




Ms. Blanca S. Bayo  
January 17, 1995  
Page 2

- 550-94 6. Prepared Direct Testimony of D. M. Mestas, Jr. regarding option payment from Polk Power Partners, L.P.

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

Thank you for your assistance in connection with this matter.

Sincerely,



James D. Beasley

JDB/pp  
Enclosures

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

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DOCKET NO. 950001-EI  
TAMPA ELECTRIC COMPANY  
SUBMITTED FOR FILING 1/17/95  
(PROJECTION)

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6  
7 BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION  
8 PREPARED DIRECT TESTIMONY  
9 OF  
10 GEORGE A. KESELOWSKY  
11  
12

13 Q. Will you please state your name, business address, and employer?  
14

15 A. My name is George A. Keselowsky and my business address is Post Office Box  
16 111, Tampa, Florida 33601. I am employed by Tampa Electric Company.  
17

18 Q. Please furnish us with a brief outline of your educational background and business  
19 experience.  
20

21 A. I graduated in 1972 from the University of South Florida with a Bachelor of  
22 Science Degree in Mechanical Engineering. I have been employed by Tampa  
23 Electric Company in various engineering positions since that time. My current  
24 position is that of Senior Consulting Engineer - Production Engineering.  
25

DOCUMENT NUMBER-DATE

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- 1 Q. What are your current responsibilities?  
2
- 3 A. I am responsible for testing and reporting unit performance, and the compilation  
4 and reporting of generation statistics.  
5
- 6 Q. What is the purpose of your testimony?  
7
- 8 A. My testimony presents Tampa Electric Company's methodology for determining  
9 the various factors required to compute the Generating Performance Incentive  
10 Factor (GPIF) as ordered by this Commission.  
11
- 12 Q. Have you prepared an exhibit showing the various elements of the derivation of  
13 Tampa Electric Company's GPIF formula?  
14
- 15 A. Yes, I have prepared, under my direction and supervision, an exhibit entitled  
16 "Tampa Electric Company, Generating Performance Incentive Factor" April 1995  
17 - September 1995, consisting of 35 pages filed with the Commission on  
18 January 17, 1994. (Have identified as Exhibit GAK-2). The data prepared within  
19 this exhibit is consistent with the GPIF Implementation Manual previously  
20 approved by this Commission.  
21
- 22 Q. Which generating units on Tampa Electric Company's system are included in the  
23 determination of your GPIF?  
24
- 25 A. Six of our coal-fired units are included. These are: Gannon Station Units 5 and

1 6; and Big Bend Station Units 1, 2, 3, and 4.  
2  
3 Q. Will you describe how Tampa Electric Company evolved the various factors  
4 associated with the GPIF as ordered by this Commission?  
5  
6 A. Yes. First, the two factors to be used, as set forth by the Commission Staff, are  
7 unit availability and station heat rate.  
8  
9 Q. Please continue.  
10  
11 A. A target was established for equivalent availability for each unit considered for  
12 this period. Heat rate targets were also established for each unit. A range of  
13 potential improvement and degradation was determined for each of these  
14 parameters.  
15  
16 Q. Would you describe how the target values for unit availability were determined?  
17  
18 A. Yes I will. The Planned Outage Factor (POF) and the Equivalent Unplanned  
19 Outage Factor (EUOF) were subtracted from 100% to determine the target  
20 equivalent availability. The factors for each of the 6 units included within the  
21 GPIF are shown on page 5 of my exhibit. For example, the projected EUOF for  
22 Gannon Unit Six is 14.1%. The Planned Outage Factor for this same unit during  
23 this period is 5.5%. Therefore, the target equivalent availability for this unit  
24 equals:  
25

1                     $100\% - [(14.1\% + 5.5\%)] = 80.4\%$

2  
3                    This is shown on page 4, column 3 of my exhibit.

4  
5                    Q.     How was the potential for unit availability improvement determined?

6  
7                    A.     Maximum equivalent availability is arrived at using the following formula.

8                    Equivalent Availability Maximum

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

10  
11                   The factors included in the above equations are the same factors that determine  
12                   target equivalent availability. To attain the maximum incentive points, a 20%  
13                   reduction in Forced Outage and Maintenance Outage Factors (EUOF), plus a 5%  
14                   reduction in the Planned Outage Factor (POF) will be necessary. Continuing with  
15                   our example on Gannon Unit Six:

16  
17                    $EAF_{MAX} = 100\% - [0.8 (14.1\%) + 0.95 (5.5\%)] = 83.5\%$

18  
19                   This is shown on page 4, column 4 of my exhibit.

20  
21                   Q.     How was the potential for unit availability degradation determined?

22  
23                   A.     The potential for unit availability degradation is significantly greater than is the  
24                   potential for unit availability improvement. This concept was discussed  
25                   extensively and approved in earlier hearings before this Commission. Tampa

1 Electric Company's approach to incorporating this skewed effect into the unit  
2 availability tables is to use a potential degradation range equal to twice the  
3 potential improvement. Consequently, minimum equivalent availability is arrived  
4 at via the following formula:

5  
6 Equivalent Availability Minimum

7 
$$EAF_{MIN} = 100\% - [1.4 (EUOF_T) + 1.10 (POF_T)]$$

8  
9 Again, continuing with our example of Gannon Unit Five,

10  
11 
$$EAF_{MIN} = 100\% - [1.4 (14.1\%) + 1.1 (5.5\%)] = 74.2\%$$

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

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

18  
19 A. Our planned outages for this period are shown on page 19 of my exhibit. A  
20 Critical Path Method (C.P.M.) for each outage greater than two weeks which  
21 affects GPIF is included in my exhibit. For example, Big Bend Unit 3 is  
22 scheduled for a major unit inspection from April 5 to May 16, 1995. There are  
23 1008 planned outage hours scheduled for the summer 1995 period, and a total of  
24 4391 hours during this 6 month period. Consequently, the Planned Outage Factor  
25 for Unit 3 at Big Bend is  $1008/4391 \times 100\%$  or 23.0%. This factor is shown on

1 pages 5 and 17 of my exhibit. Big Bend Units 2 and 4, as well as Gannon Unit  
2 5 have planned outage factors of zero. Gannon Unit 6 has a planned outage  
3 factor of 5.5% and Big Bend Unit 1 has a planned outage factor of 1.1%.

4  
5 Q. How did you arrive at the Forced Outage and Maintenance Outage Factors on  
6 each unit?

7  
8 A. Graphs of both of these factors (adjusted for planned outages) vs. time are  
9 prepared. Both monthly data and 12 month moving average data are recorded.  
10 For each unit the most current, September 1994, 12 month ending value was used  
11 as a basis for the projection. This value was adjusted up or down by analyzing  
12 trends and causes for recent forced and maintenance outages. All projected  
13 factors are based upon historical unit performance, engineering judgment, time  
14 since last planned outage, and equipment performance resulting in a forced or  
15 maintenance outage. These target factors are additive and result in a EUOF of  
16 11.3% for Gannon Unit Five. The Equivalent Unplanned Outage Factor (EUOF)  
17 for Gannon Unit Five is verified by the data shown on page 13, lines 3, 5, 10 and  
18 11 of my exhibit and calculated using the formula:

19  
20 
$$\text{EUOF} = \frac{(\text{FOH} + \text{EFOH} + \text{MOH} + \text{EMOH})}{\text{Period Hours}} \times 100$$

21  
22 or

23 
$$\text{EUOF} = \frac{(439 + 57)}{4391} \times 100 = 11.3\%$$

24  
25 Relative to Gannon Unit Five, the EUOF of 11.3% forms the basis of our



1 Equivalent Availability target development as shown on sheets 4 and 5 of my  
2 exhibit.

3  
4 Q. Please continue with your review of the remaining units.

5  
6 Big Bend Unit One

7 A. The projected EUOF for this unit is 15.5% during this period. This unit will  
8 have a planned outage which is scheduled to end early in this period, and the  
9 Planned Outage Factor is 1.1%. This results in a target equivalent availability of  
10 83.4% for the period.

11  
12 Big Bend Unit Two

13 The projected EUOF for this unit is 11.9%. This unit will not have a planned  
14 outage during this period and the Planned Outage Factor is 0.0%. Therefore, the  
15 target equivalent availability for this unit is 88.1%.

16  
17 Big Bend Unit Three

18 The projected EUOF for this unit is 9.9% during this period. This unit will have  
19 a planned outage this period and the Planned Outage Factor is 23.0%. Therefore,  
20 the target equivalent availability for this unit is 67.1%.

21  
22 Big Bend Unit Four

23 The projected EUOF for this unit is 9.4%. This unit will not have a planned  
24 outage during this period and the Planned Outage Factor is 0.0%. This results  
25 in a target equivalent availability of 90.6% for the period.

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Gannon Unit Five

The projected EUOF for this unit is 11.3%. This unit will not have a planned outage during this period and the Planned Outage Factor is 0.0%. Therefore, the target equivalent availability for this unit is 88.7%.

Gannon Unit Six

The projected EUOF for this unit is 14.1%. This unit will have a planned outage during this period and the Planned Outage Factor is 5.5%. Therefore, the target equivalent availability for this unit is 80.4%.

Q. Would you summarize your testimony regarding Equivalent Availability Factor (EAF), Equivalent Unplanned Outage Factor (EUOF) and Equivalent Unplanned Outage Rate (EUOR)?

A. Yes I will. Please note on page 5 that the GPIF system weighted Equivalent Availability Factor (EAF) equals 82.3%. This target compares very favorably to previous GPIF periods in that it is better than three of the five previous periods, as well as the five period average EAF. The system weighted Equivalent Unplanned Outage Rate (EUOR) equals 12.9%. This target is also worthy of note. It is within 0.4% of being better or equal to the EUOR of four of the five previous periods. These targets represent an outstanding level of performance for our system.

- 1 Q. As you graph and monitor Forced and Maintenance Outage Factors, why are they  
2 adjusted for planned outage hours?  
3
- 4 A. This adjustment makes these factors more accurate and comparable. Obviously,  
5 a unit in a planned outage stage or reserve shutdown stage will not incur a forced  
6 or maintenance outage. Since our units are usually base loaded, reserve shutdown  
7 is generally not a factor. To demonstrate the effects of a planned outage, note the  
8 EUOR and EUOF for Gannon Unit Six on page 14. During the month of April  
9 and for June through September, EUOF and EUOR are equal. This is due to the  
10 fact that no planned outages are scheduled during these months. During the  
11 month of May, EUOR exceeds EUOF. The reason for this difference is the  
12 scheduling of a planned outage. The adjusted factors apply to the period hours  
13 after planned outage hours have been extracted.  
14
- 15 Q. Does this mean that both rate and factor data are used in calculated data?  
16
- 17 A. Yes it does. Rates provide a proper and accurate method of arriving at the unit  
18 parameters. These are then converted to factors since they are directly additive.  
19 That is, the Forced Outage Factor + Maintenance Outage Factor + Planned  
20 Outage Factor + Equivalent Availability = 100%. Since factors are additive,  
21 they are easier to work with and to understand.  
22

1 Q. You previously stated that you had developed a CPM for your unit outages. How  
2 do you use the CPM in conjunction with your planned outages?  
3

4 A. The CPM's included in this exhibit are preliminary and include only the major  
5 work activities we expect to accomplish during the planned outage. Planned  
6 outages are very complex and are anticipated months in advance. The actual  
7 CPM's utilized in the execution of the planned outage are detailed for all major  
8 and minor work activities.  
9

10 Since it is important to the company and beneficial to our Customers to control  
11 outage length, we have implemented a computerized outage management system.  
12 Essentially, this tool enables management to monitor outage progress, measure  
13 activity results against previously established milestones, and verify timely  
14 execution of all critical path events. This results in the shortest outage time  
15 possible and the maximum utilization of all resources. Any reduction in planned  
16 outage length directly improves unit equivalent availability.  
17

18 Q. Has Tampa Electric Company prepared the necessary heat rate data required for  
19 the determination of the Generating Performance Incentive Factor?  
20

21 A. Yes. Target heat rates as well as ranges of potential operation have been  
22 developed as required.  
23

- 1 Q. On what basis were the heat rate targets determined?  
2
- 3 A. Average net operating heat rates are determined and reported on a unit basis.  
4 Therefore, all heat rate data pertaining to the GPIF is calculated on this basis.  
5
- 6 Q. How were these targets determined?  
7
- 8 A. Net heat rate data for the three most recent winter periods, along with the  
9 PROMOD III program, formed the basis of our target development. Projections  
10 of unit performance were made with the aid of PROMOD III. The historical data  
11 and the target values are analyzed to assure applicability to current conditions of  
12 operation. This provides assurance that any periods of abnormal operations, or  
13 equipment modifications having material effect on heat rate can be taken into  
14 consideration.  
15
- 16 Q. Have you developed the heat rate targets in accordance with GPIF guidelines?  
17
- 18 A. Yes.  
19
- 20 Q. How were the ranges of heat rate improvement and heat rate degradation  
21 determined?  
22
- 23 A. The ranges were determined through analysis of historical net heat rate and net  
24 output factor data. This is the same data from which the net heat rate vs. net  
25 output factor curves have been developed for each station. This information is

1 shown on pages 27 through 32 of my exhibit.  
2

3 Q. Would you elaborate on the analysis used in the determination of the ranges?  
4

5 A. The net heat rate vs. net output factor curves are the results of a first order curve  
6 fit to historical data. The standard error of the estimate of this data was  
7 determined, and a factor was applied to produce a band of potential improvement  
8 and degradation. Both the curve fit and the standard error of the estimate were  
9 performed by computer program for each station. These curves are also used in  
10 post period adjustments to actual heat rates to account for unanticipated changes  
11 in unit dispatch.  
12

13 Q. Can you summarize your heat rate projection for the summer 1995 period?  
14

15 A. Yes. The heat rate target for Big Bend Unit 1 is 10,137 Btu/Net kwh. The range  
16 about this value, to allow for potential improvement or degradation, is  
17  $\pm 314$  Btu/Net kwh. The heat rate target for Big Bend Unit 2 is 10,055 Btu/Net  
18 kwh with a range of  $\pm 353$  Btu/Net kwh. The heat rate target for Big Bend  
19 Unit 3 is 9,607 Btu/Net kwh, with a range of  $\pm 320$  Btu/Net kwh. The heat rate  
20 target for Big Bend Unit 4 is 10,036 Btu/Net kwh with a range of  $\pm 279$  Btu/Net  
21 kwh. The heat rate target for Gannon Unit 5 is 10,052 Btu/Net kwh with a range  
22 of  $\pm 326$  Btu/Net kwh. The heat rate target for Gannon Unit 6 is 10,335 Btu/Net  
23 kwh with a range of  $\pm 412$  Btu/Net kwh. A zone of tolerance of  $\pm 75$  Btu/Net  
24 kwh is included within the range for each target. This is shown on page 4, and  
25 pages 7 through 12 of my exhibit.

1 Q. Do you feel that the heat rate targets and ranges in your projection meet the  
2 criteria of the GPIF and the philosophy of this Commission?

3  
4 A. Yes I do.

5  
6 Q. After determining the target values and ranges for average net operating heat rate  
7 and equivalent availability, what is the next step in the GPIF?

8  
9 A. The next step is to calculate the savings and weighing factor to be used for both  
10 average net operating heat rate and equivalent availability. This is shown on pages  
11 7 through 12. Our PROMOD III cost simulation model was used to calculate the  
12 total system fuel cost if all units operated at target heat rate and target availability  
13 for the period. This total system fuel cost of \$136,669,300 is shown on page 6  
14 column 2.

15  
16 The PROMOD III output was then used to calculate total system fuel cost with  
17 each unit individually operating at maximum improvement in equivalent  
18 availability and each station operating at maximum improvement in average net  
19 operating heat rate. The respective savings are shown on page 6 column 4. After  
20 all the individual savings are calculated, column 4 is totaled: \$5,848,700 reflects  
21 the savings if all units operated at maximum improvement. A weighting factor  
22 for each parameter is then calculated by dividing individual savings by the total.  
23 For Big Bend Unit One, the weighting factor for equivalent availability is 8.22 %  
24 as shown in the right hand column on page 6. Pages 7 thru 12 show the point  
25 table, the Fuel Savings/(Loss), and the equivalent availability or heat rate value.



