



BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 110001-EI
IN RE: FUEL & PURCHASED POWER COST RECOVERY
AND
CAPACITY COST RECOVERY

2010 GENERATING PERFORMANCE INCENTIVE FACTOR
TRUE-UP

TESTIMONY AND EXHIBIT

BRIAN S. BUCKLEY

FILED MARCH 15, 2011

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FPSC-COMMISSION CLERK

1 **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

2 **PREPARED DIRECT TESTIMONY**

3 **OF**

4 **BRIAN S. BUCKLEY**

5
6 **Q.** Please state your name, business address, occupation and
7 employer.

8
9 **A.** My name is Brian S. Buckley. My business address is 702
10 North Franklin Street, Tampa, Florida 33602. I am employed
11 by Tampa Electric Company ("Tampa Electric" or "company") in
12 the position of Manager, Operations Planning.

13
14 **Q.** Please provide a brief outline of your educational
15 background and business experience.

16
17 **A.** I received a Bachelor of Science degree in Mechanical
18 Engineering in 1997 from the Georgia Institute of
19 Technology and a Master of Business Administration from the
20 University of South Florida in 2003. I began my career
21 with Tampa Electric in 1999 as an Engineer in Plant
22 Technical Services. I have held a number of different
23 engineering positions at Tampa Electric's power generating
24 stations including Operations Engineer at Gannon Station,
25 Instrumentation and Controls Engineer at Big Bend Station,

1 and Senior Engineer in Operations Planning. In August
2 2008, I was promoted to Manager, Operations Planning, where
3 I am currently responsible for unit commitment, unit
4 performance analysis and reporting of generation
5 statistics.

6
7 **Q.** What is the purpose of your testimony?

8
9 **A.** The purpose of my testimony is to present Tampa Electric's
10 actual performance results from unit equivalent availability
11 and station heat rate used to determine the Generating
12 Performance Incentive Factor ("GPIF") for the period January
13 2010 through December 2010. I will also compare these
14 results to the targets established prior to the beginning of
15 the period.

16
17 **Q.** Have you prepared an exhibit to support your testimony?

18
19 **A.** Yes, I prepared Exhibit No. _____ (BSB-1), consisting of two
20 documents. Document No. 1, entitled "Tampa Electric Company,
21 Generating Performance Incentive Factor, January 2010 -
22 December 2010 True-up" is consistent with the GPIF
23 Implementation Manual previously approved by the Commission.
24 Document No. 2 provides the company's Actual Unit
25 Performance Data for the 2010 period.

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

3
4 **A.** Four of the company's coal-fired units, one integrated
5 gasification combined cycle unit and two natural gas
6 combined cycle units are included. These are Big Bend Units
7 1 through 4, Polk Unit 1 and Bayside Units 1 and 2,
8 respectively.

9
10 **Q.** Have you calculated the results of Tampa Electric's
11 performance under the GPIF during the January 2010 through
12 December 2010 period?

13
14 **A.** Yes, I have. This is calculated in Document No. 1, page 4
15 of 32. Based upon 2.722 Generating Performance Incentive
16 Points ("GPIP"), the result is a reward amount of \$2,054,696
17 for the period.

18
19 **Q.** Please proceed with your review of the actual results for
20 the January 2010 through December 2010 period.

21
22 **A.** In Document No. 1, page 3 of 32, the actual average common
23 equity for the period is shown on line 14 as \$1,875,266,538.
24 This produces the maximum penalty or reward amount of
25 \$7,547,230 as shown on line 21.

1 Q. Will you please explain how you arrived at the actual
2 equivalent availability results for the seven units included
3 within the GPIF?
4

5 A. Yes. Operating data for each of the units is filed monthly
6 with the Commission on the Actual Unit Performance Data
7 form. Additionally, outage information is reported to the
8 Commission on a monthly basis. A summary of this data for
9 the 12 months provides the basis for the GPIF.
10

11 Q. Are the actual equivalent availability results shown on
12 Document No. 1, page 6 of 32, directly applicable to the
13 GPIF table?
14

15 A. No. Adjustments to actual equivalent availability may be
16 required as noted in section 4.3.3 of the GPIF Manual. The
17 actual equivalent availability including the required
18 adjustment is shown in Document No. 1, page 6 of 32. The
19 necessary adjustments as prescribed in the GPIF Manual are
20 further defined by a letter dated October 23, 1981, from Mr.
21 J. H. Hoffsis of the Commission's Staff. The adjustments
22 for each unit are as follows:
23

24 **Big Bend Unit No. 1**

25 On this unit, 2351.0 planned outage hours were originally

1 scheduled for 2010. Actual outage activities required
2 2143.4 planned outage hours. Consequently, the actual
3 equivalent availability of 60.5 percent is adjusted to 58.6
4 percent as shown on Document No. 1, page 7 of 32.

5
6 **Big Bend Unit No. 2**

7 On this unit, 384.0 planned outage hours were originally
8 scheduled for 2010. Actual outage activities required 479.5
9 planned outage hours. Consequently, the actual equivalent
10 availability of 68.4 percent is adjusted to 69.2 percent as
11 shown on Document No. 1, page 8 of 32.

12
13 **Big Bend Unit No. 3**

14 On this unit, 744.0 planned outage hours were originally
15 scheduled for 2010. Actual outage activities required 732.3
16 planned outage hours. Consequently, the actual equivalent
17 availability of 79.8 percent is adjusted to 79.7 percent as
18 shown on Document No. 1, page 9 of 32.

19
20 **Big Bend Unit No. 4**

21 On this unit, 1344.0 planned outage hours were originally
22 scheduled for 2010. Actual outage activities required
23 1693.2 planned outage hours. Consequently, the actual
24 equivalent availability of 66.5 percent is adjusted to 69.8
25 percent as shown on Document No. 1, page 10 of 32.

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Polk Unit No. 1

On this unit, 336.0 planned outage hours were originally scheduled for 2010. Actual outage activities required 419.2 planned outage hours. Consequently, the actual equivalent availability of 90.0 percent is adjusted to 91.0 percent, as shown on Document No. 1, page 11 of 32.

Bayside Unit No. 1

On this unit, 336.0 planned outage hours were originally scheduled for 2010. Actual outage activities required 439.1 planned outage hours. Consequently, the actual equivalent availability of 93.9 percent is adjusted to 95.1 percent, as shown on Document No. 1, page 12 of 32.

Bayside Unit No. 2

On this unit, 336.0 planned outage hours were originally scheduled for 2010. Actual outage activities required 760.7 planned outage hours. Consequently, the actual equivalent availability of 89.5 percent is adjusted to 94.3 percent, as shown on Document No. 1, page 13 of 32.

Q. How did you arrive at the applicable equivalent availability points for each unit?

A. The final adjusted equivalent availabilities for each unit

1 are shown on Document No. 1, page 6 of 32. This number is
2 entered into the respective GPIF table for each particular
3 unit, shown on pages 7 of 32 through 13 of 32. Page 4 of 32
4 summarizes the weighted equivalent availability points to be
5 awarded or penalized.

6
7 **Q.** Will you please explain the heat rate results relative to
8 the GPIF?

9
10 **A.** The actual heat rate and adjusted actual heat rate for Tampa
11 Electric's seven GPIF units are shown on Document No. 1,
12 page 6 of 32. The adjustment was developed based on the
13 guidelines of section 4.3.16 of the GPIF Manual. This
14 procedure is further defined by a letter dated October 23,
15 1981, from Mr. J. H. Hoffsis of the FPSC Staff. The final
16 adjusted actual heat rates are also shown on page 5 of 32.
17 The heat rate value is entered into the respective GPIF
18 table for the particular unit, shown on pages 14 through 20
19 of 32. Page 4 of 32 summarizes the weighted heat rate
20 points to be awarded or penalized.

21
22 **Q.** What is the overall GPIF for Tampa Electric for the January
23 2010 through December 2010 period?

24
25 **A.** This is shown on Document No. 1, page 2 of 32. Essentially,

1 the weighting factors shown on page 4 of 32, plus the
2 equivalent availability points and the heat rate points
3 shown on page 4 of 32, are substituted within the equation
4 found on page 32 of 32. The resulting value, 2.722, is then
5 entered into the GPIF table on page 2 of 32. Using linear
6 interpolation, the reward amount is \$2,054,696.
7

8 **Q.** Does this conclude your testimony?
9

10 **A.** Yes, it does.
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GENERATING PERFORMANCE INCENTIVE FACTOR

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EXHIBIT NO. ____ (BSB-1)
TAMPA ELECTRIC COMPANY
DOCKET NO. 110001-EI
GPIF 2010 FINAL TRUE-UP
DOCUMENT NO. 1

EXHIBIT TO THE TESTIMONY OF
BRIAN S. BUCKLEY

DOCKET NO. 110001-EI

TAMPA ELECTRIC COMPANY
2010 GENERATING PERFORMANCE INCENTIVE FACTOR
TRUE-UP

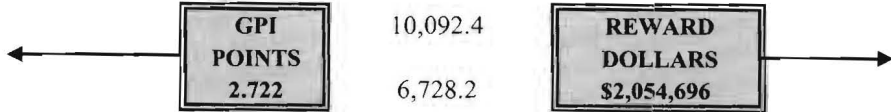
DOCUMENT NO. 1
GPIF SCHEDULES

**TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE FACTOR
JANUARY 2010 - DECEMBER 2010
TRUE-UP
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**TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE FACTOR
REWARD / PENALTY TABLE - ACTUAL
JANUARY 2010 - DECEMBER 2010**

