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March 15, 2024

VIA: ELECTRONIC FILING

Mr. Adam J. Teitzman
Commission Clerk
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

Re: Fuel and Purchased Power Cost Recovery Clause with Generating
Performance Incentive Factor; FPSC Docket No. 20240001-EI

Dear Mr. Teitzman:

Attached for filing in the above docket on behalf of Tampa Electric Company are the following:

1. Petition for Approval of Generating Performance Incentive Factor Results for the Twelve Month Period Ending December 2023.
2. Prepared Direct Testimony and Exhibit of Elena Vance regarding Generating Performance Incentive Factor True-Up for the period January 2023 through December 2023.

Thank you for your assistance in connection with this matter.

Sincerely,

A handwritten signature in blue ink that reads 'Malcolm N. Means'.

Malcolm N. Means

MNM/bml
Attachments

cc: All parties of record (w/attachments)

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of the foregoing Petition and Testimony, filed on behalf of Tampa Electric Company, has been furnished by electronic mail on this 15th day of March 2024 to the following:

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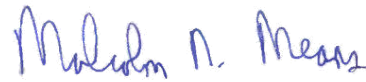
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ATTORNEY

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Fuel and Purchased Power)
Cost Recovery Clause and Generating)
Performance Incentive Factor.)
_____)

DOCKET NO. 20240001-EI
FILED: March 15, 2024

**TAMPA ELECTRIC COMPANY'S PETITION FOR APPROVAL OF
GENERATING PERFORMANCE INCENTIVE FACTOR RESULTS
FOR THE TWELVE-MONTH PERIOD ENDING DECEMBER 2023**

Tampa Electric Company ("Tampa Electric" or "the company") hereby petitions this Commission for approval of the company's results for the twelve-month period ending December 2023. In support of this Petition, Tampa Electric states as follows:

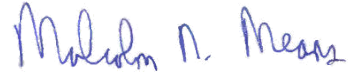
1. By Order No. PSC-2023-0343-FOF-EI, dated November 16, 2023, the Commission approved Tampa Electric's GPIF targets for the period January 2023 through December 2023. The application of the GPIF formula to the performance of the company's GPIF units during that period produces a reward of \$1,830,750. The calculation of the company's GPIF reward is discussed and supported in the prepared direct testimony and exhibit of Tampa Electric witness Elena B. Vance, which are being filed together with this petition and incorporated herein by reference.

2. Tampa Electric is not aware of any disputed issues of material fact relative to the relief requested herein.

WHEREFORE, Tampa Electric respectfully requests the Commission to approve \$1,830,750 as its GPIF reward for the period ending December 2023 and authorize the inclusion of this amount in the calculation of Tampa Electric's fuel factors for the period beginning January 2025.

DATED this 15th day of March 2024.

Respectfully submitted,



Malcolm N. Means

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ATTORNEYS FOR TAMPA ELECTRIC COMPANY



BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 20240001-EI
IN RE: FUEL & PURCHASED POWER COST RECOVERY
AND
CAPACITY COST RECOVERY

GENERATING PERFORMANCE INCENTIVE FACTOR
TRUE-UP
JANUARY 2023 THROUGH DECEMBER 2023

TESTIMONY AND EXHIBIT
OF
ELENA B. VANCE

1 **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

2 **PREPARED DIRECT TESTIMONY**

3 **OF**

4 **ELENA B. VANCE**

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

8
9 **A.** My name is Elena B. Vance. My business address is 702 North
10 Franklin Street, Tampa, Florida 33602. I am employed by Tampa
11 Electric Company ("Tampa Electric" or "company") in the
12 position of Manager, Unit Commitment.

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

16
17 **A.** I received a Bachelor of Science degree in Chemical
18 Engineering from the University of South Florida in 1999 and
19 a Master of Business Administration with a concentration in
20 Finance in 2003 from the University of Tampa. I have
21 accumulated 26 years of experience in the electric industry,
22 with experience in the areas of plant operations, unit
23 commitment and economic dispatch, and resource planning. In
24 my previous role as a Senior Engineer in the Resource
25 Planning Department, I was responsible for long term study

1 analysis and project economic analysis. In my current role
2 as Manager, Unit Commitment, I am responsible for supervising
3 the short-term dispatch of our units, project economic
4 analyses and various unit performance analyses used for long-
5 term forecasting and planned outages.

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 heat rate used to determine the Generating Performance
12 Incentive Factor ("GPIF") for the period January 2023 through
13 December 2023. I will also compare these results to the
14 targets established for the period.

15
16 **Q.** Have you prepared an exhibit to support your testimony?

17
18 **A.** Yes, I prepared Exhibit No. EBV-1, consisting of two
19 documents. Document No. 1, entitled "GPIF Schedules" is
20 consistent with the GPIF Implementation Manual approved by
21 the Florida Public Service Commission ("FPSC" or
22 "Commission"). Document No. 2 provides the company's Actual
23 Unit Performance Data for the 2023 period.

24
25 **Q.** Which generating units on Tampa Electric's system are included

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in the determination of the GPIF?

A. Big Bend Unit 4, Polk Unit 2, and Bayside Units 1 and 2 are included in the calculation of the GPIF.

Q. Have you calculated the results of Tampa Electric's performance under the GPIF during the January 2023 through December 2023 period?

A. Yes, I have. This is shown on Document No. 1, page 4 of 23. Based upon 2.051 Generating Performance Incentive Points ("GPIP"), the result is a reward amount of \$1,830,750 for the period.

Q. Please proceed with your review of the actual results for the January 2023 through December 2023 period.

A. On Document No. 1, page 3 of 23, the actual average common equity for the period is shown on line 14 as \$4,639,319,076. This produces the maximum penalty or reward amount of \$8,924,442 as shown on line 23.

Q. Will you please explain how you arrived at the actual equivalent availability results for the four units included within the GPIF?

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

Q. Are the actual equivalent availability results shown on Document No. 1, page 6 of 23, column 2, directly applicable to the GPIF table?

A. No. Adjustments to actual equivalent availability may be required as noted in Section 4.3.3 of the GPIF Manual. The actual equivalent availability including the required adjustment is shown on Document No. 1, page 6 of 23, column 4. The necessary adjustments as prescribed in the GPIF Manual are further defined by a letter dated October 23, 1981, from Mr. J. H. Hoffsis of the Commission's Staff. The adjustments for each unit are as follows:

Big Bend Unit No. 4

On this unit, 1,656 planned outage hours were originally scheduled for 2023. Actual outage activities required 2,418.2 equivalent planned outage hours. Consequently, the actual equivalent availability of 54.3 percent is adjusted to 60.9

1 percent, as shown on Document No. 1, page 7 of 23.

2
3 **Polk Unit No. 2**

4 On this unit, 333.6 planned outage hours were originally
5 scheduled for 2023. Actual outage activities required 463.9
6 equivalent planned outage hours. Consequently, the actual
7 equivalent availability of 90.8 percent is adjusted to 92.3
8 percent, as shown on Document No. 1, page 8 of 23.

9
10 **Bayside Unit No. 1**

11 On this unit, 463.2 planned outage hours were originally
12 scheduled for 2023. Actual outage activities required 676.8
13 equivalent planned outage hours. Consequently, the actual
14 equivalent availability of 91 percent is adjusted to 93.4
15 percent, as shown on Document No. 1, page 9 of 23.

