

AUSLEY & McMULLEN

ATTORNEYS AND COUNSELORS AT LAW

227 SOUTH CALHOUN STREET
P.O. BOX 391 (ZIP 32302)
TALLAHASSEE, FLORIDA 32301
(850) 224-9115 FAX (850) 222-7560

April 14, 2000

HAND DELIVERED

ORIGINAL

RECORDS AND REPORTING

00 APR 14 PM 1:43

RECEIVED - FPSC

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. 000001-EI

Dear Ms. Bayo:

Enclosed for filing in the above proceeding on behalf of Tampa Electric Company are the original and ten (10) copies of two revised pages of Tampa Electric witness Brian S. Buckley's true-up testimony (pages 4 and 5) along with revised pages 4-8 of 29, 14 of 29, 19 of 29, 21 of 29, 23 of 29, and 28 of 29, all from witness Buckley's true-up exhibit. This revised filing corrects 0.6 hours that were mislabeled as reserve shutdown hours to properly reflect that time as maintenance outage hours for Gannon Unit 5. Also, 96 planned outage hours were inadvertently omitted from the original listing for Gannon Unit 6. Neither of these changes affects either unit's GPIF points or the total penalty amount.

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

Handwritten initials

JDB/pp
Enclosures

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

RECEIVED & FILED

FPSC-BUREAU OF RECORDS

DOCUMENT NUMBER-DATE

04575 APR 14 8

FPSC-RECORDS/REPORTING

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of the foregoing revised Testimony and Exhibits, filed on behalf of Tampa Electric company, has been furnished by U. S. Mail or hand delivery (*) on this 14th day of April 2000 to the following:

Mr. Wm. Cochran Keating, IV*
Staff Counsel
Division of Legal Services
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0863

Mr. James A. McGee
Senior Counsel
Florida Power Corporation
Post Office Box 14042
St. Petersburg, FL 33733

Mr. Joseph A. McGlothlin
Ms. Vicki Gordon Kaufman
McWhirter, Reeves, McGlothlin, Davidson,
Decker, Kaufman, Arnold & Steen, P.A.
117 S. Gadsden Street
Tallahassee, FL 32301

Mr. Norman Horton
Messer Caparello & Self
P. O. Box 1876
Tallahassee, FL 32302

Mr. John W. McWhirter
McWhirter, Reeves, McGlothlin, Davidson,
Decker, Kaufman, Arnold & Steen, P.A.
Post Office Box 3350
Tampa, FL 33601

Ms. Susan Ritenour
Gulf Power Company
One Energy Place
Pensacola, FL 32520

Mr. Matthew M. Childs
Steel Hector & Davis
Suite 601
215 South Monroe Street
Tallahassee, FL 32301

Mr. Jeffrey A. Stone
Beggs & Lane
Post Office Box 12950
Pensacola, FL 32576

Mr. Kenneth A. Hoffman
Rutledge, Ecenia, Undewood,
Purnell & Hoffman
Post Office Box 551
Tallahassee, FL 32302-0551

Mr. John Roger Howe
Deputy Public Counsel
Office of Public Counsel
111 W. Madison Street, Suite 812
Tallahassee, FL 32399-1400



ATTORNEY

ORIGINAL

TAMPA ELECTRIC COMPANY
DOCKET NO. 000001-EI
SUBMITTED FOR FILING: 04/03/00
(TRUE-UP)
REVISED: 04/14/00

TAMPA ELECTRIC COMPANY
BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION
DOCKET NO. 000001-EI

REVISED PAGES

**TESTIMONY
AND EXHIBIT OF
BRIAN S. BUCKLEY**

DOCUMENT NUMBER-DATE

04575 APR 14 8

FPSC-RECORDS/REPORTING

1 adjustment is shown on page 6 of my exhibit. The necessary
2 adjustments as prescribed in the GPIF Manual are further
3 defined by a letter dated October 23, 1981, from Mr. J.H.
4 Hoffsis of the Commission's Staff. The adjustments for
5 each unit are as follows:

6
7 Gannon Unit No. 5

8 On this unit, 504 planned outage hours were originally
9 scheduled for 1999. To produce the greatest benefit
10 from the repair time required on the unit as a result of
11 the Gannon 6 accident, planned outage work was moved
12 forward from the Fall and accomplished in addition to work
13 planned for the Spring. This required 790.3 planned
14 outage hours. Consequently, the actual equivalent
15 availability of 69.4% is adjusted to 71.9% as shown on
16 page 7 of my exhibits.