GENERATING PERFORMANCE INCENTIVE POINTS (GPIP)	FUEL SAVINGS / (LOSS) (\$000)	GENERATING PERFORMANCE INCENTIVE FACTOR (\$000)
+10	33,641.2	7,547.2
+9	30,277.1	6,792.5
+8	26,913.0	6,037.8
+7	23,548.9	5,283.1
+6	20,184.7	4,528.3
+5	16,820.6	3,773.6
+4	13,456.5	3,018.9
+3	10,092.4	2,264.2
+2	6,728.2	1,509.4
+1	3,364.1	754.7
0	0.0	0.0
-1	(5,054.0)	(754.7)
-2	(10,108.0)	(1,509.4)
-3	(15,161.9)	(2,264.2)
-4	(20,215.9)	(3,018.9)
-5	(25,269.9)	(3,773.6)
-6	(30,323.9)	(4,528.3)
-7	(35,377.9)	(5,283.1)
-8	(40,431.9)	(6,037.8)
-9	(45,485.8)	(6,792.5)
-10	(50,539.8)	(7,547.2)



**TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE FACTOR
CALCULATION OF MAXIMUM ALLOWED INCENTIVE DOLLARS - ACTUAL
JANUARY 2010 - DECEMBER 2010**

Line 1	Beginning of period balance of common equity:		\$	1,831,712,000
	End of month common equity:			
Line 2	Month of January	2010	\$	1,855,750,000
Line 3	Month of February	2010	\$	1,823,462,000
Line 4	Month of March	2010	\$	1,874,060,000
Line 5	Month of April	2010	\$	1,884,939,000
Line 6	Month of May	2010	\$	1,861,303,000
Line 7	Month of June	2010	\$	1,884,415,000
Line 8	Month of July	2010	\$	1,910,587,000
Line 9	Month of August	2010	\$	1,877,869,000
Line 10	Month of September	2010	\$	1,902,060,000
Line 11	Month of October	2010	\$	1,920,285,000
Line 12	Month of November	2010	\$	1,868,567,000
Line 13	Month of December	2010	\$	1,883,456,000
Line 14	(Summation of line 1 through line 13 divided by 13)		\$	1,875,266,538
Line 15	25 Basis points			0.0025
Line 16	Revenue Expansion Factor			61.17%
Line 17	Maximum Allowed Incentive Dollars (line 14 times line 15 divided by line 16)		\$	7,664,661
Line 18	Jurisdictional Sales			19,212,671 MWH
Line 19	Total Sales			19,511,609 MWH
Line 20	Jurisdictional Separation Factor (line 18 divided by line 19)			98.47%
Line 21	Maximum Allowed Jurisdictional Incentive Dollars (line 17 times line 20)		\$	7,547,230

**TAMPA ELECTRIC COMPANY
CALCULATION OF SYSTEM GPIF POINTS - ACTUAL
JANUARY 2010 - DECEMBER 2010**

<u>PLANT / UNIT</u>	<u>12 MONTH ADJ. ACTUAL PERFORMANCE</u>		<u>WEIGHTING FACTOR %</u>	<u>UNIT POINTS</u>	<u>WEIGHTED UNIT POINTS</u>
BIG BEND 1	58.6%	EAF	11.06%	8.228	0.910
BIG BEND 2	69.2%	EAF	14.96%	2.812	0.421
BIG BEND 3	79.7%	EAF	5.57%	8.162	0.454
BIG BEND 4	69.8%	EAF	9.99%	1.485	0.148
POLK 1	91.0%	EAF	3.49%	10.000	0.349
BAYSIDE 1	95.1%	EAF	0.17%	-7.452	-0.013
BAYSIDE 2	94.3%	EAF	0.36%	-10.000	-0.036
BIG BEND 1	10,230	ANOHR	5.58%	10.000	0.558
BIG BEND 2	10,150	ANOHR	5.98%	10.000	0.598
BIG BEND 3	10,629	ANOHR	5.42%	0.000	0.000
BIG BEND 4	10,471	ANOHR	9.10%	3.234	0.294
POLK 1	11,030	ANOHR	10.79%	-8.896	-0.960
BAYSIDE 1	7,233	ANOHR	11.17%	0.000	0.000
BAYSIDE 2	7,411	ANOHR	6.36%	0.000	0.000
			100.00%		2.722

GPIF REWARD	\$ 2,054,696
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**TAMPA ELECTRIC COMPANY
GPIF TARGET AND RANGE SUMMARY**

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>
BIG BEND 1	11.06%	54.42	59.5	44.2	3,719.8	(7,408.0)	58.6%	6,095.5
BIG BEND 2	14.96%	67.56	73.4	55.9	5,031.6	(10,517.0)	69.2%	2,957.3
BIG BEND 3	5.57%	76.98	80.3	70.3	1,872.3	(5,522.4)	79.7%	4,507.5
BIG BEND 4	9.99%	69.23	73.1	61.5	3,361.3	(6,152.1)	69.8%	913.7
POLK 1	3.49%	84.91	87.4	80.0	1,173.9	(2,349.5)	91.0%	2,349.5
BAYSIDE 1	0.17%	95.57	95.9	94.9	58.2	(54.0)	95.1%	(40.2)
BAYSIDE 2	0.36%	95.62	95.9	95.0	122.6	(235.3)	94.3%	(235.3)
GPIF SYSTEM	45.60%				15,339.7	(32,238.3)		

AVERAGE NET OPERATING HEAT RATE (Btu/kwh)

<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>				
BIG BEND 1	5.58%	10,785	89.9	10,426	11,145	1,877.3	(1,877.3)	10,230	1,877.3
BIG BEND 2	5.98%	10,481	92.5	10,176	10,787	2,011.5	(2,011.5)	10,150	2,011.5
BIG BEND 3	5.42%	10,627	88.2	10,365	10,889	1,824.5	(1,824.5)	10,629	0.0
BIG BEND 4	9.10%	10,661	88.5	10,230	11,092	3,060.1	(3,060.1)	10,471	989.5
POLK 1	10.79%	10,375	89.4	9,648	11,102	3,631.3	(3,631.3)	11,030	(3,230.6)
BAYSIDE 1	11.17%	7,250	79.9	7,125	7,376	3,758.6	(3,758.6)	7,233	0.0
BAYSIDE 2	6.36%	7,409	70.0	7,326	7,493	2,138.2	(2,138.2)	7,411	0.0
GPIF SYSTEM	54.40%					18,301.5	(18,301.5)		

15

EXHIBIT NO. _____ (BSB-1)
 TAMPA ELECTRIC COMPANY
 DOCKET NO. 110001 - EI
 DOCUMENT NO. 1
 Page 5 of 32

**TAMPA ELECTRIC COMPANY
UNIT PERFORMANCE DATA - ACTUAL
JANUARY 2010 - DECEMBER 2010**

<u>PLANT / UNIT</u>	<u>ACTUAL EAF (%)</u>	<u>ADJUSTMENTS (1) TO EAF (%)</u>	<u>EAF ADJUSTED ACTUAL (%)</u>
BIG BEND 1	60.5	-1.9	58.6
BIG BEND 2	68.4	0.8	69.2
BIG BEND 3	79.8	-0.1	79.7
BIG BEND 4	66.5	3.3	69.8
POLK 1	90.0	1.0	91.0
BAYSIDE 1	93.9	1.2	95.1
BAYSIDE 2	89.5	4.8	94.3

<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>
BIG BEND 1	10,231	-1	10,230
BIG BEND 2	10,178	-28	10,150
BIG BEND 3	10,577	52	10,629
BIG BEND 4	10,321	150	10,471
POLK 1	10,049	981	11,030
BAYSIDE 1	7,260	-27	7,233
BAYSIDE 2	7,376	35	7,411

(1) Documentation of adjustments to Actual EAF on pages 7 - 13

(2) Documentation of adjustments to Actual ANOHR on pages 14 - 20

**TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO PERFORMANCE
BIG BEND UNIT NO. 1
JANUARY 2010 - DECEMBER 2010**

WEIGHTING FACTOR = 11.06%

	<u>12 MONTH TARGET</u>	<u>12 MONTH ACTUAL PERFORMANCE</u>	<u>ADJUSTED ACTUAL PERFORMANCE</u>
PH	8,760	8,760	8,760
EAF	54.4	60.5	58.6
POH	2,351.0	2,143.4	2,351.0
FOH + EFOH	933.1	1,006.3	974.7
MOH + EMOH	708.6	312.7	302.9
POF	26.8	24.5	26.8
EFOF	10.7	11.5	11.1
EMOF	8.1	3.6	3.5
	8.228	EQUIVALENT AVAILABILITY POINTS	

ADJUSTMENTS TO ACTUAL EAF FOR COMPARISON

$$\frac{PH - POH_{TARGET}}{PH - POH_{ACTUAL}} \times (FOH + EFOH + MOH + EMOH) = EUOH_{ADJUSTED}$$

$$\frac{8,760 - 2,351}{8,760 - 2,143.4} \times (1,006.3 + 312.7) = 1,277.6$$

$$100 - POF_{TARGET} - \frac{EUOH_{ADJUSTED}}{PH} \times 100 = EAF_{ADJUSTED}$$

$$100 - 26.8 - \frac{1,277.6}{8,760.0} \times 100 = 58.6$$

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

**TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO PERFORMANCE
BIG BEND UNIT NO. 2
JANUARY 2010 - DECEMBER 2010**

WEIGHTING FACTOR = 14.96%

	<u>12 MONTH TARGET</u>	<u>12 MONTH ACTUAL PERFORMANCE</u>	<u>ADJUSTED ACTUAL PERFORMANCE</u>
PH	8,760	8,760	8,760
EAF	67.6	68.4	69.2
POH	384.0	479.5	384.0
FOH + EFOH	1,997.2	2,199.3	2,224.7
MOH + EMOH	460.5	86.9	87.9
POF	4.4	5.5	4.4
EFOF	22.8	25.1	25.4
EMOF	5.3	1.0	1.0
	2.812	EQUIVALENT AVAILABILITY POINTS	

