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March 16, 2019

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. 20200001-EI

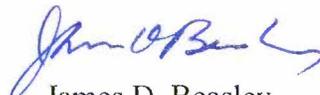
Dear Mr. Teitzman:

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 2019.
2. Prepared Direct Testimony and Exhibit (JBC-1) of Jeremy B. Cain regarding Generating Performance Incentive Factor True-Up for the period January 2019 through December 2019.

Thank you for your assistance in connection with this matter.

Sincerely,


James D. Beasley

JDB/bmp
Attachments

cc: All parties of record (w/attachments)

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

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

DOCKET NO. 20200001-EI
FILED: March 16, 2020

**TAMPA ELECTRIC COMPANY'S PETITION FOR APPROVAL OF
GENERATING PERFORMANCE INCENTIVE FACTOR RESULTS
FOR THE TWELVE MONTH PERIOD ENDING DECEMBER 2019**

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 2019. In support of this Petition, Tampa Electric states as follows:

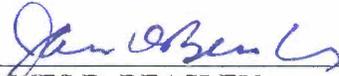
1. By Order No. PSC-2018-0610-FOF-EI, dated December 26, 2018, the Commission approved Tampa Electric's GPIF targets for the period January 2019 through December 2019. The application of the GPIF formula to the performance of the company's GPIF units during that period produces a reward of \$2,858,056. The calculation of the company's GPIF reward is discussed and supported in the prepared direct testimony and exhibit of Tampa Electric witness Jeremy B. Cain, 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 \$2,858,056 as its GPIF reward for the period ending December 2019 and authorize the inclusion of this amount in the calculation of Tampa Electric's fuel factors for the period beginning January 2021.

DATED this 16th day of March 2020.

Respectfully submitted,



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ATTORNEYS FOR TAMPA ELECTRIC COMPANY

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 16th day of March 2020 to the following:

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**BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION**

**DOCKET NO. 20200001-EI
IN RE: FUEL & PURCHASED POWER COST RECOVERY
AND
CAPACITY COST RECOVERY**

**GENERATING PERFORMANCE INCENTIVE FACTOR
TRUE-UP
JANUARY 2019 THROUGH DECEMBER 2019**

**TESTIMONY AND EXHIBIT
OF
JEREMY B. CAIN**

1 **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

2 **PREPARED DIRECT TESTIMONY**

3 **OF**

4 **JEREMY B. CAIN**

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

8
9 **A.** My name is Jeremy Cain. 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 of Asset Management, Bayside Station.

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 Mechanical
18 Engineering in 2003 from the University of New Brunswick,
19 Canada, and I am a registered Professional Engineer in
20 Canada. I have accumulated 10 years of experience in the
21 electric utility industry, with experience in the areas of
22 unit maintenance manager, project manager for a unit upgrade,
23 operations manager for that plant, as well as various other
24 engineering positions, including responsibility for physical
25 asset management. In my current role, I am responsible for

1 development of Tampa Electric's Asset Management programs
2 and processes, specifically for the Bayside Power Station,
3 and coordinating these programs with Asset Management
4 programs throughout Energy Supply. Asset Management
5 processes include work management processes, reliability
6 programs, information technology, operational and capital
7 investment analysis, recommendations, and planning to
8 maintain and improve the performance of the generating units.
9

10 **Q.** What is the purpose of your testimony?
11

12 **A.** The purpose of my testimony is to present Tampa Electric's
13 actual performance results from unit equivalent availability
14 and heat rate used to determine the Generating Performance
15 Incentive Factor ("GPIF") for the period January 2019 through
16 December 2019. I will also compare these results to the
17 targets established for the period.
18

19 **Q.** Have you prepared an exhibit to support your testimony?
20

21 **A.** Yes, I prepared Exhibit No. JBC-1, consisting of two
22 documents. Document No. 1, entitled "GPIF Schedules" is
23 consistent with the GPIF Implementation Manual approved by
24 the Commission. Document No. 2 provides the company's Actual
25 Unit Performance Data for the 2019 period.

- 1 **Q.** Which generating units on Tampa Electric's system are included
2 in the determination of the GPIF?
3
- 4 **A.** Polk Units 1 and 2 and Bayside Units 1 and 2 are included in
5 the calculation of the GPIF.
6
- 7 **Q.** Have you calculated the results of Tampa Electric's
8 performance under the GPIF during the January 2019 through
9 December 2019 period?
10
- 11 **A.** Yes, I have. This is shown on Document No. 1, page 4 of 22.
12 Based upon 5.274 Generating Performance Incentive Points
13 ("GPIP"), the result is a reward amount of \$2,858,056 for the
14 period.
15
- 16 **Q.** Please proceed with your review of the actual results for the
17 January 2019 through December 2019 period.
18
- 19 **A.** On Document No. 1, page 3 of 22, the actual average common
20 equity for the period is shown on line 14 as \$3,015,639,377.
21 This produces the maximum penalty or reward amount of
22 \$5,419,348 as shown on line 23.
23
- 24 **Q.** Will you please explain how you arrived at the actual
25 equivalent availability results for the four units included

1 within the GPIF?

2

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

8

9 **Q.** Are the actual equivalent availability results shown on
10 Document No. 1, page 6 of 22, column 2, directly applicable
11 to the GPIF table?

12

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

21

22 **Polk Unit No. 1**

23 On this unit, 720 planned outage hours were originally
24 scheduled for 2019. Actual outage activities required 419
25 planned outage hours. Consequently, the actual equivalent

1 availability of 78.9 percent is adjusted to 77.0 percent, as
2 shown on Document No. 1, page 7 of 22.

3

4 **Polk Unit No. 2**

5 On this unit, 576 planned outage hours were originally
6 scheduled for 2019. Actual outage activities required 391.4
7 planned outage hours. Consequently, the actual equivalent
8 availability of 92.6 percent is adjusted to 90.6 percent, as
9 shown on Document No. 1, page 8 of 22.

10

11 **Bayside Unit No. 1**

12 On this unit, 624 planned outage hours were originally
13 scheduled for 2019. Actual outage activities required 973.6
14 planned outage hours. Consequently, the actual equivalent
15 availability of 85.1 percent is adjusted to 89.1 percent, as
16 shown on Document No. 1, page 9 of 22.

