AUSLEY & MCMULLEN

ATTORNEYS AND COUNSELORS AT LAW

227 SOUTH CALHOUN STREET
P.O. BOX 391 (ZIP 32302)
TALLAHASSEE, FLORIDA 32301
(904) 224-9115 FAX (904) 222-7560

June 24, 1996

HAND DELIVERED

Ms. Blanca S. Bayo, Director
Division of Records and Reporting
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

Re: Fuel and Purchased Power Cost Recovery Clause with Generating Performance Incentive Factor; FPSC Docket No. 960001-EI

Dear Ms. Bayo:

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

1. Petition of Tampa Electric Company.

ACK
AFA
APP
CAF
CMU
CTR
EAG 5-Bars
LEG
LIT
OPC
RCH
SEC
WAS
OTH

2. Prepared Direct Testimony of Mary Jo Pennino and Exhibit (MJP-2) regarding Tampa Electric's projected Total Fuel and Purchased Power Cost Recovery Factors and Exhibit (MJP-3) regarding projected Capacity Cost Recovery Factors for the period October 1996 through March 1997.

3. Prepared Direct Testimony of William N. Cantrell with Exhibit (WNC-1) regarding 1995 Transportation and Coal Benchmark calculations.

4. Prepared Direct Testimony of George A. Keselowsky with Exhibits (GAK-2) and (GAK-3) regarding Tampa Electric Company's projected performance under the Generating Performance Incentive Factor for the period October 1996 through March 1997.

5. Prepared Direct Testimony of John B. Ramil relative to Public Counsel's Generic Issue regarding Off-System Sales.

1 Rebuttal Testimony
1 Pennino
1 Ramil
1 Keselowsky

DOCUMENT NUMBER-DATE
06752 JUN 24 96
FPSC-RECORDS/REPORTING

DOCUMENT NUMBER-DATE
06753 JUN 24 96
FPSC-RECORDS/REPORTING

DOCUMENT NUMBER-DATE
06754 JUN 24 96
FPSC-RECORDS/REPORTING

DOCUMENT NUMBER-DATE
06755 JUN 24 96
FPSC-RECORDS/REPORTING

DOCUMENT NUMBER-DATE
06756 JUN 24 96
FPSC-RECORDS/REPORTING

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.)

ORIGINAL
FILE COPY

TAMPA ELECTRIC COMPANY
DOCKET NO. 960001-EI
SUBMITTED FOR FILING 6/24/96
(PROJECTION)

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

PREPARED DIRECT TESTIMONY

OF

GEORGE A. KESELOWSKY

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

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

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

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

Q. What are your current responsibilities?

A. I am responsible for testing and reporting unit

performance, and the compilation and reporting of generation statistics.

Q. What is the purpose of your testimony?

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

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

A. Yes, I have prepared, under my direction and supervision, an exhibit entitled "Tampa Electric Company, Generating Performance Incentive Factor" October 1996 - March 1997, consisting of 35 pages filed with the Commission on June 24, 1996. (Have identified as Exhibit GAK-2). The data prepared within this exhibit is consistent with the GPIF Implementation Manual previously approved by this Commission.

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

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

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

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

Q. Please continue.

A. A target was established for equivalent availability for each unit considered for this period. Heat rate targets were also established for each unit. A range of potential improvement and degradation was determined for each of these parameters.

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

A. Yes I will. The Planned Outage Factor (POF) and the Equivalent Unplanned Outage Factor (EUOF) were subtracted from 100% to determine the target equivalent availability. The factors for each of the 6 units included within the GPIF are shown on page 5 of my exhibit. For example, the projected EUOF for Big Bend Unit Four is 8.7%. The Planned Outage Factor for this same unit during this period is 0%. Therefore, the target equivalent availability for this unit equals:

$$100\% - [(8.7\% + 0\%)] = 91.3\%$$

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

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

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

Equivalent Availability Maximum

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

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

$EAF_{MAX} = 100\% - [0.8\ (8.7\%) + 0.95\ (0\%)] = 93.0\%$

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

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

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

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

Equivalent Availability Minimum

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

Again, continuing with our example of Big Bend Unit Four,

$EAF_{MIN} = 100\% - [1.4\ (8.7\%) + 1.1\ (0\%)] = 87.8\%$

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

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

A. Our planned outages for this period are shown on page 19 of my exhibit. A Critical Path Method (C.P.M.) for each major planned outage which affects GPIF is included in my exhibit. For example, Big Bend Unit 2 is scheduled for an annual maintenance outage November 4 to November 19, 1996. There are 384 planned outage hours scheduled for the winter 1996 period, and a total of 4369 hours during this 6 month period. Consequently, the Planned Outage Factor for Unit 2

at Big Bend is 384/4369 x 100% or 8.8%. This factor is shown on pages 5 and 16 of my exhibit. Big Bend Unit 1 has a planned outage factor of 13.7%, Big Bend Unit 3 has a planned outage factor of 17.0% and Big Bend Unit 4 has a planned outage factor of zero. Gannon Units 5 and 6 each have planned outage factors of 7.7%.

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

A. Graphs of both of these factors (adjusted for planned outages) vs. time are prepared. Both monthly data and 12 month moving average data are recorded. For each unit the most current, March 1996, 12 month ending value was used as a basis for the projection. This value was adjusted up or down by analyzing trends and causes for recent forced and maintenance outages. All projected factors are based upon historical unit performance, engineering judgment, time since last planned outage, and equipment performance resulting in a forced or maintenance outage. These target factors are additive and result in a EUOF of 8.9% for Gannon Unit Five. The Equivalent Unplanned Outage Factor (EUOF) for Gannon Unit Five is verified by the data shown on page 13, lines 3, 5, 10 and 11 of my exhibit and calculated using the formula:

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

or

$$EUOF = \frac{(342 + 49)}{4391} \times 100 = 8.9\%$$

Relative to Gannon Unit Five, the EUOF of 8.9% forms the basis of our Equivalent Availability target development as shown on sheets 4 and 5 of my exhibit.

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

Big Bend Unit One

A. The projected EUOF for this unit is 11.1% during this period. This unit will have a planned outage this period and the Planned Outage Factor is 13.7%. This results in a target equivalent availability of 75.2% for the period.

Big Bend Unit Two

The projected EUOF for this unit is 14.2%. This unit will have a planned outage during this period and the Planned Outage Factor is 8.8%. Therefore, the target equivalent availability for this unit is 77.0%.

Big Bend Unit Three

The projected EUOF for this unit is 12.3% during this period. This unit will have a planned outage this period and the Planned Outage Factor is 17.0%. Therefore, the target equivalent availability for this unit is 70.7%.

Big Bend Unit Four

The projected EUOF for this unit is 8.7%. This unit will not have a planned outage during this period and the Planned Outage Factor is 0%. This results in a target equivalent availability of 91.3% for the period.

Gannon Unit Five

The projected EUOF for this unit is 8.9%. This unit will have a planned outage during this period and the Planned Outage Factor is 7.7%. Therefore, the target equivalent availability for this unit is 83.4%.

Gannon Unit Six

The projected EUOF for this unit is 9.7%. This unit will have a planned outage during this period and the Planned Outage Factor is 7.7%. Therefore, the target equivalent availability for this unit is 82.6%.

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 79.2%. This target compares very favorably to previous GPIF periods when compared on a common planned outage factor basis. These targets represent an outstanding level of performance for our system.

Q. As you graph and monitor Forced and Maintenance Outage Factors, why are they adjusted for planned outage hours?

A. This adjustment makes these factors more accurate and comparable. Obviously, a unit in a planned outage stage or reserve shutdown stage will not incur a forced or maintenance outage. Since our units are usually base loaded, reserve shutdown is generally not a factor. To demonstrate the effects of a planned outage, note the EUOR and EUOF for Big Bend Unit Three on page 17. During the months of October through January, EUOF and EUOR are equal. This is due to the fact that no planned outages are scheduled during these months. During the months of February and March, EUOR exceeds EUOF. The reason for this

difference is the scheduling of a planned outage. The adjusted factors apply to the period hours after planned outage hours have been extracted.

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

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

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

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

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

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

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

Q. On what basis were the heat rate targets determined?

A. Average net operating heat rates are determined and reported on a unit basis. Therefore, all heat rate data pertaining to the GPIF is calculated on this basis.

Q. How were these targets determined?

A. Net heat rate data for the three most recent summer periods, along with the PROMOD III program, formed the basis of our target development. Projections of unit performance were made with the aid of PROMOD III. 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. The accomplishment of scrubbing the flue gas from Big Bend Unit 3 requires an additional amount of station service power. How do you plan to address the associated effect to net heat rate for GPIF purposes?

A. The change in heat rate for this unit resulting from increased utilization of the Unit 4 scrubber can be quantified, but the operational history is short of GPIF guidelines. The target for Big Bend 3 has, therefore, been developed in the standard fashion using data without scrubber power. In order to assure compatability with this target, scrubber power will be removed prior to calculating Unit 3 heat rate for the subsequent True-Up process. This method has been reviewed and approved by the PSC

Staff to be employed until there is sufficient history to meet target preparation guidelines. Successful implementation of this innovation to maximize the potential of existing plant equipment, represents a major cost savings and a significant benefit for our customers.

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

A. Yes.

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

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

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

A. The net heat rate vs. net output factor curves are the results of a first order curve fit to historical data. The standard

error of the estimate of this data was determined, and a factor was applied to produce a band of potential improvement and degradation. Both the curve fit and the standard error of the estimate were performed by computer program for each unit. These curves are also used in post period adjustments to actual heat rates to account for unanticipated changes in unit dispatch.

Q. Can you summarize your heat rate projection for the winter 1996 period?

A. Yes. The heat rate target for Big Bend Unit 1 is 10,004 Btu/Net kwh. The range about this value, to allow for potential improvement or degradation, is ±210 Btu/Net kwh. The heat rate target for Big Bend Unit 2 is 9,979 Btu/Net kwh with a range of ±273 Btu/Net kwh. The heat rate target for Big Bend Unit 3 is 9,600 Btu/Net kwh, with a range of ±332 Btu/Net kwh. The heat rate target for Big Bend Unit 4 is 10,047 Btu/Net kwh with a range of ±245 Btu/Net kwh. The heat rate target for Gannon Unit 5 is 10,258 Btu/Net kwh with a range of ±271 Btu/Net kwh. The heat rate target for Gannon Unit 6 is 10,443 Btu/Net kwh with a range of ±304 Btu/Net kwh. A zone of tolerance of ± 75 Btu/Net kwh is included within the range for each target. This is shown on page 4, and pages 7 through 12 of my exhibit.

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

A. Yes I do.

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

A. The next step is to calculate the savings and weighting factor to be used for both average net operating heat rate and equivalent availability. This is shown on pages 7 through 12. Our PROMOD III cost simulation model was used to calculate the total system fuel cost if all units operated at target heat rate and target availability for the period. This total system fuel cost of $117,272,400 is shown on page 6 column 2.

The PROMOD III output was then used to calculate total system fuel cost with each unit individually operating at maximum improvement in equivalent availability and each station operating at maximum improvement in average net operating heat rate. The respective savings are shown on page 6 column 4. After all the individual savings are

calculated, column 4 is totaled: $3,775,800 reflects the savings if all units operated at maximum improvement. A weighting factor for each parameter is then calculated by dividing individual savings by the total. For Big Bend Unit Two, the weighting factor for equivalent availability is 5.46% as shown in the right hand column on page 6. Pages 7 thru 12 show the point table, the Fuel Savings/(Loss), and the equivalent availability or heat rate value. The individual weighting factor is also shown. For example, on Big Bend Unit Two, page 10, if the unit operates at 80.3% equivalent availability, fuel savings would equal $206,200 and 10 equivalent availability points would be awarded.

The Generating Performance Incentive Factor Reward/Penalty Table on page 2 is a summary of the tables on pages 7 through 12. The left hand column of this document shows the Tampa Electric Company's incentive points. The center column shows the total fuel savings and is the same amount as shown on page 6, column 4, $3,775,800. The right hand column of page 2 is the estimated reward or penalty based upon performance.

Q. How were the maximum allowed incentive dollars determined?

A. Referring to my exhibit on page 3, line 8, the estimated average common equity for the period October 1996 - March 1997 is shown to be $1,102,485,857. This produces the maximum allowed jurisdictional incentive dollars of $2,241,397 shown on line 15.

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

A. Yes. Incentive dollars are not to exceed fifty percent of fuel savings. Page 2 of my exhibit demonstrates that the incentive amount calculated on page 3 has been reduced in order to meet this constraint.

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

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

$$GPIP = (0.0310\ EAP_{GN5} + 0.0775\ EAP_{GN6} + 0.0198\ EAP_{BB1} + 0.0546\ EAP_{BB2} + 0.0745\ EAP_{BB3} + 0.0606\ EAP_{BB4} + 0.067\ HRP_{GN5} + 0.1144\ HRP_{GN6} + 0.0985\ HRP_{BB1} + 0.1292\ HRP_{BB2} + 0.1351\ HRP_{BB3} + 0.1378\ HRP_{BB4})$$

Where:

GPIP = Generating performance incentive points.

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

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

Q. Have you prepared a document summarizing the GPIF targets for the October 1996 - March 1997 period?

A. Yes. The availability and heat rate targets for each unit are listed on attachment "A" to this testimony entitled "Tampa Electric Company GPIF Targets, October 1, 1996 - March 31, 1997".

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

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

Q. Briefly describe this exhibit.

A. This exhibit consists of 23 pages. This data is Tampa Electric Company's estimate of the Unit Performance Data and Unit Outage Data for the October 1996 - March 1997 period.

Q. Does this conclude your testimony?

A. Yes.

ATTACHMENT "A"
June 24, 1996

TAMPA ELECTRIC COMPANY
GPIF TARGETS
October 1, 1996 - March 31, 1997

	Availability			Heat Rate
Unit	EAF	POF	EUOF	
Gannon 5	83.4	7.7	8.9[1]	10,258[1]
Gannon 6	82.6	7.7	9.7[2]	10,443[2]
Big Bend 1	75.2	13.7	11.1[3]	10,004[3]
Big Bend 2	77.0	8.8	14.2[4]	9,979[4]
Big Bend 3	70.7	17.0	12.3[5]	9,600[5]
Big Bend 4	91.3	0	8.7[6]	10,047[6]

[1] Original Sheet 7.401.96E, Pg. 13

[2] Original Sheet 7.401.96E, Pg. 14

[3] Original Sheet 7.401.96E, Pg. 15

[4] Original Sheet 7.401.96E, Pg. 16

[5] Original Sheet 7.401.96E, Pg. 17

[6] Original Sheet 7.401.96E, Pg. 18

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE FACTOR
OCTOBER 1996 - MARCH 1997
TABLE OF CONTENTS

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE POINTS TABLE
REWARD / PENALTY TABLE - ESTIMATED

GENERATING PERFORMANCE INCENTIVE POINTS (GPIP)	FUEL SAVINGS / (LOSS) ($000)	GENERATING PERFORMANCE INCENTIVE FACTOR ($000)
+10	3,775.8	1,887.9
+9	3,398.2	1,699.1
+8	3,020.6	1,510.3
+7	2,643.1	1,321.5
+6	2,265.5	1,132.7
+5	1,887.9	944.0
+4	1,510.3	755.2
+3	1,132.7	566.4
+2	755.2	377.6
+1	377.6	188.8
0	0	0.0
-1	(461.7)	(188.8)
-2	(923.3)	(377.6)
-3	(1,385.0)	(566.4)
-4	(1,846.6)	(755.2)
-5	(2,308.3)	(944.0)
-6	(2,770.0)	(1,132.7)
-7	(3,231.6)	(1,321.5)
-8	(3,693.3)	(1,510.3)
-9	(4,154.9)	(1,699.1)
-10	(4,616.6)	(1,887.9)

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE FACTOR
CALCULATION OF MAXIMUM ALLOWED INCENTIVE DOLLARS
ESTIMATED
OCTOBER 1996 - MARCH 1997

