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July 26, 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. 20190001-EI

Dear Mr. Teitzman:

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

1. Petition of Tampa Electric Company.
2. Prepared Direct Testimony and Exhibit (PAR-2) of Penelope A. Rusk regarding Fuel and Purchased Power Cost Recovery and Capacity Cost Recovery Actual/Estimated 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/pp  
Attachment

cc: All Parties of Record (w/attachment)

**CERTIFICATE OF SERVICE**

I HEREBY CERTIFY that a true and correct copy of the foregoing Petition and Testimony and Exhibit of Penelope A. Rusk, filed on behalf of Tampa Electric Company, has been furnished by electronic mail on this 26<sup>th</sup> day of July 2019, to the following:

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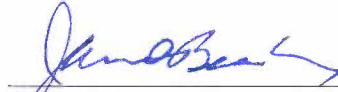
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ATTORNEY

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Fuel and Purchased Power Cost Recovery ) DOCKET NO. 20190001-EI  
Clause with Generating Performance Incentive )  
Factor. ) FILED: July 26, 2019  
\_\_\_\_\_ )

**PETITION OF TAMPA ELECTRIC COMPANY**

Tampa Electric Company ("Tampa Electric" or "company"), hereby petitions the Commission for approval of the company's actual/estimated fuel and purchased power cost recovery and capacity cost recovery true-up amounts for the period January 2019 through December 2019. In support thereof, Tampa Electric incorporates the prepared direct testimony and exhibit of Tampa Electric witness Penelope A. Rusk.

**Fuel and Purchased Power Cost Recovery**

1. Tampa Electric projects an actual/estimated true-up amount for the January 2019 through December 2019 period, which is based on actual data for the period January 1, 2019 through June 30, 2019 and revised estimates for the period July 1, 2019 through December 31, 2019 and inclusive of the mid-course correction true-up adjustments to the current period, to be an over-recovery of \$13,244,371. (See Exhibit No. PAR-2, Document No. 1, Schedule E-1A.)

**Capacity Cost Recovery**

2. Tampa Electric projects a true-up amount for the January 2019 through December 2019 period, which is based on actual data for the period January 1, 2019 through June 30, 2019 and revised estimates for the period July 1, 2019 through December 31, 2019 and inclusive of the mid-course correction true-up adjustments to the current period, to be an under-recovery of \$2,179,217. (See Exhibit No. PAR-2, Document No. 2, Page 1 of 4, Line 6.)

3. Tampa Electric is not aware of any disputed issues of material fact regarding any of the matters stated or relief requested in this petition.

WHEREFORE, Tampa Electric Company requests that the Commission approve Tampa Electric's actual/estimated true-up amounts for fuel and purchased power cost recovery and capacity cost recovery for the period January 1, 2019 through December 31, 2019.

DATED this 26<sup>th</sup> day of July 2019.

Respectfully submitted,



---

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ATTORNEYS FOR TAMPA ELECTRIC COMPANY

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true copy of the foregoing Petition, filed on behalf of Tampa Electric Company, has been furnished by electronic mail on this 26th day of July, 2019, to the following:

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\_\_\_\_\_  
ATTORNEY



TAMPA ELECTRIC  
AN EMERA COMPANY

BEFORE THE  
FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 20190001-EI  
FUEL & PURCHASED POWER COST RECOVERY  
AND  
CAPACITY COST RECOVERY

ACTUAL/ESTIMATED TRUE-UP  
JANUARY 2019 THROUGH DECEMBER 2019

TESTIMONY AND EXHIBIT  
OF  
PENELOPE A. RUSK

FILED: JULY 26, 2019



1                                   **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

2                                   **PREPARED DIRECT TESTIMONY**

3                                   **OF**

4                                   **PENELOPE A. RUSK**

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

7  
8   **A.**   My name is Penelope A. Rusk. My business address is 702  
9           N. Franklin Street, Tampa, Florida 33602. I am employed  
10          by Tampa Electric Company ("Tampa Electric" or "company")  
11          in the position of Director, Regulatory Affairs.

12  
13   **Q.**   Please provide a brief outline of your educational  
14          background and business experience.

15  
16   **A.**   I received a Bachelor of Arts degree in Economics from the  
17          University of New Orleans in 1995, and I received a Master  
18          of Arts degree in Economics from the University of South  
19          Florida in Tampa in 1997. I joined Tampa Electric in 1997,  
20          as an Economist in the Load Forecasting Department. In 2000,  
21          I joined the Regulatory Affairs Department, where I assumed  
22          positions of increasing responsibility over time. My  
23          current position is Director of Regulatory Affairs.

24  
25          At Tampa Electric, I have accumulated over 20 years of

1 electric utility experience in the areas of load  
2 forecasting; management of the fuel and purchased power,  
3 capacity, and environmental cost recovery clauses; rate  
4 setting and rate filings; and regulatory project management  
5 activities. I also oversee the coordination and filing of  
6 all Tampa Electric and Peoples Gas filings with federal and  
7 state regulatory agencies. I am a member of the Southeastern  
8 Electric Exchange Rates and Regulation committee.

9  
10 **Q.** What is the purpose of your direct testimony?

11  
12 **A.** The purpose of my testimony is to present, for Commission  
13 review and approval, the calculation of the January 2019  
14 through December 2019 fuel and purchased power and  
15 capacity actual/estimated true-up amounts to be recovered  
16 in the January 2020 through December 2020 projection  
17 period. My testimony addresses the recovery of the fuel  
18 and purchased power costs as well as capacity costs for  
19 the year 2019, based on six months of actual data and six  
20 months of estimated data. This information will be used  
21 in the determination of the 2020 fuel and purchased power  
22 and capacity cost recovery factors.

23  
24 **Q.** Have you prepared an exhibit to support your direct  
25 testimony?

1     **A.**    Yes, I have prepared Exhibit No. PAR-2, which consists of  
2            three documents. Document No. 1 includes schedules E1-B,  
3            E-2, E-3, E-4, E-5, E-6, E-7, E-8, and E-9, which provide  
4            the actual/estimated fuel and purchased power cost  
5            recovery true-up amount for the period January 2019  
6            through December 2019. Document No. 2 provides the  
7            actual/estimated capacity cost recovery true-up amount  
8            for the period January 2019 through December 2019.  
9            Document No. 3 provides the actual/estimated capital  
10           costs during the period of January 2019 through December  
11           2019 for projects authorized for recovery through the fuel  
12           clause. Document No. 3 also provides the capital structure  
13           components and cost rates relied upon to calculate the  
14           revenue requirement rate of return for such projects.  
15           These documents are furnished as support for the  
16           actual/estimated true-up amount for this period.

17

18     **Fuel and Purchased Power Cost Recovery Factors**

19     **Q.**    What has Tampa Electric calculated as the estimated net  
20            true-up amount for the current period to be applied in  
21            the January 2020 through December 2020 fuel and purchased  
22            power cost recovery factors?

23

24     **A.**    The estimated net true-up amount applicable for the period  
25            of January 2020 through December 2020 is an under-recovery

1 of \$30,742,026.

2  
3 **Q.** How did Tampa Electric calculate the estimated net true-  
4 up to be applied in the January 2020 through December  
5 2020 fuel and purchased power cost recovery factors?

6  
7 **A.** The net true-up amount to be recovered in 2020 includes  
8 the final true-up amount for the period January 2018  
9 through December 2018 and the actual/estimated true-up  
10 amount for the period January 2019 through December 2019.  
11 This calculation is shown on Schedule E1-A of Exhibit No.  
12 PAR-2, Document No. 1.

13  
14 **Q.** What did Tampa Electric calculate as the final fuel and  
15 purchased power cost recovery true-up amount for the  
16 period January 2018 through December 2018?

17  
18 **A.** The final 2018 true-up is an under-recovery of  
19 \$43,986,397. The actual fuel cost under-recovery,  
20 including interest, is \$36,970,912 for the period January  
21 2018 through December 2018. The \$36,970,912 under-  
22 recovery, less the actual/estimated over-recovery true-  
23 up amount of \$7,015,485 approved in Order No.  
24 PSC-2018-0610-FOF-EI, issued December 26, 2018 in Docket  
25 No. 20180001-EI, results in a net under-recovery amount

1 for the period of \$43,986,397.

2  
3 **Q.** What did Tampa Electric calculate as the actual/estimated  
4 fuel and purchased power cost recovery amount for the  
5 period January 2019 through December 2019?  
6

7 **A.** The net 2019 actual/estimated fuel and purchased power  
8 cost recovery true-up is an over-recovery of \$13,244,371  
9 for the January 2019 through December 2019 period. This  
10 includes adjustments to reflect the company's mid-course  
11 correction true-up amounts. It is the actual/estimated  
12 under-recovery amount for the period January 2019 through  
13 December 2019, less the projected under-recovery true-up  
14 included in the period April 2019 through December 2019  
15 mid-course correction factors, plus the difference  
16 between the 2018 actual/estimated true-up amount included  
17 in the original 2019 factors and the amount actually  
18 refunded before the mid-course correction factors became  
19 effective. The actual/estimated true-up for the period  
20 January 2019 through December 2019 is an under-recovery  
21 of \$27,562,704. The detailed calculation supporting the  
22 actual/estimated current period true-up is shown in  
23 Exhibit No. PAR-2, Document No. 1 on Schedule E1-B. The  
24 \$27,562,704 under-recovery less the \$35,545,462 projected  
25 under-recovery true-up approved in Order No.

1 PSC-2019-0109-PCO-EI, issued on March 22, 2019 in Docket  
2 No. 20190001-EI, plus the \$5,261,613 difference between  
3 the 2018 actual/estimated true-up amount and the amount  
4 refunded during the period January 2019 through March  
5 2019, results in a net actual/estimated over-recovery  
6 amount for the period of \$13,244,371. The calculation is  
7 shown on Schedule E1-A of Exhibit No. PAR-2, Document  
8 No. 1.

9  
10 **Q.** What did Tampa Electric calculate as the difference  
11 between the actual/estimated true-up amount for the  
12 period January 2018 through December 2018 filed in 2018  
13 and the actual amount collected in 2019?

14  
15 **A.** The difference between the actual/estimated true-up  
16 amount for the period January 2018 through December 2018,  
17 which was included in the factors for the period January  
18 2019 through December 2019, and the actual amount refunded  
19 during 2019 is \$5,261,613. This amount is the  
20 actual/estimated over-recovery true-up of \$7,015,485  
21 included in the original 2019 fuel factors, less  
22 \$1,753,872, which represents the \$584,624 refunded each  
23 month during the three-month period January 2019 through  
24 March 2019 before the revised mid-course correction  
25 factors took effect.

1     **Capacity Cost Recovery Clause**

2     **Q.**    What has Tampa Electric calculated as the estimated net  
3            true-up amount to be applied in the January 2020 through  
4            December 2020 capacity cost recovery factors?

5  
6     **A.**    The estimated net true-up amount applicable for January  
7            2020 through December 2020 is an under-recovery of  
8            \$2,179,217 as shown in Exhibit No. PAR-2, Document No. 2,  
9            page 2 of 5.

10  
11    **Q.**    How did Tampa Electric calculate the estimated net true-  
12            up amount to be applied in the January 2020 through  
13            December 2020 capacity cost recovery factors?

14  
15    **A.**    The net true-up amount to be recovered in the 2020  
16            capacity cost recovery factors includes the final under-  
17            recovery amount for 2018 and the actual/estimated true-  
18            up amount for January 2019 and December 2019. Due to the  
19            April 2019 mid-course correction, the net true-up amount  
20            also includes the portion of the actual/estimated 2018  
21            true-up recovered in the original capacity factors  
22            effective during the months of January 2019 through March  
23            2019 as well as the projected true-up amount included in  
24            the mid-course factors effective for April 2019 through  
25            December 2019.

1 Q. What did Tampa Electric calculate as the final capacity  
2 cost recovery true-up amount for 2018?

3

4 A. The final 2018 under-recovery is \$5,458,886. The company  
5 rolled this amount forward into 2019, including it in the  
6 2019 mid-course correction factors. Therefore, the final  
7 2018 true-up amount for 2018 is \$0.

8

9 Q. What did Tampa Electric calculate as the actual/estimated  
10 capacity cost recovery true-up amount for the period  
11 January 2019 through December 2019?

12

13 A. The actual/estimated true-up amount is an over-recovery  
14 of \$1,422,896 as shown on Exhibit No. PAR-2, Document  
15 No. 2, page 1 of 4.

16

17 Q. What did Tampa Electric calculate as the net capacity  
18 cost recovery true-up amount for the period January 2019  
19 through December 2019?

20

21 A. The net capacity cost recovery true-up amount for the  
22 period January 2019 through December 2019 is an under-  
23 recovery of \$2,179,217. The final 2018 under-recovery  
24 amount is \$5,458,886. The company rolled this amount  
25 forward to calculate the revised under-recovery true-up



1 amount of \$1,160,527 included in the mid-course cost  
2 recovery factors for the period April 2019 through  
3 December 2019, as approved in Order No. PSC-2019-0109-  
4 PCO-EI, issued March 22, 2019 in Docket No. 20190001-EI.  
5 The company also collected \$696,246, or \$232,082 monthly  
6 over the period January 2019 through March 2019, of the  
7 prior period under-recovery true-up included in the  
8 original 2019 factors. The sum of these three items is an  
9 under-recovery amount of \$3,602,113. The net capacity  
10 cost recovery true-up amount for the period 2019 is  
11 calculated as the \$1,422,896 actual/estimated over-  
12 recovery plus the \$3,602,113 mid-course under-recovery,  
13 or a net true-up under-recovery amount of \$2,179,217. This  
14 calculation is shown on Exhibit No. PAR-2, Document No.  
15 2, page 1 of 4.

16  
17 **Capital Projects Approved for Fuel Clause Recovery**

18 **Q.** Please describe the capital project costs that have been  
19 authorized for recovery through the fuel clause.

20  
21 **A.** Document No. 3 of Exhibit No. PAR-2 provides the capital  
22 cost and fuel savings for the Big Bend Units 1 through 4  
23 ignition conversion project for the period January 2019  
24 through December 2019. This document also contains the  
25 capital structure components and cost rates relied upon

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to calculate the revenue requirement rate of return on capital projects recovered through the fuel clause.

The Big Bend Units 1 through 4 ignition conversion project capital costs, including depreciation and return, for the period January 2019 through December 2019 are less than the project fuel savings, as shown on Exhibit No. PAR-2, Document No. 3, Page 1, line 33. Therefore, the Big Bend Units 1 through 4 ignition conversion project capital costs should be recovered through the fuel clause in accordance with FPSC Order No. PSC-2014-0309-PAA-EI, issued in Docket No. 20140032-EI on June 12, 2014.

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

**A.** Yes, it does.

**EXHIBIT TO THE TESTIMONY OF**

**PENELOPE A. RUSK**

**DOCUMENT NO. 1**

**FUEL AND PURCHASED POWER COST RECOVERY**

**ACTUAL / ESTIMATED**

**JANUARY 2019 THROUGH DECEMBER 2019**

**TAMPA ELECTRIC COMPANY**

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4	Schedule E2 Cost Recovery Clause Calculation	( " )
5-6	Schedule E3 Generating System Comparative Data	( " )
7-24	Schedule E4 System Net Generation and Fuel Cost	( " )
25-26	Schedule E5 Inventory Analysis	( " )
27-28	Schedule E6 Power Sold	( " )
29	Schedule E7 Purchased Power	( " )
30	Schedule E8 Energy Payment to Qualifying Facilities	( " )
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TAMPA ELECTRIC COMPANY  
 CALCULATION OF PROJECTED PERIOD TOTAL TRUE-UP  
 FOR THE PERIOD: JANUARY 2020 THROUGH DECEMBER 2020

SCHEDULE E1-A

1. ESTIMATED OVER/(UNDER) RECOVERY (SCH. E1-B) January 2019 - December 2019 (6 months actual, 6 months estimated )	(\$27,562,704)
2. PROJECTED UNDER-RECOVERY TRUE-UP INCLUDED IN APRIL - DECEMBER 2019 RATES (Per Mid-Course correction Schedule E1-C, line 1B)	(\$35,545,462)
3. DIFFERENCE IN 2018 ESTIMATED TRUE-UP AMOUNT PROJECTED IN ORIGINAL 2019 RATES AND AMOUNT COLLECTED IN 2019 (\$7,015,485 over-recovery less \$584,624 refunded each month January through March 2019)	<u>\$5,261,613</u>
4. ACTUAL-ESTIMATED 2019 OVER/(UNDER) RECOVERY TO BE COLLECTED IN 2020 (Line 1 - Line 2 + Line 3)	\$13,244,371
5. FINAL TRUE-UP (January 2018 - December 2018) (Per True-Up filed March 1, 2019)	<u>(43,986,397)</u>
6. TOTAL OVER/(UNDER) RECOVERY (Line 4 + Line 5) To be included in the 12-month projected period January 2020 through December 2020 (Schedule E1, line 28)	<u><u>(\$30,742,026)</u></u>
7. JURISDICTIONAL MWH SALES (Projected January 2020 through December 2020)	19,618,479
8. TRUE-UP FACTOR - cents/kWh (Line 6 / Line 7 * 100 cents / 1,000 kWh)	<b>0.1567</b>

TAMPA ELECTRIC COMPANY  
CALCULATION OF ESTIMATED TRUE-UP  
ACTUAL/ESTIMATED FOR THE PERIOD: JANUARY 2019 THROUGH DECEMBER 2019

SCHEDULE E1-B

	ACTUAL						ESTIMATED						TOTAL
	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	
A. 1. Fuel Cost of System Net Generation	49,606,343	38,597,469	40,176,296	43,477,069	50,800,286	47,406,580	51,830,901	53,810,457	48,923,283	43,794,168	42,168,783	45,957,217	556,548,852
2. Fuel Cost of Power Sold <sup>(1)</sup>	169,947	119,888	111,628	130,003	562,515	437,747	16,118	16,459	17,463	17,582	18,024	18,630	1,636,004
3. Fuel Cost of Purchased Power	35,101	113,816	7,752	19,463	26,772	11,567	0	0	0	0	0	0	214,471
3a. Demand and Non-Fuel Cost of Purchased Pwr	0	0	0	0	0	0	0	0	0	0	0	0	0
3b. Payments to Qualifying Facilities	621,159	347,789	265,526	375,556	380,746	282,612	299,280	297,310	317,540	299,630	278,720	308,860	4,074,728
4. Energy Cost of Economy Purchases	632,705	253,771	1,740,312	2,497,767	1,569,479	7,939,932	6,403,130	6,391,970	6,229,950	6,404,170	441,550	82,660	40,587,396
5. Adj. Big Bend Units 1-4 Igniters Conversion Project	383,847	381,664	379,479	377,296	375,113	372,930	371,476	369,221	366,965	364,709	362,456	360,199	4,465,355
5a. Adj. Polk 1 conversion depreciation & ROI	0	0	0	0	0	0	0	0	0	0	0	0	0
5b. Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>6. TOTAL FUEL &amp; NET POWER TRANS.</b>	<b>51,109,208</b>	<b>39,574,621</b>	<b>42,457,737</b>	<b>46,617,148</b>	<b>52,589,881</b>	<b>55,575,874</b>	<b>58,888,669</b>	<b>60,852,499</b>	<b>55,820,275</b>	<b>50,845,095</b>	<b>43,233,485</b>	<b>46,690,306</b>	<b>604,254,798</b>
<sup>(1)</sup> Includes Gains													
B. 1. Jurisdictional MWH Sales	1,409,524	1,410,848	1,397,135	1,381,922	1,647,400	1,893,748	1,895,777	1,889,610	1,980,493	1,789,875	1,495,445	1,426,702	19,618,479
2. Non-Jurisdictional MWH Sales	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>3. TOTAL SALES (LINE B1+B2)</b>	<b>1,409,524</b>	<b>1,410,848</b>	<b>1,397,135</b>	<b>1,381,922</b>	<b>1,647,400</b>	<b>1,893,748</b>	<b>1,895,777</b>	<b>1,889,610</b>	<b>1,980,493</b>	<b>1,789,875</b>	<b>1,495,445</b>	<b>1,426,702</b>	<b>19,618,479</b>
<b>4. Jurisdictional % of Total Sales</b>	<b>1.0000000</b>	<b>1.0000000</b>	<b>1.0000000</b>	<b>1.0000000</b>	<b>1.0000000</b>	<b>1.0000000</b>	<b>1.0000000</b>	<b>1.0000000</b>	<b>1.0000000</b>	<b>1.0000000</b>	<b>1.0000000</b>	<b>1.0000000</b>	<b>-</b>
C. 1. Jurisdictional Fuel Recovery Revenue (Net of Revenue Taxes)	37,659,589	37,625,753	37,045,249	43,642,623	52,821,605	61,699,104	61,957,972	61,718,738	64,757,180	57,787,745	47,492,569	45,193,784	609,401,911
1a. Adjustment to Fuel Revenue	0	0	0	0	0	0	0	0	0	0	0	0	0
2. True-up Provision	584,624	584,624	584,624	(3,949,496)	(3,949,496)	(3,949,496)	(3,949,496)	(3,949,496)	(3,949,496)	(3,949,496)	(3,949,496)	(3,949,494)	(33,791,590)
2a. Incentive Provision	188,418	188,418	188,418	188,418	188,418	188,418	188,418	188,418	188,418	188,418	188,418	188,421	2,261,019
<b>3. FUEL REVENUE APPLICABLE TO PERIOD</b>	<b>38,432,631</b>	<b>38,398,795</b>	<b>37,818,291</b>	<b>39,881,545</b>	<b>49,060,527</b>	<b>57,938,026</b>	<b>58,196,894</b>	<b>57,957,660</b>	<b>60,996,102</b>	<b>54,026,667</b>	<b>43,731,491</b>	<b>41,432,711</b>	<b>577,871,340</b>
4. Total Fuel and Net Power Transactions (Line A6)	51,109,208	39,574,621	42,457,737	46,617,148	52,589,881	55,575,874	58,888,669	60,852,499	55,820,275	50,845,095	43,233,485	46,690,306	604,254,798
5. Jurisd. Total Fuel and Net Power Transactions (Line A6*Line B4)	51,109,208	39,574,621	42,457,737	46,617,148	52,589,881	55,575,874	58,888,669	60,852,499	55,820,275	50,845,095	43,233,485	46,690,306	604,254,798
5a. Jurisdictional Loss Multiplier	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	-
5b. Jurisdictional Sales Adjusted for Line Losses	51,109,208	39,574,621	42,457,737	46,617,148	52,589,881	55,575,874	58,888,669	60,852,499	55,820,275	50,845,095	43,233,485	46,690,306	604,254,798
5c. Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>6. JURISD. TOTAL FUEL AND NET POWER TRANSACTIONS</b>	<b>51,109,208</b>	<b>39,574,621</b>	<b>42,457,737</b>	<b>46,617,148</b>	<b>52,589,881</b>	<b>55,575,874</b>	<b>58,888,669</b>	<b>60,852,499</b>	<b>55,820,275</b>	<b>50,845,095</b>	<b>43,233,485</b>	<b>46,690,306</b>	<b>604,254,798</b>
7. Over/(Under) Recovery	(12,676,577)	(1,175,826)	(4,639,446)	(6,735,603)	(3,529,354)	2,362,152	(691,775)	(2,894,839)	5,175,827	3,181,572	498,006	(5,257,595)	(26,383,458)
7a. Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0
8. Interest Provision	(87,639)	(102,912)	(111,782)	(120,770)	(121,034)	(111,663)	(110,349)	(115,077)	(98,251)	(75,984)	(64,329)	(59,456)	(1,179,246)
<b>9. TOTAL ESTIMATED TRUE-UP FOR THE PERIOD</b>													<b>(27,562,704)</b>

**TAMPA ELECTRIC COMPANY**  
**FUEL AND PURCHASED POWER COST RECOVERY CLAUSE CALCULATION**  
**ACTUAL/ESTIMATED FOR THE PERIOD: JANUARY 2019 THROUGH DECEMBER 2019**

SCHEDULE E2

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	TOTAL PERIOD
	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	
	<b>Actual</b>												
	<b>Estimated</b>												
1. Fuel Cost of System Net Generation	49,606,343	38,597,469	40,176,296	43,477,069	50,800,286	47,406,580	51,830,901	53,810,457	48,923,283	43,794,168	42,168,783	45,957,217	556,548,852
2. Nuclear Fuel Disposal	0	0	0	0	0	0	0	0	0	0	0	0	0
3. Fuel Cost of Power Sold <sup>(1)</sup>	169,947	119,888	111,628	130,003	562,515	437,747	16,118	16,459	17,463	17,582	18,024	18,630	1,636,004
4. Fuel Cost of Purchased Power	35,101	113,816	7,752	19,463	26,772	11,567	0	0	0	0	0	0	214,471
5. Demand and Non-Fuel Cost of Purchased Power	0	0	0	0	0	0	0	0	0	0	0	0	0
6. Payments to Qualifying Facilities	621,159	347,789	265,526	375,556	380,746	282,612	299,280	297,310	317,540	299,630	278,720	308,860	4,074,728
7. Energy Cost of Economy Purchases	632,705	253,771	1,740,312	2,497,767	1,569,479	7,939,932	6,403,130	6,391,970	6,229,950	6,404,170	441,550	82,660	40,587,396
8. Adj. Big Bend Units 1-4 Igniters Conversion Project	383,847	381,664	379,479	377,296	375,113	372,930	371,476	369,221	366,965	364,709	362,456	360,199	4,465,355
9. Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0
10. Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>11. TOTAL FUEL &amp; NET POWER TRANSACTIONS</b>	<b>51,109,208</b>	<b>39,574,621</b>	<b>42,457,737</b>	<b>46,617,148</b>	<b>52,589,881</b>	<b>55,575,874</b>	<b>58,888,669</b>	<b>60,852,499</b>	<b>55,820,275</b>	<b>50,845,095</b>	<b>43,233,485</b>	<b>46,690,306</b>	<b>604,254,798</b>
12. Jurisdictional MWH Sold	1,409,524	1,410,848	1,397,135	1,381,922	1,647,400	1,893,748	1,895,777	1,889,610	1,980,493	1,789,875	1,495,445	1,426,702	19,618,479
13. Jurisdictional % of Total Sales	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	-
14. Jurisdictional Total Fuel & Net Power Transactions (Line 11 * Line 13)	51,109,208	39,574,621	42,457,737	46,617,148	52,589,881	55,575,874	58,888,669	60,852,499	55,820,275	50,845,095	43,233,485	46,690,306	604,254,798
15. Jurisdictional Loss Multiplier	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	-
16. Jurisdictional Sales Adjusted for Line Losses (Line 14 * Line 15)	51,109,208	39,574,621	42,457,737	46,617,148	52,589,881	55,575,874	58,888,669	60,852,499	55,820,275	50,845,095	43,233,485	46,690,306	604,254,798
17. Adjustments	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>18. JURISD. TOTAL FUEL &amp; NET PWR. TRANS. (LINE 16+17)</b>	<b>51,109,208</b>	<b>39,574,621</b>	<b>42,457,737</b>	<b>46,617,148</b>	<b>52,589,881</b>	<b>55,575,874</b>	<b>58,888,669</b>	<b>60,852,499</b>	<b>55,820,275</b>	<b>50,845,095</b>	<b>43,233,485</b>	<b>46,690,306</b>	<b>604,254,798</b>
19. Cost Per kWh Sold (Cents/kWh)	3.6260	2.8050	3.0389	3.3734	3.1923	2.9347	3.1063	3.2204	2.8185	2.8407	2.8910	3.2726	3.0800
20. Adjustment	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21. True-up (Cents/kWh) <sup>(2)</sup>	(0.0415)	(0.0414)	(0.0418)	0.2858	0.2397	0.2086	0.2083	0.2090	0.1994	0.2207	0.2641	0.2768	0.1656
22. Total (Cents/kWh) (Line 19+20)	3.5845	2.7636	2.9971	3.6592	3.4320	3.1433	3.3146	3.4294	3.0179	3.0614	3.1551	3.5494	3.2457
23. Revenue Tax Factor	1.00072	1.00072	1.00072	1.00072	1.00072	1.00072	1.00072	1.00072	1.00072	1.00072	1.00072	1.00072	1.00072
24. Recovery Factor Adjusted for Taxes (Cents/kWh) (Excluding GPIF)	3.5871	2.7656	2.9993	3.6618	3.4345	3.1456	3.3170	3.4318	3.0201	3.0636	3.1574	3.5520	3.2480
25. GPIF Adjusted for Taxes (Cents/kWh) <sup>(2)</sup>	(0.0134)	(0.0134)	(0.0135)	(0.0136)	(0.0114)	(0.0099)	(0.0099)	(0.0100)	(0.0095)	(0.0105)	(0.0126)	(0.0132)	(0.0117)
<b>26. TOTAL RECOVERY FACTOR (LINE 23+24)</b>	<b>3.5737</b>	<b>2.7522</b>	<b>2.9858</b>	<b>3.6482</b>	<b>3.4231</b>	<b>3.1357</b>	<b>3.3071</b>	<b>3.4218</b>	<b>3.0106</b>	<b>3.0531</b>	<b>3.1448</b>	<b>3.5388</b>	<b>3.2363</b>
<b>27. RECOVERY FACTOR ROUNDED TO NEAREST 0.001 CENTS/KWH</b>	<b>3.574</b>	<b>2.752</b>	<b>2.986</b>	<b>3.648</b>	<b>3.423</b>	<b>3.136</b>	<b>3.307</b>	<b>3.422</b>	<b>3.011</b>	<b>3.053</b>	<b>3.145</b>	<b>3.539</b>	<b>3.236</b>

<sup>(1)</sup> Includes Gains

<sup>(2)</sup> Based on Jurisdictional Sales Only

TAMPA ELECTRIC COMPANY  
 GENERATING SYSTEM COMPARATIVE DATA BY FUEL TYPE  
 ACTUAL FOR THE PERIOD: JANUARY 2019 THROUGH JUNE 2019