17
18 Gannon Unit No. 6

19 On this unit, 1176 planned outage hours were originally
20 scheduled for 1999. Due to an accident which occurred at
21 the beginning of the planned outage, the outage was
22 extended and additional necessary work was accomplished
23 in conjunction with repairs attributed to the accident.
24 Outage activities required 2030.2 planned outage hours.
25 Consequently, the actual equivalent availability of 56.2%

1 is adjusted to 63.4%, as shown on page 8 of my exhibit.

2

3 Big Bend Unit No. 1

4 On this unit, 336 planned outage hours were originally
5 scheduled for 1999. Actual outage activities required
6 172.6 planned outage hours. Consequently, the actual
7 equivalent availability of 78.9% is adjusted to 77.4%
8 as shown on page 9 of my exhibit.

9

10 Big Bend Unit No. 2

11 On this unit, 336 planned outage hours were originally
12 scheduled for 1999. Actual outage activities required
13 306.1 planned outage hours. Consequently, the actual
14 equivalent availability of 81.4% is adjusted to 81.1% as
15 shown on page 10 of my exhibit.

16

17 Big Bend Unit No. 3

18 On this unit, 1008 planned outage hours were originally
19 scheduled for 1999. Actual outage activities required
20 1384.2 planned outage hours. Consequently, the actual
21 equivalent availability of 65.2% is adjusted to 68.5%
22 as shown on page 11 of my exhibit.

23

24

25

**TAMPA ELECTRIC COMPANY
CALCULATION OF SYSTEM GPIF POINTS
JANUARY 1999 - DECEMBER 1999
ACTUAL**

<u>PLANT/UNIT</u>	<u>12 MO ADJ ACTUAL PERFORMANCE</u>	<u>WEIGHTING FACTOR %</u>	<u>UNIT POINTS</u>	<u>WEIGHTED UNIT POINTS</u>
GANNON 5	71.9% EAF	4.54%	-1.910	-0.087
GANNON 6	63.4% EAF	6.83%	-10.000	-0.683
BIG BEND 1	77.4% EAF	7.19%	-3.542	-0.255
BIG BEND 2	81.1% EAF	6.40%	-1.834	-0.117
BIG BEND 3	68.5% EAF	8.29%	-5.274	-0.437
BIG BEND 4	79.1% EAF	4.32%	-10.000	-0.432
GANNON 5	10670 ANOHR	8.84%	-10.000	-0.884
GANNON 6	10846 ANOHR	9.79%	-10.000	-0.979
BIG BEND 1	10083 ANOHR	10.68%	2.590	0.277
BIG BEND 2	9983 ANOHR	11.12%	6.563	0.730
BIG BEND 3	9826 ANOHR	12.22%	2.917	0.356
BIG BEND 4	10014 ANOHR	9.78%	-0.060	-0.006
		100.00%		-2.517

GPIF REWARD	(\$1,151,236)
--------------------	----------------------

TAMPA ELECTRIC COMPANY
 GPIF TARGET AND RANGE SUMMARY
 JANUARY 1999 - DECEMBER 1999

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>	<u>EAF ADJUSTED ACTUAL %</u>	<u>ACTUAL FUEL SAVINGS/ LOSS (\$000)</u>
GANNON 5	4.54%	73.6	78.0	64.7	619.6	(1,412.2)	71.9%	(132.5)
GANNON 6	6.83%	71.5	75.2	64.2	932.4	(1,760.3)	63.4%	(1,760.3)
BIG BEND 1	7.19%	79.8	83.3	72.9	980.7	(2,247.2)	77.4%	491.7
BIG BEND 2	6.40%	82.2	85.2	76.2	873.4	(1,598.3)	81.1%	(238.1)
BIG BEND 3	8.29%	72.5	76.3	64.9	1,130.7	(2,249.4)	68.5%	(1,411.3)
BIG BEND 4	<u>4.32%</u>	85.0	87.1	80.7	<u>589.0</u>	<u>(1,374.7)</u>	79.1%	(1,142.4)
GPIF SYSTEM	37.57%				5,125.8	(10,642.1)		