Line 1	Beginning of period balance of common equity				$1,097,779,000
	End of month common equity:				
Line 2	Month of	October	1996		$1,076,547,000
Line 3	Month of	November	1996		$1,087,089,000
Line 4	Month of	December	1996		$1,097,733,000
Line 5	Month of	January	1996		$1,108,528,000
Line 6	Month of	February	1996		$1,119,382,000
Line 7	Month of	March	1996		$1,130,343,000
Line 8	(summation of line 1 through line 7 divided by 7)				$1,102,485,857
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)				$2,245,433
Line 12	Jurisdictional Sales				6851732 MWH
Line 13	Total Sales				6864067 MWH
Line 14	Jurisdictional Seperation Factor (Line 12 divided by line 13)				99.82%
Line 15	Maximum Allowed Jurisdictional Incentive Dollars (Line 11 times line 14)				$2,241,397

TAMPA ELECTRIC COMPANY

GPIF TARGET AND RANGE SUMMARY

OCTOBER 1996 - MARCH 1997

EQUIVALENT AVAILABILITY

PLANT/UNIT	WEIGHTING FACTOR (%)	EAF TARGET (%)	EAF RANGE MAX. (%)	EAF RANGE MIN. (%)	MAX. FUEL SAVINGS ($000)	MAX. FUEL LOSS ($000)
GANNON 5	3.10%	83.4	85.6	79.1	117.0	(217.4)
GANNON 6	7.75%	82.6	84.9	78.0	292.6	(502.8)
BIG BEND 1	1.98%	75.2	78.1	69.4	74.6	(241.0)
BIG BEND 2	5.46%	77.0	80.3	70.4	206.2	(330.0)
BIG BEND 3	7.45%	70.7	74.0	64.1	281.1	(534.5)
BIG BEND 4	6.06%	91.3	93.0	87.8	228.8	(215.9)
GPIF SYSTEM	31.80%				1,200.8	(2,041.6)

AVERAGE NET OPERATING HEAT RATE FOR GPIF COAL GENERATING UNITS

PLANT/UNIT	WEIGHTING FACTOR (%)	ANOHR Btu/kwh	TARGET NOF	ANOHR TARGET RANGE MIN.	ANOHR TARGET RANGE MAX.	MAX. FUEL SAVINGS ($000)	MAX. FUEL LOSS ($000)
GANNON 5	6.70%	10258	87.5	9987	10529	253.0	(253.0)
GANNON 6	11.44%	10443	78.7	10139	10747	432.0	(432.0)
BIG BEND 1	9.85%	10084	91.9	9794	10214	372.0	(372.0)
BIG BEND 2	12.92%	9979	92.5	9706	10252	488.0	(488.0)
BIG BEND 3	13.51%	9600	84.1	9268	9932	510.0	(510.0)
BIG BEND 4	13.78%	10047	92.8	9802	10292	520.0	(520.0)
GPIF SYSTEM	68.20%					2,575.0	(2,575.0)

TAMPA ELECTRIC COMPANY

COMPARISON OF GPIF TARGETS VS. PRIOR PERIOD ACTUAL PERFORMANCE

AVAILABILITY

PLANT/UNIT	TARGET WEIGHTING FACTOR	NORMALIZED WEIGHTING FACTOR	TARGET PERIOD OCT 94 - MAR 95 POF	EUOF	EUOR	ACTUAL PERFORMANCE OCT 93 - MAR 94 POF	EUOF	EUOR	ACTUAL PERFORMANCE APR 93 -SEP 93 POF	EUOF	EUOR	ACTUAL PERFORMANCE OCT 94 - MAR 95 POF	EUOF	EUOR	ACTUAL PERFORMANCE APR 94 -SEP 94 POF	EUOF	EUOR	ACTUAL PERFORMANCE OCT 93 - MAR 94 POF	EUOF	EUOR
BIG BEND 1	1.98%	20.0	13.7	11.1	12.9	0.0	12.6	12.6	0.2	11.1	11.1	7.7	7.4	8.2	30.6	10.3	14.8	0.0	14.5	14.5
BIG BEND 2	1.40%	13.4	8.8	14.2	15.6	0.0	14.5	14.5	0.0	11.4	11.4	20.7	11.0	13.6	0.0	30.8	30.8	0.0	7.3	7.3
BIG BEND 3	7.45%	19.8	17.0	12.3	14.9	10.4	13.9	15.5	21.3	13.7	19.9	0.0	12.6	12.6	0.0	9.1	9.1	6.3	6.3	6.6
BIG BEND 4	6.06%	17.4	0.0	8.7	8.7	11.0	4.6	5.2	0.0	7.6	7.6	10.8	10.0	12.3	0.0	7.4	7.4	5.1	5.9	6.3
GANNON 5	3.10%	7.2	7.7	8.9	9.7	31.0	8.6	12.5	0.0	8.5	8.5	4.0	5.6	5.9	2.7	11.9	13.2	4.1	5.7	5.9
GANNON 6	7.75%	17.4	7.7	9.7	10.5	3.9	11.2	11.7	5.0	7.2	7.6	5.6	9.0	10.4	0.0	9.3	9.3	20.3	7.9	11.3
	31.80%	100.0																		
GPIF SYSTEM WGT'D AVG.			9.7	11.3	12.5	6.8	11.3	12.1	3.8	10.7	11.6	11.8	9.9	11.4	6.5	11.6 -	12.3	7.0	8.3	9.0
GPIF SYSTEM WEIGHTED EQUIVALENT AVAILABILITY				79.2			91.9			84.3			78.4			91.9			84.7	

3 PERIOD AVERAGE POF	EUOF	EUOR
7.4	10.3	11.3

3 PERIOD AVERAGE EAF
82.3

AVERAGE NET OPERATING HEAT RATE (Btu/kwh)

PLANT/UNIT	TARGET WEIGHTING FACTOR	NORMALIZED WEIGHTING FACTOR	HEAT RATE TARGET	ADJUSTED PRIOR HEAT RATE OCT 93 - SEP 94	ADJUSTED PRIOR HEAT RATE OCT 94 - SEP 95	ADJUSTED PRIOR HEAT RATE OCT 93 - SEP 94
GANNON 5	6.70%	9.8	10238	10234	10234	10304
GANNON 6	11.44%	16.8	10443	10677	10662	10524
BIG BEND 1	9.83%	14.4	10004	9908	9933	9930
BIG BEND 2	11.92%	18.9	9979	9854	9932	9966
BIG BEND 3	13.31%	19.8	9600	9632	9936	9989
BIG BEND 4	13.79%	20.2	10047	9936	10092	9974
	68.20%	100.0				
GPIF SYSTEM WEIGHTED AVERAGE HEAT RATE (Btu/kwh)			10027	9999	10044	9996

ORGINAL SHEET NO. 7.401.96E
PAGE 5 OF 35

TAMPA ELECTRIC COMPANY
DERIVATION OF WEIGHTING FACTORS
OCTOBER 1996 - MARCH 1997
PRODUCTION COSTING SIMULATION
FUEL COST ($000)

UNIT PERFORMANCE INDICATOR	AT TARGET (1)	IMPROVEMENT (2)	SAVINGS (3)	WEIGHTING FACTOR (% OF SAVINGS)
EQUIVALENT AVAILABILITY				
EA1 GANNON 5	117272.4	117155.4	117.0	3.10%
EA2 GANNON 6	117272.4	116979.8	292.6	7.75%
EA3 BIG BEND 1	117272.4	117197.6	74.8	1.98%
EA4 BIG BEND 2	117272.4	117066.2	206.2	5.46%
EA5 BIG BEND 3	117272.4	116991.0	281.4	7.45%
EA6 BIG BEND 4	117272.4	117043.6	228.8	6.06%
HEAT RATE				
AHR1 GANNON 5	117272.4	117019.4	253.0	6.70%
AHR2 GANNON 6	117272.4	116840.4	432.0	11.44%
AHR3 BIG BEND 1	117272.4	116900.4	372.0	9.85%
AHR4 BIG BEND 2	117272.4	116784.4	488.0	12.92%
AHR5 BIG BEND 3	117272.4	116762.4	510.0	13.51%
AHR6 BIG BEND 4	117272.4	116752.4	520.0	13.78%
TOTAL SAVINGS			3775.8	100.00%

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

(2) All other unit performance indicators at target.

(3) Expressed in replacement energy cost.

TAMPA ELECTRIC COMPANY

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

OCTOBER 1996 - MARCH 1997

GANNON 5

EQUIVALENT AVAILABILITY POINTS	FUEL SAVINGS / (LOSS) ($ X 1000)	ADJUSTED ACTUAL EQUIVALENT AVAILABILITY	AVERAGE HEAT RATE POINTS	FUEL SAVINGS / (LOSS) ($ X 1000)	ADJUSTED ACTUAL AVERAGE HEAT RATE
+10	117.0	85.6	+10	253.0	9987
+9	105.3	85.4	+9	227.7	10007
+8	93.6	85.2	+8	202.4	10026
+7	81.9	84.9	+7	177.1	10046
+6	70.2	84.7	+6	151.8	10065
+5	58.5	84.5	+5	126.5	10085
+4	46.8	84.3	+4	101.2	10105
+3	35.1	84.1	+3	75.9	10124
+2	23.4	83.8	+2	50.6	10144
+1	11.7	83.6	+1	25.3	10163
				0.0	10183
0	0.0	83.4	0	0.0	10258
				0.0	10333
-1	21.7	83.0	-1	25.3	10353
-2	43.5	82.5	-2	50.6	10372
-3	65.2	82.1	-3	75.9	10392
-4	87.0	81.7	-4	101.2	10411
-5	108.7	81.3	-5	126.5	10431
-6	130.4	80.8	-6	151.8	10451
-7	152.2	80.4	-7	177.1	10470
-8	173.9	80.0	-8	202.4	10490
-9	195.7	79.5	-9	227.7	10509
-10	217.4	79.1	-10	253.0	10529
	Weighting Factor =	3.10%		Weighting Factor =	6.70%

TAMPA ELECTRIC COMPANY

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

OCTOBER 1996 - MARCH 1997

GANNON 6

EQUIVALENT AVAILABILITY POINTS	FUEL SAVINGS / (LOSS) ($ X 1000)	ADJUSTED ACTUAL EQUIVALENT AVAILABILITY	AVERAGE HEAT RATE POINTS	FUEL SAVINGS / (LOSS) ($ X 1000)	ADJUSTED ACTUAL AVERAGE HEAT RATE
+10	292.6	84.9	+10	432.0	10139
+9	263.3	84.7	+9	388.8	10162
+8	234.1	84.4	+8	345.6	10185
+7	204.8	84.2	+7	302.4	10208
+6	175.6	84.0	+6	259.2	10231
+5	146.3	83.8	+5	216.0	10254
+4	117.0	83.5	+4	172.8	10276
+3	87.8	83.3	+3	129.6	10299
+2	58.5	83.1	+2	86.4	10322
+1	29.3	82.8	+1	43.2	10345
				0.0	10368
0	0.0	82.6	0	0.0	10443
				0.0	10518
-1	50.3	82.1	-1	43.2	10541
-2	100.6	81.7	-2	86.4	10564
-3	150.8	81.2	-3	129.6	10587
-4	201.1	80.8	-4	172.8	10610
-5	251.4	80.3	-5	216.0	10633
-6	301.7	79.8	-6	259.2	10655
-7	352.0	79.4	-7	302.4	10678
-8	402.2	78.9	-8	345.6	10701
-9	452.5	78.5	-9	388.8	10724
-10	502.8	78.0	-10	432.0	10747
	Weighting Factor =	7.75%		Weighting Factor =	11.44%

TAMPA ELECTRIC COMPANY

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

OCTOBER 1996 - MARCH 1997

BIG BEND 1

EQUIVALENT AVAILABILITY POINTS	FUEL SAVINGS / (LOSS) ($ X 1000)	ADJUSTED ACTUAL EQUIVALENT AVAILABILITY	AVERAGE HEAT RATE POINTS	FUEL SAVINGS / (LOSS) ($ X 1000)	ADJUSTED ACTUAL AVERAGE HEAT RATE
+10	74.8	78.1	+10	372.0	9794
+9	67.3	77.8	+9	334.8	9808
+8	59.8	77.5	+8	297.6	9821
+7	52.4	77.2	+7	260.4	9835
+6	44.9	76.9	+6	223.2	9848
+5	37.4	76.7	+5	186.0	9862
+4	29.9	76.4	+4	148.8	9875
+3	22.4	76.1	+3	111.6	9889
+2	15.0	75.8	+2	74.4	9902
+1	7.5	75.5	+1	37.2	9916
				0.0	9929
0	0.0	75.2	0	0.0	10004
				0.0	10079
-1	24.1	74.6	-1	37.2	10093
-2	48.2	74.0	-2	74.4	10106
-3	72.3	73.5	-3	111.6	10120
-4	96.4	72.9	-4	148.8	10133
-5	120.5	72.3	-5	186.0	10147
-6	144.6	71.7	-6	223.2	10160
-7	168.7	71.1	-7	260.4	10174
-8	192.8	70.6	-8	297.6	10187
-9	216.9	70.0	-9	334.8	10201
-10	241.0	69.4	-10	372.0	10214
	Weighting Factor =	1.98%		Weighting Factor =	9.85%

TAMPA ELECTRIC COMPANY

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

OCTOBER 1996 - MARCH 1997

BIG BEND 2

EQUIVALENT AVAILABILITY POINTS	FUEL SAVINGS / (LOSS) ($ X 1000)	ADJUSTED ACTUAL EQUIVALENT AVAILABILITY	AVERAGE HEAT RATE POINTS	FUEL SAVINGS / (LOSS) ($ X 1000)	ADJUSTED ACTUAL AVERAGE HEAT RATE
+10	206.2	80.3	+10	488.0	9979
+9	185.6	80.0	+9	439.2	9972
+8	165.0	79.6	+8	390.4	9964
+7	144.3	79.3	+7	341.6	9957
+6	123.7	79.0	+6	292.8	9949
+5	103.1	78.7	+5	244.0	9942
+4	82.5	78.3	+4	195.2	9934
+3	61.9	78.0	+3	146.4	9927
+2	41.2	77.7	+2	97.6	9919
+1	20.6	77.3	+1	48.8	9912
				0.0	9904
0	0.0	77.0	0	0.0	9979
				0.0	10054
-1	33.0	76.3	-1	48.8	10074
-2	66.0	75.7	-2	97.6	10094
-3	99.0	75.0	-3	146.4	10113
-4	132.0	74.4	-4	195.2	10133
-5	165.0	73.7	-5	244.0	10153
-6	198.0	73.0	-6	292.8	10173
-7	231.0	72.4	-7	341.6	10193
-8	264.0	71.7	-8	390.4	10212
-9	297.0	71.1	-9	439.2	10232
-10	330.0	70.4	-10	488.0	10252
	Weighting Factor =	5.46%		Weighting Factor =	12.92%

TAMPA ELECTRIC COMPANY

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

OCTOBER 1996 - MARCH 1997

BIG BEND 3

EQUIVALENT AVAILABILITY POINTS	FUEL SAVINGS / (LOSS) ($ X 1000)	ADJUSTED ACTUAL EQUIVALENT AVAILABILITY	AVERAGE HEAT RATE POINTS	FUEL SAVINGS / (LOSS) ($ X 1000)	ADJUSTED ACTUAL AVERAGE HEAT RATE
+10	281.4	73.9	+10	510.0	9268
+9	253.3	73.6	+9	459.0	9294
+8	225.1	73.2	+8	408.0	9319
+7	197.0	72.9	+7	357.0	9345
+6	168.8	72.6	+6	306.0	9371
+5	140.7	72.3	+5	255.0	9397
+4	112.6	71.9	+4	204.0	9422
+3	84.4	71.6	+3	153.0	9448
+2	56.3	71.3	+2	102.0	9474
+1	28.1	70.9	+1	51.0	9499
				0.0	9525
0	0.0	70.6	0	0.0	9600
				0.0	9675
-1	53.5	69.9	-1	51.0	9701
-2	106.9	69.3	-2	102.0	9726
-3	160.4	68.6	-3	153.0	9752
-4	213.8	67.9	-4	204.0	9778
-5	267.3	67.3	-5	255.0	9804
-6	320.7	66.6	-6	306.0	9829
-7	374.2	65.9	-7	357.0	9855
-8	427.6	65.2	-8	408.0	9881
-9	481.1	64.6	-9	459.0	9906
-10	534.5	63.9	-10	510.0	9932
	Weighting Factor =	7.45%		Weighting Factor =	13.51%

