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February 12, 1996

HAND DELIVERED

IN REPLY REFER TO:

Tallahassee

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

ORIGINAL  
FILE COPY

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

Dear Ms. Bayo:

On behalf of Tampa Electric Company, I enclose for filing in the above docket the original and fifteen (15) copies of each of the following corrected sheets to the company's GPIF Summer 1996 projection filing:

Exhibit Sheets 4,5,11,17, 31 and 35  
Testimony, page 15 and Attachment "A"

We would appreciate you circulating these corrected sheets to the recipients of the original filing so that they may be substituted in place of the earlier version. The correction affecting these sheets results from an incorrectly stated projected generation for Big Bend Unit 3.

The company, Staff and the other parties were in agreement on the target heat rate for Big Bend Unit 3 at today's Prehearing Conference. The changes effected by the enclosed filing conform to the company's earlier filing to the agreed upon target heat rate.

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

- ACK
- AFPA
- APP
- CAF
- CMU
- CTR
- EAG  5-Duly
- LEG  1
- LIN  3
- OPC
- RCH
- SEP  1
- OTH

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FEB 12 1996  
FPSC BUREAU OF RECORDS

DOCUMENT NUMBER-DATE  
01650 FEB 12 96  
FPSC-RECORDS/REPORTING

Ms. Blanca S. Bayo  
February 12, 1996  
Page 2

Thank you for your assistance in connection with this matter.

Sincerely,

  
James D. Beasley

JDB/pp  
Enclosures

cc: All Parties of Record (w/encls.)  
Jana Hathorne (w/o encls.)  
George A. Keselowsky (w/o encls.)  
Mary Jo Pennino (w/o encls.)

**TAMPA ELECTRIC COMPANY**  
**GPIF TARGET AND RANGE SUMMARY**  
**APRIL 1996 - SEPTEMBER 1996**

**EQUIVALENT AVAILABILITY**

<u>PLANT/UNIT</u>	<u>WEIGHTING FACTOR (%)</u>	<u>EAF TARGET (%)</u>	<u>EAF MAX. (%)</u>	<u>RANGE MIN. (%)</u>	<u>MAX. FUEL SAVINGS (\$000)</u>	<u>MAX. FUEL LOSS (\$000)</u>
GANNON 5	2.95%	90.4	92.3	86.6	136.6	(261.3)
GANNON 6	5.38%	64.8	67.7	58.9	249.2	(628.6)
BIG BEND 1	10.02%	86.7	89.4	81.4	464.0	(864.7)
BIG BEND 2	10.84%	85.9	88.7	80.3	502.0	(986.5)
BIG BEND 3	10.27%	87.1	89.7	81.9	475.8	(1,094.5)
BIG BEND 4	8.47%	89.7	91.8	85.6	<u>391.4</u>	<u>(720.6)</u>
GPIF SYSTEM	47.93%				2,220.0	(4,556.2)

**AVERAGE NET OPERATING HEAT RATE  
FOR  
GPIF COAL GENERATING UNITS**

<u>PLANT/UNIT</u>	<u>WEIGHTING FACTOR (%)</u>	<u>ANOHR Btu/kwh</u>	<u>TARGET NOF</u>	<u>ANOHR TARGET RANGE</u>		<u>MAX. FUEL SAVINGS (\$000)</u>	<u>MAX. FUEL LOSS (\$000)</u>
				<u>MIN.</u>	<u>MAX.</u>		
GANNON 5	4.50%	10343	78.7	10143	10543	208.3	(208.3)
GANNON 6	8.93%	10443	77.9	10101	10785	413.4	(413.4)
BIG BEND 1	9.24%	10077	91.9	9849	10305	427.9	(427.9)
BIG BEND 2	9.80%	10020	92.5	9777	10263	453.7	(453.7)
BIG BEND 3	10.63%	9756	94.8	9491	10001	492.2	(492.2)
BIG BEND 4	<u>8.97%</u>	10149	87.5	9949	10349	<u>416.2</u>	<u>(416.2)</u>
GPIF SYSTEM	52.07%					2,411.7	(2,411.7)