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>ACTUAL ADJUSTED ANOHR</u>	<u>ACTUAL FUEL SAVINGS/ LOSS (\$000)</u>
				<u>MIN.</u>	<u>MAX.</u>				
GANNON 5	8.84%	10150	90.7	9631	10669	1,207.0	(1,207.0)	10670	0.0
GANNON 6	9.79%	10401	90.3	10021	10781	1,336.0	(1,336.0)	10846	(168.5)
BIG BEND 1	10.68%	10230	76.8	9877	10583	1,457.0	(1,457.0)	10083	375.5
BIG BEND 2	11.12%	10247	75.1	9884	10610	1,517.0	(1,517.0)	9983	1,070.8
BIG BEND 3	12.22%	9992	84.5	9605	10379	1,668.0	(1,668.0)	9826	(287.4)
BIG BEND 4	<u>9.78%</u>	9938	94.7	9695	10181	<u>1,336.0</u>	<u>(1,336.0)</u>	10014	0.0
GPIF SYSTEM	62.43%					8,521.0	(8,521.0)		

**TAMPA ELECTRIC COMPANY
ACTUAL UNIT PERFORMANCE DATA
JANUARY 1999 - DECEMBER 1999**

<u>PLANT / UNIT</u>	<u>ACTUAL EAF %</u>	<u>ADJUSTMENTS (1) EAF %</u>	<u>EAF ADJUSTED ACTUAL %</u>
GANNON 5	69.4	2.5	71.9
GANNON 6	56.2	7.2	63.4
BIG BEND 1	78.9	-1.5	77.4
BIG BEND 2	81.4	-0.3	81.1
BIG BEND 3	65.2	3.3	68.5
BIG BEND 4	73.0	6.1	79.1

<u>PLANT / UNIT</u>	<u>ACTUAL ANOHR Btu/kwh</u>	<u>ADJUSTMENTS (2) TO ANOHR Btu/kwh</u>	<u>ANOHR ADJUSTED ACTUAL Btu/kwh</u>
GANNON 5	11029	-359	10670
GANNON 6	10971	-125	10846
BIG BEND 1	10236	-153	10083
BIG BEND 2	10072	-89	9983
BIG BEND 3	10006	-180	9826
BIG BEND 4	10211	-197	10014

(1) Documentation of adjustments to Actual EAF on pages 7 - 12

(2) Documentation of adjustments to Actual ANOHR on pages 13 - 18

TAMPA ELECTRIC COMPANY
 ADJUSTMENTS TO PERFORMANCE
 GANNON UNIT NO. 5
 JANUARY 1999 - DECEMBER 1999

WEIGHTING FACTOR = 4.54%

	<u>12 MO TARGET</u>	<u>12 MO. ACTUAL PERFORMANCE</u>	<u>ADJUSTED ACTUAL PERFORMANCE</u>
P.H.	8760.0	8760.0	8760.0
E.A.F.	73.6	69.4	71.9
P.O.H.	504.0	790.3	504.0
F.O.H. + E.F.O.H	1596.0	1271.9	1317.6
M.O.H. + E.M.O.H	212.0	619.6	641.9
P.O.F.	5.8	9.0	5.8
E.F.O.F.	18.2	14.5	15.0
E.M.O.F.	2.4	7.1	7.3

-1.910 E. A. POINTS

ADJUSTMENTS TO E.A.F.

$$\frac{\text{P.H.} - \text{TGT POH}}{\text{P.H.} - \text{ACT POH}} \times (\text{FOH} + \text{EFOH} + \text{MOH} + \text{EMOH}) = \text{ADJUSTED EUOH}$$

$$\frac{8760 - 504}{8760 - 790} \times (573.2 + 698.7 + 494.7 + 124.9) = 1959.4$$

$$\frac{504 + 1959.4}{8760} \times 100 = 28.1$$

$$100.0 - 28.1 = 71.9$$

- PH = PERIOD HOURS
- EAF = EQUIVALENT AVAILABILITY FACTOR
- POH = PLANNED OUTAGE HOURS
- FOH = FORCED OUTAGE HOURS
- MOH = MAINTENANCE OUTAGE HOURS
- POF = PLANNED OUTAGE FACTOR
- EFOF = EQUIVALENT FORCED OUTAGE FACTOR
- EMOF = EQUIVALENT MAINTENANCE OUTAGE FACTOR

TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO PERFORMANCE
GANNON UNIT NO. 6
JANUARY 1999 - DECEMBER 1999

WEIGHTING FACTOR = 6.83%

	<u>12 MO TARGET</u>	<u>12 MO ACTUAL PERFORMANCE</u>	<u>ADJUSTED ACTUAL PERFORMANCE</u>
P.H.	8760.0	8760.0	8760.0
E.A.F.	71.5	56.2	63.4
P.O.H.	1176.0	2030.2	1176.0
F.O.H. + E.F.O.H	1001.0	1201.1	1353.6
M.O.H. + E.M.O.H	318.0	603.4	680.0
P.O.F.	13.4	23.2	13.4
E.F.O.F.	11.4	13.7	15.5
E.M.O.F.	3.6	6.9	7.8

-10.000 E. A. POINTS

ADJUSTMENTS TO E.A.F.

$$\frac{\text{P.H.} - \text{TGT POH}}{\text{P.H.} - \text{ACT POH}} \times (\text{FOH} + \text{EFOH} + \text{MOH} + \text{EMOH}) = \text{ADJUSTED EUOH}$$

$$\frac{8760 - 1176}{8760 - 2030} \times (849.8 + 351.3 + 474.2 + 129.2) = 2033.5$$

$$\frac{1176 + 2034}{8760} \times 100 = 36.6$$

$$100.0 - 36.6 = 63.4$$

PH = PERIOD HOURS
EAF = EQUIVALENT AVAILABILITY FACTOR
POH = PLANNED OUTAGE HOURS
FOH = FORCED OUTAGE HOURS
MOH = MAINTENANCE OUTAGE HOURS
EUOH = EQUIVALENT UNPLANNED OUTAGE HOURS
POF = PLANNED OUTAGE FACTOR
EFOF = EQUIVALENT FORCED OUTAGE FACTOR

TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO HEAT RATE
GANNON UNIT NO. 6
HEAT RATE DATA
JANUARY 1999 - DECEMBER 1999

WEIGHTING FACTOR = 9.79%

	<u>12 MO. TARGET</u>	<u>12 MO. ACTUAL PERFORMANCE</u>
ANOHR (Btu/kwh)	10401	10971
STA. NET GEN. (GWH)	2006.5	1500.4
OPER. Btu (10 ⁹ btu)	20868.624	16461.468
NET OUTPUT FACTOR	90.3	74.2