TAMPA ELECTRIC COMPANY

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

OCTOBER 1996 - MARCH 1997

BIG BEND 4

EQUIVALENT AVAILABILITY POINTS	FUEL SAVINGS / (LOSS) ($ X 1000)	ADJUSTED ACTUAL EQUIVALENT AVAILABILITY	AVERAGE HEAT RATE POINTS	FUEL SAVINGS / (LOSS) ($ X 1000)	ADJUSTED ACTUAL AVERAGE HEAT RATE
+10	215.9	93.0	+10	520.0	9743
+9	194.3	92.8	+9	468.0	9766
+8	172.7	92.7	+8	416.0	9789
+7	151.1	92.5	+7	364.0	9812
+6	129.5	92.3	+6	312.0	9835
+5	108.0	92.2	+5	260.0	9858
+4	86.4	92.0	+4	208.0	9880
+3	64.8	91.8	+3	156.0	9903
+2	43.2	91.6	+2	104.0	9926
+1	21.6	91.5	+1	52.0	9949
				0.0	9972
0	0.0	91.3	0	0.0	10047
				0.0	10122
-1	22.9	91.0	-1	52.0	10145
-2	45.8	90.6	-2	104.0	10168
-3	68.6	90.3	-3	156.0	10191
-4	91.5	89.9	-4	208.0	10214
-5	114.4	89.6	-5	260.0	10237
-6	137.3	89.2	-6	312.0	10259
-7	160.2	88.9	-7	364.0	10282
-8	183.0	88.5	-8	416.0	10305
-9	205.9	88.2	-9	468.0	10328
-10	228.8	87.8	-10	520.0	10351
	Weighting Factor =	6.06%		Weighting Factor =	13.78%

TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

OCTOBER 1996 - MARCH 1997

PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
GANNON 5	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	WINTER 1996
1. EAF (%)	78.7	81.3	90.3	90.3	67.7	90.3	83.4
2. POF	12.9	10.0	0.0	0.0	25.0	0.0	7.7
3. EUOF	8.5	8.8	9.7	9.7	7.3	9.7	8.9
4. EUOR	9.7	9.7	9.7	9.7	9.7	9.7	9.7
5. PH	745	720	744	744	672	744	4369
6. SH	615	616	707	707	479	707	3831
7. RSH	0	0	0	0	0	0	0
8. UH	130	104	37	37	193	37	538
9. POH	96	72	0	0	168	0	336
10. FOH & EFOH	55	55	63	63	43	63	342
11. MOH & EMOH	8	8	9	9	6	9	49
12. OPER BTU (GBTU)	1042.175	1079.499	1220.442	1081.863	813.270	1207.203	6444.452
13. NET GEN (MWH)	100113	105689	119721	105182	79645	117883	628233
14. ANOHR (BTU/KWH)	10410	10214	10194	10286	10211	10241	10258
15. NOF (%)	71.7	75.6	74.6	65.5	73.2	73.5	72.2
16. NSC (MW)	227	227	227	227	227	227	227
17. ANOHR EQUATION	ANOHR = NOF(-16.60720) + 11457.1						

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TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

OCTOBER 1996 - MARCH 1997

PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
GANNON 6	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	WINTER 1996
1. EAF (%)	89.5	89.5	69.3	89.5	67.1	89.5	82.6
2. POF	0.0	0.0	22.6	0.0	25.0	0.0	7.7
3. EUOF	10.5	10.5	8.1	10.5	7.9	10.5	9.7
4. EUOR	10.5	10.5	10.5	10.5	10.5	10.5	10.5
5. PH	745	720	744	744	672	744	4369
6. SH	663	642	513	663	449	663	3593
7. RSH	0	0	0	0	0	0	0
8. UH	82	78	231	81	223	81	776
9. POH	0	0	168	0	168	0	336
10. FOH & EFOH	46	45	36	46	31	46	250
11. MOH & EMOH	32	31	25	32	22	32	174
12. OPER BTU (GBTU)	1879.685	1792.465	1446.784	1600.056	1268.983	1843.327	9833.300
13. NET GEN (MWH)	178853	172005	139513	152284	122148	176789	941592
14. ANOHR (BTU/KWH)	0	10421	10385	10507	10389	10427	10443
15. NOF (%)	0.0	74.0	75.1	63.5	75.2	73.7	72.4
16. NSC (MW)	362	362	362	362	362	362	362
17. ANOHR EQUATION	ANOHR = NOF(7.90428) + 9871.0						

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ESTIMATED UNIT PERFORMANCE DATA

OCTOBER 1996 - MARCH 1997

PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
BIG BEND 1	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	WINTER 1996
1. EAF (%)	87.0	66.8	59.0	87.2	87.2	64.7	75.2
2. POF	0.0	23.3	32.3	0.0	0.0	25.8	13.7
3. EUOF	13.0	9.9	8.7	12.8	12.8	9.5	11.1
4. EUOR	13.0	12.9	12.9	12.8	12.8	12.9	12.9
5. PH	745	720	744	744	672	744	4369
6. SH	683	506	463	683	617	506	3458
7. RSH	0	0	0	0	0	0	0
8. UH	62	214	281	61	55	238	911
9. POH	0	166	240	0	0	192	600
10. FOH & EFOH	63	46	42	62	56	46	315
11. MOH & EMOH	34	25	23	33	30	25	170
12. OPER BTU (GBTU)	2464.623	1640.588	1685.571	2221.818	2174.899	1767.517	12155.016
13. NET GEN (MWH)	244437	164132	169703	222368	218013	176321	1214994
14. ANOHR (BTU/KWH)	10083	9996	9932	9991	9976	10024	10004
15. NOF (%)	85.0	86.4	87.1	77.3	83.9	82.8	83.5
16. NSC (MW)	421	421	421	421	421	421	421
17. ANOHR EQUATION	ANOHR = NOF(-14.33320) + 11201.0						

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ESTIMATED UNIT PERFORMANCE DATA

OCTOBER 1996 - MARCH 1997

PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
BIG BEND 2	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	WINTER 1996
1. EAF (%)	84.3	39.3	84.4	84.4	84.5	84.4	77.0
2. POF	0.0	53.3	0.0	0.0	0.0	0.0	8.8
3. EUOF	15.7	7.4	15.6	15.6	15.5	15.6	14.2	
4. EUOR	15.7	15.6	15.6	15.6	15.5	15.6	15.6
5. PH	745	720	744	744	672	744	[illegible]
6. SH	660	298	660	660	596	660	3534
7. RSH	0	0	0	0	0	0	0
8. UH	85	422	84	84	76	84	835
9. POH	0	384	0	0	0	0	384
10. FOH & EFOH	95	43	94	94	85	94	505
11. MOH & EMOH	22	10	22	22	19	22	117
12. OPER BTU (GBTU)	2365.439	1091.706	2398.580	2089.577	2009.480	2257.111	12191.893
13. NET GEN (MWH)	237696	110229	241732	205830	200506	225775	1221768
14. ANOHR (BTU/KWH)	9952	9904	9922	10055	10022	9997	9979
15. NOF (%)	85.5	87.9	87.0	74.1	79.9	81.3	82.1
16. NSC (MW)	421	421	421	421	421	421	421
17. ANOHR EQUATION	ANOHR = NOF(-11.30580) + 10907.1						

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ESTIMATED UNIT PERFORMANCE DATA

OCTOBER 1996 - MARCH 1997

PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
BIG BEND 3 GPIF	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	WINTER 1996
1. EAF (%)	85.0	85.1	85.2	85.2	63.8	19.2	70.7
2. POF	0.0	0.0	0.0	0.0	25.0	77.4	17.0
3. EUOF	15.0	14.9	14.8	14.8	11.2	3.4	12.3
4. EUOR	15.0	14.9	14.8	14.8	14.9	14.9	14.9
5. PH	745	720	744	744	672	744	4369
6. SH	662	641	662	662	427	150	3204
7. RSH	0	0	0	0	0	0	0
8. UH	83	79	82	82	245	594	1165
9. POH	0	0	0	0	168	576	744
10. FOH & EFOH	75	72	74	74	50	17	362
11. MOH & EMOH	37	35	36	36	25	8	177
12. OPER BTU (GBTU)	2318.878	2275.512	2330.285	2159.392	1501.373	537.249	11122.689
13. NET GEN (MWH)	234462	235073	244300	228970	159427	56349	1158581
14. ANOHR (BTU/KWH)	9890	9680	9539	9431	9417	9534	9600
15. NOF (%)	82.4	85.3	85.8	80.4	86.8	87.4	84.1
16. NSC (MW)	430	430	430	430	430	430	430
17. ANOHR EQUATION	ANOHR = NOF(-13.73530) + 10913.8						

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ESTIMATED UNIT PERFORMANCE DATA

OCTOBER 1996 - MARCH 1997

PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
BIG BEND 4	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	WINTER 1996
1. EAF (%)	91.3	91.3	91.3	91.3	91.2	91.3	91.3
2. POF	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. EUOF	8.7	8.8	8.7	8.7	8.8	8.7	8.7
4. EUOR	8.7	8.8	8.7	8.7	8.8	8.7	8.7
5. PH	745	720	744	744	672	744	4369
6. SH	708	685	708	708	639	708	4156
7. RSH	0	0	0	0	0	0	0
8. UH	37	35	36	36	33	36	213
9. POH	0	0	0	0	0	0	0
10. FOH & EFOH	30	29	30	30	27	30	176
11. MOH & EMOH	35	34	35	35	32	35	206
12. OPER BTU (GBTU)	2576.022	2629.520	2672.999	2519.294	2431.347	2694.168	15523.350
13. NET GEN (MWH)	254406	262851	266272	250316	242337	268897	1545079
14. ANOHR (BTU/KWH)	10128	10004	10039	10064	10033	10019	10047
15. NOF (%)	81.9	87.4	85.7	80.5	86.4	86.5	84.7
16. NSC (MW)	439	439	439	439	439	439	439
17. ANOHR EQUATION	ANOHR = NOF(-2.45735) + 10255.1						

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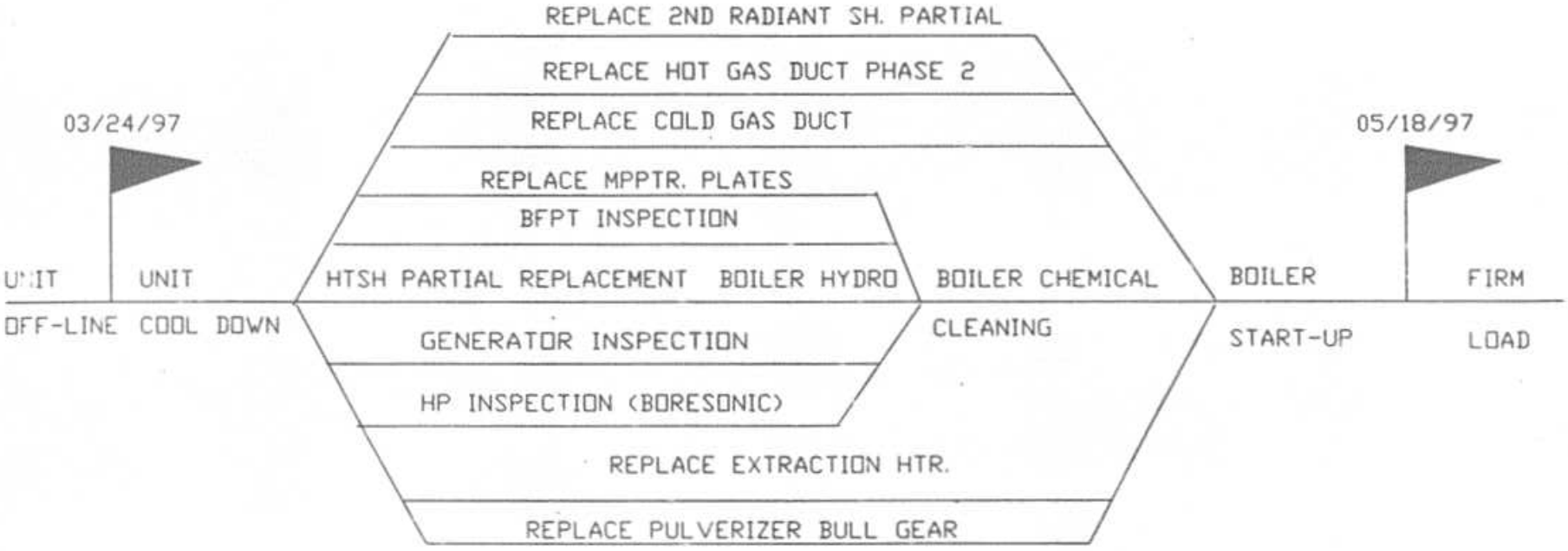
TAMPA ELECTRIC COMPANY
PLANNED OUTAGE SCHEDULE (ESTIMATED)
GPIF UNITS
OCTOBER 1996 - MARCH 1997

	PLANT / UNIT	PLANNED OUTAGE DATES	OUTAGE DISCRIPTION
+	BIG BEND 1	NOV 24 - DEC 10	ANNUAL MAINTENANCE OUTAGE
*	BIG BEND 1	MAR 24 - MAY 18	HTSH (PARTIAL REPLACEMENT) REPL. PULV. BULL GEAR REPL. 2ND RAD. SH. PART. REPL. HOT GAS DUCT PH-2 REPL. MPPTR. PLATES REPL. EXTRACTION HTR. REPL. COLD GAS DUCT HP INSPECTION (BORESONIC) GENERATOR INSP. BFPT INSPECTION
+	BIG BEND 2	NOV 04 - NOV 19	ANNUAL MAINTENANCE OUTAGE
+	BIG BEND 3	FEB 21 - MAR 24	REPLACE BURNER PANELS
+	GANNON 5	OCT 28 - NOV 03	FUEL SYSTEM CLEAN-UP
+	GANNON 5	FEB 07 - FEB 13	FUEL SYSTEM CLEAN-UP
+	GANNON 6	DEC 11 - DEC 17	FUEL SYSTEM CLEAN-UP
+	GANNON 6	FEB 14 - FEB 20	FUEL SYSTEM CLEAN-UP

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

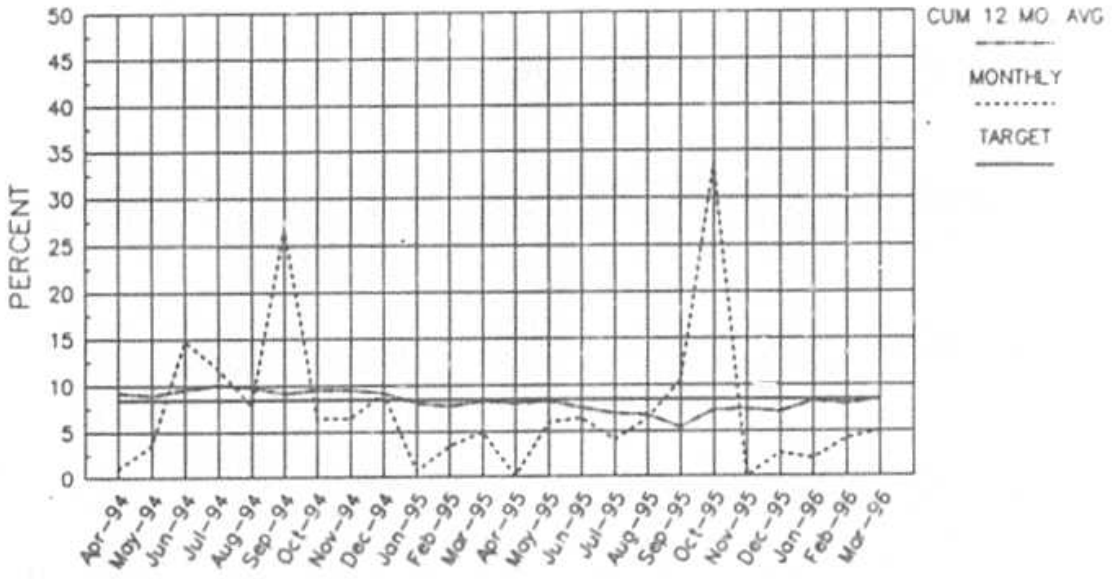


TAMPA ELECTRIC COMPANY
BIG BEND UNIT NO. 1
PLANNED OUTAGE 1997
PROJECTED CPM
10/01/96

TAMPA ELECTRIC CO.