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

AVAILABILITY

PLANT/UNIT	TARGET WEIGHTING FACTOR	NORMALIZED WEIGHTING FACTOR	TARGET PERIOD APR 94 - SEP 94			ACTUAL PERFORMANCE APR 95 - SEP 95			ACTUAL PERFORMANCE OCT 94 - MAR 95			ACTUAL PERFORMANCE APR 94 - SEP 94			ACTUAL PERFORMANCE OCT 93 - MAR 94			ACTUAL PERFORMANCE APR 93 - SEP 93		
			POF	SEXP	SEUR	POF	SEXP	SEUR	POF	SEXP	SEUR	POF	SEXP	SEUR	POF	SEXP	SEUR	POF	SEXP	SEUR
WED UNID 1	18.82%	30.8	8.0	13.3	13.3	8.3	11.1	11.1	7.7	7.4	8.2	10.4	15.3	14.8	8.0	14.3	14.3	8.0	14.3	14.2
WED UNID 2	18.82%	19.4	8.0	14.1	14.1	8.0	11.4	11.4	29.7	11.9	15.6	8.0	20.0	28.8	8.0	7.3	7.3	3.8	8.3	8.8
WED UNID 3	18.27%	19.2	8.0	12.9	12.9	11.3	15.7	29.9	8.0	12.6	12.6	8.8	9.1	9.1	6.5	4.2	6.4	11.8	12.8	14.5
WED UNID 4	8.47%	17.4	8.0	18.3	18.3	8.0	7.6	7.6	18.8	18.0	12.3	8.0	7.4	7.4	3.1	3.9	6.2	8.0	15.3	15.3
GANNON 3	1.89%	7.3	8.0	9.6	9.6	8.0	8.3	8.3	4.8	3.6	2.8	2.7	11.9	12.1	4.1	3.7	3.9	28.6	18.9	15.5
GANNON 4	1.32%	12.4	27.3	7.9	18.9	3.0	7.3	7.6	3.6	9.8	16.4	8.0	9.3	9.3	29.3	7.9	11.2	14.0	14.3	19.0
QFW SYSTEM WOTD AVG.	47.89%	108.8	4.2	11.8	12.3	3.8	10.7	11.6	11.8	9.9	11.4	6.3	11.6	12.3	7.0	8.3	9.8	7.4	13.1	14.1
QFW SYSTEM WEIGHTED EQUIVALENT AVAILABILITY			84.9			84.3			78.4			81.9			86.7			79.3		
			3 PERIOD AVERAGE SEXP SEUR SEUR			3 PERIOD AVERAGE SEXP														
			7.5 18.7 11.7			81.8														

AVERAGE NET OPERATING HEAT RATE (Btu/kwh)

PLANT/UNIT	TARGET WEIGHTING FACTOR	NORMALIZED WEIGHTING FACTOR	HEAT RATE TARGET	ADJUSTED FROM HEAT RATE APR95 - SEP 95	ADJUSTED FROM HEAT RATE APR94 - SEP 94	ADJUSTED FROM HEAT RATE APR93 - SEP 93
GANNON 3	4.58%	8.6	10043	10064	10085	10284
GANNON 4	8.93%	17.1	10443	10372	10436	10289
WED UNID 1	9.24%	17.7	10077	10109	10097	9953
WED UNID 2	9.86%	18.8	10020	10022	10158	9899
WED UNID 3	18.63%	36.4	9746	9892	9738	9432
WED UNID 4	8.97%	17.3	10149	9971	10074	9794
QFW SYSTEM WEIGHTED AVERAGE HEAT RATE (Btu/kwh)	51.87%	100.0	10097	10023	10077	9882