ADJUSTMENTS TO ACTUAL EAF FOR COMPARISON

$$\frac{PH - POH_{TARGET}}{PH - POH_{ACTUAL}} \times (FOH + EFOH + MOH + EMOH) = EUOH_{ADJUSTED}$$

$$\frac{8,760 - 384}{8,760 - 479.5} \times (2,199.3 + 86.9) = 2,312.6$$

$$100 - POF_{TARGET} - \frac{EUOH_{ADJUSTED}}{PH} \times 100 = EAF_{ADJUSTED}$$

$$100 - 4.4 - \frac{2,312.6}{8,760.0} \times 100 = 69.2$$

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

**TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO PERFORMANCE
BIG BEND UNIT NO. 3
JANUARY 2010 - DECEMBER 2010**

WEIGHTING FACTOR = 5.57%

	<u>12 MONTH TARGET</u>	<u>12 MONTH ACTUAL PERFORMANCE</u>	<u>ADJUSTED ACTUAL PERFORMANCE</u>
PH	8,760	8,760	8,760
EAF	77.0	79.8	79.7
POH	744.0	732.3	744.0
FOH + EFOH	1,006.7	962.5	961.1
MOH + EMOH	265.7	76.6	76.5
POF	8.5	8.4	8.5
EFOF	11.5	11.0	11.0
EMOF	3.0	0.9	0.9
	8.162	EQUIVALENT AVAILABILITY POINTS	

ADJUSTMENTS TO ACTUAL EAF FOR COMPARISON

$$\frac{PH - POH_{TARGET}}{PH - POH_{ACTUAL}} \times (FOH + EFOH + MOH + EMOH) = EUOH_{ADJUSTED}$$

$$\frac{8,760 - 744}{8,760 - 732.3} \times (962.5 + 76.6) = 1,037.6$$

$$100 - POF_{TARGET} - \frac{EUOH_{ADJUSTED}}{PH} \times 100 = EAF_{ADJUSTED}$$

$$100 - 8.5 - \frac{1,037.6}{8,760.0} \times 100 = 79.7$$

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

**TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO PERFORMANCE
BIG BEND UNIT NO. 4
JANUARY 2010 - DECEMBER 2010**

WEIGHTING FACTOR = 9.99%

	<u>12 MONTH TARGET</u>	<u>12 MONTH ACTUAL PERFORMANCE</u>	<u>ADJUSTED ACTUAL PERFORMANCE</u>
PH	8,760	8,760	8,760
EAF	69.2	66.5	69.8
POH	1,344.0	1,693.2	1,344.0
FOH + EFOH	848.0	1,047.9	1,099.7
MOH + EMOH	503.7	192.1	201.6
POF	15.3	19.3	15.3
EFOF	9.7	12.0	12.6
EMOF	5.7	2.2	2.3
	1.485		EQUIVALENT AVAILABILITY POINTS

ADJUSTMENTS TO ACTUAL EAF FOR COMPARISON

$$\frac{PH - POH_{TARGET}}{PH - POH_{ACTUAL}} \times (FOH + EFOH + MOH + EMOH) = EUOH_{ADJUSTED}$$

$$\frac{8,760 - 1,344}{8,760 - 1,693.2} \times (1,047.9 + 192.1) = 1,301.3$$

$$100 - POF_{TARGET} - \frac{EUOH_{ADJUSTED}}{PH} \times 100 = EAF_{ADJUSTED}$$

$$100 - 15.3 - \frac{1,301.3}{8,760.0} \times 100 = 69.8$$

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

**TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO PERFORMANCE
POLK UNIT NO. 1
JANUARY 2010 - DECEMBER 2010**

WEIGHTING FACTOR = 3.49%

	<u>12 MONTH TARGET</u>	<u>12 MONTH ACTUAL PERFORMANCE</u>	<u>ADJUSTED ACTUAL PERFORMANCE</u>
PH	8,760	8,760	8,760
EAF	84.9	90.0	91.0
POH	336.0	419.2	336.0
FOH + EFOH	755.3	318.4	321.6
MOH + EMOH	230.5	136.2	137.6
POF	3.8	4.8	3.8
EFOF	8.6	3.6	3.7
EMOF	2.6	1.6	1.6
	10.000		EQUIVALENT AVAILABILITY POINTS

ADJUSTMENTS TO ACTUAL EAF FOR COMPARISON

$$\frac{PH - POH_{TARGET}}{PH - POH_{ACTUAL}} \times (FOH + EFOH + MOH + EMOH) = EUOH_{ADJUSTED}$$

$$\frac{8,760 - 336}{8,760 - 419.2} \times (318.4 + 136.2) = 459.1$$

$$100 - POF_{TARGET} - \frac{EUOH_{ADJUSTED}}{PH} \times 100 = EAF_{ADJUSTED}$$

$$100 - 3.8 - \frac{459.1}{8,760.0} \times 100 = 91.0$$

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

**TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO PERFORMANCE
BAYSIDE UNIT NO. 1
JANUARY 2010 - DECEMBER 2010**

WEIGHTING FACTOR = 0.17%

	<u>12 MONTH TARGET</u>	<u>12 MONTH ACTUAL PERFORMANCE</u>	<u>ADJUSTED ACTUAL PERFORMANCE</u>
PH	8,760	8,760	8,760
EAF	95.6	93.9	95.1
POH	336.0	439.1	336.0
FOH + EFOH	16.1	34.6	35.0
MOH + EMOH	36.2	57.4	58.1
POF	3.8	5.0	3.8
EFOF	0.2	0.4	0.4
EMOF	0.4	0.7	0.7
	-7.452	EQUIVALENT AVAILABILITY POINTS	

ADJUSTMENTS TO ACTUAL EAF FOR COMPARISON

$$\frac{PH - POH_{TARGET}}{PH - POH_{ACTUAL}} \times (FOH + EFOH + MOH + EMOH) = EUOH_{ADJUSTED}$$

$$\frac{8,760 - 336}{8,760 - 439.1} \times (34.6 + 57.4) = 93.1$$

$$100 - POF_{TARGET} - \frac{EUOH_{ADJUSTED}}{PH} \times 100 = EAF_{ADJUSTED}$$

$$100 - 3.8 - \frac{93.1}{8,760.0} \times 100 = 95.1$$

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

**TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO PERFORMANCE
BAYSIDE UNIT NO. 2
JANUARY 2010 - DECEMBER 2010**

WEIGHTING FACTOR = 0.36%

	<u>12 MONTH TARGET</u>	<u>12 MONTH ACTUAL PERFORMANCE</u>	<u>ADJUSTED ACTUAL PERFORMANCE</u>
PH	8,760	8,760	8,760
EAF	95.6	89.5	94.3
POH	336.0	760.7	336.0
FOH + EFOH	26.0	12.9	13.6
MOH + EMOH	21.8	142.2	149.7
POF	3.8	8.7	3.8
EFOF	0.3	0.1	0.2
EMOF	0.2	1.6	1.7
	-10.000	EQUIVALENT AVAILABILITY POINTS	

ADJUSTMENTS TO ACTUAL EAF FOR COMPARISON

$$\frac{PH - POH_{TARGET}}{PH - POH_{ACTUAL}} \times (FOH + EFOH + MOH + EMOH) = EUOH_{ADJUSTED}$$

$$\frac{8,760 - 336}{8,760 - 760.7} \times (12.9 + 142.2) = 163.3$$

$$100 - POF_{TARGET} - \frac{EUOH_{ADJUSTED}}{PH} \times 100 = EAF_{ADJUSTED}$$

$$100 - 3.8 - \frac{163.3}{8,760.0} \times 100 = 94.3$$

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

**TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO HEAT RATE
BIG BEND UNIT NO. 1
JANUARY 2010 - DECEMBER 2010**

WEIGHTING FACTOR = 5.58%

	<u>12 MONTH TARGET</u>	<u>12 MONTH ACTUAL PERFORMANCE</u>
ANOHR (Btu/kwh)	10,785	10,231
NET GENERATION (GWH)	1,799	1,978
OPERATING BTU (10 ⁹)	19,146	20,240
NET OUTPUT FACTOR	89.9	89.8

10.000 HEAT RATE POINTS

ADJUSTMENTS TO ACTUAL HEAT RATE FOR COMPARISON

CURRENT EQUATION: $NOF * (-13.96) + 12,039.83 = ANOHR$

$89.8 * (-13.96) + 12,039.83 = 10,786$

$10,231 - 10,786 = -555$

$10,785 + -555 = 10,230$ ← ADJUSTED ACTUAL HEAT RATE AT TARGET NOF

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

**TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO HEAT RATE
BIG BEND UNIT NO. 2
JANUARY 2010 - DECEMBER 2010**

WEIGHTING FACTOR = 5.98%

	<u>12 MONTH TARGET</u>	<u>12 MONTH ACTUAL PERFORMANCE</u>
ANOHR (Btu/kwh)	10,481	10,178
NET GENERATION (GWH)	2,242.7	2,197.1
OPERATING BTU (10 ⁹)	23,781.7	22,361.7
NET OUTPUT FACTOR	92.5	87.6

10.000 HEAT RATE POINTS

ADJUSTMENTS TO ACTUAL HEAT RATE FOR COMPARISON

CURRENT EQUATION: $NOF * (-13.96) + 12,039.83 = ANOHR$

$$87.6 * (-5.51) + 10,991.07 = 10,509$$

$$10,178 - 10,509 = -331$$

$$10,481 + -331 = 10,150 \leftarrow \text{ADJUSTED ACTUAL HEAT RATE AT TARGET NOF}$$

