



BEFORE THE  
FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 070001-EI  
IN RE: TAMPA ELECTRIC'S  
FUEL & PURCHASED POWER COST RECOVERY  
AND CAPACITY COST RECOVERY PROJECTIONS  
JANUARY 2008 THROUGH DECEMBER 2008

TESTIMONY AND EXHIBIT  
OF  
DAVID R. KNAPP

DOCUMENT NUMBER-DATE

07987 SEP-4 5

FPSC-COMMISSION CLERK

1                   BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

2                               PREPARED DIRECT TESTIMONY

3   OF

4   DAVID R. KNAPP

5

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

8

9   **A.**   My name is David R. Knapp. My business address is 702 N.  
10           Franklin Street, Tampa, Florida 33602. I am employed by  
11           Tampa Electric Company ("Tampa Electric" or "company") as  
12           a Senior Engineer in the Operations Planning area of the  
13           Resource Planning Department.

14

15   **Q.**   Please provide a brief outline of your educational  
16           background and business experience.

17

18   **A.**   I received a Bachelor of Marine Engineering degree in  
19           1986 from the Maine Maritime Academy and a Master of  
20           Business Administration from the University of Tampa in  
21           2002. Prior to joining Tampa Electric, I worked in the  
22           areas of operations engineering and management. In  
23           January 1996, I joined Tampa Electric and worked in  
24           field operations and power plant engineering. In April  
25           2000, I transferred to the Resource Planning department,

1 where I led a team that provides engineering and  
2 technical support in the development of Tampa Electric's  
3 integrated resource planning process and business  
4 planning activities. In December 2006, I transferred to  
5 the Operations Planning area of the Resource Planning  
6 department, where I provide engineering and technical  
7 support for the daily operations of Tampa Electric's  
8 generating facilities.

9  
10 **Q.** What is the purpose of your testimony?

11  
12 **A.** My testimony describes Tampa Electric's maintenance  
13 planning processes and presents Tampa Electric's  
14 methodology for determining the various factors required  
15 to compute the Generating Performance Incentive Factor  
16 ("GPIF") as ordered by the Commission.

17  
18 **Q.** Have you prepared any exhibits to support your  
19 testimony?

20  
21 **A.** Yes, Exhibit No. \_\_\_\_ (DRK-2), consisting of two  
22 documents, was prepared under my direction and  
23 supervision. Document No. 1 contains the GPIF  
24 schedules. Document No. 2 is a summary of the GPIF  
25 targets for the 2008 period.

1 **GPIF Calculations**

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

4  
5 **A.** Four of the company's coal-fired units, one integrated  
6 gasification combined cycle unit and two natural gas  
7 combined cycle units are included. These are Big Bend  
8 Units 1 through 4, Polk Unit 1 and Bayside Units 1 and  
9 2.

10  
11 **Q.** Do the exhibits you prepared comply with Commission-  
12 approved GPIF methodology?

13  
14 **A.** Yes, the documents are consistent with the GPIF  
15 Implementation Manual previously approved by the  
16 Commission. To account for the concerns presented in  
17 the testimony of Commission Staff witness Sidney W.  
18 Matlock during the 2005 fuel hearing, Tampa Electric  
19 removes outliers from the calculation of the GPIF  
20 targets. Section 3.3 of the GPIF Implementation Manual  
21 allows for removal of outliers, and the methodology was  
22 approved by the Commission in Order No. PSC-06-1057-FOF-  
23 EI issued in Docket No. 060001-EI on December 22, 2006.

24  
25 **Q.** Did Tampa Electric identify any outages as outliers?

1     **A.**    Yes.    Two outages on Big Bend Unit 1, three outages on  
2            Big Bend Unit 2, three outages on Big Bend Unit 3, and  
3            one outage on Big Bend unit 4 were identified as  
4            outlying outages; therefore, their associated forced  
5            outage hours were removed from the study.  
6  
7     **Q.**    Please describe how Tampa Electric developed the various  
8            factors associated with the GPIF.  
9  
10    **A.**    Targets were established for equivalent availability and  
11            heat rate for each unit considered for the 2008 period.  
12            A range of potential improvements and degradations were  
13            determined for each of these parameters.  
14  
15    **Q.**    How were the target values for unit availability  
16            determined?  
17  
18    **A.**    The Planned Outage Factor or POF and the Equivalent  
19            Unplanned Outage Factor or EUOF were subtracted from 100  
20            percent to determine the target Equivalent Availability  
21            Factor or EAF.  The factors for each of the seven units  
22            included within the GPIF are shown on page 5 of Document  
23            No. 1.  
24  
25            To give an example for the 2008 period, the projected

1           Equivalent Unplanned Outage Factor for Big Bend Unit 2  
2           is 14.33 percent, and the Planned Outage Factor is 8.74  
3           percent. Therefore, the target equivalent availability  
4           factor for Big Bend Unit 2 equals 76.92 percent or:

5  
6                            $100\% - [(14.34 + 8.74\%)] = 76.92\%$

7  
8           This is shown on page 4, column 3 of Document No. 1.

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

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

15  
16                            $EAF_{MAX} = 100\% - [0.8 (EUOF_T) + 0.95 (POF_T)]$

17  
18           The factors included in the above equations are the same  
19           factors that determine the target equivalent  
20           availability. To determine the maximum incentive  
21           points, a 20 percent reduction in Equivalent Forced  
22           Outage Factor or EUOF and Equivalent Maintenance Outage  
23           Factor or EMOF, plus a five percent reduction in the  
24           Planned Outage Factor are necessary. Continuing with  
25           the Big Bend Unit 2 example:

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$$EAF_{MAX} = 100\% - [0.8 (14.33\%) + 0.95 (8.74\%)] = 80.24\%$$

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

**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 during the development of the incentive. 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 2 example,

$$EAF_{MIN} = 100\% - [1.4 (14.33\%) + 1.10 (8.74\%)] = 70.31\%$$

The equivalent availability maximum and minimum for the other six units are computed in a similar manner.

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

3  
4 A. The company's planned outages for January through  
5 December 2008 are shown on page 21 of Document No. 1.  
6 four GPIF units have a major outage (28 days or greater)  
7 in 2008; therefore, four Critical Path Method diagrams  
8 are provided. Planned Outage Factors are calculated for  
9 each unit. For example, Big Bend Unit 2 is scheduled  
10 for a planned outage from November 29, 2008 to December  
11 30, 2008. There are 768 planned outage hours scheduled  
12 for the 2008 period, and a total of 8,784 hours during  
13 this 12-month period. Consequently, the Planned Outage  
14 Factor for Big Bend Unit 4 is 8.74 percent or:

15  
16 
$$\frac{768}{8,784} \times 100 = 8.74\%$$
  
17

18  
19 The factor for each unit is shown on pages 5 and 14  
20 through 20 of Document No. 1. Big Bend Unit 1 has a  
21 Planned Outage Factor of 3.8 percent. Big Bend Unit 2  
22 has a Planned Outage Factor of 8.7 percent. Big Bend  
23 Unit 3 has a Planned Outage Factor of 26.5 percent. Big  
24 Bend Unit 4 has a Planned Outage Factor of 3.8 percent.  
25 Polk Unit 1 has a Planned Outage Factor of 7.9 percent.



1 Bayside Unit 1 has a Planned Outage Factor of 3.8  
2 percent, and Bayside Unit 2 has a Planned Outage Factor  
3 of 15.3 percent.

4  
5 **Q.** How did you determine the Forced Outage and Maintenance  
6 Outage Factors for each unit?

7  
8 **A.** Graphs for both factors, adjusted for planned outages,  
9 versus time were prepared. Monthly data and 12-month  
10 ending average data were recorded. For each unit the  
11 most current 12-month ending value, June 2007, was used  
12 as a basis for the projection. All projected factors  
13 are based upon historical unit performance unless  
14 adjusted for outlying forced outages. These target  
15 factors are additive and result in an Equivalent  
16 Unplanned Outage Factor of 23.09 percent for Big Bend  
17 Unit 4. The Equivalent Unplanned Outage Factor for Big  
18 Bend Unit 4 is verified by the data shown on page 17,  
19 lines 3, 5, 10 and 11 of Document No. 1 and calculated  
20 using the following formula:

21  
22 
$$\text{EUOF} = \frac{(\text{EFOH} + \text{EMOH})}{\text{Period Hours}} \times 100$$
  
23

24 Or

25

1                                    EEOF =  $\frac{(1,573 + 455)}{8,784} \times 100 = 23.09\%$   
2  
3

4                    Relative to Big Bend Unit 4, the EEOF of 23.09 percent  
5                    forms the basis of the equivalent availability target  
6                    development as shown on pages 4 and 5 of Document No. 1.  
7

8                    **Big Bend Unit 1**

9                    The projected Equivalent Unplanned Outage Factor for  
10                   this unit is 24.04 percent.    The unit will have a  
11                   planned outage in 2008, and the Planned Outage Factor is  
12                   3.83 percent.            Therefore, the target equivalent  
13                   availability for this unit is 72.13 percent.  
14

15                   **Big Bend Unit 2**

16                   The projected Equivalent Unplanned Outage Factor for  
17                   this unit is 14.33 percent.    The unit will have a  
18                   planned outage in 2008, and the Planned Outage Factor is  
19                   8.74 percent.            Therefore, the target equivalent  
20                   availability for this unit is 76.92 percent.  
21

22                   **Big Bend Unit 3**

23                   The projected Equivalent Unplanned Outage Factor for  
24                   this unit is 26.49 percent.    The unit will have a  
25                   planned outage in 2008, and the Planned Outage Factor is

1           26.50 percent.           Therefore, the target equivalent  
2           availability for this unit is 47.01 percent.

3

4           **Big Bend Unit 4**

5           The projected Equivalent Unplanned Outage Factor for  
6           this unit is 23.09 percent.    The unit will have a  
7           planned outage in 2008, and the Planned Outage Factor is  
8           3.83 percent.           Therefore, the target equivalent  
9           availability for this unit is 73.08 percent.

10

11           **Polk Unit 1**

12           The projected Equivalent Unplanned Outage Factor for  
13           this unit is 14.91 percent.    The unit will have a  
14           planned outage in 2008, and the Planned Outage Factor is  
15           7.88 percent.           Therefore, the target equivalent  
16           availability for this unit is 77.21 percent.

17

18           **Bayside Unit 1**

19           The projected Equivalent Unplanned Outage Factor for  
20           this unit is 11.72 percent.    The unit will have a  
21           planned outage in 2008, and the Planned Outage Factor is  
22           3.83 percent.           Therefore, the target equivalent  
23           availability for this unit is 84.45 percent.

24

25           **Bayside Unit 2**

1 The projected Equivalent Unplanned Outage Factor for  
2 this unit is 1.09 percent. The unit will have a planned  
3 outage in 2008, and the Planned Outage Factor is 15.30  
4 percent. Therefore, the target equivalent availability  
5 for this unit is 83.61 percent.

6  
7 **Q.** Please summarize your testimony regarding Equivalent  
8 Availability Factor.

9  
10 **A.** The GPIF system weighted Equivalent Availability Factor  
11 of 68.60 percent is shown on Page 5 of Document No. 1.  
12 This target is similar to the January through December  
13 2006 GPIF period.

14  
15 **Q.** Why are Forced and Maintenance Outage Factors adjusted  
16 for planned outage hours?

17  
18 **A.** The adjustment makes the factors more accurate and  
19 comparable. A unit in a planned outage stage or reserve  
20 shutdown stage will not incur a forced or maintenance  
21 outage. Since the units in the GPIF are usually  
22 baseload units, reserve shutdown is generally not a  
23 factor.

24  
25 To demonstrate the effects of a planned outage, note the

1 Equivalent Unplanned Outage Rate and Equivalent  
2 Unplanned Outage Factor for Big Bend Unit 4 on page 17  
3 of Document No. 1. During the months of January through  
4 October and December, the Equivalent Unplanned Outage  
5 Rate and the Equivalent Unplanned Outage Factor are  
6 equal. This is because no planned outages are scheduled  
7 during these months. During the month of November, the  
8 Equivalent Unplanned Outage Rate exceeds the Equivalent  
9 Unplanned Outage Factor due to a scheduled planned  
10 outage. Therefore, the adjusted factors apply to the  
11 period hours after the planned outage hours have been  
12 extracted.

13  
14 **Q.** Does this mean that both rate and factor data are used  
15 in calculated data?

16  
17 **A.** Yes. Rates provide a proper and accurate method of  
18 determining the unit parameters, which are subsequently  
19 converted to factors. Therefore,

20  
21 
$$\text{FOF} + \text{MOF} + \text{POF} + \text{EAF} = 100\%$$

22 Since factors are additive, they are easier to work with  
23 and to understand.

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25 **Q.** Has Tampa Electric prepared the necessary heat rate data

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required for the determination of the GPIF?

**A.** Yes. Target heat rates and ranges of potential operation have been developed as required and have been adjusted to reflect the aforementioned agreed upon GPIF methodology.

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

**A.** Net heat rate data for the three most recent July through June annual periods formed the basis of the target development. The historical data and the target values are analyzed to assure applicability to current conditions of operation. This provides assurance that any periods of abnormal operations or equipment modifications having material effect on heat rate can be taken into consideration.

**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 same data from which the net heat rate versus net output factor curves have been developed for

1 each unit. This information is shown on pages 33  
2 through 39 of Document No. 1.

3  
4 **Q.** Please elaborate on the analysis used in the  
5 determination of the ranges.

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

17  
18 **Q.** Please summarize your heat rate projection (Btu/Net kWh)  
19 and the range about each target to allow for potential  
20 improvement or degradation for the 2008 period.

21  
22 **A.** The heat rate target for Big Bend Unit 1 is 10,910  
23 Btu/Net kWh. The range about this value, to allow for  
24 potential improvement or degradation, is  $\pm 313$  Btu/Net  
25 kWh. The heat rate target for Big Bend Unit 2 is 10,695

1 Btu/Net kWh with a range of  $\pm 297$  Btu/Net kWh. The heat  
2 rate target for Big Bend Unit 3 is 10,662 Btu/Net kWh,  
3 with a range of  $\pm 695$  Btu/Net kWh. The heat rate target  
4 for Big Bend Unit 4 is 10,840 Btu/Net kWh with a range  
5 of  $\pm 627$  Btu/Net kWh. The heat rate target for Polk Unit  
6 1 is 10,607 Btu/Net kWh with a range of  $\pm 822$  Btu/Net  
7 kWh. The heat rate target for Bayside Unit 1 is 7,320  
8 Btu/Net kWh with a range of  $\pm 129$  Btu/Net kWh. The heat  
9 rate target for Bayside Unit 2 is 7,359 Btu/Net kWh with  
10 a range of  $\pm 117$  Btu/Net kWh. A zone of tolerance of  $\pm 75$   
11 Btu/Net kWh is included within the range for each  
12 target. This is shown on page 4, and pages 7 through 13  
13 of Document No. 1.

14

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

18

19 **A.** Yes.

20

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

24

25 **A.** The next step is to calculate the savings and weighting



1 factor to be used for both average net operating heat  
2 rate and equivalent availability. This is shown on  
3 pages 7 through 13. The baseline production costing  
4 analysis was performed to calculate the total system  
5 fuel cost if all units operated at target heat rate and  
6 target availability for the period. This total system  
7 fuel cost of \$1,117,430.90 is shown on page 6, column 2.

8  
9 Multiple production cost simulations were performed to  
10 calculate total system fuel cost with each unit  
11 individually operating at maximum improvement in  
12 equivalent availability and each station operating at  
13 maximum improvement in average net operating heat rate.  
14 The respective savings are shown on page 6, column 4 of  
15 Document No. 1.

16  
17 After all of the individual savings are calculated,  
18 column 4 totals \$47,708,700 which reflects the savings  
19 if all of the units operated at maximum improvement. A  
20 weighting factor for each parameter is then calculated  
21 by dividing individual savings by the total. For Big  
22 Bend Unit 1, the weighting factor for equivalent  
23 availability is 11.14 percent as shown in the right-hand  
24 column on page 6. Pages 7 through 13 of Document No. 1  
25 show the point table, the Fuel Savings/(Loss) and the

1 equivalent availability or heat rate value. The  
2 individual weighting factor is also shown. For example,  
3 on Big Bend Unit 1, page 7, if the unit operates at 77.1  
4 percent equivalent availability, fuel savings would  
5 equal \$5,315,900, and 10 equivalent availability points  
6 would be awarded.

7  
8 The GPIF Reward/Penalty table on page 2 is a summary of  
9 the tables on pages 7 through 13. The left-hand column  
10 of this document shows the incentive points for Tampa  
11 Electric. The center column shows the total fuel  
12 savings and is the same amount as shown on page 6,  
13 column 4, or \$47,708,700. The right hand column of page  
14 2 is the estimated reward or penalty based upon  
15 performance.

16

17 **Q.** How was the maximum allowed incentive determined?