TAMPA ELECTRIC COMPANY  
 GENERATING PERFORMANCE INCENTIVE POINTS TABLE  
 APRIL 1996 - SEPTEMBER 1996  
 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	475.8	89.7	+10	492.2	9491
+9	428.2	89.4	+9	443.0	9509
+8	380.6	89.2	+8	393.8	9527
+7	333.1	88.9	+7	344.5	9545
+6	285.5	88.7	+6	295.3	9563
+5	237.9	88.4	+5	246.1	9581
+4	190.3	88.1	+4	196.9	9599
+3	142.7	87.9	+3	147.7	9617
+2	95.2	87.6	+2	98.4	9635
+1	47.6	87.4	+1	49.2	9653
				0.0	9671
0	0.0	87.1	0	0.0	9746
				0.0	9821
-1	109.5	86.6	-1	(49.2)	9839
-2	218.9	86.1	-2	(98.4)	9857
-3	328.4	85.5	-3	(147.7)	9875
-4	437.8	85.0	-4	(196.9)	9893
-5	547.3	84.5	-5	(246.1)	9911
-6	656.7	84.0	-6	(295.3)	9929
-7	766.2	83.5	-7	(344.5)	9947
-8	875.6	82.9	-8	(393.8)	9965
-9	985.1	82.4	-9	(443.0)	9983
-10	1,094.5	81.9	-10	(492.2)	10001
	Weighting Factor =	10.27%		Weighting Factor =	10.63%