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

**TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO HEAT RATE
BIG BEND UNIT NO. 3
JANUARY 2010 - DECEMBER 2010**

WEIGHTING FACTOR = 5.42%

	<u>12 MONTH TARGET</u>	<u>12 MONTH ACTUAL PERFORMANCE</u>
ANOHR (Btu/kwh)	10,627	10,577
NET GENERATION (GWH)	2,473.0	2,434.2
OPERATING BTU (10 ⁹)	26,365.2	25,746.8
NET OUTPUT FACTOR	88.2	92.7

0.000 HEAT RATE POINTS

ADJUSTMENTS TO ACTUAL HEAT RATE FOR COMPARISON

CURRENT EQUATION: $NOF * (-13.96) + 12,039.83 = ANOHR$

$$92.7 * (-11.56) + 11,646.92 = 10,575$$

$$10,577 - 10,575 = 2$$

$$10,627 + 2 = 10,629 \leftarrow \text{ADJUSTED ACTUAL HEAT RATE AT TARGET NOF}$$

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

**TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO HEAT RATE
BIG BEND UNIT NO. 4
JANUARY 2010 - DECEMBER 2010**

WEIGHTING FACTOR = 9.10%

	<u>12 MONTH TARGET</u>	<u>12 MONTH ACTUAL PERFORMANCE</u>
ANOHR (Btu/kwh)	10,661	10,321
NET GENERATION (GWH)	2,492.4	2,376.9
OPERATING BTU (10 ⁹)	26,674.5	24,530.7
NET OUTPUT FACTOR	88.5	91.5

3.234 HEAT RATE POINTS

ADJUSTMENTS TO ACTUAL HEAT RATE FOR COMPARISON

CURRENT EQUATION: $\text{NOF} * (-13.96) + 12,039.83 = \text{ANOHR}$

$$91.5 * (-49.97) + 15,083.61 = 10,511$$

$$10,321 - 10,511 = -190$$

$$10,661 + -190 = 10,471 \leftarrow \text{ADJUSTED ACTUAL HEAT RATE AT TARGET NOF}$$

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

**TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO HEAT RATE
POLK UNIT NO. 1
JANUARY 2010 - DECEMBER 2010**

WEIGHTING FACTOR = 10.79%

	<u>12 MONTH TARGET</u>	<u>12 MONTH ACTUAL PERFORMANCE</u>
ANOHR (Btu/kwh)	10,375	10,049
NET GENERATION (GWH)	1,719.9	1,664.6
OPERATING BTU (10 ⁹)	18,233.6	16,726.9
NET OUTPUT FACTOR	89.4	97.7

-8.896 HEAT RATE POINTS

ADJUSTMENTS TO ACTUAL HEAT RATE FOR COMPARISON

CURRENT EQUATION: $\text{NOF} * (-13.96) + 12,039.83 = \text{ANOHR}$

$97.7 * (-117.88) + 20,910.13 = 9,394$

$10,049 \quad - \quad 9,394 \quad = \quad 655$

$10,375 \quad + \quad 655 \quad = \quad 11,030$ ← ADJUSTED ACTUAL
HEAT RATE AT
TARGET NOF

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

**TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO HEAT RATE
BAYSIDE UNIT NO. 1
JANUARY 2010 - DECEMBER 2010**

WEIGHTING FACTOR = 11.17%

	<u>12 MONTH TARGET</u>	<u>12 MONTH ACTUAL PERFORMANCE</u>
ANOHR (Btu/kwh)	7,250	7,260
NET GENERATION (GWH)	4,753.5	3,403.9
OPERATING BTU (10 ⁹)	34,537.1	24,713.9
NET OUTPUT FACTOR	79.9	74.5

0.000 HEAT RATE POINTS

ADJUSTMENTS TO ACTUAL HEAT RATE FOR COMPARISON

CURRENT EQUATION: $\text{NOF} * (-13.96) + 12,039.83 = \text{ANOHR}$

$$74.5 * (-4.99) + 7,648.85 = 7,277$$

$$7,260 - 7,277 = -17$$

$$7,250 + (-17) = 7,233 \quad \leftarrow \text{ADJUSTED ACTUAL HEAT RATE AT TARGET NOF}$$

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

**TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO HEAT RATE
BAYSIDE UNIT NO. 2
JANUARY 2010 - DECEMBER 2010**

WEIGHTING FACTOR = 6.36%

	<u>12 MONTH TARGET</u>	<u>12 MONTH ACTUAL PERFORMANCE</u>
ANOHR (Btu/kwh)	7,409	7,376
NET GENERATION (GWH)	4,001.2	4,599.7
OPERATING BTU (10 ⁹)	29,637.3	33,925.0
NET OUTPUT FACTOR	70.0	75.9

0.000 HEAT RATE POINTS

ADJUSTMENTS TO ACTUAL HEAT RATE FOR COMPARISON

CURRENT EQUATION: $NOF * (-13.96) + 12,039.83 = ANOHR$

$$75.9 * (-6.07) + 7,834.42 = 7,374$$

$$7,376 - 7,374 = 2$$

$$7,409 + 2 = 7,411 \leftarrow \text{ADJUSTED ACTUAL HEAT RATE AT TARGET NOF}$$

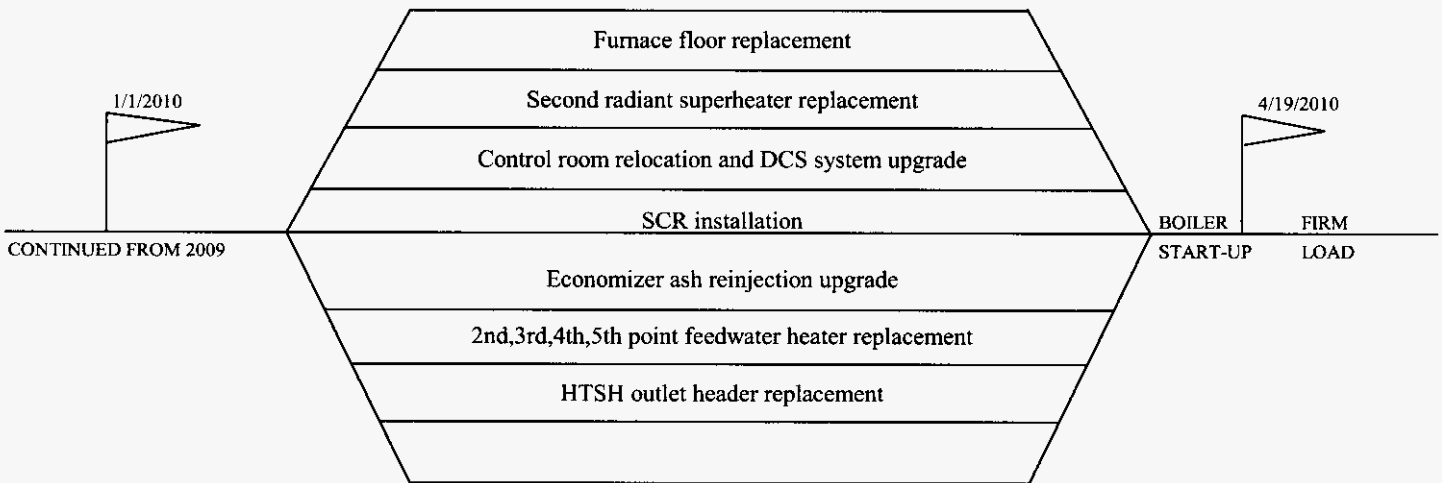
ANOHR = AVERAGE NET OPERATING HEAT RATE
NOF = NET OPERATING FACTOR

**TAMPA ELECTRIC COMPANY
PLANNED OUTAGE SCHEDULE (ACTUAL)
GPIF UNITS
JANUARY 2010 - DECEMBER 2010**

<u>PLANT / UNIT</u>	<u>PLANNED OUTAGE DATES</u>	<u>OUTAGE DESCRIPTION</u>
+ BIG BEND 1	Jan 01 - Apr 19	SCR Outage, Furnace floor replacement, Second radiant superheater replacement, Control room relocation and DCS system upgrade, 2nd,3rd,4th,5th point feedwater heater replacement, Economizer ash reinjection upgrade and HTSH outlet header replacement.
BIG BEND 2	Jan 21 - Feb 10	Fuel System Cleanup
BIG BEND 3	Mar 08 - Mar 14 Oct 10 - Nov 03	Fuel System Cleanup Fuel System Cleanup and Scrubber work
+ BIG BEND 4	Mar 26 - Jun 11	DA tank replacement, Boiler superheater platen section replacement, Condenser tube bundle replacement, 1st & 2nd point feedwater replacement, Condenser ball cleaning system install, Scrubber work and stack liner install.
POLK 1	Feb 08 - Feb 23 Nov 16 - Nov 18	Gasifier / CT Outage Gasifier Outage
BAYSIDE 1	Mar 19 - Mar 27 Oct 29 - Nov 06	Fuel System Cleanup Fuel System Cleanup
BAYSIDE 2	Feb 28 - Mar 13 Nov 09 - Nov 23	Fuel System Cleanup Fuel System Cleanup