SCHEDULE E3

	ACTUAL					
	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
<b>FUEL COST OF SYSTEM NET GENERATION (\$)</b>						
1. HEAVY OIL	0	0	0	0	0	0
2. LIGHT OIL	0	0	0	0	17,030	12,035
3. COAL	7,027,027	3,185,512	764,747	3,059,647	5,057,428	5,276,546
4. NATURAL GAS	42,579,316	35,411,957	39,411,549	40,417,422	45,725,828	42,117,999
5. SOLAR	0	0	0	0	0	0
6. OTHER	0	0	0	0	0	0
<b>7. TOTAL (\$)</b>	<b>49,606,343</b>	<b>38,597,469</b>	<b>40,176,296</b>	<b>43,477,069</b>	<b>50,800,286</b>	<b>47,406,580</b>
<b>SYSTEM NET GENERATION (MWH)</b>						
8. HEAVY OIL	0	0	0	0	0	0
9. LIGHT OIL	0	0	0	0	67	0
10. COAL	211,679	91,159	(2,475)	75,504	133,016	150,660
11. NATURAL GAS	1,218,682	1,199,187	1,355,548	1,373,770	1,718,336	1,577,414
12. SOLAR	33,413	44,520	74,096	80,688	78,453	65,742
13. OTHER	0	0	0	0	0	0
<b>14. TOTAL (MWH)</b>	<b>1,463,774</b>	<b>1,334,866</b>	<b>1,427,169</b>	<b>1,529,962</b>	<b>1,929,872</b>	<b>1,793,816</b>
<b>UNITS OF FUEL BURNED</b>						
15. HEAVY OIL (BBL)	0	0	0	0	0	0
16. LIGHT OIL (BBL)	0	0	0	0	133	95
17. COAL (TON)	97,492	41,500	(683)	36,085	65,724	68,443
18. NATURAL GAS (MCF)	9,320,260	9,434,950	10,695,636	11,545,290	13,438,626	11,971,401
19. SOLAR	0	0	0	0	0	0
20. OTHER	0	0	0	0	0	0
<b>BTUS BURNED (MMBTU)</b>						
21. HEAVY OIL	0	0	0	0	0	0
22. LIGHT OIL	0	0	0	0	779	550
23. COAL	2,279,775	979,271	(16,038)	847,090	1,518,292	1,575,025
24. NATURAL GAS	9,515,986	9,623,650	10,898,853	11,776,196	13,720,837	12,258,736
25. SOLAR	0	0	0	0	0	0
26. OTHER	0	0	0	0	0	0
<b>27. TOTAL (MMBTU)</b>	<b>11,795,761</b>	<b>10,602,921</b>	<b>10,882,815</b>	<b>12,623,286</b>	<b>15,239,908</b>	<b>13,834,311</b>
<b>GENERATION MIX (% MWH)</b>						
28. HEAVY OIL	0.00	0.00	0.00	0.00	0.00	0.00
29. LIGHT OIL	0.00	0.00	0.00	0.00	0.00	0.00
30. COAL	14.46	6.82	(0.17)	4.94	6.89	8.40
31. NATURAL GAS	83.26	89.84	94.98	89.79	89.04	87.94
32. SOLAR	2.28	3.34	5.19	5.27	4.07	3.66
33. OTHER	0.00	0.00	0.00	0.00	0.00	0.00
<b>34. TOTAL (%)</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>
<b>FUEL COST PER UNIT</b>						
35. HEAVY OIL (\$/BBL)	0.00	0.00	0.00	0.00	0.00	0.00
36. LIGHT OIL (\$/BBL)	0.00	0.00	0.00	0.00	128.05	126.68
37. COAL (\$/TON)	72.08	76.76	(1,119.69)	84.79	76.95	77.09
38. NATURAL GAS (\$/MCF)	4.57	3.75	3.68	3.50	3.40	3.52
39. SOLAR	0.00	0.00	0.00	0.00	0.00	0.00
40. OTHER	0.00	0.00	0.00	0.00	0.00	0.00
<b>FUEL COST PER MMBTU (\$/MMBTU)</b>						
41. HEAVY OIL	0.00	0.00	0.00	0.00	0.00	0.00
42. LIGHT OIL	0.00	0.00	0.00	0.00	21.86	21.88
43. COAL	3.08	3.25	(47.68)	3.61	3.33	3.35
44. NATURAL GAS	4.47	3.68	3.62	3.43	3.33	3.44
45. SOLAR	0.00	0.00	0.00	0.00	0.00	0.00
46. OTHER	0.00	0.00	0.00	0.00	0.00	0.00
<b>47. TOTAL (\$/MMBTU)</b>	<b>4.21</b>	<b>3.64</b>	<b>3.69</b>	<b>3.44</b>	<b>3.33</b>	<b>3.43</b>
<b>BTU BURNED PER KWH (BTU/KWH)</b>						
48. HEAVY OIL	0	0	0	0	0	0
49. LIGHT OIL	0	0	0	0	11,627	0
50. COAL	10,770	10,742	6,480	11,219	11,414	10,454
51. NATURAL GAS	7,808	8,025	8,040	8,572	7,985	7,771
52. SOLAR	0	0	0	0	0	0
53. OTHER	0	0	0	0	0	0
<b>54. TOTAL (BTU/KWH)</b>	<b>8,058</b>	<b>7,943</b>	<b>7,625</b>	<b>8,251</b>	<b>7,997</b>	<b>7,712</b>
<b>GENERATED FUEL COST PER KWH (CENTS/KWH)</b>						
55. HEAVY OIL	0.00	0.00	0.00	0.00	0.00	0.00
56. LIGHT OIL	0.00	0.00	0.00	0.00	25.42	0.00
57. COAL	3.32	3.49	(30.90)	4.05	3.80	3.50
58. NATURAL GAS	3.49	2.95	2.91	2.94	2.66	2.67
59. SOLAR	0.00	0.00	0.00	0.00	0.00	0.00
60. OTHER	0.00	0.00	0.00	0.00	0.00	0.00
<b>61. TOTAL (CENTS/KWH)</b>	<b>3.39</b>	<b>2.89</b>	<b>2.82</b>	<b>2.84</b>	<b>2.63</b>	<b>2.64</b>



TAMPA ELECTRIC COMPANY  
 GENERATING SYSTEM COMPARATIVE DATA BY FUEL TYPE  
 ESTIMATED FOR THE PERIOD: JULY 2019 THROUGH DECEMBER 2019

SCHEDULE E3

	Estimated					TOTAL
	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	
<b>FUEL COST OF SYSTEM NET GENERATION (\$)</b>						
1. HEAVY OIL	0	0	0	0	0	0
2. LIGHT OIL	317,757	317,757	307,507	302,382	251,131	317,757
3. COAL	4,658,228	4,693,519	2,238,624	674,636	4,678,032	4,760,784
4. NATURAL GAS	46,854,916	48,799,181	46,377,152	42,817,150	37,239,620	40,878,676
5. SOLAR	0	0	0	0	0	0
6. OTHER	0	0	0	0	0	0
<b>7. TOTAL (\$)</b>	<b>51,830,901</b>	<b>53,810,457</b>	<b>48,923,283</b>	<b>43,794,168</b>	<b>42,168,783</b>	<b>45,957,217</b>
<b>SYSTEM NET GENERATION (MWH)</b>						
8. HEAVY OIL	0	0	0	0	0	0
9. LIGHT OIL	1,328	1,328	1,286	1,264	1,050	1,328
10. COAL	108,360	110,260	53,950	16,380	111,700	112,670
11. NATURAL GAS	1,657,841	1,681,471	1,640,824	1,488,826	1,249,270	1,358,781
12. SOLAR	70,760	73,370	68,200	74,050	59,240	52,690
13. OTHER	0	0	0	0	0	0
<b>14. TOTAL (MWH)</b>	<b>1,836,289</b>	<b>1,866,429</b>	<b>1,764,260</b>	<b>1,580,520</b>	<b>1,421,260</b>	<b>1,525,469</b>
<b>UNITS OF FUEL BURNED</b>						
15. HEAVY OIL (BBL)	0	0	0	0	0	0
16. LIGHT OIL (BBL)	2,492	2,492	2,412	2,372	1,970	2,492
17. COAL (TON)	61,590	62,320	30,360	8,840	62,170	62,620
18. NATURAL GAS (MCF)	12,011,552	12,437,362	11,909,232	10,769,902	9,332,892	9,947,872
19. SOLAR	0	0	0	0	0	0
20. OTHER	0	0	0	0	0	0
<b>BTUS BURNED (MMBTU)</b>						
21. HEAVY OIL	0	0	0	0	0	0
22. LIGHT OIL	14,614	14,614	14,143	13,907	11,550	14,614
23. COAL	1,385,820	1,402,120	683,040	198,940	1,398,770	1,408,920
24. NATURAL GAS	12,329,876	12,737,616	12,223,417	11,043,123	9,568,030	10,205,446
25. SOLAR	0	0	0	0	0	0
26. OTHER	0	0	0	0	0	0
<b>27. TOTAL (MMBTU)</b>	<b>13,730,310</b>	<b>14,154,350</b>	<b>12,920,600</b>	<b>11,255,970</b>	<b>10,978,350</b>	<b>11,528,980</b>
<b>GENERATION MIX (% MWH)</b>						
28. HEAVY OIL	0.00	0.00	0.00	0.00	0.00	0.00
29. LIGHT OIL	0.07	0.07	0.07	0.08	0.07	0.09
30. COAL	5.90	5.91	3.06	1.03	7.86	7.39
31. NATURAL GAS	90.18	90.09	93.00	94.20	87.90	89.07
32. SOLAR	3.85	3.93	3.87	4.69	4.17	3.45
33. OTHER	0.00	0.00	0.00	0.00	0.00	0.00
<b>34. TOTAL (%)</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>
<b>FUEL COST PER UNIT</b>						
35. HEAVY OIL (\$/BBL)	0.00	0.00	0.00	0.00	0.00	0.00
36. LIGHT OIL (\$/BBL)	127.51	127.51	127.49	127.48	127.48	127.51
37. COAL (\$/TON)	75.63	75.31	73.74	76.32	75.25	76.03
38. NATURAL GAS (\$/MCF)	3.90	3.92	3.89	3.98	3.99	4.11
39. SOLAR	0.00	0.00	0.00	0.00	0.00	0.00
40. OTHER	0.00	0.00	0.00	0.00	0.00	0.00
<b>FUEL COST PER MMBTU (\$/MMBTU)</b>						
41. HEAVY OIL	0.00	0.00	0.00	0.00	0.00	0.00
42. LIGHT OIL	21.74	21.74	21.74	21.74	21.74	21.74
43. COAL	3.36	3.35	3.28	3.39	3.34	3.37
44. NATURAL GAS	3.80	3.83	3.79	3.88	3.89	4.01
45. SOLAR	0.00	0.00	0.00	0.00	0.00	0.00
46. OTHER	0.00	0.00	0.00	0.00	0.00	0.00
<b>47. TOTAL (\$/MMBTU)</b>	<b>3.77</b>	<b>3.80</b>	<b>3.79</b>	<b>3.89</b>	<b>3.84</b>	<b>3.95</b>
<b>BTU BURNED PER KWH (BTU/KWH)</b>						
48. HEAVY OIL	0	0	0	0	0	0
49. LIGHT OIL	11,005	11,005	10,998	11,002	11,000	11,005
50. COAL	12,789	12,716	12,661	12,145	12,523	12,505
51. NATURAL GAS	7,437	7,575	7,450	7,417	7,659	7,511
52. SOLAR	0	0	0	0	0	0
53. OTHER	0	0	0	0	0	0
<b>54. TOTAL (BTU/KWH)</b>	<b>7,469</b>	<b>7,584</b>	<b>7,324</b>	<b>7,122</b>	<b>7,724</b>	<b>7,623</b>
<b>GENERATED FUEL COST PER KWH (CENTS/KWH)</b>						
55. HEAVY OIL	0.00	0.00	0.00	0.00	0.00	0.00
56. LIGHT OIL	23.93	23.93	23.91	23.92	23.92	23.93
57. COAL	4.30	4.26	4.15	4.12	4.19	4.23
58. NATURAL GAS	2.83	2.90	2.83	2.88	2.98	3.01
59. SOLAR	0.00	0.00	0.00	0.00	0.00	0.00
60. OTHER	0.00	0.00	0.00	0.00	0.00	0.00
<b>61. TOTAL (CENTS/KWH)</b>	<b>2.82</b>	<b>2.88</b>	<b>2.77</b>	<b>2.77</b>	<b>2.97</b>	<b>3.01</b>

SYSTEM NET GENERATION AND FUEL COST  
TAMPA ELECTRIC COMPANY  
MONTH OF: January 2019

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)
PLANT/UNIT	NET CAP-ABILITY (MW)	NET GENERATION (MWH)	NET CAPACITY FACTOR (%)	NET AVAIL. FACTOR (%)	NET OUTPUT FACTOR (%)	AVG. NET HEAT RATE BTU/KWH	FUEL TYPE	FUEL BURNED (UNITS)	FUEL HEAT VALUE (BTU/UNIT)	FUEL BURNED (MM BTU) <sup>(2)</sup>	AS BURNED FUEL COST (\$) <sup>(1)</sup>	FUEL COST PER KWH (cents/KWH)	COST OF FUEL (\$/UNIT)
TIA SOLAR	1.6	224	18.8	-	42.9	-	SOLAR	-	-	-	-	-	-
BIG BEND SOLAR	19.4	2,664	18.5	-	45.0	-	SOLAR	-	-	-	-	-	-
LEGOLAND SOLAR	1.5	135	12.1	-	29.3	-	SOLAR	-	-	-	-	-	-
PAYNE CREEK SOLAR	70.3	8,052	15.4	-	39.4	-	SOLAR	-	-	-	-	-	-
BALM SOLAR	74.4	10,172	18.4	-	44.8	-	SOLAR	-	-	-	-	-	-
LITHIA SOLAR	74.5	9,958	18.0	-	43.8	-	SOLAR	-	-	-	-	-	-
GRANGE HALL SOLAR	61.1	1,725	3.9	-	9.3	-	SOLAR	-	-	-	-	-	-
PEACE CREEK SOLAR	55.4	(27)	-	-	0.0	-	SOLAR	-	-	-	-	-	-
BONNIE MINE SOLAR	37.5	510	6.3	-	13.6	-	SOLAR	-	-	-	-	-	-
<b>SOLAR TOTAL</b>	<b>395.7</b>	<b>33,413</b>	<b>14.4</b>	<b>-</b>	<b>23.0</b>	<b>-</b>	<b>SOLAR</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>BIG BEND #1 TOTAL</b>	<b>315</b>	<b>15,607</b>	<b>6.7</b>	<b>81.1</b>	<b>37.1</b>	<b>13,101</b>	<b>GAS</b>	<b>200,261</b>	<b>1,021,000</b>	<b>204,466.1</b>	<b>914,771</b>	<b>5.86</b>	<b>4.57</b>
<b>BIG BEND #2 TOTAL</b>	<b>350</b>	<b>28,504</b>	<b>10.9</b>	<b>90.6</b>	<b>42.5</b>	<b>11,949</b>	<b>GAS</b>	<b>333,575</b>	<b>1,021,000</b>	<b>340,580.5</b>	<b>1,523,744</b>	<b>5.35</b>	<b>4.57</b>
B.B.#3 (COAL)	400	0	0.0	0.0	0.0	-	COAL	0	0	0.0	0	0.00	0.00
B.B.#3 (GAS)	355	94,022	35.6	92.7	64.3	-	GAS	1,076,345	1,021,000	1,098,948.1	4,916,643	5.23	4.57
<b>BIG BEND #3 TOTAL</b>	<b>355</b>	<b>94,022</b>	<b>35.6</b>	<b>92.7</b>	<b>64.3</b>	<b>11,688</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,098,948.1</b>	<b>4,916,643</b>	<b>5.23</b>	<b>-</b>
B.B.#4 (COAL)	442	214,551	65.2	72.5	81.3	-	COAL	97,492	23,384,223	2,279,774.7	6,908,042	3.22	70.86
B.B.#4 (GAS)	195	7,723	5.3	48.3	88.0	-	GAS	81,425	1,021,000	83,134.6	371,942	4.82	4.57
<b>BIG BEND #4 TOTAL</b>	<b>442</b>	<b>222,274</b>	<b>67.6</b>	<b>72.5</b>	<b>73.8</b>	<b>10,631</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,362,909.3</b>	<b>7,279,984</b>	<b>3.28</b>	<b>-</b>
B.B. IGNITION	-	-	-	-	-	-	GAS	26,048	0	26,595.5	118,985	-	4.57
<b>BIG BEND CT #4 TOTAL</b>	<b>61</b>	<b>227</b>	<b>0.5</b>	<b>94.7</b>	<b>63.4</b>	<b>17,640</b>	<b>GAS</b>	<b>3,922</b>	<b>1,021,000</b>	<b>4,004.3</b>	<b>17,914</b>	<b>7.89</b>	<b>4.57</b>
<b>BIG BEND STATION TOTAL</b>	<b>1,523</b>	<b>360,634</b>	<b>31.8</b>	<b>84.0</b>	<b>36.9</b>	<b>11,122</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,010,908.3</b>	<b>14,772,041</b>	<b>4.10</b>	<b>-</b>
POLK #1 GASIFIER	157	(2,872)	0.0	0.0	0.0	0	COAL	0	0	0.0	0	0.00	0.00
POLK #1 CT (GAS)	177	19,197	14.6	60.2	56.3	12,865	GAS	241,904	1,021,000	246,984.0	1,104,995	4.12	4.57
POLK #1 ST	85	7,643	12.1	60.2	50.8	0	-	-	-	-	-	-	-
<b>POLK #1 TOTAL</b>	<b>245</b>	<b>23,968</b>	<b>13.1</b>	<b>60.2</b>	<b>50.8</b>	<b>10,305</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>246,984.0</b>	<b>1,104,995</b>	<b>4.61</b>	<b>-</b>
POLK #2 ST DUCT FIRING	120	12,531	14.0	-	86.6	8,415	GAS	103,280	1,021,000	105,449.0	471,774	3.76	4.57
POLK #2 ST W/O DUCT FIRING	360	244,806	91.4	-	-	-	-	-	-	-	-	-	-
<b>POLK #2 ST TOTAL</b>	<b>480</b>	<b>257,337</b>	<b>72.1</b>	<b>99.8</b>	<b>72.2</b>	<b>-</b>	<b>GAS</b>	<b>-</b>	<b>-</b>	<b>105,449.0</b>	<b>471,774</b>	<b>0.18</b>	<b>-</b>
POLK #2 CT (GAS)	180	103,735	77.5	99.7	81.4	11,000	GAS	1,117,627	1,021,000	1,141,097.0	5,105,216	4.92	4.57
POLK #2 CT (OIL)	187	0	0.0	100.0	0.0	0	LG.T.OIL	0	0	0.0	0	0.00	0.00
<b>POLK #2 TOTAL</b>	<b>180</b>	<b>103,735</b>	<b>77.5</b>	<b>99.7</b>	<b>81.4</b>	<b>11,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,141,097.0</b>	<b>5,105,216</b>	<b>4.92</b>	<b>-</b>
POLK #3 CT (GAS)	180	106,883	79.8	99.8	82.9	10,843	GAS	1,135,125	1,021,000	1,158,963.0	5,185,148	4.85	4.57
POLK #3 CT (OIL)	187	0	0.00	100.0	0.0	0	LG.T.OIL	0	0	0.0	0	0.00	0.00
<b>POLK #3 TOTAL</b>	<b>180</b>	<b>106,883</b>	<b>79.8</b>	<b>99.8</b>	<b>82.9</b>	<b>10,843</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,158,963.0</b>	<b>5,185,148</b>	<b>4.85</b>	<b>-</b>
<b>POLK #4 TOTAL</b>	<b>180</b>	<b>108,884</b>	<b>81.3</b>	<b>100.0</b>	<b>82.9</b>	<b>10,713</b>	<b>GAS</b>	<b>1,142,473</b>	<b>1,021,000</b>	<b>1,166,465.0</b>	<b>5,218,711</b>	<b>4.79</b>	<b>4.57</b>
<b>POLK #5 TOTAL</b>	<b>180</b>	<b>105,400</b>	<b>78.7</b>	<b>95.5</b>	<b>83.2</b>	<b>10,739</b>	<b>GAS</b>	<b>1,108,599</b>	<b>1,021,000</b>	<b>1,131,880.0</b>	<b>5,063,980</b>	<b>4.80</b>	<b>4.57</b>
<b>POLK #2 CC TOTAL</b>	<b>1,200</b>	<b>682,239</b>	<b>76.4</b>	<b>98.7</b>	<b>76.6</b>	<b>6,895</b>	<b>GAS</b>	<b>-</b>	<b>-</b>	<b>4,703,854.0</b>	<b>21,044,829</b>	<b>3.08</b>	<b>-</b>
<b>POLK STATION TOTAL</b>	<b>1,445</b>	<b>706,207</b>	<b>65.7</b>	<b>92.1</b>	<b>65.8</b>	<b>7,010</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,950,838.0</b>	<b>22,149,824</b>	<b>3.14</b>	<b>-</b>

(3)

(3)

SYSTEM NET GENERATION AND FUEL COST  
TAMPA ELECTRIC COMPANY  
MONTH OF: January 2019

SCHEDULE A4  
PAGE 2 OF 2  
REVISED 6/20/19

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)
PLANT/UNIT	NET CAP-ABILITY (MW)	NET GENERATION (MWH)	NET CAPACITY FACTOR (%)	NET AVAIL. FACTOR (%)	NET OUTPUT FACTOR (%)	AVG. NET HEAT RATE BTU/KWH	FUEL TYPE	FUEL BURNED (UNITS)	FUEL HEAT VALUE (BTU/UNIT)	FUEL BURNED (MM BTU) <sup>(2)</sup>	AS BURNED FUEL COST (\$) <sup>(1)</sup>	FUEL COST PER KWH (cents/KWH)	COST OF FUEL (\$/UNIT)
BAYSIDE ST 1	243	101,589	56.2	100.0	56.2	-		-	-	-	-	-	-
BAYSIDE CT1A	183	57,706	42.4	99.8	64.2	12,122	GAS	685,101	1,021,000	699,487.7	3,130,768	5.43	4.57
BAYSIDE CT1B	183	60,991	44.8	100.0	65.4	12,038	GAS	719,124	1,021,000	734,225.9	3,286,246	5.39	4.57
BAYSIDE CT1C	183	60,820	44.7	100.0	64.5	11,837	GAS	705,129	1,021,000	719,936.9	3,222,293	5.30	4.57
<b>BAYSIDE UNIT 1 TOTAL</b>	<b>792</b>	<b>281,106</b>	<b>47.7</b>	<b>99.9</b>	<b>47.7</b>	<b>7,661</b>	<b>GAS</b>	<b>2,109,354</b>	<b>1,021,000</b>	<b>2,153,650.6</b>	<b>9,639,307</b>	<b>3.43</b>	<b>4.57</b>
BAYSIDE ST 2	315	27,013	11.5	35.7	35.5	-		-	-	-	-	-	-
BAYSIDE CT2A	183	9,001	6.6	43.6	65.7	12,057	GAS	106,293	1,021,000	108,525.4	485,737	5.40	4.57
BAYSIDE CT2B	183	7,087	5.2	43.7	65.6	12,391	GAS	86,009	1,021,000	87,815.5	393,043	5.55	4.57
BAYSIDE CT2C	183	13,638	10.0	36.4	62.7	12,425	GAS	165,965	1,021,000	169,449.8	758,425	5.56	4.57
BAYSIDE CT2D	183	23,969	17.6	42.3	62.0	12,328	GAS	289,418	1,021,000	295,495.8	1,322,580	5.52	4.57
<b>BAYSIDE UNIT 2 TOTAL</b>	<b>1,047</b>	<b>80,708</b>	<b>10.4</b>	<b>33.7</b>	<b>31.9</b>	<b>8,194</b>	<b>GAS</b>	<b>647,685</b>	<b>1,021,000</b>	<b>661,286.5</b>	<b>2,959,785</b>	<b>3.67</b>	<b>4.57</b>
<b>BAYSIDE UNIT 3 TOTAL</b>	<b>61</b>	<b>73</b>	<b>0.2</b>	<b>100.0</b>	<b>66.1</b>	<b>15,021</b>	<b>GAS</b>	<b>1,074</b>	<b>1,021,000</b>	<b>1,096.5</b>	<b>4,908</b>	<b>6.72</b>	<b>4.57</b>
<b>BAYSIDE UNIT 4 TOTAL</b>	<b>61</b>	<b>367</b>	<b>0.8</b>	<b>100.0</b>	<b>90.5</b>	<b>10,674</b>	<b>GAS</b>	<b>3,837</b>	<b>1,021,000</b>	<b>3,917.4</b>	<b>17,533</b>	<b>4.78</b>	<b>4.57</b>
<b>BAYSIDE UNIT 5 TOTAL</b>	<b>61</b>	<b>537</b>	<b>1.2</b>	<b>100.0</b>	<b>83.6</b>	<b>11,900</b>	<b>GAS</b>	<b>6,259</b>	<b>1,021,000</b>	<b>6,390.3</b>	<b>28,602</b>	<b>5.33</b>	<b>4.57</b>
<b>BAYSIDE UNIT 6 TOTAL</b>	<b>61</b>	<b>729</b>	<b>1.6</b>	<b>100.0</b>	<b>89.9</b>	<b>10,525</b>	<b>GAS</b>	<b>7,515</b>	<b>1,021,000</b>	<b>7,673.0</b>	<b>34,343</b>	<b>4.71</b>	<b>4.57</b>
<b>BAYSIDE STATION TOTAL</b>	<b>2,083</b>	<b>363,520</b>	<b>23.5</b>	<b>66.6</b>	<b>23.5</b>	<b>7,796</b>	<b>GAS</b>	<b>2,775,724</b>	<b>1,021,000</b>	<b>2,834,014.4</b>	<b>12,684,478</b>	<b>3.49</b>	<b>4.57</b>
<b>SYSTEM</b>	<b>5,447</b>	<b>1,463,774</b>	<b>36.7</b>	<b>79.2</b>	<b>39.1</b>	<b>8,058</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>11,795,760.6</b>	<b>49,606,343</b>	<b>3.39</b>	<b>-</b>

LEGEND:  
B.B. = BIG BEND  
CT = COMBUSTION TURBINE

CC = COMBINED CYCLE  
ST = STEAM TURBINE

Footnotes:  
<sup>(1)</sup> As burned fuel cost system total includes ignition.  
<sup>(2)</sup> Fuel burned (MM BTU) system total excludes ignition.  
<sup>(3)</sup> Station Service