17

18 **Bayside Unit No. 2**

19 On this unit, 671 planned outage hours were originally
20 scheduled for 2019. Actual outage activities required 998
21 planned outage hours. Consequently, the actual equivalent
22 availability of 85.5 percent is adjusted to 89.0 percent, as
23 shown on Document No. 1, page 10 of 22.

24

25 **Q.** How did you arrive at the applicable equivalent availability

1 points for each unit?

2

3 **A.** The final adjusted equivalent availability for each unit is
4 shown on Document No. 1, page 6 of 22, column 4. This number
5 is incorporated in the respective GPIIP table for each unit,
6 shown on pages 17 through 20 of 22. Page 4 of 22 summarizes
7 the weighted equivalent availability points to be awarded or
8 penalized.

9

10 **Q.** Will you please explain the heat rate results relative to the
11 GPIIF?

12

13 **A.** The actual heat rate and adjusted actual heat rate for Tampa
14 Electric's four GPIIF units are shown on Document No. 1, page
15 6 of 22. The adjustment was developed based on the guidelines
16 of Section 4.3.16 of the GPIIF Manual. This procedure is
17 further defined by a letter dated October 23, 1981, from Mr.
18 J. H. Hoffsis of the FPSC Staff. The final adjusted actual
19 heat rates are also shown on page 5 of 22, column 9. The heat
20 rate value is incorporated in the respective GPIIP table for
21 each unit, shown on pages 17 through 20 of 22. Page 4 of 22
22 summarizes the weighted heat rate points to be awarded or
23 penalized.

24

25 **Q.** What is the overall GPIIP for Tampa Electric for the January

1 2019 through December 2019 period?

2
3 **A.** This is shown on Document No. 1, page 2 of 22. The weighting
4 factors shown on page 4 of 22, column 3, plus the equivalent
5 availability points and the heat rate points shown on page 4
6 of 22, column 4, are substituted within the equation found on
7 page 22 of 22. The resulting value of 5.274 is in the GPIF
8 table on page 2 of 22, and the reward amount of \$2,858,056 is
9 calculated using linear interpolation.

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

13
14 **A.** Yes. Incentive dollars are not to exceed 50 percent of fuel
15 savings. Tampa Electric met this constraint, limiting the
16 total potential reward and penalty incentive dollars to
17 \$5,419,348 as shown in Document No. 1, pages 2 and 3.

18
19 **Q.** Does this conclude your testimony?

20
21 **A.** Yes, it does.
22
23
24
25

GENERATING PERFORMANCE INCENTIVE FACTOR

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EXHIBIT NO. ____ (JBC-1)
TAMPA ELECTRIC COMPANY
DOCKET NO. 20200001-EI
GPIF 2019 FINAL TRUE-UP
DOCUMENT NO. 1

EXHIBIT TO THE TESTIMONY OF
JEREMY B. CAIN

DOCKET NO. 20200001-EI

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE FACTOR
JANUARY 2019 - DECEMBER 2019
TRUE-UP

DOCUMENT NO. 1
GPIF SCHEDULES

**TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE FACTOR
JANUARY 2019 - DECEMBER 2019
TRUE-UP
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**TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE FACTOR
REWARD / PENALTY TABLE - ACTUAL
JANUARY 2019 - DECEMBER 2019**

GENERATING PERFORMANCE INCENTIVE POINTS (GPIP)	FUEL SAVINGS / (LOSS) (\$000)	GENERATING PERFORMANCE INCENTIVE FACTOR (\$000)
+10	10,838.7	5,419.3
+9	9,754.8	4,877.4
+8	8,671.0	4,335.5
+7	7,587.1	3,793.5
+6	6,503.2	3,251.6
+5	5,419.3	2,709.7
+4	4,335.5	2,167.7
+3	3,251.6	1,625.8
+2	2,167.7	1,083.9
+1	1,083.9	541.9
0	0.0	0.0
-1	(1,256.1)	(541.9)
-2	(2,512.1)	(1,083.9)
-3	(3,768.2)	(1,625.8)
-4	(5,024.3)	(2,167.7)
-5	(6,280.3)	(2,709.7)
-6	(7,536.4)	(3,251.6)
-7	(8,792.4)	(3,793.5)
-8	(10,048.5)	(4,335.5)
-9	(11,304.6)	(4,877.4)
-10	(12,560.6)	(5,419.3)



**TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE FACTOR
CALCULATION OF MAXIMUM ALLOWED INCENTIVE DOLLARS - ACTUAL
JANUARY 2019 - DECEMBER 2019**

Line 1	Beginning of period balance of common equity:		\$	2,867,405,914	
	End of month common equity:				
Line 2	Month of January	2019	\$	2,882,004,481	
Line 3	Month of February	2019	\$	2,909,743,602	
Line 4	Month of March	2019	\$	2,924,640,926	
Line 5	Month of April	2019	\$	2,946,588,417	
Line 6	Month of May	2019	\$	3,011,756,553	
Line 7	Month of June	2019	\$	3,047,198,358	
Line 8	Month of July	2019	\$	3,085,572,885	
Line 9	Month of August	2019	\$	3,033,558,076	
Line 10	Month of September	2019	\$	3,069,893,560	
Line 11	Month of October	2019	\$	3,104,286,978	
Line 12	Month of November	2019	\$	3,155,976,279	
Line 13	Month of December	2019	\$	3,164,685,873	
Line 14	(Summation of line 1 through line 13 divided by 13)		\$	3,015,639,377	
Line 15	25 Basis points			0.0025	
Line 16	Revenue Expansion Factor			75.30%	
Line 17	Maximum Allowed Incentive Dollars (line 14 times line 15 divided by line 16)		\$	10,012,482	
Line 18	Jurisdictional Sales			19,783,566	MWH
Line 19	Total Sales			19,783,566	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)		\$	10,012,482	
Line 22	Incentive Cap (50% of projected fuel savings at 10 GPIF-Point level from Sheet No. 3.515)		\$	5,419,348	
Line 23	Maximum Allowed GPIF Reward (At 10 GPIF-Point Level; the lesser of line 21 and line 22)		\$	5,419,348	