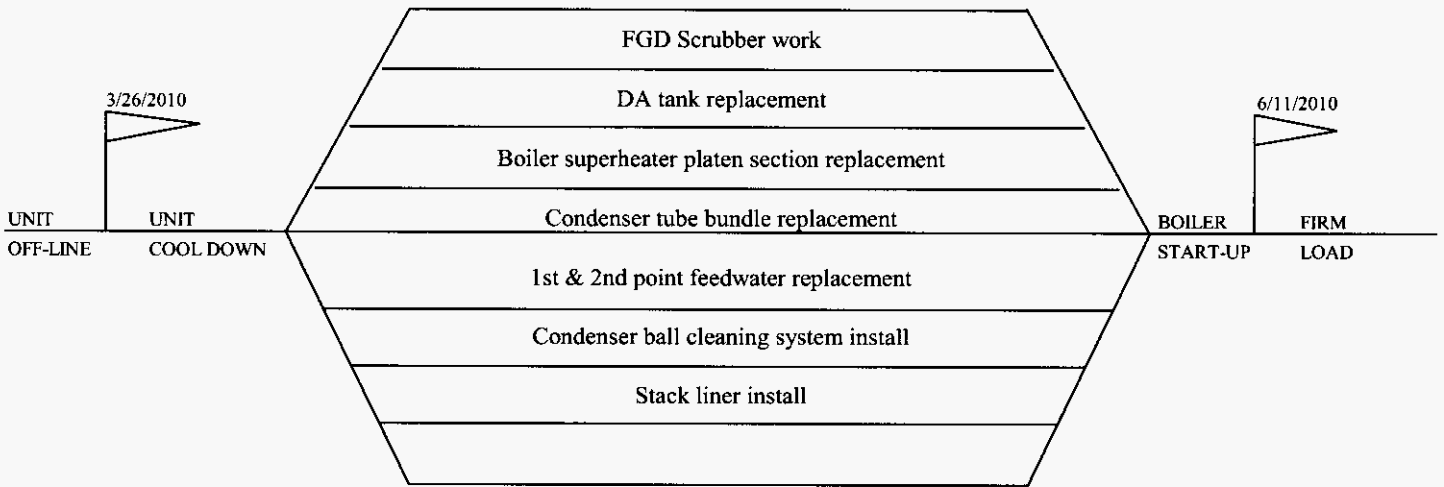
+ CPM for units with less than or equal to 4 weeks are not included.

**TAMPA ELECTRIC COMPANY
CRITICAL PATH METHOD DIAGRAMS
GPIF UNITS > FOUR WEEKS
JANUARY 2010 - DECEMBER 2010**



TAMPA ELECTRIC COMPANY
BIG BEND UNIT 1
PLANNED OUTAGE 2010
ACTUAL CPM

**TAMPA ELECTRIC COMPANY
CRITICAL PATH METHOD DIAGRAMS
GPIF UNITS > FOUR WEEKS
JANUARY 2010 - DECEMBER 2010**



TAMPA ELECTRIC COMPANY
BIG BEND UNIT 4
PLANNED OUTAGE 2010
ACTUAL CPM

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE POINTS TABLE

JANUARY 2010 - DECEMBER 2010

BIG BEND 1

EQUIVALENT AVAILABILITY POINTS	FUEL SAVINGS / (LOSS) (\$000)	ADJUSTED ACTUAL EQUIVALENT AVAILABILITY	AVERAGE HEAT RATE POINTS	FUEL SAVINGS / (LOSS) (\$000)	ADJUSTED ACTUAL AVERAGE HEAT RATE
+10	3,719.8	59.5	+10	1,877.3	10,426
+9	3,347.8	59.0	+9	1,689.6	10,454
+8	2,975.8	58.5	+8	1,501.8	10,483
+7	2,603.9	58.0	+7	1,314.1	10,511
+6	2,231.9	57.5	+6	1,126.4	10,540
+5	1,859.9	57.0	+5	938.7	10,568
+4	1,487.9	56.5	+4	750.9	10,596
+3	1,115.9	55.9	+3	563.2	10,625
+2	744.0	55.4	+2	375.5	10,653
+1	372.0	54.9	+1	187.7	10,682
0	0.0	54.4	0	0.0	10,710
-1	(740.8)	53.4	-1	(187.7)	10,785
-2	(1,481.6)	52.4	-2	(375.5)	10,860
-3	(2,222.4)	51.4	-3	(563.2)	10,889
-4	(2,963.2)	50.3	-4	(750.9)	10,917
-5	(3,704.0)	49.3	-5	(938.7)	10,946
-6	(4,444.8)	48.3	-6	(1,126.4)	10,974
-7	(5,185.6)	47.3	-7	(1,314.1)	11,003
-8	(5,926.4)	46.3	-8	(1,501.8)	11,031
-9	(6,667.2)	45.2	-9	(1,689.6)	11,060
-10	(7,408.0)	44.2	-10	(1,877.3)	11,088

Weighting Factor =

11.06%

Weighting Factor =

5.58%

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE POINTS TABLE

JANUARY 2010 - DECEMBER 2010

BIG BEND 2

<u>EQUIVALENT AVAILABILITY POINTS</u>	<u>FUEL SAVINGS / (LOSS) (\$000)</u>	<u>ADJUSTED ACTUAL EQUIVALENT AVAILABILITY</u>	<u>AVERAGE HEAT RATE POINTS</u>	<u>FUEL SAVINGS / (LOSS) (\$000)</u>	<u>ADJUSTED ACTUAL AVERAGE HEAT RATE</u>
+10	5,031.6	73.4	+10	2,011.5	10.176
+9	4,528.4	72.8	+9	1,810.3	10.199
+8	4,025.3	72.2	+8	1,609.2	10.222
+7	3,522.1	71.6	+7	1,408.0	10.245
+6	3,019.0	71.1	+6	1,206.9	10.268
+5	2,515.8	70.5	+5	1,005.7	10.291
+4	2,012.6	69.9	+4	804.6	10.314
+3	1,509.5	69.3	+3	603.4	10.337
+2	1,006.3	68.7	+2	402.3	10.360
+1	503.2	68.1	+1	201.1	10.383
0	0.0	67.6	0	0.0	10.406
-1	(1,051.7)	66.4	-1	(201.1)	10.481
-2	(2,103.4)	65.2	-2	(402.3)	10,556
-3	(3,155.1)	64.1	-3	(603.4)	10,579
-4	(4,206.8)	62.9	-4	(804.6)	10,602
-5	(5,258.5)	61.7	-5	(1,005.7)	10,625
-6	(6,310.2)	60.6	-6	(1,206.9)	10,648
-7	(7,361.9)	59.4	-7	(1,408.0)	10,671
-8	(8,413.6)	58.2	-8	(1,609.2)	10,694
-9	(9,465.3)	57.1	-9	(1,810.3)	10,717
-10	(10,517.0)	55.9	-10	(2,011.5)	10,740

Weighting Factor =

14.96%

Weighting Factor =

5.98%

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE POINTS TABLE

JANUARY 2010 - DECEMBER 2010

BIG BEND 3

EQUIVALENT AVAILABILITY POINTS	FUEL SAVINGS / (LOSS) (\$000)	ADJUSTED ACTUAL EQUIVALENT AVAILABILITY	AVERAGE HEAT RATE POINTS	FUEL SAVINGS / (LOSS) (\$000)	ADJUSTED ACTUAL AVERAGE HEAT RATE
+10	1,872.3	80.3	+10	1,824.5	10,365
+9	1,685.1	80.0	+9	1,642.0	10,384
+8	1,497.8	79.6	+8	1,459.6	10,402
+7	1,310.6	79.3	+7	1,277.1	10,421
+6	1,123.4	79.0	+6	1,094.7	10,440
+5	936.2	78.6	+5	912.2	10,459
+4	748.9	78.3	+4	729.8	10,477
+3	561.7	78.0	+3	547.3	10,496
+2	374.5	77.6	+2	364.9	10,515
+1	187.2	77.3	+1	182.4	10,533
0	0.0	77.0	0	0.0	10,552
-1	(552.2)	76.3	-1	(182.4)	10,627
-2	(1,104.5)	75.7	-2	(364.9)	10,702
-3	(1,656.7)	75.0	-3	(547.3)	10,721
-4	(2,209.0)	74.3	-4	(729.8)	10,740
-5	(2,761.2)	73.7	-5	(912.2)	10,758
-6	(3,313.4)	73.0	-6	(1,094.7)	10,777
-7	(3,865.7)	72.3	-7	(1,277.1)	10,796
-8	(4,417.9)	71.7	-8	(1,459.6)	10,814
-9	(4,970.2)	71.0	-9	(1,642.0)	10,833
-10	(5,522.4)	70.3	-10	(1,824.5)	10,852

Weighting Factor =

5.57%

Weighting Factor =

5.42%

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE POINTS TABLE

JANUARY 2010 - DECEMBER 2010

BIG BEND 4

EQUIVALENT AVAILABILITY POINTS	FUEL SAVINGS / (LOSS) (\$000)	ADJUSTED ACTUAL EQUIVALENT AVAILABILITY	AVERAGE HEAT RATE POINTS	FUEL SAVINGS / (LOSS) (\$000)	ADJUSTED ACTUAL AVERAGE HEAT RATE
+10	3,361.3	73.1	+10	3,060.1	10,230
+9	3,025.2	72.7	+9	2,754.1	10,266
+8	2,689.0	72.3	+8	2,448.1	10,301
+7	2,352.9	71.9	+7	2,142.1	10,337
+6	2,016.8	71.5	+6	1,836.1	10,372
+5	1,680.7	71.2	+5	1,530.1	10,408
+4	1,344.5	70.8	+4	1,224.0	10,444
+3	1,008.4	70.4	+3	918.0	10,479
+2	672.3	70.0	+2	612.0	10,515
+1	336.1	69.6	+1	306.0	10,551
0	0.0	69.2	0	0.0	10,586
-1	(615.2)	68.5	-1	(306.0)	10,661
-2	(1,230.4)	67.7	-2	(612.0)	10,736
-3	(1,845.6)	66.9	-3	(918.0)	10,772
-4	(2,460.8)	66.1	-4	(1,224.0)	10,807
-5	(3,076.0)	65.4	-5	(1,530.1)	10,843
-6	(3,691.3)	64.6	-6	(1,836.1)	10,879
-7	(4,306.5)	63.8	-7	(2,142.1)	10,914
-8	(4,921.7)	63.1	-8	(2,448.1)	10,950
-9	(5,536.9)	62.3	-9	(2,754.1)	10,986
-10	(6,152.1)	61.5	-10	(3,060.1)	11,021
					11,057
					11,092