GANNON UNIT #5

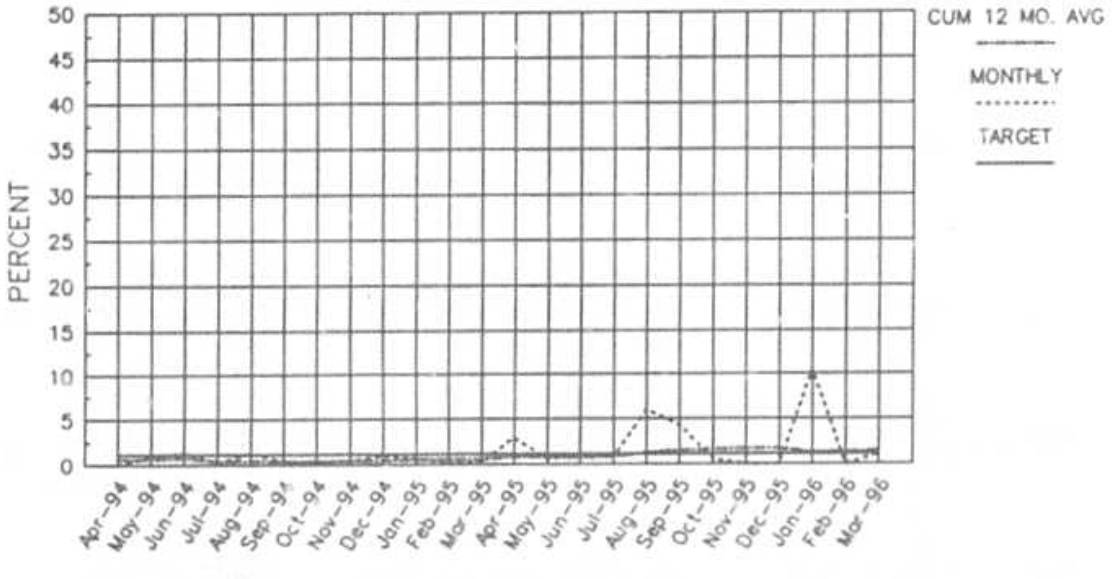
EFOF (ADJUSTED FOR PLANNED OUTAGE HOURS)



TAMPA ELECTRIC CO.

GANNON UNIT #5

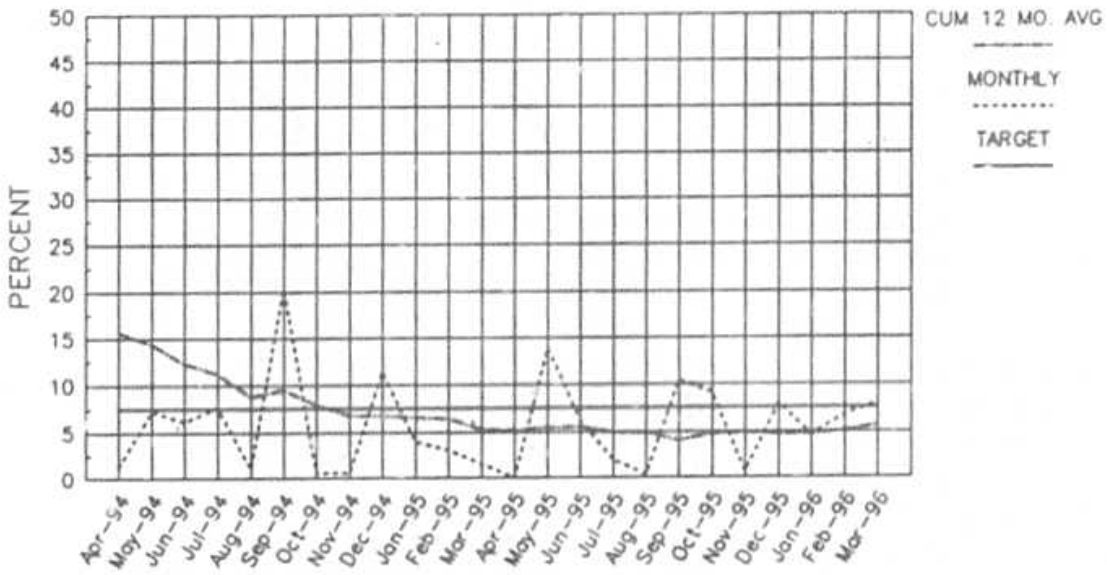
EMOF (ADJUSTED FOR PLANNED OUTAGE HOURS)



TAMPA ELECTRIC CO.

GANNON UNIT #6

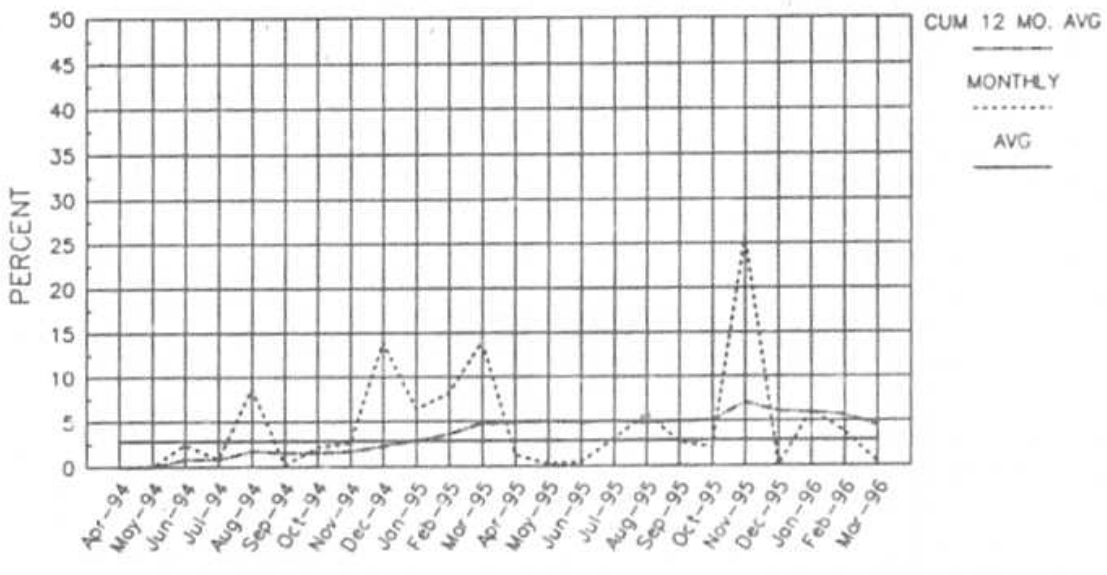
EFOF (ADJUSTED FOR PLANNED OUTAGE HOURS)



TAMPA ELECTRIC CO.

GANNON UNIT #6

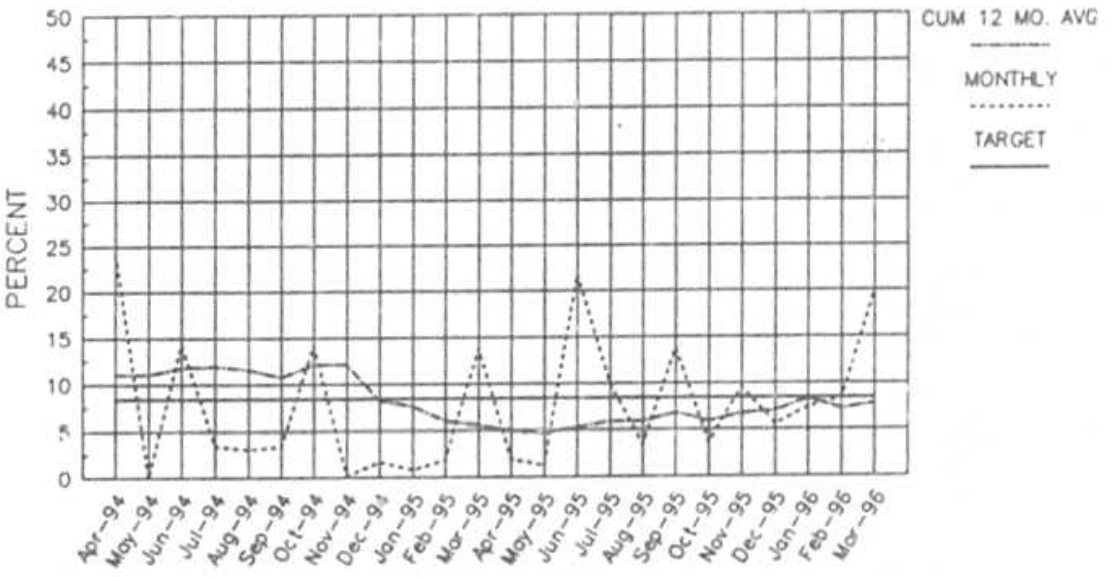
EMOF (ADJUSTED FOR PLANNED OUTAGE HOURS)



TAMPA ELECTRIC CO.

BIG BEND UNIT #1

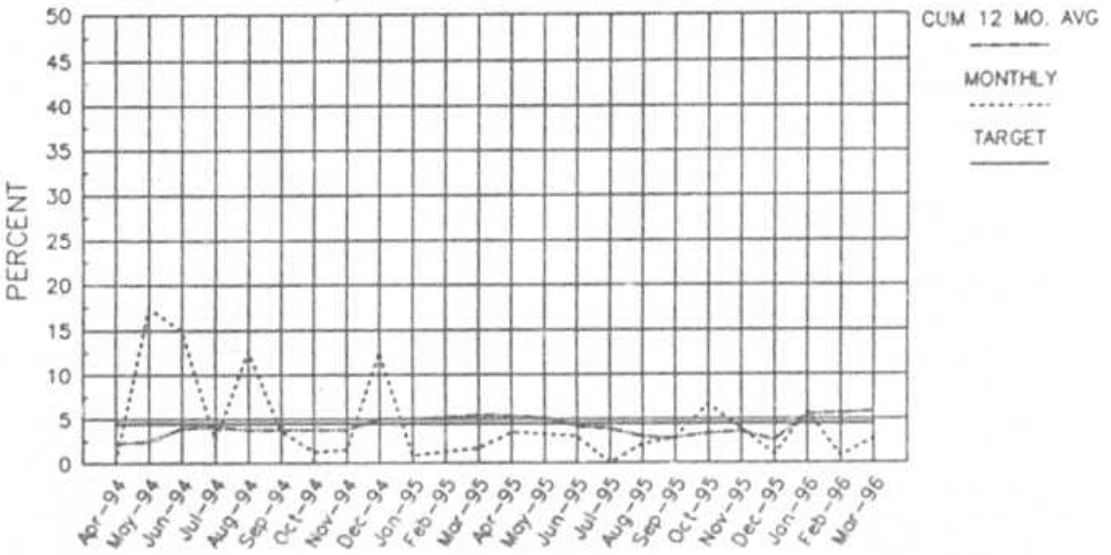
EFOF (ADJUSTED FOR PLANNED OUTAGE HOURS)



TAMPA ELECTRIC CO.

BIG BEND UNIT #1

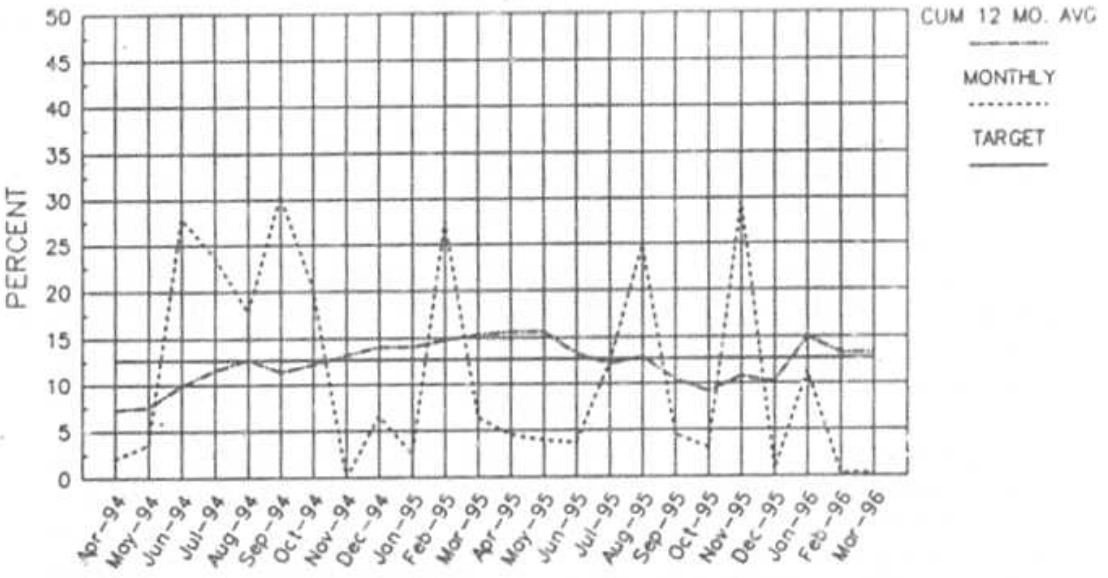
EMOF (ADJUSTED FOR PLANNED OUTAGE HOURS)



TAMPA ELECTRIC CO.

BIG BEND UNIT #2

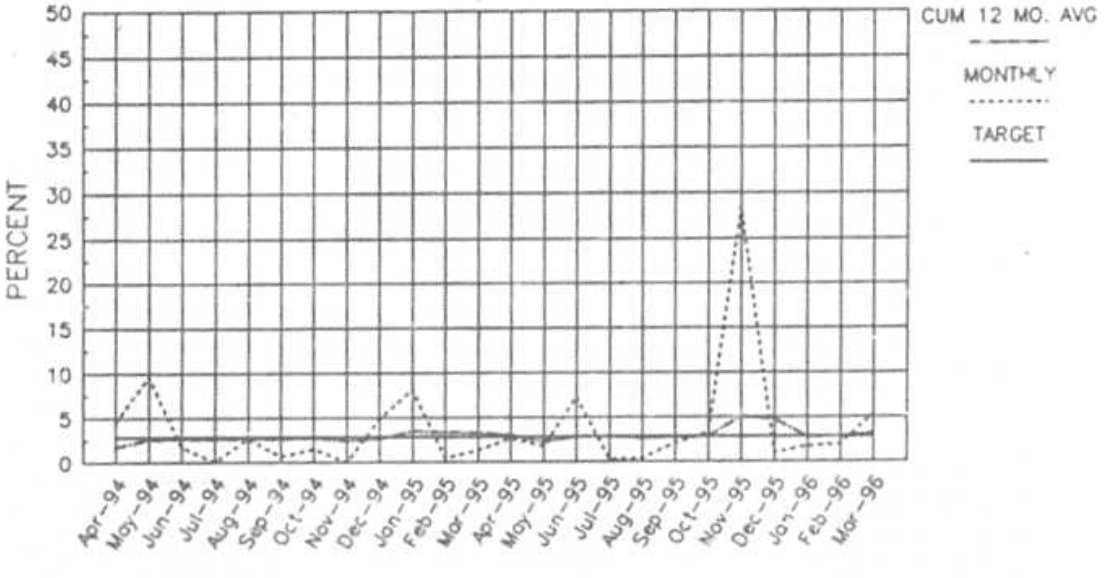
EFOF (ADJUSTED FOR PLANNED OUTAGE HOURS)



TAMPA ELECTRIC CO.