1 The individual weighting factor is also shown. For example, on Big Bend Unit  
2 One, page 9, if the unit operates at 86.5% equivalent availability, fuel savings  
3 would equal \$480,700 and 10 equivalent availability points would be awarded.  
4

5 The Generating Performance Incentive Factor Reward/Penalty Table on page 2  
6 is a summary of the tables on pages 7 through 12. The left hand column of this  
7 document shows the Tampa Electric Company's incentive points. The center  
8 column shows the total fuel savings and is the same amount as shown on page 6,  
9 column 4, \$5,848,700. The right hand column of page 2 is the estimated reward  
10 or penalty based upon performance.  
11

12 Q. How were the maximum allowed incentive dollars determined?  
13

14 A. Referring to my exhibit on page 3, line 8, the estimated average common equity  
15 for the period April 1995 - September 1995 is shown to be \$993,746,714. This  
16 produces the maximum allowed jurisdictional incentive dollars of \$2,015,317  
17 shown on line 15.  
18

19 Q. Is there any other constraint set forth by this Commission regarding the magnitude  
20 of incentive dollars?  
21

22 A. Yes. Incentive dollars are not to exceed fifty percent of fuel savings. Page 2 of  
23 my exhibit demonstrates that this constraint is met.  
24  
25



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

2

3 A. Yes. To the best of my knowledge and understanding, Tampa Electric Company  
4 has fully complied with the Commission's directions, philosophy, and  
5 methodology in our determination of Generating Performance Incentive Factor.  
6 The GPIF for Tampa Electric Company is expressed by the following formula for  
7 calculating Generating Performance Incentive Points (GPIP):

8 
$$\text{GPIP} = ( 0.0285 \text{ EAP}_{\text{GN5}} + 0.0611 \text{ EAP}_{\text{GN6}}$$

9 
$$+ 0.0822 \text{ EAP}_{\text{BB1}} + 0.0766 \text{ EAP}_{\text{BB2}}$$

10 
$$+ 0.0785 \text{ EAP}_{\text{BB3}} + 0.0689 \text{ EAP}_{\text{BB4}}$$

11 
$$+ 0.0570 \text{ HRP}_{\text{GN5}} + 0.1120 \text{ HRP}_{\text{GN6}}$$

12 
$$+ 0.1096 \text{ HRP}_{\text{BB1}} + 0.1282 \text{ HRP}_{\text{BB2}}$$

13 
$$+ 0.0902 \text{ HRP}_{\text{BB3}} + 0.1072 \text{ HRP}_{\text{BB4}}$$

14 Where:

15 GPIF = Generating performance incentive points.

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

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

20

21 Q. Have you prepared a document summarizing the GPIF targets for the April 1995  
22 - September 1995 period?

23

24 A. Yes. The availability and heat rate targets for each unit are listed on attachment  
25 "A" to this testimony entitled "Tampa Electric Company GPIF Targets, April 1,

1 1995 - September 30, 1995".  
2  
3 Q. Do you wish to sponsor an exhibit consisting of estimated unit performance data  
4 supporting the fuel adjustment?  
5  
6 A. Yes I do. (Have identified as Exhibit GAK-3).  
7  
8 Q. Briefly describe this exhibit.  
9  
10 A. This exhibit consists of 22 pages. This data is Tampa Electric Company's  
11 estimate of the Unit Performance Data and Unit Outage Data for the April 1995  
12 - September 1995 period.  
13  
14 Q. Does this conclude your testimony?  
15  
16 A. Yes.

ATTACHMENT "A"  
January 17, 1995

TAMPA ELECTRIC COMPANY  
GPIF TARGETS  
April 1, 1995 - September 30, 1995

Unit	Availability			Heat Rate
	EAF	POF	EUOF	
Gannon 5	88.7	0	11.3 <sup>1/</sup>	10,052 <sup>1/</sup>
Gannon 6	80.4	5.5	14.1 <sup>2/</sup>	10,335 <sup>2/</sup>
Big Bend 1	83.4	1.1	15.5 <sup>3/</sup>	10,137 <sup>3/</sup>
Big Bend 2	88.1	0	11.9 <sup>4/</sup>	10,055 <sup>4/</sup>
Big Bend 3	67.1	23.0	9.9 <sup>5/</sup>	9,607 <sup>5/</sup>
Big Bend 4	90.6	0	9.4 <sup>6/</sup>	10,036 <sup>6/</sup>

<sup>1/</sup> Original Sheet 6.401.95E, Pg. 13

<sup>2/</sup> Original Sheet 6.401.95E, Pg. 14

<sup>3/</sup> Original Sheet 6.401.95E, Pg. 15

<sup>4/</sup> Original Sheet 6.401.95E, Pg. 16

<sup>5/</sup> Original Sheet 6.401.95E, Pg. 17

<sup>6/</sup> Original Sheet 6.401.95E, Pg. 18

TAMPA ELECTRIC COMPANY  
GENERATING PERFORMANCE INCENTIVE FACTOR  
OCTOBER 1995 - MARCH 1995  
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TAMPA ELECTRIC COMPANY  
 GENERATING PERFORMANCE INCENTIVE POINTS TABLE  
 REWARD/PENALTY TABLE - ESTIMATED  
 APRIL 1995 - SEPTEMBER 1995

<u>GENERATING PERFORMANCE INCENTIVE POINTS (GPIP)</u>	<u>FUEL SAVINGS/(LOSS) (\$000)</u>	<u>GENERATING PERFORMANCE INCENTIVE FACTOR (\$000)</u>
+10	5,848.7	2,015.3
+ 9	5,263.8	1,813.8
+ 8	4,679.0	1,612.3
+ 7	4,094.1	1,410.7
+ 6	3,509.2	1,209.2
+ 5	2,924.4	1,007.7
+ 4	2,339.5	806.1
+ 3	1,754.6	604.6
+ 2	1,169.7	403.1
+ 1	584.9	201.5
0	0.0	0.0
- 1	(843.6)	(201.5)
- 2	(1,687.3)	(403.1)
- 3	(2,530.9)	(604.6)
- 4	(3,374.6)	(806.1)
- 5	(4,218.2)	(1,007.7)
- 6	(5,061.8)	(1,209.2)
- 7	(5,905.5)	(1,410.7)
- 8	(6,749.1)	(1,612.3)
- 9	(7,592.8)	(1,813.8)
-10	(8,436.4)	(2,015.3)

**TAMPA ELECTRIC COMPANY  
 GENERATING PERFORMANCE INCENTIVE FACTOR  
 CALCULATION OF MAXIMUM ALLOWED INCENTIVE DOLLARS  
 ESTIMATED  
 APRIL 1995 – SEPTEMBER 1995**

Line 1	Beginning of period balance of common equity End of month common equity:	\$994,044,000
Line 2	Month of April 1995	\$965,366,000
Line 3	Month of May 1995	\$974,497,000
Line 4	Month of June 1995	\$983,714,000
Line 5	Month of July 1995	\$1,003,349,000
Line 6	Month of August 1995	\$1,012,839,000
Line 7	Month of September 1995	\$1,022,418,000
Line 8	(summation of line 1 through 7 divided by 7)	\$993,746,714
Line 9	25 Basis points	0.0025
Line 10	Revenue expansion factor	61.3738%
Line 11	Maximum allowed incentive Dollars (Line 8 times Line 9 divided by line 10 times 0.5)	\$2,023,964
Line 12	Jurisdictional Sales	7,635,330 MWH
Line 13	Total Sales	7,668,089 MWH
Line 14	Jurisdictional Separation Factor (Line 12 divided by line 13)	99.57%
Line 15	Maximum Allowed Jurisdictional Incentive Dollars (Line 11 times Line 14)	\$2,015,317

TAMPA ELECTRIC COMPANY  
GPIF TARGET AND RANGE SUMMARY  
APRIL 1995 - SEPTEMBER 1995

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	2.85%	88.7	91.0	84.2	166.7	(320.5)
GANNON 6	6.11%	80.4	83.5	74.2	357.2	(678.8)
BIG BEND 1	8.22%	83.4	86.5	77.0	480.7	(1,023.1)
BIG BEND 2	7.66%	88.1	90.5	83.3	447.8	(899.2)
BIG BEND 3	7.85%	67.1	70.2	60.7	459.4	(1,247.2)
BIG BEND 4	6.89%	90.6	92.5	86.8	403.0	(733.7)
GPIF SYSTEM	39.58%				2,314.8	(4,902.5)

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	5.70%	10052	91.0	9726	10378	333.6	(333.6)
GANNON 6	11.20%	10335	84.3	9923	10747	654.8	(654.8)
BIG BEND 1	10.96%	10137	93.8	9823	10451	640.9	(640.9)
BIG BEND 2	12.82%	10055	94.3	9702	10408	749.9	(749.9)
BIG BEND 3	9.02%	9607	95.6	9287	9927	527.7	(527.7)
BIG BEND 4	10.72%	10036	95.4	9757	10315	627.0	(627.0)
GPIF SYSTEM	60.42%					3,533.9	(3,533.9)

TAMPA ELECTRIC COMPANY  
COMPARISON OF QPF TARGETS VS. PRIOR PERIOD ACTUAL PERFORMANCE

AVAILABILITY

PLANT/UNIT	TARGET WEIGHTING FACTOR	NORMALIZED WEIGHTING FACTOR	TARGET PERIOD		ACTUAL PERFORMANCE		ACTUAL PERFORMANCE		ACTUAL PERFORMANCE		ACTUAL PERFORMANCE									
			APR 91 - SEP 91	POP	EUOP	EUOSR	APR 91 - SEP 91	POP	EUOP	EUOSR	OCT 91 - MAR 92	POP	EUOP	EUOSR	APR 92 - SEP 92	POP	EUOP	EUOSR		
BIG BEND 1	8.22%	20.8	1.1	15.5	15.7	30.8	10.3	14.8	0.0	14.5	14.5	0.0	14.2	14.2	8.5	19.6	21.4	20.0	11.8	14.8
BIG BEND 2	7.86%	18.4	0.0	11.9	11.8	0.0	20.8	20.8	0.0	7.3	7.3	3.8	8.5	8.5	8.8	10.4	10.8	0.0	11.7	11.7
BIG BEND 3	7.86%	18.8	25.0	8.9	12.8	0.0	9.1	8.1	6.5	6.1	6.5	11.8	12.8	14.5	18.7	19.1	23.5	0.0	11.0	11.0
BIG BEND 4	6.80%	17.4	0.0	9.4	9.4	0.0	7.4	7.4	6.0	6.3	6.0	15.3	15.3	15.3	0.0	8.8	8.8	0.0	11.9	11.9
GANNON 5	2.86%	7.2	0.0	11.3	11.3	2.7	11.9	12.2	4.1	8.7	8.9	29.8	10.8	15.5	0.0	8.8	8.8	0.0	10.5	10.5
GANNON 6	8.11%	15.4	5.5	15.1	14.8	0.0	9.3	9.3	29.3	8.0	17.2	14.0	15.3	19.0	20.1	8.2	8.9	0.6	14.9	15.0
QPF SYSTEM WGTD AVG.	36.58%	100.0	8.6	12.1	12.8	8.5	11.8	12.5	7.0	8.3	10.1	7.4	13.1	14.2	10.8	12.5	14.2	4.2	12.0	12.7
QPF SYSTEM WEIGHTED EQUIVALENT AVAILABILITY				82.3			81.8		84.7		79.5		79.7		83.7		83.7			

6 PERIOD AVERAGE

EOE	EUOE	EUOSR
7.2	11.5	12.7

AVERAGE NET OPERATING HEAT RATE (Btu/kWh)

PLANT/UNIT	TARGET WEIGHTING FACTOR	NORMALIZED WEIGHTING FACTOR	HEAT RATE TARGET		ADJUSTED PRIOR HEAT RATE		ADJUSTED PRIOR HEAT RATE	
			ACTUAL	ACTUAL - SEP 84	ACTUAL	ACTUAL - SEP 88	ACTUAL	ACTUAL - SEP 88
GANNON 5	8.70%	8.4	10082	10086	10084	10048	10048	10048
GANNON 6	11.20%	18.5	10236	10438	10208	10178	10178	10178
BIG BEND 1	10.80%	15.1	10137	10227	9958	10178	10178	10178
BIG BEND 2	12.80%	21.2	10286	10156	9880	10219	10219	10219
BIG BEND 3	8.02%	14.8	9627	8758	9482	9620	9620	9620
BIG BEND 4	10.71%	17.7	10298	10074	8734	8954	8954	8954
QPF SYSTEM WEIGHTED AVERAGE H.R. (Btu/kWh)	80.42%	100.0	10051	10101	9874	9874	9874	9874



TAMPA ELECTRIC COMPANY  
DERIVATION OF WEIGHTING FACTORS  
APRIL 1995 - SEPTEMBER 1995  
PRODUCTION COSTING SIMULATION  
FUEL COST (\$000)

UNIT PERFORMANCE INDICATOR	AT TARGET (1)	IMPROVEMENT (2)	SAVINGS (3)	WEIGHTING FACTOR (% OF SAVINGS)
<b>EQUIVALENT AVAILABILITY</b>				
EA <sub>1</sub> GANNON 5	136669.3	136502.6	166.7	2.85%
EA <sub>2</sub> GANNON 6	136669.3	136312.1	357.2	6.11%
EA <sub>3</sub> BIG BEND 1	136669.3	136188.6	480.7	8.22%
EA <sub>4</sub> BIG BEND 2	136669.3	136221.5	447.8	7.66%
EA <sub>5</sub> BIG BEND 3	136669.3	136209.9	459.4	7.85%
EA <sub>6</sub> BIG BEND 4	136669.3	136266.3	403.0	6.89%
<b>HEAT RATE</b>				
AHR <sub>1</sub> GANNON 5	136669.3	136335.7	333.6	5.70%
AHR <sub>2</sub> GANNON 6	136669.3	136014.5	654.8	11.20%
AHR <sub>3</sub> BIG BEND 1	136669.3	136028.4	640.9	10.96%
AHR <sub>4</sub> BIG BEND 2	136669.3	135919.4	749.9	12.82%
AHR <sub>5</sub> BIG BEND 3	136669.3	136141.6	527.7	9.02%
AHR <sub>6</sub> BIG BEND 4	136669.3	136042.3	627.0	10.72%
<b>TOTAL SAVINGS</b>			5848.7	100.00%

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

(2) All other unit performance indicators at target.

(3) Expressed in replacement energy cost.

TAMPA ELECTRIC COMPANY  
GENERATING PERFORMANCE INCENTIVE POINTS TABLE  
APRIL 1995 - SEPTEMBER 1995  
GANNON 5

<u>EQUIVALENT AVAILABILITY POINTS</u>	<u>FUEL SAVINGS/(LOSS) (\$1000)</u>	<u>ADJUSTED ACTUAL EQUIVALENT AVAILABILITY</u>	<u>AVERAGE HEAT RATE POINTS</u>	<u>FUEL SAVINGS/(LOSS) (\$1000)</u>	<u>ADJUSTED ACTUAL AVERAGE HEAT RATE</u>
+10	166.7	91.0	+10	333.6	9726
+9	150.0	90.8	+9	300.2	9751
+8	133.4	90.5	+8	266.9	9776
+7	116.7	90.3	+7	233.5	9801
+6	100.0	90.1	+6	200.2	9826
+5	83.4	89.9	+5	166.8	9852
+4	66.7	89.6	+4	133.4	9877
+3	50.0	89.4	+3	100.1	9902
+2	33.3	89.2	+2	66.7	9927
+1	16.7	88.9	+1	33.4	9952
				0.0	9977
0	0.0	88.7	0	0.0	10052
				0.0	10127
-1	(32.1)	88.5	-1	(33.4)	10152
-2	(64.1)	87.8	-2	(66.7)	10177
-3	(96.1)	87.4	-3	(100.1)	10202
-4	(128.2)	86.9	-4	(133.4)	10227
-5	(160.3)	86.5	-5	(166.8)	10253
-6	(192.3)	86.0	-6	(200.2)	10278
-7	(224.4)	85.6	-7	(233.5)	10303
-8	(256.4)	85.1	-8	(266.9)	10328
-9	(288.5)	84.7	-9	(300.2)	10353
-10	(320.5)	84.2	-10	(333.6)	10378

Weighting Factor = 2.85%

Weighting Factor = 5.70%

TAMPA ELECTRIC COMPANY  
GENERATING PERFORMANCE INCENTIVE POINTS TABLE  
APRIL 1995 - SEPTEMBER 1995  
GANNON 6

<u>EQUIVALENT AVAILABILITY POINTS</u>	<u>FUEL SAVINGS/(LOSS) (\$x1000)</u>	<u>ADJUSTED ACTUAL EQUIVALENT AVAILABILITY</u>	<u>AVERAGE HEAT RATE POINTS</u>	<u>FUEL SAVINGS/(LOSS) (\$x1000)</u>	<u>ADJUSTED ACTUAL AVERAGE HEAT RATE</u>
+10	357.2	83.5	+10	654.8	9923
+9	321.5	83.2	+9	589.3	9957
+8	285.8	82.9	+8	523.8	9990
+7	250.0	82.6	+7	458.4	10024
+6	214.3	82.3	+6	392.9	10058
+5	178.6	82.0	+5	327.4	10092
+4	142.9	81.6	+4	261.9	10125
+3	107.2	81.3	+3	196.4	10159
+2	71.4	81.0	+2	131.0	10193
+1	35.7	80.7	+1	65.5	10226
0	0.0	80.4	0	0.0	10260
				0.0	10335
					10410
-1	(67.9)	79.8	-1	(65.5)	10444
-2	(135.8)	79.2	-2	(131.0)	10477
-3	(203.6)	78.5	-3	(196.4)	10511
-4	(271.5)	77.9	-4	(261.9)	10545
-5	(339.4)	77.3	-5	(327.4)	10579
-6	(407.3)	76.7	-6	(392.9)	10612
-7	(475.2)	76.1	-7	(458.4)	10646
-8	(543.0)	75.4	-8	(523.8)	10680
-9	(610.9)	74.8	-9	(589.3)	10713
-10	(678.8)	74.2	-10	(654.8)	10747