← **EF POINTS 1.485**

Adjusted EAF 69.8 →

← **AHR POINTS 3.234**

Adjusted ANOHR 10.471 →

Weighting Factor =

9.99%

Weighting Factor =

9.10%

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE POINTS TABLE
JANUARY 2010 - DECEMBER 2010

POLK 1

EQUIVALENT AVAILABILITY POINTS	FUEL SAVINGS / (LOSS) (\$000)	ADJUSTED ACTUAL EQUIVALENT AVAILABILITY	AVERAGE HEAT RATE POINTS	FUEL SAVINGS / (LOSS) (\$000)	ADJUSTED ACTUAL AVERAGE HEAT RATE
+10	1,173.9	87.4	+10	3,631.3	9,648
+9	1,056.5	87.1	+9	3,268.2	9,713
+8	939.1	86.9	+8	2,905.1	9,779
+7	821.7	86.6	+7	2,541.9	9,844
+6	704.3	86.4	+6	2,178.8	9,909
+5	587.0	86.1	+5	1,815.7	9,974
+4	469.6	85.9	+4	1,452.5	10,039
+3	352.2	85.6	+3	1,089.4	10,105
+2	234.8	85.4	+2	726.3	10,170
+1	117.4	85.2	+1	363.1	10,235
0	0.0	84.9	0	0.0	10,300
-1	(235.0)	84.4	-1	(363.1)	10,375
-2	(469.9)	83.9	-2	(726.3)	10,450
-3	(704.9)	83.4	-3	(1,089.4)	10,515
-4	(939.8)	83.0	-4	(1,452.5)	10,580
-5	(1,174.8)	82.5	-5	(1,815.7)	10,646
-6	(1,409.7)	82.0	-6	(2,178.8)	10,711
-7	(1,644.7)	81.5	-7	(2,541.9)	10,776
-8	(1,879.6)	81.0	-8	(2,905.1)	10,841
-9	(2,114.6)	80.5	-9	(3,268.2)	10,906
-10	(2,349.5)	80.0	-10	(3,631.3)	10,972

Weighting Factor =

3.49%

Weighting Factor =

10.79%

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE POINTS TABLE

JANUARY 2010 - DECEMBER 2010

BAYSIDE 1

EQUIVALENT AVAILABILITY POINTS	FUEL SAVINGS / (LOSS) (\$000)	ADJUSTED ACTUAL EQUIVALENT AVAILABILITY	AVERAGE HEAT RATE POINTS	FUEL SAVINGS / (LOSS) (\$000)	ADJUSTED ACTUAL AVERAGE HEAT RATE
+10	58.2	95.9	+10	3,758.6	7,125
+9	52.4	95.8	+9	3,382.7	7,130
+8	46.6	95.8	+8	3,006.9	7,135
+7	40.7	95.8	+7	2,631.0	7,140
+6	34.9	95.8	+6	2,255.1	7,145
+5	29.1	95.7	+5	1,879.3	7,150
+4	23.3	95.7	+4	1,503.4	7,155
+3	17.5	95.7	+3	1,127.6	7,160
+2	11.6	95.6	+2	751.7	7,165
+1	5.8	95.6	+1	375.9	7,170
					7,175
0	0.0	95.6	0	0.0	7,250
				AHR POINTS 0.000	Adjusted ANOHR 7,233
					7,325
-1	(5.4)	95.5	-1	(375.9)	7,330
-2	(10.8)	95.4	-2	(751.7)	7,335
-3	(16.2)	95.4	-3	(1,127.6)	7,340
-4	(21.6)	95.3	-4	(1,503.4)	7,346
-5	(27.0)	95.3	-5	(1,879.3)	7,351
-6	(32.4)	95.2	-6	(2,255.1)	7,356
-7	(37.8)	95.1	-7	(2,631.0)	7,361
				EAFF POINTS -7.452	Adjusted EAF 95.1
-8	(43.2)	95.1	-8	(3,006.9)	7,366
-9	(48.6)	95.0	-9	(3,382.7)	7,371
-10	(54.0)	94.9	-10	(3,758.6)	7,376

Weighting Factor =

0.17%

Weighting Factor =

11.17%

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE POINTS TABLE

JANUARY 2010 - DECEMBER 2010

BAYSIDE 2

EQUIVALENT AVAILABILITY POINTS	FUEL SAVINGS / (LOSS) (\$000)	ADJUSTED ACTUAL EQUIVALENT AVAILABILITY	AVERAGE HEAT RATE POINTS	FUEL SAVINGS / (LOSS) (\$000)	ADJUSTED ACTUAL AVERAGE HEAT RATE
+10	122.6	95.9	+10	2,138.2	7,326
+9	110.3	95.9	+9	1,924.4	7,327
+8	98.1	95.9	+8	1,710.6	7,328
+7	85.8	95.8	+7	1,496.7	7,329
+6	73.6	95.8	+6	1,282.9	7,329
+5	61.3	95.8	+5	1,069.1	7,330
+4	49.0	95.7	+4	855.3	7,331
+3	36.8	95.7	+3	641.5	7,332
+2	24.5	95.7	+2	427.6	7,333
+1	12.3	95.6	+1	213.8	7,334
0	0.0	95.6	0	0.0	7,409
-1	(23.5)	95.6	-1	(213.8)	7,485
-2	(47.1)	95.5	-2	(427.6)	7,486
-3	(70.6)	95.4	-3	(641.5)	7,487
-4	(94.1)	95.4	-4	(855.3)	7,488
-5	(117.6)	95.3	-5	(1,069.1)	7,488
-6	(141.2)	95.3	-6	(1,282.9)	7,489
-7	(164.7)	95.2	-7	(1,496.7)	7,490
-8	(188.2)	95.1	-8	(1,710.6)	7,491
-9	(211.8)	95.1	-9	(1,924.4)	7,492
-10	(235.3)	95.0	-10	(2,138.2)	7,493

AHR
POINTS
0.000

Adjusted
ANOHR
7,411

EAF
POINTS
-10.000

Adjusted
EAF
94.3

Weighting Factor =

0.36%

Weighting Factor =

6.36%

TAMPA ELECTRIC COMPANY
COMPARISON OF GPIF TARGETS VS ACTUAL PERFORMANCE

EQUIVALENT AVAILABILITY (%)

PLANT / UNIT	TARGET WEIGHTING FACTOR (%)	NORMALIZED WEIGHTING FACTOR	TARGET PERIOD JAN 10 - DEC 10			ACTUAL PERFORMANCE JAN 10 - DEC 10			
			POF	EUOF	EUOR	POF	EUOF	EUOR	
BIG BEND 1	11.06%	24.2%	26.8	18.7	25.6	24.5	15.1	19.9	
BIG BEND 2	14.96%	32.8%	4.4	28.1	29.3	5.5	26.1	27.6	
BIG BEND 3	5.57%	12.2%	8.5	14.5	15.9	8.4	11.9	12.9	
BIG BEND 4	9.99%	21.9%	15.3	15.4	18.2	19.3	14.2	17.5	
POLK 1	3.49%	7.7%	3.8	11.3	11.7	4.8	5.2	5.4	
BAYSIDE 1	0.17%	0.4%	3.8	11.3	11.7	4.8	5.2	5.4	
BAYSIDE 2	0.36%	0.8%	3.8	11.3	11.7	4.8	5.2	5.4	
GPIF SYSTEM	45.6%	100.0%	12.7	19.9	22.8	13.4	17.2	19.8	
GPIF SYSTEM WEIGHTED EQUIVALENT AVAILABILITY (%)				67.4			69.4		
			3 PERIOD AVERAGE			3 PERIOD AVERAGE			
			POF	EUOF	EUOR	EAF			
			11.4	22.3	25.0	66.3			

AVERAGE NET OPERATING HEAT RATE (Btu/kwh)

PLANT / UNIT	TARGET WEIGHTING FACTOR (%)	NORMALIZED WEIGHTING FACTOR	TARGET HEAT RATE	ADJUSTED ACTUAL HEAT RATE
			JAN 10 - DEC 10	JAN 10 - DEC 10
BIG BEND 1	5.58%	10.3%	10,785	10,230
BIG BEND 2	5.98%	11.0%	10,481	10,150
BIG BEND 3	5.42%	10.0%	10,627	10,629
BIG BEND 4	9.10%	16.7%	10,661	10,471
POLK 1	10.79%	19.8%	10,375	11,030
BAYSIDE 1	11.17%	20.5%	7,250	7,233
BAYSIDE 2	6.36%	11.7%	7,409	7,411
GPIF SYSTEM	54.4%	100.0%		
GPIF SYSTEM WEIGHTED AVERAGE HEAT RATE (Btu/kwh)			9,514	9,515

**TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE POINTS CALCULATION
JANUARY 2010 - DECEMBER 2010**

Points are calculated according to the formula:

$$GPIP = \sum_{i=1}^n [a_i(EAP_i) + e_i(AHRP_i)]$$

Where:

GPIP = Generating performance incentive points

a_i = Percentage of total system fuel cost reduction attributed to maximum reasonably attainable equivalent availability of unit i during the period

e_i = Percentage of total system fuel cost reduction attributed to minimum reasonably attainable average heat rate of unit i during the period

EAP_i = Equivalent availability points awarded/deducted for unit i

AHRP_i = Average heat rate points awarded/deducted for unit i

Weighting factors and point values are listed on page 4.