18

19 **A.** Referring to page 3, line 14, the estimated average  
20 common equity for the period January through December  
21 2008 is \$1,561,125,636. This produces the maximum  
22 allowed jurisdictional incentive of \$6,165,268 shown on  
23 line 21.

24

25 **Q.** Are there any other constraints set forth by the

1 Commission regarding the magnitude of incentive dollars?

2

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

6

7 **Q.** Please summarize your testimony on the GPIF.

8

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

14

$$\begin{aligned} \text{GPIP} = & ( 0.1114 \text{ EAP}_{\text{BB1}} + 0.0402 \text{ EAP}_{\text{BB2}} \\ & + 0.1200 \text{ EAP}_{\text{BB3}} + 0.1340 \text{ EAP}_{\text{BB4}} \\ & + 0.0847 \text{ EAP}_{\text{PK1}} + 0.0318 \text{ EAP}_{\text{BAY1}} \\ & + 0.0025 \text{ EAP}_{\text{BAY2}} + 0.0353 \text{ HRP}_{\text{BB1}} \\ & + 0.0384 \text{ HRP}_{\text{BB2}} + 0.0559 \text{ HRP}_{\text{BB3}} \\ & + 0.0874 \text{ HRP}_{\text{BB4}} + 0.0669 \text{ HRP}_{\text{PK1}} \\ & + 0.0921 \text{ HRP}_{\text{BAY1}} + 0.0994 \text{ HRP}_{\text{BAY2}} ) \end{aligned}$$

22

Where:

23

GPIP = Generating Performance Incentive Points.

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EAP = Equivalent Availability Points awarded/

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deducted for Big Bend Units 1, 2, 3, and 4,

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Polk Unit 1 and Bayside Units 1 and 2.

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

**Q.** Have you prepared a document summarizing the GPIF  
targets for the January through December 2008 period?

**A.** Yes. Document No. 2 entitled "Summary of GPIF Targets"  
provides the availability and heat rate targets for each  
unit.

**Q.** Does this conclude your testimony?

**A.** Yes.

DOCKET NO. 070001-EI  
GPIF 2008 PROJECTION FILING  
EXHIBIT NO. DRK-2  
DOCUMENT 1

EXHIBIT TO THE TESTIMONY OF  
DAVID R. KNAPP

DOCUMENT NO. 1

GPIF SCHEDULES  
JANUARY 2008 - DECEMBER 2008

DOCKET NO. 070001-EI  
GPIF 2008 PROJECTION FILING  
EXHIBIT NO. DRK-2  
DOCUMENT 2

EXHIBIT TO THE TESTIMONY OF  
DAVID R. KNAPP

DOCUMENT NO. 2

SUMMARY OF GPIF TARGETS  
JANUARY 2008 - DECEMBER 2008

TAMPA ELECTRIC COMPANY  
GENERATING PERFORMANCE INCENTIVE FACTOR  
REWARD / PENALTY TABLE - ESTIMATED  
JANUARY 2008 - DECEMBER 2008

GENERATING PERFORMANCE INCENTIVE POINTS (GPIP)	FUEL SAVINGS / (LOSS) (\$000)	GENERATING PERFORMANCE INCENTIVE FACTOR (\$000)
+10	47,708.7	6,165.3
+9	42,937.8	5,548.7
+8	38,166.9	4,932.2
+7	33,396.1	4,315.7
+6	28,625.2	3,699.2
+5	23,854.3	3,082.6
+4	19,083.5	2,466.1
+3	14,312.6	1,849.6
+2	9,541.7	1,233.1
+1	4,770.9	616.5
0	0.0	0.0
-1	(7,341.3)	(616.5)
-2	(14,682.6)	(1,233.1)
-3	(22,023.9)	(1,849.6)
-4	(29,365.2)	(2,466.1)
-5	(36,706.5)	(3,082.6)
-6	(44,047.8)	(3,699.2)
-7	(51,389.1)	(4,315.7)
-8	(58,730.4)	(4,932.2)
-9	(66,071.7)	(5,548.7)
-10	(73,413.0)	(6,165.3)

**TAMPA ELECTRIC COMPANY  
GENERATING PERFORMANCE INCENTIVE FACTOR  
CALCULATION OF MAXIMUM ALLOWED INCENTIVE DOLLARS  
(ESTIMATED)  
JANUARY 2008 - DECEMBER 2008**

Line 1	Beginning of period balance of common equity:		\$	1,535,090,000
	End of month common equity:			
Line 2	Month of January	2008	\$	1,500,630,000
Line 3	Month of February	2008	\$	1,515,323,669
Line 4	Month of March	2008	\$	1,530,161,213
Line 5	Month of April	2008	\$	1,550,072,829
Line 6	Month of May	2008	\$	1,565,250,625
Line 7	Month of June	2008	\$	1,580,577,037
Line 8	Month of July	2008	\$	1,545,637,696
Line 9	Month of August	2008	\$	1,560,772,066
Line 10	Month of September	2008	\$	1,576,054,625
Line 11	Month of October	2008	\$	1,596,009,239
Line 12	Month of November	2008	\$	1,611,636,829
Line 13	Month of December	2008	\$	1,627,417,440
Line 14	(Summation of line 1 through line 13 divided by 13)		\$	1,561,125,636
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)		\$	6,358,366
Line 18	Jurisdictional Sales			20,347,237 MWH
Line 19	Total Sales			20,984,516 MWH
Line 20	Jurisdictional Separation Factor (line 18 divided by line 19)			96.96%
<b>Line 21</b>	<b>Maximum Allowed Jurisdictional Incentive Dollars (line 17 times line 20)</b>		<b>\$</b>	<b>6,165,268</b>



**TAMPA ELECTRIC COMPANY  
GPIF TARGET AND RANGE SUMMARY  
JANUARY 2008 - DECEMBER 2008**

**EQUIVALENT AVAILABILITY**

<u>PLANT / UNIT</u>	<u>WEIGHTING FACTOR (%)</u>	<u>EAF TARGET (%)</u>	<u>EAF RANGE</u>		<u>MAX. FUEL SAVINGS (\$000)</u>	<u>MAX. FUEL LOSS (\$000)</u>
			<u>MAX. (%)</u>	<u>MIN. (%)</u>		
BIG BEND 1	11.14%	72.1	77.1	62.1	5,315.9	(10,291.1)
BIG BEND 2	4.02%	76.9	80.2	70.3	1,915.6	(4,438.6)
BIG BEND 3	12.00%	47.0	53.6	33.8	5,725.1	(11,662.2)
BIG BEND 4	13.40%	73.1	77.9	63.5	6,393.3	(11,814.9)
POLK 1	8.47%	77.2	80.6	70.5	4,039.9	(9,074.1)
BAYSIDE 1	3.18%	84.5	87.0	79.4	1,517.4	(3,451.6)
BAYSIDE 2	0.25%	83.6	84.6	81.6	121.0	(4,438.6)
<b>GPIF SYSTEM</b>	<b>52.46%</b>					

**AVERAGE NET OPERATING HEAT RATE**

<u>PLANT / UNIT</u>	<u>WEIGHTING FACTOR (%)</u>	<u>ANOHR TARGET</u>		<u>ANOHR RANGE</u>		<u>MAX. FUEL SAVINGS (\$000)</u>	<u>MAX. FUEL LOSS (\$000)</u>
		<u>Btu/kwh</u>	<u>NOF</u>	<u>MIN.</u>	<u>MAX.</u>		
BIG BEND 1	3.53%	10,910	79.4	10,598	11,223	1,684.8	(1,684.8)
BIG BEND 2	3.84%	10,695	84.4	10,398	10,992	1,832.1	(1,832.1)
BIG BEND 3	5.59%	10,662	74.4	9,967	11,357	2,669.1	(2,669.1)
BIG BEND 4	8.74%	10,840	85.7	10,213	11,467	4,170.1	(4,170.1)
POLK 1	6.69%	10,607	87.2	9,784	11,429	3,190.7	(3,190.7)
BAYSIDE1	9.21%	7,320	83.9	7,190	7,449	4,392.0	(4,392.0)
BAYSIDE 2	9.94%	7,359	80.8	7,242	7,475	4,741.6	(4,741.6)
<b>GPIF SYSTEM</b>	<b>47.54%</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 08 - DEC 08			ACTUAL PERFORMANCE JAN 06 - DEC 06			ACTUAL PERFORMANCE JAN 05 - DEC 05			ACTUAL PERFORMANCE JAN 04 - DEC 04		
			POF	EUOF	EUOR	POF	EUOF	EUOR	POF	EUOF	EUOR	POF	EUOF	EUOR
BIG BEND 1	11.14%	21.2%	3.8	24.0	25.0	18.5	26.3	32.3	6.5	32.5	34.8	7.5	25.9	28.0
BIG BEND 2	4.02%	7.7%	8.7	14.3	15.7	0.0	17.2	17.2	16.0	19.2	22.9	7.4	23.5	25.4
BIG BEND 3	12.00%	22.9%	26.5	26.5	36.0	7.9	30.2	32.8	7.1	41.4	44.6	7.9	25.0	27.1
BIG BEND 4	13.40%	25.5%	3.8	23.1	24.0	8.3	17.0	18.5	7.8	21.5	23.3	0.0	20.7	20.7
POLK 1	8.47%	16.1%	7.9	14.9	16.2	12.0	9.2	10.5	0.0	31.5	31.5	3.2	6.3	6.5
BAYSIDE 1	3.18%	6.1%	3.8	11.7	12.2	2.5	10.3	10.5	3.1	4.4	4.6	1.5	12.2	12.4
BAYSIDE 2	0.25%	0.5%	15.3	1.1	1.3	10.0	1.4	1.6	2.9	4.2	4.3	1.7	6.0	6.1
GPIF SYSTEM	52.46%	100.0%	10.1	21.3	24.2	10.0	20.3	22.7	6.4	28.7	32.8	4.6	20.1	21.2
GPIF SYSTEM WEIGHTED EQUIVALENT AVAILABILITY (%)			<u>68.6</u>			<u>69.7</u>			<u>64.9</u>			<u>75.3</u>		
			3 PERIOD AVERAGE			3 PERIOD AVERAGE								
			POF	EUOF	EUOR	EAF								
			7.0	23.0	25.6	70.0								

**AVERAGE NET OPERATING HEAT RATE (Btu/kwh)**

PLANT / UNIT	WEIGHTING FACTOR (%)	NORMALIZED WEIGHTING FACTOR	TARGET	ADJUSTED	ADJUSTED	ADJUSTED
			HEAT RATE JAN 08 - DEC 08	ACTUAL PERFORMANCE HEAT RATE JAN 06 - DEC 06	ACTUAL PERFORMANCE HEAT RATE JAN 05 - DEC 05	ACTUAL PERFORMANCE HEAT RATE JAN 04 - DEC 04
BIG BEND 1	3.53%	7.4%	10,910	10,981	10,956	10,749
BIG BEND 2	3.84%	8.1%	10,695	10,437	10,262	10,483
BIG BEND 3	5.59%	11.8%	10,662	10,807	10,485	10,768
BIG BEND 4	8.74%	18.4%	10,840	10,942	10,970	10,530
POLK 1	6.69%	14.1%	10,607	10,466	10,278	10,373
BAYSIDE 1	9.21%	19.4%	7,320	7,329	7,405	7,332
BAYSIDE 2	9.94%	20.9%	7,359	7,428	7,388	7,445
GPIF SYSTEM	47.54%	100.0%				
GPIF SYSTEM WEIGHTED AVERAGE HEAT RATE (Btu/kwh)			<u>9,370</u>	<u>9,387</u>	<u>9,318</u>	<u>9,284</u>

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TAMPA ELECTRIC COMPANY  
DERIVATION OF WEIGHTING FACTORS  
JANUARY 2008 - DECEMBER 2008  
PRODUCTION COSTING SIMULATION  
FUEL COST (\$000)

<u>UNIT PERFORMANCE INDICATOR</u>	<u>AT TARGET (1)</u>	<u>AT MAXIMUM IMPROVEMENT (2)</u>	<u>SAVINGS (3)</u>	<u>WEIGHTING FACTOR (% OF SAVINGS)</u>
<b>EQUIVALENT AVAILABILITY</b>				
EA <sub>1</sub> BIG BEND 1	1,117,430.9	1,112,115.0	5,316	11.14%
EA <sub>2</sub> BIG BEND 2	1,117,430.9	1,115,515.3	1,916	4.02%
EA <sub>3</sub> BIG BEND 3	1,117,430.9	1,111,705.8	5,725	12.00%
EA <sub>4</sub> BIG BEND 4	1,117,430.9	1,111,037.6	6,393	13.40%
EA <sub>7</sub> POLK 1	1,117,430.9	1,113,391.0	4,040	8.47%
EA <sub>8</sub> BAYSIDE 1	1,117,430.9	1,115,913.5	1,517	3.18%
EA <sub>9</sub> BAYSIDE 2	1,117,430.9	1,117,309.9	121	0.25%
<b>AVERAGE HEAT RATE</b>				
AHR <sub>1</sub> BIG BEND 1	1,117,430.9	1,115,746.1	1,685	3.53%
AHR <sub>2</sub> BIG BEND 2	1,117,430.9	1,115,598.8	1,832	3.84%
AHR <sub>3</sub> BIG BEND 3	1,117,430.9	1,114,761.8	2,669	5.59%
AHR <sub>4</sub> BIG BEND 4	1,117,430.9	1,113,260.8	4,170	8.74%
AHR <sub>7</sub> POLK 1	1,117,430.9	1,114,240.2	3,191	6.69%
AHR <sub>8</sub> BAYSIDE 1	1,117,430.9	1,113,038.9	4,392	9.21%
AHR <sub>9</sub> BAYSIDE 2	1,117,430.9	1,112,689.3	4,742	9.94%
<b>TOTAL SAVINGS</b>			<b>47,708.7</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 2008 - DECEMBER 2008

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	5,315.9	77.1	+10	1,684.8	10,598
+9	4,784.3	76.6	+9	1,516.3	10,621
+8	4,252.7	76.1	+8	1,347.9	10,645
+7	3,721.1	75.6	+7	1,179.4	10,669
+6	3,189.5	75.1	+6	1,010.9	10,693
+5	2,657.9	74.6	+5	842.4	10,717
+4	2,126.4	74.1	+4	673.9	10,740
+3	1,594.8	73.6	+3	505.4	10,764
+2	1,063.2	73.1	+2	337.0	10,788
+1	531.6	72.6	+1	168.5	10,812
					10,835
0	0.0	72.1	0	0.0	10,910
					10,985
-1	(1,029.1)	71.1	-1	(168.5)	11,009
-2	(2,058.2)	70.1	-2	(337.0)	11,033
-3	(3,087.3)	69.1	-3	(505.4)	11,057
-4	(4,116.4)	68.1	-4	(673.9)	11,080
-5	(5,145.6)	67.1	-5	(842.4)	11,104
-6	(6,174.7)	66.1	-6	(1,010.9)	11,128
-7	(7,203.8)	65.1	-7	(1,179.4)	11,152
-8	(8,232.9)	64.1	-8	(1,347.9)	11,175
-9	(9,262.0)	63.1	-9	(1,516.3)	11,199
-10	(10,291.1)	62.1	-10	(1,684.8)	11,223
	Weighting Factor =	11.14%		Weighting Factor =	3.53%

TAMPA ELECTRIC COMPANY  
GPIF TARGET AND RANGE SUMMARY  
JANUARY 2008 - DECEMBER 2008

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	1,915.6	80.2	+10	1,832.1	10,398
+9	1,724.0	79.9	+9	1,648.9	10,420
+8	1,532.5	79.6	+8	1,465.7	10,442
+7	1,340.9	79.2	+7	1,282.5	10,464
+6	1,149.4	78.9	+6	1,099.3	10,487
+5	957.8	78.6	+5	916.1	10,509
+4	766.2	78.2	+4	732.9	10,531
+3	574.7	77.9	+3	549.6	10,553
+2	383.1	77.6	+2	366.4	10,575
+1	191.6	77.3	+1	183.2	10,598
					10,620
0	0.0	76.9	0	0.0	10,695
					10,770
-1	(443.9)	76.3	-1	(183.2)	10,792
-2	(887.7)	75.6	-2	(366.4)	10,814
-3	(1,331.6)	74.9	-3	(549.6)	10,836
-4	(1,775.4)	74.3	-4	(732.9)	10,859
-5	(2,219.3)	73.6	-5	(916.1)	10,881
-6	(2,663.2)	73.0	-6	(1,099.3)	10,903
-7	(3,107.0)	72.3	-7	(1,282.5)	10,925
-8	(3,550.9)	71.6	-8	(1,465.7)	10,947
-9	(3,994.7)	71.0	-9	(1,648.9)	10,970
-10	(4,438.6)	70.3	-10	(1,832.1)	10,992
	Weighting Factor =	4.02%		Weighting Factor =	3.84%