SYSTEM NET GENERATION AND FUEL COST  
TAMPA ELECTRIC COMPANY  
MONTH OF: February 2019

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)
PLANT/UNIT	NET CAP-ABILITY (MW)	NET GENERATION (MWH)	NET CAPACITY FACTOR (%)	NET AVAIL. FACTOR (%)	NET OUTPUT FACTOR (%)	AVG. NET HEAT RATE BTU/KWH	FUEL TYPE	FUEL BURNED (UNITS)	FUEL HEAT VALUE (BTU/UNIT)	FUEL BURNED (MM BTU) <sup>(2)</sup>	AS BURNED FUEL COST (\$) <sup>(1)</sup>	FUEL COST PER KWH (cents/KWH)	COST OF FUEL (\$/UNIT)
TIA SOLAR	1.6	220	20.5	-	36.8	-	SOLAR	-	-	-	-	-	-
BIG BEND SOLAR	19.4	2,664	20.4	-	45.9	-	SOLAR	-	-	-	-	-	-
LEGOLAND SOLAR	1.5	131	13.0	-	28.9	-	SOLAR	-	-	-	-	-	-
PAYNE CREEK SOLAR	70.3	8,999	19.0	-	43.5	-	SOLAR	-	-	-	-	-	-
BALM SOLAR	74.4	8,417	16.8	-	38.5	-	SOLAR	-	-	-	-	-	-
LITHIA SOLAR	74.5	11,289	22.5	-	50.8	-	SOLAR	-	-	-	-	-	-
GRANGE HALL SOLAR	61.1	7,613	18.5	-	40.7	-	SOLAR	-	-	-	-	-	-
PEACE CREEK SOLAR	55.4	833	-	-	11.6	-	SOLAR	-	-	-	-	-	-
BONNIE MINE SOLAR	37.5	4,354	17.3	-	37.8	-	SOLAR	-	-	-	-	-	-
<b>SOLAR TOTAL</b>	<b>395.7</b>	<b>44,520</b>	<b>19.5</b>	<b>-</b>	<b>26.8</b>	<b>-</b>	<b>SOLAR</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>BIG BEND #1 TOTAL</b>	<b>315</b>	<b>0</b>	<b>0.0</b>	<b>35.0</b>	<b>0.0</b>	<b>0</b>	<b>GAS</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0.00</b>	<b>0.00</b>
<b>BIG BEND #2 TOTAL</b>	<b>350</b>	<b>69,440</b>	<b>29.5</b>	<b>53.3</b>	<b>50.5</b>	<b>12,081</b>	<b>GAS</b>	<b>822,440</b>	<b>1,020,000</b>	<b>838,888.9</b>	<b>3,086,449</b>	<b>4.44</b>	<b>3.75</b>
B.B.#3 (COAL)	400	0	0.0	0.0	0.0	-	COAL	0	0	0.0	0	0.00	0.00
B.B.#3 (GAS)	355	164,819	69.1	95.0	71.4	-	GAS	1,714,122	1,020,000	1,748,404.6	6,432,750	3.90	3.75
<b>BIG BEND #3 TOTAL</b>	<b>355</b>	<b>164,819</b>	<b>69.1</b>	<b>95.0</b>	<b>71.4</b>	<b>10,608</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,748,404.6</b>	<b>6,432,750</b>	<b>3.90</b>	<b>-</b>
B.B.#4 (COAL)	442	93,724	31.6	82.3	86.2	-	COAL	41,500	23,598,830	979,271.4	3,252,540	3.47	78.37
B.B.#4 (GAS)	195	5,332	4.1	99.9	68.4	-	GAS	54,443	1,020,000	55,531.6	204,314	3.83	3.75
<b>BIG BEND #4 TOTAL</b>	<b>442</b>	<b>99,056</b>	<b>33.3</b>	<b>82.3</b>	<b>78.4</b>	<b>10,285</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,034,803.0</b>	<b>3,456,854</b>	<b>3.49</b>	<b>-</b>
B.B. IGNITION	-	-	-	-	-	-	GAS	23,271	0	23,736.4	87,333	-	3.75
<b>BIG BEND CT #4 TOTAL</b>	<b>61</b>	<b>224</b>	<b>0.5</b>	<b>100.0</b>	<b>45.9</b>	<b>15,463</b>	<b>GAS</b>	<b>3,396</b>	<b>1,020,000</b>	<b>3,463.8</b>	<b>12,745</b>	<b>5.69</b>	<b>3.75</b>
<b>BIG BEND STATION TOTAL</b>	<b>1,523</b>	<b>333,539</b>	<b>32.6</b>	<b>69.5</b>	<b>32.6</b>	<b>10,822</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,625,560.3</b>	<b>13,076,131</b>	<b>3.92</b>	<b>-</b>
POLK #1 GASIFIER <sup>(3)</sup>	157	(2,565)	0.0	19.7	0.0	0	COAL	0	0	0.0	(154,361)	6.02	0.00
POLK #1 CT (GAS)	177	4,984	4.2	18.0	52.8	12,547	GAS	61,309	1,020,000	62,535.0	230,079	3.35	3.75
POLK #1 ST	85	1,876	3.3	18.0	32.9	0	-	-	-	-	-	-	-
<b>POLK #1 TOTAL</b>	<b>245</b>	<b>4,295</b>	<b>2.6</b>	<b>18.0</b>	<b>32.9</b>	<b>14,559</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>62,535.0</b>	<b>75,718</b>	<b>1.76</b>	<b>-</b>
POLK #2 ST DUCT FIRING	120	3,135	3.9	-	59.3	9,852	GAS	30,284	1,020,000	30,890.0	113,651	3.63	3.75
POLK #2 ST W/O DUCT FIRING	360	134,215	55.5	-	-	-	-	-	-	-	-	-	-
<b>POLK #2 ST TOTAL</b>	<b>480</b>	<b>137,350</b>	<b>42.6</b>	<b>95.4</b>	<b>44.5</b>	<b>-</b>	<b>GAS</b>	<b>-</b>	<b>-</b>	<b>30,890.0</b>	<b>113,651</b>	<b>0.08</b>	<b>-</b>
POLK #2 CT (GAS)	180	53,346	44.1	99.9	75.4	11,163	GAS	583,833	1,020,000	595,510.0	2,191,006	4.11	3.75
POLK #2 CT (OIL)	187	0	0.0	99.9	0.0	0	LGT.OIL	0	0	0.0	0	0.00	0.00
<b>POLK #2 TOTAL</b>	<b>180</b>	<b>53,346</b>	<b>44.1</b>	<b>99.9</b>	<b>75.4</b>	<b>11,163</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>595,510.0</b>	<b>2,191,006</b>	<b>4.11</b>	<b>-</b>
POLK #3 CT (GAS)	180	67,003	55.4	99.4	78.4	10,957	GAS	719,761	1,020,000	734,156.0	2,701,114	4.03	3.75
POLK #3 CT (OIL)	187	0	0.00	0.0	0.0	0	LGT.OIL	0	0	0.0	0	0.00	0.00
<b>POLK #3 TOTAL</b>	<b>180</b>	<b>67,003</b>	<b>55.4</b>	<b>99.4</b>	<b>78.4</b>	<b>10,957</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>734,156.0</b>	<b>2,701,114</b>	<b>4.03</b>	<b>-</b>
<b>POLK #4 TOTAL</b>	<b>180</b>	<b>48,721</b>	<b>40.3</b>	<b>99.5</b>	<b>78.1</b>	<b>10,840</b>	<b>GAS</b>	<b>517,770</b>	<b>1,020,000</b>	<b>528,125.0</b>	<b>1,943,083</b>	<b>3.99</b>	<b>3.75</b>
<b>POLK #5 TOTAL</b>	<b>180</b>	<b>71,478</b>	<b>59.1</b>	<b>100.0</b>	<b>78.5</b>	<b>10,860</b>	<b>GAS</b>	<b>761,062</b>	<b>1,020,000</b>	<b>776,283.0</b>	<b>2,856,108</b>	<b>4.00</b>	<b>3.75</b>
<b>POLK #2 CC TOTAL</b>	<b>1,200</b>	<b>377,898</b>	<b>46.9</b>	<b>95.3</b>	<b>49.0</b>	<b>7,052</b>	<b>GAS</b>	<b>-</b>	<b>-</b>	<b>2,664,964.0</b>	<b>9,804,962</b>	<b>2.59</b>	<b>-</b>
<b>POLK STATION TOTAL</b>	<b>1,445</b>	<b>382,193</b>	<b>39.4</b>	<b>82.2</b>	<b>41.1</b>	<b>7,136</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,727,499.0</b>	<b>9,880,680</b>	<b>2.59</b>	<b>-</b>

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SYSTEM NET GENERATION AND FUEL COST  
TAMPA ELECTRIC COMPANY  
MONTH OF: February 2019

SCHEDULE A4  
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REVISED 6/20/19

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)
PLANT/UNIT	NET CAP-ABILITY (MW)	NET GENERATION (MWH)	NET CAPACITY FACTOR (%)	NET AVAIL. FACTOR (%)	NET OUTPUT FACTOR (%)	AVG. NET HEAT RATE BTU/KWH	FUEL TYPE	FUEL BURNED (UNITS)	FUEL HEAT VALUE (BTU/UNIT)	FUEL BURNED (MM BTU) <sup>(2)</sup>	AS BURNED FUEL COST (\$) <sup>(1)</sup>	FUEL COST PER KWH (cents/KWH)	COST OF FUEL (\$/UNIT)
BAYSIDE ST 1	243	94,226	57.7	85.4	65.0	-		-	-	-	-	-	-
BAYSIDE CT1A	183	58,237	47.4	81.6	70.6	11,491	GAS	656,078	1,020,000	669,199.0	2,462,837	4.23	3.75
BAYSIDE CT1B	183	53,110	43.2	85.4	72.7	11,378	GAS	592,448	1,020,000	604,296.9	2,223,978	4.19	3.75
BAYSIDE CT1C	183	62,790	51.1	88.9	71.2	11,183	GAS	688,407	1,020,000	702,175.1	2,584,198	4.12	3.75
<b>BAYSIDE UNIT 1 TOTAL</b>	<b>792</b>	<b>268,363</b>	<b>50.4</b>	<b>87.8</b>	<b>56.8</b>	<b>7,362</b>	<b>GAS</b>	<b>1,936,933</b>	<b>1,020,000</b>	<b>1,975,671.1</b>	<b>7,271,013</b>	<b>2.71</b>	<b>3.75</b>
BAYSIDE ST 2	315	105,336	49.8	63.3	56.3	-		-	-	-	-	-	-
BAYSIDE CT2A	183	46,703	38.0	58.9	73.5	11,061	GAS	506,444	1,020,000	516,573.4	1,901,131	4.07	3.75
BAYSIDE CT2B	183	57,290	46.6	74.3	72.3	11,348	GAS	637,356	1,020,000	650,103.5	2,392,559	4.18	3.75
BAYSIDE CT2C	183	45,446	37.0	66.7	70.4	11,459	GAS	510,566	1,020,000	520,777.8	1,916,604	4.22	3.75
BAYSIDE CT2D	183	50,770	41.3	67.8	70.6	11,388	GAS	566,819	1,020,000	578,155.1	2,127,771	4.19	3.75
<b>BAYSIDE UNIT 2 TOTAL</b>	<b>1,047</b>	<b>305,545</b>	<b>43.4</b>	<b>80.8</b>	<b>49.1</b>	<b>7,415</b>	<b>GAS</b>	<b>2,221,185</b>	<b>1,020,000</b>	<b>2,265,609.7</b>	<b>8,338,065</b>	<b>2.73</b>	<b>3.75</b>
BAYSIDE UNIT 3 TOTAL <sup>(3)</sup>	61	(26)	0.0	97.6	0.0	0	GAS	0	1,020,000	0.0	0	0.00	0.00
BAYSIDE UNIT 4 TOTAL <sup>(3)</sup>	61	(11)	0.0	97.6	0.0	0	GAS	0	1,020,000	0.0	0	0.00	0.00
BAYSIDE UNIT 5 TOTAL	61	651	1.6	96.1	82.1	11,455	GAS	7,311	1,020,000	7,457.5	27,446	4.22	3.75
BAYSIDE UNIT 6 TOTAL	61	92	0.2	96.2	75.4	12,209	GAS	1,101	1,020,000	1,123.2	4,134	4.49	3.75
<b>BAYSIDE STATION TOTAL</b>	<b>2,083</b>	<b>574,614</b>	<b>41.1</b>	<b>85.3</b>	<b>41.1</b>	<b>7,396</b>	<b>GAS</b>	<b>4,166,530</b>	<b>1,020,000</b>	<b>4,249,861.5</b>	<b>15,640,658</b>	<b>2.72</b>	<b>3.75</b>
<b>SYSTEM</b>	<b>5,447</b>	<b>1,334,866</b>	<b>36.8</b>	<b>79.7</b>	<b>40.1</b>	<b>7,931</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>10,602,920.8</b>	<b>38,597,469</b>	<b>2.89</b>	<b>-</b>

LEGEND:  
B.B. = BIG BEND  
CT = COMBUSTION TURBINE

CC = COMBINED CYCLE  
ST = STEAM TURBINE

Footnotes:  
<sup>(1)</sup> As burned fuel cost system total includes ignition.  
<sup>(2)</sup> Fuel burned (MM BTU) system total excludes ignition.  
<sup>(3)</sup> Station Service

SYSTEM NET GENERATION AND FUEL COST  
TAMPA ELECTRIC COMPANY  
MONTH OF: March 2019

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)
PLANT/UNIT	NET CAP-ABILITY (MW)	NET GENERATION (MWH)	NET CAPACITY FACTOR (%)	NET AVAIL. FACTOR (%)	NET OUTPUT FACTOR (%)	AVG. NET HEAT RATE BTU/KWH	FUEL TYPE	FUEL BURNED (UNITS)	FUEL HEAT VALUE (BTU/UNIT)	FUEL BURNED (MM BTU) (2)	AS BURNED FUEL COST (\$) (1)	FUEL COST PER KWH (cents/KWH)	COST OF FUEL (\$/UNIT)
TIA SOLAR	1.6	302	25.4	-	53.6	-	SOLAR	-	-	-	-	-	-
BIG BEND SOLAR	19.4	3,804	26.4	-	56.3	-	SOLAR	-	-	-	-	-	-
LEGOLAND SOLAR	1.5	186	16.7	-	35.0	-	SOLAR	-	-	-	-	-	-
PAYNE CREEK SOLAR	70.3	12,806	24.5	-	52.6	-	SOLAR	-	-	-	-	-	-
BALM SOLAR	74.4	12,836	23.2	-	49.9	-	SOLAR	-	-	-	-	-	-
LITHIA SOLAR	74.5	16,044	28.9	-	61.7	-	SOLAR	-	-	-	-	-	-
GRANGE HALL SOLAR	61.1	10,873	23.9	-	50.8	-	SOLAR	-	-	-	-	-	-
PEACE CREEK SOLAR	55.4	9,886	24.0	-	51.2	-	SOLAR	-	-	-	-	-	-
BONNIE MINE SOLAR	37.5	7,359	26.4	-	55.3	-	SOLAR	-	-	-	-	-	-
<b>SOLAR TOTAL</b>	<b>395.7</b>	<b>74,096</b>	<b>25.2</b>	<b>-</b>	<b>46.9</b>	<b>-</b>	<b>SOLAR</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>BIG BEND #1 TOTAL</b>	<b>315</b>	<b>95,509</b>	<b>40.8</b>	<b>66.5</b>	<b>61.1</b>	<b>12,669</b>	<b>GAS</b>	<b>1,187,469</b>	<b>1,019,000</b>	<b>1,210,030.5</b>	<b>4,375,127</b>	<b>4.58</b>	<b>3.68</b>
<b>BIG BEND #2 TOTAL</b>	<b>350</b>	<b>22,089</b>	<b>8.5</b>	<b>68.0</b>	<b>49.4</b>	<b>13,471</b>	<b>GAS</b>	<b>292,010</b>	<b>1,019,000</b>	<b>297,558.1</b>	<b>1,075,885</b>	<b>4.87</b>	<b>3.68</b>
B.B.#3 (COAL)	400	0	0.0	0.0	0.0	-	COAL	0	0	0.0	0	0.00	0.00
B.B.#3 (GAS)	355	73,668	27.9	78.6	66.1	-	GAS	773,392	1,019,000	788,086.7	2,849,498	3.87	3.68
<b>BIG BEND #3 TOTAL</b>	<b>355</b>	<b>73,668</b>	<b>27.9</b>	<b>78.6</b>	<b>66.1</b>	<b>10,698</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>788,086.7</b>	<b>2,849,498</b>	<b>3.87</b>	<b>-</b>
B.B.#4 (COAL)	442	0	0.0	80.3	0.0	-	COAL	(683)	0	(16,038.0)	696,128	0.00	(1,019.22)
B.B.#4 (GAS)	195	0	0.0	80.3	0.0	-	GAS	0	1,019,000	0.0	0	0.00	0.00
<b>BIG BEND #4 TOTAL</b>	<b>442</b>	<b>0</b>	<b>0.0</b>	<b>80.3</b>	<b>0.0</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>(16,038.0)</b>	<b>696,128</b>	<b>0.00</b>	<b>-</b>
B.B. IGNITION	-	-	-	-	-	-	GAS	18,624	0	18,978.0	68,619	-	3.68
<b>BIG BEND CT #4 TOTAL</b>	<b>61</b>	<b>128</b>	<b>0.3</b>	<b>79.3</b>	<b>49.4</b>	<b>21,896</b>	<b>GAS</b>	<b>2,750</b>	<b>1,019,000</b>	<b>2,802.7</b>	<b>10,135</b>	<b>7.92</b>	<b>3.69</b>
<b>BIG BEND STATION TOTAL</b>	<b>1,523</b>	<b>191,394</b>	<b>16.9</b>	<b>74.2</b>	<b>25.3</b>	<b>12,009</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,282,440.1</b>	<b>9,075,392</b>	<b>4.74</b>	<b>-</b>
POLK #1 GASIFIER	157	(2,475)	0.0	0.0	0.0	0	COAL	0	0	0.0	0	0.00	0.00
POLK #1 CT (GAS)	177	45,114	36.5	81.8	59.3	12,235	GAS	541,667	1,019,000	551,959.0	1,995,726	3.14	3.68
POLK #1 ST	85	18,473	29.2	82.0	48.1	0	-	-	-	-	-	-	-
<b>POLK #1 TOTAL</b>	<b>245</b>	<b>61,112</b>	<b>33.9</b>	<b>81.8</b>	<b>55.1</b>	<b>9,032</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>551,959.0</b>	<b>1,995,726</b>	<b>3.27</b>	<b>-</b>
POLK #2 ST DUCT FIRING	120	8,377	9.4	-	85.6	8,400	GAS	69,056	1,019,000	70,368.0	254,431	3.04	3.68
POLK #2 ST W/O DUCT FIRING	360	188,172	70.4	-	-	-	-	-	-	-	-	-	-
<b>POLK #2 ST TOTAL</b>	<b>480</b>	<b>196,549</b>	<b>55.0</b>	<b>99.6</b>	<b>85.6</b>	<b>-</b>	<b>GAS</b>	<b>-</b>	<b>-</b>	<b>70,368.0</b>	<b>254,431</b>	<b>0.13</b>	<b>-</b>
POLK #2 CT (GAS)	180	78,280	58.5	98.1	82.4	11,192	GAS	859,777	1,019,000	876,113.0	3,167,775	4.05	3.68
POLK #2 CT (OIL)	187	0	0.0	98.1	0.0	0	LGT.OIL	0	0	0.0	0	0.00	0.00
<b>POLK #2 TOTAL</b>	<b>180</b>	<b>78,280</b>	<b>58.5</b>	<b>98.1</b>	<b>82.4</b>	<b>11,192</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>876,113.0</b>	<b>3,167,775</b>	<b>4.05</b>	<b>-</b>
POLK #3 CT (GAS)	180	81,277	60.7	100.0	79.1	11,014	GAS	878,463	1,019,000	895,154.0	3,236,622	3.98	3.68
POLK #3 CT (OIL)	187	0	0.00	0.0	0.0	0	LGT.OIL	0	0	0.0	0	0.00	0.00
<b>POLK #3 TOTAL</b>	<b>180</b>	<b>81,277</b>	<b>60.7</b>	<b>100.0</b>	<b>79.1</b>	<b>11,014</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>895,154.0</b>	<b>3,236,622</b>	<b>3.98</b>	<b>-</b>
<b>POLK #4 TOTAL</b>	<b>180</b>	<b>87,742</b>	<b>65.5</b>	<b>100.0</b>	<b>80.3</b>	<b>10,826</b>	<b>GAS</b>	<b>932,155</b>	<b>1,019,000</b>	<b>949,866.0</b>	<b>3,434,445</b>	<b>3.91</b>	<b>3.68</b>
<b>POLK #5 TOTAL</b>	<b>180</b>	<b>83,840</b>	<b>62.6</b>	<b>100.0</b>	<b>79.6</b>	<b>10,886</b>	<b>GAS</b>	<b>895,687</b>	<b>1,019,000</b>	<b>912,705.0</b>	<b>3,300,081</b>	<b>3.94</b>	<b>3.68</b>
<b>POLK #2 CC TOTAL</b>	<b>1,200</b>	<b>527,688</b>	<b>59.1</b>	<b>99.5</b>	<b>59.1</b>	<b>7,020</b>	<b>GAS</b>	<b>-</b>	<b>-</b>	<b>3,704,206.0</b>	<b>13,393,354</b>	<b>2.54</b>	<b>-</b>
<b>POLK STATION TOTAL</b>	<b>1,445</b>	<b>588,800</b>	<b>54.9</b>	<b>96.6</b>	<b>54.9</b>	<b>7,229</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,256,165.0</b>	<b>15,389,080</b>	<b>2.61</b>	<b>-</b>

(4)

(3)

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SYSTEM NET GENERATION AND FUEL COST  
TAMPA ELECTRIC COMPANY  
MONTH OF: March 2019

SCHEDULE A4  
PAGE 2 OF 2  
REVISED 6/20/19

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)
PLANT/UNIT	NET CAP-ABILITY (MW)	NET GENERATION (MWH)	NET CAPACITY FACTOR (%)	NET AVAIL. FACTOR (%)	NET OUTPUT FACTOR (%)	AVG. NET HEAT RATE BTU/KWH	FUEL TYPE	FUEL BURNED (UNITS)	FUEL HEAT VALUE (BTU/UNIT)	FUEL BURNED (MM BTU) <sup>(2)</sup>	AS BURNED FUEL COST (\$) <sup>(1)</sup>	FUEL COST PER KWH (cents/KWH)	COST OF FUEL (\$/UNIT)
BAYSIDE ST 1	243	0	0.0	0.0	0.0	-		-	-	-	-	-	-
BAYSIDE CT1A	(3) 183	(163)	0.0	0.0	0.0	0	GAS	0	1,019,000	0.0	0	0.00	0.00
BAYSIDE CT1B	(3) 183	(163)	0.0	0.0	0.0	0	GAS	0	1,019,000	0.0	0	0.00	0.00
BAYSIDE CT1C	(3) 183	(163)	0.0	0.0	0.0	0	GAS	0	1,019,000	0.0	0	0.00	0.00
<b>BAYSIDE UNIT 1 TOTAL</b>	<b>792</b>	<b>(489)</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0</b>	<b>GAS</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0.00</b>	<b>0.00</b>
BAYSIDE ST 2	315	198,694	84.8	98.5	86.0	-		-	-	-	-	-	-
BAYSIDE CT2A	183	91,726	67.5	99.9	71.6	11,388	GAS	1,025,131	1,019,000	1,044,608.4	3,778,065	4.12	3.69
BAYSIDE CT2B	183	91,663	67.4	100.0	71.1	11,665	GAS	1,049,351	1,019,000	1,069,288.4	3,867,326	4.22	3.69
BAYSIDE CT2C	183	93,745	67.3	100.0	69.7	11,676	GAS	1,074,189	1,019,000	1,094,599.0	3,958,865	4.22	3.69
BAYSIDE CT2D	183	96,346	70.8	100.0	70.8	11,642	GAS	1,100,738	1,019,000	1,121,652.5	4,056,710	4.21	3.69
<b>BAYSIDE UNIT 2 TOTAL</b>	<b>1,047</b>	<b>572,174</b>	<b>86.9</b>	<b>99.5</b>	<b>86.9</b>	<b>7,568</b>	<b>GAS</b>	<b>4,249,409</b>	<b>1,019,000</b>	<b>4,330,148.3</b>	<b>15,660,966</b>	<b>2.74</b>	<b>3.69</b>
<b>BAYSIDE UNIT 3 TOTAL</b>	<b>61</b>	<b>168</b>	<b>0.4</b>	<b>90.5</b>	<b>63.8</b>	<b>12,604</b>	<b>GAS</b>	<b>2,078</b>	<b>1,019,000</b>	<b>2,117.4</b>	<b>7,658</b>	<b>4.56</b>	<b>3.69</b>
<b>BAYSIDE UNIT 4 TOTAL</b>	<b>61</b>	<b>224</b>	<b>0.5</b>	<b>99.6</b>	<b>72.6</b>	<b>11,112</b>	<b>GAS</b>	<b>2,443</b>	<b>1,019,000</b>	<b>2,489.0</b>	<b>9,002</b>	<b>4.02</b>	<b>3.68</b>
<b>BAYSIDE UNIT 5 TOTAL</b>	<b>61</b>	<b>481</b>	<b>1.1</b>	<b>99.6</b>	<b>74.0</b>	<b>12,030</b>	<b>GAS</b>	<b>5,679</b>	<b>1,019,000</b>	<b>5,786.2</b>	<b>20,927</b>	<b>4.35</b>	<b>3.68</b>
<b>BAYSIDE UNIT 6 TOTAL</b>	<b>61</b>	<b>321</b>	<b>0.7</b>	<b>99.6</b>	<b>66.8</b>	<b>11,431</b>	<b>GAS</b>	<b>3,601</b>	<b>1,019,000</b>	<b>3,669.2</b>	<b>13,271</b>	<b>4.13</b>	<b>3.69</b>
<b>BAYSIDE STATION TOTAL</b>	<b>2,083</b>	<b>572,879</b>	<b>43.8</b>	<b>70.2</b>	<b>43.8</b>	<b>7,583</b>	<b>GAS</b>	<b>4,263,210</b>	<b>1,019,000</b>	<b>4,344,210.2</b>	<b>15,711,824</b>	<b>2.74</b>	<b>3.69</b>
<b>SYSTEM</b>	<b>5,447</b>	<b>1,427,169</b>	<b>35.2</b>	<b>78.9</b>	<b>40.3</b>	<b>7,637</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>10,882,815.2</b>	<b>40,176,296</b>	<b>2.82</b>	<b>-</b>

LEGEND:  
B.B. = BIG BEND  
CT = COMBUSTION TURBINE

CC = COMBINED CYCLE  
ST = STEAM TURBINE

Footnotes:  
<sup>(1)</sup> As burned fuel cost system total includes ignition.  
<sup>(2)</sup> Fuel burned (MM BTU) system total excludes ignition.  
<sup>(3)</sup> Station Service

<sup>(4)</sup> Includes adjustment of (683) tons consumed, \$171,336.31 of fuel expense and (16,038.0) mmbtu's for February 2019.

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SYSTEM NET GENERATION AND FUEL COST  
TAMPA ELECTRIC COMPANY  
MONTH OF: April 2019

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)
PLANT/UNIT	NET CAP-ABILITY (MW)	NET GENERATION (MWH)	NET CAPACITY FACTOR (%)	NET AVAIL. FACTOR (%)	NET OUTPUT FACTOR (%)	AVG. NET HEAT RATE BTU/KWH	FUEL TYPE	FUEL BURNED (UNITS)	FUEL HEAT VALUE (BTU/UNIT)	FUEL BURNED (MM BTU) <sup>(2)</sup>	AS BURNED FUEL COST (\$) <sup>(1)</sup>	FUEL COST PER KWH (cents/KWH)	COST OF FUEL (\$/UNIT)
TIA SOLAR	1.6	322	28.0	-	53.1	-	SOLAR	-	-	-	-	-	-
BIG BEND SOLAR	19.4	4,256	30.5	-	65.6	-	SOLAR	-	-	-	-	-	-
LEGOLAND SOLAR	1.5	214	19.8	-	42.3	-	SOLAR	-	-	-	-	-	-
PAYNE CREEK SOLAR	70.3	14,130	27.9	-	60.5	-	SOLAR	-	-	-	-	-	-
BALM SOLAR	74.4	15,276	28.5	-	62.4	-	SOLAR	-	-	-	-	-	-
LITHIA SOLAR	74.5	12,797	23.9	-	51.7	-	SOLAR	-	-	-	-	-	-
GRANGE HALL SOLAR	61.1	11,423	26.0	-	56.9	-	SOLAR	-	-	-	-	-	-
PEACE CREEK SOLAR	55.4	12,122	30.4	-	67.0	-	SOLAR	-	-	-	-	-	-
BONNIE MINE SOLAR	37.5	8,345	30.9	-	64.9	-	SOLAR	-	-	-	-	-	-
LAKE HANCOCK	49.5	1,803	25.3	-	59.6	-	SOLAR	-	-	-	-	-	-
<b>SOLAR TOTAL</b>	<b>445.2</b>	<b>80,688</b>	<b>27.6</b>	<b>-</b>	<b>47.9</b>	<b>-</b>	<b>SOLAR</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>BIG BEND #1 TOTAL</b>	<b>305</b>	<b>108,049</b>	<b>49.2</b>	<b>99.9</b>	<b>49.2</b>	<b>13,935</b>	<b>GAS</b>	<b>1,373,398</b>	<b>1,020,000</b>	<b>1,400,866.3</b>	<b>4,806,994</b>	<b>4.45</b>	<b>3.50</b>
<b>BIG BEND #2 TOTAL</b>	<b>340</b>	<b>63,277</b>	<b>25.8</b>	<b>52.2</b>	<b>40.4</b>	<b>13,824</b>	<b>GAS</b>	<b>796,839</b>	<b>1,020,000</b>	<b>812,775.5</b>	<b>2,788,996</b>	<b>4.41</b>	<b>3.50</b>
B.B.#3 (COAL)	395	0	0.0	0.0	0.0	-	COAL	0	0	0.0	0	0.00	0.00
B.B.#3 (GAS)	345	94,094	37.9	69.1	60.1	-	GAS	1,216,528	1,020,000	1,240,859.0	4,257,939	4.53	3.50
<b>BIG BEND #3 TOTAL</b>	<b>345</b>	<b>94,094</b>	<b>37.9</b>	<b>69.1</b>	<b>60.1</b>	<b>11,285</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,240,859.0</b>	<b>4,257,939</b>	<b>4.53</b>	<b>-</b>
B.B.#4 (COAL)	437	77,428	24.6	34.7	96.8	-	COAL	36,085	23,474,847	847,089.9	2,950,959	3.81	81.78
B.B.#4 (GAS)	185	8,292	6.2	34.7	27.8	-	GAS	83,278	1,020,000	84,944.1	291,481	3.52	3.50
<b>BIG BEND #4 TOTAL</b>	<b>437</b>	<b>85,720</b>	<b>27.2</b>	<b>34.7</b>	<b>57.1</b>	<b>10,955</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>932,034.0</b>	<b>3,242,440</b>	<b>3.78</b>	<b>-</b>
B.B. IGNITION	-	-	-	-	-	-	GAS	31,053	0	31,674.0	108,688	-	3.50
<b>BIG BEND CT #4 TOTAL</b>	<b>56</b>	<b>0</b>	<b>0.0</b>	<b>0.9</b>	<b>0.0</b>	<b>0</b>	<b>GAS</b>	<b>0</b>	<b>1,020,000</b>	<b>0.0</b>	<b>0</b>	<b>0.00</b>	<b>0.00</b>
<b>BIG BEND STATION TOTAL</b>	<b>1,483</b>	<b>351,140</b>	<b>32.9</b>	<b>58.8</b>	<b>32.9</b>	<b>12,478</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,386,534.8</b>	<b>15,205,057</b>	<b>4.33</b>	<b>-</b>
POLK #1 GASIFIER <sup>(3)</sup>	220	(1,924)	0.0	0.0	0.0	0	COAL	0	0	0.0	0	0.00	0.00
POLK #1 CT (GAS)	150	74,100	68.2	100.0	71.0	11,930	GAS	866,646	1,020,000	883,979.0	3,033,325	2.87	3.50
POLK #1 ST	85	31,448	51.1	100.0	53.3	0	-	-	-	-	-	-	-
<b>POLK #1 TOTAL</b>	<b>235</b>	<b>103,624</b>	<b>62.0</b>	<b>100.0</b>	<b>64.5</b>	<b>8,531</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>883,979.0</b>	<b>3,033,325</b>	<b>2.93</b>	<b>-</b>
POLK #2 ST DUCT FIRING	120	791	0.9	-	69.8	8,403	GAS	6,517	1,020,000	6,647.0	22,809	2.88	3.50
POLK #2 ST W/O DUCT FIRING	341	68,283	27.8	-	-	-	-	-	-	-	-	-	-
<b>POLK #2 ST TOTAL</b>	<b>461</b>	<b>69,074</b>	<b>20.5</b>	<b>55.0</b>	<b>69.8</b>	<b>-</b>	<b>GAS</b>	<b>-</b>	<b>-</b>	<b>6,647.0</b>	<b>22,809</b>	<b>0.03</b>	<b>-</b>
POLK #2 CT (GAS)	150	44,830	41.4	73.0	88.9	11,255	GAS	494,666	1,020,000	504,559.0	1,731,366	3.86	3.50
POLK #2 CT (OIL)	159	0	0.0	73.0	0.0	0	LG.T.OIL	0	0	0.0	0	0.00	0.00
<b>POLK #2 TOTAL</b>	<b>150</b>	<b>44,830</b>	<b>41.4</b>	<b>73.0</b>	<b>88.9</b>	<b>11,255</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>504,559.0</b>	<b>1,731,366</b>	<b>3.86</b>	<b>-</b>
POLK #3 CT (GAS)	150	23,098	21.3	68.7	85.4	11,436	GAS	258,970	1,020,000	264,149.0	906,412	3.92	3.50
POLK #3 CT (OIL)	159	0	0.0	0.0	0.0	0	LG.T.OIL	0	0	0.0	0	0.00	0.00
<b>POLK #3 TOTAL</b>	<b>150</b>	<b>23,098</b>	<b>21.3</b>	<b>68.7</b>	<b>85.4</b>	<b>11,436</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>264,149.0</b>	<b>906,412</b>	<b>3.92</b>	<b>-</b>
<b>POLK #4 TOTAL</b>	<b>150</b>	<b>39,281</b>	<b>36.2</b>	<b>75.2</b>	<b>86.1</b>	<b>11,142</b>	<b>GAS</b>	<b>429,097</b>	<b>1,020,000</b>	<b>437,679.0</b>	<b>1,501,871</b>	<b>3.82</b>	<b>3.50</b>
<b>POLK #5 TOTAL</b>	<b>150</b>	<b>37,617</b>	<b>34.8</b>	<b>68.3</b>	<b>90.7</b>	<b>11,008</b>	<b>GAS</b>	<b>405,973</b>	<b>1,020,000</b>	<b>414,092.0</b>	<b>1,420,934</b>	<b>3.78</b>	<b>3.50</b>
<b>POLK #2 CC TOTAL</b>	<b>1,061</b>	<b>213,900</b>	<b>27.8</b>	<b>64.2</b>	<b>50.6</b>	<b>7,607</b>	<b>GAS</b>	<b>-</b>	<b>-</b>	<b>1,627,126.0</b>	<b>5,583,392</b>	<b>2.61</b>	<b>-</b>
<b>POLK STATION TOTAL</b>	<b>1,296</b>	<b>317,524</b>	<b>34.0</b>	<b>70.7</b>	<b>35.4</b>	<b>7,908</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,511,105.0</b>	<b>8,616,717</b>	<b>2.71</b>	<b>-</b>