**TAMPA ELECTRIC COMPANY
CALCULATION OF SYSTEM GPIF POINTS - ACTUAL
JANUARY 2019 - DECEMBER 2019**

<u>PLANT / UNIT</u>	<u>12 MONTH ADJ. ACTUAL PERFORMANCE</u>		<u>WEIGHTING FACTOR %</u>	<u>UNIT POINTS</u>	<u>WEIGHTED UNIT POINTS</u>
POLK 1	77.0%	EAF	5.07%	-10.000	-0.507
POLK 2	90.6%	EAF	1.90%	-1.742	-0.033
BAYSIDE 1	89.1%	EAF	1.11%	-10.000	-0.111
BAYSIDE 2	89.0%	EAF	3.12%	10.000	0.312
POLK 1	8,880	ANOHR	10.57%	10.000	1.057
POLK 2	6,469	ANOHR	36.89%	10.000	3.689
BAYSIDE 1	7,344	ANOHR	14.00%	0.000	0.000
BAYSIDE 2	7,438	ANOHR	<u>27.35%</u>	3.170	<u>0.867</u>
			100.00%		5.274

GPIF REWARD	\$ 2,858,056
--------------------	---------------------

**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>EST. FUEL SAVINGS/ LOSS (\$000)</u>
POLK 1	5.07%	83.3	85.4	79.1	549.8	(342.2)	77.0%	(342.2)
POLK 2	1.90%	90.9	91.7	89.2	205.7	(1,759.2)	90.6%	(306.4)
BAYSIDE 1	1.11%	91.0	91.7	89.5	120.0	(60.0)	89.1%	(60.0)
BAYSIDE 2	<u>3.12%</u>	87.4	88.8	84.7	<u>337.7</u>	<u>(773.7)</u>	89.0%	337.7
GPIF SYSTEM	11.19%				1,213.2	(2,935.1)		

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>EST. FUEL SAVINGS/ LOSS (\$000)</u>
				<u>MIN.</u>	<u>MAX.</u>				
POLK 1	10.57%	10,124	86.4	9,187	11,061	1,145.8	(1,145.8)	8,880	1,145.8
POLK 2	36.89%	6,904	81.0	6,731	7,077	3,998.7	(3,998.7)	6,469	3,998.7
BAYSIDE 1	14.00%	7,400	80.6	7,284	7,516	1,517.1	(1,517.1)	7,344	0.0
BAYSIDE 2	<u>27.35%</u>	7,561	60.5	7,334	7,789	<u>2,964.0</u>	<u>(2,964.0)</u>	7,438	939.6
GPIF SYSTEM	88.81%					9,625.5	(9,625.5)		

14

**TAMPA ELECTRIC COMPANY
UNIT PERFORMANCE DATA - ACTUAL
JANUARY 2019 - DECEMBER 2019**

<u>PLANT / UNIT</u>	<u>ACTUAL EAF (%)</u>	<u>ADJUSTMENTS (1) TO EAF (%)</u>	<u>EAF ADJUSTED ACTUAL (%)</u>
POLK 1	78.9	-1.9	77.0
POLK 2	92.6	-2.0	90.6
BAYSIDE 1	85.1	4.0	89.1
BAYSIDE 2	85.5	3.5	89.0

<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>
POLK 1	8,960	-80	8,880
POLK 2	6,997	-528	6,469
BAYSIDE 1	7,402	-58	7,344
BAYSIDE 2	7,408	30	7,438

(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
POLK UNIT NO. 1
JANUARY 2019 - DECEMBER 2019**

WEIGHTING FACTOR = 5.07%

	<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	83.3	78.9	77.0
POH	720.0	419.0	720.0
FOH + EFOH	599.1	620.3	597.9
MOH + EMOH	143.3	729.0	702.7
POF	8.2	4.8	8.2
EFOF	6.8	7.1	6.8
EMOF	1.6	8.3	8.0
	-10.000	EQUIVALENT AVAILABILITY POINTS	

ADJUSTMENTS TO ACTUAL EAF FOR COMPARISON

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

$$\frac{8760 - 720}{8760 - 419} \times (620.3 + 729) = 1,300.6$$

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

$$100 - 8.2 - \frac{1300.6}{8,760.0} \times 100 = 77.0$$

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
POLK UNIT NO. 2
JANUARY 2019 - DECEMBER 2019**

WEIGHTING FACTOR = 1.90%

	<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	92.6	90.6
POH	576.0	391.4	576.0
FOH + EFOH	108.5	179.1	175.1
MOH + EMOH	113.5	76.0	74.3
POF	6.6	4.5	6.6
EFOF	1.2	2.0	2.0
EMOF	1.3	0.9	0.8
	-1.742	EQUIVALENT AVAILABILITY POINTS	

ADJUSTMENTS TO ACTUAL EAF FOR COMPARISON

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

$$\frac{8760 - 576}{8760 - 391.4} \times (179.1 + 76) = 249.5$$

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

$$100 - 6.6 - \frac{249.5}{8,760.0} \times 100 = 90.6$$

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
BAYSIDE UNIT NO. 1
JANUARY 2019 - DECEMBER 2019**

WEIGHTING FACTOR = 1.11%

	<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	91.0	85.1	89.1
POH	624.0	973.6	624.0
FOH + EFOH	83.9	259.4	271.0
MOH + EMOH	82.8	62.5	65.3
POF	7.1	11.1	7.1
EFOF	1.0	3.0	3.1
EMOF	0.9	0.7	0.7
	-10.000	EQUIVALENT AVAILABILITY POINTS	

ADJUSTMENTS TO ACTUAL EAF FOR COMPARISON

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

$$\frac{8760 - 624}{8760 - 973.6} \times (259.4 + 62.5) = 336.4$$

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

$$100 - 7.1 - \frac{336.4}{8,760.0} \times 100 = 89.1$$

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 2019 - DECEMBER 2019**

WEIGHTING FACTOR = 3.12%

	<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	87.4	85.5	89.0
POH	671.0	998.0	671.0
FOH + EFOH	204.3	132.1	137.7
MOH + EMOH	224.5	144.8	150.9
POF	7.7	11.4	7.7
EFOF	2.3	1.5	1.6
EMOF	2.6	1.7	1.7
	10.000	EQUIVALENT AVAILABILITY POINTS	

ADJUSTMENTS TO ACTUAL EAF FOR COMPARISON

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

$$\frac{8760 - 671}{8760 - 998} \times (132.1 + 144.8) = 288.6$$

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

$$100 - 7.7 - \frac{288.6}{8,760.0} \times 100 = 89.0$$

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 HEAT RATE
POLK UNIT NO. 1
JANUARY 2019 - DECEMBER 2019**