BIG BEND UNIT #2

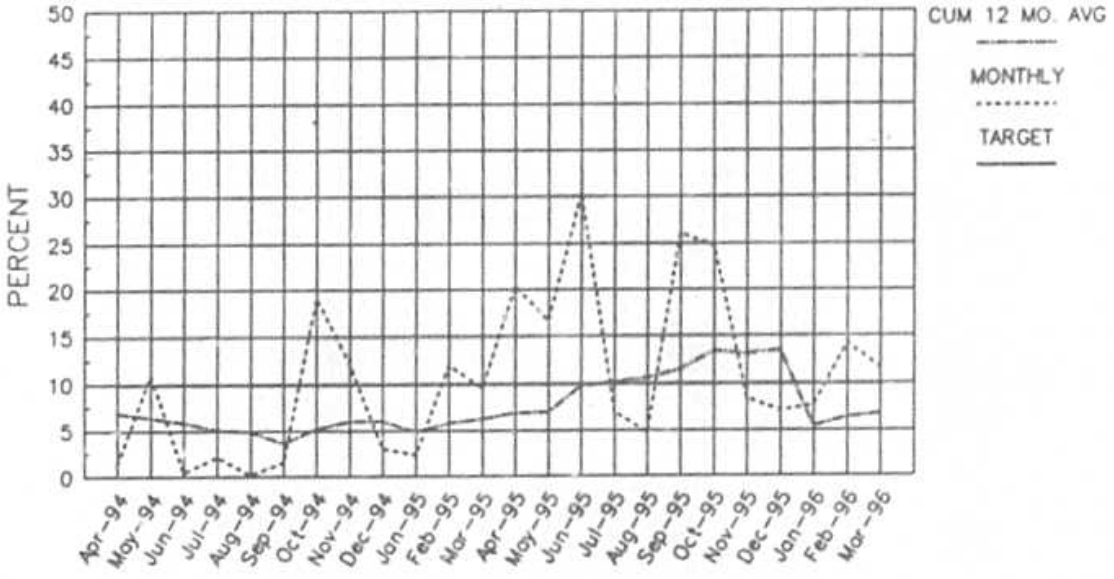
EMOF (ADJUSTED FOR PLANNED OUTAGE HOURS)



TAMPA ELECTRIC CO.

BIG BEND UNIT #3

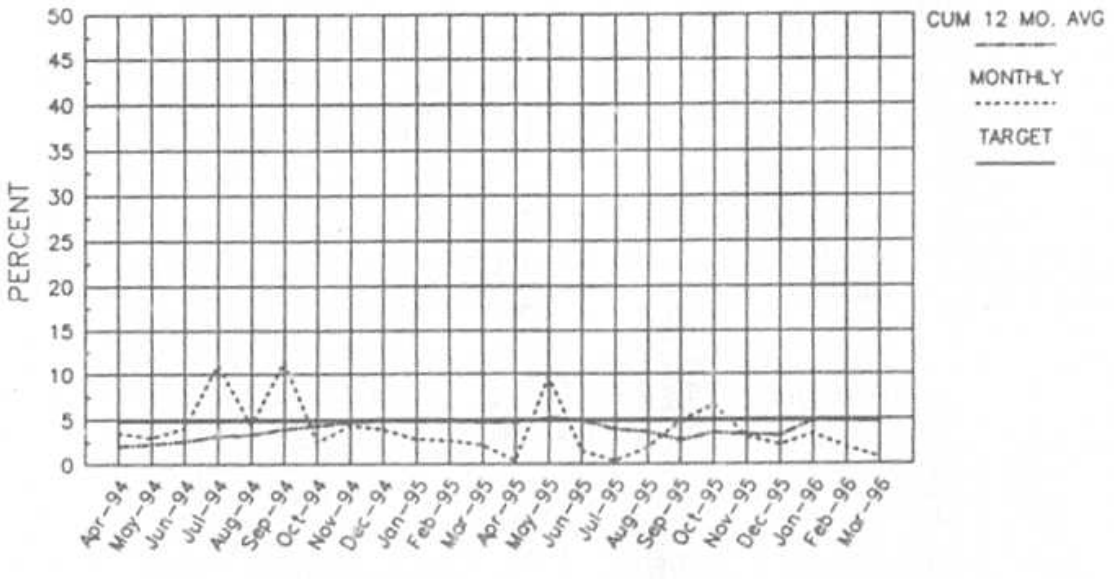
EFOF (ADJUSTED FOR PLANNED OUTAGE HOURS)



TAMPA ELECTRIC CO.

BIG BEND UNIT #3

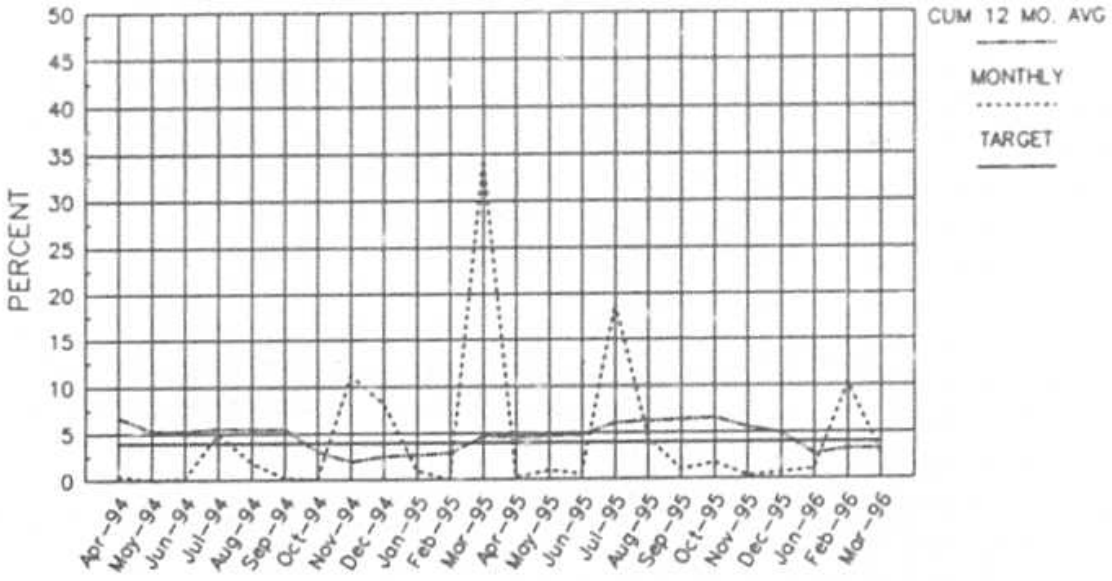
EMOF (ADJUSTED FOR PLANNED OUTAGE HOURS)



TAMPA ELECTRIC CO.

BIG BEND UNIT #4

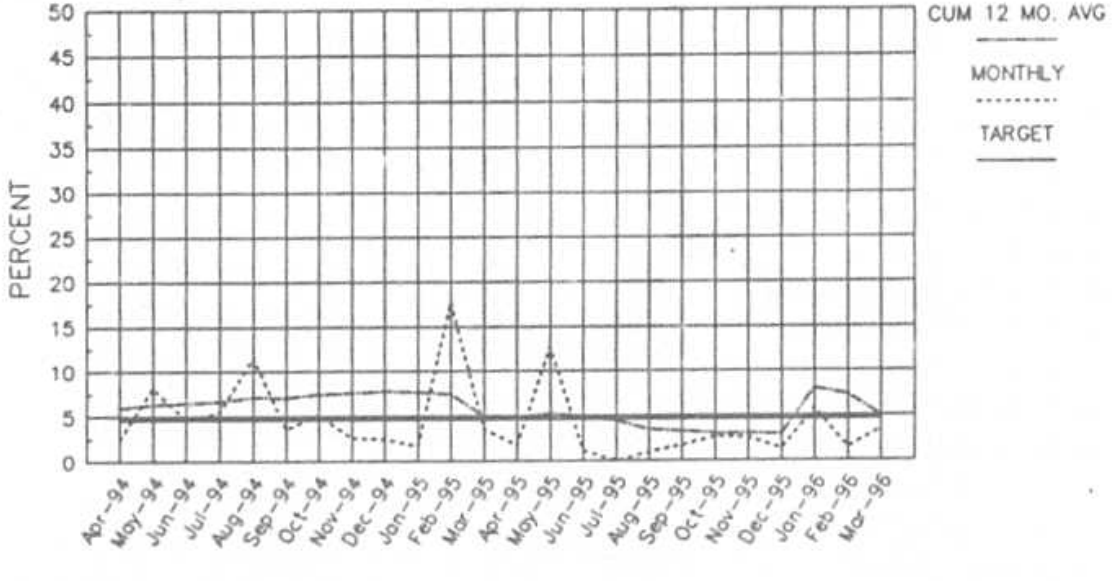
EFOF (ADJUSTED FOR PLANNED OUTAGE HOURS)



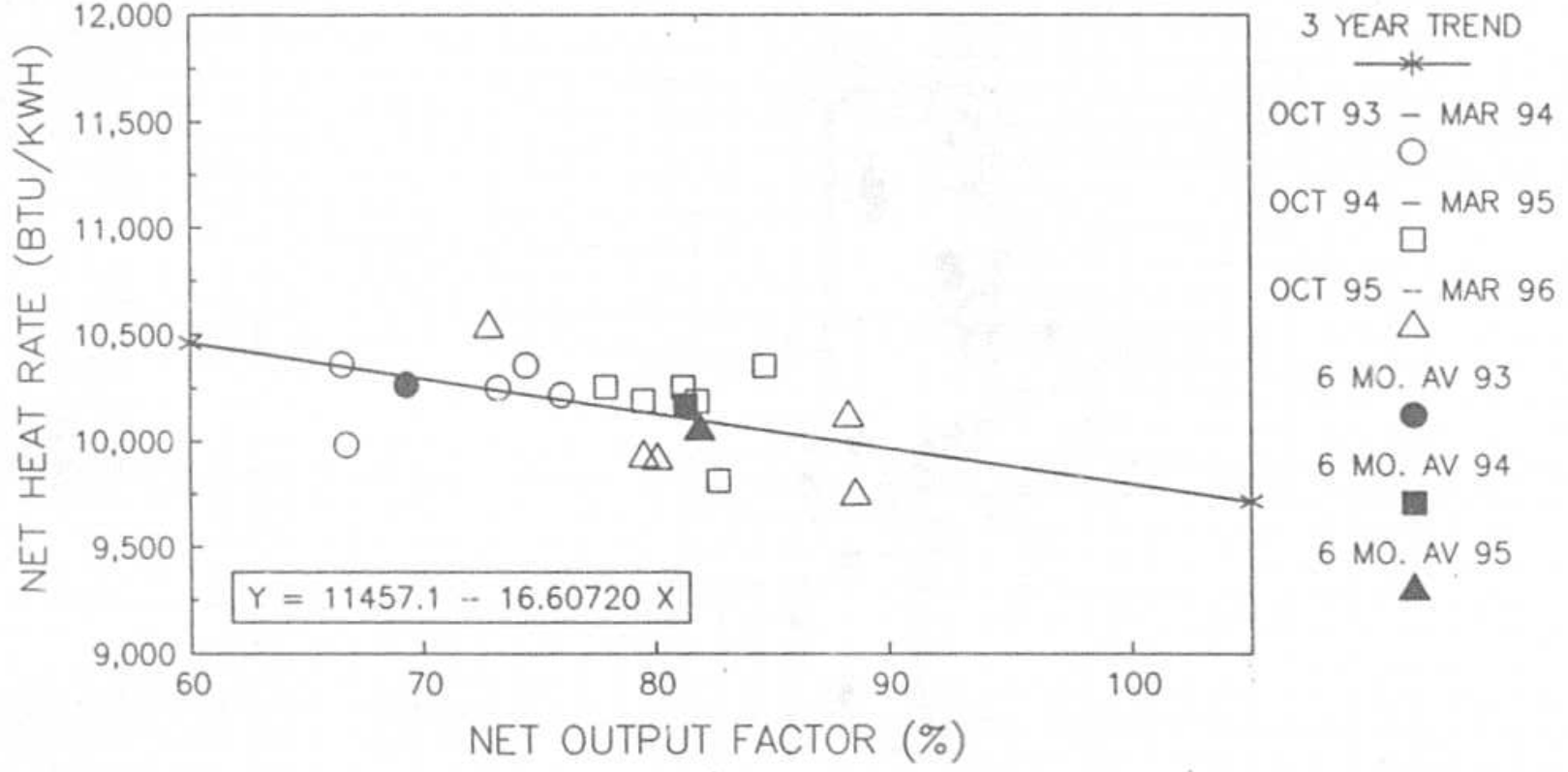
TAMPA ELECTRIC CO.

BIG BEND UNIT #4

EMOF (ADJUSTED FOR PLANNED OUTAGE HOURS)