TAMPA ELECTRIC COMPANY  
GPIF TARGET AND RANGE SUMMARY  
JANUARY 2008 - DECEMBER 2008

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	5,725.1	53.6	+10	2,669.1	9,967
+9	5,152.6	53.0	+9	2,402.2	10,029
+8	4,580.1	52.3	+8	2,135.3	10,091
+7	4,007.6	51.6	+7	1,868.4	10,153
+6	3,435.1	51.0	+6	1,601.5	10,215
+5	2,862.5	50.3	+5	1,334.6	10,277
+4	2,290.0	49.7	+4	1,067.7	10,339
+3	1,717.5	49.0	+3	800.7	10,401
+2	1,145.0	48.3	+2	533.8	10,463
+1	572.5	47.7	+1	266.9	10,525
					10,587
0	0.0	47.0	0	0.0	10,662
					10,737
-1	(1,166.2)	45.7	-1	(266.9)	10,799
-2	(2,332.4)	44.4	-2	(533.8)	10,861
-3	(3,498.7)	43.0	-3	(800.7)	10,923
-4	(4,664.9)	41.7	-4	(1,067.7)	10,985
-5	(5,831.1)	40.4	-5	(1,334.6)	11,047
-6	(6,997.3)	39.1	-6	(1,601.5)	11,109
-7	(8,163.5)	37.7	-7	(1,868.4)	11,171
-8	(9,329.8)	36.4	-8	(2,135.3)	11,233
-9	(10,496.0)	35.1	-9	(2,402.2)	11,295
-10	(11,662.2)	33.8	-10	(2,669.1)	11,357
	Weighting Factor =	12.00%		Weighting Factor =	5.59%

TAMPA ELECTRIC COMPANY  
GPIF TARGET AND RANGE SUMMARY  
JANUARY 2008 - DECEMBER 2008

BIG BEND 4

EQUIVALENT AVAILABILITY POINTS	FUEL SAVINGS / (LOSS) (\$000)	ADJUSTED ACTUAL EQUIVALENT AVAILABILITY	AVERAGE HEAT RATE POINTS	FUEL SAVINGS / (LOSS) (\$000)	ADJUSTED ACTUAL AVERAGE HEAT RATE
+10	6,393.3	77.9	+10	4,170.1	10,213
+9	5,754.0	77.4	+9	3,753.1	10,268
+8	5,114.6	76.9	+8	3,336.1	10,324
+7	4,475.3	76.5	+7	2,919.0	10,379
+6	3,836.0	76.0	+6	2,502.0	10,434
+5	3,196.6	75.5	+5	2,085.0	10,489
+4	2,557.3	75.0	+4	1,668.0	10,544
+3	1,918.0	74.5	+3	1,251.0	10,600
+2	1,278.7	74.0	+2	834.0	10,655
+1	639.3	73.6	+1	417.0	10,710
					10,765
0	0.0	73.1	0	0.0	10,840
					10,915
-1	(1,181.5)	72.1	-1	(417.0)	10,970
-2	(2,363.0)	71.2	-2	(834.0)	11,025
-3	(3,544.5)	70.2	-3	(1,251.0)	11,081
-4	(4,726.0)	69.2	-4	(1,668.0)	11,136
-5	(5,907.5)	68.3	-5	(2,085.0)	11,191
-6	(7,088.9)	67.3	-6	(2,502.0)	11,246
-7	(8,270.4)	66.3	-7	(2,919.0)	11,301
-8	(9,451.9)	65.4	-8	(3,336.1)	11,357
-9	(10,633.4)	64.4	-9	(3,753.1)	11,412
-10	(11,814.9)	63.5	-10	(4,170.1)	11,467
	Weighting Factor =	13.40%		Weighting Factor =	8.74%

TAMPA ELECTRIC COMPANY  
GPIF TARGET AND RANGE SUMMARY  
JANUARY 2008 - DECEMBER 2008

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	4,039.9	80.6	+10	3,190.7	9,784
+9	3,635.9	80.3	+9	2,871.6	9,859
+8	3,231.9	79.9	+8	2,552.5	9,934
+7	2,827.9	79.6	+7	2,233.5	10,009
+6	2,423.9	79.2	+6	1,914.4	10,083
+5	2,019.9	78.9	+5	1,595.3	10,158
+4	1,616.0	78.6	+4	1,276.3	10,233
+3	1,212.0	78.2	+3	957.2	10,307
+2	808.0	77.9	+2	638.1	10,382
+1	404.0	77.5	+1	319.1	10,457
					10,532
0	0.0	77.2	0	0.0	10,607
					10,682
-1	(907.4)	76.5	-1	(319.1)	10,756
-2	(1,814.8)	75.9	-2	(638.1)	10,831
-3	(2,722.2)	75.2	-3	(957.2)	10,906
-4	(3,629.6)	74.5	-4	(1,276.3)	10,981
-5	(4,537.1)	73.8	-5	(1,595.3)	11,055
-6	(5,444.5)	73.2	-6	(1,914.4)	11,130
-7	(6,351.9)	72.5	-7	(2,233.5)	11,205
-8	(7,259.3)	71.8	-8	(2,552.5)	11,280
-9	(8,166.7)	71.1	-9	(2,871.6)	11,354
-10	(9,074.1)	70.5	-10	(3,190.7)	11,429

Weighting Factor = 8.47%

Weighting Factor = 6.69%



TAMPA ELECTRIC COMPANY  
GPIF TARGET AND RANGE SUMMARY  
JANUARY 2008 - DECEMBER 2008

BAYSIDE 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	1,517.4	87.0	+10	4,392.0	7,190
+9	1,365.7	86.7	+9	3,952.8	7,196
+8	1,213.9	86.5	+8	3,513.6	7,201
+7	1,062.2	86.2	+7	3,074.4	7,207
+6	910.4	86.0	+6	2,635.2	7,212
+5	758.7	85.7	+5	2,196.0	7,217
+4	607.0	85.5	+4	1,756.8	7,223
+3	455.2	85.2	+3	1,317.6	7,228
+2	303.5	85.0	+2	878.4	7,234
+1	151.7	84.7	+1	439.2	7,239
					7,245
0	0.0	84.5	0	0.0	7,320
					7,395
-1	(345.2)	83.9	-1	(439.2)	7,400
-2	(690.3)	83.4	-2	(878.4)	7,405
-3	(1,035.5)	82.9	-3	(1,317.6)	7,411
-4	(1,380.6)	82.4	-4	(1,756.8)	7,416
-5	(1,725.8)	81.9	-5	(2,196.0)	7,422
-6	(2,071.0)	81.4	-6	(2,635.2)	7,427
-7	(2,416.1)	80.9	-7	(3,074.4)	7,433
-8	(2,761.3)	80.4	-8	(3,513.6)	7,438
-9	(3,106.4)	79.9	-9	(3,952.8)	7,443
-10	(3,451.6)	79.4	-10	(4,392.0)	7,449
	Weighting Factor =	3.18%		Weighting Factor =	9.21%

TAMPA ELECTRIC COMPANY  
GPIF TARGET AND RANGE SUMMARY  
JANUARY 2008 - DECEMBER 2008

BAYSIDE 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	121.0	84.6	+10	4,741.6	7,242
+9	108.9	84.5	+9	4,267.5	7,246
+8	96.8	84.4	+8	3,793.3	7,251
+7	84.7	84.3	+7	3,319.1	7,255
+6	72.6	84.2	+6	2,845.0	7,259
+5	60.5	84.1	+5	2,370.8	7,263
+4	48.4	84.0	+4	1,896.7	7,267
+3	36.3	83.9	+3	1,422.5	7,271
+2	24.2	83.8	+2	948.3	7,275
+1	12.1	83.7	+1	474.2	7,280
					7,284
0	0.0	83.6	0	0.0	7,359
					7,434
-1	(443.9)	83.4	-1	(474.2)	7,438
-2	(887.7)	83.2	-2	(948.3)	7,442
-3	(1,331.6)	83.0	-3	(1,422.5)	7,446
-4	(1,775.4)	82.8	-4	(1,896.7)	7,450
-5	(2,219.3)	82.6	-5	(2,370.8)	7,455
-6	(2,663.2)	82.4	-6	(2,845.0)	7,459
-7	(3,107.0)	82.2	-7	(3,319.1)	7,463
-8	(3,550.9)	82.0	-8	(3,793.3)	7,467
-9	(3,994.7)	81.8	-9	(4,267.5)	7,471
-10	(4,438.6)	81.6	-10	(4,741.6)	7,475
	Weighting Factor =	0.25%		Weighting Factor =	9.94%

TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
JANUARY 2008 - DECEMBER 2008

PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
BIG BEND 1	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	2008
1. EAF (%)	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	47.5	67.7	75.0	75.0	72.13
2. POF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.7	9.7	0.0	0.0	3.83
3. EUOF	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	15.8	22.6	25.0	25.0	24.04
4. EUOR	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
5. PH	744	696	744	720	744	720	744	744	720	744	720	744	8,784
6. SH	624	583	624	603	624	603	624	624	383	562	603	624	7,080
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	120	113	120	117	120	117	120	120	337	182	117	120	1704
9. POH	0	0	0	0	0	0	0	0	264	72	0	0	336
10. FOH & EFOH	158	148	158	153	158	153	158	158	97	143	153	158	1,795
11. MOH & EMOH	28	26	28	27	28	27	28	28	17	25	27	28	316
12. OPER BTU (GBTU)	2,053	1,922	2,043	1,980	2,046	1,980	2,046	2,046	1,257	1,845	1,989	2,047	23,251
13. NET GEN (MWH)	187,735	175,727	186,581	181,816	187,895	181,849	187,883	187,901	115,436	169,411	181,879	187,020	2,131,133
14. ANOHR (Btu/kwh)	10,937	10,936	10,947	10,889	10,889	10,889	10,889	10,889	10,889	10,889	10,935	10,943	10,910
15. NOF (%)	78.2	78.3	77.7	80.4	80.4	80.4	80.4	80.4	80.4	80.3	78.3	77.9	79.4
16. NPC (MW)	385	385	385	375	375	375	375	375	375	375	385	385	379
17. ANOHR EQUATION	ANOHR = NOF(		-22.19	) +	12.672.08								

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TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
JANUARY 2008 - DECEMBER 2008

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	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	2008
1. EAF (%)	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	78.7	2.7	76.92
2. POF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	96.8	8.74
3. EUOF	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	14.7	0.5	14.33
4. EUOR	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7
5. PH	744	696	744	720	744	720	744	744	720	744	720	744	8,784
6. SH	696	651	696	673	696	673	696	696	673	696	629	22	7,495
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	48	45	48	47	48	47	48	48	47	48	91	722	1,289
9. POH	0	0	0	0	0	0	0	0	0	0	48	720	768
10. FOH & EFOH	114	107	114	110	114	110	114	114	110	114	103	4	1,227
11. MOH & EMOH	3	3	3	3	3	3	3	3	3	3	3	0	32
12. OPER BTU (GBTU)	2,465	2,296	2,445	2,358	2,436	2,358	2,434	2,432	2,358	2,436	2,228	78	26,327
13. NET GEN (MWH)	230,248	214,345	228,197	220,678	228,042	220,705	227,769	227,584	220,669	228,012	208,183	7,277	2,461,709
14. ANOHR (Btu/kwh)	10,704	10,710	10,715	10,684	10,684	10,683	10,685	10,686	10,684	10,684	10,703	10,725	10,695
15. NOF (%)	83.8	83.4	83.0	85.1	85.1	85.1	85.0	85.0	85.1	85.1	83.9	82.4	84.4
16. NPC (MW)	395	395	395	385	385	385	385	385	385	385	395	395	389
17. ANOHR EQUATION	ANOHR = NOF( -15.00 ) + 11,960.68												

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TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
JANUARY 2008 - DECEMBER 2008

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-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	2008
1. EAF (%)	0.0	0.0	0.0	51.2	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	47.01
2. POF	100.0	100.0	100.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.50
3. EUOF	0.0	0.0	0.0	28.8	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	26.49
4. EUOR	0.0	0.0	0.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
5. PH	744	696	744	720	744	720	744	744	720	744	720	744	8,784
6. SH	0	0	0	463	597	578	597	597	578	597	578	597	5,182
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	744	696	744	257	147	142	147	147	142	147	142	147	3,602
9. POH	744	696	744	144	0	0	0	0	0	0	0	0	2,328
10. FOH & EFOH	0	0	0	163	211	204	211	211	204	211	204	211	1,832
11. MOH & EMOH	0	0	0	44	57	55	57	57	55	57	55	57	495
12. OPER.BTU (GBTU)	0	0	0	1,450	1,873	1,812	1,853	1,842	1,808	1,870	1,822	1,854	16,208
13. NET GEN (MWH)	0	0	0	136,708	176,669	170,999	174,015	172,534	170,368	176,308	170,345	172,246	1,520,192
14. ANOHR (Bru/kwh)	13,900	13,900	13,900	10,605	10,599	10,599	10,649	10,677	10,611	10,606	10,694	10,762	10,662
15. NOF (%)	0.0	0.0	0.0	75.7	75.9	75.9	74.7	74.1	75.6	75.7	73.7	72.1	74.4
16. NPC (MW)	400	400	400	390	390	390	390	390	390	390	400	400	394
17. ANOHR EQUATION	ANOHR = NOF( -43.50 ) + 13,899.80												

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TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
JANUARY 2008 - DECEMBER 2008

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-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	2008
1. EAF (%)	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	40.5	76.0	73.08
2. POF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.7	0.0	3.83
3. EUOF	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	12.8	24.0	23.09
4. EUOR	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
5. PH	744	696	744	720	744	720	744	744	720	744	720	744	8,784
6. SH	622	582	622	602	622	602	622	622	602	622	321	622	7,064
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	122	114	122	118	122	118	122	122	118	122	399	122	1,720
9. POH	0	0	0	0	0	0	0	0	0	0	336	0	336
10. FOH & EFOH	139	130	139	134	139	134	139	139	134	139	72	139	1,573
11. MOH & EMOH	40	37	40	39	40	39	40	40	39	40	21	40	455
12. OPER BTU (GBTU)	2,557	2,380	2,497	2,440	2,525	2,443	2,501	2,484	2,439	2,522	1,323	2,506	28,623
13. NET GEN (MWH)	235,944	219,298	228,747	225,745	233,810	226,201	230,883	228,772	225,711	233,328	122,211	229,828	2,640,478
14. ANOHR (Btu/kwh)	10,837	10,854	10,915	10,807	10,801	10,802	10,854	10,857	10,808	10,807	10,828	10,903	10,840
15. NOF (%)	85.8	85.3	83.2	86.8	87.0	87.0	85.9	85.1	86.8	86.8	86.1	83.6	85.7
16. NPC (MW)	442	442	442	432	432	432	432	432	432	432	442	442	436
17. ANOHR EQUATION	ANOHR = NOF(		-29.85	) +	13,398.36								

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TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
JANUARY 2008 - DECEMBER 2008

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 I	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	2008
1. EAF (%)	83.8	28.9	59.5	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	81.6	77.21
2. POF	0.0	65.5	29.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	7.88
3. EUOF	16.2	5.6	11.5	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	15.8	14.91
4. EUOR	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
5. PH	744	696	744	720	744	720	744	744	720	744	720	744	8,784
6. SH	667	212	476	645	667	645	667	667	645	667	645	516	7,119
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	77	484	268	75	77	75	77	77	75	77	75	228	1,665
9. POH	0	456	216	0	0	0	0	0	0	0	0	20	692
10. FOH & EFOH	73	24	52	71	73	71	73	73	71	73	71	71	793
11. MOH & EMOH	47	15	34	46	47	46	47	47	46	47	46	46	517
12. OPER BTU (GBTU)	1,604	507	1,139	1,532	1,586	1,534	1,580	1,577	1,532	1,586	1,550	1,235	16,963
13. NET GEN (MWH)	151,179	47,745	107,308	144,501	149,622	144,761	149,002	148,739	144,576	149,380	146,105	116,342	1,599,260
14. ANOHR (Btu/kwh)	10,608	10,614	10,613	10,599	10,598	10,597	10,602	10,604	10,598	10,620	10,608	10,613	10,607
15. NOF (%)	87.2	86.6	86.7	87.9	88.0	88.0	87.6	87.4	87.9	86.1	87.1	86.7	87.2
16. NPC (MW)	260	260	260	255	255	255	255	255	255	260	260	260	258
17. ANOHR EQUATION	ANOHR = NOF(                    -12.42                    ) +                    11,690.03												

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TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA

JANUARY 2008 - DECEMBER 2008

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
BAYSIDE 1	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	2008
1. EAF (%)	87.8	87.8	68.0	87.8	87.8	87.8	87.8	87.8	87.8	87.8	67.3	87.8	84.45
2. POF	0.0	0.0	22.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.3	0.0	3.83
3. EUOF	12.2	12.2	9.4	12.2	12.2	12.2	12.2	12.2	12.2	12.2	9.3	12.2	11.72
4. EUOR	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.19
5. PH	744	696	744	720	744	720	744	744	720	744	720	744	8,784
6. SH	503	575	470	567	510	481	521	581	541	501	468	633	6,349
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	241	121	274	153	234	239	225	163	179	243	252	111	2,435
9. POH	0	0	168	0	0	0	0	0	0	0	168	0	336
10. FOH & EFOH	48	45	37	46	48	46	48	48	46	48	35	48	543
11. MOH & EMOH	43	40	33	42	43	42	43	43	42	43	32	43	487
12. OPER BTU (GBTU)	2,011	2,431	2,210	2,691	2,262	2,152	2,322	2,574	2,396	2,230	2,101	3,168	28,553
13. NET GEN (MWH)	272,716	330,382	301,450	369,266	309,400	294,471	317,694	352,000	327,692	305,103	287,546	433,246	3,900,966
14. ANOHR (Btu/kwh)	7,374	7,360	7,330	7,288	7,311	7,308	7,309	7,311	7,311	7,309	7,307	7,311	7,320
15. NOF (%)	68.3	72.5	81.0	92.8	86.4	87.3	86.9	86.3	86.2	86.8	87.6	86.3	83.9
16. NPC (MW)	793	793	793	702	702	702	702	702	702	702	702	793	732
17. ANOHR EQUATION	ANOHR = NOF(		-3.51	) +									7,614.23

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TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
JANUARY 2008 - DECEMBER 2008

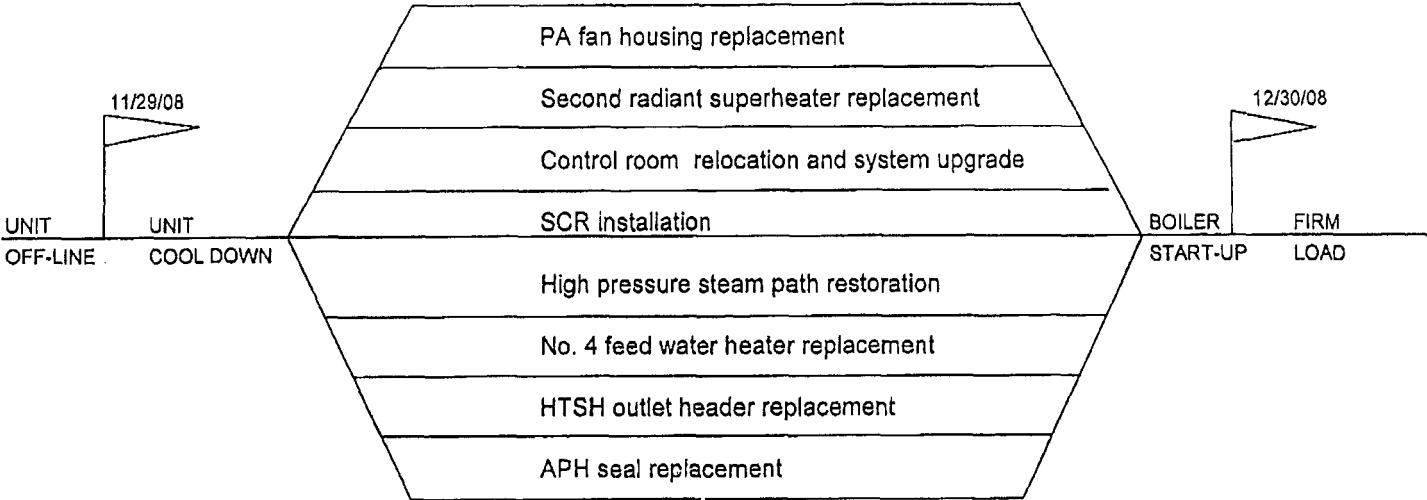
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BAYSIDE 2	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	2008
1. EAF (%)	98.7	98.7	44.6	0.0	92.3	98.7	98.7	98.7	98.7	98.7	98.7	76.4	83.61
2. POF	0.0	0.0	54.8	100.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0	22.6	15.30
3. EUOF	1.3	1.3	0.6	0.0	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.0	1.09
4. EUOR	1.3	1.3	1.3	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.29
5. PH	744	696	744	720	744	720	744	744	720	744	720	744	8,784
6. SH	290	509	291	0	606	633	728	721	679	598	508	471	6,033
7. RSH	0	0	0	0	0	0	0	0	0	0	0	0	0
8. UH	454	187	453	720	138	87	16	23	41	146	212	273	2,751
9. POH	0	0	408	720	48	0	0	0	0	0	0	168	1,344
10. FOH & EFOH	3	3	1	0	3	3	3	3	3	3	3	3	32
11. MOH & EMOH	6	6	3	0	6	6	6	6	6	6	6	5	63
12. OPER BTU (GBTU)	1,474	2,502	1,817	0	3,573	3,748	4,372	4,338	4,044	3,379	2,638	2,836	34,763
13. NET GEN (MWH)	197,837	335,280	246,906	0	487,717	511,784	597,612	593,118	552,504	459,847	356,965	384,522	4,724,092
14. ANOHR (Btu/kwh)	7,449	7,463	7,358	7,828	7,325	7,323	7,315	7,314	7,320	7,347	7,389	7,375	7,359
15. NOF (%)	65.2	62.8	80.9	0.0	86.5	86.9	88.3	88.5	87.5	82.7	75.6	77.9	80.8
16. NPC (MW)	1048	1048	1048	930	930	930	930	930	930	930	930	1048	969
17. ANOHR EQUATION	ANOHR = NOF(		-5.81	) +	7,828.21								

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**TAMPA ELECTRIC COMPANY  
PLANNED OUTAGE SCHEDULE (ESTIMATED)  
GPIF UNITS  
JANUARY 2008 - DECEMBER 2008**

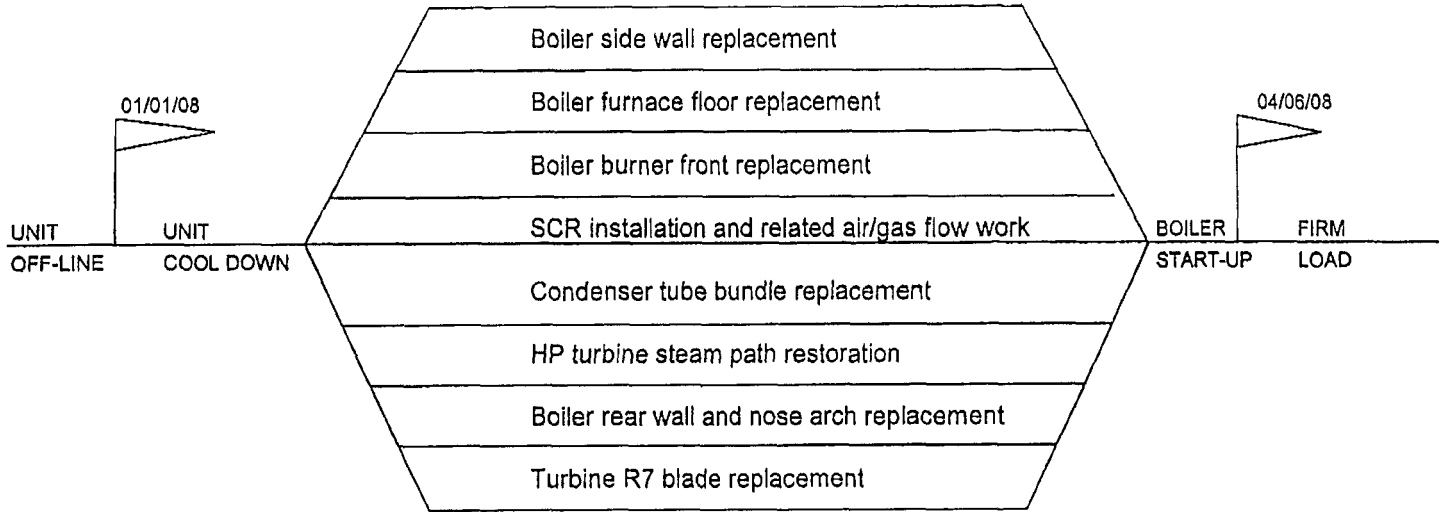
<u>PLANT / UNIT</u>	<u>PLANNED OUTAGE DATES</u>	<u>OUTAGE DESCRIPTION</u>
BIG BEND 1	Sep 20 - Oct 03	Fuel System Clean-up
+ BIG BEND 2	Nov 29 - Dec 30	SCR Outage
+ BIG BEND 3	Jan 01 - Apr 06	SCR Outage
BIG BEND 4	Nov 01 - Nov 14	Fuel System Clean-up
+ POLK 1	Feb 11 - Mar 09 Dec 01 - Dec 07	Gasifier / CT Outage Gasifier Outage
BAYSIDE 1	Mar 03 - Mar 09 Nov 24 - Nov 30	Fuel System Clean-up Fuel System Clean-up
+ BAYSIDE 2	Mar 15 - May 02 Dec 08 - Dec 14	Combustion Path Inspection & Steam Turbine Fuel System Clean-up

TAMPA ELECTRIC COMPANY  
CRITICAL PATH METHOD DIAGRAMS  
GPIF UNITS > FOUR WEEKS  
JANUARY 2008 - DECEMBER 2008



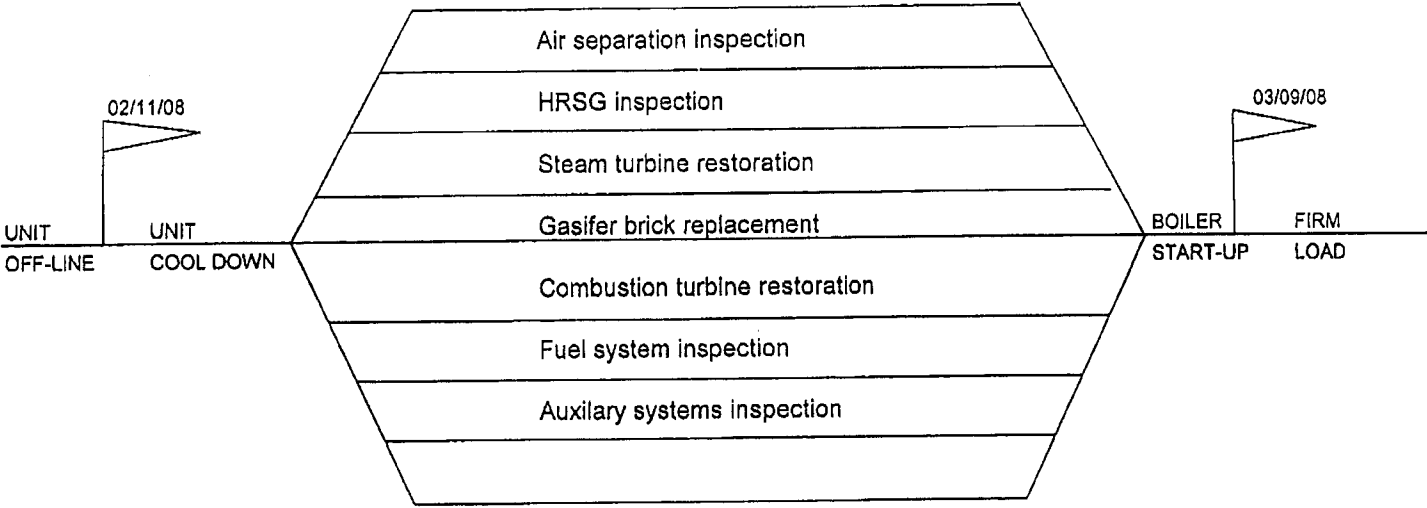
TAMPA ELECTRIC COMPANY  
BIG BEND UNIT 2  
PLANNED OUTAGE 2008  
PROJECTED CPM  
8/15/2008

**TAMPA ELECTRIC COMPANY  
CRITICAL PATH METHOD DIAGRAMS  
GPIF UNITS > FOUR WEEKS  
JANUARY 2008 - DECEMBER 2008**



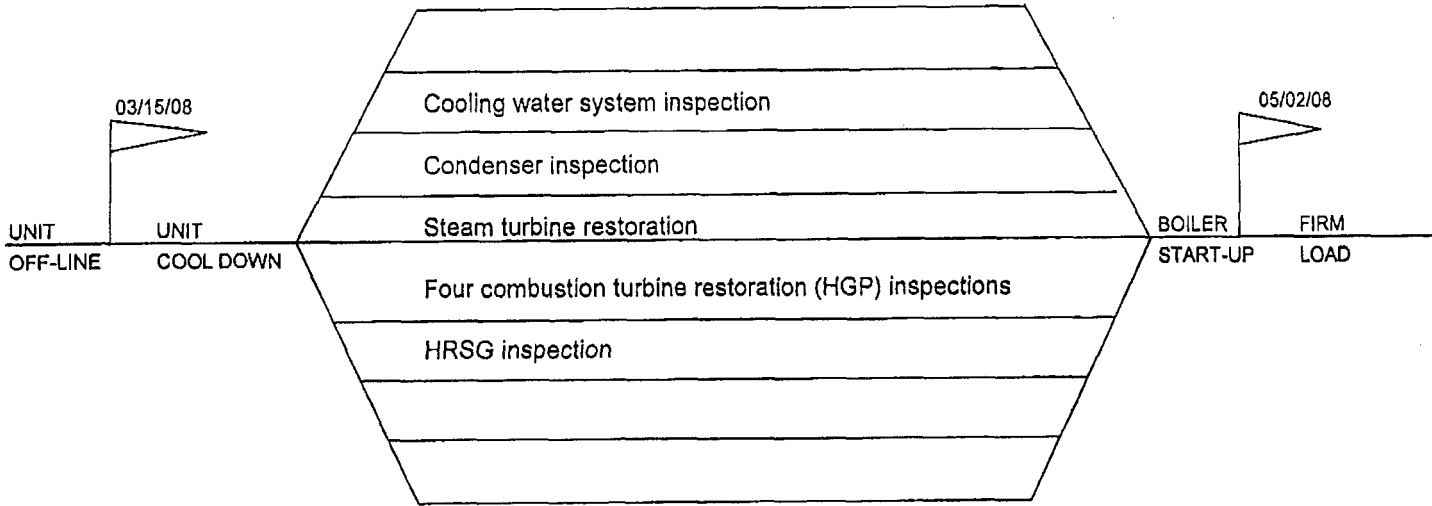
TAMPA ELECTRIC COMPANY  
BIG BEND UNIT 3  
PLANNED OUTAGE 2008  
PROJECTED CPM  
8/15/2008

TAMPA ELECTRIC COMPANY  
CRITICAL PATH METHOD DIAGRAMS  
GPIF UNITS > FOUR WEEKS  
JANUARY 2008 - DECEMBER 2008



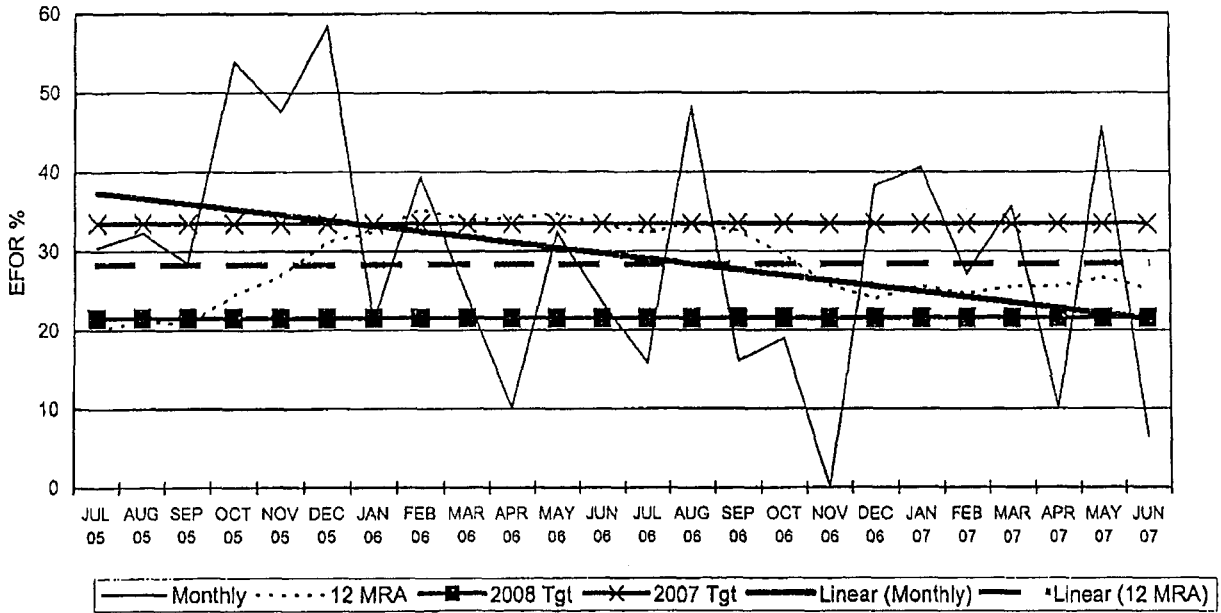
TAMPA ELECTRIC COMPANY  
POLK UNIT 1  
PLANNED OUTAGE 2008  
PROJECTED CPM  
8/15/2007