<i>GPIP</i> =	11.06%	*	(BB 1 EAP)	+	14.96%	*	(BB 2 EAP)	+	5.57%	*	(BB 3 EAP)	
	+	9.99%	*	(BB 4 EAP)	+	3.49%	*	(PK 1 EAP)	+	0.17%	*	(BAY 1 EAP)
	+	0.36%	*	(BAY 2 EAP)	+	5.58%	*	(BB 1 AHRP)	+	5.98%	*	(BB 2 AHRP)
	+	5.42%	*	(BB 3 AHRP)	+	9.10%	*	(BB 4 AHRP)	+	10.79%	*	(PK 1 AHRP)
	+	11.17%	*	(BAY 1 AHRP)	+	6.36%	*	(BAY 2 AHRP)				

<i>GPIP</i> =	11.06%	*	8.228	+	14.96%	*	2.812	+	5.57%	*	8.162	
	+	9.99%	*	1.485	+	3.49%	*	10.000	+	0.17%	*	-7.452
	+	0.36%	*	-10.000	+	5.58%	*	10.000	+	5.98%	*	10.000
	+	5.42%	*	0.000	+	9.10%	*	3.234	+	10.79%	*	-8.896
	+	11.17%	*	0.000	+	6.36%	*	0.000				

<i>GPIP</i> =		0.910	+	0.421	+	0.454
	+	0.148	+	0.349	+	-0.013
	+	-0.036	+	0.558	+	0.598
	+	0.000	+	0.294	+	-0.960
	+	0.000	+	0.000		

GPIP = 2.722 POINTS

REWARD/PENALTY dollar amounts of the Generating Performance Incentive Factor (GPIF) are determined directly from the table for the corresponding Generating Performance Points (GPIP) on page 2.

GPIF REWARD = \$2,054,696

EXHIBIT NO. ____ (BSB-1)
TAMPA ELECTRIC COMPANY
DOCKET NO. 110001-EI
GPIF 2010 FINAL TRUE-UP
DOCUMENT NO. 2

EXHIBIT TO THE TESTIMONY OF
BRIAN S. BUCKLEY

DOCKET NO. 110001-EI

TAMPA ELECTRIC COMPANY
2010 GENERATING PERFORMANCE INCENTIVE FACTOR
TRUE-UP

DOCUMENT NO. 2
ACTUAL UNIT PERFORMANCE DATA

ORIGINAL SHEET NO. 8.401.10A
TAMPA ELECTRIC COMPANY

ACTUAL UNIT PERFORMANCE DATA

JANUARY 2010 - DECEMBER 2010

PLANT/UNIT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	2010
BIG BEND 1													
1. EAF (%)	0.0	0.0	12.7	67.5	84.3	74.9	96.2	89.9	45.7	72.5	96.9	80.5	60.5
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	0.0	0.0	230.7	498.1	736.4	571.2	744.0	677.7	335.0	545.8	721.0	612.8	5,672.6
4. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. UH	744.0	672.0	512.3	221.9	7.6	148.8	0.0	66.3	385.0	198.2	0.0	131.2	3,087.4
6. POH	744.0	672.0	512.3	215.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,143.4
7. FOH	0.0	0.0	0.0	6.8	7.6	148.8	0.0	66.3	248.0	198.2	0.0	131.2	807.0
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	137.0	0.0	0.0	0.0	137.0
9. PFOH	0.0	0.0	0.0	50.4	684.2	212.8	443.9	102.8	49.6	33.1	30.7	175.6	1,783.0
10. LR PF (MW)	0.0	0.0	0.0	90.0	55.5	46.0	20.0	26.7	34.1	75.0	148.0	27.1	43.4
11. PMOH	0.0	0.0	230.7	0.0	16.8	19.4	13.2	4.3	4.8	0.0	28.5	4.6	322.3
12. LR PM (MW)	0.0	0.0	233.2	0.0	249.8	122.1	144.4	136.2	131.5	0.0	142.0	150.5	211.7
13. NSC (MW)	395	395	395	385	385	385	385	385	385	385	385	395	388
14. OPR BTU(GBTU)	0.0	0.0	504.3	1,840.0	2,452.3	2,061.1	2,686.2	2,508.4	1,209.1	2,046.8	2,575.1	2,356.5	20,239.8
15. NET GEN (MWH)	0	0	41,300	180,209	238,833	204,858	269,942	253,810	116,233	196,441	252,834	223,738	1,978,198
16. ANOHR (BTU/KWH)	0	0	12,211	10,210	10,268	10,061	9,951	9,883	10,402	10,419	10,185	10,533	10,231
17. NOF (%)	0.0	0.0	45.3	94.0	84.2	93.2	94.2	97.3	90.1	93.5	91.1	92.4	89.8
18. NPC (MW)	395	395	395	385	385	385	385	385	385	385	385	395	388
19. ANOHR EQUATION	ANOHR = NOF (-13.958) + 12,039.834												

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ORIGINAL SHEET NO. 8.401.10A
TAMPA ELECTRIC COMPANY

ACTUAL UNIT PERFORMANCE DATA

JANUARY 2010 - DECEMBER 2010

PLANT/UNIT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	2010
BIG BEND 2													
1. EAF (%)	48.8	37.4	82.1	57.5	60.1	95.2	88.1	88.2	51.5	52.8	63.4	93.2	68.4
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	483.4	261.8	634.1	428.5	458.6	692.1	721.0	741.1	387.8	426.0	486.1	736.4	6,456.8
4. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. UH	260.7	410.2	108.9	291.5	285.4	27.9	23.0	2.9	332.2	318.1	234.9	7.7	2,303.2
6. POH	260.7	218.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	479.5
7. FOH	0.0	191.4	108.9	291.5	285.4	5.3	4.0	2.9	332.2	318.1	234.9	7.7	1,782.1
8. MOH	0.0	0.0	0.0	0.0	0.0	22.7	19.0	0.0	0.0	0.0	0.0	0.0	41.7
9. PFOH	483.0	47.5	74.6	55.6	78.1	60.9	514.4	610.0	45.2	226.3	72.5	160.8	2,428.8
10. LR PF (MW)	98.6	88.5	127.1	98.5	57.0	42.9	40.7	51.4	144.2	33.6	101.3	89.5	66.7
11. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	32.4	9.8	0.0	38.7	22.4	18.6	121.9
12. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	135.6	136.1	0.0	136.3	172.1	145.8	144.1
13. NSC (MW)	395	395	395	385	385	385	385	385	385	385	385	395	388
14. OPR BTU(GBTU)	1,447.9	994.7	2,384.9	1,548.9	1,680.3	2,648.2	2,394.0	2,123.6	1,465.2	1,314.7	1,672.7	2,686.5	22,361.7
15. NET GEN (MWH)	141,390	99,982	232,678	151,825	167,782	266,025	240,374	202,551	140,496	130,763	160,773	262,477	2,197,115
16. ANOHR (BTU/KWH)	10,240	9,949	10,250	10,202	10,015	9,955	9,960	10,484	10,429	10,054	10,404	10,235	10,178
17. NOF (%)	74.1	96.7	92.9	92.0	95.0	99.8	86.6	71.0	94.1	79.7	85.9	90.2	87.6
18. NPC (MW)	395	395	395	385	385	385	385	385	385	385	385	395	388
19. ANOHR EQUATION	ANOHR = NOF (-5.508) + 10,991.072												

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EXHIBIT NO. _____ (BSB-1)
TAMPA ELECTRIC COMPANY
DOCKET NO. 110001 - EI
DOCUMENT NO. 2
PAGE 2 OF 7

ORIGINAL SHEET NO. 8.401.10A
TAMPA ELECTRIC COMPANY

ACTUAL UNIT PERFORMANCE DATA

JANUARY 2010 - DECEMBER 2010

PLANT/UNIT

BIG BEND 3	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	2010
1. EAF (%)	38.7	92.2	77.1	98.4	97.7	96.9	90.8	82.7	99.3	30.0	70.3	85.9	79.8
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	299.8	672.0	592.7	720.0	744.0	717.8	744.0	638.0	720.0	146.9	533.2	669.1	7,197.5
4. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.1	0.0	0.0	76.1
5. UH	444.2	0.0	150.3	0.0	0.0	2.2	0.0	106.1	0.0	521.0	187.8	74.9	1,486.4
6. POH	0.0	0.0	150.3	0.0	0.0	0.0	0.0	0.0	0.0	521.0	61.1	0.0	732.3
7. FOH	444.2	0.0	0.0	0.0	0.0	2.2	0.0	106.1	0.0	0.0	126.7	74.9	754.1
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. PFOH	299.7	647.7	254.5	26.7	6.7	47.6	269.7	89.8	2.8	0.0	90.3	157.5	1,892.8
10. LR PF (MW)	14.3	29.4	28.3	83.5	145.6	72.6	80.5	43.3	45.4	0.0	47.8	56.4	40.2
11. PMOH	0.0	0.0	0.0	18.1	35.2	22.0	45.4	26.0	21.4	0.0	46.3	16.4	230.8
12. LR PM (MW)	0.0	0.0	0.0	106.5	148.2	172.3	72.2	171.4	84.6	0.0	113.9	134.0	121.1
13. NSC (MW)	365	365	365	365	365	365	365	365	365	365	365	365	365
14. OPR BTU(GBTU)	1,004.2	2,370.5	2,145.2	2,596.0	2,761.4	2,688.8	2,508.9	2,327.3	2,640.7	543.9	1,801.2	2,358.7	25,746.8
15. NET GEN (MWH)	101,928	221,967	201,712	247,900	259,354	247,512	237,116	217,691	256,223	52,005	166,795	223,948	2,434,151
16. ANOHR BTU/KWH	9,852	10,679	10,635	10,472	10,647	10,864	10,581	10,691	10,306	10,458	10,799	10,533	10,577
17. NOF (%)	93.1	90.5	93.2	94.3	95.5	94.5	87.3	93.5	97.5	97.0	85.7	91.7	92.7
18. NPC (MW)	365	365	365	365	365	365	365	365	365	365	365	365	365
19. ANOHR EQUATION	ANOHR = NOF (-11.562) + 11,646.924												