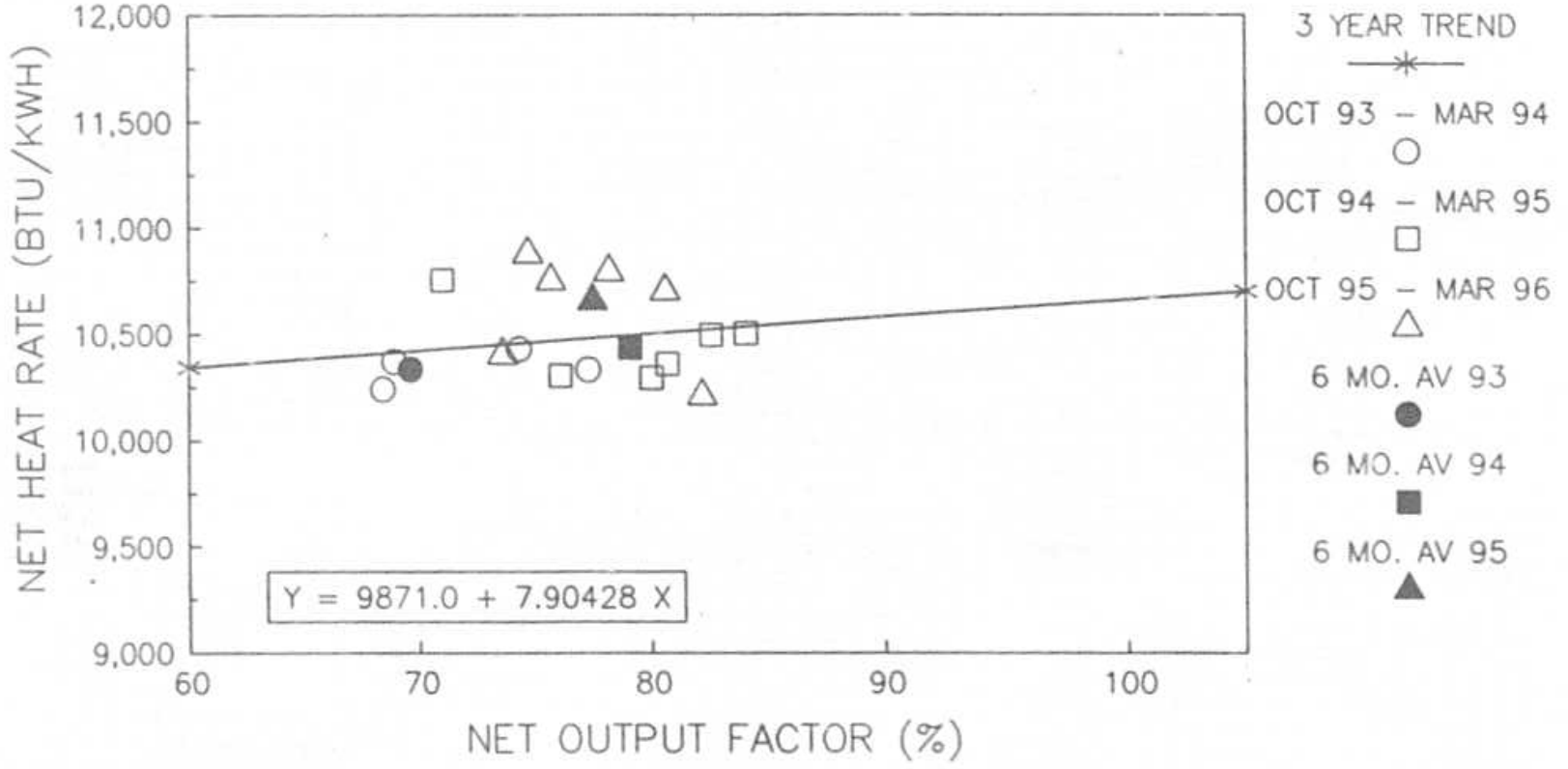


TAMPA ELECTRIC COMPANY
HEAT RATE VS. NET OUTPUT FACTOR
GANNON 5, WINTER 1996



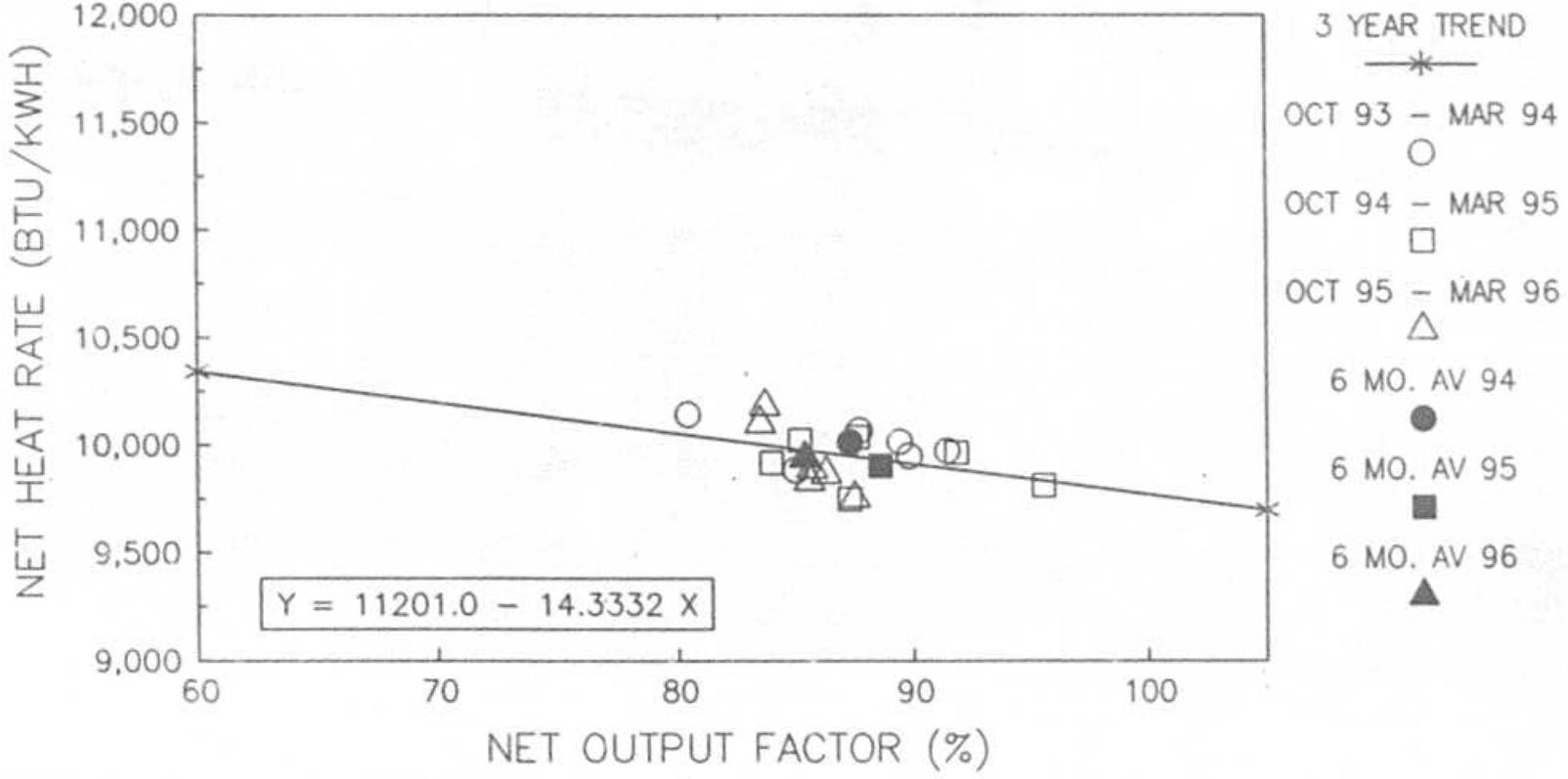
TARGET NET HEAT RATE: 10258
TARGET NET OUTPUT FACTOR: 72.2

TAMPA ELECTRIC COMPANY
HEAT RATE VS. NET OUTPUT FACTOR
GANNON 6, WINTER 1996



TARGET NET HEAT RATE: 10443
TARGET NET OUTPUT FACTOR: 72.4

TAMPA ELECTRIC COMPANY
HEAT RATE VS. NET OUTPUT FACTOR
BIG BEND 1, WINTER 1996

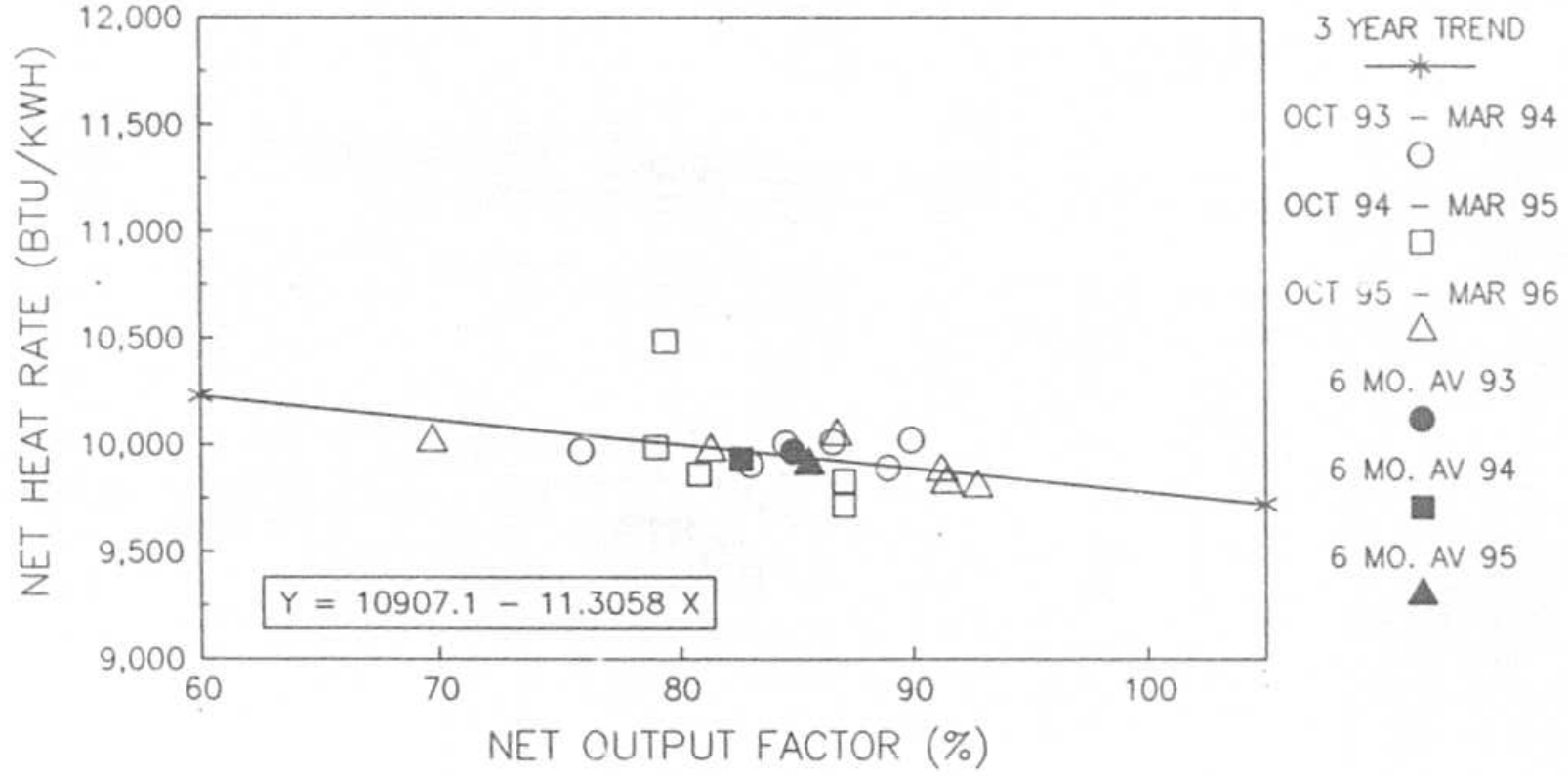


TARGET NET HEAT RATE: 10004
TARGET NET OUTPUT FACTOR: 83.5

TAMPA ELECTRIC COMPANY

HEAT RATE VS. NET OUTPUT FACTOR

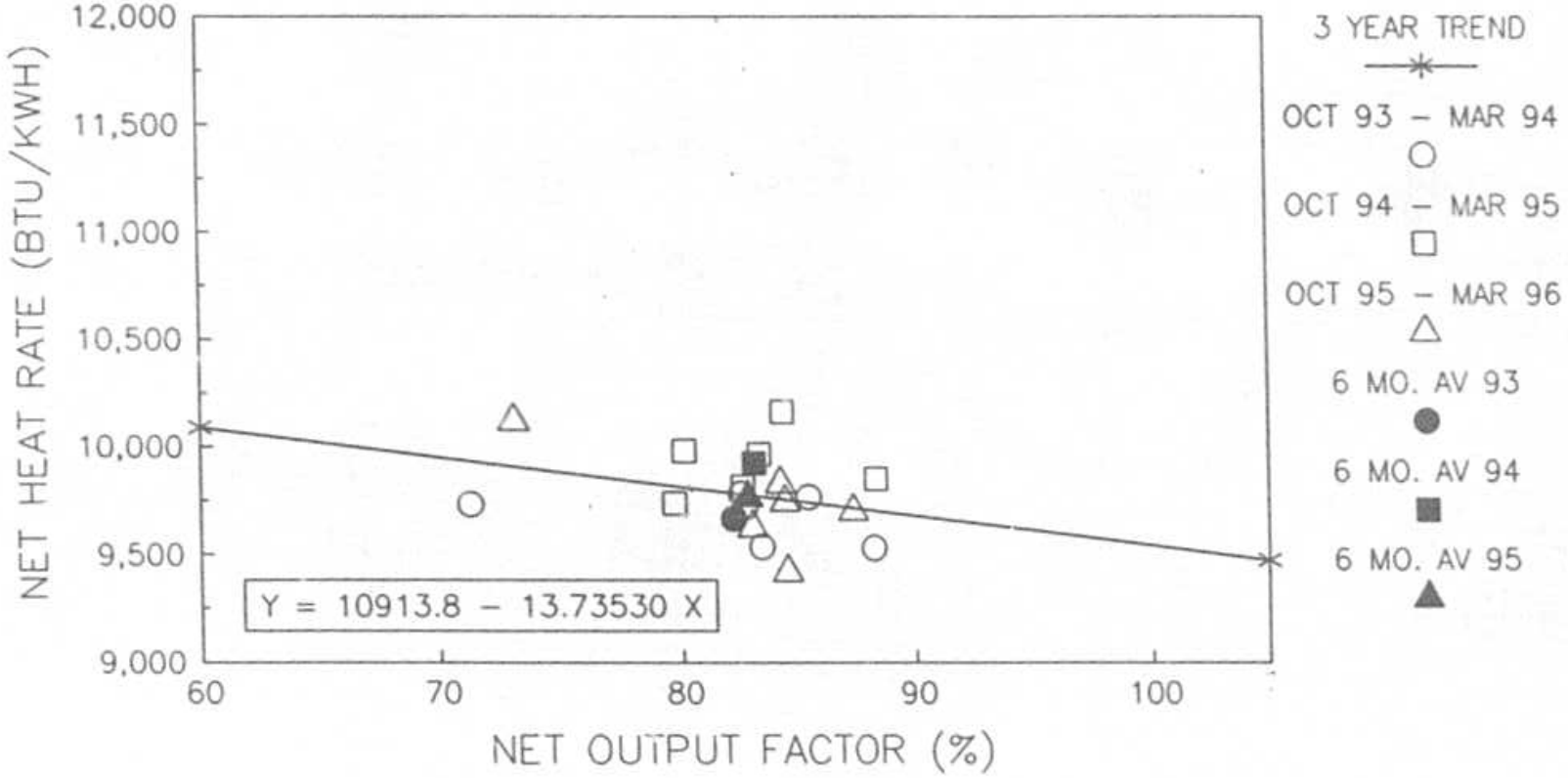
BIG BEND 2, WINTER 1996



TARGET NET HEAT RATE: 9979
TARGET NET OUTPUT FACTOR: 82.1

ORGINAL SHEET NO. 7.401.9E
PAGE 30 OF 35

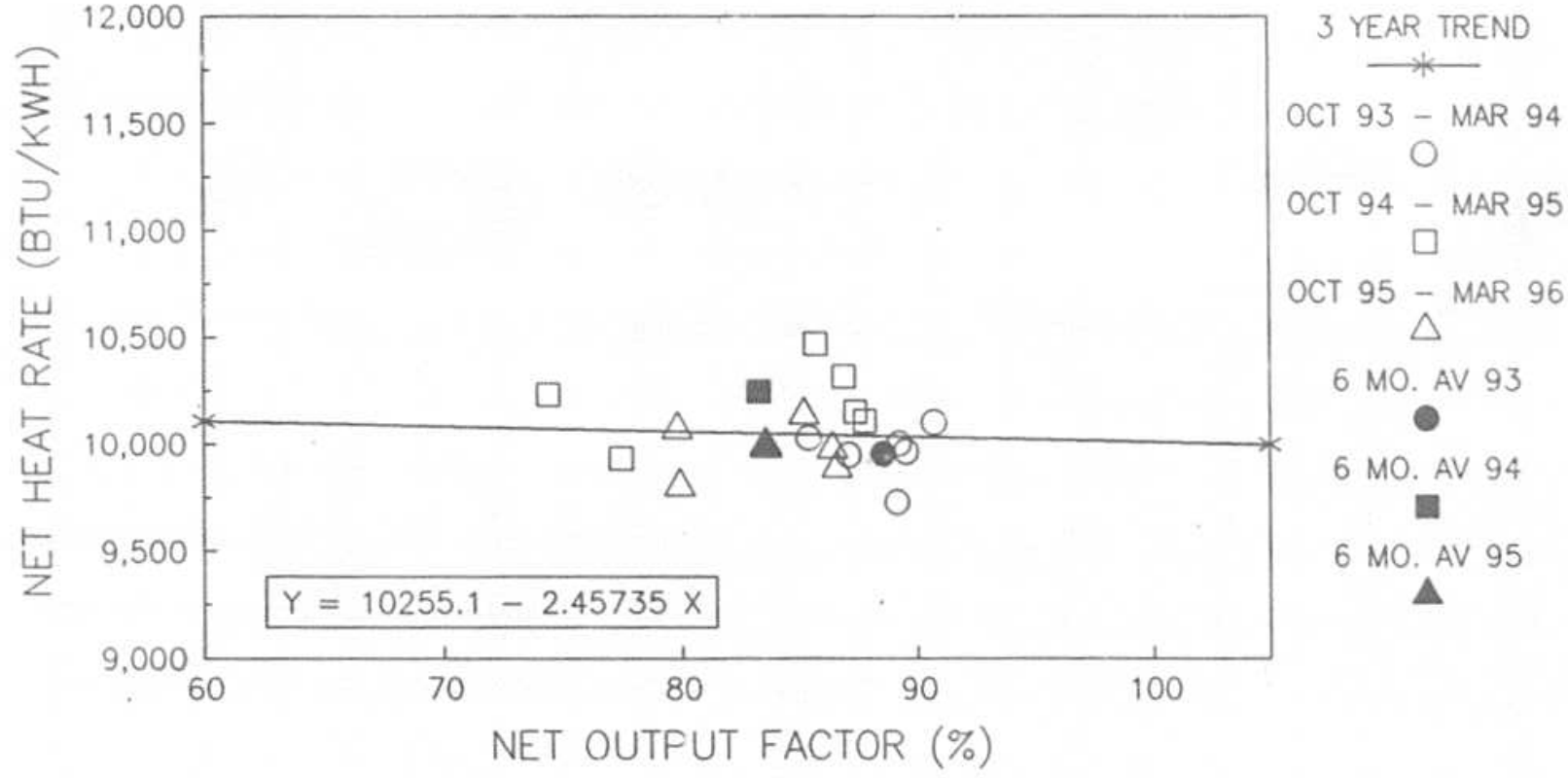
TAMPA ELECTRIC COMPANY
HEAT RATE VS. NET OUTPUT FACTOR
BIG BEND 3, WINTER 1996



TARGET NET HEAT RATE: 9600
TARGET NET OUTPUT FACTOR: 84.1

ORGINAL SHEET NO. 7.401.96E
PAGE 31 OF 35

TAMPA ELECTRIC COMPANY
HEAT RATE VS. NET OUTPUT FACTOR
BIG BEND 4, WINTER 1996



TARGET NET HEAT RATE: 10047
TARGET NET OUTPUT FACTOR: 84.7

ORGINAL SHEET NO. 7.401.96E
PAGE 32 OF 35

TAMPA ELECTRIC COMPANY
TABLE 4.2
GENERATING UNITS IN GPIF
OCTOBER 1996 - MARCH 1997

UNIT		MDC GROSS (MW)	NDC NET (MW)
GANNON 5		245	232
GANNON 6		405	392
BIG BEND 1		445	431
BIG BEND 2		445	431
BIG BEND 3		455	439
BIG BEND 4		475	447
	TOTAL	2470	2372
	SYSTEM TOTAL	3871	3653
	% OF SYSTEM TOTAL	63.81%	64.93%