16
17 **Bayside Unit No. 2**

18 On this unit, 1,905.6 planned outage hours were originally
19 scheduled for 2023. Actual outage activities required 1325.9
20 equivalent planned outage hours. Consequently, the actual
21 equivalent availability of 83.3 percent is adjusted to 76.7
22 percent, as shown on Document No. 1, page 10 of 23.

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

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A. The final adjusted equivalent availabilities for each unit are shown on Document No. 1, page 6 of 23, column 4. This number is incorporated in the respective GPIF table for each unit, shown on pages 18 through 21 of 23. Page 4 of 23 summarizes the weighted equivalent availability points to be awarded or penalized.

Q. Will you please explain the heat rate results relative to the GPIF?

A. The actual heat rate and adjusted actual heat rate for Tampa Electric's four GPIF units are shown on Document No. 1, page 6 of 23. The adjustment was developed based on the guidelines of Section 4.3.16 of the GPIF Manual. This procedure is further defined by a letter dated October 23, 1981, from Mr. J. H. Hoffsis of the FPSC Staff. The final adjusted actual heat rates are also shown on page 5 of 23, column 9. The heat rate value is incorporated in the respective GPIF table for each unit, shown on pages 18 through 21 of 23. Page 4 of 23 summarizes the weighted heat rate points to be awarded or penalized.

Q. What is the overall GPIF for Tampa Electric for the January 2023 through December 2023 period?

1 **A.** This is shown on Document No. 1, page 2 of 23. The weighting
2 factors shown on page 4 of 23, column 3, plus the equivalent
3 availability points and the heat rate points shown on page 4
4 of 23, column 4, are substituted within the equation found on
5 page 23 of 23. The resulting value of 2.051 is in the GPIF
6 table on page 2 of 23, and the reward amount of \$1,830,750 is
7 calculated using linear interpolation.

8

9 **Q.** Are there any other constraints set forth by the Commission
10 regarding the magnitude of incentive dollars?

11

12 **A.** Yes. Incentive dollars are not to exceed 50 percent of fuel
13 savings. Tampa Electric met this constraint, limiting the
14 total potential reward and penalty incentive dollars to
15 \$8,924,442 as shown on Document No. 1, page 3 of 23.

16

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

18

19 **A.** Yes.

20

21

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25

GENERATING PERFORMANCE INCENTIVE FACTOR

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EXHIBIT NO. EBV-1
TAMPA ELECTRIC COMPANY
DOCKET NO. 20240001-EI
GPIF 2023 FINAL TRUE-UP
DOCUMENT NO. 1

EXHIBIT TO THE TESTIMONY OF
ELENA B. VANCE

DOCKET NO. 20240001-EI

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE FACTOR
JANUARY 2023 - DECEMBER 2023
TRUE-UP

DOCUMENT NO. 1
GPIF SCHEDULES

**TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE FACTOR
JANUARY 2023 - DECEMBER 2023
TRUE-UP
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**TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE FACTOR
REWARD / PENALTY TABLE - ACTUAL
JANUARY 2023 - DECEMBER 2023**

GENERATING PERFORMANCE INCENTIVE POINTS (GPIP)	FUEL SAVINGS / (LOSS) (\$000)	GENERATING PERFORMANCE INCENTIVE FACTOR (\$000)
+10	17,848.9	8,924.4
+9	16,064.0	8,032.0
+8	14,279.1	7,139.6
+7	12,494.2	6,247.1
+6	10,709.3	5,354.7
+5	8,924.4	4,462.2
+4	7,139.6	3,569.8
+3	5,354.7	2,677.3
+2	3,569.8	1,784.9
← GPI POINTS 2.051 →		REWARD DOLLARS \$1,830,750 →
+1	1,784.9	892.4
0	0.0	0.0
-1	(2,384.8)	(892.4)
-2	(4,769.7)	(1,784.9)
-3	(7,154.5)	(2,677.3)
-4	(9,539.3)	(3,569.8)
-5	(11,924.1)	(4,462.2)
-6	(14,309.0)	(5,354.7)
-7	(16,693.8)	(6,247.1)
-8	(19,078.6)	(7,139.6)
-9	(21,463.4)	(8,032.0)
-10	(23,848.3)	(8,924.4)

**TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE FACTOR
CALCULATION OF MAXIMUM ALLOWED INCENTIVE DOLLARS - ACTUAL
JANUARY 2023 - DECEMBER 2023**

Line 1	Beginning of period balance of common equity:		\$	4,430,112,647	
	End of month common equity:				
Line 2	Month of January	2023	\$	4,462,340,705	
Line 3	Month of February	2023	\$	4,492,794,101	
Line 4	Month of March	2023	\$	4,518,244,317	
Line 5	Month of April	2023	\$	4,553,098,580	
Line 6	Month of May	2023	\$	4,617,659,612	
Line 7	Month of June	2023	\$	4,670,381,935	
Line 8	Month of July	2023	\$	4,727,599,561	
Line 9	Month of August	2023	\$	4,758,073,733	
Line 10	Month of September	2023	\$	4,808,817,549	
Line 11	Month of October	2023	\$	4,846,273,108	
Line 12	Month of November	2023	\$	4,702,273,125	
Line 13	Month of December	2023	\$	4,723,479,016	
Line 14	(Summation of line 1 through line 13 divided by 13)		\$	4,639,319,076	
Line 15	25 Basis points			0.0025	
Line 16	Revenue Expansion Factor			74.45%	
Line 17	Maximum Allowed Incentive Dollars (line 14 times line 15 divided by line 16)		\$	15,578,235	
Line 18	Jurisdictional Sales			20,770,815	MWH
Line 19	Total Sales			20,770,815	MWH
Line 20	Jurisdictional Separation Factor (line 18 divided by line 19)			100.00%	
Line 21	Maximum Allowed Jurisdictional Incentive Dollars (line 17 times line 20)		\$	15,578,235	
Line 22	Incentive Cap (50% of projected fuel savings at 10 GPIF-Point level from Sheet No. 3.515)		\$	8,924,442	
Line 23	Maximum Allowed GPIF Reward (At 10 GPIF-Point Level; the lesser of line 21 and line 22)		\$	8,924,442	

**TAMPA ELECTRIC COMPANY
CALCULATION OF SYSTEM GPIF POINTS - ACTUAL
JANUARY 2023 - DECEMBER 2023**

<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 4	60.9%	EAF	5.66%	-0.300	-0.017
POLK 2	92.3%	EAF	7.87%	10.000	0.787
BAYSIDE 1	93.4%	EAF	5.94%	10.000	0.594
BAYSIDE 2	76.7%	EAF	1.13%	9.078	0.103
BIG BEND 4	10,565	ANOHR	26.52%	2.128	0.565
POLK 2	7,276	ANOHR	28.52%	0.000	0.000
BAYSIDE 1	7,454	ANOHR	14.60%	0.000	0.000
BAYSIDE 2	8,200	ANOHR	<u>9.76%</u>	0.213	<u>0.021</u>
			100.00%		2.051

GPIF REWARD \$ 1,830,750

**TAMPA ELECTRIC COMPANY
GPIF TARGET AND RANGE SUMMARY**

EQUIVALENT AVAILABILITY (%)