TAMPA ELECTRIC COMPANY  
CRITICAL PATH METHOD DIAGRAMS  
GPIF UNITS > FOUR WEEKS  
JANUARY 2008 - DECEMBER 2008

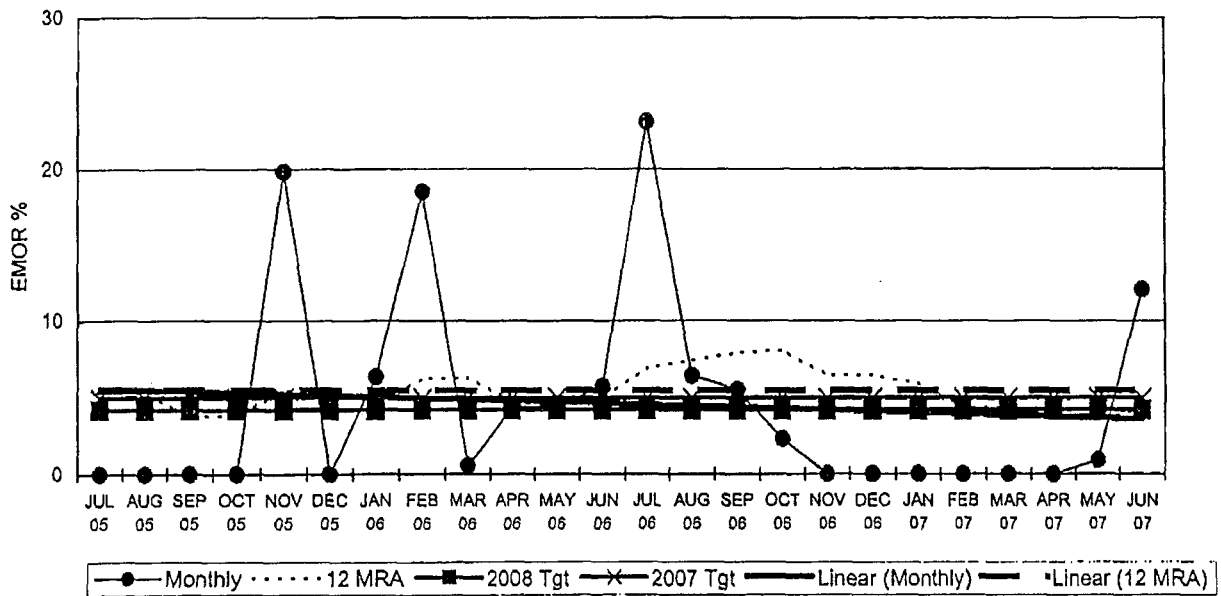


TAMPA ELECTRIC COMPANY  
BAYSIDE UNIT 2  
PLANNED OUTAGE 2008  
PROJECTED CPM  
8/15/2007

**Big Bend Unit 1**  
 EFOR

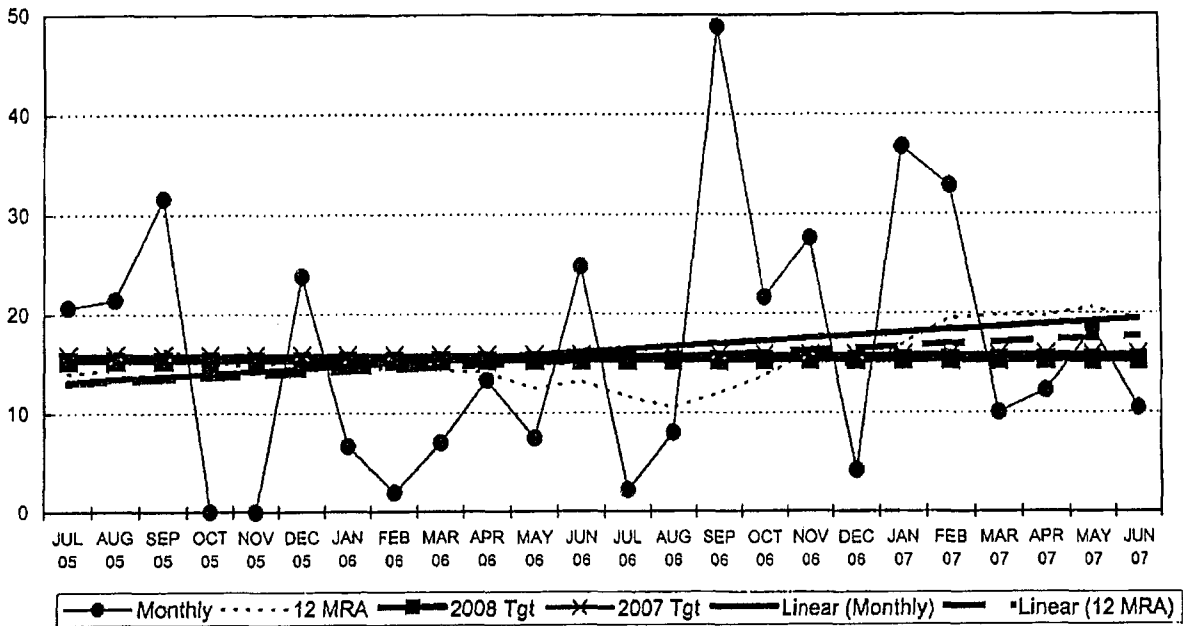


**Big Bend Unit 1**  
 EMOR

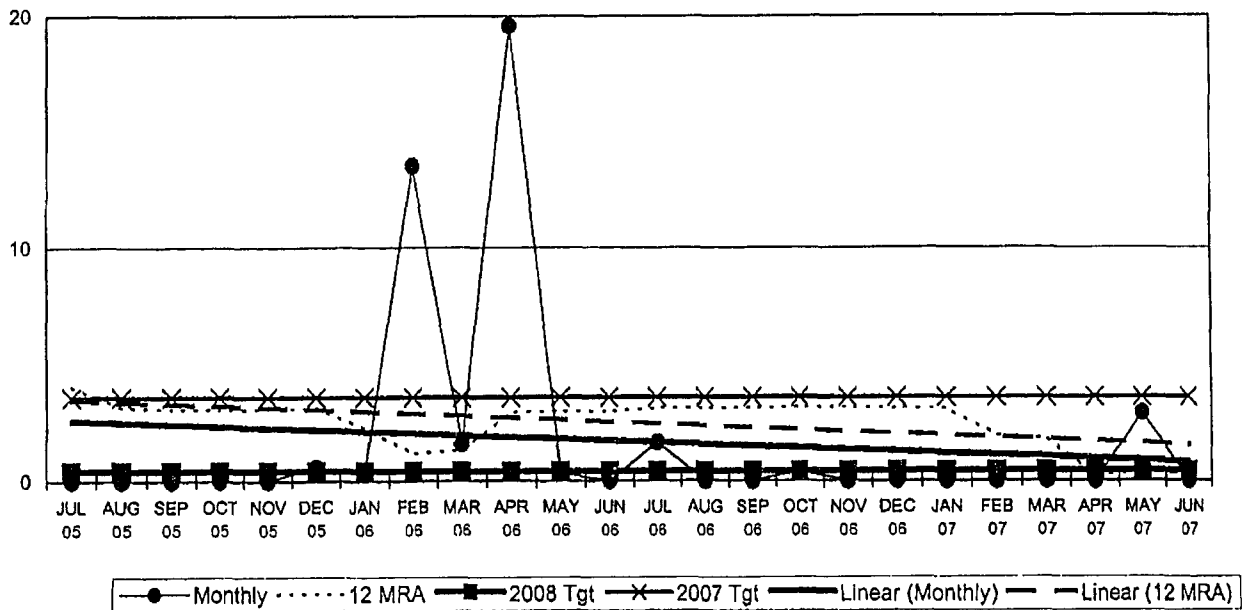


12 MRA = 12 Month Rolling Average

**Big Bend Unit 2**  
 EFOR



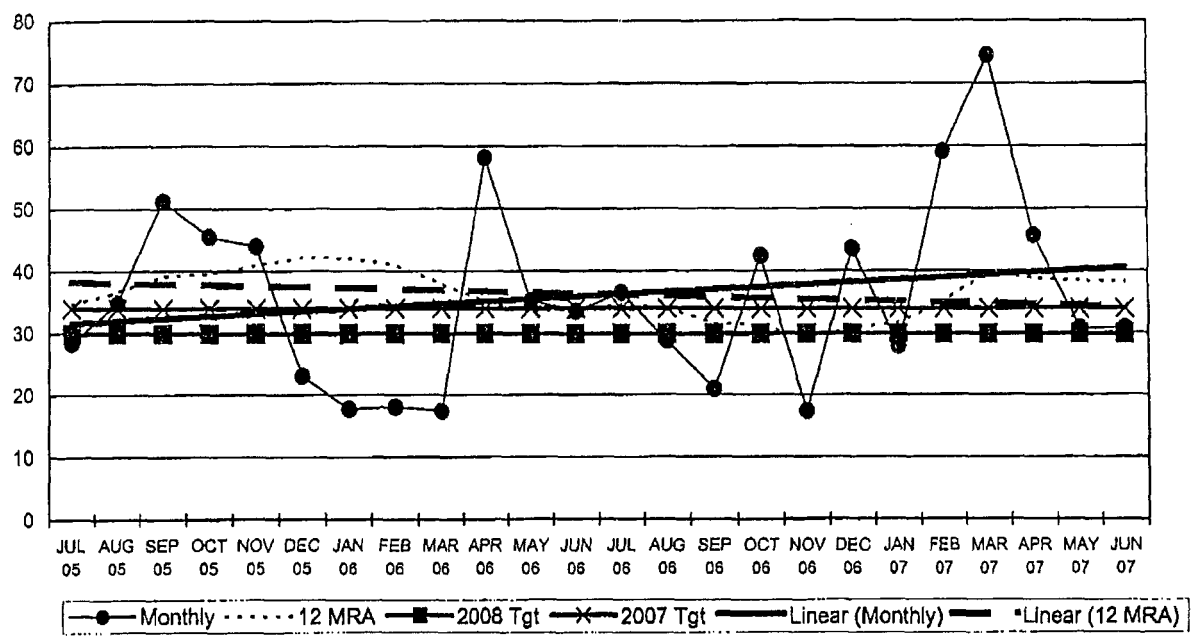
**Big Bend Unit 2**  
 EMOR



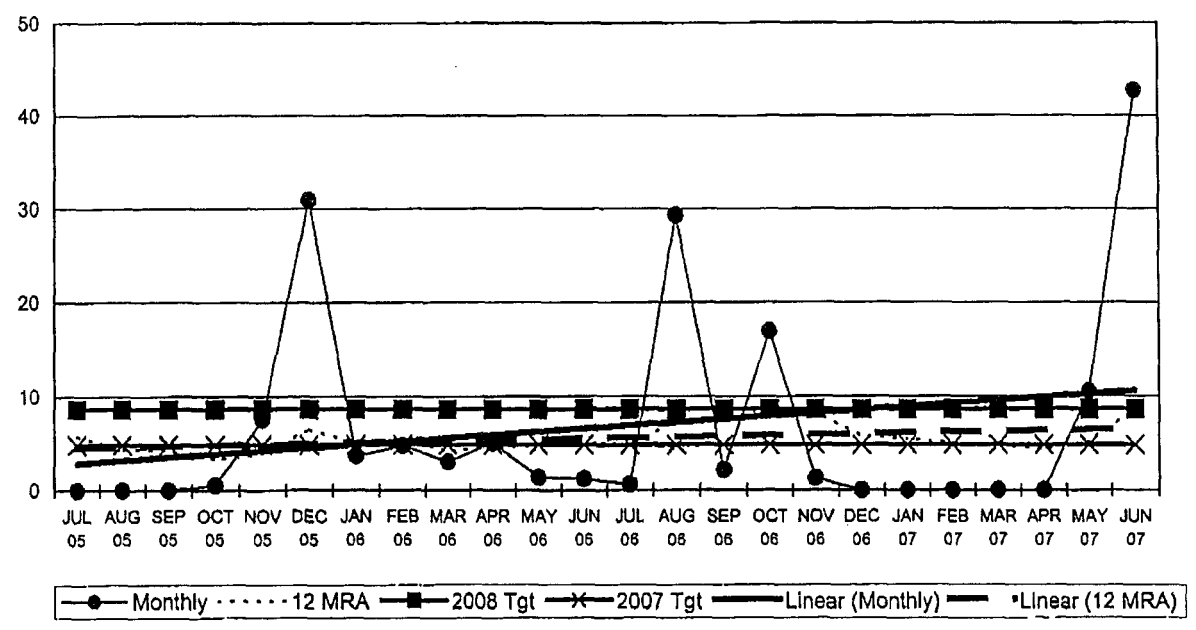
12 MRA = 12 Month Rolling Average



**Big Bend Unit 3**  
 EFOR

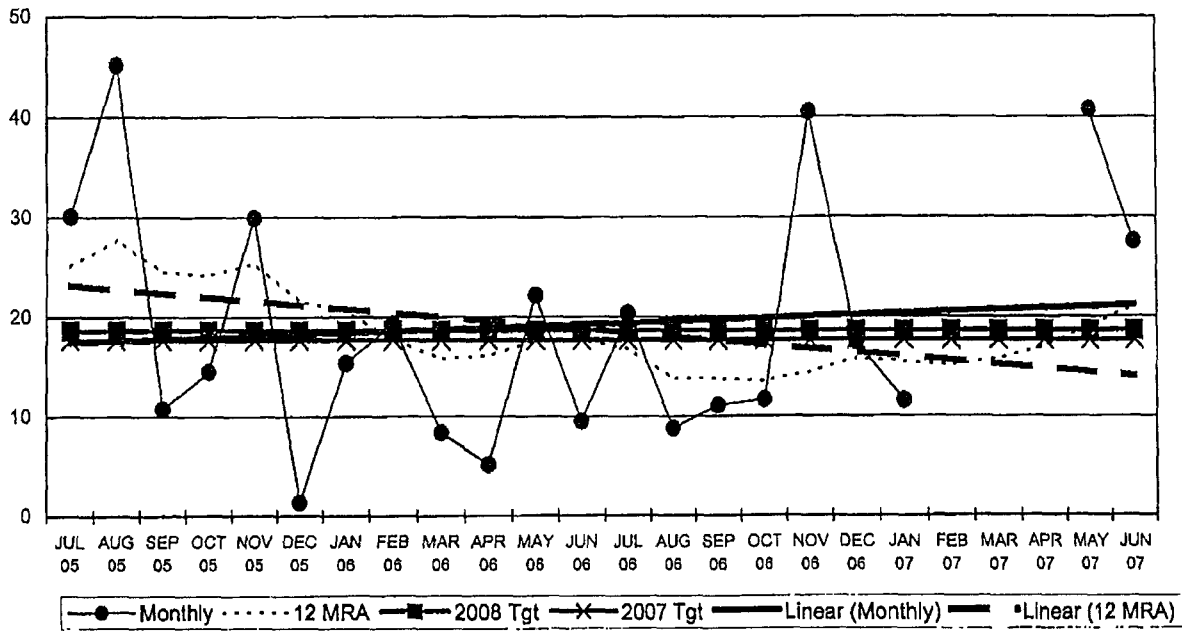


**Big Bend Unit 3**  
 EMOR

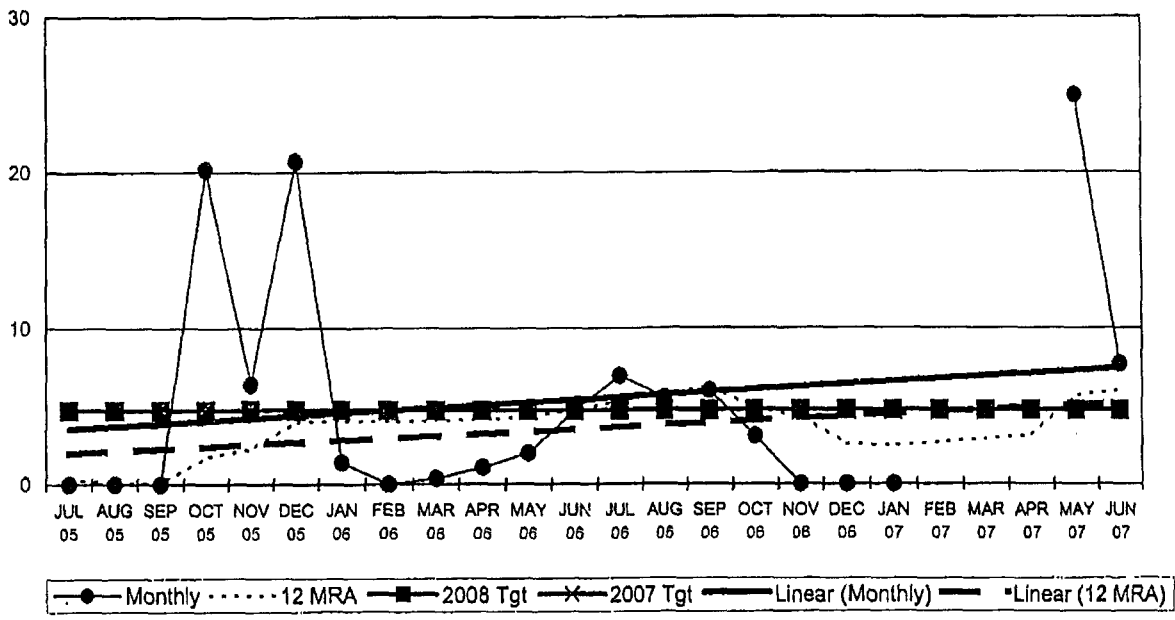


12 MRA = 12 Month Rolling Average

Big Bend Unit 4  
 EFOR



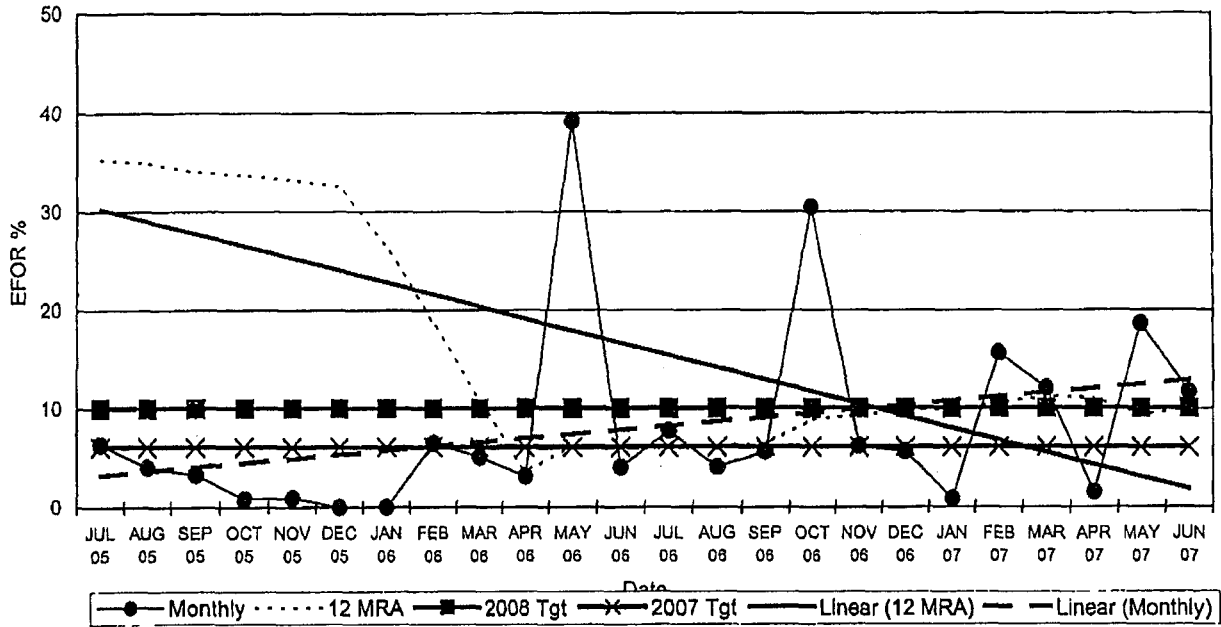
Big Bend Unit 4  
 EMOR



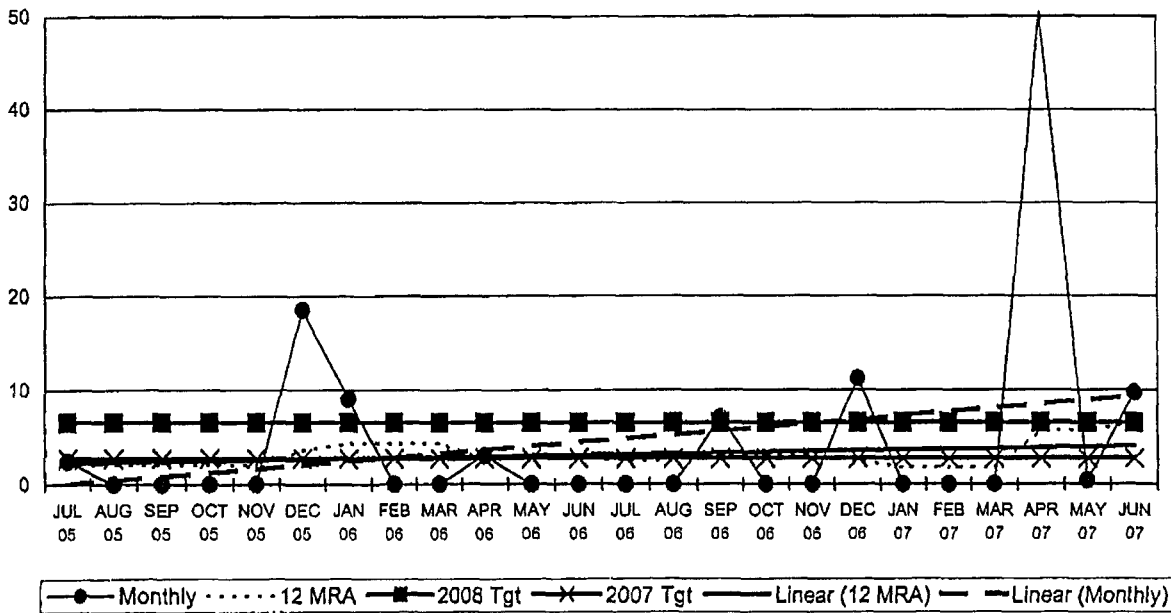
Note: Big Bend Unit 4 was offline for SCR Installation from 2/1/2007 to 5/19/2007; therefore, data is not available for the months of February, March and April.