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SYSTEM NET GENERATION AND FUEL COST  
TAMPA ELECTRIC COMPANY  
MONTH OF: April 2019

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)
PLANT/UNIT	NET CAP-ABILITY (MW)	NET GENERATION (MWH)	NET CAPACITY FACTOR (%)	NET AVAIL. FACTOR (%)	NET OUTPUT FACTOR (%)	AVG. NET HEAT RATE BTU/KWH	FUEL TYPE	FUEL BURNED (UNITS)	FUEL HEAT VALUE (BTU/UNIT)	FUEL BURNED (MM BTU) <sup>(2)</sup>	AS BURNED FUEL COST (\$) <sup>(1)</sup>	FUEL COST PER KWH (cents/KWH)	COST OF FUEL (\$/UNIT)
BAYSIDE ST 1	233	100,163	59.7	81.4	73.2	-		-	-	-	-	-	-
BAYSIDE CT1A	156	62,282	55.5	89.0	83.1	11,358	GAS	693,516	1,020,000	707,385.9	2,428,352	3.90	3.50
BAYSIDE CT1B	156	59,113	52.6	91.9	83.3	11,353	GAS	657,979	1,020,000	671,138.4	2,303,918	3.90	3.50
BAYSIDE CT1C	156	63,935	56.9	92.7	81.2	11,163	GAS	699,737	1,020,000	713,731.4	2,450,134	3.83	3.50
<b>BAYSIDE UNIT 1 TOTAL</b>	<b>701</b>	<b>285,493</b>	<b>56.6</b>	<b>87.9</b>	<b>69.4</b>	<b>7,329</b>	<b>GAS</b>	<b>2,051,232</b>	<b>1,020,000</b>	<b>2,092,255.7</b>	<b>7,182,404</b>	<b>2.52</b>	<b>3.50</b>
BAYSIDE ST 2	305	169,796	77.3	93.8	77.7	-		-	-	-	-	-	-
BAYSIDE CT2A	156	81,878	72.9	100.0	85.4	10,985	GAS	881,786	1,020,000	899,421.5	3,087,582	3.77	3.50
BAYSIDE CT2B	156	73,714	65.6	100.0	84.6	11,214	GAS	810,403	1,020,000	826,611.5	2,837,634	3.85	3.50
BAYSIDE CT2C	156	94,914	84.5	100.0	84.5	11,274	GAS	1,049,099	1,020,000	1,070,081.2	3,673,431	3.87	3.50
BAYSIDE CT2D	156	71,903	64.0	77.1	84.8	11,201	GAS	789,601	1,020,000	805,393.2	2,764,796	3.85	3.50
<b>BAYSIDE UNIT 2 TOTAL</b>	<b>929</b>	<b>492,205</b>	<b>73.6</b>	<b>94.1</b>	<b>73.6</b>	<b>7,317</b>	<b>GAS</b>	<b>3,530,889</b>	<b>1,020,000</b>	<b>3,601,507.5</b>	<b>12,363,443</b>	<b>2.51</b>	<b>3.50</b>
<b>BAYSIDE UNIT 3 TOTAL</b>	<b>56</b>	<b>503</b>	<b>1.2</b>	<b>94.1</b>	<b>92.1</b>	<b>11,069</b>	<b>GAS</b>	<b>5,459</b>	<b>1,020,000</b>	<b>5,567.9</b>	<b>19,114</b>	<b>3.80</b>	<b>3.50</b>
<b>BAYSIDE UNIT 4 TOTAL</b>	<b>56</b>	<b>749</b>	<b>1.9</b>	<b>85.2</b>	<b>105.6</b>	<b>10,553</b>	<b>GAS</b>	<b>7,749</b>	<b>1,020,000</b>	<b>7,904.1</b>	<b>27,133</b>	<b>3.62</b>	<b>3.50</b>
<b>BAYSIDE UNIT 5 TOTAL</b>	<b>56</b>	<b>968</b>	<b>2.4</b>	<b>88.7</b>	<b>95.4</b>	<b>11,350</b>	<b>GAS</b>	<b>10,771</b>	<b>1,020,000</b>	<b>10,986.8</b>	<b>37,716</b>	<b>3.90</b>	<b>3.50</b>
<b>BAYSIDE UNIT 6 TOTAL</b>	<b>56</b>	<b>692</b>	<b>1.7</b>	<b>88.3</b>	<b>100.6</b>	<b>10,728</b>	<b>GAS</b>	<b>7,278</b>	<b>1,020,000</b>	<b>7,423.8</b>	<b>25,485</b>	<b>3.68</b>	<b>3.50</b>
<b>BAYSIDE STATION TOTAL</b>	<b>1,854</b>	<b>780,610</b>	<b>58.5</b>	<b>91.2</b>	<b>58.5</b>	<b>7,335</b>	<b>GAS</b>	<b>5,613,378</b>	<b>1,020,000</b>	<b>5,725,645.6</b>	<b>19,655,295</b>	<b>2.52</b>	<b>3.50</b>
<b>SYSTEM</b>	<b>5,078</b>	<b>1,529,962</b>	<b>42.2</b>	<b>75.1</b>	<b>44.1</b>	<b>8,247</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>12,623,285.5</b>	<b>43,477,069</b>	<b>2.84</b>	<b>-</b>

LEGEND:  
B.B. = BIG BEND  
CT = COMBUSTION TURBINE

CC = COMBINED CYCLE  
ST = STEAM TURBINE

Footnotes:  
<sup>(1)</sup> As burned fuel cost system total includes ignition.  
<sup>(2)</sup> Fuel burned (MM BTU) system total excludes ignition.  
<sup>(3)</sup> Station Service

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SYSTEM NET GENERATION AND FUEL COST  
TAMPA ELECTRIC COMPANY  
MONTH OF: May 2019

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)
PLANT/UNIT	NET CAP-ABILITY (MW)	NET GENERATION (MWH)	NET CAPACITY FACTOR (%)	NET AVAIL. FACTOR (%)	NET OUTPUT FACTOR (%)	AVG. NET HEAT RATE BTU/KWH	FUEL TYPE	FUEL BURNED (UNITS)	FUEL HEAT VALUE (BTU/UNIT)	FUEL BURNED (MM BTU) <sup>(2)</sup>	AS BURNED FUEL COST (\$) <sup>(1)</sup>	FUEL COST PER KWH (cents/KWH)	COST OF FUEL (\$/UNIT)
TIA SOLAR	1.6	323	27.1	-	43.2	-	SOLAR	-	-	-	-	-	-
BIG BEND SOLAR	19.4	4,508	31.2	-	63.4	-	SOLAR	-	-	-	-	-	-
LEGOLAND SOLAR	1.5	247	22.1	-	44.5	-	SOLAR	-	-	-	-	-	-
PAYNE CREEK SOLAR	70.3	12,009	23.0	-	47.7	-	SOLAR	-	-	-	-	-	-
BALM SOLAR	74.4	12,908	23.3	-	48.7	-	SOLAR	-	-	-	-	-	-
LITHIA SOLAR	74.5	4,335	7.8	-	35.3	-	SOLAR	-	-	-	-	-	-
GRANGE HALL SOLAR	61.1	12,026	26.5	-	54.3	-	SOLAR	-	-	-	-	-	-
PEACE CREEK SOLAR	55.4	11,736	28.5	-	60.6	-	SOLAR	-	-	-	-	-	-
BONNIE MINE SOLAR	37.5	9,119	32.7	-	65.0	-	SOLAR	-	-	-	-	-	-
LAKE HANCOCK	49.5	11,242	30.5	-	57.7	-	SOLAR	-	-	-	-	-	-
<b>SOLAR TOTAL</b>	<b>445.2</b>	<b>78,453</b>	<b>23.7</b>	<b>-</b>	<b>37.8</b>	<b>-</b>	<b>SOLAR</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>BIG BEND #1 TOTAL</b>	<b>305</b>	<b>61,574</b>	<b>27.1</b>	<b>96.5</b>	<b>42.7</b>	<b>13,901</b>	<b>GAS</b>	<b>838,350</b>	<b>1,021,000</b>	<b>855,955.1</b>	<b>2,852,112</b>	<b>4.63</b>	<b>3.40</b>
<b>BIG BEND #2 TOTAL</b>	<b>340</b>	<b>111,926</b>	<b>44.2</b>	<b>99.9</b>	<b>44.2</b>	<b>12,764</b>	<b>GAS</b>	<b>1,399,285</b>	<b>1,021,000</b>	<b>1,428,670.6</b>	<b>4,760,449</b>	<b>4.25</b>	<b>3.40</b>
B.B.#3 (COAL)	395	0	0.0	0.0	0.0	-	COAL	0	0	0.0	0	0.00	0.00
B.B.#3 (GAS)	345	37,128	14.5	41.6	68.2	-	GAS	382,911	1,021,000	390,951.8	1,302,684	3.51	3.40
<b>BIG BEND #3 TOTAL</b>	<b>345</b>	<b>37,128</b>	<b>14.5</b>	<b>41.6</b>	<b>68.2</b>	<b>10,530</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>390,951.8</b>	<b>1,302,684</b>	<b>3.51</b>	<b>-</b>
B.B.#4 (COAL)	437	135,386	41.6	26.1	58.6	-	COAL	65,724	23,101,025	1,518,291.8	4,953,944	3.66	75.37
B.B.#4 (GAS)	185	2,549	1.9	26.1	55.1	-	GAS	28,362	1,021,000	28,957.6	96,491	3.79	3.40
<b>BIG BEND #4 TOTAL</b>	<b>437</b>	<b>137,935</b>	<b>42.4</b>	<b>26.1</b>	<b>57.0</b>	<b>11,217</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,547,249.4</b>	<b>5,050,435</b>	<b>3.66</b>	<b>-</b>
B.B. IGNITION	-	-	-	-	-	-	GAS	30,418	0	31,057.0	103,484	-	3.40
<b>BIG BEND CT #4 TOTAL</b>	<b>61</b>	<b>102</b>	<b>0.2</b>	<b>89.0</b>	<b>37.2</b>	<b>27,295</b>	<b>GAS</b>	<b>2,727</b>	<b>1,021,000</b>	<b>2,784.1</b>	<b>9,277</b>	<b>9.10</b>	<b>3.40</b>
<b>BIG BEND STATION TOTAL</b>	<b>1,488</b>	<b>348,665</b>	<b>31.5</b>	<b>63.5</b>	<b>31.5</b>	<b>12,119</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,225,611.0</b>	<b>14,078,441</b>	<b>4.04</b>	<b>-</b>
POLK #1 GASIFIER <sup>(3)</sup>	220	(2,370)	0.0	0.0	0.0	0	COAL	0	0	0.0	0	0.00	0.00
POLK #1 CT (GAS)	150	54,244	47.1	69.1	69.7	12,118	GAS	643,795	1,021,000	657,315.0	2,190,228	2.82	3.40
POLK #1 ST	85	23,415	35.9	68.4	52.5	0	-	-	-	-	-	-	-
<b>POLK #1 TOTAL</b>	<b>235</b>	<b>75,289</b>	<b>43.1</b>	<b>68.9</b>	<b>62.9</b>	<b>8,731</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>657,315.0</b>	<b>2,190,228</b>	<b>2.91</b>	<b>-</b>
POLK #2 ST DUCT FIRING	120	15,731	17.6	-	86.5	8,400	GAS	129,427	1,021,000	132,145.0	440,318	2.80	3.40
POLK #2 ST W/O DUCT FIRING	341	181,164	71.4	-	-	-	-	-	-	-	-	-	-
<b>POLK #2 ST TOTAL</b>	<b>461</b>	<b>196,895</b>	<b>57.4</b>	<b>99.1</b>	<b>86.5</b>	<b>-</b>	<b>GAS</b>	<b>-</b>	<b>-</b>	<b>132,145.0</b>	<b>440,318</b>	<b>0.22</b>	<b>-</b>
POLK #2 CT (GAS)	150	74,786	67.1	100.0	89.9	11,301	GAS	827,738	1,021,000	845,121.0	2,816,013	3.77	3.40
POLK #2 CT (OIL)	159	67	0.1	100.0	34.2	11,558	LG.T.OIL	133	5,830	778.8	17,030	25.42	128.05
<b>POLK #2 TOTAL</b>	<b>150</b>	<b>74,853</b>	<b>67.1</b>	<b>100.0</b>	<b>89.9</b>	<b>11,290</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>845,899.8</b>	<b>2,833,043</b>	<b>3.78</b>	<b>-</b>
POLK #3 CT (GAS)	150	79,495	71.2	98.9	92.2	11,227	GAS	874,129	1,021,000	892,486.0	2,973,837	3.74	3.40
POLK #3 CT (OIL)	159	0	0.00	0.0	0.0	0	LG.T.OIL	0	0	0.0	0	0.00	0.00
<b>POLK #3 TOTAL</b>	<b>150</b>	<b>79,495</b>	<b>71.2</b>	<b>98.9</b>	<b>92.2</b>	<b>11,227</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>892,486.0</b>	<b>2,973,837</b>	<b>3.74</b>	<b>-</b>
<b>POLK #4 TOTAL</b>	<b>150</b>	<b>87,460</b>	<b>78.4</b>	<b>100.0</b>	<b>94.4</b>	<b>10,939</b>	<b>GAS</b>	<b>937,018</b>	<b>1,021,000</b>	<b>956,695.0</b>	<b>3,187,786</b>	<b>3.64</b>	<b>3.40</b>
<b>POLK #5 TOTAL</b>	<b>150</b>	<b>78,560</b>	<b>70.4</b>	<b>100.0</b>	<b>93.4</b>	<b>10,985</b>	<b>GAS</b>	<b>845,257</b>	<b>1,021,000</b>	<b>863,007.0</b>	<b>2,875,610</b>	<b>3.66</b>	<b>3.40</b>
<b>POLK #2 CC TOTAL</b>	<b>1,061</b>	<b>517,264</b>	<b>65.5</b>	<b>99.4</b>	<b>65.5</b>	<b>7,133</b>	<b>GAS</b>	<b>-</b>	<b>-</b>	<b>3,690,232.8</b>	<b>12,310,594</b>	<b>2.38</b>	<b>-</b>
<b>POLK STATION TOTAL</b>	<b>1,296</b>	<b>592,553</b>	<b>61.5</b>	<b>93.9</b>	<b>61.5</b>	<b>7,336</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,347,547.8</b>	<b>14,500,822</b>	<b>2.45</b>	<b>-</b>

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SYSTEM NET GENERATION AND FUEL COST  
TAMPA ELECTRIC COMPANY  
MONTH OF: May 2019

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)
PLANT/UNIT	NET CAP-ABILITY (MW)	NET GENERATION (MWH)	NET CAPACITY FACTOR (%)	NET AVAIL. FACTOR (%)	NET OUTPUT FACTOR (%)	AVG. NET HEAT RATE BTU/KWH	FUEL TYPE	FUEL BURNED (UNITS)	FUEL HEAT VALUE (BTU/UNIT)	FUEL BURNED (MM BTU) <sup>(2)</sup>	AS BURNED FUEL COST (\$) <sup>(1)</sup>	FUEL COST PER KWH (cents/KWH)	COST OF FUEL (\$/UNIT)
BAYSIDE ST 1	233	125,774	72.6	93.9	72.6	-		-	-	-	-	-	-
BAYSIDE CT1A	156	67,968	58.6	82.9	82.1	11,444	GAS	761,814	1,021,000	777,812.2	2,592,535	3.81	3.40
BAYSIDE CT1B	156	76,811	66.2	99.0	82.8	11,397	GAS	857,430	1,021,000	875,436.1	2,917,927	3.80	3.40
BAYSIDE CT1C	156	87,041	75.0	100.0	82.3	11,148	GAS	950,364	1,021,000	970,321.5	3,234,191	3.72	3.40
<b>BAYSIDE UNIT 1 TOTAL</b>	<b>701</b>	<b>357,594</b>	<b>68.6</b>	<b>93.9</b>	<b>68.6</b>	<b>7,337</b>	<b>GAS</b>	<b>2,569,608</b>	<b>1,021,000</b>	<b>2,623,569.8</b>	<b>8,744,653</b>	<b>2.45</b>	<b>3.40</b>
BAYSIDE ST 2	305	192,840	85.0	99.6	85.0	-		-	-	-	-	-	-
BAYSIDE CT2A	156	87,144	75.1	98.9	101.1	11,052	GAS	943,342	1,021,000	963,152.1	3,210,295	3.68	3.40
BAYSIDE CT2B	156	77,535	66.8	99.6	84.3	11,233	GAS	853,008	1,021,000	870,921.4	2,902,878	3.74	3.40
BAYSIDE CT2C	156	97,023	83.6	100.0	83.6	11,351	GAS	1,078,615	1,021,000	1,101,266.5	3,670,644	3.78	3.40
BAYSIDE CT2D	183	96,937	71.2	100.0	71.2	11,295	GAS	1,072,344	1,021,000	1,094,862.9	3,649,302	3.76	3.40
<b>BAYSIDE UNIT 2 TOTAL</b>	<b>956</b>	<b>551,479</b>	<b>77.5</b>	<b>99.6</b>	<b>77.5</b>	<b>7,308</b>	<b>GAS</b>	<b>3,947,309</b>	<b>1,021,000</b>	<b>4,030,202.8</b>	<b>13,433,119</b>	<b>2.44</b>	<b>3.40</b>
<b>BAYSIDE UNIT 3 TOTAL</b>	<b>56</b>	<b>257</b>	<b>0.6</b>	<b>97.8</b>	<b>84.5</b>	<b>11,803</b>	<b>GAS</b>	<b>2,971</b>	<b>1,021,000</b>	<b>3,033.3</b>	<b>10,110</b>	<b>3.93</b>	<b>3.40</b>
<b>BAYSIDE UNIT 4 TOTAL</b>	<b>56</b>	<b>210</b>	<b>0.5</b>	<b>97.6</b>	<b>89.9</b>	<b>11,221</b>	<b>GAS</b>	<b>2,308</b>	<b>1,021,000</b>	<b>2,356.5</b>	<b>7,854</b>	<b>3.74</b>	<b>3.40</b>
<b>BAYSIDE UNIT 5 TOTAL</b>	<b>56</b>	<b>324</b>	<b>0.8</b>	<b>97.6</b>	<b>75.3</b>	<b>11,933</b>	<b>GAS</b>	<b>3,787</b>	<b>1,021,000</b>	<b>3,866.3</b>	<b>12,887</b>	<b>3.98</b>	<b>3.40</b>
<b>BAYSIDE UNIT 6 TOTAL</b>	<b>56</b>	<b>337</b>	<b>0.8</b>	<b>97.2</b>	<b>89.7</b>	<b>11,039</b>	<b>GAS</b>	<b>3,644</b>	<b>1,021,000</b>	<b>3,720.2</b>	<b>12,400</b>	<b>3.68</b>	<b>3.40</b>
<b>BAYSIDE STATION TOTAL</b>	<b>1,881</b>	<b>910,201</b>	<b>65.0</b>	<b>97.3</b>	<b>65.0</b>	<b>7,324</b>	<b>GAS</b>	<b>6,529,627</b>	<b>1,021,000</b>	<b>6,666,748.9</b>	<b>22,221,023</b>	<b>2.44</b>	<b>3.40</b>
<b>SYSTEM</b>	<b>5,110</b>	<b>1,929,872</b>	<b>50.8</b>	<b>85.6</b>	<b>52.5</b>	<b>7,896</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>15,239,907.6</b>	<b>50,800,286</b>	<b>2.63</b>	<b>-</b>

LEGEND:  
B.B. = BIG BEND  
CT = COMBUSTION TURBINE

CC = COMBINED CYCLE  
ST = STEAM TURBINE

Footnotes:  
<sup>(1)</sup> As burned fuel cost system total includes ignition.  
<sup>(2)</sup> Fuel burned (MM BTU) system total excludes ignition.  
<sup>(3)</sup> Station Service

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SYSTEM NET GENERATION AND FUEL COST  
TAMPA ELECTRIC COMPANY  
MONTH OF: June 2019

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)
PLANT/UNIT	NET CAP-ABILITY (MW)	NET GENERATION (MWH)	NET CAPACITY FACTOR (%)	NET AVAIL. FACTOR (%)	NET OUTPUT FACTOR (%)	AVG. NET HEAT RATE BTU/KWH	FUEL TYPE	FUEL BURNED (UNITS)	FUEL HEAT VALUE (BTU/UNIT)	FUEL BURNED (MM BTU) <sup>(2)</sup>	AS BURNED FUEL COST (\$) <sup>(1)</sup>	FUEL COST PER KWH (cents/KWH)	COST OF FUEL (\$/UNIT)
TIA SOLAR	1.6	275	23.9	-	42.4	-	SOLAR	-	-	-	-	-	-
BIG BEND SOLAR	19.4	4,241	30.4	-	53.6	-	SOLAR	-	-	-	-	-	-
LEGOLAND SOLAR	1.5	207	19.2	-	36.9	-	SOLAR	-	-	-	-	-	-
PAYNE CREEK SOLAR	70.3	9,118	18.0	-	36.8	-	SOLAR	-	-	-	-	-	-
BALM SOLAR	74.4	11,322	21.1	-	42.4	-	SOLAR	-	-	-	-	-	-
LITHIA SOLAR	74.5	8,988	16.8	-	34.2	-	SOLAR	-	-	-	-	-	-
GRANGE HALL SOLAR	61.1	9,403	21.4	-	42.4	-	SOLAR	-	-	-	-	-	-
PEACE CREEK SOLAR	55.4	7,370	18.5	-	37.3	-	SOLAR	-	-	-	-	-	-
BONNIE MINE SOLAR	37.5	7,262	26.9	-	51.5	-	SOLAR	-	-	-	-	-	-
LAKE HANCOCK SOLAR	49.6	7,566	21.2	-	38.2	-	SOLAR	-	-	-	-	-	-
<b>SOLAR TOTAL</b>	<b>445.3</b>	<b>65,742</b>	<b>20.5</b>	<b>-</b>	<b>36.1</b>	<b>-</b>	<b>SOLAR</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>BIG BEND #1 TOTAL</b>	<b>(4) 305</b>	<b>86,621</b>	<b>39.4</b>	<b>98.0</b>	<b>47.2</b>	<b>13,930</b>	<b>GAS</b>	<b>1,281,084</b>	<b>1,024,000</b>	<b>1,311,419.6</b>	<b>4,505,099</b>	<b>5.20</b>	<b>3.52</b>
<b>BIG BEND #2 TOTAL</b>	<b>(4) 340</b>	<b>25,535</b>	<b>10.4</b>	<b>82.0</b>	<b>46.8</b>	<b>12,478</b>	<b>GAS</b>	<b>371,925</b>	<b>1,024,000</b>	<b>380,607.7</b>	<b>1,308,082</b>	<b>5.12</b>	<b>3.52</b>
B.B.#3 (COAL)	395	0	0.0	0.0	0.0	-	COAL	0	0	0.0	0	0.00	0.00
B.B.#3 (GAS)	(4) 345	0	0.0	0.0	0.0	-	GAS	(175,473)	0	(178,982.3)	(612,568)	0.00	3.49
<b>BIG BEND #3 TOTAL</b>	<b>345</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>(178,982.3)</b>	<b>(612,568)</b>	<b>0.00</b>	<b>-</b>
B.B.#4 (COAL)	437	151,415	48.1	65.7	67.8	-	COAL	68,443	23,012,211	1,575,024.7	5,199,023	3.43	75.96
B.B.#4 (GAS)	(4) 185	1,394	1.0	65.7	376.8	-	GAS	21,248	1,024,000	21,730.1	74,739	5.36	3.52
<b>BIG BEND #4 TOTAL</b>	<b>437</b>	<b>152,809</b>	<b>48.6</b>	<b>65.7</b>	<b>68.1</b>	<b>10,403</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,596,754.8</b>	<b>5,273,762</b>	<b>3.45</b>	<b>-</b>
B.B. IGNITION	(4) -	-	-	-	-	-	GAS	22,034	0	22,563.0	77,523	-	3.52
<b>BIG BEND CT #4 TOTAL</b>	<b>56</b>	<b>573</b>	<b>1.4</b>	<b>100.0</b>	<b>65.6</b>	<b>13,008</b>	<b>GAS</b>	<b>7,279</b>	<b>1,024,000</b>	<b>7,453.6</b>	<b>25,595</b>	<b>4.47</b>	<b>3.52</b>
<b>BIG BEND STATION TOTAL</b>	<b>1,483</b>	<b>265,538</b>	<b>26.5</b>	<b>61.9</b>	<b>31.7</b>	<b>11,759</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,117,253.4</b>	<b>10,577,493</b>	<b>3.98</b>	<b>-</b>
POLK #1 GASIFIER	(3) 220	(755)	0.0	0.0	0.0	0	COAL	0	0	0.0	0	0.00	0.00
POLK #1 CT (GAS)	(4) 150	71,673	65.9	98.9	71.1	12,178	GAS	852,369	1,024,000	872,826.0	2,998,387	2.95	3.52
POLK #1 ST	85	30,117	48.8	97.8	108.2	0	-	-	-	-	-	-	-
<b>POLK #1 TOTAL</b>	<b>235</b>	<b>101,035</b>	<b>59.7</b>	<b>98.5</b>	<b>64.4</b>	<b>8,639</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>872,826.0</b>	<b>2,998,387</b>	<b>2.97</b>	<b>-</b>
POLK #2 ST DUCT FIRING	(4) 120	13,643	15.8	-	67.5	8,400	GAS	111,910	1,024,000	114,596.0	393,503	2.88	3.52
POLK #2 ST W/O DUCT FIRING	341	156,635	63.8	-	-	-	-	-	-	-	-	-	-
<b>POLK #2 ST TOTAL</b>	<b>461</b>	<b>170,278</b>	<b>51.3</b>	<b>79.4</b>	<b>67.5</b>	<b>-</b>	<b>GAS</b>	<b>-</b>	<b>-</b>	<b>114,596.0</b>	<b>393,503</b>	<b>0.23</b>	<b>-</b>
POLK #2 CT (GAS)	(4) 150	17,744	16.4	24.4	87.6	11,463	GAS	198,634	1,024,000	203,401.0	699,186	3.94	3.52
POLK #2 CT (OIL)	(5) 159	0	0.0	24.4	0.0	0	LG.T.OIL	95	5,830	550.3	12,035	0.00	126.68
<b>POLK #2 TOTAL</b>	<b>150</b>	<b>17,744</b>	<b>16.4</b>	<b>24.4</b>	<b>87.6</b>	<b>11,494</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>203,951.3</b>	<b>711,221</b>	<b>4.01</b>	<b>-</b>
POLK #3 CT (GAS)	(4) 150	95,922	88.8	100.0	93.2	11,221	GAS	1,051,079	1,024,000	1,076,305.0	3,696,147	3.85	3.52
POLK #3 CT (OIL)	159	0	0.00	0.0	0.0	0	LG.T.OIL	0	0	0.0	0	0.00	0.00
<b>POLK #3 TOTAL</b>	<b>150</b>	<b>95,922</b>	<b>88.8</b>	<b>100.0</b>	<b>93.2</b>	<b>11,221</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,076,305.0</b>	<b>3,696,147</b>	<b>3.85</b>	<b>-</b>
<b>POLK #4 TOTAL</b>	<b>(4) 150</b>	<b>87,506</b>	<b>81.0</b>	<b>100.0</b>	<b>95.6</b>	<b>10,947</b>	<b>GAS</b>	<b>935,481</b>	<b>1,024,000</b>	<b>957,933.0</b>	<b>3,289,950</b>	<b>3.76</b>	<b>3.52</b>
<b>POLK #5 TOTAL</b>	<b>(4) 150</b>	<b>78,329</b>	<b>72.5</b>	<b>100.0</b>	<b>94.0</b>	<b>10,988</b>	<b>GAS</b>	<b>840,478</b>	<b>1,024,000</b>	<b>860,650.0</b>	<b>2,955,870</b>	<b>3.77</b>	<b>3.52</b>
<b>POLK #2 CC TOTAL</b>	<b>1,061</b>	<b>449,779</b>	<b>58.9</b>	<b>80.4</b>	<b>58.9</b>	<b>7,144</b>	<b>GAS</b>	<b>-</b>	<b>-</b>	<b>3,213,435.3</b>	<b>11,046,691</b>	<b>2.46</b>	<b>-</b>
<b>POLK STATION TOTAL</b>	<b>1,296</b>	<b>550,814</b>	<b>59.0</b>	<b>83.6</b>	<b>59.0</b>	<b>7,419</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,086,261.3</b>	<b>14,045,078</b>	<b>2.55</b>	<b>-</b>