TAMPA ELECTRIC COMPANY  
ESTIMATED UNIT PERFORMANCE DATA  
APRIL 1996 - SEPTEMBER 1996

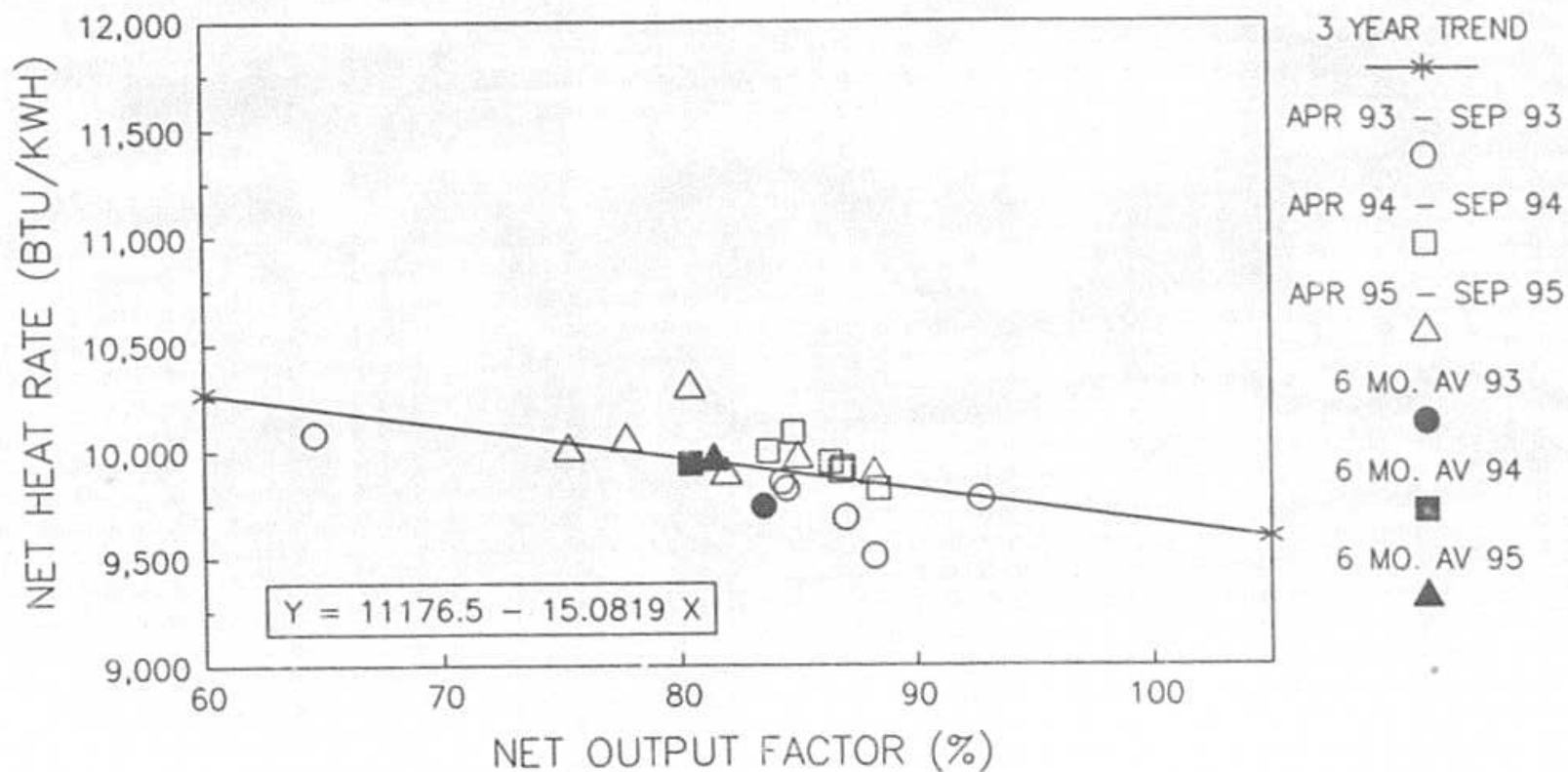
PLANT/UNIT	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
	APR 96	MAY 96	JUN 96	JUL 96	AUG 96	SEP 96	SUMMER 1996
BIG BEND 3 GPIF							
1. EAF (%)	87.1	87.1	87.1	87.1	87.1	87.1	87.1
2. POF	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. EUOF	12.9	12.9	12.9	12.9	12.9	12.9	12.9
4. EUOR	12.9	12.9	12.9	12.9	12.9	12.9	12.9
5. PH	719	744	720	744	744	720	4391
6. SH	655	677	655	677	677	655	3998
7. RSH	0	0	0	0	0	0	0
8. UH	64	67	65	67	67	65	395
9. POH	0	0	0	0	0	0	0
10. FOH & EFOH	64	66	64	66	66	64	390
11. MOH & EMOH	29	30	29	30	30	29	177
12. OPER BTU (GBTU)	2495.816	2598.814	2611.338	2743.630	2758.957	2661.506	15870.061
13. NET GEN (MWH)	254294	265055	268066	282453	294341	274125	1628355
14. ANOHR (BTU/KWH)	9815	9805	9741	9714	9703	9709	9746
15. NOF (%)	90.3	91.0	95.2	97.0	97.7	97.3	94.8
16. NSC (MW)	430	430	430	430	430	430	430
17. ANOHR EQUATION	ANOHR = NOF(-15.0819) + 11176.5						

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ORDER NO.:

# TAMPA ELECTRIC COMPANY

## HEAT RATE VS. NET OUTPUT FACTOR

### BIG BEND 3, SUMMER 1996



TARGET NET HEAT RATE: 9746  
 TARGET NET OUTPUT FACTOR: 94.8

TAMPA ELECTRIC COMPANY  
PERCENT GENERATION BY UNIT  
APRIL 1996 - SEPTEMBER 1996

STATION	UNIT	NET OUTPUT MWH	% OF PROJECTED OUTPUT	% CUMULATIVE PROJECTED OUTPUT
BIG BEND	3	1,628,355	17.89%	17.89%
BIG BEND	4	1,577,228	17.33%	35.22%
BIG BEND	1	1,550,512	17.03%	52.25%
BIG BEND	2	1,540,448	16.92%	69.18%
GANNON	6	857,761	9.42%	78.60%
GANNON	5	746,221	8.20%	86.80%
GANNON	4	444,182	4.88%	91.68%
GANNON	3	265,030	2.91%	94.59%
GANNON	1	222,710	2.45%	97.04%
GANNON	2	178,821	1.96%	99.00%
HOOKE'S POINT	5	38,212	0.42%	99.42%
HOOKE'S POINT	4	8,032	0.09%	99.51%
HOOKE'S POINT	1	7,092	0.08%	99.59%
HOOKE'S POINT	3	6,887	0.08%	99.66%
HOOKE'S POINT	2	6,428	0.07%	99.73%
PHILLIPS	1	6,065	0.07%	99.80%
PHILLIPS	2	5,900	0.06%	99.86%
BIG BEND CT	3	5,830	0.06%	99.93%
BIG BEND CT	2	4,665	0.05%	99.98%
BIG BEND CT	1	934	0.01%	99.99%
GANNON CT	1	892	0.01%	100.00%