12 MRA = 12 Month Rolling Average

Polk Unit 1  
 EFOR

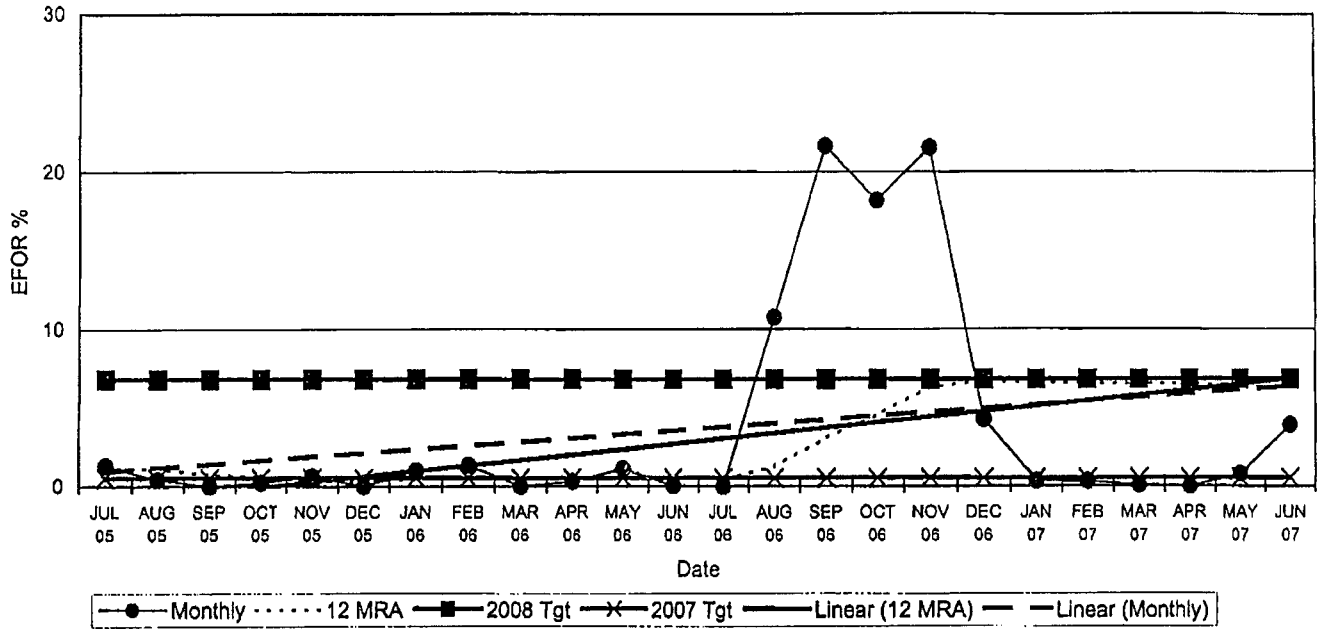


Polk Unit 1  
 EMOR

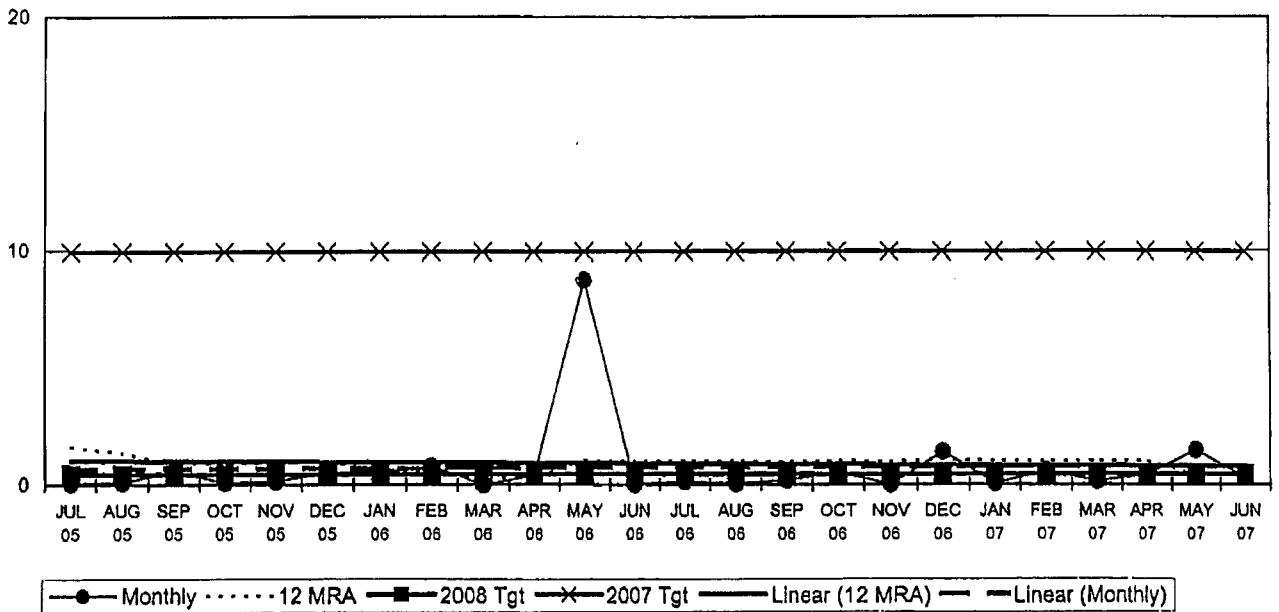


12 MRA = 12 Month Rolling Average

**Bayside Unit 1**  
 EFOR

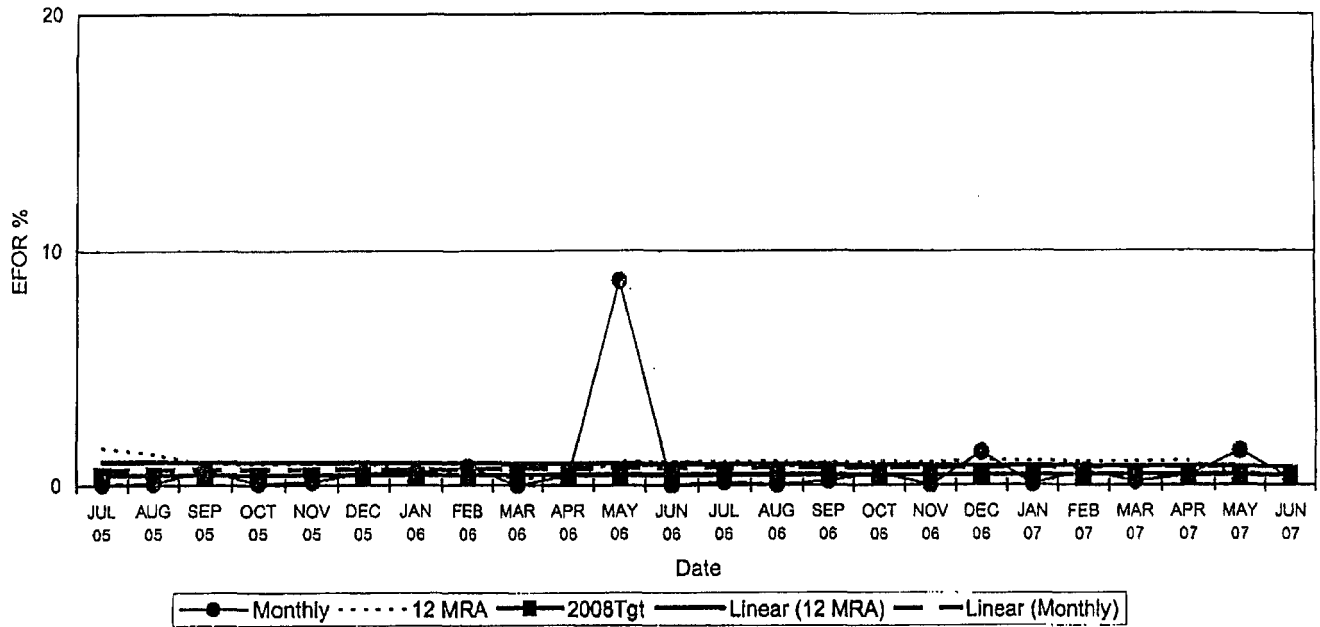


**Bayside Unit 1**  
 EMOR

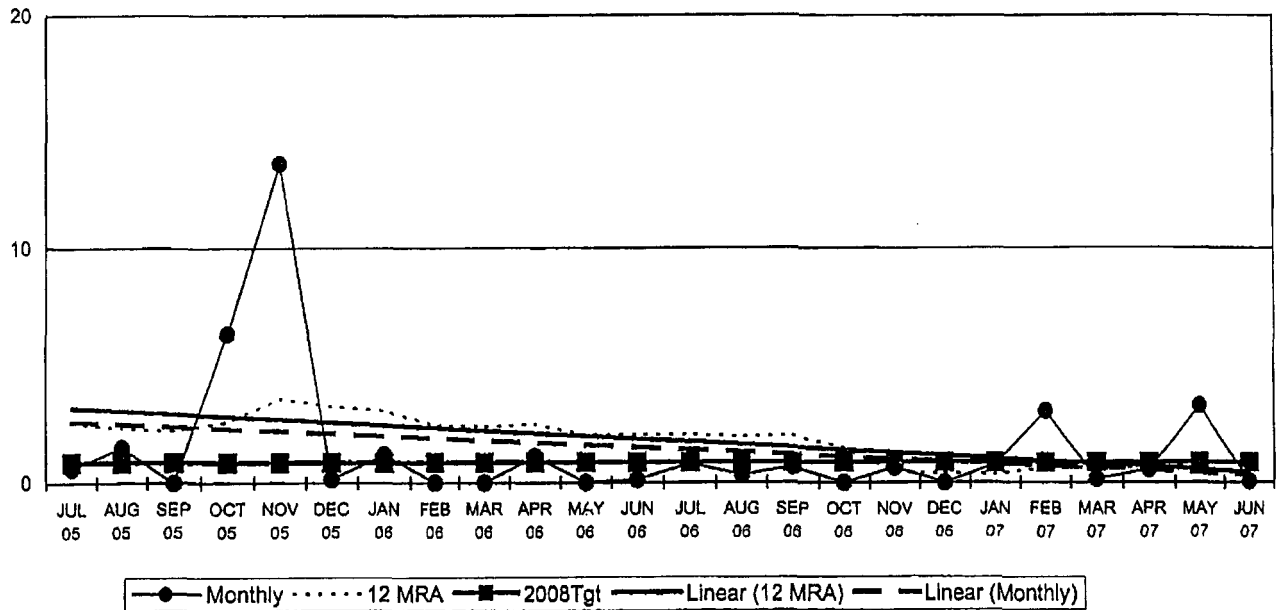


12 MRA = 12 Month Rolling Average

**Bayside Unit 2**  
 EFOR

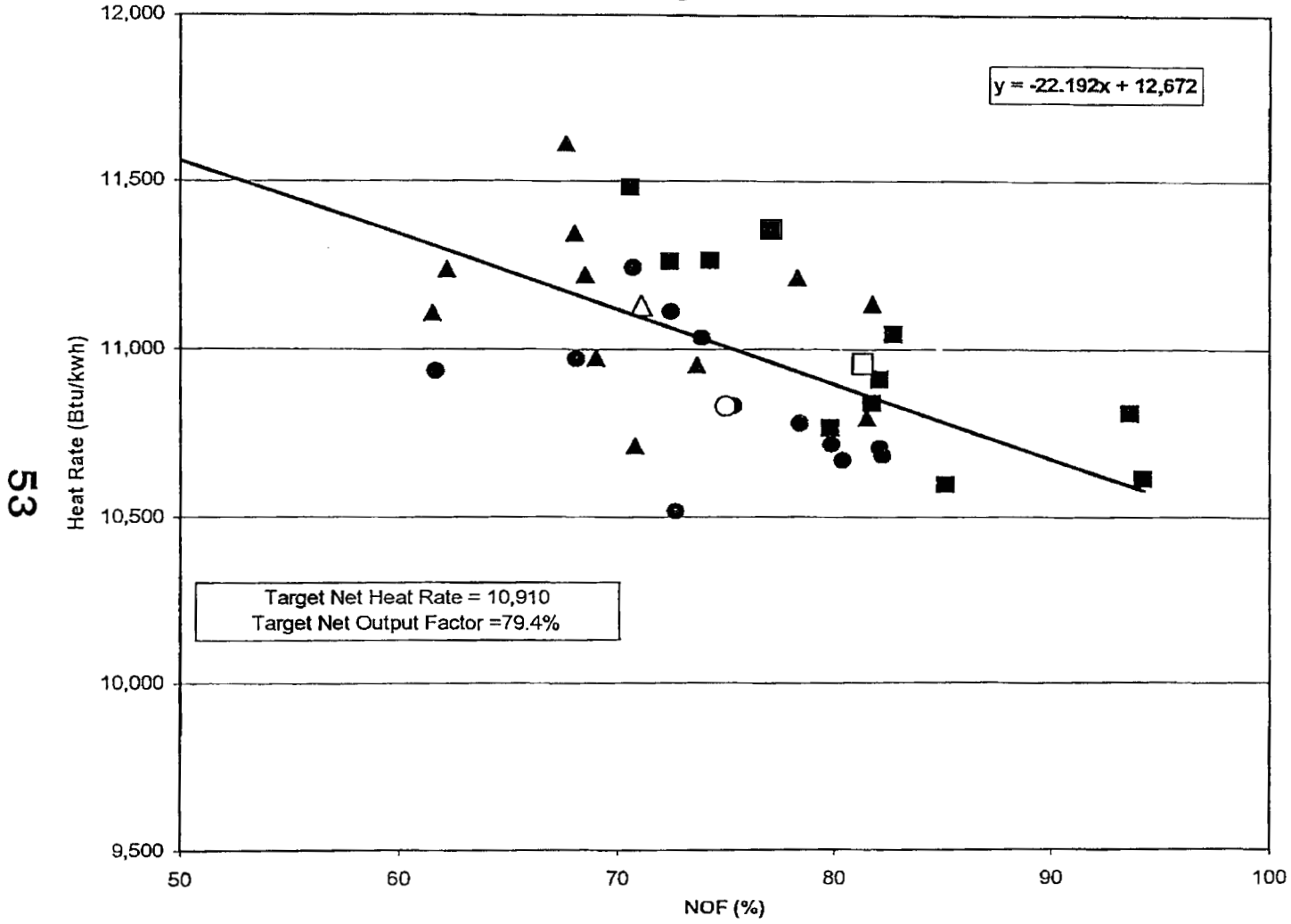


**Bayside Unit 2**  
 EMOR



12 MRA = 12 Month Rolling Average

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