WEIGHTING FACTOR = 10.57%

	<u>12 MONTH TARGET</u>	<u>12 MONTH ACTUAL PERFORMANCE</u>
ANOHR (Btu/kwh)	10,124	8,960
NET GENERATION (GWH)	458.2	622.5
OPERATING BTU (10 ⁹)	3,747.9	5,577.4
NET OUTPUT FACTOR	86.4	59.0

10.000 HEAT RATE POINTS

ADJUSTMENTS TO ACTUAL HEAT RATE FOR COMPARISON

CURRENT EQUATION: $NOF * (-2.93) + 10377.49 = ANOHR$

$$59 * (-2.93) + 10377.49 = 10,204$$

$$8,960 - 10,204 = -1244$$

$$10,124 + (-1244) = 8,880 \leftarrow \text{ADJUSTED ACTUAL HEAT RATE AT TARGET NOF}$$

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

**TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO HEAT RATE
POLK UNIT NO. 2
JANUARY 2019 - DECEMBER 2019**

WEIGHTING FACTOR = 36.89%

	<u>12 MONTH TARGET</u>	<u>12 MONTH ACTUAL PERFORMANCE</u>
ANOHR (Btu/kwh)	6,904	6,997
NET GENERATION (GWH)	7,509.5	6,399.5
OPERATING BTU (10 ⁹)	51,036.1	44,776.0
NET OUTPUT FACTOR	81.0	71.2

10.000 HEAT RATE POINTS

ADJUSTMENTS TO ACTUAL HEAT RATE FOR COMPARISON

CURRENT EQUATION: $\text{NOF} * (-53.86) + 11266.21 = \text{ANOHR}$

$$71.2 * (-53.86) + 11266.21 = 7,431$$

$$6,997 - 7,431 = -434$$

$$6,904 + (-434) = 6,469 \quad \leftarrow \text{ADJUSTED ACTUAL HEAT RATE AT TARGET NOF}$$

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

**TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO HEAT RATE
BAYSIDE UNIT NO. 1
JANUARY 2019 - DECEMBER 2019**

WEIGHTING FACTOR = 14.00%

	<u>12 MONTH TARGET</u>	<u>12 MONTH ACTUAL PERFORMANCE</u>
ANOHR (Btu/kwh)	7,400	7,402
NET GENERATION (GWH)	4,520.1	3,192.8
OPERATING BTU (10 ⁹)	32,958.7	23,632.0
NET OUTPUT FACTOR	80.6	60.2

0.000 HEAT RATE POINTS

ADJUSTMENTS TO ACTUAL HEAT RATE FOR COMPARISON

CURRENT EQUATION: $NOF * (-2.85) + 7629.82 = ANOHR$

$$60.2 * (-2.85) + 7629.82 = 7,458$$

$$7,402 - 7,458 = -56$$

$$7,400 + -56 = 7,344 \leftarrow \text{ADJUSTED ACTUAL HEAT RATE AT TARGET NOF}$$

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

**TAMPA ELECTRIC COMPANY
ADJUSTMENTS TO HEAT RATE
BAYSIDE UNIT NO. 2
JANUARY 2019 - DECEMBER 2019**

WEIGHTING FACTOR = 27.35%

	<u>12 MONTH TARGET</u>	<u>12 MONTH ACTUAL PERFORMANCE</u>
ANOHR (Btu/kwh)	7,561	7,408
NET GENERATION (GWH)	4,441.0	4,648.5
OPERATING BTU (10 ⁹)	33,370.3	34,437.1
NET OUTPUT FACTOR	60.5	64.9

3.170 HEAT RATE POINTS

ADJUSTMENTS TO ACTUAL HEAT RATE FOR COMPARISON

CURRENT EQUATION: $NOF * (-6.67) + 7964.98 = ANOHR$

$$64.9 * (-6.67) + 7964.98 = 7,532$$

$$7,408 - 7,532 = -124$$

$$7,561 + (-124) = 7,438 \leftarrow \text{ADJUSTED ACTUAL HEAT RATE AT TARGET NOF}$$

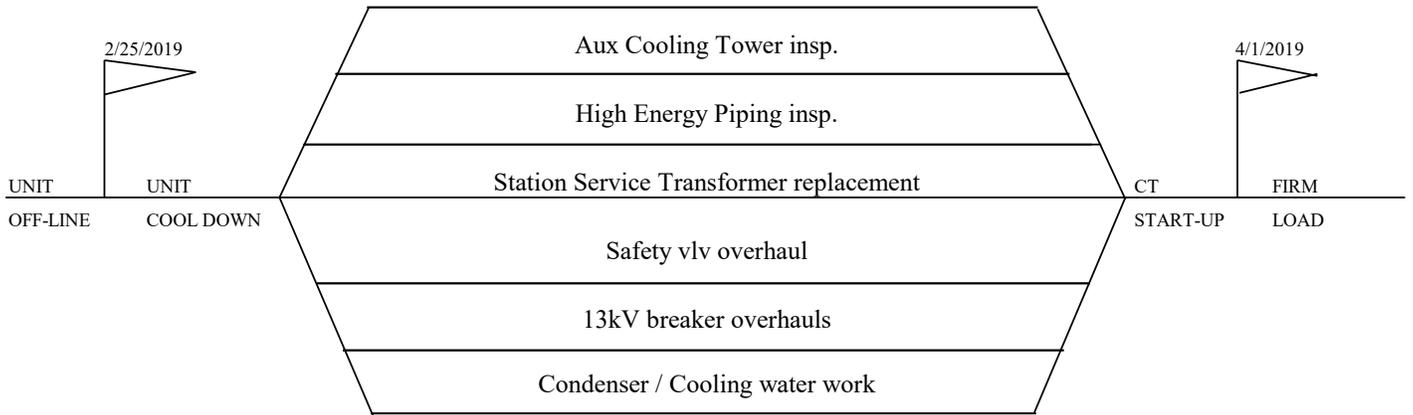
ANOHR = AVERAGE NET OPERATING HEAT RATE
NOF = NET OPERATING FACTOR

**TAMPA ELECTRIC COMPANY
PLANNED OUTAGE SCHEDULE (ACTUAL)
GPIF UNITS
JANUARY 2019 - DECEMBER 2019**

<u>PLANT / UNIT</u>	<u>PLANNED OUTAGE DATES</u>	<u>OUTAGE DESCRIPTION</u>
POLK 1	Oct 09 - Oct 26	Fuel System Cleanup
POLK 2	Apr 09 - Apr 22 Nov 19 - Nov 25	LP Steam Vlv repairs, Hotwell inspection Fuel System Cleanup
+ BAYSIDE 1	Feb 25 - Apr 01 Oct 27 - Nov 09	Station Service Transformer replacement, Aux Cooling Tower insp., High Energy Piping insp., Safety vlv overhaul, 13kV breaker overhauls, Condenser / Cooling water work Fuel System Cleanup
BAYSIDE 2	Jan 12 - Feb 01 Dec 02 - Dec 16	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 2019 - DECEMBER 2019**