TOTAL GENERATION

9,102,201

100.00%

GENERATION BY COAL UNITS: 9,011,266 MWH

% GENERATION BY COAL UNITS: 99.00%

GENERATION BY OIL UNITS: 90,935 MWH

% GENERATION BY OIL UNITS: 1.00%

GENERATION BY GPIF UNITS: 7,900,523 MWH

% GENERATION BY GPIF UNITS: 86.80%



1 was applied to produce a band of potential improvement and  
2 degradation. Both the curve fit and the standard error of the  
3 estimate were performed by computer program for each station.  
4 These curves are also used in post period adjustments to actual  
5 heat rates to account for unanticipated changes in unit dispatch.  
6

7 Q. Can you summarize your heat rate projection for the summer  
8 1996 period?  
9

10 A. Yes. The heat rate target for Big Bend Unit 1 is 10,077  
11 Btu/Net kwh. The range about this value, to allow for  
12 potential improvement or degradation, is  $\pm 228$  Btu/Net kwh.  
13 The heat rate target for Big Bend Unit 2 is 10,020 Btu/Net  
14 kwh with a range of  $\pm 243$  Btu/Net kwh. The heat rate target  
15 for Big Bend Unit 3 is 9,746 Btu/Net kwh, with a range of  
16  $\pm 255$  Btu/Net kwh. The heat rate target for Big Bend Unit  
17 4 is 10,149 Btu/Net kwh with a range of  $\pm 200$  Btu/Net kwh.  
18 The heat rate target for Gannon Unit 5 is 10,343 Btu/Net  
19 kwh with a range of  $\pm 200$  Btu/Net kwh. The heat rate target  
20 for Gannon Unit 6 is 10,443 Btu/Net kwh with a range of  
21  $\pm 342$  Btu/Net kwh. A zone of tolerance of  $\pm 75$  Btu/Net kwh  
22 is included within the range for each target. This is  
23 shown on page 4, and pages 7 through 12 of my exhibit.  
24  
25

ATTACHMENT "A"  
January 22, 1996

TAMPA ELECTRIC COMPANY  
GPIF TARGETS  
April 1, 1996 - September 30, 1996

Unit	Availability			Heat Rate
	EAF	POF	BUOF	
Gannon 5	90.4	0	9.6 <sup>1/</sup>	10,343 <sup>1/</sup>
Gannon 6	64.8	27.3	7.9 <sup>2/</sup>	10,443 <sup>2/</sup>
Big Bend 1	86.7	0	13.3 <sup>3/</sup>	10,077 <sup>3/</sup>
Big Bend 2	85.9	0	14.1 <sup>4/</sup>	10,020 <sup>4/</sup>
Big Bend 3	87.1	0	12.9 <sup>5/</sup>	9,746 <sup>5/</sup>
Big Bend 4	89.7	0	10.3 <sup>6/</sup>	10,149 <sup>6/</sup>

<sup>1/</sup> Original Sheet 6.401.96E, Pg. 13

<sup>2/</sup> Original Sheet 6.401.96E, Pg. 14

<sup>3/</sup> Original Sheet 6.401.96E, Pg. 15

<sup>4/</sup> Original Sheet 6.401.96E, Pg. 16

<sup>5/</sup> Original Sheet 6.401.96E, Pg. 17

<sup>6/</sup> Original Sheet 6.401.96E, Pg. 18