<u>PLANT / UNIT</u>	<u>WEIGHTING FACTOR (%)</u>	<u>EAFF TARGET (%)</u>	<u>EAFF MAX. (%)</u>	<u>RANGE MIN. (%)</u>	<u>MAX. FUEL SAVINGS (\$000)</u>	<u>MAX. FUEL LOSS (\$000)</u>	<u>EAFF ADJUSTED ACTUAL (%)</u>	<u>EST. FUEL SAVINGS/ LOSS (\$000)</u>
BIG BEND 4	5.66%	61.2	66.1	51.4	1,009.8	(3,719.4)	60.9%	(111.5)
POLK 2	7.87%	90.9	92.1	88.4	1,404.2	(699.6)	92.3%	1,404.2
BAYSIDE 1	5.94%	90.0	91.2	87.6	1,059.4	(1,412.7)	93.4%	1,059.4
BAYSIDE 2	<u>1.13%</u>	75.2	76.9	71.7	<u>202.1</u>	<u>(3,843.1)</u>	76.7%	183.5
GPIF SYSTEM	20.59%				3,675.6	(9,674.9)		

AVERAGE NET OPERATING HEAT RATE (Btu/kwh)

<u>PLANT / UNIT</u>	<u>WEIGHTING FACTOR (%)</u>	<u>TARGET ANOHR (Btu/kwh) NOF (%)</u>		<u>ANOHR TARGET RANGE MIN. MAX.</u>		<u>MAX. FUEL SAVINGS (\$000)</u>	<u>MAX. FUEL LOSS (\$000)</u>	<u>ACTUAL ADJUSTED ANOHR</u>	<u>EST. FUEL SAVINGS/ LOSS (\$000)</u>
BIG BEND 4	26.52%	10,777	67.0	10,058	11,497	4,734.2	(4,734.2)	10,565	1,007.6
POLK 2	28.52%	7,279	46.5	7,088	7,470	5,090.3	(5,090.3)	7,276	0.0
BAYSIDE 1	14.60%	7,481	43.7	7,307	7,655	2,605.9	(2,605.9)	7,454	0.0
BAYSIDE 2	<u>9.76%</u>	8,280	19.9	7,977	8,582	<u>1,742.9</u>	<u>(1,742.9)</u>	8,200	37.1
GPIF SYSTEM	79.41%					14,173.3	(14,173.3)		

**TAMPA ELECTRIC COMPANY
UNIT PERFORMANCE DATA - ACTUAL
JANUARY 2023 - DECEMBER 2023**

<u>PLANT / UNIT</u>	<u>ACTUAL EAF (%)</u>	<u>ADJUSTMENTS (1) TO EAF (%)</u>	<u>EAF ADJUSTED ACTUAL (%)</u>
BIG BEND 4	54.3	6.6	60.9
POLK 2	90.8	1.5	92.3
BAYSIDE 1	91.0	2.4	93.4
BAYSIDE 2	83.3	-6.6	76.7

<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 4	10,850	-285	10,565
POLK 2	7,117	159	7,276
BAYSIDE 1	7,426	28	7,454
BAYSIDE 2	7,502	698	8,200

(1) Documentation of adjustments to Actual EAF on pages 7 - 10

(2) Documentation of adjustments to Actual ANOHR on pages 11 - 14

**TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO PERFORMANCE
BIG BEND UNIT NO. 4
JANUARY 2023 - DECEMBER 2023**

WEIGHTING FACTOR = 5.66%

	<u>12 MONTH TARGET</u>	<u>12 MONTH ACTUAL PERFORMANCE</u>	<u>ADJUSTED ACTUAL PERFORMANCE</u>
PH	8,760.0	8,760.0	8,760.0
EAF	61.2	54.3	60.9
POH + EPOH	1,656.0	2,418.2	1,656.0
FOH + EFOH	1,048.8	852.3	954.7
MOH + EMOH	694.5	728.5	816.1
POF	18.9	27.6	18.9
EFOF	12.0	9.7	10.9
EMOF	7.9	8.3	9.3
	-0.300	EQUIVALENT AVAILABILITY POINTS	

ADJUSTMENTS TO ACTUAL EAF FOR COMPARISON

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

$$\frac{8760 - 1656}{8760 - 2418.2} \times (852.3 + 728.5) = 1,770.8$$

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

$$100 - 18.9 - \frac{1,770.8}{8,760.0} \times 100 = 60.9$$

PH = PERIOD HOURS
EAF = EQUIVALENT AVAILABILITY FACTOR
POH = PLANNED OUTAGE HOURS
EPOH = EQUIVALENT 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. 2
JANUARY 2023 - DECEMBER 2023**

WEIGHTING FACTOR = 7.87%

	<u>12 MONTH TARGET</u>	<u>12 MONTH ACTUAL PERFORMANCE</u>	<u>ADJUSTED ACTUAL PERFORMANCE</u>
PH	8,760.0	8,760.0	8,760.0
EAF	90.9	90.8	92.3
POH + EPOH	333.6	463.9	333.6
FOH + EFOH	232.2	160.4	162.9
MOH + EMOH	232.4	179.4	182.2
POF	3.8	5.3	3.8
EFOF	2.7	1.8	1.9
EMOF	2.7	2.0	2.1
	10.000	EQUIVALENT AVAILABILITY POINTS	

ADJUSTMENTS TO ACTUAL EAF FOR COMPARISON

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

$$\frac{8760 - 333.6}{8760 - 463.9} \times (160.4 + 179.4) = 345.1$$

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

$$100 - 3.8 - \frac{345.1}{8,760.0} \times 100 = 92.3$$

- PH = PERIOD HOURS
- EAF = EQUIVALENT AVAILABILITY FACTOR
- POH = PLANNED OUTAGE HOURS
- EPOH = EQUIVALENT 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 2023 - DECEMBER 2023**

WEIGHTING FACTOR = 5.94%

	<u>12 MONTH TARGET</u>	<u>12 MONTH ACTUAL PERFORMANCE</u>	<u>ADJUSTED ACTUAL PERFORMANCE</u>
PH	8,760.0	8,760.0	8,760.0
EAF	90.0	91.0	93.4
POH + EPOH	463.2	676.8	463.2
FOH + EFOH	188.4	41.0	42.1
MOH + EMOH	223.2	71.9	73.8
POF	5.3	7.7	5.3
EFOF	2.2	0.5	0.5
EMOF	2.5	0.8	0.8
	10.000	EQUIVALENT AVAILABILITY POINTS	

ADJUSTMENTS TO ACTUAL EAF FOR COMPARISON

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

$$\frac{8760 - 463.2}{8760 - 676.8} \times (41 + 71.9) = 115.9$$

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

$$100 - 5.3 - \frac{115.9}{8,760.0} \times 100 = 93.4$$

- PH = PERIOD HOURS
- EAF = EQUIVALENT AVAILABILITY FACTOR
- POH = PLANNED OUTAGE HOURS
- EPOH = EQUIVALENT 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 2023 - DECEMBER 2023**

WEIGHTING FACTOR = 1.13%

	<u>12 MONTH TARGET</u>	<u>12 MONTH ACTUAL PERFORMANCE</u>	<u>ADJUSTED ACTUAL PERFORMANCE</u>
PH	8,760.0	8,760.0	8,760.0
EAF	75.2	83.3	76.7
POH + EPOH	1,905.6	1,325.9	1,905.6
FOH + EFOH	50.0	69.8	64.4
MOH + EMOH	220.8	68.9	63.5
POF	21.8	15.1	21.8
EFOF	0.6	0.8	0.7
EMOF	2.5	0.8	0.7
	9.078	EQUIVALENT AVAILABILITY POINTS	

ADJUSTMENTS TO ACTUAL EAF FOR COMPARISON

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

$$\frac{8760 - 1905.6}{8760 - 1325.9} \times (69.8 + 68.9) = 127.9$$

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

$$100 - 21.8 - \frac{127.9}{8,760.0} \times 100 = 76.7$$

- PH = PERIOD HOURS
- EAF = EQUIVALENT AVAILABILITY FACTOR
- POH = PLANNED OUTAGE HOURS
- EPOH = EQUIVALENT 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. 4
JANUARY 2023 - DECEMBER 2023**