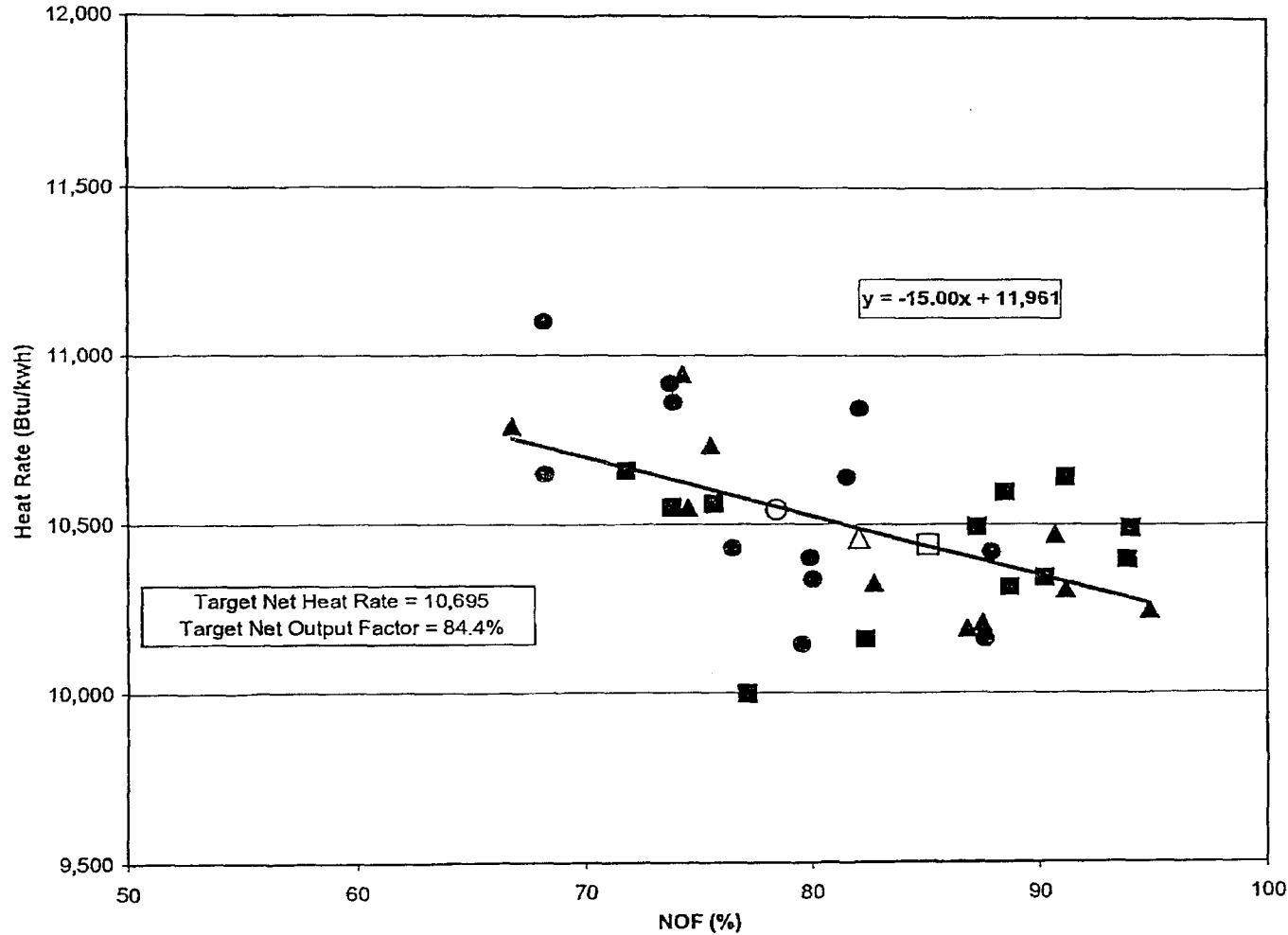


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● JUL 04 - JUN 05    ▲ JUL 05 - JUN 06    ■ JUL 06 - JUN 07    ○ Avg 04-05    △ Avg 05-06    □ Avg 06-07    — Linear (3 Year Trend)

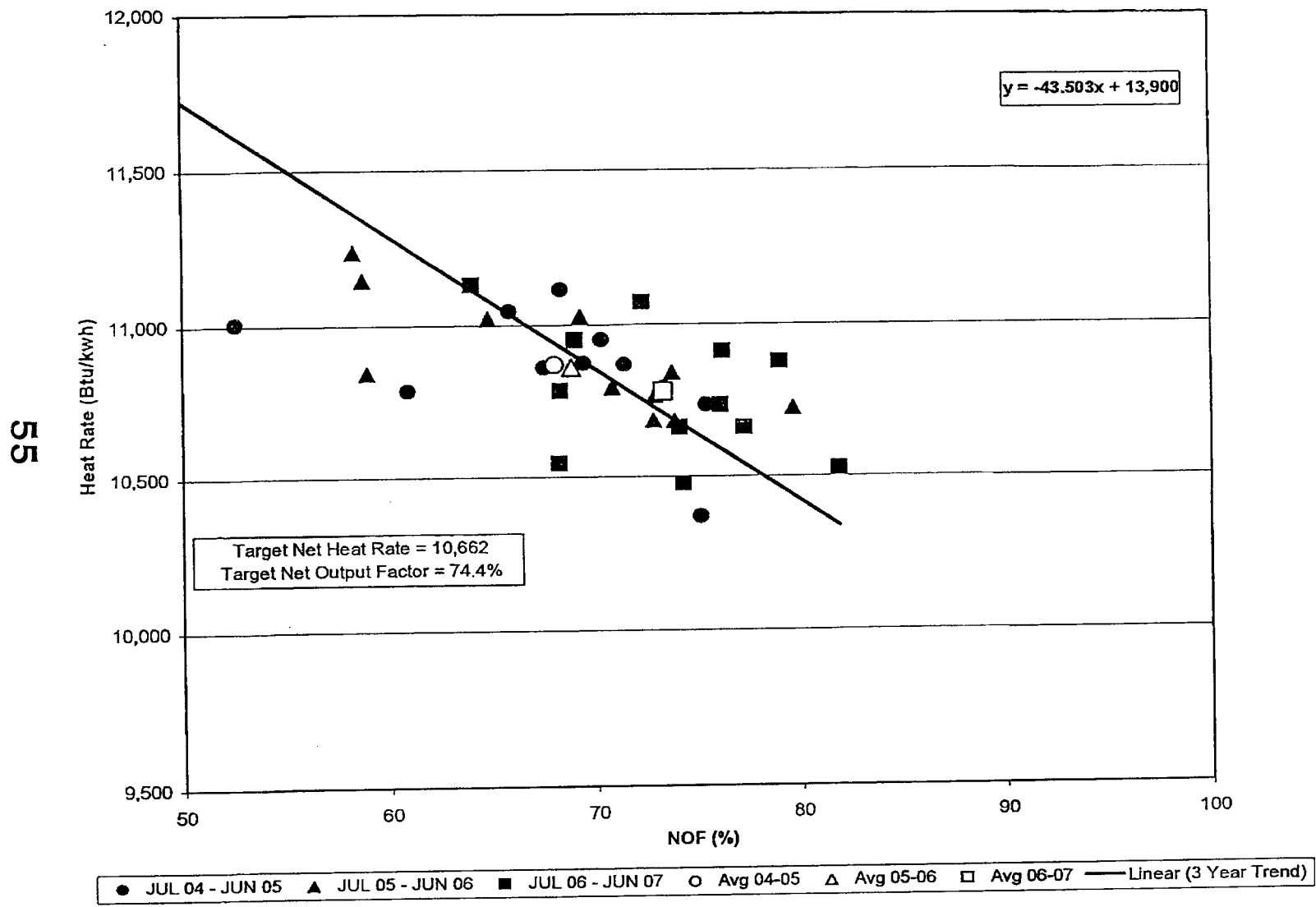
**Tampa Electric Company  
Heat Rate vs Net Output Factor  
Big Bend Unit 2**

54



● JUL 04 - JUN 05    ▲ JUL 05 - JUN 06    ■ JUL 06 - JUN 07    ○ Avg 04-05    △ Avg 05-06    □ Avg 06-07    — Linear (3 Year Trend)

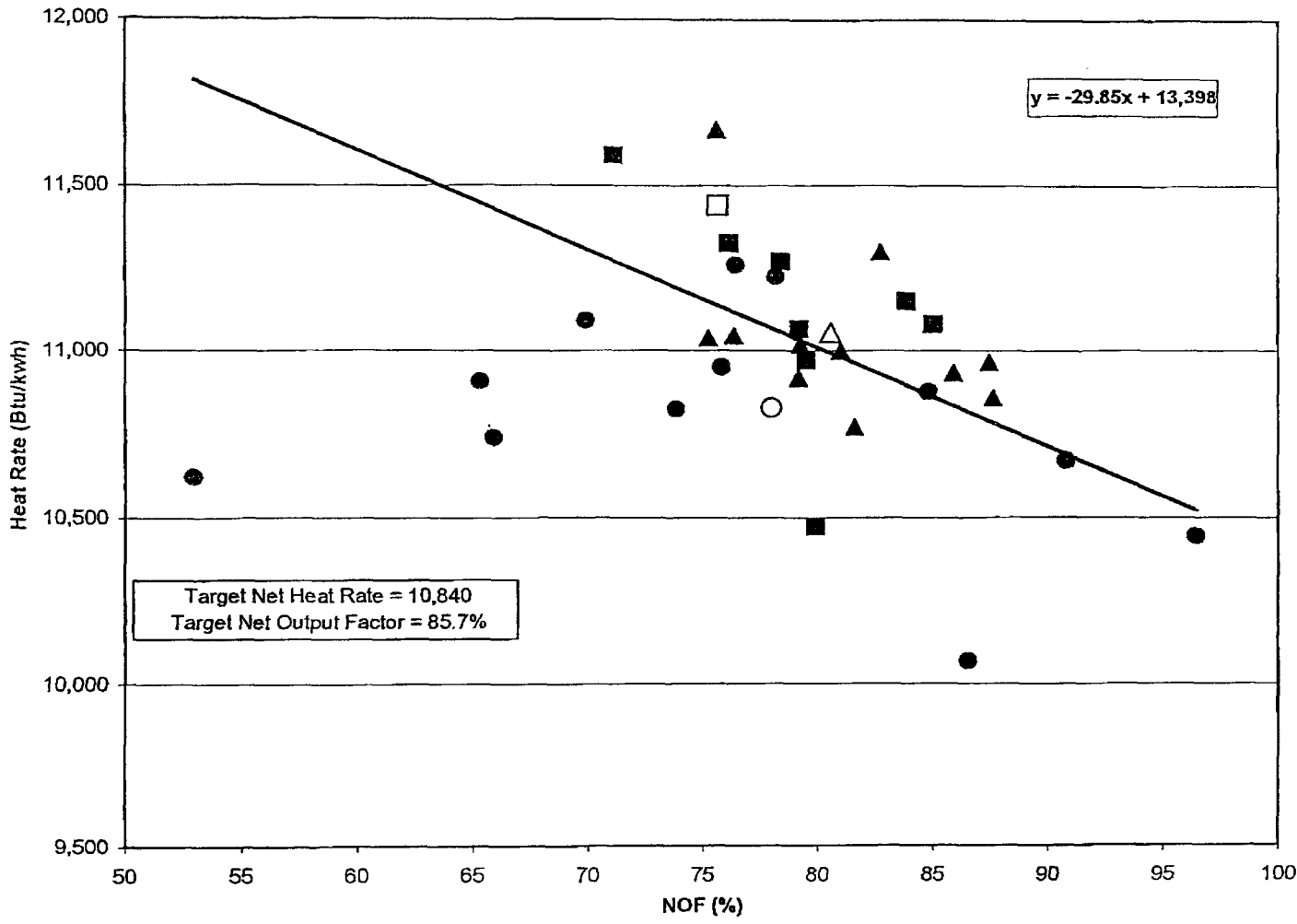
### Tampa Electric Company Heat Rate vs Net Output Factor Big Bend Unit 3