-10.000 HEAT RATE POINTS

ADJUSTMENTS TO ACTUAL HEAT RATE FOR COMPARISON

CURRENT EQUATION $NOF(-7.7732) + 11102.5 = ANOHR$

74.2	(-7.7732)	+	11102.5	=	10526
10971	-		10526	=	445
10401	+		445	=	10846

ANOHR = AVERAGE NET OPERATING HEAT RATE
NOF = NET OPERATING FACTOR

TAMPA ELECTRIC COMPANY

GPIF PLANNED OUTAGE SCHEDULE - ACTUAL

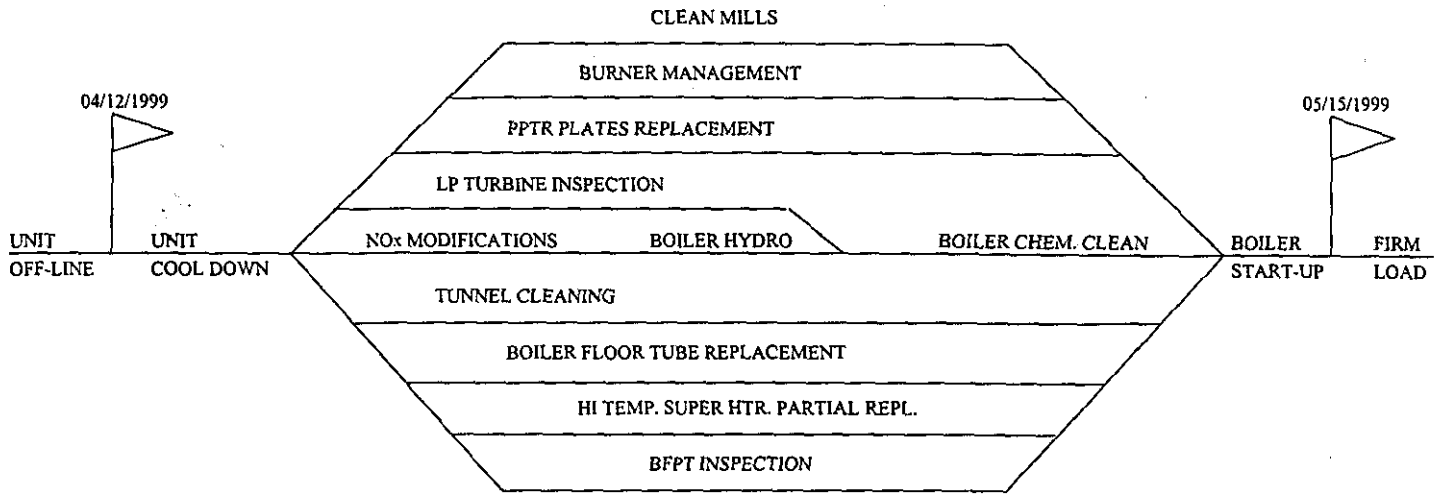
JANUARY 1999 - DECEMBER 1999

<u>STATION/UNIT</u>	<u>PLANNED OUTAGE DATES</u>	<u>OUTAGE REASON</u>
** BIG BEND 1	OCT 08 - OCT 15	SCRUBBER TIE IN
** BIG BEND 2	OCT 18 - OCT 30	SCRUBBER TIE IN
BIG BEND 3	FEB 10 - APR 05	NOx MODIFICATIONS LP TURBINE INSP 'A' BULL GEAR REPL BOILER FLOOR TUBES HI TEMP SUPERHEAT-PARTL PPTR PLATES BURNER MANAGEMENT BFPT INSPECTION BOILER HYDRO & CHEM CLEAN MILL CLEANING
BIG BEND 4	OCT 30 - DEC 18	RH FIRST PENDANT ASSY. HP TURBINE INSP LP TURBINE BORESonic INSP GENERATOR INSP FGD INLET DUCT TURBINE VALVE INSP & REPAIR BOILER CIRC. PUMP OVERHAUL BFPT INSPECTION BOILER HYDRO & CHEM CLEAN BOTTOM ASH HOPPERS
GANNON 5	APR 12 - MAY 15	NOx MODIFICATIONS BOILER HYDRO & CHEM CLEAN LP TURBINE INSP PPTR PLATES BURNER MANAGEMENT MILL CLEANING TUNNEL CLEANING BOILER FLOOR TUBES HI TEMP SUPERHEAT-PARTL BFPT INSPECTION
GANNON 6	MAR 26 - JUN 19	CLASSIFIER MODIFICATIONS BOILER HYDRO & CHEM CLEAN HP TURBINE BORESonic INSP PRECIPITATOR OUTLET DUCT BURNER MANAGEMENT PULV. SHELL, HEAD, & THROAT REPL. NOx MODIFICATIONS GENERATOR INSP REPLACE GAS DUCT TUNNEL CLEANING