WEIGHTING FACTOR = 26.52%

	<u>12 MONTH TARGET</u>	<u>12 MONTH ACTUAL PERFORMANCE</u>
ANOHR (Btu/kwh)	10,777	10,850
NET GENERATION (GWH)	1,412.5	1,033.0
OPERATING BTU (10 ⁹)	15,735.6	11,207.9
NET OUTPUT FACTOR	67.0	55.7

2.128 HEAT RATE POINTS

ADJUSTMENTS TO ACTUAL HEAT RATE FOR COMPARISON

CURRENT EQUATION: $NOF * (-25.15) + 12462.6 = ANOHR$

$$55.7 * (-25.15) + 12462.6 = 11,062$$

$$10,850 - 11,062 = -212$$

$$10,777 + (-212) = 10,565 \leftarrow \text{ADJUSTED ACTUAL HEAT RATE AT TARGET NOF}$$

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

**TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO HEAT RATE
POLK UNIT NO. 2
JANUARY 2023 - DECEMBER 2023**

WEIGHTING FACTOR = 28.52%

	<u>12 MONTH TARGET</u>	<u>12 MONTH ACTUAL PERFORMANCE</u>
ANOHR (Btu/kwh)	7,279	7,117
NET GENERATION (GWH)	4,121.4	5,705.7
OPERATING BTU (10 ⁹)	29,128.1	40,610.0
NET OUTPUT FACTOR	46.5	63.2

0.000 HEAT RATE POINTS

ADJUSTMENTS TO ACTUAL HEAT RATE FOR COMPARISON

CURRENT EQUATION: $\text{NOF} * (-9.48) + 7719.89 = \text{ANOHR}$

$$63.2 * (-9.48) + 7719.89 = 7,121$$

$$7,117 - 7,121 = -3$$

$$7,279 + (-3) = 7,276 \leftarrow \text{ADJUSTED ACTUAL HEAT RATE AT TARGET NOF}$$

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

**TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO HEAT RATE
BAYSIDE UNIT NO. 1
JANUARY 2023 - DECEMBER 2023**

WEIGHTING FACTOR = 14.60%

	<u>12 MONTH TARGET</u>	<u>12 MONTH ACTUAL PERFORMANCE</u>
ANOHR (Btu/kwh)	7,481	7,426
NET GENERATION (GWH)	2,518.4	3,158.5
OPERATING BTU (10 ⁹)	19,297.9	23,454.1
NET OUTPUT FACTOR	43.7	51.0

0.000 HEAT RATE POINTS

ADJUSTMENTS TO ACTUAL HEAT RATE FOR COMPARISON

CURRENT EQUATION: $NOF * (-3.81) + 7647.34 = ANOHR$

$$51 * (-3.81) + 7647.34 = 7,453$$

$$7,426 - 7,453 = -27$$

$$7,481 + -27 = 7,454 \leftarrow \text{ADJUSTED ACTUAL HEAT RATE AT TARGET NOF}$$

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

**TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO HEAT RATE
BAYSIDE UNIT NO. 2
JANUARY 2023 - DECEMBER 2023**

WEIGHTING FACTOR = 9.76%

	<u>12 MONTH TARGET</u>	<u>12 MONTH ACTUAL PERFORMANCE</u>
ANOHR (Btu/kwh)	8,280	7,502
NET GENERATION (GWH)	1,269.7	2,931.1
OPERATING BTU (10 ⁹)	11,187.1	21,988.1
NET OUTPUT FACTOR	19.9	53.1

0.213 HEAT RATE POINTS

ADJUSTMENTS TO ACTUAL HEAT RATE FOR COMPARISON

CURRENT EQUATION: $NOF * (-21.06) + 8699.38 = ANOHR$

$$53.1 * (-21.06) + 8699.38 = 7,581$$

$$7,502 - 7,581 = -80$$

$$8,280 + (-80) = 8,200 \leftarrow \text{ADJUSTED ACTUAL HEAT RATE AT TARGET NOF}$$