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SYSTEM NET GENERATION AND FUEL COST  
TAMPA ELECTRIC COMPANY  
MONTH OF: June 2019

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)
PLANT/UNIT	NET CAP-ABILITY (MW)	NET GENERATION (MWH)	NET CAPACITY FACTOR (%)	NET AVAIL. FACTOR (%)	NET OUTPUT FACTOR (%)	AVG. NET HEAT RATE BTU/KWH	FUEL TYPE	FUEL BURNED (UNITS)	FUEL HEAT VALUE (BTU/UNIT)	FUEL BURNED (MM BTU) <sup>(2)</sup>	AS BURNED FUEL COST (\$) <sup>(1)</sup>	FUEL COST PER KWH (cents/KWH)	COST OF FUEL (\$/UNIT)
BAYSIDE ST 1	233	131,840	78.6	94.6	78.6	-		-	-	-	-	-	-
BAYSIDE CT1A	156	83,961	74.8	100.0	80.7	11,391	GAS	933,963	1,024,000	956,377.7	3,286,069	3.91	3.52
BAYSIDE CT1B	156	87,794	78.2	100.0	81.0	11,389	GAS	976,414	1,024,000	999,848.4	3,435,430	3.91	3.52
BAYSIDE CT1C	156	67,693	60.3	87.3	80.9	11,127	GAS	735,554	1,024,000	753,207.3	2,587,984	3.82	3.52
<b>BAYSIDE UNIT 1 TOTAL</b>	<b>(4) 701</b>	<b>371,288</b>	<b>73.6</b>	<b>95.4</b>	<b>73.6</b>	<b>7,297</b>	<b>GAS</b>	<b>2,645,931</b>	<b>1,024,000</b>	<b>2,709,433.4</b>	<b>9,309,483</b>	<b>2.51</b>	<b>3.52</b>
BAYSIDE ST 2	305	189,572	86.3	99.0	86.3	-		-	-	-	-	-	-
BAYSIDE CT2A	156	84,385	75.1	100.0	84.6	10,995	GAS	906,072	1,024,000	927,817.9	3,188,149	3.78	3.52
BAYSIDE CT2B	156	83,464	74.3	100.0	83.4	11,167	GAS	910,179	1,024,000	932,022.9	3,202,600	3.84	3.52
BAYSIDE CT2C	156	88,347	78.7	97.7	83.0	11,286	GAS	973,700	1,024,000	997,069.0	3,426,108	3.88	3.52
BAYSIDE CT2D	156	92,666	82.5	100.0	82.7	11,239	GAS	1,017,085	1,024,000	1,041,494.9	3,578,765	3.86	3.52
<b>BAYSIDE UNIT 2 TOTAL</b>	<b>(4) 929</b>	<b>538,434</b>	<b>80.5</b>	<b>99.3</b>	<b>80.5</b>	<b>7,240</b>	<b>GAS</b>	<b>3,807,036</b>	<b>1,024,000</b>	<b>3,898,404.6</b>	<b>13,395,622</b>	<b>2.49</b>	<b>3.52</b>
<b>BAYSIDE UNIT 3 TOTAL</b>	<b>(4) 56</b>	<b>70</b>	<b>0.2</b>	<b>100.0</b>	<b>88.3</b>	<b>11,286</b>	<b>GAS</b>	<b>768</b>	<b>1,024,000</b>	<b>786.6</b>	<b>2,710</b>	<b>3.87</b>	<b>3.53</b>
<b>BAYSIDE UNIT 4 TOTAL</b>	<b>(4) 56</b>	<b>0</b>	<b>0.0</b>	<b>100.0</b>	<b>0.0</b>	<b>0</b>	<b>GAS</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>12</b>	<b>0.00</b>	<b>0.00</b>
<b>BAYSIDE UNIT 5 TOTAL</b>	<b>(4) 56</b>	<b>1,514</b>	<b>3.8</b>	<b>98.6</b>	<b>86.7</b>	<b>11,578</b>	<b>GAS</b>	<b>17,119</b>	<b>1,024,000</b>	<b>17,530.1</b>	<b>60,229</b>	<b>3.98</b>	<b>3.52</b>
<b>BAYSIDE UNIT 6 TOTAL</b>	<b>(4) 56</b>	<b>416</b>	<b>1.0</b>	<b>98.6</b>	<b>85.7</b>	<b>11,152</b>	<b>GAS</b>	<b>4,533</b>	<b>1,024,000</b>	<b>4,641.4</b>	<b>15,953</b>	<b>3.83</b>	<b>3.52</b>
<b>BAYSIDE STATION TOTAL</b>	<b>1,854</b>	<b>911,722</b>	<b>68.3</b>	<b>97.8</b>	<b>68.3</b>	<b>7,273</b>	<b>GAS</b>	<b>6,475,387</b>	<b>1,024,000</b>	<b>6,630,796.2</b>	<b>22,784,009</b>	<b>2.50</b>	<b>3.52</b>
<b>SYSTEM</b>	<b>5,078</b>	<b>1,793,816</b>	<b>49.1</b>	<b>82.3</b>	<b>53.7</b>	<b>7,715</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>13,834,310.9</b>	<b>47,406,580</b>	<b>2.64</b>	<b>-</b>

LEGEND:  
B.B. = BIG BEND  
CT = COMBUSTION TURBINE

Footnotes:  
<sup>(1)</sup> As burned fuel cost system total includes ignition.  
<sup>(2)</sup> Fuel burned (MM BTU) system total excludes ignition.  
<sup>(3)</sup> Station Service

<sup>(4)</sup> Includes April 2019 adjustments to Big Bend, Polk and Bayside Stations, details on Schedule A5 page 2.  
<sup>(5)</sup> Net generation MWh rounded to zero due to unit running only 1 service hour.

TAMPA ELECTRIC COMPANY  
SYSTEM NET GENERATION AND FUEL COST  
ESTIMATED FOR THE PERIOD: JULY 2019

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)
PLANT/UNIT	NET CAPABILITY (MW)	NET GENERATION (MWH)	NET CAPACITY FACTOR (%)	EQUIV. AVAIL. FACTOR (%)	NET OUTPUT FACTOR (%)	AVG. NET HEAT RATE (BTU/KWH)	FUEL TYPE	FUEL BURNED (UNITS)	FUEL HEAT VALUE (BTU/UNIT)	FUEL BURNED (MM BTU) <sup>(2)</sup>	AS BURNED FUEL COST (\$ <sup>(1)</sup> )	FUEL COST PER KWH (cents/KWH)	COST OF FUEL (\$/UNIT)
1. TIA SOLAR	1.4	250	24.0	-	24.0	-	SOLAR	-	-	-	-	-	-
2. BIG BEND SOLAR	19.2	4,390	30.7	-	30.7	-	SOLAR	-	-	-	-	-	-
3. LEGOLAND SOLAR	1.4	270	25.9	-	25.9	-	SOLAR	-	-	-	-	-	-
4. PAYNE CREEK SOLAR	68.9	10,720	20.9	-	20.9	-	SOLAR	-	-	-	-	-	-
5. BALM SOLAR	72.9	10,950	20.2	-	20.2	-	SOLAR	-	-	-	-	-	-
6. LITHIA SOLAR	72.9	12,090	22.3	-	22.3	-	SOLAR	-	-	-	-	-	-
7. GRANGE HALL SOLAR	59.7	9,150	20.6	-	20.6	-	SOLAR	-	-	-	-	-	-
8. PEACE CREEK SOLAR	54.4	7,470	18.5	-	18.5	-	SOLAR	-	-	-	-	-	-
9. BONNIE MINE SOLAR	36.5	8,540	31.4	-	31.4	-	SOLAR	-	-	-	-	-	-
10. LAKE HANCOCK SOLAR	48.9	6,930	19.0	-	19.0	-	SOLAR	-	-	-	-	-	-
11. SOLAR TOTAL <sup>(3)</sup>	436.2	70,760	21.8	-	21.8	-	SOLAR	-	-	-	-	-	-
12. BIG BEND #1 TOTAL	305	0	0.0	91.9	0.0	0	GAS	0	0	0.0	0	0.00	0.00
13. BIG BEND #2 TOTAL	340	12,990	5.1	91.9	37.5	12,202	GAS	154,180	1,028,019	158,500.0	601,429	4.63	3.90
14. B.B.#3 (GAS)	345	13,470	5.2	-	-	-	GAS	149,450	1,028,036	153,640.0	582,978	4.33	3.90
15. B.B.#3 (COAL)	395	0	0.0	-	-	-	COAL	0	0	0.0	0	0.00	0.00
16. BIG BEND #3 TOTAL	395	13,470	4.6	89.5	47.4	11,406	-	-	-	153,640.0	582,978	4.33	-
17. B.B.#4 (GAS)	185	5,700	4.1	-	-	-	GAS	70,950	1,028,048	72,940.0	276,763	4.86	3.90
18. B.B.#4 (COAL)	437	108,360	33.3	-	-	-	COAL	61,590	22,500,731	1,385,820.0	4,658,228	4.30	75.63
19. BIG BEND #4 TOTAL	437	114,060	35.1	75.6	39.2	12,789	-	-	-	1,458,760.0	4,934,991	4.33	-
20. B.B. IGNITION	-	-	-	-	-	-	GAS	17,530	-	18,020.0	68,381	-	3.90
21. B.B.C.T.#4 TOTAL	56	390	0.9	98.2	99.5	11,718	GAS	4,440	1,029,279	4,570.0	17,320	4.44	3.90
22. BIG BEND STATION TOTAL	1,533	140,910	12.4	86.9	39.7	12,600	-	-	-	1,775,470.0	6,205,099	4.40	-
23. POLK #1 GASIFIER	220	0	0.0	-	0.0	0	COAL	0	0	0.0	0	0.00	0.00
24. POLK #1 CT (GAS)	210	67,380	43.1	-	87.2	8,352	GAS	547,420	1,027,986	562,740.0	2,135,388	3.17	3.90
25. POLK #1 TOTAL	220	67,380	41.2	92.5	87.2	8,352	-	-	-	562,740.0	2,135,388	3.17	-
26. POLK #2 ST DUCT FIRING	120	18,300	20.5	-	79.0	8,277	GAS	147,340	1,028,030	151,470.0	574,747	3.14	3.90
27. POLK #2 ST W/O DUCT FIRING	341	566,311	-	-	-	-	GAS	3,904,442	1,028,010	4,013,805.7	15,230,530	2.69	3.90
28. POLK #2 ST TOTAL	461	584,611	170.4	-	136.8	7,125	GAS	-	-	4,165,275.7	15,805,277	2.70	-
29. POLK #2 CT (GAS)	150	1,500	1.3	-	100.0	11,453	GAS	16,720	1,027,512	17,180.0	65,221	4.35	3.90
30. POLK #2 CT (OIL)	159	664	0.6	-	94.3	11,005	LGT OIL	1,246	5,864,446	7,307.1	158,879	23.93	127.51
31. POLK #2 TOTAL <sup>(4)</sup>	150	2,164	1.9	-	98.2	11,316	-	-	-	24,487.1	224,100	10.36	-
32. POLK #3 CT (GAS)	150	1,500	1.3	-	100.0	11,453	GAS	16,720	1,027,512	17,180.0	65,222	4.35	3.90
33. POLK #3 CT (OIL)	159	664	0.6	-	94.3	11,005	LGT OIL	1,246	5,864,446	7,307.1	158,878	23.93	127.51
34. POLK #3 TOTAL <sup>(4)</sup>	150	2,164	1.9	-	98.2	11,316	-	-	-	24,487.1	224,100	10.36	-
35. POLK #4 CT (GAS) TOTAL <sup>(4)</sup>	150	1,200	1.1	-	100.0	11,475	GAS	13,390	1,028,379	13,770.0	52,232	4.35	3.90
36. POLK #5 CT (GAS) TOTAL <sup>(4)</sup>	150	1,200	1.1	-	100.0	11,475	GAS	13,390	1,028,379	13,770.0	52,232	4.35	3.90
37. POLK #2 CC TOTAL	1,061	591,339	74.9	98.2	135.0	7,173	-	-	-	4,241,789.9	16,357,941	2.77	-
38. POLK STATION TOTAL	1,281	658,719	69.1	97.2	121.9	7,294	-	-	-	4,804,529.9	18,493,329	2.81	-
39. BAYSIDE #1	701	439,670	84.3	97.2	87.0	7,296	GAS	3,120,380	1,027,997	3,207,740.0	12,172,044	2.77	3.90
40. BAYSIDE #2	929	519,270	75.1	97.5	78.0	7,391	GAS	3,733,240	1,027,997	3,837,760.0	14,562,702	2.80	3.90
41. BAYSIDE #3	56	2,050	4.9	98.6	91.5	11,756	GAS	23,440	1,028,157	24,100.0	91,435	4.46	3.90
42. BAYSIDE #4	56	890	2.1	98.6	93.5	11,910	GAS	10,320	1,027,132	10,600.0	40,256	4.52	3.90
43. BAYSIDE #5	56	3,440	8.3	98.6	89.0	11,654	GAS	39,000	1,027,949	40,090.0	152,132	4.42	3.90
44. BAYSIDE #6	56	2,580	6.2	98.6	92.1	11,636	GAS	29,200	1,028,082	30,020.0	113,904	4.41	3.90
45. BAYSIDE STATION TOTAL	1,854	967,900	70.2	97.5	81.9	7,387	GAS	6,955,580	1,027,996	7,150,310.0	27,132,473	2.80	3.90
46. SYSTEM TOTAL	5,104	1,838,289	48.4	85.9	96.9	7,469	-	-	-	13,730,309.9	51,830,901	2.82	-

LEGEND:  
B.B. = BIG BEND  
CT = COMBUSTION TURBINE

CC = COMBINED CYCLE  
ST = STEAM TURBINE

<sup>(1)</sup> As burned fuel cost system total includes ignition  
<sup>(2)</sup> Fuel burned (MM BTU) system total excludes ignition  
<sup>(3)</sup> AC rating

<sup>(4)</sup> In Simple Cycle Mode

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TAMPA ELECTRIC COMPANY  
SYSTEM NET GENERATION AND FUEL COST  
ESTIMATED FOR THE PERIOD: AUGUST 2019

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)
PLANT/UNIT	NET CAPABILITY (MW)	NET GENERATION (MWH)	NET CAPACITY FACTOR (%)	EQUIV. AVAIL. FACTOR (%)	NET OUTPUT FACTOR (%)	AVG. NET HEAT RATE (BTU/KWH)	FUEL TYPE	FUEL BURNED (UNITS)	FUEL HEAT VALUE (BTU/UNIT)	FUEL BURNED (MM BTU) <sup>(2)</sup>	AS BURNED FUEL COST (\$ <sup>(1)</sup> )	FUEL COST PER KWH (cents/KWH)	COST OF FUEL (\$/UNIT)
1. TIA SOLAR	1.4	250	24.0	-	24.0	-	SOLAR	-	-	-	-	-	-
2. BIG BEND SOLAR	19.2	4,250	29.8	-	29.8	-	SOLAR	-	-	-	-	-	-
3. LEGOLAND SOLAR	1.4	250	24.0	-	24.0	-	SOLAR	-	-	-	-	-	-
4. PAYNE CREEK SOLAR	68.9	11,180	21.8	-	21.8	-	SOLAR	-	-	-	-	-	-
5. BALM SOLAR	72.9	11,320	20.9	-	20.9	-	SOLAR	-	-	-	-	-	-
6. LITHIA SOLAR	72.9	11,930	22.0	-	22.0	-	SOLAR	-	-	-	-	-	-
7. GRANGE HALL SOLAR	59.7	9,420	21.2	-	21.2	-	SOLAR	-	-	-	-	-	-
8. PEACE CREEK SOLAR	54.4	8,730	21.6	-	21.6	-	SOLAR	-	-	-	-	-	-
9. BONNIE MINE SOLAR	36.5	8,410	31.0	-	31.0	-	SOLAR	-	-	-	-	-	-
10. LAKE HANCOCK SOLAR	48.9	7,630	21.0	-	21.0	-	SOLAR	-	-	-	-	-	-
11. SOLAR TOTAL <sup>(3)</sup>	436.2	73,370	22.6	-	22.6	-	SOLAR	-	-	-	-	-	-
12. BIG BEND #1 TOTAL	305	15,360	6.8	91.9	38.2	13,790	GAS	206,040	1,028,004	211,810.0	808,418	5.26	3.92
13. BIG BEND #2 TOTAL	340	23,240	9.2	91.9	41.7	11,854	GAS	267,980	1,028,024	275,490.0	1,051,445	4.52	3.92
14. B.B.#3 (GAS)	345	48,850	19.0	-	-	-	GAS	538,040	1,028,009	553,110.0	2,111,051	4.32	3.92
15. B.B.#3 (COAL)	395	0	0.0	-	-	-	COAL	0	0	0.0	0	0.00	0.00
16. BIG BEND #3 TOTAL	395	48,850	16.6	89.5	48.9	11,323	-	-	-	553,110.0	2,111,051	4.32	-
17. B.B.#4 (GAS)	185	5,800	4.2	-	-	-	GAS	71,790	1,027,998	73,800.0	281,675	4.86	3.92
18. B.B.#4 (COAL)	437	110,260	33.9	-	-	-	COAL	62,320	22,498,716	1,402,120.0	4,693,519	4.26	75.31
19. BIG BEND #4 TOTAL	437	116,060	35.7	75.6	39.9	12,717	-	-	-	1,475,920.0	4,975,194	4.29	-
20. B.B. IGNITION	-	-	-	-	-	-	GAS	46,750	-	48,060.0	183,428	-	3.92
21. B.B.C.T.#4 TOTAL	56	550	1.3	98.2	98.2	11,600	GAS	6,210	1,027,375	6,380.0	24,366	4.43	3.92
22. BIG BEND STATION TOTAL	1,533	204,060	17.9	86.9	41.9	12,363	-	-	-	2,522,710.0	9,153,902	4.49	-
23. POLK #1 GASIFIER	220	0	0.0	-	0.0	0	COAL	0	0	0.0	0	0.00	0.00
24. POLK #1 CT (GAS)	210	47,640	30.5	-	89.3	8,336	GAS	386,290	1,028,036	397,120.0	1,515,646	3.18	3.92
25. POLK #1 TOTAL	220	47,640	29.1	92.5	89.3	8,336	-	-	-	397,120.0	1,515,646	3.18	-
26. POLK #2 ST DUCT FIRING	120	18,130	20.3	-	81.7	8,272	GAS	145,890	1,027,966	149,970.0	572,413	3.16	3.92
27. POLK #2 ST W/O DUCT FIRING	341	560,331	-	-	-	-	GAS	3,861,112	1,028,011	3,969,265.7	15,149,443	2.70	3.92
28. POLK #2 ST TOTAL	461	578,461	168.7	-	136.5	7,121	GAS	-	-	4,119,235.7	15,721,856	2.72	-
29. POLK #2 CT (GAS)	150	0	0.0	-	0.0	0	GAS	0	0	0.0	0	0.00	0.00
30. POLK #2 CT (OIL)	159	664	0.6	-	94.3	11,005	LGT OIL	1,246	5,864,446	7,307.1	158,879	23.93	127.51
31. POLK #2 TOTAL <sup>(4)</sup>	150	664	0.6	-	94.3	11,005	-	-	-	7,307.1	158,879	23.93	-
32. POLK #3 CT (GAS)	150	0	0.0	-	0.0	0	GAS	0	0	0.0	0	0.00	0.00
33. POLK #3 CT (OIL)	159	664	0.6	-	94.3	11,005	LGT OIL	1,246	5,864,446	7,307.1	158,878	23.93	127.51
34. POLK #3 TOTAL <sup>(4)</sup>	150	664	0.6	-	94.3	11,005	-	-	-	7,307.1	158,878	23.93	-
35. POLK #4 CT (GAS) TOTAL <sup>(4)</sup>	150	0	0.0	-	0.0	0	GAS	0	0	0.0	0	0.00	0.00
36. POLK #5 CT (GAS) TOTAL <sup>(4)</sup>	150	0	0.0	-	0.0	0	GAS	0	0	0.0	0	0.00	0.00
37. POLK #2 CC TOTAL	1,061	579,789	73.4	98.2	136.1	7,130	-	-	-	4,133,849.9	16,039,613	2.77	-
38. POLK STATION TOTAL	1,281	627,429	65.8	97.2	126.1	7,221	-	-	-	4,530,969.9	17,555,259	2.80	-
39. BAYSIDE #1	701	440,020	84.4	97.2	87.1	7,295	GAS	3,122,570	1,027,999	3,210,000.0	12,251,702	2.78	3.92
40. BAYSIDE #2	929	513,810	74.3	97.5	77.2	7,394	GAS	3,695,530	1,028,001	3,799,010.0	14,499,766	2.82	3.92
41. BAYSIDE #3	56	1,710	4.1	98.6	89.8	11,918	GAS	19,820	1,028,254	20,380.0	77,766	4.55	3.92
42. BAYSIDE #4	56	1,020	2.4	98.6	95.9	11,755	GAS	11,670	1,027,421	11,990.0	45,788	4.49	3.92
43. BAYSIDE #5	56	2,850	6.8	98.6	82.1	11,912	GAS	33,020	1,028,165	33,950.0	129,557	4.55	3.92
44. BAYSIDE #6	56	2,160	5.2	98.6	91.8	11,731	GAS	24,650	1,027,992	25,340.0	96,717	4.48	3.92
45. BAYSIDE STATION TOTAL	1,854	961,570	69.7	97.5	81.5	7,384	GAS	6,907,260	1,028,001	7,100,670.0	27,101,296	2.82	3.92
46. SYSTEM TOTAL	5,104	1,866,429	49.1	85.9	93.5	7,584	-	-	-	14,154,349.9	53,810,457	2.88	-

LEGEND:  
B.B. = BIG BEND  
CT = COMBUSTION TURBINE

CC = COMBINED CYCLE  
ST = STEAM TURBINE

<sup>(1)</sup> As burned fuel cost system total includes ignition  
<sup>(2)</sup> Fuel burned (MM BTU) system total excludes ignition  
<sup>(3)</sup> AC rating

<sup>(4)</sup> In Simple Cycle Mode

TAMPA ELECTRIC COMPANY  
SYSTEM NET GENERATION AND FUEL COST  
ESTIMATED FOR THE PERIOD: SEPTEMBER 2019

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)
PLANT/UNIT	NET CAPABILITY (MW)	NET GENERATION (MWH)	NET CAPACITY FACTOR (%)	EQUIV. AVAIL. FACTOR (%)	NET OUTPUT FACTOR (%)	AVG. NET HEAT RATE (BTU/KWH)	FUEL TYPE	FUEL BURNED (UNITS)	FUEL HEAT VALUE (BTU/UNIT)	FUEL BURNED (MM BTU) <sup>(2)</sup>	AS BURNED FUEL COST (\$) <sup>(1)</sup>	FUEL COST PER KWH (cents/KWH)	COST OF FUEL (\$/UNIT)
1. TIA SOLAR	1.4	220	21.8	-	21.8	-	SOLAR	-	-	-	-	-	-
2. BIG BEND SOLAR	19.2	3,500	25.3	-	25.3	-	SOLAR	-	-	-	-	-	-
3. LEGOLAND SOLAR	1.4	210	20.8	-	20.8	-	SOLAR	-	-	-	-	-	-
4. PAYNE CREEK SOLAR	68.9	11,510	23.2	-	23.2	-	SOLAR	-	-	-	-	-	-
5. BALM SOLAR	72.9	10,810	20.6	-	20.6	-	SOLAR	-	-	-	-	-	-
6. LITHIA SOLAR	72.9	10,690	20.4	-	20.4	-	SOLAR	-	-	-	-	-	-
7. GRANGE HALL SOLAR	59.7	8,690	20.2	-	20.2	-	SOLAR	-	-	-	-	-	-
8. PEACE CREEK SOLAR	54.4	8,270	21.1	-	21.1	-	SOLAR	-	-	-	-	-	-
9. BONNIE MINE SOLAR	36.5	6,800	25.9	-	25.9	-	SOLAR	-	-	-	-	-	-
10. LAKE HANCOCK SOLAR	48.9	7,500	21.3	-	21.3	-	SOLAR	-	-	-	-	-	-
11. SOLAR TOTAL	<sup>(3)</sup> 436.2	68,200	21.7	-	21.7	-	SOLAR	-	-	-	-	-	-
12. BIG BEND #1 TOTAL	305	6,760	3.1	91.9	36.9	13,948	GAS	91,720	1,028,020	94,290.0	357,178	5.28	3.89
13. BIG BEND #2 TOTAL	340	14,230	5.8	91.9	35.8	12,370	GAS	171,230	1,027,974	176,020.0	666,807	4.69	3.89
14. B.B.#3 (GAS)	345	20,510	8.3	-	-	-	GAS	226,790	1,027,999	233,140.0	883,170	4.31	3.89
15. B.B.#3 (COAL)	395	0	0.0	-	-	-	COAL	0	0	0.0	0	0.00	0.00
16. BIG BEND #3 TOTAL	395	20,510	7.2	89.5	48.1	11,367	-	-	-	233,140.0	883,170	4.31	-
17. B.B.#4 (GAS)	185	2,840	2.1	-	-	-	GAS	34,970	1,028,024	35,950.0	136,181	4.80	3.89
18. B.B.#4 (COAL)	437	53,950	17.1	-	-	-	COAL	30,360	22,498,024	683,040.0	2,238,624	4.15	73.74
19. BIG BEND #4 TOTAL	437	56,790	18.0	37.8	40.4	12,661	-	-	-	718,990.0	2,374,805	4.18	-
20. B.B. IGNITION	-	-	-	-	-	-	GAS	18,780	-	19,310.0	73,133	-	3.89
21. B.B.C.T.#4 TOTAL	56	120	0.3	98.2	71.4	12,917	GAS	1,500	1,033,333	1,550.0	5,841	4.87	3.89
22. BIG BEND STATION TOTAL	1,533	98,410	8.9	76.1	40.7	12,438	-	-	-	1,223,990.0	4,360,934	4.43	-
23. POLK #1 GASIFIER	220	0	0.0	-	0.0	0	COAL	0	0	0.0	0	0.00	0.00
24. POLK #1 CT (GAS)	210	58,060	38.4	-	85.6	8,377	GAS	473,140	1,028,004	486,390.0	1,842,511	3.17	3.89
25. POLK #1 TOTAL	220	58,060	36.7	92.5	85.6	8,377	-	-	-	486,390.0	1,842,511	3.17	-
26. POLK #2 ST DUCT FIRING	120	15,980	18.5	-	80.2	8,274	GAS	128,620	1,027,989	132,220.0	500,874	3.13	3.89
27. POLK #2 ST W/O DUCT FIRING	341	553,334	-	-	-	-	GAS	3,814,592	1,028,010	3,921,437.1	14,854,855	2.68	3.89
28. POLK #2 ST TOTAL	461	569,314	171.5	-	141.0	7,120	GAS	-	-	4,053,657.1	15,355,729	2.70	-
29. POLK #2 CT (GAS)	150	500	0.5	-	83.3	12,200	GAS	5,940	1,026,936	6,100.0	23,132	4.63	3.89
30. POLK #2 CT (OIL)	159	643	0.6	-	94.4	10,998	LGT OIL	1,206	5,863,516	7,071.4	153,754	23.91	127.49
31. POLK #2 TOTAL	<sup>(4)</sup> 150	1,143	1.1	-	89.2	11,524	-	-	-	13,171.4	176,886	15.48	-
32. POLK #3 CT (GAS)	150	490	0.5	-	81.7	12,204	GAS	5,820	1,027,491	5,980.0	22,664	4.63	3.89
33. POLK #3 CT (OIL)	159	643	0.6	-	94.4	10,998	LGT OIL	1,206	5,863,516	7,071.4	153,753	23.91	127.49
34. POLK #3 TOTAL	<sup>(4)</sup> 150	1,133	1.0	-	88.4	11,519	-	-	-	13,051.4	176,417	15.57	-
35. POLK #4 CT (GAS) TOTAL	<sup>(4)</sup> 150	300	0.3	-	100.0	11,733	GAS	3,420	1,029,240	3,520.0	13,318	4.44	3.89
36. POLK #5 CT (GAS) TOTAL	<sup>(4)</sup> 150	0	0.0	-	0.0	0	GAS	0	0	0.0	0	0.00	0.00
37. POLK #2 CC TOTAL	1,061	571,890	74.9	98.2	139.9	7,140	-	-	-	4,083,399.9	15,722,350	2.75	-
38. POLK STATION TOTAL	1,281	629,950	68.3	97.2	125.5	7,254	-	-	-	4,569,789.9	17,564,861	2.79	-
39. BAYSIDE #1	701	434,370	86.1	97.2	88.5	7,288	GAS	3,079,670	1,028,000	3,165,900.0	11,992,908	2.76	3.89
40. BAYSIDE #2	929	526,240	78.7	97.5	81.7	7,367	GAS	3,771,240	1,027,999	3,876,830.0	14,686,033	2.79	3.89
41. BAYSIDE #3	56	1,460	3.6	98.6	89.9	11,849	GAS	16,830	1,027,926	17,300.0	65,540	4.49	3.89
42. BAYSIDE #4	56	540	1.3	98.6	80.4	12,759	GAS	6,700	1,028,358	6,890.0	26,091	4.83	3.89
43. BAYSIDE #5	56	2,870	7.1	98.6	88.4	11,798	GAS	32,930	1,028,242	33,860.0	128,237	4.47	3.89
44. BAYSIDE #6	56	2,220	5.5	98.6	88.1	11,730	GAS	25,340	1,027,624	26,040.0	98,679	4.45	3.89
45. BAYSIDE STATION TOTAL	1,854	967,700	72.5	97.5	84.7	7,365	GAS	6,932,710	1,027,999	7,126,820.0	26,997,488	2.79	3.89
46. SYSTEM TOTAL	5,104	1,764,260	48.0	82.7	102.6	7,324	-	-	-	12,920,599.9	48,923,283	2.77	-