Weighting Factor = 6.11%

Weighting Factor = 11.20%

TAMPA ELECTRIC COMPANY  
GENERATING PERFORMANCE INCENTIVE POINTS TABLE  
APRIL 1995 - SEPTEMBER 1995  
BIG BEND 1

<u>EQUIVALENT AVAILABILITY POINTS</u>	<u>FUEL SAVINGS/(LOSS) (\$1000)</u>	<u>ADJUSTED ACTUAL EQUIVALENT AVAILABILITY</u>	<u>AVERAGE HEAT RATE POINTS</u>	<u>FUEL SAVINGS/(LOSS) (\$1000)</u>	<u>ADJUSTED ACTUAL AVERAGE HEAT RATE</u>
+10	480.7	86.5	+10	640.9	9823
+9	432.6	86.2	+9	576.8	9847
+8	384.6	85.9	+8	512.7	9871
+7	336.5	85.6	+7	448.6	9895
+6	288.4	85.3	+6	384.5	9919
+5	240.4	85.0	+5	320.5	9943
+4	192.3	84.6	+4	256.4	9966
+3	144.2	84.3	+3	192.3	9990
+2	96.1	84.0	+2	128.2	10014
+1	48.1	83.7	+1	64.1	10038
				0.0	10062
0	0.0	83.4	0	0.0	10137
				0.0	10212
-1	(102.3)	82.8	-1	(64.1)	10236
-2	(204.6)	82.1	-2	(128.2)	10260
-3	(306.9)	81.5	-3	(192.3)	10284
-4	(409.2)	80.8	-4	(256.4)	10308
-5	(511.6)	80.2	-5	(320.5)	10332
-6	(613.9)	79.6	-6	(384.5)	10355
-7	(716.2)	78.9	-7	(448.6)	10379
-8	(818.5)	78.3	-8	(512.7)	10403
-9	(920.8)	77.6	-9	(576.8)	10427
-10	(1,023.1)	77.0	-10	(640.9)	10451

Weighting Factor =

8.22%

Weighting Factor =

10.96%

TAMPA ELECTRIC COMPANY  
GENERATING PERFORMANCE INCENTIVE POINTS TABLE  
APRIL 1995 - SEPTEMBER 1995  
BIG BEND 2

<u>EQUIVALENT AVAILABILITY POINTS</u>	<u>FUEL SAVINGS/(LOSS) (x1000)</u>	<u>ADJUSTED ACTUAL EQUIVALENT AVAILABILITY</u>	<u>AVERAGE HEAT RATE POINTS</u>	<u>FUEL SAVINGS/(LOSS) (x1000)</u>	<u>ADJUSTED ACTUAL AVERAGE HEAT RATE</u>
+10	447.8	90.5	+10	749.9	9702
+9	403.0	90.3	+9	674.9	9730
+8	358.2	90.0	+8	599.9	9758
+7	313.5	89.8	+7	524.9	9785
+6	268.7	89.5	+6	449.9	9813
+5	223.9	89.3	+5	375.0	9841
+4	179.1	89.1	+4	300.0	9869
+3	134.3	88.8	+3	225.0	9897
+2	89.6	88.6	+2	150.0	9924
+1	44.8	88.3	+1	75.0	9952
				0.0	9980
0	0.0	88.1	0	0.0	10055
				0.0	10130
-1	(89.9)	87.6	-1	(75.0)	10158
-2	(179.8)	87.1	-2	(150.0)	10186
-3	(269.8)	86.7	-3	(225.0)	10213
-4	(359.7)	86.2	-4	(300.0)	10241
-5	(449.6)	85.7	-5	(375.0)	10269
-6	(539.5)	85.2	-6	(449.9)	10297
-7	(629.4)	84.7	-7	(524.9)	10325
-8	(719.4)	84.3	-8	(599.9)	10352
-9	(809.3)	83.8	-9	(674.9)	10380
-10	(899.2)	83.3	-10	(749.9)	10408

Weighting Factor = 7.66%

Weighting Factor = 12.82%

**TAMPA ELECTRIC COMPANY**  
**GENERATING PERFORMANCE INCENTIVE POINTS TABLE**  
**APRIL 1995 - SEPTEMBER 1995**  
**BIG BEND 3**

<u>EQUIVALENT AVAILABILITY POINTS</u>	<u>FUEL SAVINGS/(LOSS) (\$1000)</u>	<u>ADJUSTED ACTUAL EQUIVALENT AVAILABILITY</u>	<u>AVERAGE HEAT RATE POINTS</u>	<u>FUEL SAVINGS/(LOSS) (\$1000)</u>	<u>ADJUSTED ACTUAL AVERAGE HEAT RATE</u>
+10	459.4	70.2	+10	527.7	9287
+9	413.5	69.9	+9	474.9	9312
+8	367.5	69.6	+8	422.2	9336
+7	321.6	69.3	+7	369.4	9361
+6	275.6	69.0	+6	316.6	9385
+5	229.7	68.6	+5	263.9	9410
+4	183.8	68.3	+4	211.1	9434
+3	137.8	68.0	+3	158.3	9459
+2	91.9	67.7	+2	105.5	9483
+1	45.9	67.4	+1	52.8	9508
				0.0	9532
0	0.0	67.1	0	0.0	9607
				0.0	9682
-1	(124.7)	66.5	-1	(52.8)	9707
-2	(249.4)	65.8	-2	(105.5)	9731
-3	(374.2)	65.2	-3	(158.3)	9756
-4	(498.9)	64.5	-4	(211.1)	9780
-5	(623.6)	63.9	-5	(263.9)	9805
-6	(748.3)	63.3	-6	(316.6)	9829
-7	(873.0)	62.6	-7	(369.4)	9854
-8	(997.8)	62.0	-8	(422.2)	9878
-9	(1,122.5)	61.3	-9	(474.9)	9903
-10	(1,247.2)	60.7	-10	(527.7)	9927

Weighting Factor = 7.85%

Weighting Factor = 9.02%

**TAMPA ELECTRIC COMPANY**  
**GENERATING PERFORMANCE INCENTIVE POINTS TABLE**  
**APRIL 1995 - SEPTEMBER 1995**  
**BIG BEND 4**

<u>EQUIVALENT AVAILABILITY POINTS</u>	<u>FUEL SAVINGS/(LOSS) (\$x1000)</u>	<u>ADJUSTED ACTUAL EQUIVALENT AVAILABILITY</u>	<u>AVERAGE HEAT RATE POINTS</u>	<u>FUEL SAVINGS/(LOSS) (\$x1000)</u>	<u>ADJUSTED ACTUAL AVERAGE HEAT RATE</u>
+10	403.0	92.5	+10	627.0	9757
+9	362.7	92.3	+9	564.3	9777
+8	322.4	92.1	+8	501.6	9798
+7	282.1	91.9	+7	438.9	9818
+6	241.8	91.7	+6	376.2	9839
+5	201.5	91.6	+5	313.5	9859
+4	161.2	91.4	+4	250.8	9879
+3	120.9	91.2	+3	188.1	9900
+2	80.6	91.0	+2	125.4	9920
+1	40.3	90.8	+1	62.7	9941
				0.0	9961
0	0.0	90.6	0	0.0	10036
				0.0	10111
-1	(73.4)	90.2	-1	(62.7)	10131
-2	(146.7)	89.8	-2	(125.4)	10152
-3	(220.1)	89.5	-3	(188.1)	10172
-4	(293.5)	89.1	-4	(250.8)	10193
-5	(366.9)	88.7	-5	(313.5)	10213
-6	(440.2)	88.3	-6	(376.2)	10233
-7	(513.6)	87.9	-7	(438.9)	10254
-8	(587.0)	87.6	-8	(501.6)	10274
-9	(660.3)	87.2	-9	(564.3)	10295
-10	(733.7)	86.8	-10	(627.0)	10315

Weighting Factor = 0.89%

Weighting Factor = 10.72%

**TAMPA ELECTRIC COMPANY**  
**ESTIMATED UNIT PERFORMANCE DATA**  
**APRIL 1995 - SEPTEMBER 1995**

PAGE 13 OF 35

PLANT/UNIT GANNON 5	MONTH OF: APR 95	MONTH OF: MAY 95	MONTH OF: JUN 95	MONTH OF: JUL 95	MONTH OF: AUG 95	MONTH OF: SEP 95	PERIOD SUMMER 1995
1. EAF (%)	88.7	88.7	88.8	88.7	88.7	88.8	88.7
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. EUOF (%)	11.3	11.3	11.3	11.3	11.3	11.4	11.3
4. EUOR (%)	11.3	11.3	11.3	11.3	11.3	11.4	11.3
5. PH	719	744	720	744	744	720	4391
6. SH	531	609	560	550	530	504	3284
7. RSH	0	0	0	0	0	0	0
8. UH	188	135	160	194	214	216	1107
9. POH	0	0	0	0	0	0	0
10. FOH & EFOH	72	74	72	74	74	73	439
11. MOH & EMOH	9	10	9	10	10	9	57
12. OPER BTU (GBTU)	1076.593	1256.843	1166.985	1158.435	1112.887	1048.136	6819.879
13. NET GEN (MWH)	108922	126137	116012	113828	109360	104196	678455
14. ANOHR (BTU/KWH)	9884	9964	10059	10177	10176	10059	10052
15. NOF (%)	90.4	91.2	91.5	91.2	90.9	91.1	91.0
16. NSC (MW)	227	227	227	227	227	227	227

17. ANOHR EQUATION:

$$\text{ANOHR} = \text{NOF} (-18.8080) + 11763.6$$

FILED:  
 SUSPENDED:  
 EFFECTIVE: 4/01/95  
 DOCKET NO. : 950001 - EI



TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
APRIL 1995 - SEPTEMBER 1995

PLANT/UNIT GANNON 6	MONTH OF: APR 95	MONTH OF: MAY 95	MONTH OF: JUN 95	MONTH OF: JUL 95	MONTH OF: AUG 95	MONTH OF: SEP 95	PERIOD SUMMER 1995
1. EAF (%)	85.0	57.5	85.0	85.1	85.1	85.6	80.4
2. POF (%)	0.0	32.3	0.0	0.0	0.0	0.0	5.5
3. EU OF (%)	15.0	10.2	15.0	14.9	14.9	14.4	14.1
4. EU IR (%)	15.0	15.1	15.0	14.9	14.9	14.4	14.9
5. PH	719	744	720	744	744	720	4391
6. SH	604	424	609	625	618	593	3473
7. RSH	0	0	0	0	0	0	0
8. UH	115	320	111	119	126	127	918
9. POH	0	240	0	0	0	0	240
10. FOH & EFOH	91	64	91	94	94	89	523
11. MOH & EMOH	17	12	17	17	17	15	95
12. OPER BTU (GBTU)	1851.297	1396.167	1958.763	1995.822	1941.031	1812.923	10956.003
13. NET GEN (MWH)	180734	136191	189934	191850	186331	175028	1060068
14. ANOHR (BTU/KWH)	10243	10252	10313	10403	10417	10358	10335
15. NOF (%)	82.7	88.7	86.2	84.8	83.3	81.5	84.3
16. NSC (MW)	362	362	362	362	362	362	362
17. ANOHR EQUATION:	$ANOHR = NOF (-11.5980) + 11312.9$						

FILED:  
SUSPENDED:  
EFFECTIVE: 4/01/95  
DOCKET NO. : 950001 - EI

**TAMPA ELECTRIC COMPANY**  
**ESTIMATED UNIT PERFORMANCE DATA**  
**APRIL 1995 - SEPTEMBER 1995**

15 OF 35

PLANT/UNIT BIG BEND 1	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
	APR 95	MAY 95	JUN 95	JUL 95	AUG 95	SEP 95	SUMMER 1995
1. EAF (%)	78.7	84.3	84.3	84.3	84.3	84.4	83.4
2. POF (%)	6.7	0.0	0.0	0.0	0.0	0.0	1.1
3. EUOF (%)	14.6	15.7	15.7	15.7	15.7	15.6	15.5
4. EUOR (%)	15.6	15.7	15.7	15.7	15.7	15.6	15.7
5. PH	719	744	720	744	744	720	4391
6. SH	598	660	639	660	660	639	3856
7. RSH	0	0	0	0	0	0	0
8. UH	121	84	81	84	84	81	535
9. POH	48	0	0	0	0	0	48
10. FOH & EFOH	77	86	83	86	86	81	499
11. MOH & EMOH	28	31	30	31	31	31	182
12. OPER BTU (GBTU)	2288.638	2555.060	2465.847	2557.375	2553.744	2431.740	14852.404
13. NET GEN (MWH)	227804	252866	243597	250549	250190	240205	1465211
14. ANOHR (BTU/KWH)	10047	10104	10123	10207	10207	10124	10137
15. NOF (%)	94.1	94.6	94.1	93.7	93.8	92.8	93.8
16. NSC (MW)	405	405	405	405	405	405	405
17. ANOHR EQUATION:	$ANOHR = NOF (- 6.0032) + 10699.8$						

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**TAMPA ELECTRIC COMPANY**  
**ESTIMATED UNIT PERFORMANCE DATA**  
**APRIL 1995 - SEPTEMBER 1995**

PLANT/UNIT BIG BEND 2	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
	APR 95	MAY 95	JUN 95	JUL 95	AUG 95	SEP 95	SUMMER 1995
1. EAF (%)	88.0	88.2	88.1	88.2	88.2	88.1	88.1
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. EUOF (%)	12.0	11.8	11.9	11.8	11.8	11.9	11.9
4. EUOR (%)	12.0	11.8	11.9	11.8	11.8	11.9	11.9
5. PH	719	744	720	744	744	720	4391
6. SH	662	684	662	684	684	662	4038
7. RSH	0	0	0	0	0	0	0
8. UH	57	60	58	60	60	58	353
9. POH	0	0	0	0	0	0	0
10. FOH & EFOH	67	69	67	69	69	67	408
11. MOH & EMOH	19	19	19	19	19	19	114
12. OPER BTU (GBTU)	2554.717	2640.549	2559.791	2641.111	2642.535	2509.449	15543.152
13. NET GEN (MWH)	256234	264112	253938	261604	261748	248630	1546266
14. ANOHR (BTU/KWH)	9970	9998	10080	10096	10096	10093	10055
15. NOF (%)	95.3	95.1	94.5	94.2	94.3	92.5	94.3
16. NSC (MW)	406	406	406	406	406	406	406

17. ANOHR EQUATION:

$$\text{ANOHR} = \text{NOF} (-8.2016) + 10828.7$$

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 EFFECTIVE: 4/01/95  
 DOCKET NO. : 950001 - EI

**TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
APRIL 1995 - SEPTEMBER 1995**

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PLANT/UNIT BIG BEND 3	MONTH OF: APR 95	MONTH OF: MAY 95	MONTH OF: JUN 95	MONTH OF: JUL 95	MONTH OF: AUG 95	MONTH OF: SEP 95	PERIOD SUMMER 1995
1. EAF (%)	11.5	42.1	87.1	87.1	87.1	87.2	67.1
2. POF (%)	86.8	51.6	0.0	0.0	0.0	0.0	23.0
3. EUOF (%)	1.7	6.3	12.9	12.9	12.9	12.8	9.9
4. EUOR (%)	12.6	13.1	12.9	12.9	12.9	12.8	12.9
5. PH	719	744	720	744	744	720	4391
6. SH	85	325	651	673	673	656	3063
7. RSH	0	0	0	0	0	0	0
8. UH	634	419	69	71	71	64	1328
9. POH	624	384	0	0	0	0	1008
10. FOH & EFOH	9	35	70	72	72	70	328
11. MOH & EMOH	3	12	23	24	24	22	108
12. OPER BTU (GBTU)	339,223	1,273,708	2,565,837	2,682,508	2,684,314	2,551,942	12,097,532
13. NET GEN (MWH)	36013	134690	268872	278009	276198	267436	1,259,218
14. ANOHR (BTU/KWH)	9419	9457	9543	9719	9719	9542	9607
15. NOF (%)	98.5	96.4	96.0	95.4	95.4	94.8	95.6
16. NSC (MW)	430	430	430	430	430	430	430
17. ANOHR EQUATION:	$ANOHR = NOF (-19.5860) + 11479.8$						

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EFFECTIVE: 4/01/95  
DOCKET NO. : 950001 - E1

**TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
APRIL 1995 - SEPTEMBER 1995**

PAGE 18 OF 35

PLANT/UNIT BIG BEND 4	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
	APR 95	MAY 95	JUN 95	JUL 95	AUG 95	SEP 95	SUMMER 1995
1. EAF (%)	90.5	90.6	90.6	90.6	90.6	90.7	90.6
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. EUOF (%)	9.5	9.4	9.4	9.4	9.4	9.3	9.4
4. EUOR (%)	9.5	9.4	9.4	9.4	9.4	9.3	9.4
5. PH	719	744	720	744	744	720	4391
6. SH	675	697	675	697	697	675	4116
7. RSH	0	0	0	0	0	0	0
8. UH	44	47	45	47	47	45	275
9. POH	0	0	0	0	0	0	0
10. FOH & EFOH	49	51	49	51	51	48	299
11. MOH & EMOH	19	19	19	19	19	19	114
12. OPER BTU (GBTU)	2879.481	2963.986	2842.703	2946.150	2946.200	2800.486	17379.006
13. NET GEN (MWH)	290616	296844	282942	291236	291247	278786	1731671
14. ANOHR (BTU/KWH)	9908	9985	10047	10116	10116	10045	10036
15. NOF (%)	97.6	96.6	95.1	94.7	94.8	93.7	95.4
16. NSC (MW)	441	441	441	441	441	441	441

17. ANOHR EQUATION:

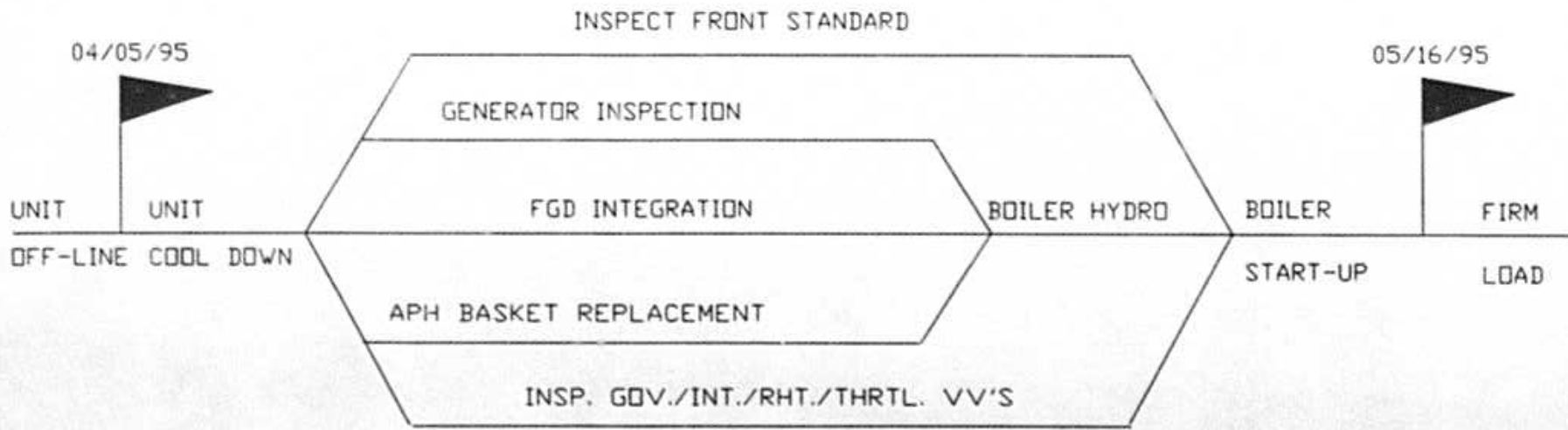
$$\text{ANOHR} = \text{NOF} (-12.7990) + 11257.0$$

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DOCKET NO. : 950001 - E1

TAMPA ELECTRIC COMPANY  
 PLANNED OUTAGE SCHEDULE (ESTIMATED)  
 GPIF UNITS  
 APRIL 1995 - SEPTEMBER 1995

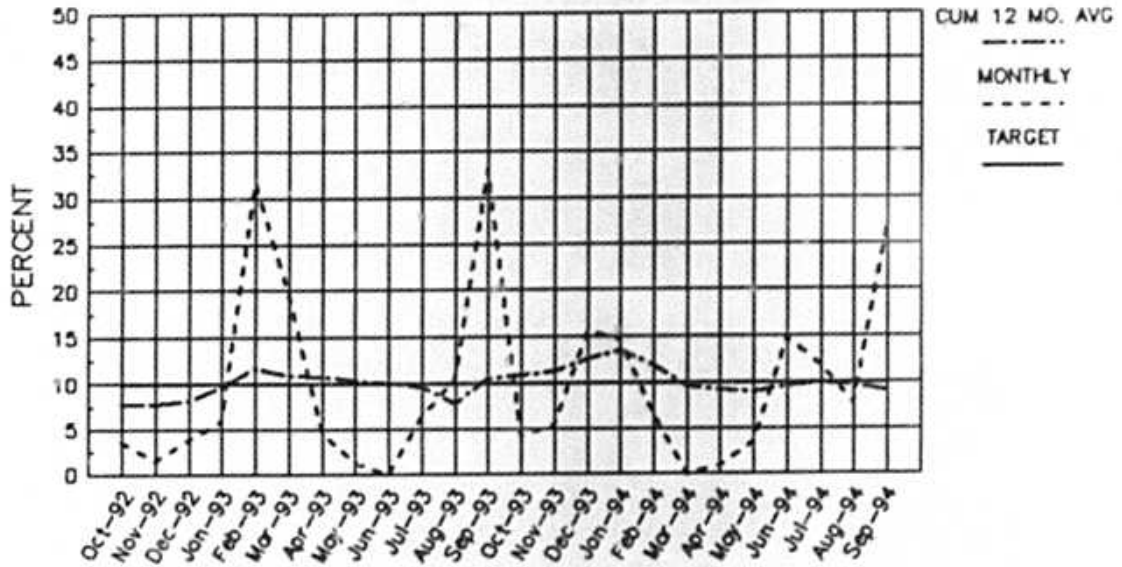
PLANT / UNIT		PLANNED OUTAGE DATES	OUTAGE REASONS
+	GANNON 6	MAY 17 - MAY 26	FUEL SYSTEM CLEAN-UP
•	BIG BEND 1	MAR 15 - APR 02	ANNUAL MAINTENANCE OUTAGE
	BIG BEND 3	APR 05 - MAY 16	FGD INTEGRATION APH BASKET REPLACEMENT GENERATOR INSPECTION INSPECT FRONT STANDARD INSPECT CT/COMB. RHT./MN. STP. VV's

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

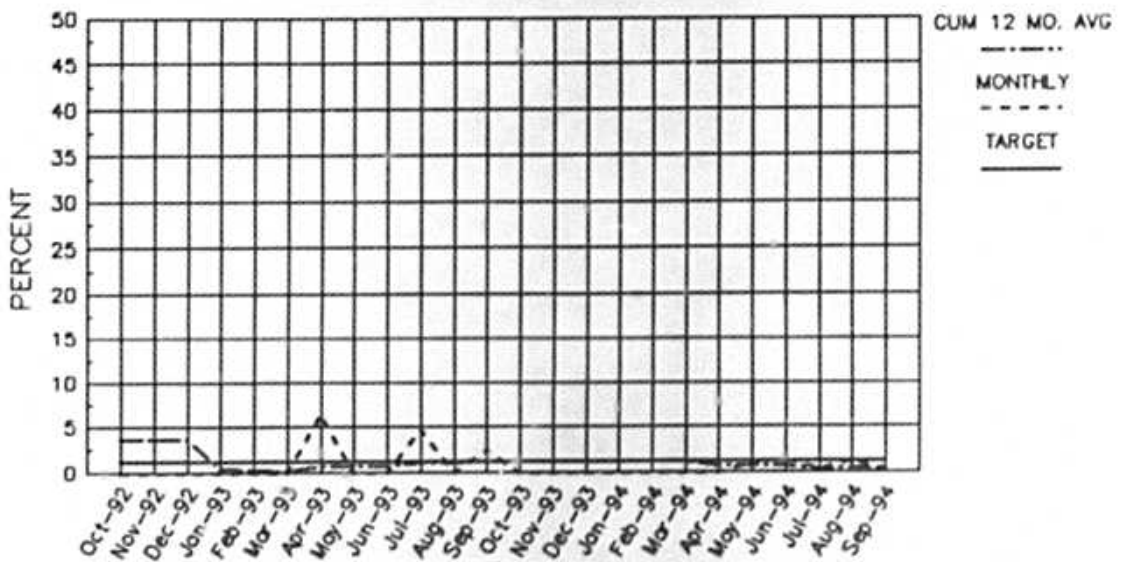


TAMPA ELECTRIC COMPANY  
 BIG BEND UNIT NO. 3  
 PLANNED OUTAGE 1995  
 PRELIMINARY CPM  
 10/13/94

TAMPA ELECTRIC CO.  
 GANNON UNIT #5  
 EFOF (ADJUSTED FOR PLANNED OUTAGE HOURS)

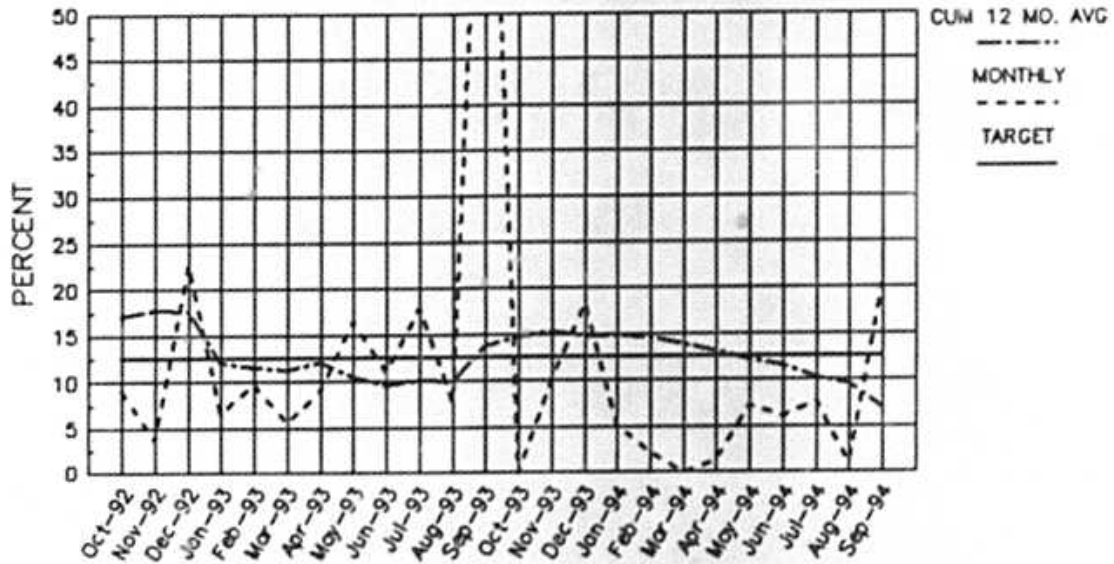


TAMPA ELECTRIC CO.  
 GANNON UNIT #5  
 EMOF (ADJUSTED FOR PLANNED OUTAGE HOURS)

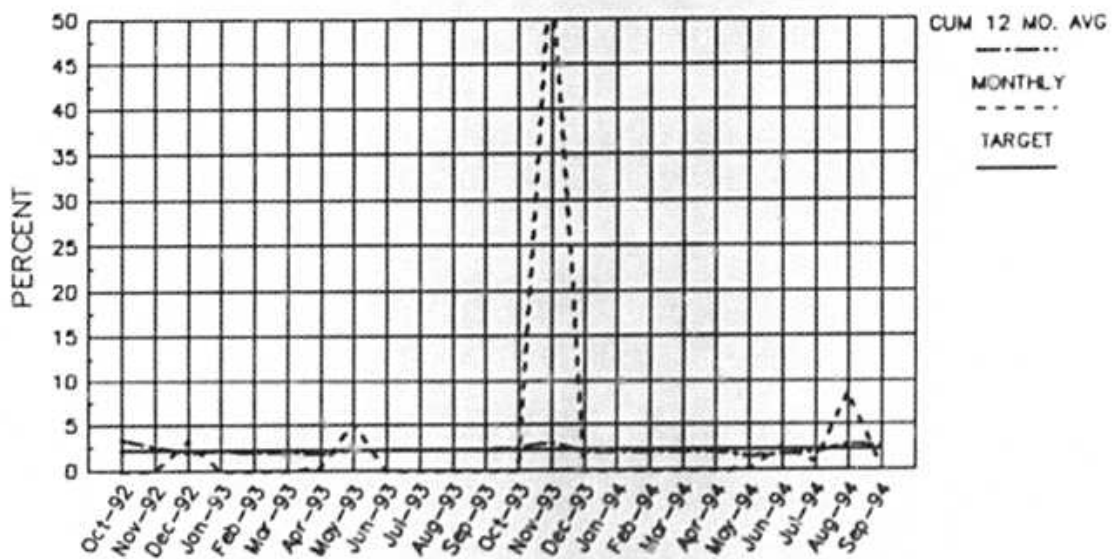




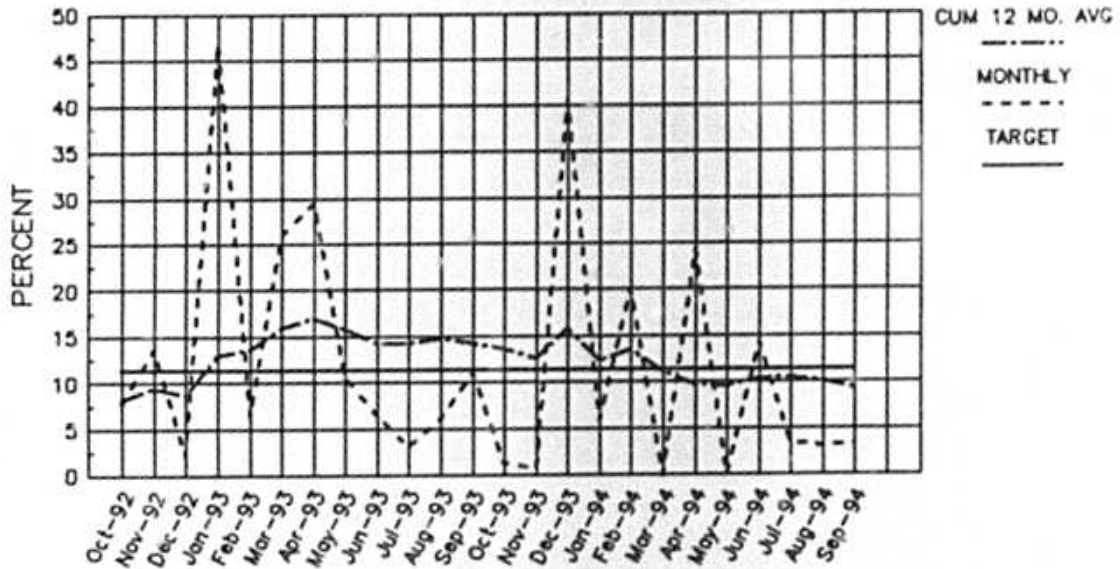
**TAMPA ELECTRIC CO.**  
**GANNON UNIT #6**  
**EFOF (ADJUSTED FOR PLANNED OUTAGE HOURS)**



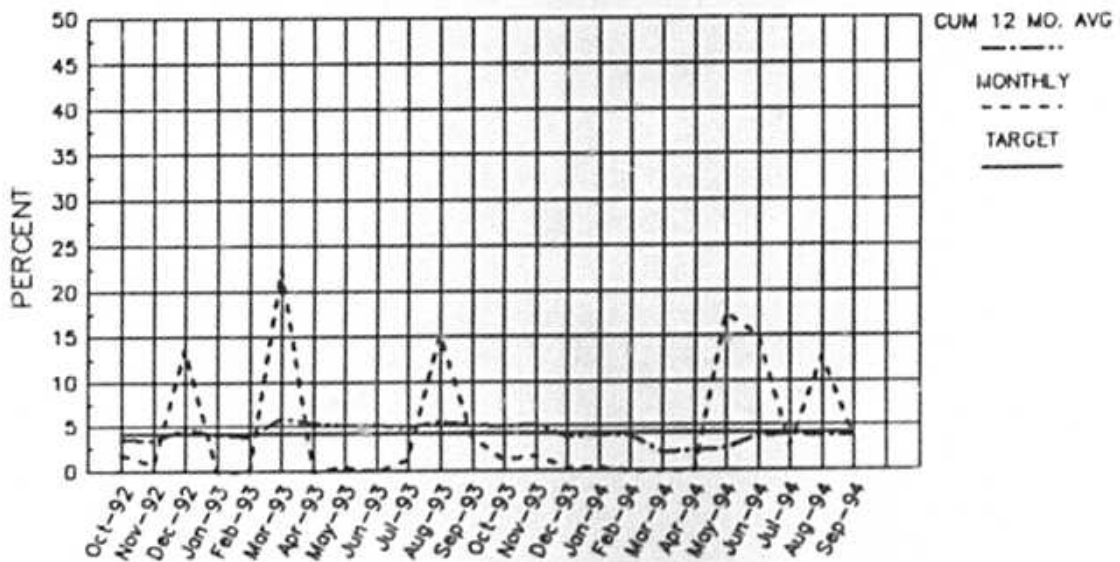
**TAMPA ELECTRIC CO.**  
**GANNON UNIT #6**  
**EMOF (ADJUSTED FOR PLANNED OUTAGE HOURS)**