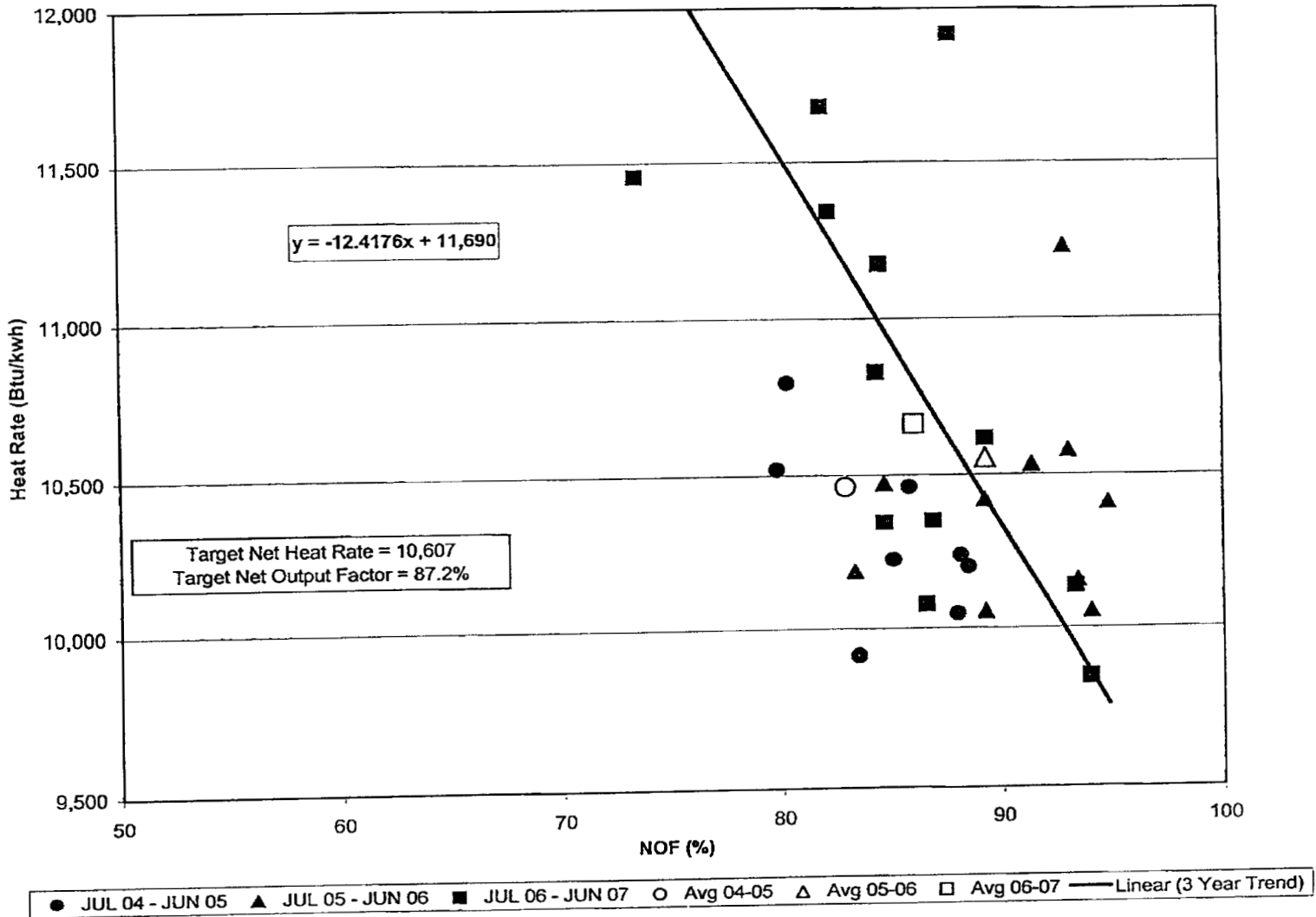
**Tampa Electric Company  
Heat Rate vs Net Output Factor  
Big Bend Unit 4**

95



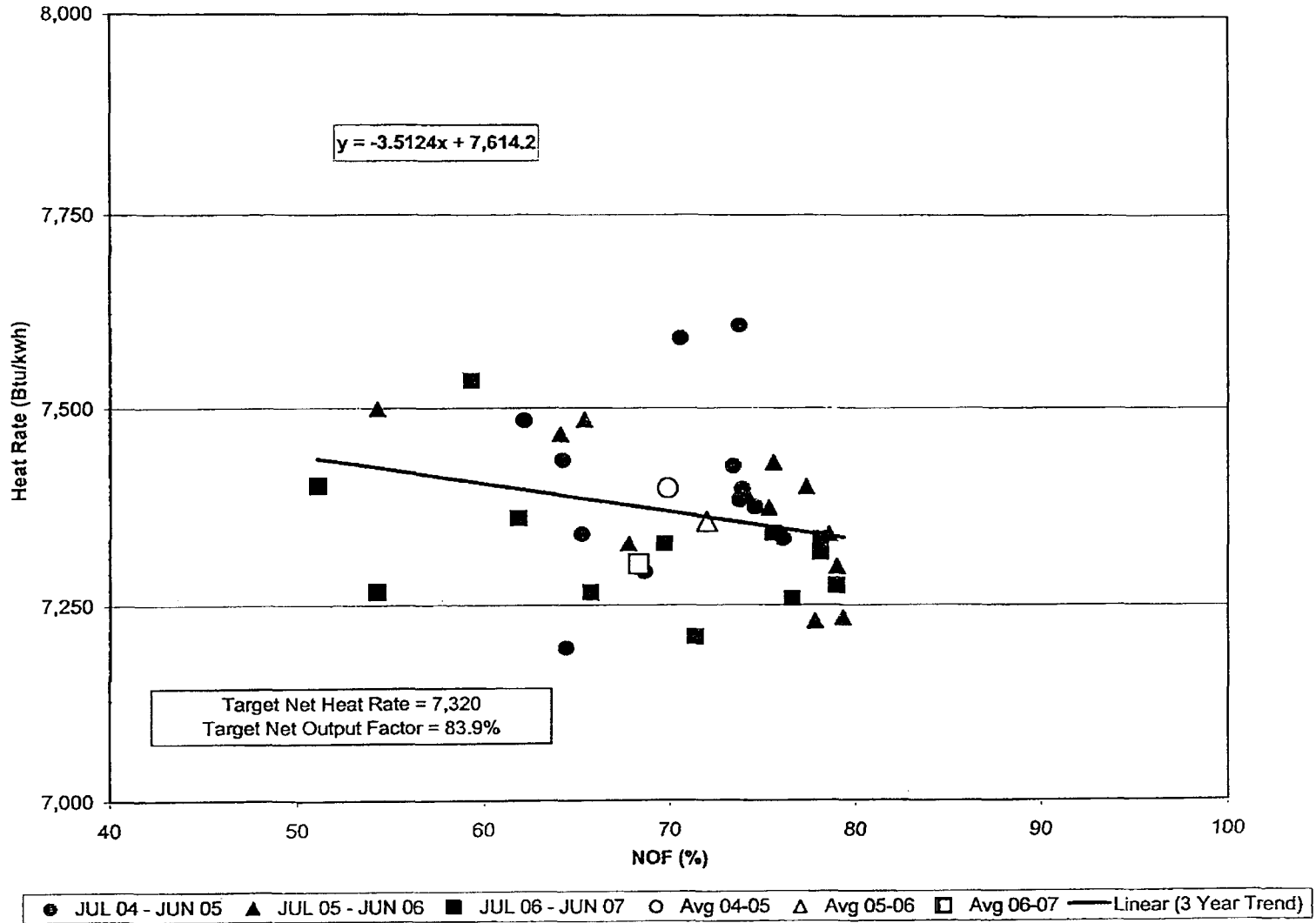
### Tampa Electric Company Heat Rate vs Net Output Factor Polk Unit 1

57



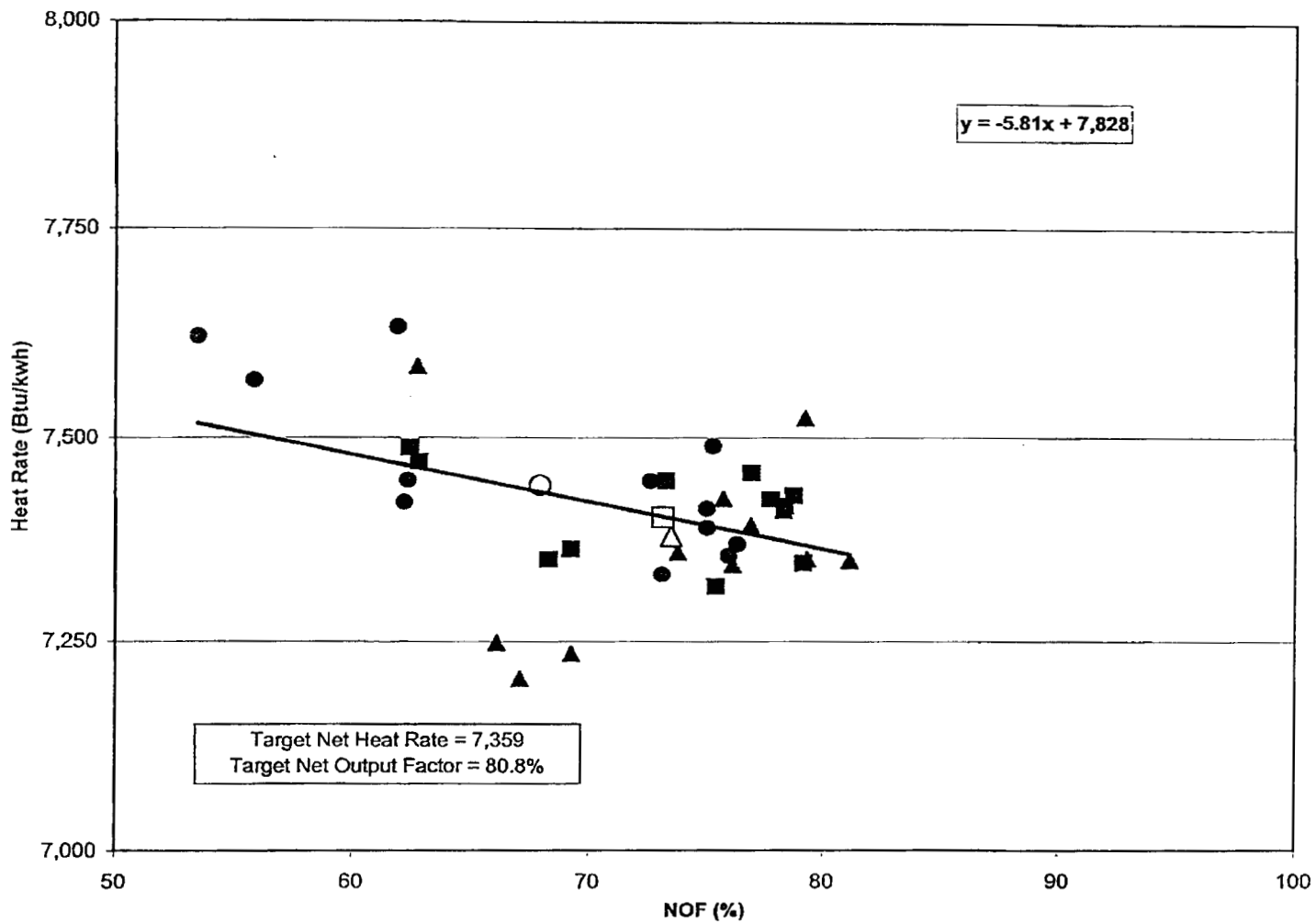
### Tampa Electric Company Heat Rate vs Net Output Factor Bayside Unit 1

58



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

69



JUL 04 - JUN 05  
  JUL 05 - JUN 06  
  JUL 06 - JUN 07  
  Avg 04-05  
  Avg 05-06  
  Avg 06-07  
  Linear (3 Year Trend)

**TAMPA ELECTRIC COMPANY  
 GENERATING UNITS IN GPIF  
 TABLE 4.2  
 JANUARY 2008 - DECEMBER 2008**

<u>PLANT / UNIT</u>	<u>ANNUAL GROSS MDC (MW)</u>	<u>ANNUAL NET NDC (MW)</u>
BIG BEND 1	400.0	380.0
BIG BEND 2	410.0	390.0
BIG BEND 3	420.0	395.0
BIG BEND 4	470.0	437.0
POLK 1	325.0	257.5
BAYSIDE 1	801.0	747.5
BAYSIDE 2	1,058.0	989.0
GPIF TOTAL	<u>3,884.0</u>	<u>3,596.0</u>
<b>SYSTEM TOTAL</b>	<b>4,787.0</b>	<b>4,437.5</b>
<b>% OF SYSTEM TOTAL</b>	<b>81.14%</b>	<b>81.04%</b>

**TAMPA ELECTRIC COMPANY  
UNIT RATINGS  
JANUARY 2008 - DECEMBER 2008**

<u>PLANT / UNIT</u>	<u>ANNUAL GROSS MDC (MW)</u>	<u>ANNUAL NET NDC (MW)</u>
BIG BEND 1	400.0	380.0
BIG BEND 2	410.0	390.0
BIG BEND 3	420.0	395.0
BIG BEND 4	470.0	437.0
BIG BEND TOTAL	<u>1,700.0</u>	<u>1,602.0</u>
BIG BEND CT1	13.0	12.5
BIG BEND CT2	80.0	70.0
BIG BEND CT3	45.0	45.0
CT TOTAL	<u>138.0</u>	<u>127.5</u>
PHILLIPS 1	18.5	17.5
PHILLIPS 2	18.5	17.5
PHILLIPS TOTAL	<u>37.0</u>	<u>35.0</u>
POLK 1	325.0	257.5
POLK 2	184.0	172.0
POLK 3	184.0	172.0
POLK 4	180.0	167.5
POLK 5	180.0	167.5
POLK TOTAL	<u>1,053.0</u>	<u>936.5</u>
BAYSIDE 1	801.0	747.5
BAYSIDE 2	1,058.0	989.0
BAYSIDE TOTAL	<u>1,859.0</u>	<u>1,736.5</u>
SYSTEM TOTAL	<u>4,787.0</u>	<u>4,437.5</u>

TAMPA ELECTRIC COMPANY  
PERCENT GENERATION BY UNIT  
JANUARY 2008 - DECEMBER 2008

PLANT	UNIT	NET OUTPUT MWH	PERCENT OF PROJECTED OUTPUT	PERCENT CUMULATIVE PROJECTED OUTPUT
BAYSIDE	2	4,724,092	24.39%	24.39%
BAYSIDE	1	3,900,966	20.14%	44.53%
BIG BEND	4	2,640,478	13.63%	58.16%
BIG BEND	2	2,461,709	12.71%	70.87%
BIG BEND	1	2,131,133	11.00%	81.87%
POLK	1	1,599,260	8.26%	90.13%
BIG BEND	3	1,520,192	7.85%	97.98%
POLK	4	124,941	0.65%	98.62%
POLK	5	95,950	0.50%	99.12%
POLK	2	64,266	0.33%	99.45%
POLK	3	44,625	0.23%	99.68%
PHILLIPS	2	31,711	0.16%	99.84%
PHILLIPS	1	30,373	0.16%	100.00%
BIG BEND CT	2	169	0.00%	100.00%
BIG BEND CT	3	100	0.00%	100.00%
BIG BEND CT	1	14	0.00%	100.00%
TOTAL GENERATION		19,369,979	100.00%	

GENERATION BY COAL UNITS: 10,352,772 MWH

% GENERATION BY COAL UNITS: 53.45%

GENERATION BY NATURAL GAS UNITS: 8,954,840 MWH

% GENERATION BY NATURAL GAS UNITS: 46.23%

GENERATION BY OIL UNITS: 62,367 MWH

% GENERATION BY OIL UNITS: 0.32%

GENERATION BY GPIF UNITS: 18,977,830 MWH

% GENERATION BY GPIF UNITS: 97.98%

DOCKET NO. 070001-EI  
GPIF 2008 PROJECTION FILING  
EXHIBIT NO. DRK-2  
DOCUMENT 2

EXHIBIT TO THE TESTIMONY OF  
DAVID R. KNAPP

DOCUMENT NO. 2

SUMMARY OF GPIF TARGETS  
JANUARY 2008 - DECEMBER 2008



TAMPA ELECTRIC COMPANY  
 SUMMARY OF GPIF TARGETS  
 JANUARY 2008 - DECEMBER 2008

Unit	Availability			Net
	EAF	POF	EUOF	Heat Rate
Big Bend 1 <sup>1</sup>	72.1	3.8	24.0	10,910
Big Bend 2 <sup>2</sup>	76.9	8.7	14.3	10,695
Big Bend 3 <sup>3</sup>	47.0	26.5	26.5	10,662
Big Bend 4 <sup>4</sup>	73.1	3.8	23.1	10,840
Polk 1 <sup>5</sup>	77.2	7.9	14.9	10,607
Bayside 1 <sup>6</sup>	84.5	3.8	11.7	7,320
Bayside 2 <sup>7</sup>	83.6	15.3	1.1	7,359

<sup>1/</sup> Original Sheet 8.401.07E, Page 14

<sup>2/</sup> Original Sheet 8.401.07E, Page 15

<sup>3/</sup> Original Sheet 8.401.07E, Page 16

<sup>4/</sup> Original Sheet 8.401.07E, Page 17

<sup>5/</sup> Original Sheet 8.401.07E, Page 18

<sup>6/</sup> Original Sheet 8.401.07E, Page 19

<sup>7/</sup> Original Sheet 8.401.07E, Page 20