TAMPA ELECTRIC COMPANY
BAYSIDE 1
PLANNED OUTAGE 2019
ACTUAL CPM

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE POINTS TABLE
JANUARY 2019 - DECEMBER 2019

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	549.8	85.4	+10	1,145.8	9,187
+9	494.8	85.2	+9	1,031.2	9,274
+8	439.8	85.0	+8	916.6	9,360
+7	384.9	84.8	+7	802.1	9,446
+6	329.9	84.6	+6	687.5	9,532
+5	274.9	84.4	+5	572.9	9,618
+4	219.9	84.1	+4	458.3	9,704
+3	164.9	83.9	+3	343.7	9,791
+2	110.0	83.7	+2	229.2	9,877
+1	55.0	83.5	+1	114.6	9,963
					10,049
0	0.0	83.3	0	0.0	10,124
					10,199
-1	(34.2)	82.9	-1	(114.6)	10,285
-2	(68.4)	82.5	-2	(229.2)	10,372
-3	(102.7)	82.0	-3	(343.7)	10,458
-4	(136.9)	81.6	-4	(458.3)	10,544
-5	(171.1)	81.2	-5	(572.9)	10,630
-6	(205.3)	80.8	-6	(687.5)	10,716
-7	(239.6)	80.4	-7	(802.1)	10,802
-8	(273.8)	79.9	-8	(916.6)	10,889
-9	(308.0)	79.5	-9	(1,031.2)	10,975
-10	(342.2)	79.1	-10	(1,145.8)	11,061

Weighting Factor =

5.07%

Weighting Factor =

10.57%

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE POINTS TABLE

JANUARY 2019 - DECEMBER 2019

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	205.7	91.7	+10	3,998.7	6,731
+9	185.2	91.6	+9	3,598.8	6,741
+8	164.6	91.6	+8	3,198.9	6,750
+7	144.0	91.5	+7	2,799.1	6,760
+6	123.4	91.4	+6	2,399.2	6,770
+5	102.9	91.3	+5	1,999.3	6,780
+4	82.3	91.2	+4	1,599.5	6,790
+3	61.7	91.1	+3	1,199.6	6,799
+2	41.1	91.1	+2	799.7	6,809
+1	20.6	91.0	+1	399.9	6,819
0	0.0	90.9	0	0.0	6,829
					6,904
					6,979
-1	(175.9)	90.7	-1	(399.9)	6,988
-2	(351.8)	90.6	-2	(799.7)	6,998
-3	(527.8)	90.4	-3	(1,199.6)	7,008
-4	(703.7)	90.2	-4	(1,599.5)	7,018
-5	(879.6)	90.1	-5	(1,999.3)	7,028
-6	(1,055.5)	89.9	-6	(2,399.2)	7,037
-7	(1,231.5)	89.7	-7	(2,799.1)	7,047
-8	(1,407.4)	89.6	-8	(3,198.9)	7,057
-9	(1,583.3)	89.4	-9	(3,598.8)	7,067
-10	(1,759.2)	89.2	-10	(3,998.7)	7,077

Weighting Factor =

1.90%

Weighting Factor =

36.89%

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE POINTS TABLE

JANUARY 2019 - DECEMBER 2019

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	120.0	91.7	+10	1,517.1	7,284
+9	108.0	91.6	+9	1,365.4	7,288
+8	96.0	91.6	+8	1,213.7	7,292
+7	84.0	91.5	+7	1,061.9	7,296
+6	72.0	91.4	+6	910.2	7,300
+5	60.0	91.3	+5	758.5	7,305
+4	48.0	91.3	+4	606.8	7,309
+3	36.0	91.2	+3	455.1	7,313
+2	24.0	91.1	+2	303.4	7,317
+1	12.0	91.0	+1	151.7	7,321
0	0.0	91.0	0	0.0	7,325
-1	(6.0)	90.8	-1	(151.7)	7,400
-2	(12.0)	90.7	-2	(303.4)	7,475
-3	(18.0)	90.5	-3	(455.1)	7,479
-4	(24.0)	90.4	-4	(606.8)	7,483
-5	(30.0)	90.2	-5	(758.5)	7,487
-6	(36.0)	90.1	-6	(910.2)	7,491
-7	(42.0)	89.9	-7	(1,061.9)	7,495
-8	(48.0)	89.8	-8	(1,213.7)	7,500
-9	(54.0)	89.6	-9	(1,365.4)	7,504
-10	(60.0)	89.5	-10	(1,517.1)	7,508

AHR POINTS
0.000

Adjusted ANOHR
7,344

EAFF POINTS
-10.000

Adjusted EAF
89.1

Weighting Factor =

1.11%

Weighting Factor =

14.00%

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE POINTS TABLE

JANUARY 2019 - DECEMBER 2019

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	337.7	88.8	+10	2,964.0	7,334
+9	303.9	88.7	+9	2,667.6	7,349
+8	270.1	88.5	+8	2,371.2	7,364
+7	236.4	88.4	+7	2,074.8	7,379
+6	202.6	88.3	+6	1,778.4	7,395
+5	168.8	88.1	+5	1,482.0	7,410
+4	135.1	88.0	+4	1,185.6	7,425
+3	101.3	87.9	+3	889.2	7,441
+2	67.5	87.7	+2	592.8	7,456
+1	33.8	87.6	+1	296.4	7,471
0	0.0	87.4	0	0.0	7,486
-1	(77.4)	87.2	-1	(296.4)	7,561
-2	(154.7)	86.9	-2	(592.8)	7,636
-3	(232.1)	86.6	-3	(889.2)	7,652
-4	(309.5)	86.4	-4	(1,185.6)	7,667
-5	(386.8)	86.1	-5	(1,482.0)	7,682
-6	(464.2)	85.8	-6	(1,778.4)	7,698
-7	(541.6)	85.5	-7	(2,074.8)	7,713
-8	(618.9)	85.3	-8	(2,371.2)	7,728
-9	(696.3)	85.0	-9	(2,667.6)	7,743
-10	(773.7)	84.7	-10	(2,964.0)	7,759