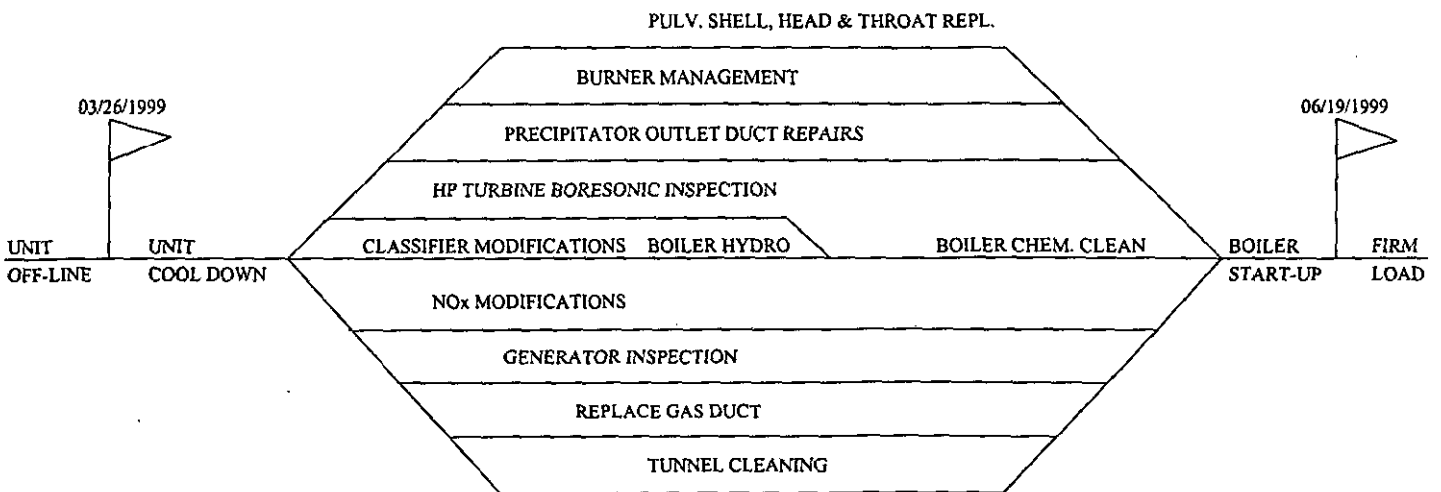
Milestone or Critical Path Charts of actual schedule are included on pages 20 & 21.

* Start / End dates outside of GPIF period.

** Outage is less than FOUR weeks in duration and a CPM was not included for this unit.



TAMPA ELECTRIC COMPANY
 GANNON UNIT NUMBER 5
 PLANNED OUTAGE 1999
 ACTUAL CPM
 03/23/2000



TAMPA ELECTRIC COMPANY
 GANNON UNIT NUMBER 6
 PLANNED OUTAGE 1999
 ACTUAL CPM
 03/23/2000

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

JANUARY 1999 - DECEMBER 1999

AVAILABILITY

PLANT/UNIT	TARGET WEIGHTING FACTOR	NORMALIZED WEIGHTING FACTOR	TARGET PERIOD JAN 99 - DEC 99			ACTUAL PERFORMANCE JAN 99 - DEC 99		
			POF	EUOF	EUOR	POF	EUOF	EUOR
BIG BEND 1	7.19%	19.1	3.8	16.4	17.0	2.0	19.2	19.6
BIG BEND 2	6.40%	17.0	3.8	14.0	14.6	3.5	15.1	15.7
BIG BEND 3	8.29%	22.1	11.5	16.0	18.1	15.8	19.0	22.6
BIG BEND 4	4.32%	11.5	5.8	9.2	9.8	13.0	14.0	16.0
GANNON 5	4.54%	12.1	5.8	20.6	21.9	9.0	21.6	23.7
GANNON 6	6.83%	18.2	13.4	15.1	17.4	23.2	20.6	26.8
	37.57%	100.0						
GPIF SYSTEM WEIGHTED AVERAGE			7.7	15.3	16.7	11.3	18.4	21.0
GPIF SYSTEM WEIGHTED EQUIVALENT AVAILABILITY				76.9			70.3	
			3 PERIOD AVERAGE			3 PERIOD AVERAGE		
			POF	EUOF	EUOR	EAF		
			8.9	16.8	18.5	74.3		

AVERAGE NET OPERATING HEAT RATE (Btu/kwh)

PLANT/UNIT	TARGET WEIGHTING FACTOR	NORMALIZED WEIGHTING FACTOR	HEAT RATE	ADJUSTED
			TARGET	ACTUAL HEAT RATE JAN 99 - DEC 99
GANNON 5	8.84%	14.2	10150	10670
GANNON 6	9.79%	15.7	10401	10846
BIG BEND 1	10.68%	17.1	10230	10083
BIG BEND 2	11.12%	17.8	10247	9983
BIG BEND 3	12.22%	19.6	9992	9826
BIG BEND 4	9.78%	15.7	9938	10014
	62.43%	100.0		
GPIF SYSTEM WEIGHTED AVERAGE HEAT RATE (Btu/kwh)			10156	10207