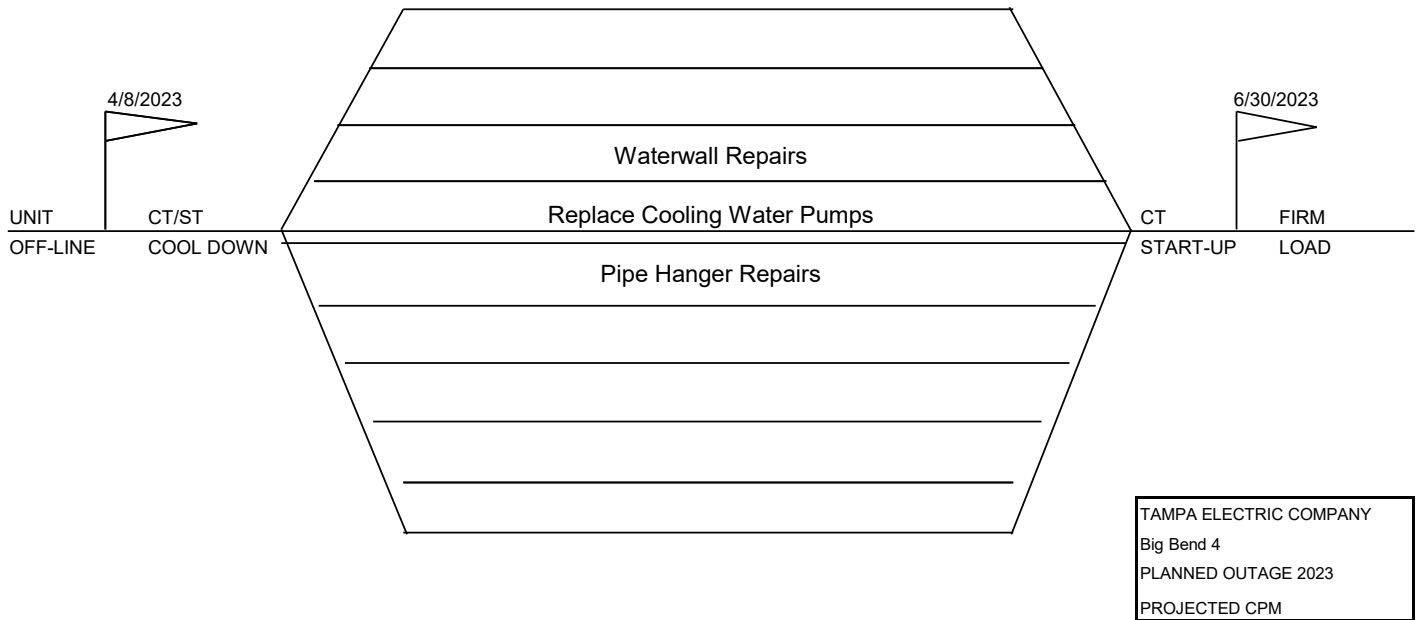
ANOHR = AVERAGE NET OPERATING HEAT RATE
NOF = NET OPERATING FACTOR

**TAMPA ELECTRIC COMPANY
PLANNED OUTAGE SCHEDULE (ACTUAL)
GPIF UNITS
JANUARY 2023 - DECEMBER 2023**

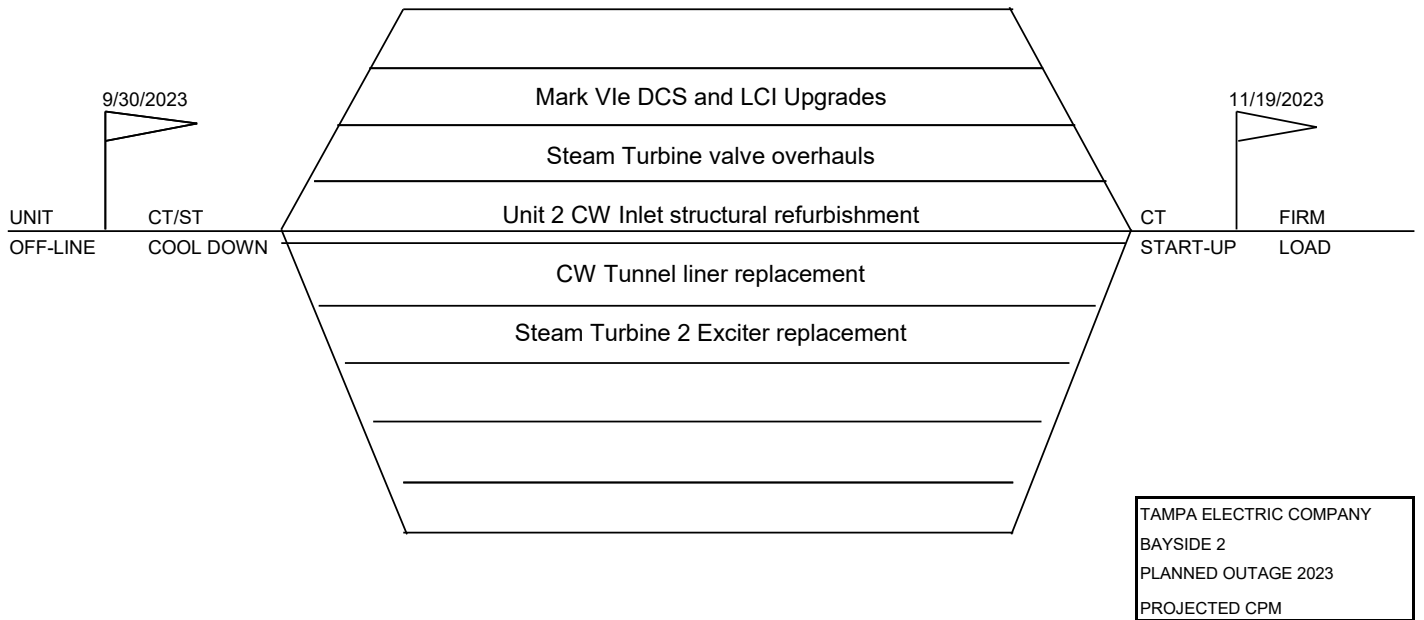
PLANT / UNIT	PLANNED OUTAGE DATES	OUTAGE DESCRIPTION
+ BIG BEND 4	Apr 08 - Jun 30	Waterwall, Replace Cooling Water Pumps, Pipe Hangers
	Oct 18 - Nov 05	Cleanup Outage
POLK 2	Mar 04 - Mar 14	Combined Cycle Planned Outage
	Sep 03 - Sep 13	Combined Cycle Planned Outage
BAYSIDE 1	Mar 15 - Mar 22	Combined Cycle Planned Outage
	Sep 16 - Sep 28	Combined Cycle Planned Outage
	Nov 08 - Nov 12	Combined Plant Outage
+ BAYSIDE 2	Sep 30 - Nov 19	Mark Vie DCS and LCI Upgrades Steam Turbine valve overhauls Unit 2 CW Inlet structural refurbishment CW Tunnel liner replacement Steam Turbine 2 Exciter replacement

+ These units have CPM included. 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 2023 - DECEMBER 2023**



**TAMPA ELECTRIC COMPANY
CRITICAL PATH METHOD DIAGRAMS
GPIF UNITS > FOUR WEEKS
JANUARY 2023 - DECEMBER 2023**



TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE POINTS TABLE
JANUARY 2023 - DECEMBER 2023

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	1,009.8	66.1	+10	4,734.2	10,058
+9	908.8	65.6	+9	4,260.8	10,122
+8	807.9	65.1	+8	3,787.4	10,186
+7	706.9	64.6	+7	3,314.0	10,251
+6	605.9	64.2	+6	2,840.5	10,315
+5	504.9	63.7	+5	2,367.1	10,380
+4	403.9	63.2	+4	1,893.7	10,444
+3	302.9	62.7	+3	1,420.3	10,509
+2	202.0	62.2	+2	946.8	10,573
+1	101.0	61.7	+1	473.4	10,638
0	0.0	61.2	0	0.0	10,702
-1	(371.9)	60.2	-1	(473.4)	10,777
-2	(743.9)	59.2	-2	(946.8)	10,852
-3	(1,115.8)	58.2	-3	(1,420.3)	10,917
-4	(1,487.8)	57.3	-4	(1,893.7)	10,981
-5	(1,859.7)	56.3	-5	(2,367.1)	11,046
-6	(2,231.7)	55.3	-6	(2,840.5)	11,110
-7	(2,603.6)	54.3	-7	(3,314.0)	11,175
-8	(2,975.6)	53.3	-8	(3,787.4)	11,239
-9	(3,347.5)	52.3	-9	(4,260.8)	11,303
-10	(3,719.4)	51.4	-10	(4,734.2)	11,368
-10	(3,719.4)	51.4	-10	(4,734.2)	11,497

EAF
POINTS
-0.300

Adjusted
EAF
60.9

AHR
POINTS
2.128

Adjusted
ANOHR
10,565

Weighting Factor =

5.66%

Weighting Factor =

26.52%

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE POINTS TABLE
JANUARY 2023 - DECEMBER 2023

POLK 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 ← EAFF POINTS 10.000	1,404.2	Adjusted EAFF 92.3 →	92.1	+10	5,090.3	7,088
+9	1,263.8		92.0	+9	4,581.3	7,100
+8	1,123.4		91.9	+8	4,072.3	7,111
+7	983.0		91.8	+7	3,563.2	7,123
+6	842.5		91.6	+6	3,054.2	7,134
+5	702.1		91.5	+5	2,545.2	7,146
+4	561.7		91.4	+4	2,036.1	7,158
+3	421.3		91.3	+3	1,527.1	7,169
+2	280.8		91.1	+2	1,018.1	7,181
+1	140.4		91.0	+1	509.0	7,193
						7,204
0	0.0	90.9	0 ← AHR POINTS 0.000	0.0	Adjusted ANOHR 7,276 →	7,279
						7,354
-1	(70.0)	90.6	-1	(509.0)		7,366
-2	(139.9)	90.4	-2	(1,018.1)		7,377
-3	(209.9)	90.1	-3	(1,527.1)		7,389
-4	(279.8)	89.9	-4	(2,036.1)		7,401
-5	(349.8)	89.6	-5	(2,545.2)		7,412
-6	(419.8)	89.4	-6	(3,054.2)		7,424
-7	(489.7)	89.1	-7	(3,563.2)		7,436
-8	(559.7)	88.9	-8	(4,072.3)		7,447
-9	(629.7)	88.6	-9	(4,581.3)		7,459
-10	(699.6)	88.4	-10	(5,090.3)		7,470

Weighting Factor =

7.87%

Weighting Factor =

28.52%

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE POINTS TABLE
JANUARY 2023 - DECEMBER 2023