TAMPA ELECTRIC COMPANY
UNITS RATINGS
OCTOBER 1996 - MARCH 1997

UNIT		MDC GROSS (MW)	NDC NET (MW)
HOOKERS POINT 1		35	34
HOOKERS POINT 2		35	34
HOOKERS POINT 3		35	34
HOOKERS POINT 4		45	43
HOOKERS POINT 5		70	67
	HOOKERS TOTAL	220	212
GANNON 1		125	119
GANNON 2		125	118
GANNON 3		165	155
GANNON 4		200	189
GANNON 5		245	232
GANNON 6		405	392
	GANNON TOTAL	1265	1205
BIG BEND 1		445	431
BIG BEND 2		445	431
BIG BEND 3		455	439
BIG BEND 4		475	447
	BIG BEND TOTAL	1820	1748
GANNON CT		17	17
BIG BEND CT1		17	17
BIG BEND CT2		85	85
BIG BEND CT3		85	85
	CT TOTAL	204	204
PHILLIPS 1		18	17
PHILLIPS 2		18	17
	PHILLIPS TOTAL	36	34
POLK IGCC		326	250
	SYSTEM TOTAL	3871	3653

TAMPA ELECTRIC COMPANY
PERCENT GENERATION BY UNIT
OCTOBER 1996 - MARCH 1997

STATION	UNIT	NET OUTPUT MWH	% OF PROJECTED OUTPUT	% CUMULATIVE PROJECTED OUTPUT
BIG BEND	4	1,545,079	18.76%	18.76%
BIG BEND	2	1,221,768	14.83%	33.59%
BIG BEND	1	1,214,993	14.75%	48.34%
BIG BEND	3	1,137,212	13.81%	62.15%
GANNON	6	941,592	11.43%	73.58%
GANNON	5	628,233	7.63%	81.21%
POLK IGCC		577,117	7.01%	88.21%
GANNON	4	304,031	3.69%	91.90%
GANNON	3	263,303	3.20%	95.10%
GANNON	1	215,320	2.61%	97.72%
GANNON	2	176,684	2.15%	99.86%
HOOKERS POINT	5	2,383	0.03%	99.89%
PHILLIPS	2	1,507	0.02%	99.91%
HOOKERS POINT	4	1,473	0.02%	99.93%
PHILLIPS	1	1,461	0.02%	99.94%
HOOKERS POINT	3	1,044	0.01%	99.96%
BIG BEND CT	3	933	0.01%	99.97%
HOOKERS POINT	2	916	0.01%	99.98%
HOOKERS POINT	1	766	0.01%	99.99%
BIG BEND CT	2	742	0.01%	100.00%
BIG BEND CT	1	133	0.00%	100.00%
GANNON CT	1	125	0.00%	
TOTAL GENERATION		8,236,815	100.00%	

GENERATION BY COAL UNITS:	8,225,332	MWH
% GENERATION BY COAL UNITS:	99.86%	
GENERATION BY OIL UNITS:	11,483	MWH
% GENERATION BY OIL UNITS:	0.14%	
GENERATION BY GPIF UNITS:	6,688,877	MWH
% GENERATION BY GPIF UNITS:	81.21%	

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE FACTOR
OCTOBER 1996 - MARCH 1997
TABLE OF CONTENTS

TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

OCTOBER 1996 - MARCH 1997

PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
BIG BEND 1	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	WINTER 1996
1. EAF (%)	87.0	66.8	59.0	87.2	87.2	64.7	75.2
2. POF	0.0	23.3	32.3	0.0	0.0	25.8	13.7
3. EUOF	13.0	9.9	8.7	12.8	12.8	9.5	11.1
4. EUOR	13.0	12.9	12.9	12.8	12.8	12.9	12.9
5. PH	745	720	744	744	672	744	4369
6. SH	683	506	463	683	617	506	3458
7. RSH	0	0	0	0	0	0	0
8. UH	62	214	281	61	55	238	911
9. POH	0	168	240	0	0	192	600
10. FOH & EFOH	63	46	42	62	56	46	315
11. MOH & EMOH	34	25	23	33	30	25	170
12. OPER BTU (GBTU)	2464.623	1840.588	1665.571	2221.818	2174.899	1767.517	12155.016
13. NET GEN (MWH)	244437	184132	169703	222388	218013	176321	1214994
14. ANOHR (BTU/KWH)	10083	9996	9932	9991	9976	10024	10004
15. NOF (%)	86.0	86.4	87.1	77.3	83.9	82.8	83.5
16. NSC (MW)	421	421	421	421	421	421	421
17. ANOHR EQUATION	ANOHR = NOF(-14.33320) + 11201.0						

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TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

OCTOBER 1996 - MARCH 1997

PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
BIG BEND 2	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	WINTER 1996
1. EAF (%)	84.3	39.3	84.4	84.4	84.5	84.4	77.0
2. POF	0.0	53.3	0.0	0.0	0.0	0.0	8.8
3. EUOF	15.7	7.4	15.6	15.6	15.5	15.6	14.2
4. EUOR	15.7	15.8	15.6	15.6	15.5	15.6	15.6
5. PH	745	720	744	744	672	744	4369
6. SH	660	296	660	660	596	660	3534
7. RSH	0	0	0	0	0	0	0
8. UH	85	422	84	84	76	84	835
9. POH	0	384	0	0	0	0	384
10. FOH & EFOH	95	43	94	94	85	94	505
11. MOH & EMOH	22	10	22	22	19	22	117
12. OPER BTU (GBTU)	2365.439	1091.708	2398.580	2089.577	2009.480	2257.111	12191.893
13. NET GEN (MWH)	237696	110229	241732	205830	200506	225775	1221768
14. ANOHR (BTU/KWH)	9952	9904	9922	10055	10022	9997	9979
15. NOF (%)	85.5	87.9	87.0	74.1	79.9	81.3	82.1
16. NSC (MW)	421	421	421	421	421	421	421
17. ANOHR EQUATION	ANOHR = NOF(-11.30580) + 10907.1						

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TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

OCTOBER 1996 - MARCH 1997

PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
BIG BEND 3 FADJ	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	WINTER 1996
1. EAF (%)	85.0	85.1	85.2	85.2	83.8	19.2	70.6
2. POF	0.0	0.0	0.0	0.0	25.0	77.4	17.0
3. EUOF	15.0	14.9	14.8	14.8	11.2	3.4	12.3
4. EUOR	15.0	14.9	14.8	14.8	14.9	14.9	14.9
5. PH	745	720	744	744	672	744	4369
6. SH	662	641	662	662	427	150	3204
7. RSH	0	0	0	0	0	0	0
8. UH	83	79	82	82	245	594	1165
9. POH	0	0	0	0	168	576	744
10. FOH & EFOH	75	72	74	74	50	17	362
11. MOH & EMOH	37	35	36	36	25	8	177
12. OPER BTU (GBTU)	2318.878	2275.512	2330.265	2159.392	1501.373	537.249	11122.669
13. NET GEN (MWH)	234017	233318	239177	221578	154094	55029	1137213
14. ANOHR (BTU/KWH)	9909	9753	9743	9746	9743	9763	9781
15. NOF (%)	82.2	84.6	84.0	77.8	83.9	85.3	82.5
16. NSC (MW)	430	430	430	430	430	430	430
17. ANOHR EQUATION	ANOHR = NOF(-16.79250) + 11215.9						

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TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

OCTOBER 1996 - MARCH 1997

PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
BIG BEND 4	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	WINTER 1996
1. EAF (%)	91.3	91.3	91.3	91.3	91.2	91.3	91.3
2. POF	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. EUOF	8.7	8.8	8.7	8.7	8.8	8.7	8.7
4. EUOR	8.7	8.8	8.7	8.7	8.8	8.7	8.7
5. PH	745	720	744	744	672	744	4389
6. SH	708	686	708	708	639	708	4156
7. RSH	0	0	0	0	0	0	0
8. UH	37	35	36	36	33	36	213
9. POH	0	0	0	0	0	0	0
10. FOH & EFOH	30	29	30	30	27	30	176
11. MOH & EMOH	35	34	35	35	32	35	206
12. OPER BTU (GBTU)	2576.022	2629.520	2672.999	2519.294	2431.347	2694.168	15523.350
13. NET GEN (MWH)	254406	262851	266272	250316	242337	268897	1545079
14. ANOHR (BTU/KWH)	10126	10004	10039	10064	10033	10019	10047
15. NOF (%)	81.9	87.4	85.7	80.5	86.4	86.5	84.7
16. NSC (MW)	439	439	439	439	439	439	439
17. ANOHR EQUATION	ANOHR = NOF(-2.45735) + 10255.1						

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TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

OCTOBER 1996 - MARCH 1997

PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
GANNON 1	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	WINTER 1996
1. EAF (%)	89.4	89.4	89.4	89.4	89.4	89.4	89.4
2. POF	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. EUOF	10.6	10.6	10.6	10.6	10.6	10.6	10.6
4. EUOR	10.6	10.6	10.6	10.6	10.6	10.6	10.6
5. PH	745	720	744	744	672	744	4369
6. SH	340	319	504	490	465	517	2635
7. RSH	0	0	0	0	0	0	0
8. UH	405	401	240	254	207	227	1734
9. POH	0	0	0	0	0	0	0
10. FOH & EFOH	31	30	31	31	28	31	182
11. MOH & EMOH	48	48	48	48	43	48	281
12. OPER BTU (GBTU)	394.309	367.606	452.190	341.772	409.526	476.521	2441.926
13. NET GEN (MWH)	35003	32802	39954	29528	36061	41974	215320
14. ANOHR (BTU/KWH)	11265	11207	11318	11575	11356	11353	11341
15. NOF (%)	86.5	86.4	66.6	50.6	65.2	68.2	68.7
16. NSC (MW)	119	119	119	119	119	119	119

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GANNON 2	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	WINTER 1996
1. EAF (%)	80.9	80.8	80.9	80.9	81.0	80.9	80.9
2. POF	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. EUOF	19.1	19.2	19.1	19.1	19.0	19.1	19.1
4. EUOR	19.1	19.2	19.1	19.1	19.0	19.1	19.1
5. PH	745	720	744	744	672	744	4369
6. SH	255	249	476	465	438	480	2363
7. RSH	0	0	0	0	0	0	0
8. UH	490	471	268	279	234	264	2006
9. POH	0	0	0	0	0	0	0
10. FOH & EFOH	86	84	86	86	78	86	506
11. MOH & EMOH	56	54	56	56	50	56	328
12. OPER BTU (GBTU)	293.701	283.391	395.386	296.767	355.536	415.963	2040.743
13. NET GEN (MWH)	25490	25190	34346	24970	30801	35888	176685
14. ANOHR (BTU/KWH)	11522	11250	11512	11886	11543	11591	11550
15. NOF (%)	84.0	85.0	60.6	45.1	59.1	62.6	62.6
16. NSC (MW)	119	119	119	119	119	119	119

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GANNON 3	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	WINTER 1996
1. EAF (%)	50.7	87.5	87.5	87.5	87.5	87.5	81.2
2. POF	41.9	0.0	0.0	0.0	0.0	0.0	7.1
3. EUOF	7.4	12.5	12.5	12.5	12.5	12.5	11.6
4. EUOR	12.7	12.5	12.5	12.5	12.5	12.5	12.5
5. PH	745	720	744	744	672	744	4369
6. SH	185	309	510	493	473	511	2481
7. RSH	0	0	0	0	0	0	0
8. UH	560	411	234	251	199	233	1888
9. POH	312	0	0	0	0	0	312
10. FOH & EFOH	29	48	49	49	44	49	268
11. MOH & EMOH	28	42	44	44	40	44	240
12. OPER BTU (GBTU)	280.222	449.405	608.815	467.500	553.291	626.758	2985.991
13. NET GEN (MWH)	24813	40333	53921	40234	48851	55151	263303
14. ANOHR (BTU/KWH)	11293	11142	11291	11620	11326	11364	11341
15. NOF (%)	86.5	84.2	86.2	52.7	86.6	89.6	68.5
16. NSC (MW)	155	155	155	155	155	155	155

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GANNON 4	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	WINTER 1996
1. EAF (%)	49.3	89.7	89.7	89.7	89.7	89.7	82.8
2. POF	45.1	0.0	0.0	0.0	0.0	0.0	7.7
3. EUOF	5.6	10.3	10.3	10.3	10.3	10.3	9.5
4. EUOR	10.3	10.3	10.3	10.3	10.3	10.3	10.3
5. PH	745	720	744	744	672	744	4369
6. SH	205	352	528	508	500	536	2629
7. RSH	0	0	0	0	0	0	0
8. UH	540	368	216	236	172	208	1740
9. POH	336	0	0	0	0	0	336
10. FOH & EFOH	28	46	47	47	42	47	254
11. MOH & EMOH	16	29	30	30	27	30	162
12. OPER BTU (GBTU)	364.884	618.704	619.628	455.539	561.247	663.376	3303.358
13. NET GEN (MWH)	34246	58626	58765	40413	53225	60756	304031
14. ANOHR (BTU/KWH)	10654	10553	10916	11272	10921	10919	10865
15. NOF (%)	88.4	88.1	56.9	42.1	56.3	60.0	61.2
16. NSC (MW)	189	189	189	189	189	189	189