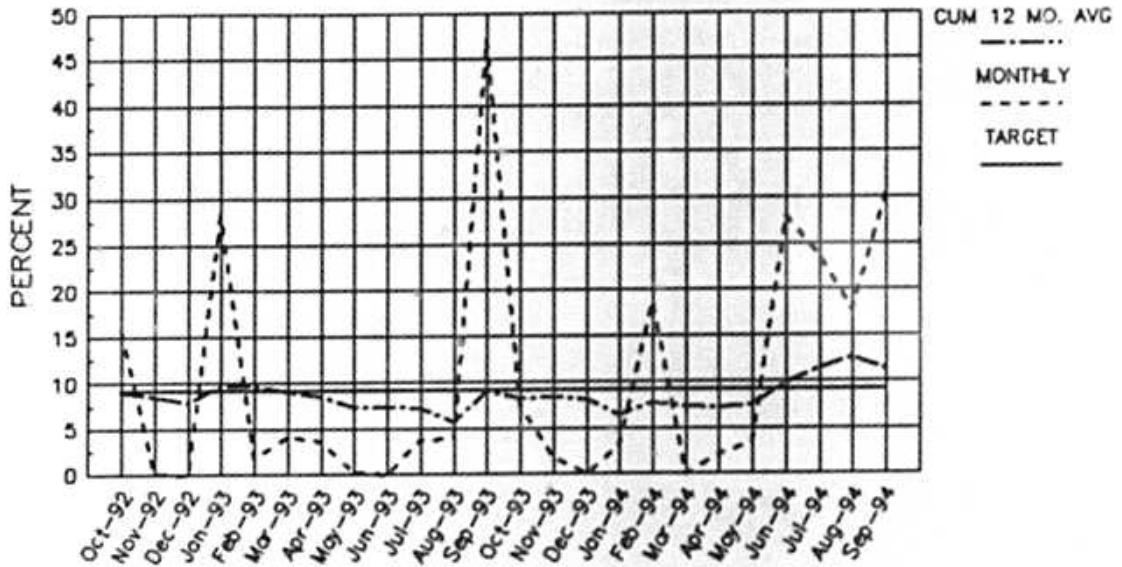
**TAMPA ELECTRIC CO.**  
**BIG BEND UNIT #1**  
**EFOF (ADJUSTED FOR PLANNED OUTAGE HOURS)**



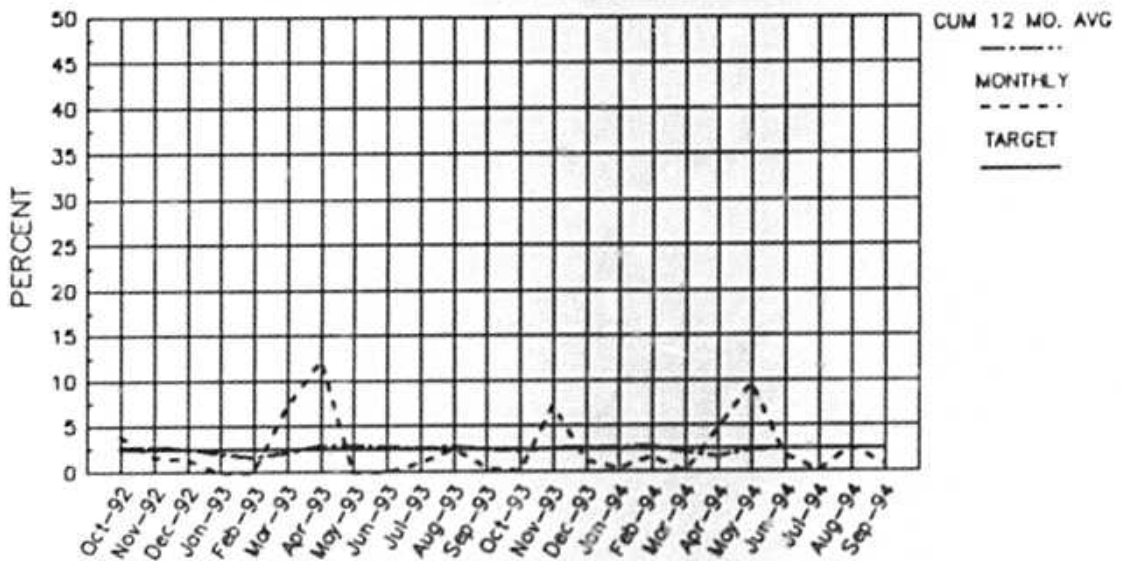
**TAMPA ELECTRIC CO.**  
**BIG BEND UNIT #1**  
**EMOF (ADJUSTED FOR PLANNED OUTAGE HOURS)**



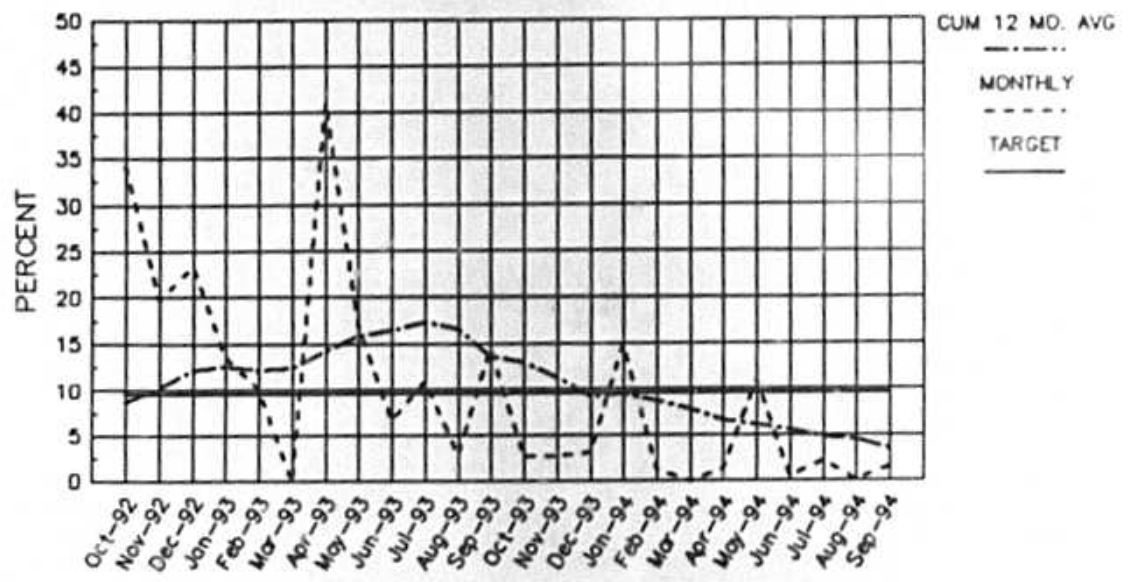
TAMPA ELECTRIC CO.  
 BIG BEND UNIT #2  
 EFOF (ADJUSTED FOR PLANNED OUTAGE HOURS)



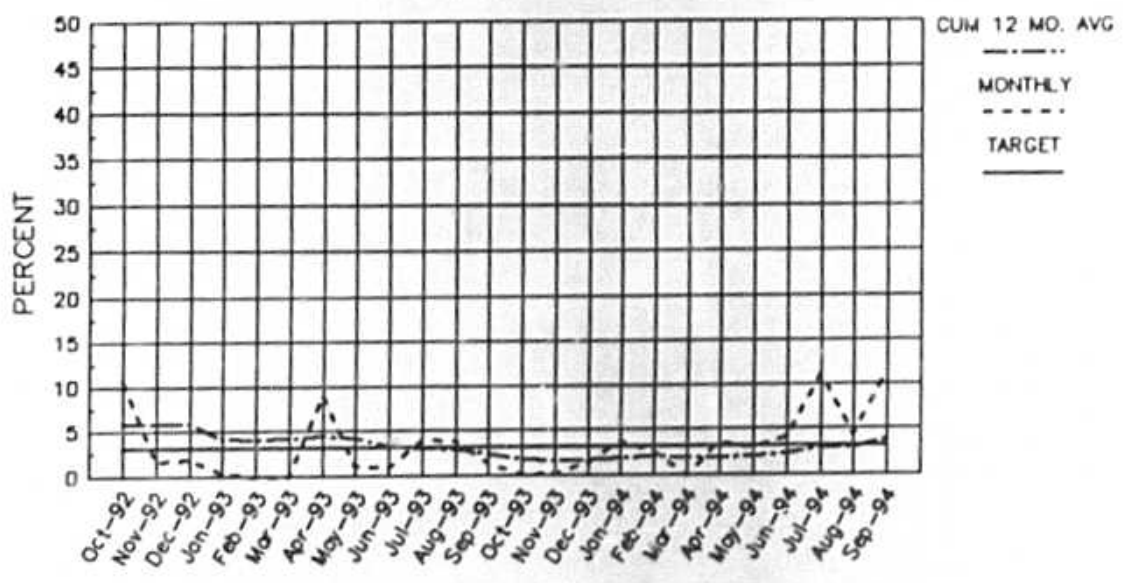
TAMPA ELECTRIC CO.  
 BIG BEND UNIT #2  
 EMOF (ADJUSTED FOR PLANNED OUTAGE HOURS)



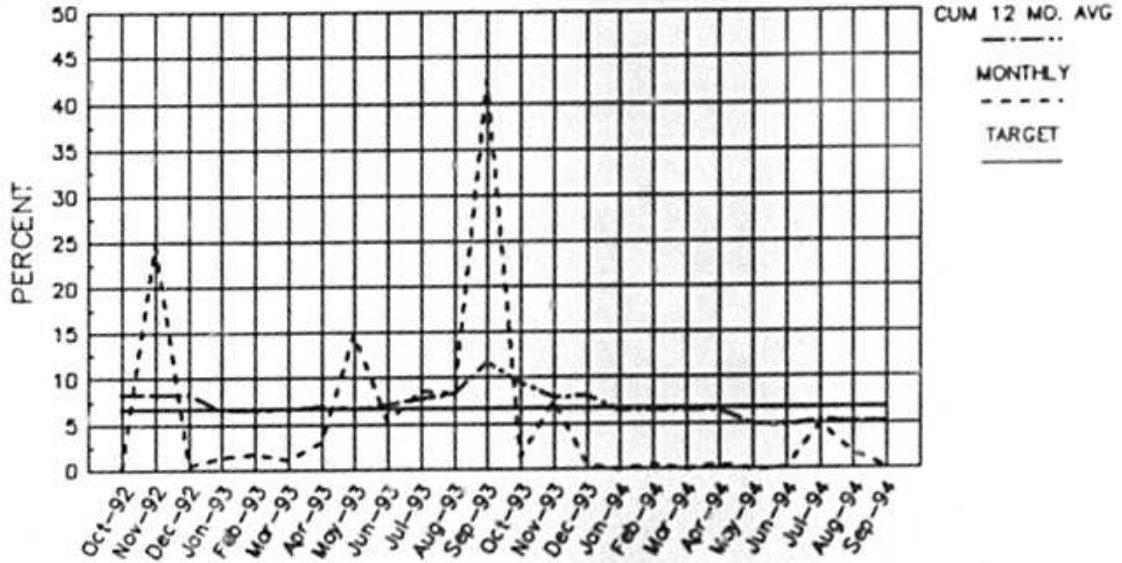
**TAMPA ELECTRIC CO.**  
**BIG BEND UNIT #3**  
**EFOF (ADJUSTED FOR PLANNED OUTAGE HOURS)**



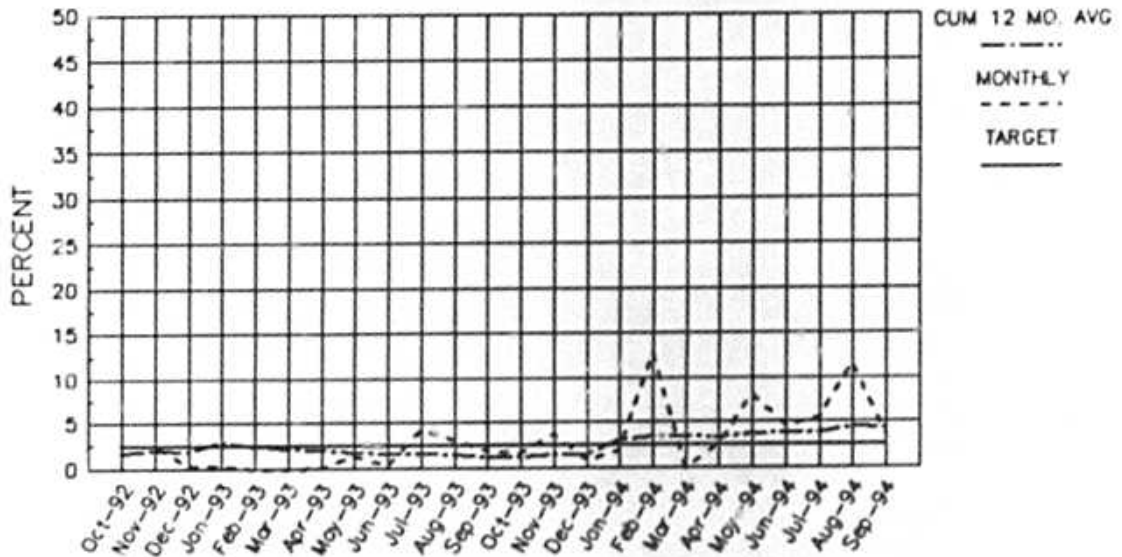
**TAMPA ELECTRIC CO.**  
**BIG BEND UNIT #3**  
**EMOF (ADJUSTED FOR PLANNED OUTAGE HOURS)**



TAMPA ELECTRIC CO.  
 BIG BEND UNIT #4  
 EFOF (ADJUSTED FOR PLANNED OUTAGE HOURS)



TAMPA ELECTRIC CO.  
 BIG BEND UNIT #4  
 EMOF (ADJUSTED FOR PLANNED OUTAGE HOURS)