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	1,059.4	91.2	+10	2,605.9	7,307
+9	953.4	91.1	+9	2,345.3	7,316
+8	847.5	91.0	+8	2,084.7	7,326
+7	741.6	90.9	+7	1,824.1	7,336
+6	635.6	90.7	+6	1,563.5	7,346
+5	529.7	90.6	+5	1,302.9	7,356
+4	423.7	90.5	+4	1,042.4	7,366
+3	317.8	90.4	+3	781.8	7,376
+2	211.9	90.3	+2	521.2	7,386
+1	105.9	90.1	+1	260.6	7,396
0	0.0	90.0	0	0.0	7,406
-1	(141.3)	89.8	-1	(260.6)	7,481
-2	(282.5)	89.5	-2	(521.2)	7,556
-3	(423.8)	89.3	-3	(781.8)	7,566
-4	(565.1)	89.1	-4	(1,042.4)	7,576
-5	(706.4)	88.8	-5	(1,302.9)	7,586
-6	(847.6)	88.6	-6	(1,563.5)	7,596
-7	(988.9)	88.3	-7	(1,824.1)	7,606
-8	(1,130.2)	88.1	-8	(2,084.7)	7,616
-9	(1,271.5)	87.9	-9	(2,345.3)	7,626
-10	(1,412.7)	87.6	-10	(2,605.9)	7,636

Weighting Factor =

5.94%

Weighting Factor =

14.60%

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE POINTS TABLE
JANUARY 2023 - DECEMBER 2023

BAYSIDE 2

<u>EQUIVALENT AVAILABILITY POINTS</u>	<u>FUEL SAVINGS / (LOSS) (\$000)</u>	<u>ADJUSTED ACTUAL EQUIVALENT AVAILABILITY</u>	<u>AVERAGE HEAT RATE POINTS</u>	<u>FUEL SAVINGS / (LOSS) (\$000)</u>	<u>ADJUSTED ACTUAL AVERAGE HEAT RATE</u>
+10	202.1	76.9	+10	1,742.9	7,977
+9	181.9	76.7	+9	1,568.6	8,000
+8	161.7	76.5	+8	1,394.3	8,023
+7	141.5	76.3	+7	1,220.0	8,046
+6	121.3	76.2	+6	1,045.7	8,068
+5	101.1	76.0	+5	871.5	8,091
+4	80.8	75.8	+4	697.2	8,114
+3	60.6	75.7	+3	522.9	8,137
+2	40.4	75.5	+2	348.6	8,159
+1	20.2	75.3	+1	174.3	8,182
0	0.0	75.2	0	0.0	8,280
-1	(384.3)	74.8	-1	(174.3)	8,378
-2	(768.6)	74.5	-2	(348.6)	8,400
-3	(1,152.9)	74.1	-3	(522.9)	8,423
-4	(1,537.2)	73.8	-4	(697.2)	8,446
-5	(1,921.6)	73.4	-5	(871.5)	8,469
-6	(2,305.9)	73.1	-6	(1,045.7)	8,491
-7	(2,690.2)	72.8	-7	(1,220.0)	8,514
-8	(3,074.5)	72.4	-8	(1,394.3)	8,537
-9	(3,458.8)	72.1	-9	(1,568.6)	8,560
-10	(3,843.1)	71.7	-10	(1,742.9)	8,582

Weighting Factor =

1.13%

Weighting Factor =

9.76%

**TAMPA ELECTRIC COMPANY
COMPARISON OF GPIF TARGETS VS ACTUAL PERFORMANCE**

EQUIVALENT AVAILABILITY (%)

PLANT / UNIT	TARGET WEIGHTING FACTOR (%)	NORMALIZED WEIGHTING FACTOR	TARGET PERIOD JAN 23 - DEC 23			ACTUAL PERFORMANCE JAN 23 - DEC 23		
			POF	EUOF	EUOR	POF	EUOF	EUOR
BIG BEND 4	5.66%	27.5%	18.9	19.9	24.5	27.6	18.0	24.9
POLK 2	7.87%	38.2%	3.8	5.3	5.5	5.3	3.9	4.1
BAYSIDE 1	5.94%	28.8%	5.3	4.7	5.0	7.7	1.3	1.4
BAYSIDE 2	1.13%	5.5%	21.8	3.1	4.0	15.1	1.6	1.9
GPIF SYSTEM	20.6%	100.0%	9.4	9.0	10.5	12.7	6.9	8.9
GPIF SYSTEM WEIGHTED EQUIVALENT AVAILABILITY (%)			<u>81.6</u>			<u>80.4</u>		
			3 PERIOD AVERAGE			3 PERIOD AVERAGE		
			<u>POF EUOF EUOR</u>			<u>EAF</u>		
			12.7 6.9 8.9			80.4		

AVERAGE NET OPERATING HEAT RATE (Btu/kwh)

PLANT / UNIT	TARGET WEIGHTING FACTOR (%)	NORMALIZED WEIGHTING FACTOR	TARGET	ADJUSTED
			HEAT RATE JAN 23 - DEC 23	ACTUAL HEAT RATE JAN 23 - DEC 23
BIG BEND 4	26.52%	33.4%	10,777	10,565
POLK 2	28.52%	35.9%	7,279	7,276
BAYSIDE 1	14.60%	18.4%	7,481	7,454
BAYSIDE 2	9.76%	12.3%	8,280	8,200
GPIF SYSTEM	79.4%	100.0%		
GPIF SYSTEM WEIGHTED AVERAGE HEAT RATE (Btu/kwh)			<u>8,608</u>	<u>8,521</u>

**TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE POINTS CALCULATION
JANUARY 2023 - DECEMBER 2023**

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> =	1.13%	*	(BAY 2 EAP)	+	7.87%	*	(PK 2 EAP)	+	5.94%	*	(BAY 1 EAP)	
	+	14.60%	*	(BAY 1 AHRP)	+	9.76%	*	(BAY 2 AHRP)	+	28.52%	*	(PK 2 AHRP)
	+	5.66%	*	(BB 4 EAP)				+	26.52%	*	(BB 4 AHRP)	

<i>GPIP</i> =	1.13%	*	9.078	+	7.87%	*	10.000	+	5.94%	*	10.000	
	+	14.60%	*	0.000	+	9.76%	*	0.213	+	28.52%	*	0.000
	+	5.66%	*	-0.300				+	26.52%	*	2.128	

<i>GPIP</i> =	0.103	+	0.787	+	0.594	
	+	0.000	+	0.021	+	0.000
	+	-0.017	+	0.000	+	0.565

GPIP = 2.051 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 = \$1,830,750

EXHIBIT NO. EBV-1
TAMPA ELECTRIC COMPANY
DOCKET NO. 20240001-EI
GPIF 2023 FINAL TRUE-UP
DOCUMENT NO. 2

EXHIBIT TO THE TESTIMONY OF
ELENA B. VANCE

DOCKET NO. 20240001-EI

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE FACTOR
JANUARY 2023 - DECEMBER 2023
TRUE-UP