LEGEND:  
B.B. = BIG BEND  
CT = COMBUSTION TURBINE

CC = COMBINED CYCLE  
ST = STEAM TURBINE

<sup>(1)</sup> As burned fuel cost system total includes ignition  
<sup>(2)</sup> Fuel burned (MM BTU) system total excludes ignition  
<sup>(3)</sup> AC rating

<sup>(4)</sup> In Simple Cycle Mode

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TAMPA ELECTRIC COMPANY  
SYSTEM NET GENERATION AND FUEL COST  
ESTIMATED FOR THE PERIOD: OCTOBER 2019

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)
PLANT/UNIT	NET CAPABILITY (MW)	NET GENERATION (MWH)	NET CAPACITY FACTOR (%)	EQUIV. AVAIL. FACTOR (%)	NET OUTPUT FACTOR (%)	AVG. NET HEAT RATE (BTU/KWH)	FUEL TYPE	FUEL BURNED (UNITS)	FUEL HEAT VALUE (BTU/UNIT)	FUEL BURNED (MM BTU) <sup>(2)</sup>	AS BURNED FUEL COST (\$) <sup>(1)</sup>	FUEL COST PER KWH (cents/KWH)	COST OF FUEL (\$/UNIT)
1. TIA SOLAR	1.4	250	24.0	-	24.0	-	SOLAR	-	-	-	-	-	-
2. BIG BEND SOLAR	19.2	3,670	25.7	-	25.7	-	SOLAR	-	-	-	-	-	-
3. LEGOLAND SOLAR	1.4	200	19.2	-	19.2	-	SOLAR	-	-	-	-	-	-
4. PAYNE CREEK SOLAR	68.9	12,330	24.1	-	24.1	-	SOLAR	-	-	-	-	-	-
5. BALM SOLAR	72.9	12,800	23.6	-	23.6	-	SOLAR	-	-	-	-	-	-
6. LITHIA SOLAR	72.9	11,900	21.9	-	21.9	-	SOLAR	-	-	-	-	-	-
7. GRANGE HALL SOLAR	59.7	9,110	20.5	-	20.5	-	SOLAR	-	-	-	-	-	-
8. PEACE CREEK SOLAR	54.4	9,330	23.1	-	23.1	-	SOLAR	-	-	-	-	-	-
9. BONNIE MINE SOLAR	36.5	7,180	26.4	-	26.4	-	SOLAR	-	-	-	-	-	-
10. LAKE HANCOCK SOLAR	48.9	7,280	20.0	-	20.0	-	SOLAR	-	-	-	-	-	-
11. SOLAR TOTAL	<u>436.2</u>	<u>74,050</u>	<u>22.8</u>	-	<u>22.8</u>	-	<u>SOLAR</u>	-	-	-	-	-	-
12. BIG BEND #1 TOTAL	305	0	0.0	91.9	0.0	0	GAS	0	0	0.0	0	0.00	0.00
13. BIG BEND #2 TOTAL	340	13,100	5.2	91.9	38.1	12,158	GAS	154,940	1,027,946	159,270.0	615,984	4.70	3.98
14. B.B.#3 (GAS)	345	25,350	9.9	-	-	-	GAS	278,770	1,028,016	286,580.0	1,108,286	4.37	3.98
15. B.B.#3 (COAL)	395	0	0.0	-	-	-	COAL	0	0	0.0	0	0.00	0.00
16. BIG BEND #3 TOTAL	<u>395</u>	<u>25,350</u>	<u>8.6</u>	<u>89.5</u>	<u>49.4</u>	<u>11,305</u>	-	-	-	<u>286,580.0</u>	<u>1,108,286</u>	<u>4.37</u>	-
17. B.B.#4 (GAS)	185	860	0.6	-	-	-	GAS	10,190	1,027,478	10,470.0	40,512	4.71	3.98
18. B.B.#4 (COAL)	437	16,380	5.0	-	-	-	COAL	8,840	22,504,525	198,940.0	674,636	4.12	76.32
19. BIG BEND #4 TOTAL	<u>437</u>	<u>17,240</u>	<u>5.3</u>	<u>9.8</u>	<u>45.9</u>	<u>12,147</u>	-	-	-	<u>209,410.0</u>	<u>715,148</u>	<u>4.15</u>	-
20. B.B. IGNITION	-	-	-	-	-	-	GAS	27,550	-	28,320.0	109,529	-	3.98
21. B.B.C.T.#4 TOTAL	56	190	0.5	76.0	84.8	12,579	GAS	2,320	1,030,172	2,390.0	9,223	4.85	3.98
22. BIG BEND STATION TOTAL	<u>1,533</u>	<u>55,880</u>	<u>4.9</u>	<u>67.3</u>	<u>45.2</u>	<u>11,769</u>	-	-	-	<u>657,650.0</u>	<u>2,558,170</u>	<u>4.58</u>	-
23. POLK #1 GASIFIER	220	0	0.0	-	0.0	0	COAL	0	0	0.0	0	0.00	0.00
24. POLK #1 CT (GAS)	210	26,810	17.2	-	89.9	8,251	GAS	215,180	1,028,023	221,210.0	855,476	3.19	3.98
25. POLK #1 TOTAL	<u>220</u>	<u>26,810</u>	<u>16.4</u>	<u>50.7</u>	<u>89.9</u>	<u>8,251</u>	-	-	-	<u>221,210.0</u>	<u>855,476</u>	<u>3.19</u>	-
26. POLK #2 ST DUCT FIRING	120	14,610	16.4	-	73.3	8,276	GAS	117,610	1,028,059	120,910.0	467,574	3.20	3.98
27. POLK #2 ST W/O DUCT FIRING	341	537,696	-	-	-	-	GAS	3,699,062	1,028,010	3,802,672.9	14,706,104	2.74	3.98
28. POLK #2 ST TOTAL	<u>461</u>	<u>552,306</u>	<u>161.0</u>	-	<u>134.0</u>	<u>7,104</u>	<u>GAS</u>	-	-	<u>3,923,582.9</u>	<u>15,173,678</u>	<u>2.75</u>	-
29. POLK #2 CT (GAS)	150	1,020	0.9	-	97.1	11,588	GAS	11,500	1,027,826	11,820.0	45,719	4.48	3.98
30. POLK #2 CT (OIL)	159	600	0.5	-	94.3	11,000	LGT OIL	1,126	5,861,456	6,600.0	143,542	23.92	127.48
31. POLK #2 TOTAL	<u>150</u>	<u>1,620</u>	<u>1.5</u>	-	<u>96.1</u>	<u>11,370</u>	-	-	-	<u>18,420.0</u>	<u>189,261</u>	<u>11.68</u>	-
32. POLK #3 CT (GAS)	150	900	0.8	-	100.0	11,500	GAS	10,070	1,027,805	10,350.0	40,035	4.45	3.98
33. POLK #3 CT (OIL)	159	664	0.6	-	94.3	11,005	LGT OIL	1,246	5,864,446	7,307.1	158,840	23.92	127.48
34. POLK #3 TOTAL	<u>150</u>	<u>1,564</u>	<u>1.4</u>	-	<u>97.5</u>	<u>11,290</u>	-	-	-	<u>17,657.1</u>	<u>198,875</u>	<u>12.72</u>	-
35. POLK #4 CT (GAS) TOTAL	<u>150</u>	<u>0</u>	<u>0.0</u>	-	<u>0.0</u>	<u>0</u>	<u>GAS</u>	<u>0</u>	<u>0</u>	<u>0.0</u>	<u>0</u>	<u>0.00</u>	<u>0.00</u>
36. POLK #5 CT (GAS) TOTAL	<u>150</u>	<u>0</u>	<u>0.0</u>	-	<u>0.0</u>	<u>0</u>	<u>GAS</u>	<u>0</u>	<u>0</u>	<u>0.0</u>	<u>0</u>	<u>0.00</u>	<u>0.00</u>
37. POLK #2 CC TOTAL	1,061	555,490	70.4	95.8	133.1	7,128	-	-	-	3,959,660.0	15,561,814	2.80	-
38. POLK STATION TOTAL	<u>1,281</u>	<u>582,300</u>	<u>61.1</u>	<u>88.0</u>	<u>127.3</u>	<u>7,180</u>	-	-	-	<u>4,180,870.0</u>	<u>16,417,290</u>	<u>2.82</u>	-
39. BAYSIDE #1	701	374,850	71.9	84.6	84.9	7,303	GAS	2,662,980	1,028,002	2,737,550.0	10,587,024	2.82	3.98
40. BAYSIDE #2	929	488,640	70.7	97.5	73.4	7,415	GAS	3,524,420	1,028,002	3,623,110.0	14,011,791	2.87	3.98
41. BAYSIDE #3	56	1,080	2.6	98.6	96.4	11,519	GAS	12,120	1,026,403	12,440.0	48,185	4.46	3.98
42. BAYSIDE #4	56	580	1.4	98.6	94.2	11,638	GAS	6,580	1,025,836	6,750.0	26,160	4.51	3.98
43. BAYSIDE #5	56	1,910	4.6	98.6	97.4	11,445	GAS	21,290	1,026,773	21,860.0	84,641	4.43	3.98
44. BAYSIDE #6	56	1,380	3.3	98.6	98.6	11,406	GAS	15,320	1,027,415	15,740.0	60,907	4.41	3.98
45. BAYSIDE STATION TOTAL	<u>1,854</u>	<u>868,440</u>	<u>63.0</u>	<u>92.8</u>	<u>78.0</u>	<u>7,390</u>	<u>GAS</u>	<u>6,242,710</u>	<u>1,027,991</u>	<u>6,417,450.0</u>	<u>24,818,708</u>	<u>2.86</u>	-
46. SYSTEM TOTAL	<u>5,104</u>	<u>1,580,670</u>	<u>41.6</u>	<u>76.0</u>	<u>102.7</u>	<u>7,121</u>	-	-	-	<u>11,255,970.0</u>	<u>43,794,168</u>	<u>2.77</u>	-

LEGEND:  
B.B. = BIG BEND  
CT = COMBUSTION TURBINE

CC = COMBINED CYCLE  
ST = STEAM TURBINE

<sup>(1)</sup> As burned fuel cost system total includes ignition  
<sup>(2)</sup> Fuel burned (MM BTU) system total excludes ignition  
<sup>(3)</sup> AC rating

<sup>(4)</sup> In Simple Cycle Mode

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TAMPA ELECTRIC COMPANY  
SYSTEM NET GENERATION AND FUEL COST  
ESTIMATED FOR THE PERIOD: NOVEMBER 2019

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)
PLANT/UNIT	NET CAPABILITY (MW)	NET GENERATION (MWH)	NET CAPACITY FACTOR (%)	EQUIV. AVAIL. FACTOR (%)	NET OUTPUT FACTOR (%)	AVG. NET HEAT RATE (BTU/KWH)	FUEL TYPE	FUEL BURNED (UNITS)	FUEL HEAT VALUE (BTU/UNIT)	FUEL BURNED (MM BTU) <sup>(2)</sup>	AS BURNED FUEL COST (\$) <sup>(1)</sup>	FUEL COST PER KWH (cents/KWH)	COST OF FUEL (\$/UNIT)
1. TIA SOLAR	1.4	230	22.8	-	22.8	-	SOLAR	-	-	-	-	-	-
2. BIG BEND SOLAR	19.2	3,030	21.9	-	21.9	-	SOLAR	-	-	-	-	-	-
3. LEGOLAND SOLAR	1.4	170	16.9	-	16.9	-	SOLAR	-	-	-	-	-	-
4. PAYNE CREEK SOLAR	68.9	9,180	18.5	-	18.5	-	SOLAR	-	-	-	-	-	-
5. BALM SOLAR	72.9	9,260	17.6	-	17.6	-	SOLAR	-	-	-	-	-	-
6. LITHIA SOLAR	72.9	10,460	19.9	-	19.9	-	SOLAR	-	-	-	-	-	-
7. GRANGE HALL SOLAR	59.7	7,370	17.1	-	17.1	-	SOLAR	-	-	-	-	-	-
8. PEACE CREEK SOLAR	54.4	7,100	18.1	-	18.1	-	SOLAR	-	-	-	-	-	-
9. BONNIE MINE SOLAR	36.5	6,090	23.2	-	23.2	-	SOLAR	-	-	-	-	-	-
10. LAKE HANCOCK SOLAR	48.9	6,350	18.0	-	18.0	-	SOLAR	-	-	-	-	-	-
11. SOLAR TOTAL	<u>436.2</u>	<u>59,240</u>	<u>18.9</u>	-	<u>18.9</u>	-	<u>SOLAR</u>	-	-	-	-	-	-
12. BIG BEND #1 TOTAL	305	19,110	8.7	42.9	60.8	11,999	GAS	223,050	1,028,021	229,300.0	890,002	4.66	3.99
13. BIG BEND #2 TOTAL	340	9,750	4.0	42.9	53.1	11,235	GAS	106,550	1,028,062	109,540.0	425,150	4.36	3.99
14. B.B.#3 (GAS)	345	49,570	20.0	-	-	-	GAS	533,950	1,027,999	548,900.0	2,130,539	4.30	3.99
15. B.B.#3 (COAL)	395	0	0.0	-	-	-	COAL	0	0	0.0	0.00	0.00	0.00
16. BIG BEND #3 TOTAL	<u>395</u>	<u>49,570</u>	<u>17.4</u>	<u>89.5</u>	<u>54.8</u>	<u>11,073</u>	-	-	-	<u>548,900.0</u>	<u>2,130,539</u>	<u>4.30</u>	-
17. B.B.#4 (GAS)	185	5,880	4.4	-	-	-	GAS	71,610	1,028,069	73,620.0	285,734	4.86	3.99
18. B.B.#4 (COAL)	437	111,700	35.5	-	-	-	COAL	62,170	22,499,115	1,398,770.0	4,678,032	4.19	75.25
19. BIG BEND #4 TOTAL	<u>437</u>	<u>117,580</u>	<u>37.4</u>	<u>75.6</u>	<u>41.8</u>	<u>12,522</u>	-	-	-	<u>1,472,390.0</u>	<u>4,963,766</u>	<u>4.22</u>	-
20. B.B. IGNITION	-	-	-	-	-	-	GAS	25,460	-	26,180.0	101,589	-	3.99
21. B.B.C.T.#4 TOTAL	56	1,520	3.8	78.6	93.6	11,559	GAS	17,100	1,027,485	17,570.0	68,232	4.49	3.99
22. BIG BEND STATION TOTAL	<u>1,533</u>	<u>197,530</u>	<u>17.9</u>	<u>65.5</u>	<u>46.7</u>	<u>12,037</u>	-	-	-	<u>2,377,700.0</u>	<u>8,579,279</u>	<u>4.34</u>	-
23. POLK #1 GASIFIER	220	0	0.0	-	0.0	0	COAL	0	0	0.0	0	0.00	0.00
24. POLK #1 CT (GAS)	210	56,790	37.6	-	89.3	8,286	GAS	457,780	1,027,961	470,580.0	1,826,610	3.22	3.99
25. POLK #1 TOTAL	<u>220</u>	<u>56,790</u>	<u>35.9</u>	<u>92.5</u>	<u>89.3</u>	<u>8,286</u>	-	-	-	<u>470,580.0</u>	<u>1,826,610</u>	<u>3.22</u>	-
26. POLK #2 ST DUCT FIRING	120	11,770	13.6	-	67.2	8,276	GAS	94,770	1,027,857	97,410.0	378,146	3.21	3.99
27. POLK #2 ST W/O DUCT FIRING	341	387,440	-	-	-	-	GAS	2,652,802	1,028,011	2,727,110.0	10,585,073	2.73	3.99
28. POLK #2 ST TOTAL	<u>461</u>	<u>399,210</u>	<u>120.3</u>	-	<u>118.1</u>	<u>7,075</u>	<u>GAS</u>	-	-	<u>2,824,520.0</u>	<u>10,963,219</u>	<u>2.75</u>	-
29. POLK #2 CT (GAS)	150	2,740	2.5	-	96.1	11,759	GAS	31,340	1,028,079	32,220.0	125,051	4.56	3.99
30. POLK #2 CT (OIL)	159	557	0.5	-	94.3	11,003	LGT OIL	1,045	5,864,689	6,128.6	133,214	23.92	127.48
31. POLK #2 TOTAL	<u>150</u>	<u>3,297</u>	<u>3.1</u>	-	<u>95.8</u>	<u>11,631</u>	-	-	-	<u>38,348.6</u>	<u>258,265</u>	<u>7.83</u>	-
32. POLK #3 CT (GAS)	150	1,870	1.7	-	95.9	11,668	GAS	21,230	1,027,791	21,820.0	84,711	4.53	3.99
33. POLK #3 CT (OIL)	159	493	0.4	-	94.4	10,997	LGT OIL	925	5,860,973	5,421.4	117,917	23.92	127.48
34. POLK #3 TOTAL	<u>150</u>	<u>2,363</u>	<u>2.2</u>	-	<u>95.6</u>	<u>11,528</u>	-	-	-	<u>27,241.4</u>	<u>202,628</u>	<u>8.58</u>	-
35. POLK #4 CT (GAS) TOTAL	<u>150</u>	<u>810</u>	<u>0.8</u>	-	<u>90.0</u>	<u>12,111</u>	<u>GAS</u>	<u>9,540</u>	<u>1,028,302</u>	<u>9,810.0</u>	<u>38,066</u>	<u>4.70</u>	<u>3.99</u>
36. POLK #5 CT (GAS) TOTAL	<u>150</u>	<u>0</u>	<u>0.0</u>	-	<u>0.0</u>	<u>0</u>	<u>GAS</u>	<u>0</u>	<u>0</u>	<u>0.0</u>	<u>0</u>	<u>0.00</u>	<u>0.00</u>
37. POLK #2 CC TOTAL	1,061	405,680	53.1	73.1	116.8	7,148	-	-	-	2,899,920.0	11,462,178	2.83	-
38. POLK STATION TOTAL	<u>1,281</u>	<u>462,470</u>	<u>50.1</u>	<u>76.4</u>	<u>109.1</u>	<u>7,288</u>	-	-	-	<u>3,370,500.0</u>	<u>13,288,788</u>	<u>2.87</u>	-
39. BAYSIDE #1	701	284,950	56.5	97.2	80.2	7,328	GAS	2,031,240	1,027,993	2,088,100.0	8,104,948	2.84	3.99
40. BAYSIDE #2	929	412,760	61.7	97.5	66.5	7,473	GAS	3,000,570	1,028,001	3,084,590.0	11,972,718	2.90	3.99
41. BAYSIDE #3	56	930	2.3	98.6	92.3	11,763	GAS	10,650	1,027,230	10,940.0	42,495	4.57	3.99
42. BAYSIDE #4	56	700	1.7	98.6	89.3	11,986	GAS	8,150	1,029,448	8,390.0	32,520	4.65	3.99
43. BAYSIDE #5	56	1,830	4.5	98.6	93.4	11,650	GAS	20,750	1,027,470	21,320.0	82,796	4.52	3.99
44. BAYSIDE #6	56	1,450	3.6	98.6	92.5	11,593	GAS	16,350	1,028,135	16,810.0	65,239	4.50	3.99
45. BAYSIDE STATION TOTAL	<u>1,854</u>	<u>702,620</u>	<u>52.6</u>	<u>97.5</u>	<u>71.6</u>	<u>7,444</u>	<u>GAS</u>	<u>5,087,710</u>	<u>1,027,997</u>	<u>5,230,150.0</u>	<u>20,300,716</u>	<u>2.89</u>	<u>3.99</u>
46. SYSTEM TOTAL	<u>5,104</u>	<u>1,421,860</u>	<u>38.7</u>	<u>74.3</u>	<u>83.9</u>	<u>7,721</u>	-	-	-	<u>10,978,350.0</u>	<u>42,168,783</u>	<u>2.97</u>	-

LEGEND:  
B.B. = BIG BEND  
CT = COMBUSTION TURBINE

CC = COMBINED CYCLE  
ST = STEAM TURBINE

<sup>(1)</sup> As burned fuel cost system total includes ignition  
<sup>(2)</sup> Fuel burned (MM BTU) system total excludes ignition  
<sup>(3)</sup> AC rating

<sup>(4)</sup> In Simple Cycle Mode

TAMPA ELECTRIC COMPANY  
SYSTEM NET GENERATION AND FUEL COST  
ESTIMATED FOR THE PERIOD: DECEMBER 2019

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)
PLANT/UNIT	NET CAPABILITY (MW)	NET GENERATION (MWH)	NET CAPACITY FACTOR (%)	EQUIV. AVAIL. FACTOR (%)	NET OUTPUT FACTOR (%)	AVG. NET HEAT RATE (BTU/KWH)	FUEL TYPE	FUEL BURNED (UNITS)	FUEL HEAT VALUE (BTU/UNIT)	FUEL BURNED (MM BTU) <sup>(2)</sup>	AS BURNED FUEL COST (\$) <sup>(1)</sup>	FUEL COST PER KWH (cents/KWH)	COST OF FUEL (\$/UNIT)
1. TIA SOLAR	1.4	220	21.1	-	21.1	-	SOLAR	-	-	-	-	-	-
2. BIG BEND SOLAR	19.2	2,750	19.3	-	19.3	-	SOLAR	-	-	-	-	-	-
3. LEGOLAND SOLAR	1.4	150	14.4	-	14.4	-	SOLAR	-	-	-	-	-	-
4. PAYNE CREEK SOLAR	68.9	8,130	15.9	-	15.9	-	SOLAR	-	-	-	-	-	-
5. BALM SOLAR	72.9	8,420	15.5	-	15.5	-	SOLAR	-	-	-	-	-	-
6. LITHIA SOLAR	72.9	9,650	17.8	-	17.8	-	SOLAR	-	-	-	-	-	-
7. GRANGE HALL SOLAR	59.7	6,480	14.6	-	14.6	-	SOLAR	-	-	-	-	-	-
8. PEACE CREEK SOLAR	54.4	6,340	15.7	-	15.7	-	SOLAR	-	-	-	-	-	-
9. BONNIE MINE SOLAR	36.5	5,110	18.8	-	18.8	-	SOLAR	-	-	-	-	-	-
10. LAKE HANCOCK SOLAR	48.9	5,440	15.0	-	15.0	-	SOLAR	-	-	-	-	-	-
11. SOLAR TOTAL	<u>436.2</u>	<u>52,690</u>	<u>16.2</u>	-	<u>16.2</u>	-	<u>SOLAR</u>	-	-	-	-	-	-
12. BIG BEND #1 TOTAL	315	0	0.0	91.9	0.0	0	GAS	0	0	0.0	0	0.00	0.00
13. BIG BEND #2 TOTAL	350	21,650	8.3	91.9	40.4	11,740	GAS	247,260	1,027,987	254,180.0	1,016,063	4.69	4.11
14. B.B.#3 (GAS)	355	27,990	10.6	-	-	-	GAS	305,340	1,028,034	313,900.0	1,254,730	4.48	4.11
15. B.B.#3 (COAL)	400	0	0.0	-	-	-	COAL	0	0	0.0	0	0.00	0.00
16. BIG BEND #3 TOTAL	400	27,990	9.4	89.5	48.3	11,215	-	-	-	313,900.0	1,254,730	4.48	-
17. B.B.#4 (GAS)	195	5,930	4.1	-	-	-	GAS	72,130	1,028,005	74,150.0	296,403	5.00	4.11
18. B.B.#4 (COAL)	442	112,670	34.3	-	-	-	COAL	62,620	22,499,521	1,408,920.0	4,760,784	4.23	76.03
19. BIG BEND #4 TOTAL	442	118,600	36.1	75.6	40.3	12,505	-	-	-	1,483,070.0	5,057,187	4.26	-
20. B.B. IGNITION	-	-	-	-	-	-	GAS	20,450	-	21,030.0	84,035	-	4.11
21. B.B.C.T.#4 TOTAL	61	50	0.1	98.2	82.0	11,600	GAS	570	1,017,544	580.0	2,342	4.68	4.11
22. BIG BEND STATION TOTAL	1,568	168,290	14.4	87.0	41.5	12,192	-	-	-	2,051,730.0	7,414,357	4.41	-
23. POLK #1 GASIFIER	220	0	0.0	-	0.0	0	COAL	0	0	0.0	0	0.00	0.00
24. POLK #1 CT (GAS)	230	50,760	29.7	-	86.5	8,310	GAS	410,320	1,028,027	421,820.0	1,686,123	3.32	4.11
25. POLK #1 TOTAL	230	50,760	29.7	92.5	86.5	8,310	-	-	-	421,820.0	1,686,123	3.32	-
26. POLK #2 ST DUCT FIRING	120	18,870	21.1	-	94.2	8,175	GAS	150,050	1,028,057	154,260.0	616,599	3.27	4.11
27. POLK #2 ST W/O DUCT FIRING	360	515,371	-	-	-	-	GAS	3,631,452	1,028,012	3,733,175.7	14,922,684	2.90	4.11
28. POLK #2 ST TOTAL	480	534,241	149.6	-	123.5	7,277	GAS	-	-	3,887,435.7	15,539,283	2.91	-
29. POLK #2 CT (GAS)	180	360	0.3	-	100.0	11,111	GAS	3,900	1,025,641	4,000.0	16,027	4.45	4.11
30. POLK #2 CT (OIL)	187	664	0.5	-	80.2	11,005	LGT OIL	1,246	5,864,446	7,307.1	158,879	23.93	127.51
31. POLK #2 TOTAL	180	1,024	0.8	-	86.2	11,042	-	-	-	11,307.1	174,906	17.08	-
32. POLK #3 CT (GAS)	180	350	0.3	-	97.2	11,200	GAS	3,810	1,028,871	3,920.0	15,656	4.47	4.11
33. POLK #3 CT (OIL)	187	664	0.5	-	80.2	11,005	LGT OIL	1,246	5,864,446	7,307.1	158,878	23.93	127.51
34. POLK #3 TOTAL	180	1,014	0.8	-	85.3	11,072	-	-	-	11,227.1	174,534	17.21	-
35. POLK #4 CT (GAS) TOTAL	180	340	0.3	-	94.4	11,500	GAS	3,800	1,028,947	3,910.0	15,615	4.59	4.11
36. POLK #5 CT (GAS) TOTAL	180	0	0.0	-	0.0	0	GAS	0	0	0.0	0	0.00	0.00
37. POLK #2 CC TOTAL	1,200	536,619	60.1	97.2	122.9	7,294	-	-	-	3,913,879.9	15,904,338	2.96	-
38. POLK STATION TOTAL	1,430	587,379	55.2	96.5	115.0	7,381	-	-	-	4,335,699.9	17,590,461	2.99	-
39. BAYSIDE #1	792	477,100	81.0	97.2	83.7	7,197	GAS	3,340,180	1,027,995	3,433,690.0	13,725,763	2.88	4.11
40. BAYSIDE #2	1,047	235,750	30.3	59.8	57.9	7,457	GAS	1,710,190	1,028,003	1,758,080.0	7,027,665	2.98	4.11
41. BAYSIDE #3	61	1,010	2.2	98.6	87.1	11,891	GAS	11,680	1,028,253	12,010.0	47,996	4.75	4.11
42. BAYSIDE #4	61	290	0.6	98.6	95.1	11,310	GAS	3,190	1,028,213	3,280.0	13,109	4.52	4.11
43. BAYSIDE #5	61	1,640	3.6	98.6	89.6	11,640	GAS	18,570	1,028,002	19,090.0	76,309	4.65	4.11
44. BAYSIDE #6	61	1,320	2.9	98.6	90.2	11,667	GAS	14,980	1,028,037	15,400.0	61,557	4.66	4.11
45. BAYSIDE STATION TOTAL	2,083	717,110	46.3	78.5	73.0	7,309	GAS	5,098,790	1,027,999	5,241,550.0	20,952,399	2.92	4.11
46. SYSTEM TOTAL	5,517	1,525,469	37.2	79.4	88.0	7,623	-	-	-	11,628,979.9	45,957,217	3.01	-

LEGEND:  
B.B. = BIG BEND  
CT = COMBUSTION TURBINE

CC = COMBINED CYCLE  
ST = STEAM TURBINE

<sup>(1)</sup> As burned fuel cost system total includes ignition  
<sup>(2)</sup> Fuel burned (MM BTU) system total excludes ignition  
<sup>(3)</sup> AC rating

<sup>(4)</sup> In Simple Cycle Mode

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TAMPA ELECTRIC COMPANY  
 SYSTEM GENERATED FUEL COST INVENTORY ANALYSIS  
 ACTUAL FOR THE PERIOD: JANUARY 2019 THROUGH JUNE 2019