Weighting Factor =

3.12%

Weighting Factor =

27.35%

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

EQUIVALENT AVAILABILITY (%)

<u>PLANT / UNIT</u>	<u>TARGET WEIGHTING FACTOR (%)</u>	<u>NORMALIZED WEIGHTING FACTOR</u>	<u>TARGET PERIOD JAN 19 - DEC 19</u>			<u>ACTUAL PERFORMANCE JAN 19 - DEC 19</u>		
			<u>POF</u>	<u>EUOF</u>	<u>EUOR</u>	<u>POF</u>	<u>EUOF</u>	<u>EUOR</u>
POLK 1	5.1%	45.3%	8.2	8.5	9.2	4.8	15.4	16.2
POLK 2	1.9%	17.0%	6.6	2.5	2.7	4.5	2.9	3.0
BAYSIDE 1	1.1%	9.9%	7.1	1.9	2.0	11.1	3.7	4.1
BAYSIDE 2	3.1%	27.8%	7.7	4.9	5.3	11.4	3.2	3.6
GPIF SYSTEM	11.2%	100.0%	7.7	5.8	6.3	7.2	8.7	9.2
GPIF SYSTEM WEIGHTED EQUIVALENT AVAILABILITY (%)			<u>86.5</u>			<u>84.1</u>		
			<u>3 PERIOD AVERAGE</u>			<u>3 PERIOD AVERAGE</u>		
			<u>POF</u>	<u>EUOF</u>	<u>EUOR</u>	<u>EAF</u>		
			7.7	15.6	16.7	76.7		

AVERAGE NET OPERATING HEAT RATE (Btu/kwh)

<u>PLANT / UNIT</u>	<u>TARGET WEIGHTING FACTOR (%)</u>	<u>NORMALIZED WEIGHTING FACTOR</u>	<u>TARGET</u>	<u>ADJUSTED</u>
			<u>HEAT RATE JAN 19 - DEC 19</u>	<u>ACTUAL HEAT RATE JAN 19 - DEC 19</u>
POLK 1	10.57%	11.9%	10,124	8,880
POLK 2	36.89%	41.5%	6,904	6,469
BAYSIDE 1	14.00%	15.8%	7,400	7,344
BAYSIDE 2	27.35%	30.8%	7,561	7,438
GPIF SYSTEM	88.8%	100.0%		
GPIF SYSTEM WEIGHTED AVERAGE HEAT RATE (Btu/kwh)			<u>7,568</u>	<u>7,192</u>

**TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE POINTS CALCULATION
JANUARY 2019 - DECEMBER 2019**

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.

$$\begin{aligned} GPIP = & 5.07\% * (\text{PK 1 EAP}) + 1.90\% * (\text{PK 2 EAP}) + 1.11\% * (\text{BAY 1 EAP}) \\ & + 3.12\% * (\text{BAY 2 EAP}) + 10.57\% * (\text{PK 1 AHRP}) + 36.89\% * (\text{PK 2 AHRP}) \\ & + 14.00\% * (\text{BAY 1 AHRP}) + 27.35\% * (\text{BAY 2 AHRP}) \end{aligned}$$

$$\begin{aligned} GPIP = & 5.07\% * -10.000 + 1.90\% * -1.742 + 1.11\% * -10.000 \\ & + 3.12\% * 10.000 + 10.57\% * 10.000 + 36.89\% * 10.000 \\ & + 14.00\% * 0.000 + 27.35\% * 3.170 \end{aligned}$$

$$\begin{aligned} GPIP = & -0.507 + -0.033 + -0.111 \\ & + 0.312 + 1.057 + 3.689 \\ & + 0.000 + 0.867 \end{aligned}$$

$$GPIP = \underline{5.274} \text{ POINTS}$$

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.