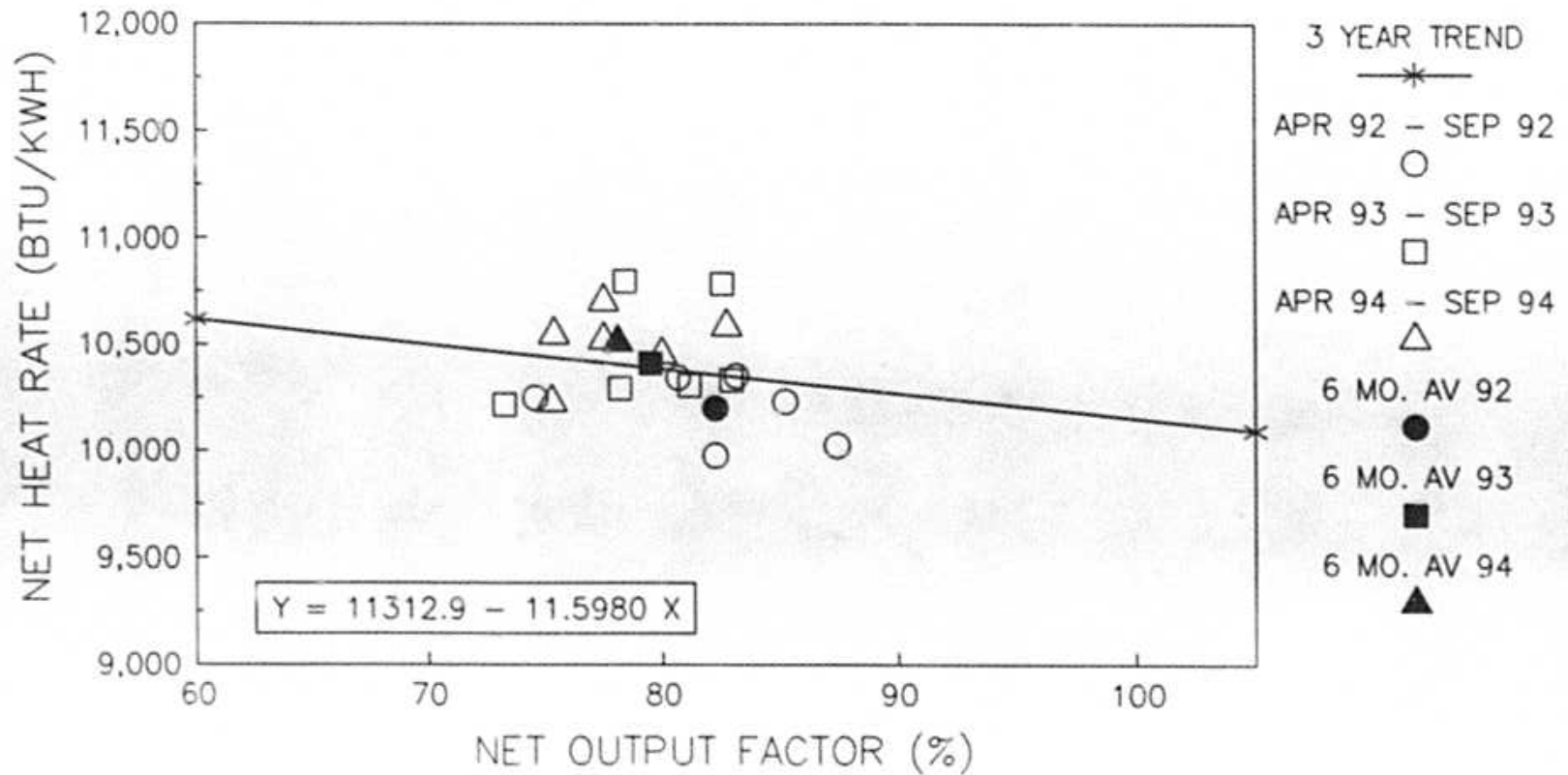




# TAMPA ELECTRIC COMPANY

## HEAT RATE VS. NET OUTPUT FACTOR

### GANNON 6, SUMMER 1995



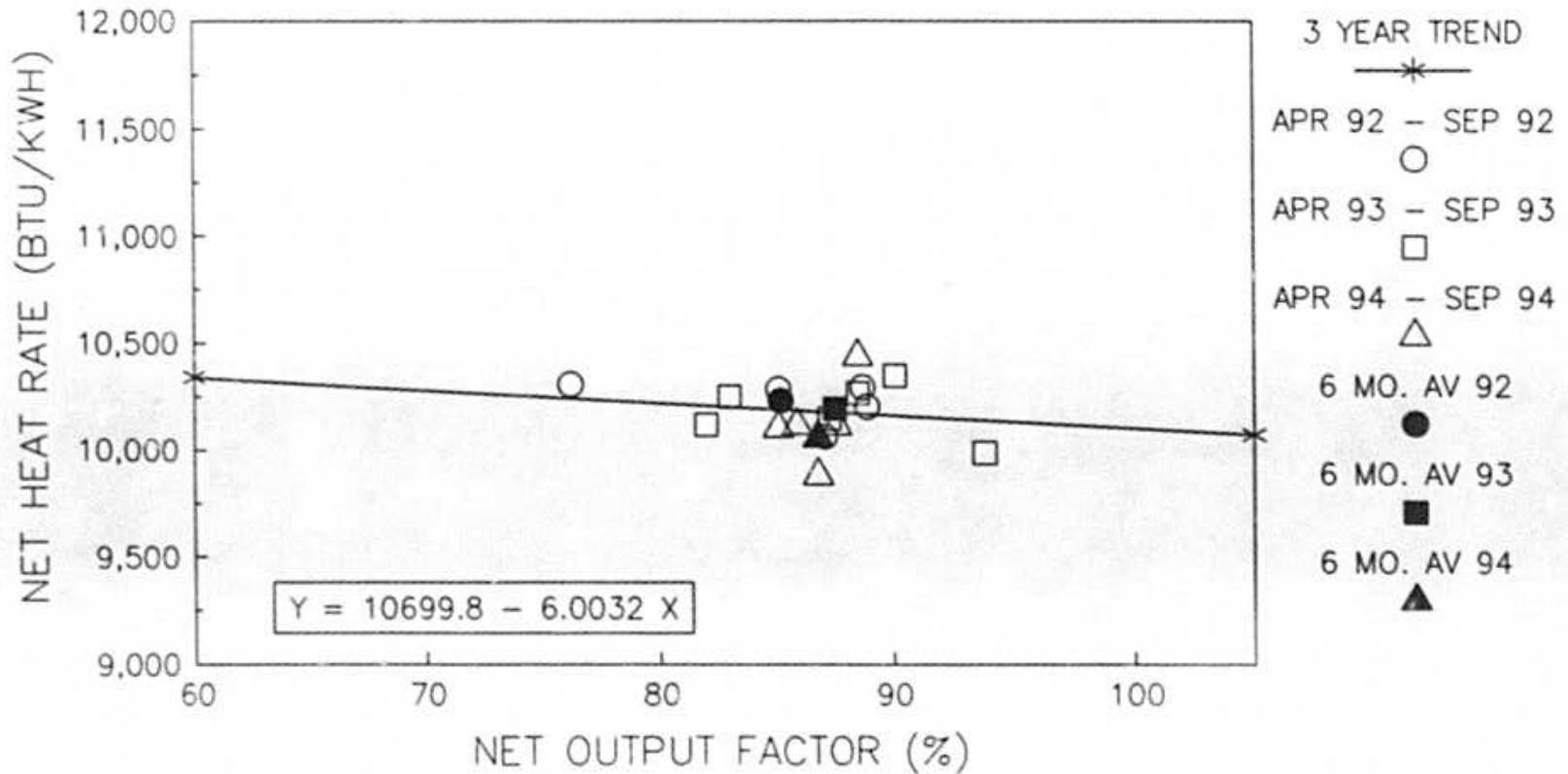
TARGET NET HEAT RATE: 10335  
 TARGET NET OUTPUT FACTOR: 84.3



# TAMPA ELECTRIC COMPANY

## HEAT RATE VS. NET OUTPUT FACTOR

### BIG BEND 1, SUMMER 1995



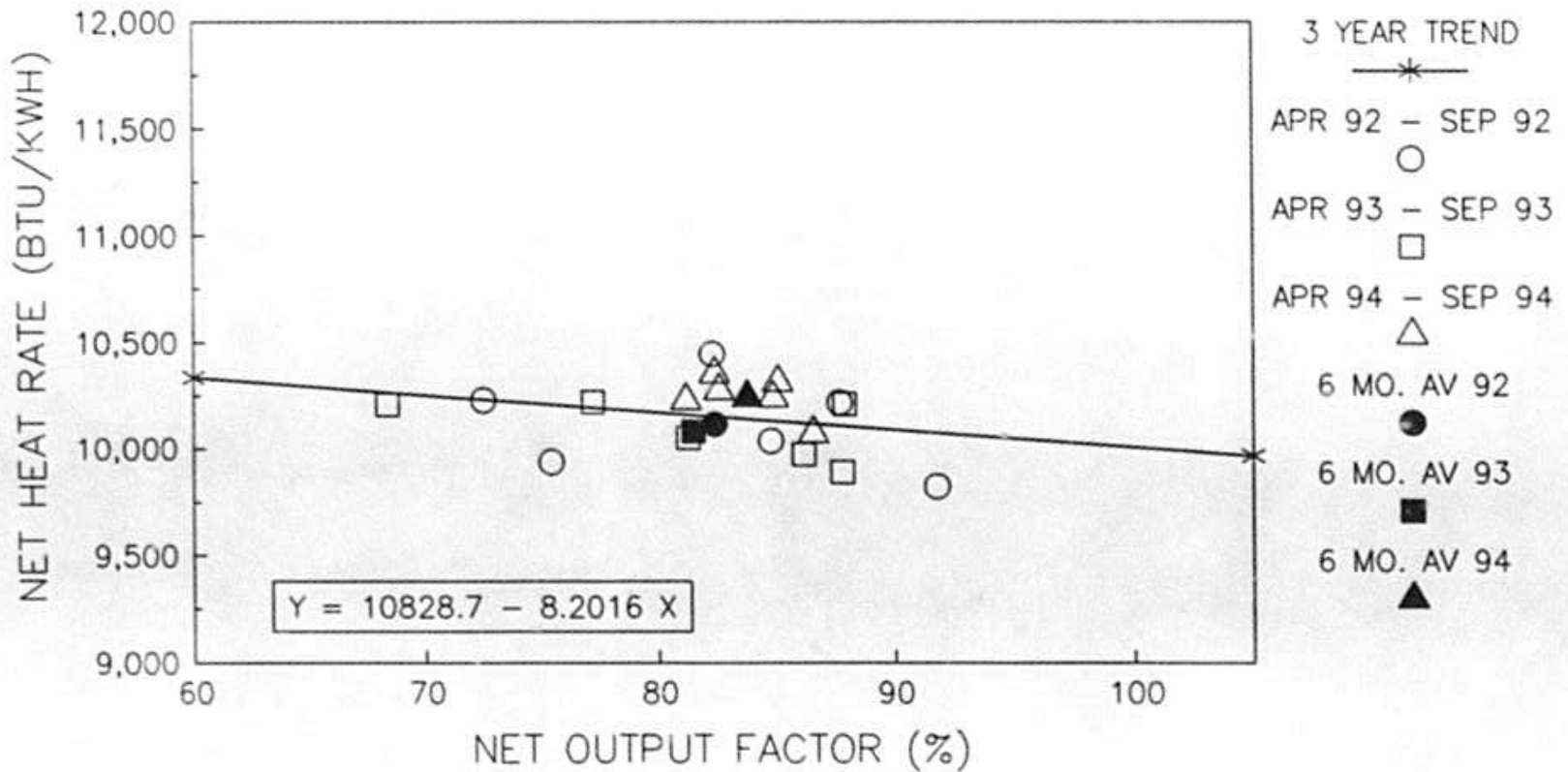
TARGET NET HEAT RATE: 10137  
 TARGET NET OUTPUT FACTOR: 93.8



# TAMPA ELECTRIC COMPANY

## HEAT RATE VS. NET OUTPUT FACTOR

### BIG BEND 2, SUMMER 1995

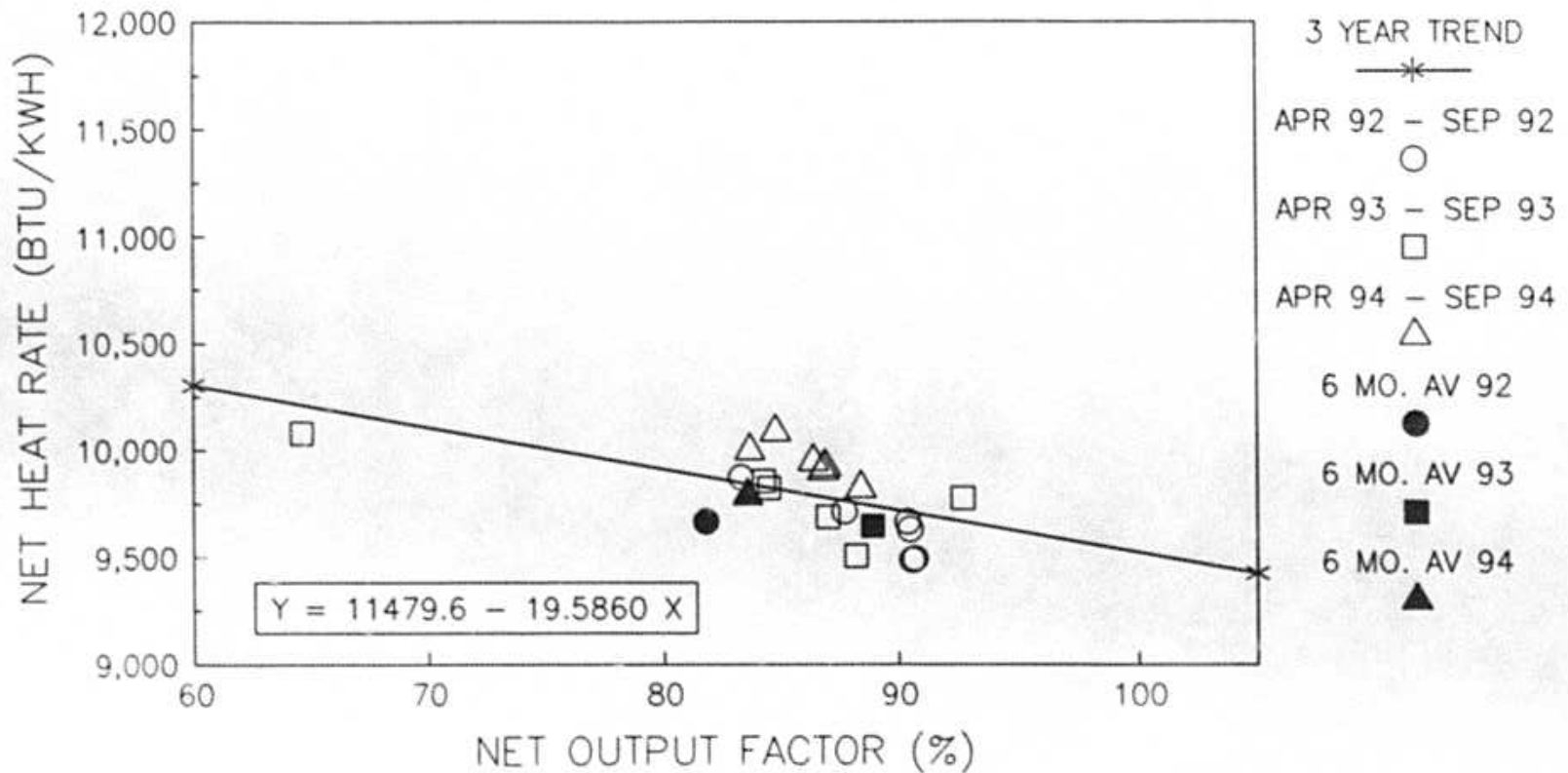


TARGET NET HEAT RATE: 10055  
 TARGET NET OUTPUT FACTOR: 94.3

# TAMPA ELECTRIC COMPANY

## HEAT RATE VS. NET OUTPUT FACTOR

### BIG BEND 3, SUMMER 1995

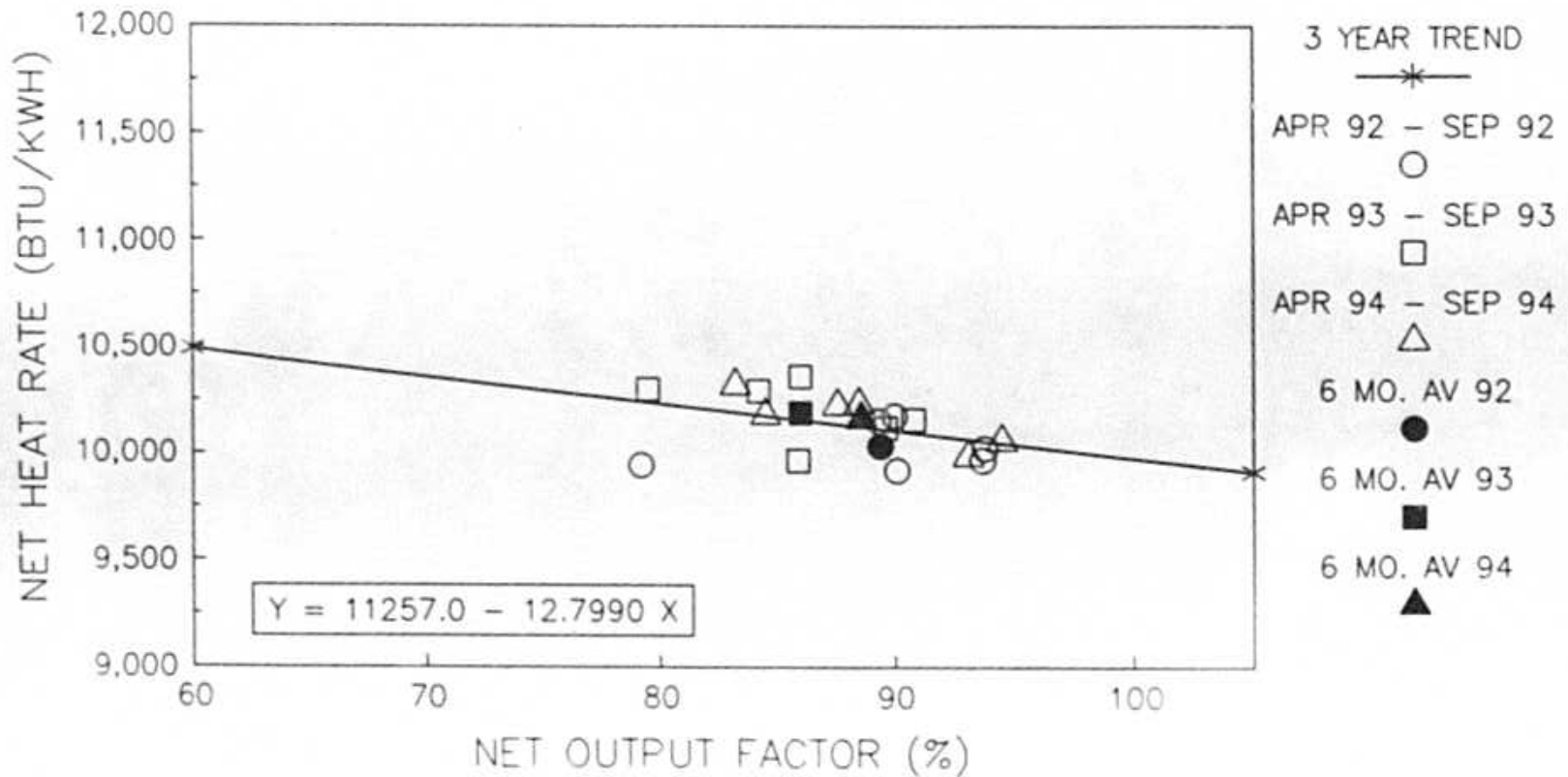


TARGET NET HEAT RATE: 9607  
 TARGET NET OUTPUT FACTOR: 95.6

# TAMPA ELECTRIC COMPANY

## HEAT RATE VS. NET OUTPUT FACTOR

### BIG BEND 4, SUMMER 1995



TARGET NET HEAT RATE: 10036  
 TARGET NET OUTPUT FACTOR: 95.4

**TAMPA ELECTRIC COMPANY  
 TABLE 4.2  
 GENERATING UNITS IN GPIF  
 APRIL 1995 - SEPTEMBER 1995**

<u>UNIT</u>	<u>MDC GROSS (MW)</u>	<u>NDC NET (MW)</u>
GANNON 5	240	227
GANNON 6	375	362
BIG BEND 1	420	405
BIG BEND 2	420	406
BIG BEND 3	445	430
BIG BEND 4	475	441
<b>TOTAL</b>	<b>2375</b>	<b>2271</b>
<b>SYSTEM TOTAL</b>	<b>3398</b>	<b>3251</b>
<b>% OF SYSTEM TOTAL</b>	<b>69.89%</b>	<b>69.86%</b>