SCHEDULE E5

	ACTUAL					
	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
<b>HEAVY OIL</b>						
1. PURCHASES:						
2. UNITS (BBL)	0	0	0	0	0	0
3. UNIT COST (\$/BBL)	0.00	0.00	0.00	0.00	0.00	0.00
4. AMOUNT (\$)	0	0	0	0	0	0
5. BURNED:						
6. UNITS (BBL)	0	0	0	0	0	0
7. UNIT COST (\$/BBL)	0.00	0.00	0.00	0.00	0.00	0.00
8. AMOUNT (\$)	0	0	0	0	0	0
9. ENDING INVENTORY:						
10. UNITS (BBL)	0	0	0	0	0	0
11. UNIT COST (\$/BBL)	0.00	0.00	0.00	0.00	0.00	0.00
12. AMOUNT (\$)	0	0	0	0	0	0
13. DAYS SUPPLY:	0	0	0	0	0	0
<b>LIGHT OIL</b>						
14. PURCHASES:						
15. UNITS (BBL)	0	0	0	0	0	0
16. UNIT COST (\$/BBL)	0.00	0.00	0.00	0.00	0.00	0.00
17. AMOUNT (\$)	0	0	0	0	0	0
18. BURNED:						
19. UNITS (BBL)	0	0	0	0	133	95
20. UNIT COST (\$/BBL)	0.00	0.00	0.00	0.00	128.05	126.68
21. AMOUNT (\$)	0	0	0	0	17,030	12,035
22. ENDING INVENTORY:						
23. UNITS (BBL)	43,998	43,998	43,998	43,998	43,865	43,770
24. UNIT COST (\$/BBL)	127.48	127.48	127.48	127.48	127.48	127.48
25. AMOUNT (\$)	5,609,055	5,609,055	5,609,055	5,609,055	5,592,025	5,579,990
26. DAYS SUPPLY: NORMAL	6	6	6	6	6	6
27. DAYS SUPPLY: EMERGENCY	6	6	6	6	6	6
<b>COAL</b>						
28. PURCHASES:						
29. UNITS (TONS)	35,243	43,537	42,471	23,148	101,004	34,185
30. UNIT COST (\$/TON)	63.66	66.82	70.93	65.66	69.47	87.09
31. AMOUNT (\$)	2,243,622	2,909,338	3,012,483	1,519,856	7,017,109	2,977,136
32. BURNED:						
33. UNITS (TONS)	97,492	41,500	(683)	36,085	65,724	68,443
34. UNIT COST (\$/TON)	72.08	76.76	(1,119.69)	84.79	76.95	77.09
35. AMOUNT (\$)	7,027,027	3,185,512	764,747	3,059,647	5,057,428	5,276,546
36. ENDING INVENTORY:						
37. UNITS (TONS)	290,556	292,593	335,747	322,810	358,090	323,832
38. UNIT COST (\$/TON)	71.65	71.82	71.06	70.99	70.83	72.66
39. AMOUNT (\$)	20,818,864	21,013,952	23,859,040	22,915,539	25,363,274	23,530,493
40. DAYS SUPPLY:	104	139	195	176	166	151
<b>NATURAL GAS</b>						
41. PURCHASES:						
42. UNITS (MCF)	9,444,940	9,261,927	10,652,608	11,615,296	13,471,550	12,152,315
43. UNIT COST (\$/MCF)	4.34	3.43	3.40	3.24	3.41	3.51
44. AMOUNT (\$)	40,956,715	31,750,210	36,253,362	37,610,162	45,902,802	42,623,195
45. BURNED:						
46. UNITS (MCF)	9,320,260	9,434,950	10,695,636	11,545,290	13,438,626	11,971,401
47. UNIT COST (\$/MCF)	4.57	3.75	3.68	3.50	3.40	3.52
48. AMOUNT (\$)	42,579,316	35,411,957	39,411,549	40,417,422	45,725,828	42,117,999
49. ENDING INVENTORY:						
50. UNITS (MCF)	555,614	382,591	339,563	409,569	442,493	623,407
51. UNIT COST (\$/MCF)	3.77	3.63	3.55	3.26	3.18	2.94
52. AMOUNT (\$)	2,095,268	1,389,915	1,206,906	1,334,686	1,408,176	1,835,849
53. DAYS SUPPLY:	2	1	1	1	1	2
<b>NUCLEAR</b>						
54. BURNED:						
55. UNITS (MMBTU)	0	0	0	0	0	0
56. UNIT COST (\$/MMBTU)	0.00	0.00	0.00	0.00	0.00	0.00
57. AMOUNT (\$)	0	0	0	0	0	0
<b>OTHER</b>						
58. PURCHASES:						
59. UNITS (MMBTU)	0	0	0	0	0	0
60. UNIT COST (\$/MMBTU)	0.00	0.00	0.00	0.00	0.00	0.00
61. AMOUNT (\$)	0	0	0	0	0	0
62. BURNED:						
63. UNITS (MMBTU)	0	0	0	0	0	0
64. UNIT COST (\$/MMBTU)	0.00	0.00	0.00	0.00	0.00	0.00
65. AMOUNT (\$)	0	0	0	0	0	0
66. ENDING INVENTORY:						
67. UNITS (MMBTU)	0	0	0	0	0	0
68. UNIT COST (\$/MMBTU)	0.00	0.00	0.00	0.00	0.00	0.00
69. AMOUNT (\$)	0	0	0	0	0	0
70. DAYS SUPPLY:	0	0	0	0	0	0

NOTE: BEGINNING & ENDING INVENTORIES MAY NOT BALANCE BECAUSE OF THE FOLLOWING

(1) LIGHT OIL-IGNITION, OTHER USAGE, AND ANALYSIS

(2) COAL-IGNITION, ADDITIVES, ANALYSIS, AND INVENTORY ADJUSTMENTS

(3) GAS-IGNITION AND ADDITIVES

TAMPA ELECTRIC COMPANY  
 SYSTEM GENERATED FUEL COST INVENTORY ANALYSIS  
 ESTIMATED FOR THE PERIOD: JULY 2019 THROUGH DECEMBER 2019

SCHEDULE E5

	Jul-19	Aug-19	Estimated Sep-19	Oct-19	Nov-19	Dec-19	TOTAL
<b>HEAVY OIL</b>							
1. PURCHASES:							
2. UNITS (BBL)	0	0	0	0	0	0	0
3. UNIT COST (\$/BBL)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4. AMOUNT (\$)	0	0	0	0	0	0	0
5. BURNED:							
6. UNITS (BBL)	0	0	0	0	0	0	0
7. UNIT COST (\$/BBL)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8. AMOUNT (\$)	0	0	0	0	0	0	0
9. ENDING INVENTORY:							
10. UNITS (BBL)	0	0	0	0	0	0	0
11. UNIT COST (\$/BBL)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12. AMOUNT (\$)	0	0	0	0	0	0	0
13. DAYS SUPPLY:	0	0	0	0	0	0	-
<b>LIGHT OIL</b>							
14. PURCHASES:							
15. UNITS (BBL)	0	0	0	0	0	0	0
16. UNIT COST (\$/BBL)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17. AMOUNT (\$)	0	0	0	0	0	0	0
18. BURNED:							
19. UNITS (BBL)	2,492	2,492	2,412	2,372	1,970	2,492	14,458
20. UNIT COST (\$/BBL)	127.51	127.51	127.49	127.48	127.48	127.51	127.50
21. AMOUNT (\$)	317,757	317,757	307,507	302,382	251,131	317,757	1,843,356
22. ENDING INVENTORY:							
23. UNITS (BBL)	41,278	38,785	36,373	34,001	32,031	29,539	29,539
24. UNIT COST (\$/BBL)	127.48	127.48	127.48	127.48	127.48	127.48	127.48
25. AMOUNT (\$)	5,262,233	4,944,476	4,636,969	4,334,587	4,083,456	3,765,699	3,765,699
26. DAYS SUPPLY: NORMAL	6	6	5	5	5	4	-
27. DAYS SUPPLY: EMERGENCY	6	6	5	5	5	4	-
<b>COAL</b>							
28. PURCHASES:							
29. UNITS (TONS)	98,201	60,129	60,129	60,129	59,321	44,247	661,744
30. UNIT COST (\$/TON)	68.59	65.08	65.08	65.08	68.68	67.73	68.34
31. AMOUNT (\$)	6,736,090	3,913,270	3,913,270	3,913,270	4,074,040	2,996,723	45,226,207
32. BURNED:							
33. UNITS (TONS)	61,590	62,320	30,360	8,840	62,170	62,620	596,461
34. UNIT COST (\$/TON)	75.63	75.31	73.74	76.32	75.25	76.03	77.25
35. AMOUNT (\$)	4,658,228	4,693,519	2,238,624	674,636	4,678,032	4,760,784	46,074,730
36. ENDING INVENTORY:							
37. UNITS (TONS)	372,727	370,536	400,305	451,594	448,745	430,372	430,372
38. UNIT COST (\$/TON)	71.41	70.96	70.31	69.66	69.77	69.84	69.84
39. AMOUNT (\$)	26,617,179	26,291,817	28,143,525	31,456,917	31,310,812	30,055,943	30,055,943
40. DAYS SUPPLY:	222	336	359	311	221	304	-
<b>NATURAL GAS</b>							
41. PURCHASES:							
42. UNITS (MCF)	11,777,250	12,437,362	11,909,232	10,769,902	9,235,615	9,947,872	132,675,869
43. UNIT COST (\$/MCF)	3.92	3.92	3.89	3.98	4.00	4.11	3.75
44. AMOUNT (\$)	46,172,667	48,803,181	46,371,552	42,822,750	36,963,120	40,917,676	497,147,392
45. BURNED:							
46. UNITS (MCF)	12,011,552	12,437,362	11,909,232	10,769,902	9,332,892	9,947,872	132,814,975
47. UNIT COST (\$/MCF)	3.90	3.92	3.89	3.98	3.99	4.11	3.83
48. AMOUNT (\$)	46,854,916	48,799,181	46,377,152	42,817,150	37,239,620	40,878,676	508,630,766
49. ENDING INVENTORY:							
50. UNITS (MCF)	389,105	389,105	389,105	389,105	291,829	291,829	291,829
51. UNIT COST (\$/MCF)	2.96	2.98	2.96	2.98	3.02	3.15	3.15
52. AMOUNT (\$)	1,153,600	1,157,600	1,152,000	1,157,600	881,100	920,100	920,100
53. DAYS SUPPLY:	1	1	1	1	1	1	-
<b>NUCLEAR</b>							
54. BURNED:							
55. UNITS (MMBTU)	0	0	0	0	0	0	0
56. UNIT COST (\$/MMBTU)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
57. AMOUNT (\$)	0	0	0	0	0	0	0
<b>OTHER</b>							
58. PURCHASES:							
59. UNITS (MMBTU)	0	0	0	0	0	0	0
60. UNIT COST (\$/MMBTU)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
61. AMOUNT (\$)	0	0	0	0	0	0	0
62. BURNED:							
63. UNITS (MMBTU)	0	0	0	0	0	0	0
64. UNIT COST (\$/MMBTU)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65. AMOUNT (\$)	0	0	0	0	0	0	0
66. ENDING INVENTORY:							
67. UNITS (MMBTU)	0	0	0	0	0	0	0
68. UNIT COST (\$/MMBTU)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
69. AMOUNT (\$)	0	0	0	0	0	0	0
70. DAYS SUPPLY:	0	0	0	0	0	0	-

NOTE: BEGINNING & ENDING INVENTORIES MAY NOT BALANCE BECAUSE OF THE FOLLOWING  
 (1) LIGHT OIL-IGNITION AND ANALYSIS (2) COAL-IGNITION, ADDITIVES, ANALYSIS, AND INVENTORY ADJUSTMENTS (3) GAS-IGNITION

TAMPA ELECTRIC COMPANY  
POWER SOLD  
ACTUAL FOR THE PERIOD: JANUARY 2019 THROUGH JUNE 2019

SCHEDULE E6

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)		
MONTH	SOLD TO	TYPE & SCHEDULE	MWH			CENTS/KWH		TOTAL \$ FOR FUEL ADJUSTMENT	TOTAL COST	GAINS ON MARKET BASED SALES	
			TOTAL	FROM	MWH	(A)	(B)				
			MWH SOLD	OTHER SYSTEMS	FROM OWN GENERATION	FUEL COST	TOTAL COST				
<b>ACTUAL</b>											
Jan-19	SEMINOLE	JURISD.	SCH. - D	2,838.2	1.2	2,837.0	2.267	2.493	64,301.51	70,731.66	2,905.74
	VARIOUS	JURISD.	SCH. - MA	3,109.0	0.0	3,109.0	2.314	3.524	71,957.73	109,548.05	30,781.97
	<b>TOTAL</b>			<b>5,947.2</b>	<b>1.2</b>	<b>5,946.0</b>	<b>2.292</b>	<b>3.032</b>	<b>136,259.24</b>	<b>180,279.71</b>	<b>33,687.71</b>
<b>ACTUAL</b>											
Feb-19	SEMINOLE	JURISD.	SCH. - D	3,148.0	0.0	3,148.0	2.200	2.420	69,268.28	76,195.11	3,633.78
	VARIOUS	JURISD.	SCH. - MA	1,584.0	0.0	1,584.0	2.191	3.187	34,708.77	50,477.88	12,277.47
	<b>TOTAL</b>			<b>4,732.0</b>	<b>0.0</b>	<b>4,732.0</b>	<b>2.197</b>	<b>2.677</b>	<b>103,977.05</b>	<b>126,672.99</b>	<b>15,911.25</b>
<b>ACTUAL</b>											
Mar-19	SEMINOLE	JURISD.	SCH. - D	3,279.0	0.0	3,279.0	2.026	2.229	66,433.89	73,077.28	3,212.76
	VARIOUS	JURISD.	SCH. - MA	1,259.0	0.0	1,259.0	2.299	3.443	28,943.67	43,345.01	13,037.99
	<b>TOTAL</b>			<b>4,538.0</b>	<b>0.0</b>	<b>4,538.0</b>	<b>2.102</b>	<b>2.565</b>	<b>95,377.56</b>	<b>116,422.29</b>	<b>16,250.75</b>
<b>ACTUAL</b>											
Apr-19	SEMINOLE	JURISD.	SCH. - D	3,315.0	0.0	3,315.0	1.836	2.019	60,852.52	66,937.77	3,631.07
	VARIOUS	JURISD.	SCH. - MA	1,699.0	0.0	1,699.0	2.224	3.975	37,788.77	67,538.23	27,731.05
	<b>TOTAL</b>			<b>5,014.0</b>	<b>0.0</b>	<b>5,014.0</b>	<b>1.967</b>	<b>2.682</b>	<b>98,641.29</b>	<b>134,476.00</b>	<b>31,362.12</b>
<b>ACTUAL</b>											
May-19	SEMINOLE	JURISD.	SCH. - D	2,232.0	0.0	2,232.0	1.971	2.168	43,994.38	48,393.82	2,203.76
	VARIOUS	JURISD.	SCH. - MA	12,516.0	0.0	12,516.0	2.568	4.276	321,377.08	535,239.94	194,939.61
	<b>TOTAL</b>			<b>14,748.0</b>	<b>0.0</b>	<b>14,748.0</b>	<b>2.477</b>	<b>3.957</b>	<b>365,371.46</b>	<b>583,633.76</b>	<b>197,143.37</b>
<b>ACTUAL</b>											
Jun-19	SEMINOLE	JURISD.	SCH. - D	1,716.0	0.0	1,716.0	1.743	1.918	29,913.42	32,904.76	2,187.61
	VARIOUS	JURISD.	SCH. - MA	8,763.0	0.0	8,763.0	2.819	4.719	247,026.20	413,519.83	158,620.01
	<b>TOTAL</b>			<b>10,479.0</b>	<b>0.0</b>	<b>10,479.0</b>	<b>2.643</b>	<b>4.260</b>	<b>276,939.62</b>	<b>446,424.59</b>	<b>160,807.62</b>

TAMPA ELECTRIC COMPANY  
 POWER SOLD  
 ESTIMATED FOR THE PERIOD: JULY 2019 THROUGH DECEMBER 2019

SCHEDULE E6

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)		
MONTH	SOLD TO	TYPE & SCHEDULE	TOTAL MWH SOLD	MWH		CENTS/KWH		TOTAL \$ FOR FUEL ADJUSTMENT	TOTAL COST	GAINS ON MARKET BASED SALES	
				WHEELED FROM OTHER SYSTEMS	MWH FROM OWN GENERATION	(A) FUEL COST	(B) TOTAL COST				
<b>ESTIMATED</b>											
Jul-19	SEMINOLE	JURISD.	SCH. - D	580.0	0.0	580.0	2.634	2.779	15,280.00	16,117.64	837.64
	VARIOUS	JURISD.	SCH. - MA	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
	<b>TOTAL</b>			<b>580.0</b>	<b>0.0</b>	<b>580.0</b>	<b>2.634</b>	<b>2.779</b>	<b>15,280.00</b>	<b>16,117.64</b>	<b>837.64</b>
<b>ESTIMATED</b>											
Aug-19	SEMINOLE	JURISD.	SCH. - D	570.0	0.0	570.0	2.733	2.888	15,580.00	16,459.09	879.09
	VARIOUS	JURISD.	SCH. - MA	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
	<b>TOTAL</b>			<b>570.0</b>	<b>0.0</b>	<b>570.0</b>	<b>2.733</b>	<b>2.888</b>	<b>15,580.00</b>	<b>16,459.09</b>	<b>879.09</b>
<b>ESTIMATED</b>											
Sep-19	SEMINOLE	JURISD.	SCH. - D	580.0	0.0	580.0	2.848	3.011	16,520.00	17,463.03	943.03
	VARIOUS	JURISD.	SCH. - MA	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
	<b>TOTAL</b>			<b>580.0</b>	<b>0.0</b>	<b>580.0</b>	<b>2.848</b>	<b>3.011</b>	<b>16,520.00</b>	<b>17,463.03</b>	<b>943.03</b>
<b>ESTIMATED</b>											
Oct-19	SEMINOLE	JURISD.	SCH. - D	570.0	0.0	570.0	2.914	3.085	16,610.00	17,582.31	972.31
	VARIOUS	JURISD.	SCH. - MA	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
	<b>TOTAL</b>			<b>570.0</b>	<b>0.0</b>	<b>570.0</b>	<b>2.914</b>	<b>3.085</b>	<b>16,610.00</b>	<b>17,582.31</b>	<b>972.31</b>
<b>ESTIMATED</b>											
Nov-19	SEMINOLE	JURISD.	SCH. - D	570.0	0.0	570.0	2.988	3.162	17,030.00	18,023.68	993.68
	VARIOUS	JURISD.	SCH. - MA	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
	<b>TOTAL</b>			<b>570.0</b>	<b>0.0</b>	<b>570.0</b>	<b>2.988</b>	<b>3.162</b>	<b>17,030.00</b>	<b>18,023.68</b>	<b>993.68</b>
<b>ESTIMATED</b>											
Dec-19	SEMINOLE	JURISD.	SCH. - D	580.0	0.0	580.0	3.031	3.212	17,580.00	18,629.95	1,049.95
	VARIOUS	JURISD.	SCH. - MA	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
	<b>TOTAL</b>			<b>580.0</b>	<b>0.0</b>	<b>580.0</b>	<b>3.031</b>	<b>3.212</b>	<b>17,580.00</b>	<b>18,629.95</b>	<b>1,049.95</b>
<b>TOTAL</b>											
Jan-19	SEMINOLE	JURISD.	SCH. - D	19,978.2	1.2	19,977.0	2.169	2.365	433,364.00	472,516.10	23,450.42
THRU	VARIOUS	JURISD.	SCH. - MA	28,930.0	0.0	28,930.0	2.564	4.216	741,802.22	1,219,668.94	437,388.10
Dec-19	<b>TOTAL</b>			<b>48,908.2</b>	<b>1.2</b>	<b>48,907.0</b>	<b>2.403</b>	<b>3.460</b>	<b>1,175,166.22</b>	<b>1,692,185.04</b>	<b>460,838.52</b>

TAMPA ELECTRIC COMPANY  
 PURCHASED POWER  
 (EXCLUSIVE OF ECONOMY AND QUALIFYING FACILITIES)  
 ACTUAL/ESTIMATED FOR THE PERIOD: JANUARY 2019 THROUGH DECEMBER 2019

SCHEDULE E7

(1) MONTH	(2) PURCHASED FROM	(3) TYPE & SCHEDULE	(4) TOTAL MWH PURCHASED	(5) MWH FOR OTHER UTILITIES	(6) MWH FOR INTERRUPTIBLE	(7) MWH FOR FIRM	(8) CENTS/KWH		(9) TOTAL \$ FOR FUEL ADJUSTMENT
							(A) FUEL COST	(B) TOTAL COST	
							ACTUAL		
Jan-19	PASCO COGEN	SCH. - D	0.0	0.0	0.0	0.0	0.000	0.000	(2.31)
	VARIOUS	EMERG A	224.0	0.0	0.0	224.0	13.405	13.405	30,027.04
	VARIOUS	OATT	227.0	0.0	0.0	227.0	2.236	2.236	5,075.86
	<b>TOTAL</b>		<b>451.0</b>	<b>0.0</b>	<b>0.0</b>	<b>451.0</b>	<b>7.783</b>	<b>7.783</b>	<b>35,100.59</b>
ACTUAL									
Feb-19	PASCO COGEN	SCH. - D	0.0	0.0	0.0	0.0	0.000	0.000	103,802.04
	VARIOUS	EMERG A	0.0	0.0	0.0	0.0	0.000	0.000	0.00
	VARIOUS	OATT	489.0	0.0	0.0	489.0	2.048	2.048	10,014.10
	<b>TOTAL</b>		<b>489.0</b>	<b>0.0</b>	<b>0.0</b>	<b>489.0</b>	<b>23.275</b>	<b>23.275</b>	<b>113,816.14</b>
ACTUAL									
Mar-19	PASCO COGEN	SCH. - D	0.0	0.0	0.0	0.0	0.000	0.000	0.00
	VARIOUS	EMERG A	0.0	0.0	0.0	0.0	0.000	0.000	0.00
	VARIOUS	OATT	329.0	0.0	0.0	329.0	2.356	2.356	7,751.62
	<b>TOTAL</b>		<b>329.0</b>	<b>0.0</b>	<b>0.0</b>	<b>329.0</b>	<b>2.356</b>	<b>2.356</b>	<b>7,751.62</b>
ACTUAL									
Apr-19	PASCO COGEN	SCH. - D	0.0	0.0	0.0	0.0	0.000	0.000	0.00
	VARIOUS	EMERG A	0.0	0.0	0.0	0.0	0.000	0.000	0.00
	VARIOUS	OATT	627.0	0.0	0.0	627.0	3.104	3.104	19,463.32
	<b>TOTAL</b>		<b>627.0</b>	<b>0.0</b>	<b>0.0</b>	<b>627.0</b>	<b>3.104</b>	<b>3.104</b>	<b>19,463.32</b>
ACTUAL									
May-19	PASCO COGEN	SCH. - D	0.0	0.0	0.0	0.0	0.000	0.000	0.00
	VARIOUS	EMERG A	0.0	0.0	0.0	0.0	0.000	0.000	0.00
	VARIOUS	OATT	1,226.0	0.0	0.0	1,226.0	2.184	2.184	26,772.26
	<b>TOTAL</b>		<b>1,226.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1,226.0</b>	<b>2.184</b>	<b>2.184</b>	<b>26,772.26</b>
ACTUAL									
Jun-19	PASCO COGEN	SCH. - D	0.0	0.0	0.0	0.0	0.000	0.000	0.00
	VARIOUS	EMERG A	0.0	0.0	0.0	0.0	0.000	0.000	0.00
	VARIOUS	OATT	765.0	0.0	0.0	765.0	1.512	1.512	11,566.96
	<b>TOTAL</b>		<b>765.0</b>	<b>0.0</b>	<b>0.0</b>	<b>765.0</b>	<b>1.512</b>	<b>1.512</b>	<b>11,566.96</b>
ESTIMATED									
Jul-19	PASCO COGEN	SCH. - D	0.0	0.0	0.0	0.0	0.000	0.000	0.00
	VARIOUS	EMERG A	0.0	0.0	0.0	0.0	0.000	0.000	0.00
	VARIOUS	OATT	0.0	0.0	0.0	0.0	0.000	0.000	0.00
	<b>TOTAL</b>		<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.000</b>	<b>0.000</b>	<b>0.00</b>
ESTIMATED									
Aug-19	PASCO COGEN	SCH. - D	0.0	0.0	0.0	0.0	0.000	0.000	0.00
	VARIOUS	EMERG A	0.0	0.0	0.0	0.0	0.000	0.000	0.00
	VARIOUS	OATT	0.0	0.0	0.0	0.0	0.000	0.000	0.00
	<b>TOTAL</b>		<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.000</b>	<b>0.000</b>	<b>0.00</b>
ESTIMATED									
Sep-19	PASCO COGEN	SCH. - D	0.0	0.0	0.0	0.0	0.000	0.000	0.00
	VARIOUS	EMERG A	0.0	0.0	0.0	0.0	0.000	0.000	0.00
	VARIOUS	OATT	0.0	0.0	0.0	0.0	0.000	0.000	0.00
	<b>TOTAL</b>		<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.000</b>	<b>0.000</b>	<b>0.00</b>
ESTIMATED									
Oct-19	PASCO COGEN	SCH. - D	0.0	0.0	0.0	0.0	0.000	0.000	0.00
	VARIOUS	EMERG A	0.0	0.0	0.0	0.0	0.000	0.000	0.00
	VARIOUS	OATT	0.0	0.0	0.0	0.0	0.000	0.000	0.00
	<b>TOTAL</b>		<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.000</b>	<b>0.000</b>	<b>0.00</b>
ESTIMATED									
Nov-19	PASCO COGEN	SCH. - D	0.0	0.0	0.0	0.0	0.000	0.000	0.00
	VARIOUS	EMERG A	0.0	0.0	0.0	0.0	0.000	0.000	0.00
	VARIOUS	OATT	0.0	0.0	0.0	0.0	0.000	0.000	0.00
	<b>TOTAL</b>		<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.000</b>	<b>0.000</b>	<b>0.00</b>
ESTIMATED									
Dec-19	PASCO COGEN	SCH. - D	0.0	0.0	0.0	0.0	0.000	0.000	0.00
	VARIOUS	EMERG A	0.0	0.0	0.0	0.0	0.000	0.000	0.00
	VARIOUS	OATT	0.0	0.0	0.0	0.0	0.000	0.000	0.00
	<b>TOTAL</b>		<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.000</b>	<b>0.000</b>	<b>0.00</b>
<b>TOTAL</b>	PASCO COGEN	SCH. - D	0.0	0.0	0.0	0.0	0.000	0.000	103,799.73
Jan-19	VARIOUS	EMERG A	224.0	0.0	0.0	224.0	13.405	13.405	30,027.04
THRU	VARIOUS	OATT	3,663.0	0.0	0.0	3,663.0	2.202	2.202	80,644.12
Dec-19	<b>TOTAL</b>		<b>3,887.0</b>	<b>0.0</b>	<b>0.0</b>	<b>3,887.0</b>	<b>5.518</b>	<b>5.518</b>	<b>214,470.89</b>



TAMPA ELECTRIC COMPANY  
 ENERGY PAYMENT TO QUALIFYING FACILITIES  
 ACTUAL/ESTIMATED FOR THE PERIOD: JANUARY 2019 THROUGH DECEMBER 2019

SCHEDULE E8

(1) MONTH	(2) PURCHASED FROM	(3) TYPE & SCHEDULE	(4) TOTAL MWH PURCHASED	(5) MWH FOR OTHER UTILITIES	(6) MWH FOR INTERRUPTIBLE	(7) MWH FOR FIRM	(8) CENTS/KWH		(9) TOTAL \$ FOR FUEL ADJUSTMENT
							(A) FUEL COST	(B) TOTAL COST	
ACTUAL	VARIOUS	CO-GEN.							
Jan-19		NET METERING	2.3	0.0	0.0	2.3	2.331	2.331	53.61
		AS AVAIL.	23,727.0	0.0	0.0	23,727.0	2.618	2.618	621,105.41
	TOTAL		23,729.3	0.0	0.0	23,729.3	2.618	2.618	621,159.02
ACTUAL	VARIOUS	CO-GEN.							
Feb-19		NET METERING	1,506.9	0.0	0.0	1,506.9	2.529	2.529	38,113.28
		AS AVAIL.	12,803.0	0.0	0.0	12,803.0	2.419	2.419	309,675.82
	TOTAL		14,309.9	0.0	0.0	14,309.9	2.430	2.430	347,789.10
ACTUAL	VARIOUS	CO-GEN.							
Mar-19		NET METERING	3.7	0.0	0.0	3.7	2.496	2.496	92.35
		AS AVAIL.	11,829.0	0.0	0.0	11,829.0	2.244	2.244	265,433.72
	TOTAL		11,832.7	0.0	0.0	11,832.7	2.244	2.244	265,526.07
ACTUAL	VARIOUS	CO-GEN.							
Apr-19		NET METERING	102.5	0.0	0.0	102.5	2.531	2.531	2,593.77
		AS AVAIL.	18,573.0	0.0	0.0	18,573.0	2.008	2.008	372,962.50
	TOTAL		18,675.5	0.0	0.0	18,675.5	2.011	2.011	375,556.27
ACTUAL	VARIOUS	CO-GEN.							
May-19		NET METERING	1.2	0.0	0.0	1.2	2.545	2.545	30.54
		AS AVAIL.	18,177.0	0.0	0.0	18,177.0	2.094	2.094	380,715.18
	TOTAL		18,178.2	0.0	0.0	18,178.2	2.095	2.095	380,745.72
ACTUAL	VARIOUS	CO-GEN.							
Jun-19		NET METERING	6.9	0.0	0.0	6.9	2.522	2.522	174.01
		AS AVAIL.	14,569.0	0.0	0.0	14,569.0	1.939	1.939	282,438.42
	TOTAL		14,575.9	0.0	0.0	14,575.9	1.939	1.939	282,612.43
ESTIMATED	VARIOUS	CO-GEN.							
Jul-19		NET METERING	0.0	0.0	0.0	0.0	0.000	0.000	0.00
		AS AVAIL.	10,390.0	0.0	0.0	10,390.0	2.880	2.880	299,280.00
	TOTAL		10,390.0	0.0	0.0	10,390.0	2.880	2.880	299,280.00
ESTIMATED	VARIOUS	CO-GEN.							
Aug-19		NET METERING	0.0	0.0	0.0	0.0	0.000	0.000	0.00
		AS AVAIL.	10,390.0	0.0	0.0	10,390.0	2.862	2.862	297,310.00
	TOTAL		10,390.0	0.0	0.0	10,390.0	2.862	2.862	297,310.00
ESTIMATED	VARIOUS	CO-GEN.							
Sep-19		NET METERING	0.0	0.0	0.0	0.0	0.000	0.000	0.00
		AS AVAIL.	10,270.0	0.0	0.0	10,270.0	3.092	3.092	317,540.00
	TOTAL		10,270.0	0.0	0.0	10,270.0	3.092	3.092	317,540.00
ESTIMATED	VARIOUS	CO-GEN.							
Oct-19		NET METERING	0.0	0.0	0.0	0.0	0.000	0.000	0.00
		AS AVAIL.	10,460.0	0.0	0.0	10,460.0	2.865	2.865	299,630.00
	TOTAL		10,460.0	0.0	0.0	10,460.0	2.865	2.865	299,630.00
ESTIMATED	VARIOUS	CO-GEN.							
Nov-19		NET METERING	0.0	0.0	0.0	0.0	0.000	0.000	0.00
		AS AVAIL.	10,170.0	0.0	0.0	10,170.0	2.741	2.741	278,720.00
	TOTAL		10,170.0	0.0	0.0	10,170.0	2.741	2.741	278,720.00
ESTIMATED	VARIOUS	CO-GEN.							
Dec-19		NET METERING	0.0	0.0	0.0	0.0	0.000	0.000	0.00
		AS AVAIL.	10,450.0	0.0	0.0	10,450.0	2.956	2.956	308,860.00
	TOTAL		10,450.0	0.0	0.0	10,450.0	2.956	2.956	308,860.00
TOTAL	VARIOUS	CO-GEN.							
Jan-19		NET METERING	1,623.5	0.0	0.0	1,623.5	2.529	2.529	41,057.56
THRU		AS AVAIL.	161,808.0	0.0	0.0	161,808.0	2.493	2.493	4,033,671.05
Dec-19	TOTAL		163,431.5	0.0	0.0	163,431.5	2.493	2.493	4,074,728.61