$$GPIF \text{ REWARD} = \underline{\$2,858,056}$$

EXHIBIT NO. ____ (JBC-1)
TAMPA ELECTRIC COMPANY
DOCKET NO. 20200001-EI
GPIF 2019 FINAL TRUE-UP
DOCUMENT NO. 2

EXHIBIT TO THE TESTIMONY OF
JEREMY B. CAIN

DOCKET NO. 20200001-EI

TAMPA ELECTRIC COMPANY
GENERATING PERFORMANCE INCENTIVE FACTOR
JANUARY 2019 - DECEMBER 2019
TRUE-UP

DOCUMENT NO. 2
ACTUAL UNIT PERFORMANCE DATA

ORIGINAL SHEET NO. 8.401.19A
TAMPA ELECTRIC COMPANY

ACTUAL UNIT PERFORMANCE DATA

JANUARY 2019 - DECEMBER 2019

PLANT/UNIT		MONTH OF:	PERIOD											
POLK 1		JAN 19	FEB 19	MAR 19	APR 19	MAY 19	JUN 19	JUL 19	AUG 19	SEP 19	OCT 19	NOV 19	DEC 19	2019
1. Equivalent Availability Factor (%)	EAF	61.1	18.0	81.8	100.0	68.9	98.5	98.8	100.0	100.0	43.7	86.9	82.9	78.9
2. Period Hours	PH	744	672	744	720	744	720	744	744	720	744	720	744	8,760
3. Service Hours	SH	192.7	53.0	458.1	692.0	509.0	667.2	319.9	409.9	465.6	133.8	358.1	173.9	4,433.2
4. Reserve Shutdown Hours	RSH	322.9	0.0	179.0	28.0	3.4	42.0	415.5	334.1	254.4	191.2	279.3	443.1	2,492.9
5. Unavailable Hours	UH	213.9	539.6	106.9	0.0	231.6	10.8	8.6	0.0	0.0	419.0	82.6	127.0	1,740.0
6. Planned Outage Hours	POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	419.0	0.0	0.0	419.0
7. Forced Outage Hours	FOH	19.6	539.6	0.0	0.0	41.5	8.7	0.0	0.0	0.0	0.0	0.0	0.0	609.4
8. Maintenance Outage Hours	MOH	208.8	0.0	106.9	0.0	190.1	2.1	8.6	0.0	0.0	0.0	82.6	127.0	726.1
9a. Partial Planned Outage Hours	PPOH	744.0	493.0	30.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,267.9
9b. Load Reduction Partial Planned (MW)	LRPP	20.0	5.0	65.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.3
10a. Partial Forced Outage Hours	PFOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	372.2	0.0	372.2
10b. Load Reduction Partial Forced (MW)	LRPF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0	7.0
11a. Partial Maintenance Outage Hours	PMOH	0.0	0.0	46.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.7
11b. Load Reduction Partial Maintenance (MW)	LRPM	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0
12. Net Summer Continuous Rating (MW)	NSC	235	235	235	235	235	235	235	235	235	235	235	235	235
13. Operating British Thermal Units (GBTU)	OPR BTU	247.0	62.5	551.9	884.0	657.3	872.8	386.1	475.2	515.6	181.6	493.7	249.7	5,577.4
14. Net Generation (MWH)	NETGEN	23,968.3	4,295.0	61,112.0	103,624.0	75,289.0	101,034.8	40,693.3	51,490.0	55,151.1	19,059.4	59,836.1	26,913.0	622,466.0
15. Avg. Net Operating Heat Rate (BTU/KWH)	ANOHR	10,304.7	14,559.0	9,032.0	8,531.0	8,731.0	8,639.0	9,789.0	9,229.0	9,348.0	9,529.0	8,251.0	9,279.0	8,960.2
16. Net Output Factor (%)	NOF	50.8	32.9	55.1	64.5	62.9	64.4	54.1	53.5	50.4	60.6	71.1	63.9	59.0

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ORIGINAL SHEET NO. 8.401.19A
TAMPA ELECTRIC COMPANY

ACTUAL UNIT PERFORMANCE DATA

JANUARY 2019 - DECEMBER 2019

PLANT/UNIT		MONTH OF:	PERIOD											
POLK 2		JAN 19	FEB 19	MAR 19	APR 19	MAY 19	JUN 19	JUL 19	AUG 19	SEP 19	OCT 19	NOV 19	DEC 19	2019
1. Equivalent Availability Factor (%)	EAF	98.7	95.3	99.5	64.2	99.4	80.4	97.0	99.5	99.3	99.9	71.7	93.0	92.6
2. Period Hours	PH	744	672	744	720	744	720	744	744	720	744	720	744	8,760
3. Service Hours	SH	742.3	643.0	741.8	396.0	744.0	643.1	730.9	740.3	715.1	743.4	569.2	713.4	8,122.5
4. Reserve Shutdown Hours	RSH	0.0	0.0	0.0	66.5	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	67.5
5. Unavailable Hours	UH	1.7	29.0	2.2	257.5	0.0	76.9	12.1	3.7	4.9	0.6	150.8	30.6	570.0
6. Planned Outage Hours	POH	0.0	0.0	0.0	245.0	0.0	0.0	0.0	0.0	0.0	0.0	120.7	25.7	391.4
7. Forced Outage Hours	FOH	1.7	29.0	2.2	10.1	0.0	76.9	2.5	0.1	0.3	0.6	16.6	0.2	140.2
8. Maintenance Outage Hours	MOH	0.0	0.0	0.0	2.4	0.0	0.0	9.6	3.6	4.7	0.0	13.5	4.7	38.5
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	5.0	8.4	5.8	0.0	18.3	237.6	7.6	0.0	0.0	1.7	51.0	0.4	335.8
10b. Load Reduction Partial Forced (MW)	LRPF	34.0	298.6	97.0	0.0	138.0	125.2	124.9	0.0	0.0	124.5	125.0	123.4	128.3
11a. Partial Maintenance Outage Hours	PMOH	32.3	0.0	0.0	0.0	0.0	0.0	29.7	0.0	0.0	0.0	135.7	81.1	278.8
11b. Load Reduction Partial Maintenance (MW)	LRPM	300.0	0.0	0.0	0.0	0.0	0.0	125.0	0.0	0.0	0.0	132.5	125.0	148.9
12. Net Summer Continuous Rating (MW)	NSC	1,061	1,061	1,061	1,061	1,061	1,061	1,061	1,061	1,061	1,061	1,061	1,061	1,061
13. Operating British Thermal Units (GBTU)	OPR BTU	4,703.9	2,665.0	3,704.2	1,627.1	3,689.5	3,213.4	4,270.8	4,669.9	4,373.8	4,680.8	2,949.5	4,228.1	44,776.0
14. Net Generation (MWH)	NETGEN	682,239.1	377,898.0	527,688.0	213,900.0	517,263.0	449,778.0	592,883.0	673,696.0	658,273.7	676,742.0	417,852.0	611,288.0	6,399,500.8
15. Avg. Net Operating Heat Rate (BTU/KWH)	ANOHR	6,894.7	7,052.0	7,020.0	7,607.0	7,134.0	7,144.0	7,204.0	6,932.0	6,912.0	6,917.0	7,050.0	6,917.0	6,996.8
16. Net Output Factor (%)	NOF	76.6	49.0	59.1	50.6	65.5	58.9	75.1	85.3	86.3	85.7	66.0	68.5	71.2