DOCUMENT NO. 2
ACTUAL UNIT PERFORMANCE DATA

ORIGINAL SHEET NO. 8.401.19A
TAMPA ELECTRIC COMPANY

ACTUAL UNIT PERFORMANCE DATA

JANUARY 2023 - DECEMBER 2023

PLANT/UNIT		MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD	
BIG BEND 4		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	2023
1. Equivalent Availability Factor (%)	EAF	72.7	96.7	84.8	22.4	0.0	0.0	75.8	51.9	46.5	34.0	68.9	99.7	54.3
2. Period Hours	PH	744.0	672.0	743.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	721.0	744.0	8,760.0
3. Service Hours	SH	86.1	338.3	704.3	169.6	0.0	0.0	600.2	540.9	447.3	415.6	498.8	557.1	4,358.2
4. Reserve Shutdown Hours	RSH	473.0	311.5	1.0	0.0	0.0	0.0	0.0	0.0	26.8	0.0	0.0	184.3	996.6
5. Unavailable Hours	UH	185.0	22.2	38.7	550.5	744.0	720.0	143.8	203.1	245.9	328.4	222.2	2.6	3,406.4
6. Planned Outage Hours	POH	0.0	0.0	0.0	550.5	744.0	682.1	0.0	0.0	0.0	320.7	120.9	0.0	2,418.2
7. Forced Outage Hours	FOH	0.0	22.2	38.7	0.0	0.0	37.9	71.7	0.0	113.2	7.7	1.8	2.6	295.8
8. Maintenance Outage Hours	MOH	185.0	0.0	0.0	0.0	0.0	0.0	72.1	203.1	132.8	0.0	99.6	0.0	692.6
9a. Partial Planned Outage Hours	PPOH	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
9b. Load Reduction Partial Planned (MW)	LRPP	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
10a. Partial Forced Outage Hours	PFOH	86.1	0.0	334.3	169.6	0.0	0.0	0.0	398.5	454.7	695.3	5.1	0.0	2,143.6
10b. Load Reduction Partial Forced (MW)	LRPF	90.0	0.0	96.3	20.0	0.0	0.0	0.0	164.0	129.4	98.7	104.9	0.0	110.4
11a. Partial Maintenance Outage Hours	PMOH	0.0	0.0	0.0	0.0	0.0	0.0	190.8	0.0	0.0	0.0	0.0	0.0	190.8
11b. Load Reduction Partial Maintenance (MW)	LRPM	0.0	0.0	0.0	0.0	0.0	0.0	80.0	0.0	0.0	0.0	0.0	0.0	80.0
12. Net Summer Continuous Rating (MW)	NSC	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0
13. Operating British Thermal Units (GBTU)	OPR BTU	246.7	763.3	2,009.9	487.9	0.0	0.0	1,392.4	1,313.6	1,266.7	948.7	1,388.0	1,390.7	11,207.9
14. Net Generation (MWH)	NETGEN	23,309.0	66,583.0	178,048.0	42,597.0	0.0	0.0	116,615.0	121,341.0	116,303.0	85,008.0	135,768.4	147,393.8	1,032,966.2
15. Avg. Net Operating Heat Rate (BTU/KWH)	ANOHR	10,583.0	11,464.0	11,288.0	11,455.0	0.0	0.0	11,940.0	10,826.0	10,891.0	11,160.0	10,223.0	9,436.0	10,850.2
16. Net Output Factor (%)	NOF	62.7	45.6	58.5	59.5	0.0	0.0	46.0	53.2	61.6	48.5	64.5	61.2	55.7
17. Net Period Continuous Rating (MW)	NPC	432.0	432.0	432.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0	432.0	425.3
18. Avg. Net Operating Heat Rate Equation		ANOHR = NOF (-25.146) + 12,463												

TAMPA ELECTRIC COMPANY
ACTUAL UNIT PERFORMANCE DATA
JANUARY 2023 - DECEMBER 2023

PLANT/UNIT		MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
POLK 2		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	2023
1. Equivalent Availability Factor (%)	EAF	86.4	99.7	72.1	88.9	97.3	93.6	99.1	98.9	73.8	98.3	97.5	85.0	90.8
2. Period Hours	PH	744.0	672.0	743.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	721.0	744.0	8,760.0
3. Service Hours	SH	663.1	672.0	517.2	720.0	744.0	720.0	739.1	744.0	456.1	744.0	694.3	744.0	8,157.8
4. Reserve Shutdown Hours	RSH	0.0	0.0	45.1	0.0	0.0	0.0	0.7	0.0	82.5	0.0	10.0	0.0	138.3
5. Unavailable Hours	UH	94.3	0.0	181.7	44.5	11.4	25.8	4.2	4.4	181.4	5.5	15.7	65.7	634.6
6. Planned Outage Hours	POH	25.9	0.0	180.4	25.5	0.0	0.0	0.0	0.3	155.7	0.0	0.0	51.2	439.0
7. Forced Outage Hours	FOH	43.7	0.0	0.0	4.1	8.7	0.0	2.1	4.1	25.7	2.4	4.1	14.5	109.4
8. Maintenance Outage Hours	MOH	24.7	0.0	1.4	14.9	2.7	25.8	2.1	0.0	0.0	3.2	11.6	0.0	86.4
9a. Partial Planned Outage Hours	PPOH	0.0	0.0	235.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	235.1
9b. Load Reduction Partial Planned (MW)	LRPP	0.0	0.0	127.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	127.0
10a. Partial Forced Outage Hours	PFOH	108.7	22.5	2.4	29.8	54.3	3.3	10.5	32.2	64.0	38.2	23.3	94.3	483.5
10b. Load Reduction Partial Forced (MW)	LRPF	75.0	114.9	138.8	120.0	134.6	115.6	119.2	119.3	119.3	123.8	119.8	147.3	116.8
11a. Partial Maintenance Outage Hours	PMOH	0.0	0.0	0.0	278.0	19.3	182.6	14.9	0.0	0.0	22.6	0.0	171.2	688.5
11b. Load Reduction Partial Maintenance (MW)	LRPM	0.0	0.0	0.0	123.5	115.3	115.3	119.4	0.0	0.0	119.8	0.0	238.9	149.6
12. Net Summer Continuous Rating (MW)	NSC	1,061.0	1,061.0	1,061.0	1,061.0	1,061.0	1,061.0	1,061.0	1,061.0	1,061.0	1,061.0	1,061.0	1,061.0	1,061.0
13. Operating British Thermal Units (GBTU)	OPR BTU	3,082.0	2,811.1	2,790.7	3,957.5	4,280.2	3,871.9	4,061.3	4,065.4	2,142.0	3,536.3	2,985.0	3,026.7	40,610.0
14. Net Generation (MWH)	NETGEN	426,079.0	395,062.0	376,172.0	557,049.0	633,320.0	552,932.0	574,417.0	574,036.0	280,259.0	498,480.0	414,442.0	423,434.0	5,705,682.0
15. Avg. Net Operating Heat Rate (BTU/KWH)	ANOHR	7,233.0	7,116.0	7,419.0	7,104.0	6,758.0	7,002.0	7,070.0	7,082.0	7,643.0	7,094.0	7,202.0	7,148.0	7,117.5
16. Net Output Factor (%)	NOF	53.6	49.0	60.6	72.9	80.2	72.4	73.3	72.7	57.9	63.2	56.3	47.4	63.2
17. Net Period Continuous Rating (MW)	NPC	1,200.0	1,200.0	1,200.0	1,061.0	1,061.0	1,061.0	1,061.0	1,061.0	1,061.0	1,061.0	1,061.0	1,200.0	1,107.3
18. Avg. Net Operating Heat Rate Equation		ANOHR = NOF (-9.479) + 7,720												

Note: Period hours may not match the Service, RS or Unavailable hours due to the individual component hours of the Combined Cycle unit.