TAMPA ELECTRIC COMPANY  
 UNIT RATINGS  
 APRIL 1995 - SEPTEMBER 1995

UNIT	MDC GROSS (MW)	NDC NET (MW)
HOOKERS POINT 1	33	32
HOOKERS POINT 2	33	32
HOOKERS POINT 3	33	32
HOOKERS POINT 4	43	41
HOOKERS POINT 5	<u>70</u>	<u>67</u>
HOOKERS TOTAL	212	204
GANNON 1	125	119
GANNON 2	125	119
GANNON 3	165	155
GANNON 4	200	189
GANNON 5	240	227
GANNON 6	<u>375</u>	<u>362</u>
GANNON TOTAL	1230	1171
BIG BEND 1	420	405
BIG BEND 2	420	406
BIG BEND 3	445	430
BIG BEND 4	<u>475</u>	<u>441</u>
BIG BEND TOTAL	1760	1682
GANNON CT	15	15
BIG BEND CT 1	15	15
BIG BEND CT 2	65	65
BIG BEND CT 3	<u>65</u>	<u>65</u>
CT TOTAL	160	160
PHILLIPS 1	18	17
PHILLIPS 2	<u>18</u>	<u>17</u>
SEBRING TOTAL	<u>36</u>	<u>34</u>
SYSTEM TOTAL	3398	3251

TAMPA ELECTRIC COMPANY  
PERCENT GENERATION BY UNIT  
APRIL 1995 - SEPTEMBER 1995

STATION	UNIT	NET OUTPUT MWH	% OF PROJECTED OUTPUT	% CUMULATIVE PROJECTED OUTPUT
BIG BEND	4	1,724,671	19.19%	19.19%
BIG BEND	2	1,546,265	17.21%	36.40%
BIG BEND	1	1,465,211	16.31%	52.71%
BIG BEND	3	1,239,217	14.01%	66.73%
GANNON	6	1,060,067	11.80%	78.52%
GANNON	5	678,454	7.55%	86.07%
GANNON	4	439,838	4.90%	90.97%
GANNON	3	283,279	3.15%	94.12%
GANNON	1	261,780	2.91%	97.04%
GANNON	2	170,141	1.89%	98.93%
HOOKERS POINT	5	37,972	0.42%	99.35%
HOOKERS POINT	4	8,739	0.10%	99.45%
BIG BEND CT	2	8,155	0.09%	99.54%
PHILLIPS	1	7,718	0.09%	99.63%
HOOKERS POINT	1	7,559	0.08%	99.71%
PHILLIPS	2	6,343	0.07%	99.78%
BIG BEND CT	3	6,154	0.07%	99.85%
HOOKERS POINT	2	5,761	0.06%	99.91%
HOOKERS POINT	3	5,739	0.06%	99.98%
BIG BEND CT	1	1,136	0.01%	99.99%
GANNON CT		1,043	0.01%	100.00%
TOTAL GENERATION		8,985,142	100.00%	

GENERATION BY COAL UNITS: 8,888,923 MWH

% GENERATION BY COAL UNITS: 98.93%

GENERATION BY OIL UNITS: 96,219 MWH

% GENERATION BY OIL UNITS: 1.07%

GENERATION BY GPIP UNITS: 7,733,885 MWH

% GENERATION BY GPIP UNITS: 86.07%

TAMPA ELECTRIC COMPANY  
GENERATING PERFORMANCE INCENTIVE FACTOR  
APRIL 1995 - SEPTEMBER 1995  
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**TAMPA ELECTRIC COMPANY**  
**ESTIMATED UNIT PERFORMANCE DATA**  
**APRIL 1995 - SEPTEMBER 1995**

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PLANT/UNIT BIG BEND 1	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
	APR 95	MAY 95	JUN 95	JUL 95	AUG 95	SEP 95	SUMMER 1995
1. EAF (%)	78.7	84.3	84.3	84.3	84.3	84.4	83.4
2. POF (%)	6.7	0.0	0.0	0.0	0.0	0.0	1.1
3. EUOF (%)	14.6	15.7	15.7	15.7	15.7	15.6	15.5
4. EUOR (%)	15.6	15.7	15.7	15.7	15.7	15.6	15.7
5. PH	719	744	720	744	744	720	4391
6. SH	598	660	639	660	660	639	3856
7. RSH	0	0	0	0	0	0	0
8. UH	121	84	81	84	84	81	535
9. POH	48	0	0	0	0	0	48
10. FOH & EFOH	77	86	83	86	86	81	499
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17. ANOHR EQUATION:

$$\text{ANOHR} = \text{NOF} (- 6.0032) + 10699.8$$

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**TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
APRIL 1995 - SEPTEMBER 1995**

PAGE 3 OF 22

PLANT/UNIT BIG BEND 2	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
	APR 95	MAY 95	JUN 95	JUL 95	AUG 95	SEP 95	SUMMER 1995
1. EAF (%)	88.0	88.2	88.1	88.2	88.2	88.1	88.1
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. EUOF (%)	12.0	11.8	11.9	11.8	11.8	11.9	11.9
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13. NET GEN (MWH)	256234	264112	253938	261804	261748	248630	1546266
14. ANOHR (BTU/KWH)	9970	9998	10080	10096	10096	10093	10055
15. NOF (%)	95.3	95.1	94.5	94.2	94.3	92.5	94.3
16. NSC (MW)	406	406	406	406	406	406	406

17. ANOHR EQUATION:

$$\text{ANOHR} = \text{NOF} (-8.2016) + 10828.7$$

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SUSPENDED:  
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**TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
APRIL 1995 - SEPTEMBER 1995**

PAGE 4 OF 22

PLANT/UNIT BIG BEND 3	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
	APR 95	MAY 95	JUN 95	JUL 95	AUG 95	SEP 95	SUMMER 1995
1. EAF (%)	11.5	42.1	87.1	87.1	87.1	87.2	67.1
2. POF (%)	86.8	51.8	0.0	0.0	0.0	0.0	23.0
3. EUOF (%)	1.7	6.3	12.9	12.9	12.9	12.8	9.9
4. EU <sup>2</sup> IR (%)	12.6	13.1	12.9	12.9	12.9	12.8	12.9
5. PH	719	744	720	744	744	720	4391
6. SH	85	325	651	673	673	656	3063
7. RSH	0	0	0	0	0	0	0
8. UH	634	419	69	71	71	64	1328
9. POH	624	384	0	0	0	0	1008
10. FOH & EFOH	9	35	70	72	72	70	328
11. MOH & EMOH	3	12	23	24	24	22	108
12. OPER BTU (GBTU)	339,223	1,273,708	2,565,837	2,682,508	2,684,314	2,551,942	12,097,532
13. NET GEN (MWH)	36,013	134,690	268,872	276,009	276,198	267,436	1,259,218
14. ANOHR (BTU/KWH)	9,419	9,457	9,543	9,719	9,719	9,542	9,607
15. NOF (%)	98.5	96.4	96.0	95.4	95.4	94.8	95.6
16. NSC (MW)	430	430	430	430	430	430	430

17. ANOHR EQUATION:

$$\text{ANOHR} = \text{NOF} (-19.5860) + 11479.8$$

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**TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
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PLANT/UNIT BIG BEND 4	MONTH OF: APR 95	MONTH OF: MAY 95	MONTH OF: JUN 95	MONTH OF: JUL 95	MONTH OF: AUG 95	MONTH OF: SEP 95	PERIOD SUMMER 1995
1. EAF (%)	90.5	90.6	90.8	90.6	90.8	90.7	90.6
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. EUOF (%)	9.5	9.4	9.4	9.4	9.4	9.3	9.4
4. EUOR (%)	9.5	9.4	9.4	9.4	9.4	9.3	9.4
5. PH	719	744	720	744	744	720	4391
6. SH	675	697	675	697	697	675	4116
7. RSH	0	0	0	0	0	0	0
8. UH	44	47	45	47	47	45	275
9. POH	0	0	0	0	0	0	0
10. FOH & EFOH	49	51	49	51	51	48	299
11. MOH & EMOH	19	19	19	19	19	19	114
12. OPER BTU (GBTU)	2879.481	2963.986	2842.703	2946.150	2946.200	2800.486	17379.006
13. NET GEN (MWH)	290616	296844	282942	291236	291247	278786	1731671
14. ANOHR (BTU/KWH)	9908	9985	10047	10116	10116	10045	10036
15. NOF (%)	97.6	96.6	95.1	94.7	94.8	93.7	95.4
16. NSC (MW)	441	441	441	441	441	441	441

17. ANOHR EQUATION:

$$\text{ANOHR} = \text{NOF} (-12.7990) + 11257.0$$

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**TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
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PLANT/UNIT GANNON 1	MONTH OF: APR 95	MONTH OF: MAY 95	MONTH OF: JUN 95	MONTH OF: JUL 95	MONTH OF: AUG 95	MONTH OF: SEP 95	PERIOD SUMMER 1995
1. EAF (%)	82.2	93.5	94.0	94.1	94.4	93.9	92.0
2. POF (%)	13.4	0.0	0.0	0.0	0.0	0.0	2.2
3. EUOF (%)	4.5	6.5	6.0	5.9	5.6	6.1	5.8
4. EUOR (%)	9.2	9.1	9.2	9.4	9.2	9.4	9.2
5. PH	719	744	720	744	744	720	4391
6. SH	321	489	433	435	423	435	2536
7. RSH	277	217	253	274	288	250	1559
8. UH	121	38	34	35	33	35	296
9. POH	96	0	0	0	0	0	96
10. FOH & EFOH	23	35	31	32	31	32	184
11. MOH & EMOH	9	13	12	12	11	12	69
12. OPER BTU (GBTU)	344,817	557,641	480,851	510,964	510,381	522,590	2927,044
13. NET GEN (MWH)	31135	50206	43022	45457	45311	46650	261781
14. ANOHR (BTU/KWH)	11075	11107	11172	11241	11264	11202	11181
15. NOF (%)	81.5	86.3	83.5	87.8	90.0	90.1	86.7
16. NSC (MW)	119	119	119	119	119	119	119

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**TAMPA ELECTRIC COMPANY  
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PLANT/UNIT GANNON 2	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
	APR 95	MAY 95	JUN 95	JUL 95	AUG 95	SEP 95	SUMMER 1995
1. EAF (%)	94.7	92.1	93.3	93.0	30.0	91.4	82.2
2. POF (%)	0.0	0.0	0.0	0.0	67.7	0.0	11.5
3. EUOF (%)	5.3	7.9	6.7	7.0	2.3	8.6	6.3
4. EUOR (%)	14.9	14.8	14.7	14.7	14.8	14.8	14.8
5. PH	719	744	720	744	744	720	4391
6. SH	229	359	294	318	104	376	1680
7. RSH	464	346	394	391	125	302	2022
8. UH	26	39	32	35	515	42	689
9. POH	0	0	0	0	504	0	504
10. FOH & EFOH	26	41	33	36	12	43	191
11. MOH & EMOH	12	18	15	16	5	19	85
12. OPER BTU (GBTU)	250.100	411.089	339.963	378.804	133.971	454.636	1968.783
13. NET GEN (MWH)	22059	35945	29252	32181	11440	39263	170140
14. ANOHR (BTU/KWH)	11338	11437	11623	11771	11711	11584	11572
15. NOF (%)	80.9	84.1	83.6	85.0	92.4	87.8	85.1
16. NSC (MW)	119	119	119	119	119	119	119

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**TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
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PLANT/UNIT GANNON 3	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
	APR 95	MAY 95	JUN 95	JUL 95	AUG 95	SEP 95	SUMMER 1995
1. EAF (%)	95.4	94.1	94.7	94.9	88.8	34.6	53.9
2. POF (%)	0.0	0.0	0.0	0.0	6.5	63.3	11.5
3. EUOF (%)	4.6	5.9	5.3	5.1	4.7	2.1	4.6
4. EUIOR (%)	9.0	8.8	8.9	8.9	8.9	9.1	8.9
5. P.I.	719	744	720	744	744	720	4391
6. SH	348	475	404	407	372	155	2181
7. RSH	352	243	294	315	304	100	1608
8. UH	19	26	22	22	68	465	622
9. POH	0	0	0	0	48	456	504
10. FOH & EFOH	27	36	31	31	29	12	166
11. MOH & EMOH	6	8	7	7	6	3	37
12. OPER BTU (GBTU)	464.729	685.546	591.003	610.010	567.431	248.517	3165.236
13. NET GEN (MWH)	41943	61414	52793	54271	50548	22310	283279
14. ANOHR (BTU/KWH)	11080	11130	11195	11240	11226	11139	11174
15. NOF (%)	77.8	83.4	84.3	86.0	87.7	92.9	84.6
16. NSC (MW)	155	155	155	155	155	155	155

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**TAMPA ELECTRIC COMPANY  
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PLANT/UNIT GANNON 4	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
	APR 95	MAY 95	JUN 95	JUL 95	AUG 95	SEP 95	SUMMER 1995
1. EAF (%)	90.7	89.0	89.6	89.9	90.3	57.4	84.6
2. POF (%)	0.0	0.0	0.0	0.0	0.0	36.7	6.0
3. EUOF (%)	9.3	11.0	10.4	10.1	9.7	6.0	9.4
4. EUOR (%)	14.0	14.1	14.2	14.3	14.2	14.0	14.1
5. PH	719	744	720	744	744	720	4391
6. SH	428	521	474	470	453	275	2621
7. RSH	241	162	190	218	238	149	1198
8. UH	50	61	56	56	53	296	572
9. POH	0	0	0	0	0	264	264
10. FOH & EFOH	53	65	59	59	57	34	327
11. MOH & EMOH	14	17	16	16	15	9	87
12. OPER BTU (GBTU)	407,526	912,661	853,778	856,890	830,802	517,015	4378,672
13. NET GEN (MWH)	66876	86229	80149	80169	77766	48648	439837
14. ANOHR (BTU/KWH)	6094	10584	10652	10689	10683	10628	9955
15. NOF (%)	82.7	87.6	89.5	90.2	90.8	93.6	88.8
16. NSC (MW)	189	189	189	189	189	189	189

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PLANT/UNIT GANNON 5	MONTH OF: APR 95	MONTH OF: MAY 95	MONTH OF: JUN 95	MONTH OF: JUL 95	MONTH OF: AUG 95	MONTH OF: SEP 95	PERIOD SUMMER 1995
1. EAF (%)	88.7	88.7	88.8	88.7	88.7	88.6	88.7
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. EUOF (%)	11.3	11.3	11.3	11.3	11.3	11.4	11.3
4. EUOR (%)	11.3	11.3	11.3	11.3	11.3	11.4	11.3
5. PH	719	744	720	744	744	720	4391
6. SH	531	609	560	550	530	504	3284
7. RSH	0	0	0	0	0	0	0
8. UH	188	135	160	194	214	216	1107
9. POH	0	0	0	0	0	0	0
10. FOH & EFOH	72	74	72	74	74	73	439
11. MOH & EMOH	9	10	9	10	10	9	57
12. OPER BTU (GBTU)	1076.593	1256.843	1166.985	1158.435	1112.887	1048.136	6819.879
13. NET GEN (MWH)	108922	126137	116012	113828	109360	104196	676455
14. ANOHR (BTU/KWH)	9884	9964	10059	10177	10176	10059	10052
15. NOF (%)	90.4	91.2	91.3	91.2	90.9	91.1	91.0
16. NSC (MW)	227	227	227	227	227	227	227