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EXHIBIT NO. _____ (BSB-1)
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ORIGINAL SHEET NO. 8.401.10A
TAMPA ELECTRIC COMPANY

ACTUAL UNIT PERFORMANCE DATA

JANUARY 2010 - DECEMBER 2010

PLANT/UNIT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	2010
1. EAF (%)	94.0	94.1	68.6	0.0	0.0	43.7	83.6	67.7	76.8	98.4	96.7	76.0	66.5
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	743.2	668.7	569.7	0.0	0.0	342.2	628.1	516.1	561.7	744.0	717.5	655.4	6,146.5
4. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. UH	0.9	3.3	173.3	720.0	744.0	377.8	115.9	227.9	158.3	0.0	3.5	88.6	2,613.5
6. POH	0.0	0.0	120.3	720.0	744.0	109.0	0.0	0.0	0.0	0.0	0.0	0.0	1,693.2
7. FOH	0.9	3.3	53.1	0.0	0.0	268.9	115.9	227.9	0.0	0.0	3.5	88.6	762.0
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	158.3	0.0	0.0	0.0	158.3
9. PFOH	711.6	118.2	493.4	0.0	0.0	326.9	114.8	67.0	151.4	67.2	53.1	477.1	2,580.6
10. LR PF (MW)	26.1	132.1	52.0	0.0	0.0	23.2	15.0	79.0	5.4	75.2	38.6	80.7	46.8
11. PMOH	0.0	0.0	0.0	0.0	0.0	12.8	5.0	0.0	12.8	0.0	27.4	0.0	57.9
12. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	310.5	171.5	0.0	231.7	0.0	238.9	0.0	247.3
13. NSC (MW)	427	427	427	432	432	417	417	417	417	417	417	427	423
14. OPR BTU(GBTU)	3,071.6	2,735.5	2,213.6	0.0	0.0	1,409.9	2,509.7	2,104.7	2,389.3	2,927.9	2,751.0	2,417.5	24,530.7
15. NET GEN (MWH)	293,977	263,027	208,781	(60)	0	131,475	252,766	207,939	225,368	294,080	267,282	232,240	2,376,875
16. ANOHR BTU/KWH	10,448	10,400	10,602	0	0	10,724	9,929	10,122	10,602	9,956	10,293	10,409	10,321
17. NOF (%)	92.6	92.1	85.8	0.0	0.0	92.1	96.5	96.6	96.2	94.8	89.3	83.0	91.5
18. NPC (MW)	427	427	427	432	432	417	417	417	417	417	417	427	423
19. ANOHR EQUATION	ANOHR = NOF (-49.970) + 15,083.609												

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ORIGINAL SHEET NO. 8.401.10A
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ACTUAL UNIT PERFORMANCE DATA

JANUARY 2010 - DECEMBER 2010

PLANT/UNIT

POLK 1	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	2010
1. EAF (%)	98.4	40.8	97.7	99.6	97.3	80.1	98.1	80.7	96.7	99.8	89.3	97.3	90.0
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	727.5	203.3	731.9	720.0	726.0	512.1	732.9	591.7	691.9	744.0	628.5	736.9	7,746.5
4. RSH	11.5	104.0	0.0	0.0	0.0	90.9	0.0	45.6	21.8	0.0	26.0	3.1	302.9
5. UH	5.0	364.8	11.1	0.0	18.0	117.0	11.1	106.8	6.3	0.0	66.5	4.1	710.6
6. POH	0.0	364.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.5	0.0	419.2
7. FOH	5.0	0.0	11.1	0.0	18.0	117.0	11.1	1.0	0.0	0.0	2.3	4.1	169.6
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	105.8	6.3	0.0	9.8	0.0	121.8
9. PFOH	30.0	83.6	25.4	14.3	13.5	117.4	16.9	153.4	73.3	7.5	47.7	70.3	653.2
10. LR PF (MW)	49.3	49.3	49.3	49.3	32.1	49.3	43.3	53.1	53.1	53.1	49.3	49.1	50.1
11. PMOH	739.0	371.2	732.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,843.1
12. LR PM (MW)	0.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
13. NSC (MW)	220	220	220	220	220	220	220	220	220	220	220	220	220
14. OPR BTU(GBTU)	1,651.1	385.3	1,624.2	1,565.1	1,630.0	1,095.7	1,629.0	1,093.1	1,479.4	1,634.5	1,378.6	1,560.8	16,726.9
15. NET GEN (MWH)	159,596	32,036	159,426	161,757	161,594	109,433	161,992	106,844	147,229	166,900	135,770	161,979	1,664,556
16. ANOHR BTU/KWH	10,346	12,028	10,188	9,676	10,087	10,013	10,056	10,231	10,048	9,793	10,154	9,636	10,049
17. NOF (%)	99.7	71.6	99.0	102.1	101.2	97.1	100.5	82.1	96.7	102.0	98.2	99.9	97.7
18. NPC (MW)	220	220	220	220	220	220	220	220	220	220	220	220	220
19. ANOHR EQUATION	ANOHR = NOF (-117.876) + 20,910.128												

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TAMPA ELECTRIC COMPANY

ACTUAL UNIT PERFORMANCE DATA

JANUARY 2010 - DECEMBER 2010

PLANT/UNIT

BAYSIDE 1	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	2010
1. EAF (%)	99.4	99.0	68.4	98.2	99.5	98.3	98.7	95.9	99.3	91.1	80.9	99.2	93.9
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	609.5	492.0	450.9	512.2	609.9	597.6	563.4	595.5	587.3	493.7	284.5	448.8	6,245.4
4. RSH	130.0	173.4	57.1	194.7	130.5	110.4	170.7	117.8	127.3	183.8	298.7	289.1	1,983.5
5. UH	4.5	6.6	235.0	13.0	3.6	11.9	9.9	30.7	5.4	66.4	137.7	6.1	531.1
6. POH	0.0	0.0	234.9	0.0	0.0	0.0	0.0	0.0	0.0	66.4	137.7	0.0	439.1
7. FOH	0.6	5.6	0.0	9.0	1.5	0.0	3.9	7.8	0.0	0.0	0.0	6.1	34.6
8. MOH	3.9	1.0	0.1	4.0	2.1	11.9	6.0	22.9	5.4	0.0	0.0	0.0	57.4
9. PFOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. LR PF (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. NSC (MW)	792	792	792	701	701	701	701	701	701	701	701	792	731
14. OPR BTU (GBTU)	2,573.6	1,974.0	1,913.1	1,899.8	2,452.2	2,408.9	2,134.6	2,375.7	2,362.7	1,850.7	1,056.9	1,711.7	24,713.9
15. NET GEN (MWH)	359,858	273,633	263,685	263,150	340,687	330,646	292,238	323,263	327,233	254,704	141,109	233,730	3,403,936
16. ANOHR BTU/KWH	7,152	7,214	7,255	7,219	7,198	7,285	7,304	7,349	7,220	7,266	7,490	7,323	7,260
17. NOF (%)	74.5	70.2	73.8	73.3	79.7	78.9	74.0	77.4	79.5	73.6	70.8	65.8	74.5
18. NPC (MW)	792	792	792	701	701	701	701	701	701	701	701	792	731
19. ANOHR EQUATION	ANOHR = NOF (-4.988) + 7,648.846												

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TAMPA ELECTRIC COMPANY

ACTUAL UNIT PERFORMANCE DATA

JANUARY 2010 - DECEMBER 2010

PLANT/UNIT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	2010
BAYSIDE 2													
1. EAF (%)	99.3	92.7	48.8	97.4	96.9	90.2	98.9	97.7	99.3	100.0	53.6	99.5	89.5
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	608.1	565.5	239.6	533.4	627.5	554.6	574.1	613.0	598.8	579.2	258.2	506.9	6,259.0
4. RSH	131.0	57.7	123.2	167.7	93.0	94.7	161.4	114.1	116.1	164.8	128.2	233.1	1,585.2
5. UH	4.9	48.8	380.2	18.9	23.4	70.7	8.5	16.9	5.2	0.0	334.5	4.0	915.8
6. POH	0.0	48.3	379.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	333.4	0.0	760.7
7. FOH	0.0	0.0	0.3	1.7	0.7	3.4	3.5	0.4	0.0	0.0	1.1	1.8	12.9
8. MOH	4.9	0.6	0.8	17.1	22.7	67.4	5.0	16.5	5.2	0.0	0.0	2.1	142.2
9. PFOH	0.0	87.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	87.6
10. LR PF (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. NSC (MW)	1,047	1,047	1,047	929	929	929	929	929	929	929	929	1,047	968
14. OPR BTU(GBTU)	3,447.7	3,252.5	1,149.6	2,831.5	3,482.4	3,105.0	3,034.2	3,331.1	3,369.3	3,051.5	1,258.0	2,612.4	33,925.0
15. NET GEN (MWH)	471,501	446,977	152,850	383,986	475,536	420,435	408,253	454,247	457,526	412,384	165,353	350,814	4,599,662
16. ANOHR BTU/KWH	7,312	7,277	7,531	7,374	7,323	7,385	7,432	7,333	7,364	7,400	7,608	7,447	7,376
17. NOF (%)	74.1	75.5	60.8	77.5	81.6	81.6	76.5	79.8	82.2	76.6	68.9	66.1	75.9
18. NPC (MW)	1,047	1,047	1,047	929	929	929	929	929	929	929	929	1,047	968
19. ANOHR EQUATION	ANOHR = NOF (-6.070) + 7,834.416												

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