ORIGINAL SHEET NO. 8.401.19A
TAMPA ELECTRIC COMPANY

ACTUAL UNIT PERFORMANCE DATA

JANUARY 2023 - DECEMBER 2023

PLANT/UNIT		MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
BAYSIDE 1		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	2023
1. Equivalent Availability Factor (%)	EAF	98.7	100.0	65.0	99.9	89.0	100.0	99.6	99.4	57.0	99.5	83.8	100.0	91.0
2. Period Hours	PH	744.0	672.0	743.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	721.0	744.0	8,760.0
3. Service Hours	SH	744.0	672.0	577.4	720.0	744.0	720.0	744.0	744.0	396.3	744.0	595.3	744.0	8,145.0
4. Reserve Shutdown Hours	RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.1	0.0	8.3	0.0	22.4
5. Unavailable Hours	UH	6.3	0.1	224.2	0.7	53.2	0.0	3.0	3.3	309.6	3.6	116.4	0.0	720.4
6. Planned Outage Hours	POH	6.3	0.0	219.2	0.0	0.0	0.0	0.0	0.0	301.1	0.0	115.3	0.0	641.9
7. Forced Outage Hours	FOH	0.1	0.1	5.0	0.7	10.4	0.0	0.0	3.3	8.5	3.6	1.1	0.0	32.8
8. Maintenance Outage Hours	MOH	0.0	0.0	0.0	0.0	42.8	0.0	3.0	0.0	0.0	0.0	0.0	0.0	45.8
9a. Partial Planned Outage Hours	PPOH	0.0	0.0	349.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	349.9
9b. Load Reduction Partial Planned (MW)	LRPP	0.0	0.0	79.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.0
10a. Partial Forced Outage Hours	PFOH	0.4	0.4	7.0	3.3	46.5	0.0	0.0	14.7	0.0	0.0	0.0	0.0	72.3
10b. Load Reduction Partial Forced (MW)	LRPF	19.2	79.0	78.8	79.1	91.0	0.0	0.0	77.8	0.0	0.0	0.0	0.0	86.1
11a. Partial Maintenance Outage Hours	PMOH	27.1	0.0	0.0	0.0	190.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	217.9
11b. Load Reduction Partial Maintenance (MW)	LRPM	90.0	0.0	0.0	0.0	91.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90.9
12. Net Summer Continuous Rating (MW)	NSC	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0
13. Operating British Thermal Units (GBTU)	OPR BTU	1,896.6	1,436.5	1,691.7	2,416.0	2,140.5	2,207.4	2,318.2	2,428.0	1,443.4	2,096.7	1,457.6	1,921.7	23,454.1
14. Net Generation (MWH)	NETGEN	257,227.1	192,854.6	225,266.3	328,968.2	292,369.4	298,990.7	313,289.2	329,365.0	195,082.8	279,875.0	185,919.1	259,262.0	3,158,469.3
15. Avg. Net Operating Heat Rate (BTU/KWH)	ANOHR	7,373.0	7,449.0	7,510.0	7,344.0	7,321.0	7,383.0	7,399.0	7,372.0	7,399.0	7,492.0	7,840.0	7,412.0	7,425.8
16. Net Output Factor (%)	NOF	43.7	36.2	49.3	65.2	52.5	59.2	56.2	59.1	65.7	50.2	41.7	41.1	51.0
17. Net Period Continuous Rating (MW)	NPC	792.0	792.0	792.0	701.0	749.0	701.0	749.0	749.0	749.0	749.0	749.0	847.0	759.9
18. Avg. Net Operating Heat Rate Equation		ANOHR = NOF (-3.808) + 7,647												

Note: Period hours may not match the Service, RS or Unavailable hours due to the individual component hours of the Combined Cycle unit.

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EXHIBIT NO. _____ (EBV-1)
TAMPA ELECTRIC COMPANY
DOCKET NO. 20240001-EI
DOCUMENT NO. 2
PAGE 3 OF 4

ORIGINAL SHEET NO. 8.401.19A
TAMPA ELECTRIC COMPANY

ACTUAL UNIT PERFORMANCE DATA

JANUARY 2023 - DECEMBER 2023

PLANT/UNIT		MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD	
BAYSIDE 2		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	2023
1. Equivalent Availability Factor (%)	EAF	78.3	100.0	97.3	99.2	98.2	100.0	99.3	98.4	94.3	0.0	35.8	100.0	83.3
2. Period Hours	PH	744.0	672.0	743.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	721.0	744.0	8,760.0
3. Service Hours	SH	0.0	134.9	743.0	720.0	744.0	720.0	744.0	744.0	693.6	0.0	142.0	310.4	5,695.9
4. Reserve Shutdown Hours	RSH	582.9	537.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	117.8	433.7	1,671.5
5. Unavailable Hours	UH	161.1	0.0	13.9	3.8	9.2	0.0	5.2	7.9	34.3	744.0	460.2	0.0	1,439.6
6. Planned Outage Hours	POH	130.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	744.0	431.7	0.0	1,325.9
7. Forced Outage Hours	FOH	30.9	0.0	7.8	0.0	0.0	0.0	0.0	0.0	14.3	0.0	4.5	0.0	57.5
8. Maintenance Outage Hours	MOH	0.0	0.0	6.1	3.8	9.2	0.0	5.2	7.9	0.0	0.0	24.0	0.0	56.2
9a. Partial Planned Outage Hours	PPOH	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
9b. Load Reduction Partial Planned (MW)	LRPP	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
10a. Partial Forced Outage Hours	PFOH	0.0	0.0	42.7	0.0	0.0	0.0	0.0	0.0	85.1	0.0	13.4	0.0	141.2
10b. Load Reduction Partial Forced (MW)	LRPF	0.0	0.0	80.3	0.0	0.0	0.0	0.0	0.0	76.0	0.0	152.6	0.0	84.6
11a. Partial Maintenance Outage Hours	PMOH	0.0	0.0	34.9	22.9	55.0	0.0	0.0	46.9	0.0	0.0	0.0	0.0	159.6
11b. Load Reduction Partial Maintenance (MW)	LRPM	0.0	0.0	77.0	77.0	77.0	0.0	0.0	77.0	0.0	0.0	0.0	0.0	77.0
12. Net Summer Continuous Rating (MW)	NSC	929.0	929.0	929.0	929.0	929.0	929.0	929.0	929.0	929.0	929.0	929.0	929.0	929.0
13. Operating British Thermal Units (GBTU)	OPR BTU	0.0	306.4	3,035.7	2,924.5	2,834.6	2,628.3	2,532.8	2,899.6	3,234.2	0.0	542.2	1,049.8	21,988.1
14. Net Generation (MWH)	NETGEN	-1,293.0	37,457.0	410,346.7	390,191.0	378,962.5	352,539.0	337,033.0	386,336.0	435,857.3	0.0	63,446.0	140,254.2	2,931,129.8
15. Avg. Net Operating Heat Rate (BTU/KWH)	ANOHR	0.0	8,179.0	7,398.0	7,495.0	7,480.0	7,455.0	7,515.0	7,506.0	7,420.0	0.0	8,546.0	7,485.0	7,501.6
16. Net Output Factor (%)	NOF	0.0	26.5	52.8	58.3	54.8	52.7	48.8	55.9	67.7	0.0	48.1	43.2	53.1
17. Net Period Continuous Rating (MW)	NPC	1,047.0	1,047.0	1,047.0	929.0	929.0	929.0	929.0	929.0	929.0	929.0	929.0	1,047.0	968.3
18. Avg. Net Operating Heat Rate Equation		ANOHR = NOF (-21.057) + 8,699												

Note: Period hours may not match the Service, RS or Unavailable hours due to the individual component hours of the Combined Cycle unit.