17. ANOHR EQUATION:

$$\text{ANOHR} = \text{NOF} (-18.8080) + 11763.6$$

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**TAMPA ELECTRIC COMPANY**  
**ESTIMATED UNIT PERFORMANCE DATA**  
**APRIL 1995 - SEPTEMBER 1995**

PLANT/UNIT GANNON 6	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
	APR 95	MAY 95	JUN 95	JUL 95	AUG 95	SEP 95	SUMMER 1995
1. EAF (%)	85.0	57.5	85.0	85.1	85.1	85.6	80.4
2. POF (%)	0.0	32.3	0.0	0.0	0.0	0.0	5.5
3. EUOF (%)	15.0	10.2	15.0	14.9	14.9	14.4	14.1
4. EUOR (%)	15.0	15.1	15.0	14.9	14.9	14.4	14.9
5. PH	719	744	720	744	744	720	4391
6. SH	604	424	609	625	618	593	3473
7. RSH	0	0	0	0	0	0	0
8. UH	115	320	111	119	126	127	918
9. POH	0	240	0	0	0	0	240
10. FOH & EFOH	91	64	91	94	94	89	523
11. MOH & EMOH	17	12	17	17	17	15	95
12. OPER BTU (GBTU)	1851.297	1396.167	1958.763	1995.822	1941.031	1812.923	10956.003
13. NET GEN (MWH)	180734	136191	189934	191850	186331	175028	1060068
14. ANOHR (BTU/KWH)	10243	10252	10313	10403	10417	10358	10335
15. NOF (%)	82.7	88.7	86.2	84.8	83.3	81.5	84.3
16. NSC (MW)	362	362	362	362	362	362	362
17. ANOHR EQUATION:	$ANOHR = NOF (-11.5980) + 11312.9$						

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**TAMPA ELECTRIC COMPANY  
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PLANT/UNIT HOOKERS POINT 1	MONTH OF: APR 95	MONTH OF: MAY 95	MONTH OF: JUN 95	MONTH OF: JUL 95	MONTH OF: AUG 95	MONTH OF: SEP 95	PERIOD SUMMER 1995
1. EAF (%)	100.0	99.7	99.4	99.1	98.5	98.8	99.2
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. EUOF (%)	0.0	0.3	0.6	0.9	1.5	1.3	0.8
4. EUOR (%)	0.0	15.4	11.1	11.7	11.7	11.1	11.8
5. PH	719	744	720	744	744	720	4391
6. SH	0	11	32	53	83	72	251
7. RSH	719	731	684	684	650	639	4107
8. UH	0	2	4	7	11	9	33
9. POH	0	0	0	0	0	0	0
10. FOH & EFOH	0	1	1	2	4	3	11
11. MOH & EMOH	0	1	3	5	7	6	22
12. OPER BTU (GBTU)	0.000	5.346	14.897	25.175	39.840	34.227	119.485
13. NET GEN (MWH)	0	340	948	1583	2506	2181	7558
14. ANOHR (BTU/KWH)	0	15724	15714	15903	15898	15693	15809
15. NOF (%)	0.0	96.6	92.6	93.3	94.4	94.7	94.1
16. NSC (MW)	32	32	32	32	32	32	32

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**TAMPA ELECTRIC COMPANY  
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PLANT/UNIT HOOKERS POINT 2	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
	APR 95	MAY 95	JUN 95	JUL 95	AUG 95	SEP 95	SUMMER 1995
1. EAF (%)	100.0	99.9	99.6	99.2	98.8	99.0	99.4
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. EUOF (%)	0.0	0.1	0.4	0.8	1.2	1.0	0.6
4. EUOR (%)	0.0	9.1	12.5	12.8	11.6	11.9	12.0
5. PH	719	744	720	744	744	720	4391
6. SH	0	10	21	41	67	52	191
7. RSH	719	733	696	697	668	661	4174
8. UH	0	1	3	6	9	7	26
9. POH	0	0	0	0	0	0	0
10. FOH & EFOH	0	0	1	2	3	2	8
11. MOH & EMOH	0	1	2	4	6	5	18
12. OPER BTU (GBTU)	0.000	5.112	9.843	20.022	32.878	25.312	93.167
13. NET GEN (MWH)	0	319	610	1235	2028	1570	5762
14. ANOHR (BTU/KWH)	0	16025	16136	16212	16212	16122	16169
15. NOF (%)	0.0	99.7	90.8	94.1	94.6	94.4	94.3
16. NSC (MW)	32	32	32	32	32	32	32

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**TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
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PLANT/UNIT HOOKERS POINT 3	MONTH OP:	MONTH OP:	MONTH OP:	MONTH OP:	MONTH OP:	MONTH OP:	PERIOD
	APR 95	MAY 95	JUN 95	JUL 95	AUG 95	SEP 95	SUMMER 1995
1. EAF (%)	100.0	99.7	99.6	99.3	98.9	98.9	99.4
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. EUOF (%)	0.0	0.3	0.4	0.7	1.1	1.1	0.6
4. EUOR (%)	0.0	14.3	11.1	11.9	11.6	12.1	11.9
5. PH	719	744	720	744	744	720	4391
6. SH	0	12	24	37	61	58	192
7. RSH	719	730	693	702	675	654	4173
8. UH	0	2	3	5	8	8	26
9. POH	0	0	0	0	0	0	0
10. FOH & EFOH	0	1	1	2	3	3	10
11. MOH & EMOH	0	1	2	3	5	5	16
12. OPER BTU (GBTU)	0.000	5.661	11.056	18.058	29.930	27.466	92.171
13. NET GEN (MWH)	0	363	700	1105	1831	1741	5740
14. ANOHR (BTU/KWH)	0	15595	15794	16342	16346	15776	16058
15. NOF (%)	0.0	94.5	91.1	93.3	93.8	93.8	93.4
16. NSC (MW)	32	32	32	32	32	32	32

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**TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
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PLANT/UNIT HOOKERS POINT 4	MONTH OF: APR 95	MONTH OF: MAY 95	MONTH OF: JUN 95	MONTH OF: JUL 95	MONTH OF: AUG 95	MONTH OF: SEP 95	PERIOD SUMMER 1995
1. EAF (%)	100.0	99.7	99.8	99.2	98.7	98.8	99.3
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. EUOF (%)	0.0	0.3	0.4	0.8	1.3	1.3	0.7
4. EUOR (%)	0.0	13.3	9.7	11.3	11.8	12.2	11.6
5. PH	719	744	720	744	744	720	4391
6. SH	0	13	28	47	76	65	229
7. RSH	719	729	689	691	658	646	4132
8. UH	0	2	3	6	10	9	30
9. POH	0	0	0	0	0	0	0
10. FOH & EFOH	0	1	1	2	3	3	10
11. MOH & EMOH	0	1	2	4	7	6	20
12. OPER BTU (GBTU)	0.000	7.735	16.398	28.425	45.934	39.202	137.694
13. NET GEN (MWH)	0	501	1046	1792	2897	2502	8738
14. ANOHR (BTU/KWH)	0	15439	15677	15882	15856	15668	15758
15. NOF (%)	0.0	94.0	91.1	93.0	93.0	93.9	93.1
16. NSC (MW)	41	41	41	41	41	41	41

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**TAMPA ELECTRIC COMPANY**  
**ESTIMATED UNIT PERFORMANCE DATA**  
**APRIL 1995 - SEPTEMBER 1995**

PLANT/UNIT HOOKERS POINT 5	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
	APR 95	MAY 95	JUN 95	JUL 95	AUG 95	SEP 95	SUMMER 1995
1. EAF (%)	100.0	93.4	85.0	84.9	84.7	96.3	90.7
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. EUOF (%)	0.0	6.8	15.0	15.1	15.3	3.8	9.3
4. EUOR (%)	0.0	26.3	26.3	26.4	26.3	26.2	26.3
5. PH	719	744	720	744	744	720	4391
6. SH	0	137	302	312	319	76	1146
7. RSH	719	558	310	320	311	617	2835
8. UH	0	49	108	112	114	27	410
9. POH	0	0	0	0	0	0	0
10. FOH & EFOH	0	17	37	39	39	9	141
11. MOH & EMOH	0	32	71	73	75	18	269
12. OPER BTU (GBTU)	0.000	70.456	159.195	177.915	196.756	69.957	674.279
13. NET GEN (MWH)	0	3807	8579	9792	11206	4589	37973
14. ANOHR (BTU/KWH)	0	18507	18556	18169	17558	15244	17757
15. NOF (%)	0.0	41.5	42.4	46.8	52.4	90.1	49.5
16. NSC (MW)	67	67	67	67	67	67	67

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PLANT/UNIT GANNON CT 1	MONTH OP: APR95	MONTH OP: MAY95	MONTH OP: JUN95	MONTH OP: JUL95	MONTH OP: AUG95	MONTH OP: SEP95	PERIOD SUMMER 1995
1. EAF (%)	99.3	99.6	53.1	99.3	98.8	99.2	91.6
2. POF (%)	0.0	0.0	46.7	0.0	0.0	0.0	7.7
3. EUOF (%)	0.7	0.4	0.3	0.7	1.2	0.8	0.7
4. EUOR (%)	29.4	27.3	28.6	27.8	31.0	30.0	29.4
5. PH	719	744	720	744	744	720	4391
6. SH	12	8	5	13	20	14	72
7. RSH	702	733	377	726	715	700	3953
8. UH	5	3	338	5	9	6	366
9. POH	0	0	336	0	0	0	336
10. FOH & EFOH	3	2	1	3	5	4	18
11. MOH & EMOH	2	1	1	2	4	2	12
12. OPER BTU (GBTU)	3.519	2.255	1.488	3.601	5.864	3.878	20.605
13. NET GEN (MWH)	178	114	75	182	297	196	1042
14. ANOHR (BTU/KWH)	19770	19781	19840	19788	19744	19786	19774
15. NOF (%)	98.9	95.0	100.0	93.3	99.0	93.3	96.5
16. NSC (MW)	15	15	15	15	15	15	15

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PLANT/UNIT BIG BEND CT 1	MONTH OF: APR95	MONTH OF: MAY95	MONTH OF: JUN95	MONTH OF: JUL95	MONTH OF: AUG95	MONTH OF: SEP95	PERIOD SUMMER 1995
1. EAF (%)	99.2	83.5	69.8	99.2	98.7	99.0	91.5
2. POF (%)	0.0	16.1	30.0	0.0	0.0	0.0	7.7
3. EUOF (%)	0.8	0.4	0.4	0.8	1.3	1.0	0.8
4. EUOR (%)	30.0	30.0	30.0	30.0	31.3	31.8	30.7
5. PH	719	744	720	744	744	720	4391
6. SH	14	7	7	14	22	15	79
7. RSH	699	614	494	724	712	698	3941
8. UH	6	123	219	6	10	7	371
9. POH	0	120	218	0	0	0	336
10. FOH & EFOH	4	2	2	4	6	4	22
11. MOH & EMOH	2	1	1	2	4	3	13
12. OPER BTU (GBTU)	3,944	1,979	1,934	3,703	5,996	3,981	21,537
13. NET GEN (MWH)	208	104	102	195	316	210	1155
14. ANOHR (BTU/KWH)	18962	19029	18961	18990	18975	18957	18975
15. NOF (%)	99.0	99.0	97.1	92.9	95.8	93.3	95.8
16. NSC (MW)	15	15	15	15	15	15	15

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PLANT/UNIT BIG BEND CT 2	MONTH OF: APR 95	MONTH OF: MAY 95	MONTH OF: JUN 95	MONTH OF: JUL 95	MONTH OF: AUG 95	MONTH OF: SEP 95	PERIOD WINTER 1995
1. EAF (%)	98.6	99.2	52.8	98.9	98.1	98.6	91.1
2. POF (%)	0.0	0.0	46.7	0.0	0.0	0.0	7.7
3. EUOF (%)	1.4	0.8	0.6	1.1	1.9	1.4	1.2
4. EUOR (%)	27.8	25.0	30.8	25.0	25.9	27.0	26.5
5. PH	719	744	720	744	744	720	4391
6. SH	26	18	9	24	40	27	144
7. RSH	683	720	371	712	690	683	3859
8. UH	10	6	340	8	14	10	388
9. FOH	0	0	336	0	0	0	336
10. FOH & EFOH	5	3	2	4	7	5	26
11. MOH & EMOH	5	3	2	4	7	5	26
12. OPER BTU (GBT)	24.158	16.065	8.393	22.328	36.765	25.394	133.103
13. NET GEN (MWH)	1477	981	519	1367	2255	1555	8154
14. ANOHR (BTU/KW)	16356	16376	16171	16334	16304	16331	16324
15. NOF (%)	87.4	83.8	88.7	87.6	86.7	88.6	87.1
16. NSC (MW)	65	65	65	65	65	65	65

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PLANT/UNIT BIG BEND CT 3	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
	APR 95	MAY 95	JUN 95	JUL 95	AUG 95	SEP 95	SUMMER 1995
1. EAF (%)	98.9	99.5	76.1	76.9	98.7	98.9	91.4
2. POF (%)	0.0	0.0	23.3	22.8	0.0	0.0	7.7
3. EUOF (%)	1.1	0.5	0.6	0.5	1.3	1.1	0.9
4. EUOR (%)	28.6	23.5	26.7	22.2	24.4	27.6	25.7
5. PH	719	744	720	744	744	720	4391
6. SH	20	13	11	14	31	21	110
7. RSH	691	727	537	558	703	691	3907
8. UH	6	4	172	172	10	8	374
9. POH	0	0	168	168	0	0	336
10. FOH & EFOH	4	2	2	2	5	4	19
11. MOH & EMOH	4	2	2	2	5	4	19
12. OPER BTU (GBTU)	17,944	11,689	9,967	13,386	28,289	19,187	100,482
13. NET GEN (MWH)	1096	713	614	823	1733	1174	6153
14. ANOHR (BTU/KWH)	16372	16394	16265	16265	16324	16343	16331
15. NOF (%)	84.3	84.4	85.9	90.4	86.0	86.0	86.1
16. NSC (MW)	65	65	65	65	65	65	65

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PLANT/UNIT PHILLIPS 1	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
	APR 95	MAY 95	JUN 95	JUL 95	AUG 95	SEP 95	SUMMER 1995
1. EAF (%)	98.6	98.7	98.3	97.8	96.4	96.7	97.7
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. EUOF (%)	1.4	1.3	1.7	2.4	3.6	3.3	2.3
4. EUOR (%)	17.9	18.2	18.5	18.9	18.8	18.0	18.4
5. VH	719	744	720	744	744	720	4391
6. SH	46	45	53	77	118	109	448
7. RSH	663	689	655	649	599	587	3842
8. UH	10	10	12	18	27	24	101
9. PCH	0	0	0	0	0	0	0
10. FOH & EFOH	3	3	4	6	9	8	33
11. MOH & EMOH	7	7	8	12	18	16	68
12. OPER BTU (GBTU)	7.409	7.244	8.574	12.708	19.489	17.960	73.384
13. NET GEN (MWH)	779	762	902	1336	2050	1889	7718
14. ANOHR (BTU/KWH)	9511	9507	9506	9512	9507	9508	9508
15. NOF (%)	99.6	99.6	100.1	102.1	102.2	101.9	101.3
16. NSC (MW)	17	17	17	17	17	17	17

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PLANT/UNIT PHILLIPS 2	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
	APR 95	MAY 95	JUN 95	JUL 95	AUG 95	SEP 95	SUMMER 1995
1. EAF (%)	98.6	98.8	98.3	21.9	97.2	96.7	85.1
2. POF (%)	0.0	0.0	0.0	77.4	0.0	0.0	13.1
3. EUOF (%)	1.4	1.2	1.7	0.7	2.8	3.3	1.8
4. EUOR (%)	18.5	17.3	19.0	20.0	17.9	18.5	18.3
5. PH	719	744	720	744	744	720	4391
6. SH	44	43	51	20	96	107	361
7. RSH	665	692	657	143	627	589	3373
8. UH	10	9	12	581	21	24	657
9. POH	0	0	0	576	0	0	576
10. FOH & EFOH	3	3	4	2	7	8	27
11. MOH & EMOH	7	6	8	3	14	16	54
12. OPER BTU (GBTU)	7.173	7.008	8.316	3.342	15.949	17.576	59.364
13. NET GEN (MWH)	755	737	875	351	1677	1848	6243
14. ANOHR (BTU/KWH)	9501	9509	9504	9521	9510	9511	9509
15. NOF (%)	100.9	100.8	100.9	103.2	102.8	101.6	101.7
16. NSC (MW)	17	17	17	17	17	17	17

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