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ORIGINAL SHEET NO. 8.401.19A
TAMPA ELECTRIC COMPANY

ACTUAL UNIT PERFORMANCE DATA

JANUARY 2019 - DECEMBER 2019

PLANT/UNIT		MONTH OF:	PERIOD											
BAYSIDE 1		JAN 19	FEB 19	MAR 19	APR 19	MAY 19	JUN 19	JUL 19	AUG 19	SEP 19	OCT 19	NOV 19	DEC 19	2019
1. Equivalent Availability Factor (%)	EAF	99.9	87.8	23.1	87.9	93.9	95.4	86.7	96.8	97.5	78.1	67.5	98.6	85.1
2. Period Hours	PH	744	672	744	720	744	720	744	744	720	744	720	744	8,760
3. Service Hours	SH	744.0	597.1	0.0	586.9	714.1	700.1	672.5	728.2	708.2	602.7	467.8	736.3	7,257.9
4. Reserve Shutdown Hours	RSH	0.0	0.0	171.9	46.5	0.0	0.0	0.0	0.0	0.0	0.0	23.6	0.0	242.0
5. Unavailable Hours	UH	0.0	74.9	572.1	86.6	29.9	19.9	71.5	15.8	11.8	141.3	228.6	7.7	1,260.1
6. Planned Outage Hours	POH	0.0	74.9	572.1	8.5	0.0	0.0	0.0	0.0	0.0	114.4	203.7	0.0	973.6
7. Forced Outage Hours	FOH	0.0	0.0	0.0	78.1	0.0	19.9	68.5	10.8	10.2	24.7	14.0	7.7	233.9
8. Maintenance Outage Hours	MOH	0.0	0.0	0.0	0.0	29.9	0.0	3.0	5.0	1.6	2.2	10.8	0.0	52.5
9a. Partial Planned Outage Hours	PPOH	0.0	48.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.5
9b. Load Reduction Partial Planned (MW)	LRPP	0.0	117.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	117.4
10a. Partial Forced Outage Hours	PFOH	2.1	0.0	0.0	0.9	0.0	39.7	81.7	16.1	12.8	36.9	16.8	10.0	217.0
10b. Load Reduction Partial Forced (MW)	LRPF	263.8	0.0	0.0	77.4	0.0	94.2	79.0	79.0	145.3	72.3	79.0	71.0	86.0
11a. Partial Maintenance Outage Hours	PMOH	0.0	0.0	0.0	0.0	44.6	7.7	0.0	7.4	2.4	20.3	0.0	0.0	82.5
11b. Load Reduction Partial Maintenance (MW)	LRPM	0.0	0.0	0.0	0.0	79.0	75.0	0.0	79.0	79.0	118.1	0.0	0.0	88.3
12. Net Summer Continuous Rating (MW)	NSC	701	701	701	701	701	701	701	701	701	701	701	701	701
13. Operating British Thermal Units (GBTU)	OPR BTU	2,153.7	1,975.7	0.0	2,092.3	2,623.6	2,709.4	2,338.2	2,555.4	2,098.8	1,848.1	1,146.7	2,090.2	23,632.0
14. Net Generation (MWH)	NETGEN	281,105.8	268,363.3	-489.0	285,493.0	357,594.0	371,287.2	316,400.6	340,370.5	282,565.0	249,882.7	153,636.9	286,572.2	3,192,782.2
15. Avg. Net Operating Heat Rate (BTU/KWH)	ANOHR	7,661.4	7,362.0	0.0	7,329.0	7,337.0	7,297.0	7,390.0	7,508.0	7,428.0	7,396.0	7,464.0	7,294.0	7,401.7
16. Net Output Factor (%)	NOF	47.7	56.8	0.0	69.4	68.6	73.6	64.1	65.3	56.0	55.1	46.8	48.6	60.2

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ORIGINAL SHEET NO. 8.401.19A
TAMPA ELECTRIC COMPANY

ACTUAL UNIT PERFORMANCE DATA

JANUARY 2019 - DECEMBER 2019

PLANT/UNIT		MONTH OF:	PERIOD											
BAYSIDE 2		JAN 19	FEB 19	MAR 19	APR 19	MAY 19	JUN 19	JUL 19	AUG 19	SEP 19	OCT 19	NOV 19	DEC 19	2019
1. Equivalent Availability Factor (%)	EAF	33.7	80.8	99.5	94.1	99.6	99.3	100.0	92.1	97.4	100.0	71.8	46.1	85.5
2. Period Hours	PH	744	672	744	720	744	720	744	744	720	744	720	744	8,760
3. Service Hours	SH	241.8	594.0	740.6	691.2	742.1	717.2	743.0	685.1	707.6	744.0	597.6	155.5	7,359.7
4. Reserve Shutdown Hours	RSH	24.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	212.4	237.4
5. Unavailable Hours	UH	478.2	78.0	3.4	28.8	1.9	2.8	0.0	58.9	12.4	0.0	122.4	376.1	1,162.9
6. Planned Outage Hours	POH	445.0	58.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	122.4	372.6	998.0
7. Forced Outage Hours	FOH	33.2	0.0	3.4	28.8	0.5	2.8	0.0	0.0	0.0	0.0	0.0	3.5	72.2
8. Maintenance Outage Hours	MOH	0.0	20.0	0.0	0.0	1.4	0.0	0.0	58.9	12.4	0.0	0.0	0.0	92.9
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	0.7	383.8	0.2	53.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	445.1
10b. Load Reduction Partial Forced (MW)	LRPF	261.8	138.4	78.8	77.0	77.5	0.0	0.0	0.0	0.0	0.0	0.0	79.0	130.3
11a. Partial Maintenance Outage Hours	PMOH	59.9	0.0	0.0	0.0	2.7	8.3	0.0	0.0	24.2	0.0	164.2	41.9	301.2
11b. Load Reduction Partial Maintenance (MW)	LRPM	261.8	0.0	0.0	0.0	77.1	85.0	0.0	0.0	77.0	0.0	149.2	174.2	166.9
12. Net Summer Continuous Rating (MW)	NSC	929	929	929	929	929	929	929	929	929	929	929	929	929
13. Operating British Thermal Units (GBTU)	OPR BTU	661.3	2,265.6	4,330.1	3,601.5	4,030.2	3,898.4	3,798.3	3,042.7	2,946.1	3,292.3	2,204.7	365.9	34,437.1
14. Net Generation (MWH)	NETGEN	80,708.2	305,544.7	572,174.0	492,205.4	551,479.2	538,434.7	520,587.5	405,685.4	397,926.0	448,016.3	297,089.0	38,648.7	4,648,499.1
15. Avg. Net Operating Heat Rate (BTU/KWH)	ANOHR	8,193.5	7,415.0	7,568.0	7,317.0	7,308.0	7,240.0	7,296.0	7,500.0	7,404.0	7,349.0	7,421.0	9,469.0	7,408.2
16. Net Output Factor (%)	NOF	31.9	49.1	86.9	73.6	77.5	80.5	75.3	63.7	59.5	64.8	44.4	23.7	64.9

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