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GANNON 5	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	WINTER 1996
1. EAF (%)	78.7	81.3	90.3	90.3	67.7	90.3	83.4
2. POF	12.9	10.0	0.0	0.0	25.0	0.0	7.7
3. EUOF	8.5	8.8	9.7	9.7	7.3	9.7	8.9
4. EUOR	9.7	9.7	9.7	9.7	9.7	9.7	9.7
5. PH	745	720	744	744	672	744	4369
6. SH	615	616	707	707	479	707	3831
7. RSH	0	0	0	0	0	0	0
8. UH	130	104	37	37	193	37	538
9. POH	98	72	0	0	168	0	336
10. FOH & EFOH	55	55	63	63	43	63	342
11. MOH & EMOH	8	8	9	9	6	9	49
12. OPER BTU (GBTU)	1042.175	1079.499	1220.442	1061.863	813.270	1207.203	6444.452
13. NET GEN (MWH)	100113	105689	119721	105182	79645	117883	628233
14. ANOHR (BTU/KWH)	10410	10214	10194	10286	10211	10241	10258
15. NOF (%)	71.7	75.6	74.6	65.5	73.2	73.5	72.2
16. NSC (MW)	227	227	227	227	227	227	227
17. ANOHR EQUATION	ANOHR = NOF(-16.60720) + 11457.1						

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GANNON 6	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	WINTER 1996
1. EAF (%)	89.5	89.5	69.3	89.5	67.1	89.5	82.6
2. POF	0.0	0.0	22.6	0.0	25.0	0.0	7.7
3. EUOF	10.5	10.5	8.1	10.5	7.9	10.5	9.7
4. EUOR	10.5	10.5	10.5	10.5	10.5	10.5	10.5
5. PH	745	720	744	744	672	744	4369
6. SH	663	642	513	663	449	663	3593
7. RSH	0	0	0	0	0	0	0
8. UH	82	78	231	81	223	81	776
9. POH	0	0	168	0	168	0	336
10. FOH & EFOH	46	45	36	46	31	46	250
11. MOH & EMOH	32	31	25	32	22	32	174
12. OPER BTU (GBTU)	1879.685	1792.465	1446.784	1600.056	1268.983	1843.327	9633.300
13. NET GEN (MWH)	178853	172005	139513	152284	122148	176789	941592
14. ANOHR (BTU/KWH)	0	10421	10365	10507	10389	10427	10443
15. NOF (%)	0.0	74.0	75.1	63.5	75.2	73.7	72.4
16. NSC (MW)	362	362	362	362	362	362	362
17. ANOHR EQUATION	ANOHR = NOF(7.90428) + 9871.0						

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HOOKERS PT 1	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	WINTER 1996
1. EAF (%)	93.0	93.1	93.0	72.0	93.2	93.0	89.5
2. POF	0.0	0.0	0.0	22.6	0.0	0.0	3.8
3. EUOF	7.0	6.9	7.0	5.4	6.8	7.0	6.7
4. EUOR	7.0	6.9	7.0	6.9	6.8	7.0	7.0
5. PH	745	720	744	744	672	744	4369
6. SH	3	6	2	4	6	3	24
7. RSH	0	0	0	0	0	0	0
8. UH	742	714	742	740	666	741	4345
9. POH	0	0	0	168	0	0	168
10. FOH & EFOH	36	35	36	28	32	36	203
11. MOH & EMOH	16	15	16	12	14	16	89
12. OPER BTU (GBTU)	1.593	3.246	1.245	2.398	3.257	1.723	13.457
13. NET GEN (MWH)	89	184	71	137	187	98	766
14. ANOHR (BTU/KWH)	17899	17652	17535	17431	17417	17612	17568
15. NOF (%)	92.7	95.8	110.9	107.0	97.4	102.1	99.7
16. NSC (MW)	32	32	32	32	32	32	32

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HOOKERS PT 2	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	WINTER 1996
1. EAF (%)	93.0	93.1	93.0	93.0	93.2	93.0	93.0
2. POF	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. EUOF	7.0	6.9	7.0	7.0	6.8	7.0	7.0
4. EUOR	7.0	6.9	7.0	7.0	6.8	7.0	7.0
5. PH	745	720	744	744	672	744	4369
6. SH	3	7	3	6	7	4	30
7. RSH	0	0	0	0	0	0	0
8. UH	742	713	741	738	665	740	4339
9. POH	0	0	0	0	0	0	0
10. FOH & EFOH	36	35	36	36	32	36	211
11. MOH & EMOH	16	15	16	16	14	16	93
12. OPER BTU (GBTU)	1.871	3.831	1.439	3.176	3.618	2.065	16.000
13. NET GEN (MWH)	106	218	83	183	208	118	916
14. ANOHR (BTU/KWH)	17651	17573	17337	17355	17394	17500	17467
15. NOF (%)	110.4	97.3	86.5	95.3	92.9	92.2	95.4
16. NSC (MW)	32	32	32	32	32	32	32

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HOOKERS PT 3	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	WINTER 1996
1. EAF (%)	93.0	93.1	93.0	93.0	93.2	93.0	93.0
2. POF	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. EUOF	7.0	6.9	7.0	7.0	6.8	7.0	7.0
4. EUOR	7.0	6.9	7.0	7.0	6.8	7.0	7.0
5. PH	745	720	744	744	672	744	4369
6. SH	4	8	3	6	7	5	33
7. RSH	0	0	0	0	0	0	0
8. UH	741	712	741	738	665	739	4336
9. POH	0	0	0	0	0	0	0
10. FOH & EFOH	36	35	36	36	32	36	211
11. MOH & EMOH	16	15	16	16	14	16	93
12. OPER BTU (GBTU)	2.201	4.472	1.652	3.256	3.994	2.442	18.017
13. NET GEN (MWH)	126	258	96	190	233	141	1044
14. ANOHR (BTU/KWH)	17468	17333	17208	17137	17142	17319	17258
15. NOF (%)	96.4	100.8	100.0	99.0	104.0	86.1	98.9
16. NSC (MW)	32	32	32	32	32	32	32

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HOOKERS PT 4	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	WINTER 1996
1. EAF (%)	93.0	93.1	93.0	72.0	93.2	93.0	89.5
2. POF	0.0	0.0	0.0	22.6	0.0	0.0	3.8
3. EUOF	7.0	6.9	7.0	5.4	6.8	7.0	6.7
4. EUOR	7.0	6.9	7.0	6.9	6.8	7.0	7.0
5. PH	745	720	744	744	672	744	4369
6. SH	5	10	4	5	8	6	38
7. RSH	0	0	0	0	0	0	0
8. UH	740	710	740	739	664	738	4331
9. POH	0	0	0	168	0	0	168
10. FOH & EFOH	36	35	36	28	32	36	203
11. MOH & EMOH	16	15	16	12	14	16	89
12. OPER BTU (GBTU)	3.321	6.693	2.397	3.261	5.596	3.709	24.979
13. NET GEN (MWH)	192	394	142	194	333	218	1473
14. ANOHR (BTU/KWH)	17297	16987	16880	16809	16811	17014	16958
15. NOF (%)	93.7	96.1	88.6	94.8	101.5	88.6	94.5
16. NSC (MW)	41	41	41	41	41	41	41

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HOOKERS PT 5	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	WINTER 1996
1. EAF (%)	79.6	79.6	79.6	77.0	62.5	79.6	76.5
2. POF	0.0	0.0	0.0	3.2	21.4	0.0	3.8
3. EUOF	20.4	20.4	20.4	19.8	16.1	20.4	19.6
4. EUOR	20.4	20.4	20.4	20.4	20.5	20.4	20.4
5. PH	745	720	744	744	672	744	4369
6. SH	6	12	4	6	7	7	42
7. RSH	0	0	0	0	0	0	0
8. UH	739	708	740	738	665	737	4327
9. POH	0	0	0	24	144	0	168
10. FOH & EFOH	121	117	121	117	86	121	683
11. MOH & EMOH	31	30	31	30	22	31	175
12. OPER BTU (GBTU)	4.765	9.573	3.368	4.954	5.936	5.863	34.457
13. NET GEN (MWH)	324	661	234	347	414	404	2384
14. ANOHR (BTU/KWH)	14707	14483	14395	14277	14338	14512	14453
15. NOF (%)	80.6	82.2	87.3	86.3	86.3	86.1	84.7
16. NSC (MW)	67	67	67	67	67	67	67

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GANNON CT1	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	WINTER 1996
1. EAF (%)	65.0	65.0	64.9	64.9	65.0	64.9	65.0
2. POF	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. EUOF	35.0	35.0	35.1	35.1	35.0	35.1	35.0
4. EUOR	35.0	35.0	35.1	35.1	35.0	35.1	35.0
5. PH	745	720	744	744	672	744	4369
6. SH	1	2	1	2	1	1	8
7. RSH	0	0	0	0	0	0	0
8. UH	744	718	743	742	671	743	4361
9. POH	0	0	0	0	0	0	0
10. FOH & EFOH	149	144	149	149	134	149	874
11. MOH & EMOH	112	108	112	112	101	112	657
12. OPER BTU (GBTU)	0.333	0.669	0.252	0.548	0.506	0.279	2.587
13. NET GEN (MWH)	16	32	12	26	24	13	123
14. ANOHR (BTU/KWH)	20813	20906	21000	21077	21083	21462	21033
15. NOF (%)	106.7	106.7	80.0	86.7	160.0	86.7	102.5
16. NSC (MW)	15	15	15	15	15	15	15

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BIG BEND CT1	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	WINTER 1996
1. EAF (%)	65.0	65.0	64.9	64.9	65.0	64.9	65.0
2. POF	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. EUOF	35.0	35.0	35.1	35.1	35.0	35.1	35.0
4. EUOR	35.0	35.0	35.1	35.1	35.0	35.1	35.0
5. PH	745	720	744	744	672	744	4369
6. SH	1	2	1	2	2	1	9
7. RSH	0	0	0	0	0	0	0
8. UH	744	718	743	742	670	743	4360
9. POH	0	0	0	0	0	0	0
10. FOH & EFOH	149	144	149	149	134	149	874
11. MOH & EMOH	112	108	112	112	101	112	657
12. OPER BTU (GBTU)	0.331	0.660	0.250	0.536	0.502	0.282	2.561
13. NET GEN (MWH)	17	34	13	28	26	15	133
14. ANOHR (BTU/KWH)	19471	19412	19231	19143	19308	18800	19256
15. NOF (%)	113.3	113.3	86.7	93.3	86.7	100.0	98.5
16. NSC (MW)	15	15	15	15	15	15	15

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BIG BEND CT2	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	WINTER 1996
1. EAF (%)	38.0	69.2	69.1	69.1	69.0	69.1	63.8
2. POF	45.1	0.0	0.0	0.0	0.0	0.0	7.7
3. EUOF	16.9	30.8	30.9	30.9	31.0	30.9	28.5
4. EUOR	30.8	30.8	30.9	30.9	31.0	30.9	30.9
5. PH	745	720	744	744	672	744	4369
6. SH	1	3	1	2	2	1	10
7. RSH	0	0	0	0	0	0	0
8. UH	744	717	743	742	670	743	4359
9. POH	336	0	0	0	0	0	336
10. FOH & EFOH	63	111	115	115	104	115	623
11. MOH & EMOH	63	111	115	115	104	115	623
12. OPER BTU (GBTU)	0.826	3.095	1.448	2.811	2.775	1.665	12.620
13. NET GEN (MWH)	47	174	87	170	166	99	743
14. ANOHR (BTU/KWH)	17574	17787	16644	16535	16717	16818	16985
15. NOF (%)	72.3	69.2	133.8	130.8	127.7	152.3	114.3
16. NSC (MW)	65	65	65	65	65	65	65

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PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
BIG BEND CT3	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	WINTER 1996
1. EAF (%)	69.1	36.9	69.1	69.1	69.0	69.1	63.8
2. POF	0.0	46.7	0.0	0.0	0.0	0.0	7.7
3. EUOF	30.9	16.4	30.9	30.9	31.0	30.9	28.5
4. EUOR	30.9	30.7	30.9	30.9	31.0	30.9	30.9
5. PH	745	720	744	744	672	744	4369
6. SH	2	2	2	3	3	2	14
7. RSH	0	0	0	0	0	0	0
8. UH	743	718	742	741	669	742	4355
9. POH	0	336	0	0	0	0	336
10. FOH & EFOH	115	59	115	115	104	115	623
11. MOH & EMOH	115	59	115	115	104	115	623
12. OPER BTU (GBTU)	1.798	1.953	1.929	3.452	3.739	2.451	15.320
13. NET GEN (MWH)	104	114	119	215	231	150	933
14. ANOHR (BTU/KWH)	17289	17132	16210	16056	16186	16340	16420
15. NOF (%)	80.0	87.7	91.5	110.3	118.5	115.4	102.5
16. NSC (MW)	65	65	65	65	65	65	65

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TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

OCTOBER 1996 - MARCH 1997

PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
PHILLIPS 1	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	WINTER 1996
1. EAF (%)	80.0	80.0	80.0	80.0	80.1	80.0	80.0
2. POF	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. EUOF	20.0	20.0	20.0	20.0	19.9	20.0	20.0
4. EUOR	20.0	20.0	20.0	20.0	19.9	20.0	20.0
5. PH	745	720	744	744	672	744	4369
6. SH	16	27	8	9	14	15	89
7. RSH	0	0	0	0	0	0	0
8. UH	729	693	736	735	658	729	4280
9. POH	0	0	0	0	0	0	0
10. FOH & EFOH	52	50	52	52	47	52	305
11. MOH & EMOH	97	94	97	97	87	97	569
12. OPER BTU (GBTU)	2.578	4.279	1.332	1.415	2.299	2.330	14.233
13. NET GEN (MWH)	265	439	137	145	236	239	1461
14. ANOHR (BTU/KWH)	9728	9747	9723	9759	9742	9749	9742
15. NOF (%)	97.4	95.6	100.7	94.8	99.2	93.7	96.6
16. NSC (MW)	17	17	17	17	17	17	17

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OCTOBER 1996 - MARCH 1997

PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
PHILLIPS 2	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	WINTER 1996
1. EAF (%)	80.0	80.0	80.0	80.0	80.1	80.0	80.0
2. POF	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. EUOF	20.0	20.0	20.0	20.0	19.9	20.0	20.0
4. EUOR	20.0	20.0	20.0	20.0	19.9	20.0	20.0
5. PH	745	720	744	744	672	744	4369
6. SH	17	28	9	9	15	15	93
7. RSH	0	0	0	0	0	0	0
8. UH	728	692	735	735	657	729	4276
9. POH	0	0	0	0	0	0	0
10. FOH & EFOH	52	50	52	52	47	52	305
11. MOH & EMOH	97	94	97	97	87	97	569
12. OPER BTU (GBTU)	2.630	4.368	1.358	1.421	2.327	2.364	14.468
13. NET GEN (MWH)	274	454	141	148	242	248	1507
14. ANOHR (BTU/KWH)	9599	9621	9631	9601	9616	9613	9614
15. NOF (%)	94.8	95.4	92.2	96.7	94.9	97.3	95.3
16. NSC (MW)	17	17	17	17	17	17	17

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ESTIMATED UNIT PERFORMANCE DATA

OCTOBER 1996 - MARCH 1997

PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
POLK	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	WINTER 1996
1. EAF (%)	49.9	50.0	27.4	65.1	48.7	46.1	47.8
2. POF	0.0	0.0	45.2	0.0	25.0	29.0	16.5
3. EUOF	50.1	50.0	27.4	34.9	26.3	24.9	35.7
4. EUOR	50.1	50.0	50.0	34.9	35.1	35.0	42.7
5. PH	745	720	744	744	672	744	4369
6. SH	418	397	224	546	377	394	2356
7. RSH	0	0	0	0	0	0	0
8. UH	327	323	520	198	295	350	2013
9. POH	0	0	336	0	168	216	720
10. FOH & EFOH	224	216	122	156	106	111	935
11. MOH & EMOH	149	144	82	104	71	74	624
12. OPER BTU (GBTU)	885.920	850.230	483.190	1166.060	813.430	850.800	5049.660
13. NET GEN (MWH)	101516	97382	55366	132448	93078	97327	577117
14. ANOHR (BTU/KWH)	8727	8731	8727	8804	8739	8742	8750
15. NOF (%)	97.1	96.1	96.9	97.0	96.6	96.8	96.0
16. NSC (MW)	250	250	250	250	250	250	250

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