TAMPA ELECTRIC COMPANY  
 ECONOMY ENERGY PURCHASES  
 ACTUAL/ESTIMATED FOR THE PERIOD: JANUARY 2019 THROUGH DECEMBER 2019

SCHEDULE E9

(1) MONTH	(2) PURCHASED FROM	(3) TYPE & SCHEDULE	(4) TOTAL MWH PURCHASED	(5) MWH FOR INTERRUPTIBLE	(6) MWH FOR FIRM	(7) TRANSACTION COST cents/KWH	(8) TOTAL \$ FOR FUEL ADJUSTMENT	(9) COST IF GENERATED		(10) FUEL SAVINGS (9B)-(8)
								(A) CENTS PER KWH	(B) (\$000)	
<b>ACTUAL</b>	VARIOUS	SCH. - J	11,444.0	143.8	11,300.2	5.599	632,705.00	7.214	815,251.00	182,546.00
<b>Jan-19</b>	<b>TOTAL</b>		<b>11,444.0</b>	<b>143.8</b>	<b>11,300.2</b>	<b>5.599</b>	<b>632,705.00</b>	<b>7.214</b>	<b>815,251.00</b>	<b>182,546.00</b>
<b>ACTUAL</b>	VARIOUS	SCH. - J	7,753.0	0.0	7,753.0	3.273	253,770.99	3.528	273,510.94	19,739.95
<b>Feb-19</b>	<b>TOTAL</b>		<b>7,753.0</b>	<b>0.0</b>	<b>7,753.0</b>	<b>3.273</b>	<b>253,770.99</b>	<b>3.528</b>	<b>273,510.94</b>	<b>19,739.95</b>
<b>ACTUAL</b>	VARIOUS	SCH. - J	42,507.0	0.0	42,507.0	4.094	1,740,312.00	5.925	2,518,476.85	778,164.85
<b>Mar-19</b>	<b>TOTAL</b>		<b>42,507.0</b>	<b>0.0</b>	<b>42,507.0</b>	<b>4.094</b>	<b>1,740,312.00</b>	<b>5.925</b>	<b>2,518,476.85</b>	<b>778,164.85</b>
<b>ACTUAL</b>	VARIOUS	SCH. - J	44,979.0	0.0	44,979.0	5.553	2,497,767.00	6.113	2,749,779.00	252,012.00
<b>Apr-19</b>	<b>TOTAL</b>		<b>44,979.0</b>	<b>0.0</b>	<b>44,979.0</b>	<b>5.553</b>	<b>2,497,767.00</b>	<b>6.113</b>	<b>2,749,779.00</b>	<b>252,012.00</b>
<b>ACTUAL</b>	VARIOUS	SCH. - J	43,345.0	0.0	43,345.0	3.621	1,569,479.17	4.728	2,049,209.77	479,730.60
<b>May-19</b>	<b>TOTAL</b>		<b>43,345.0</b>	<b>0.0</b>	<b>43,345.0</b>	<b>3.621</b>	<b>1,569,479.17</b>	<b>4.728</b>	<b>2,049,209.77</b>	<b>479,730.60</b>
<b>ACTUAL</b>	VARIOUS	SCH. - J	215,886.0	0.0	215,886.0	3.678	7,939,932.11	3.866	8,346,647.79	406,715.68
<b>Jun-19</b>	<b>TOTAL</b>		<b>215,886.0</b>	<b>0.0</b>	<b>215,886.0</b>	<b>3.678</b>	<b>7,939,932.11</b>	<b>3.866</b>	<b>8,346,647.79</b>	<b>406,715.68</b>
<b>ESTIMATED</b>	VARIOUS	ECONOMY	180,910.0	0.0	180,910.0	3.539	6,403,130.00	4.858	8,788,273.12	2,385,143.12
<b>Jul-19</b>	<b>TOTAL</b>		<b>180,910.0</b>	<b>0.0</b>	<b>180,910.0</b>	<b>3.539</b>	<b>6,403,130.00</b>	<b>4.858</b>	<b>8,788,273.12</b>	<b>2,385,143.12</b>
<b>ESTIMATED</b>	VARIOUS	ECONOMY	180,780.0	0.0	180,780.0	3.536	6,391,970.00	4.338	7,841,987.81	1,450,017.81
<b>Aug-19</b>	<b>TOTAL</b>		<b>180,780.0</b>	<b>0.0</b>	<b>180,780.0</b>	<b>3.536</b>	<b>6,391,970.00</b>	<b>4.338</b>	<b>7,841,987.81</b>	<b>1,450,017.81</b>
<b>ESTIMATED</b>	VARIOUS	ECONOMY	176,300.0	0.0	176,300.0	3.534	6,229,950.00	4.763	8,397,328.41	2,167,378.41
<b>Sep-19</b>	<b>TOTAL</b>		<b>176,300.0</b>	<b>0.0</b>	<b>176,300.0</b>	<b>3.534</b>	<b>6,229,950.00</b>	<b>4.763</b>	<b>8,397,328.41</b>	<b>2,167,378.41</b>
<b>ESTIMATED</b>	VARIOUS	ECONOMY	181,440.0	0.0	181,440.0	3.530	6,404,170.00	4.406	7,994,886.05	1,590,716.05
<b>Oct-19</b>	<b>TOTAL</b>		<b>181,440.0</b>	<b>0.0</b>	<b>181,440.0</b>	<b>3.530</b>	<b>6,404,170.00</b>	<b>4.406</b>	<b>7,994,886.05</b>	<b>1,590,716.05</b>
<b>ESTIMATED</b>	VARIOUS	ECONOMY	10,860.0	0.0	10,860.0	4.066	441,550.00	11.966	1,299,560.00	858,010.00
<b>Nov-19</b>	<b>TOTAL</b>		<b>10,860.0</b>	<b>0.0</b>	<b>10,860.0</b>	<b>4.066</b>	<b>441,550.00</b>	<b>11.966</b>	<b>1,299,560.00</b>	<b>858,010.00</b>
<b>ESTIMATED</b>	VARIOUS	ECONOMY	1,720.0	0.0	1,720.0	4.806	82,660.00	83.159	1,430,330.00	1,347,670.00
<b>Dec-19</b>	<b>TOTAL</b>		<b>1,720.0</b>	<b>0.0</b>	<b>1,720.0</b>	<b>4.806</b>	<b>82,660.00</b>	<b>83.159</b>	<b>1,430,330.00</b>	<b>1,347,670.00</b>
<b>TOTAL</b>										
<b>Jan-19</b>	VARIOUS	SCH. - J	365,914.0	143.8	365,770.2	4.001	14,633,966.27	4.580	16,752,875.35	2,118,909.08
<b>THRU</b>	VARIOUS	ECONOMY	732,010.0	0.0	732,010.0	3.546	25,953,430.00	4.884	35,752,365.39	9,798,935.39
<b>Dec-19</b>	<b>TOTAL</b>		<b>1,097,924.0</b>	<b>143.8</b>	<b>1,097,780.2</b>	<b>3.697</b>	<b>40,587,396.27</b>	<b>4.783</b>	<b>52,505,240.74</b>	<b>11,917,844.47</b>

**EXHIBIT TO THE TESTIMONY OF  
PENELOPE A. RUSK**

**DOCUMENT NO. 2  
CAPACITY COST RECOVERY  
ACTUAL / ESTIMATED  
JANUARY 2019 THROUGH DECEMBER 2019**

TAMPA ELECTRIC COMPANY  
CAPACITY COST RECOVERY  
CALCULATION OF THE CURRENT (ACTUAL/ESTIMATED) PERIOD TRUE-UP  
JANUARY 2019 THROUGH DECEMBER 2019

1. ACTUAL/ESTIMATED OVER/(UNDER) RECOVERY FOR THE CURRENT PERIOD JANUARY 2019 THROUGH DECEMBER 2019	1,422,896
2. FINAL OVER/(UNDER) RECOVERY FOR JANUARY 2018 THROUGH DECEMBER 2018 INCLUDED IN 2019	(5,458,886)
3. PROJECTED UNDER-RECOVERY TRUE-UP INCLUDED IN APRIL - DECEMBER 2019 FACTORS (Per Mid-Course Petition, Exhibit D, Page 5 of 6, Line 8a)	1,160,527
4. PROJECTED UNDER-RECOVERY TRUE-UP INCLUDED IN JANUARY - MARCH 2019 FACTORS (Per Mid-Course Petition, Exhibit D, Page 5 of 6, Line 8a)	<u>696,246</u>
5. MID-COURSE TRUE-UP OVER/(UNDER) RECOVERY FOR THE CURRENT PERIOD JANUARY 2019 THROUGH DECEMBER 2019 (SUM OF LINES 2 - 4)	(3,602,113)
6. CURRENT PERIOD TRUE-UP AMOUNT TO BE REFUNDED/(RECOVERED) IN THE PROJECTION PERIOD JANUARY 2020 THROUGH DECEMBER 2020 (LINE 1 + LINE 5)	<u><u>(2,179,217)</u></u>

**TAMPA ELECTRIC COMPANY  
CAPACITY COST RECOVERY CLAUSE  
CALCULATION OF ACTUAL/ESTIMATED TRUE-UP AMOUNT  
JANUARY 2019 THROUGH DECEMBER 2019**

	Actual Jan-19	Actual Feb-19	Actual Mar-19	Actual Apr-19	Actual May-19	Actual Jun-19	Estimated Jul-19	Estimated Aug-19	Estimated Sep-19	Estimated Oct-19	Estimated Nov-19	Estimated Dec-19	Total
1 UNIT POWER CAPACITY CHARGES	20,134	6,889	69,936	43,758	24,484	84,447	0	0	0	0	0	0	249,648
2 CAPACITY PAYMENTS TO COGENERATORS	0	0	0	0	0	0	0	0	0	0	0	0	0
3 (UNIT POWER CAPACITY REVENUES)	(75,831)	(86,888)	(75,240)	(78,649)	(130,227)	(118,353)	(94,198)	(94,198)	(94,198)	(94,198)	(94,198)	(94,198)	(1,130,376)
4 TOTAL CAPACITY DOLLARS	(55,697)	(79,999)	(5,304)	(34,891)	(105,743)	(33,906)	(94,198)	(94,198)	(94,198)	(94,198)	(94,198)	(94,198)	(880,728)
5 SEPARATION FACTOR	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	
6 JURISDICTIONAL CAPACITY DOLLARS	(55,697)	(79,999)	(5,304)	(34,891)	(105,743)	(33,906)	(94,198)	(94,198)	(94,198)	(94,198)	(94,198)	(94,198)	(880,728)
7 CAPACITY COST RECOVERY REVENUES (Net of Revenue Taxes)	1,240,565	1,244,911	1,212,875	(85,626)	(102,382)	(164,985)	(160,691)	(160,457)	(166,966)	(152,146)	(127,384)	(121,629)	2,456,085
8 PRIOR PERIOD TRUE-UP PROVISION	(232,082)	(232,082)	(232,082)	(128,947)	(128,947)	(128,947)	(128,947)	(128,947)	(128,947)	(128,947)	(128,947)	(128,951)	(1,856,773)
9 CAPACITY COST RECOVERY REVENUES APPLICABLE TO CURRENT PERIOD (Net of Revenue Taxes)	1,008,483	1,012,829	980,793	(214,573)	(231,329)	(293,932)	(289,638)	(289,404)	(295,913)	(281,093)	(256,331)	(250,580)	599,312
10 TRUE-UP PROVISION FOR MONTH OVER/(UNDER) RECOVERY (Line 9 - Line 6)	1,064,180	1,092,828	986,097	(179,682)	(125,586)	(260,026)	(195,440)	(195,206)	(201,715)	(186,895)	(162,133)	(156,382)	1,480,040
11 INTEREST PROVISION FOR MONTH	(9,670)	(7,055)	(4,581)	(3,416)	(3,404)	(3,451)	(3,931)	(4,427)	(4,355)	(4,237)	(4,338)	(4,279)	(57,144)
12 ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0
13 TRUE-UP AND INT. PROVISION BEGINNING OF MONTH - OVER/(UNDER) RECOVERY	(5,458,886)	(4,172,294)	(2,854,439)	(1,640,841)	(1,694,992)	(1,695,035)	(1,829,565)	(1,899,989)	(1,970,675)	(2,047,798)	(2,109,983)	(2,147,507)	(5,458,886)
14 PRIOR PERIOD TRUE-UP PROVISION COLLECTED/(REFUNDED) THIS MONTH	232,082	232,082	232,082	128,947	128,947	128,947	128,947	128,947	128,947	128,947	128,947	128,951	1,856,773
15 END OF PERIOD TRUE-UP - OVER/(UNDER) RECOVERY ( SUM OF LINES 10 - 14)	(4,172,294)	(2,854,439)	(1,640,841)	(1,694,992)	(1,695,035)	(1,829,565)	(1,899,989)	(1,970,675)	(2,047,798)	(2,109,983)	(2,147,507)	(2,179,217)	(2,179,217)

**TAMPA ELECTRIC COMPANY  
CAPACITY COST RECOVERY CLAUSE  
CALCULATION OF ACTUAL/ESTIMATED TRUE-UP AMOUNT  
JANUARY 2019 THROUGH DECEMBER 2019**

	Actual Jan-19	Actual Feb-19	Actual Mar-19	Actual Apr-19	Actual May-19	Actual Jun-19	Estimated Jul-19	Estimated Aug-19	Estimated Sep-19	Estimated Oct-19	Estimated Nov-19	Estimated Dec-19	Total
1 BEGINNING TRUE-UP AMOUNT	(5,458,886)	(4,172,294)	(2,854,439)	(1,640,841)	(1,694,992)	(1,695,035)	(1,829,565)	(1,899,989)	(1,970,675)	(2,047,798)	(2,109,983)	(2,147,507)	(5,458,886)
2 ENDING TRUE-UP AMOUNT BEFORE INTEREST	(4,162,624)	(2,847,384)	(1,636,260)	(1,691,576)	(1,691,631)	(1,826,114)	(1,896,058)	(1,966,248)	(2,043,443)	(2,105,746)	(2,143,169)	(2,174,938)	(2,122,073)
3 TOTAL BEGINNING & ENDING TRUE-UP AMT. ( LINE 1 + LINE 2 )	(9,621,510)	(7,019,678)	(4,490,699)	(3,332,417)	(3,386,623)	(3,521,149)	(3,725,623)	(3,866,237)	(4,014,118)	(4,153,544)	(4,253,152)	(4,322,445)	(7,580,959)
4 AVERAGE TRUE-UP AMOUNT ( 50% OF LINE 3 )	(4,810,755)	(3,509,839)	(2,245,350)	(1,666,209)	(1,693,312)	(1,760,575)	(1,862,812)	(1,933,119)	(2,007,059)	(2,076,772)	(2,126,576)	(2,161,223)	(3,790,480)
5 INTEREST RATE % - 1ST DAY OF MONTH	2.420	2.410	2.410	2.480	2.430	2.390	2.320	2.750	2.750	2.450	2.450	2.450	NA
6 INTEREST RATE % - 1ST DAY OF NEXT MONTH	2.410	2.410	2.480	2.430	2.390	2.320	2.750	2.750	2.450	2.450	2.450	2.300	NA
7 TOTAL ( LINE 5 + LINE 6 )	4.830	4.820	4.890	4.910	4.820	4.710	5.070	5.500	5.200	4.900	4.900	4.750	NA
8 AVERAGE INTEREST RATE % ( 50% OF LINE 7 )	2.415	2.410	2.445	2.455	2.410	2.355	2.535	2.750	2.600	2.450	2.450	2.375	NA
9 MONTHLY AVERAGE INTEREST RATE % ( LINE 8/12 )	0.201	0.201	0.204	0.205	0.201	0.196	0.211	0.229	0.217	0.204	0.204	0.198	NA
10 INTEREST PROVISION ( LINE 4 X LINE 9 )	(9,670)	(7,055)	(4,581)	(3,416)	(3,404)	(3,451)	(3,931)	(4,427)	(4,355)	(4,237)	(4,338)	(4,279)	(57,144)

TAMPA ELECTRIC COMPANY  
CAPACITY COSTS  
ACTUAL/ESTIMATED FOR THE PERIOD: JANUARY 2019 THROUGH DECEMBER 2019

CONTRACT	TERM		CONTRACT TYPE	
	START	END		
SEMINOLE ELECTRIC **	6/1/1992		-----	LT

QF = QUALIFYING FACILITY  
 LT = LONG TERM  
 ST = SHORT-TERM  
 \*\* THREE YEAR NOTICE REQUIRED FOR TERMINATION.

CONTRACT	ACT	ACT	ACT	ACT	ACT	ACT	EST	EST	EST	EST	EST	EST
	JANUARY MW	FEBRUARY MW	MARCH MW	APRIL MW	MAY MW	JUNE MW	JULY MW	AUGUST MW	SEPTEMBER MW	OCTOBER MW	NOVEMBER MW	DECEMBER MW
SEMINOLE ELECTRIC	8.1	10.8	9.1	9.3	11.5	18.4	2.0	2.0	2.0	2.0	2.0	2.0

CAPACITY	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)
FLORIDA POWER & LIGHT													
DUKE ENERGY FLORIDA													
JACKSONVILLE ELECTRIC AUTHORITY													
<b>SUBTOTAL CAPACITY PURCHASES</b>													
SEMINOLE ELECTRIC - D													
VARIOUS - MA													
DUKE ENERGY FLORIDA - MA													
FLORIDA POWER & LIGHT - MA													
CITY OF LAKELAND - MA													
ORLANDO UTILITIES - MA													
EXGEN - MA													
REEDY CREEK - MA													
THE ENERGY AUTHORITY - MA													
MACQUARIE ENERGY LLC - MA													
MORGAN STANLEY - MA													
FMPA - MA													
NEW SMYRNA BEACH - MA													
<b>SUBTOTAL CAPACITY SALES</b>													



<b>TOTAL PURCHASES AND (SALES)</b>	\$ (55,697)	\$ (79,999)	\$ (5,304)	\$ (34,891)	\$ (105,743)	\$ (33,906)	\$ (94,198)	\$ (94,198)	\$ (94,198)	\$ (94,198)	\$ (94,198)	\$ (94,198)	\$ (880,728)
<b>TOTAL CAPACITY</b>	\$ (55,697)	\$ (79,999)	\$ (5,304)	\$ (34,891)	\$ (105,743)	\$ (33,906)	\$ (94,198)	\$ (94,198)	\$ (94,198)	\$ (94,198)	\$ (94,198)	\$ (94,198)	\$ (880,728)

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**EXHIBIT TO THE TESTIMONY OF  
PENELOPE A. RUSK**

**DOCUMENT NO. 3**

**CAPITAL PROJECTS APPROVED FOR  
FUEL CLAUSE RECOVERY**

**JANUARY 2019 - DECEMBER 2019**



**BIG BEND UNITS 1-4 IGNITERS CONVERSION TO NATURAL GAS  
SCHEDULE OF DEPRECIATION AND RETURN  
FOR THE PERIOD JANUARY 2019 THROUGH DECEMBER 2019**

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
1 BEGINNING BALANCE	\$20,910,348	\$20,910,348	\$20,910,348	\$20,910,348	\$20,910,348	\$20,910,348	\$20,910,348	\$20,910,348	\$20,910,348	\$20,910,348	\$20,910,348	\$20,910,348	\$20,910,348
2 ADD INVESTMENT: Big Bend Unit 3 (Jan 2015)	-	-	-	-	-	-	-	-	-	-	-	-	-
2a ADD INVESTMENT: Big Bend Unit 4 (May 2015)	-	-	-	-	-	-	-	-	-	-	-	-	-
2b ADD INVESTMENT: Big Bend Unit 2 (June 2015)	-	-	-	-	-	-	-	-	-	-	-	-	-
2c ADD INVESTMENT: Big Bend Unit 1 (November 2015)	-	-	-	-	-	-	-	-	-	-	-	-	-
3 LESS RETIREMENTS	-	-	-	-	-	-	-	-	-	-	-	-	-
4 ENDING BALANCE	\$20,910,348	\$20,910,348	\$20,910,348	\$20,910,348	\$20,910,348	\$20,910,348	\$20,910,348	\$20,910,348	\$20,910,348	\$20,910,348	\$20,910,348	\$20,910,348	\$20,910,348
5													
6													
7 AVERAGE BALANCE	\$20,910,348	\$20,910,348	\$20,910,348	\$20,910,348	\$20,910,348	\$20,910,348	\$20,910,348	\$20,910,348	\$20,910,348	\$20,910,348	\$20,910,348	\$20,910,348	\$20,910,348
8 DEPRECIATION RATE	1.666667%	1.666667%	1.666667%	1.666667%	1.666667%	1.666667%	1.666667%	1.666667%	1.666667%	1.666667%	1.666667%	1.666667%	1.666667%
9 DEPRECIATION EXPENSE	\$348,506	\$348,506	\$348,506	\$348,506	\$348,506	\$348,506	\$348,506	\$348,506	\$348,506	\$348,506	\$348,506	\$348,506	\$4,182,070
10 LESS RETIREMENTS	-	-	-	-	-	-	-	-	-	-	-	-	-
11 BEGINNING BALANCE DEPRECIATION	\$15,095,780	\$15,444,286	\$15,792,792	\$16,141,297	\$16,489,803	\$16,838,309	\$17,186,815	\$17,535,321	\$17,883,826	\$18,232,332	\$18,580,838	\$18,929,344	\$15,095,780
12 ENDING BALANCE DEPRECIATION	\$15,444,286	\$15,792,792	\$16,141,297	\$16,489,803	\$16,838,309	\$17,186,815	\$17,535,321	\$17,883,826	\$18,232,332	\$18,580,838	\$18,929,344	\$19,277,850	\$19,277,850
13													
14													
15 ENDING NET INVESTMENT	\$5,466,062	\$5,117,557	\$4,769,051	\$4,420,545	\$4,072,039	\$3,723,533	\$3,375,028	\$3,026,522	\$2,678,016	\$2,329,510	\$1,981,004	\$1,632,499	\$1,632,499
16													
17													
18 AVERAGE INVESTMENT	\$5,640,315	\$5,291,809	\$4,943,304	\$4,594,798	\$4,246,292	\$3,897,786	\$3,549,280	\$3,200,775	\$2,852,269	\$2,503,763	\$2,155,257	\$1,806,751	\$1,806,751
19 ALLOWED EQUITY RETURN	.36019%	.36019%	.36019%	.36019%	.36019%	.36019%	.36019%	.37413%	.37413%	.37413%	.37413%	.37413%	.37413%
20 EQUITY COMPONENT AFTER-TAX	\$20,316	\$19,061	\$17,805	\$16,550	\$15,295	\$14,040	\$13,279	\$11,975	\$10,671	\$9,367	\$8,064	\$6,760	\$163,183
21 CONVERSION TO PRE-TAX	1.34295	1.34295	1.34295	1.34295	1.34295	1.34295	1.34295	1.34295	1.34295	1.34295	1.34295	1.34295	1.34295
22 EQUITY COMPONENT PRE-TAX	\$27,283	\$25,598	\$23,911	\$22,226	\$20,540	\$18,855	\$17,833	\$16,082	\$14,331	\$12,579	\$10,830	\$9,078	\$219,146
23													
24 ALLOWED DEBT RETURN	.14287%	.14287%	.14287%	.14287%	.14287%	.14287%	.14474%	.14474%	.14474%	.14474%	.14474%	.14474%	.14474%
25 DEBT COMPONENT	\$8,058	\$7,560	\$7,062	\$6,564	\$6,067	\$5,569	\$5,137	\$4,633	\$4,128	\$3,624	\$3,120	\$2,615	\$64,137
26 TAX REFORM TRUEUP													
27 TOTAL RETURN REQUIREMENTS	\$35,341	\$33,158	\$30,973	\$28,790	\$26,607	\$24,424	\$22,970	\$20,715	\$18,459	\$16,203	\$13,950	\$11,693	\$283,283
28 PRIOR MONTH TRUE-UP													
29 TOTAL DEPRECIATION & RETURN	\$383,847	\$381,664	\$379,479	\$377,296	\$375,113	\$372,930	\$371,476	\$369,221	\$366,965	\$364,709	\$362,456	\$360,199	\$4,465,355
30													
31 ESTIMATED FUEL SAVINGS	\$556,528	\$515,586	\$413,422	\$695,832	\$685,374	\$495,625	\$369,736	\$830,879	\$369,868	\$552,355	\$459,933	\$365,559	\$6,310,698
32 TOTAL DEPRECIATION & RETURN	\$383,847	\$381,664	\$379,479	\$377,296	\$375,113	\$372,930	\$371,476	\$369,221	\$366,965	\$364,709	\$362,456	\$360,199	\$4,465,355
33 NET BENEFIT (COST) TO RATEPAYER	\$172,681	\$133,923	\$33,943	\$318,536	\$310,261	\$122,695	(\$1,740)	\$461,658	\$2,904	\$187,647	\$97,477	\$5,360	\$1,845,344

34 DEPRECIATION EXPENSE IS CALCULATED BASED UPON A FIVE YEAR PERIOD.  
35 RETURN ON AVERAGE INVESTMENT IS CALCULATED FOR JANUARY - JUNE USING AN ANNUAL RATE OF 7.5190% (EQUITY 5.8046% , DEBT 1.7144%) RATES ARE BASED ON THE MAY 2018 SURVEILLANCE REPORT PER THE WACC STIPULATION & SETTLEMENT AGREEMENT (JULY 17, 2012).  
36 RETURN ON AVERAGE INVESTMENT IS CALCULATED FOR JULY - DECEMBER USING AN ANNUAL RATE OF 7.7662% (EQUITY 6.0293% , DEBT 1.7369%) RATES ARE BASED ON THE MAY 2019 SURVEILLANCE REPORT PER THE WACC STIPULATION & SETTLEMENT AGREEMENT (JULY 17, 2012).  
37 RETURN REQUIREMENT IS CALCULATED BASED UPON A COMBINED STATUTORY RATE OF 25.345%  
38 ZERO PROJECTED GENERATION RESULTS IN ZERO ESTIMATED FUEL SAVINGS FOR THAT MONTH.

**Tampa Electric Company**  
**Calculation of Revenue Requirement Rate of Return**  
**For Cost Recovery Clauses**  
**January 2019 to June 2019**

	(1) Jurisdictional Rate Base Actual May 2018 Capital Structure (\$000)	(2) Ratio %	(3) Cost Rate %	(4) Weighted Cost Rate %
Long Term Debt	\$ 1,719,219	30.51%	5.13%	1.5652%
Short Term Debt	244,333	4.34%	2.18%	0.0945%
Preferred Stock	0	0.00%	0.00%	0.0000%
Customer Deposits	96,005	1.70%	2.43%	0.0414%
Common Equity	2,367,502	42.02%	10.25%	4.3067%
Accum. Deferred Inc. Taxes & Zero Cost ITC's	1,187,473	21.07%	0.00%	0.0000%
Deferred ITC - Weighted Cost	<u>20,116</u>	<u>0.36%</u>	8.10%	<u>0.0289%</u>
Total	<u>\$ 5,634,648</u>	<u>100.00%</u>		<u>6.04%</u>

**ITC split between Debt and Equity:**

Long Term Debt	\$ 1,719,219	Long Term Debt	46.00%
Equity - Preferred	0	Equity - Preferred	0.00%
Equity - Common	<u>2,367,502</u>	Equity - Common	<u>54.00%</u>
Total	<u>\$ 4,086,721</u>	Total	<u>100.00%</u>

**Deferred ITC - Weighted Cost:**

Debt = 0.0289% * 46.00%	0.0133%
Equity = 0.0289% * 54.00%	<u>0.0156%</u>
Weighted Cost	<u>0.0289%</u>

**Total Equity Cost Rate:**

Preferred Stock	0.0000%
Common Equity	4.3067%
Deferred ITC - Weighted Cost	<u>0.0156%</u>
	4.3223%
Times Tax Multiplier	1.34295
Total Equity Component	<u>5.8046%</u>

**Total Debt Cost Rate:**

Long Term Debt	1.5652%
Short Term Debt	0.0945%
Customer Deposits	0.0414%
Deferred ITC - Weighted Cost	<u>0.0133%</u>
Total Debt Component	<u>1.7144%</u>

7.5190%

**Notes:**

Column (1) - Per WACC Stipulation & Settlement Agreement Dated July 17, 2012 and 2017 Settlement Agreement Dated September 27, 2017.  
 Column (2) - Column (1) / Total Column (1)  
 Column (3) - Per WACC Stipulation & Settlement Agreement Dated July 17, 2012 and 2017 Settlement Agreement Dated September 27, 2017.  
 Column (4) - Column (2) x Column (3)

**Tampa Electric Company**  
**Calculation of Revenue Requirement Rate of Return**  
**For Cost Recovery Clauses**  
**July 2019 to December 2019**

	(1) Jurisdictional Rate Base Actual May 2019 Capital Structure (\$000)	(2) Ratio %	(3) Cost Rate %	(4) Weighted Cost Rate %
Long Term Debt	\$ 1,897,597	31.57%	4.89%	1.5435%
Short Term Debt	211,895	3.52%	2.97%	0.1047%
Preferred Stock	0	0.00%	0.00%	0.0000%
Customer Deposits	94,966	1.58%	2.38%	0.0376%
Common Equity	2,598,065	43.22%	10.25%	4.4297%
Accum. Deferred Inc. Taxes & Zero Cost ITC's	1,125,550	18.72%	0.00%	0.0000%
Deferred ITC - Weighted Cost	<u>83,633</u>	<u>1.39%</u>	7.98%	<u>0.1110%</u>
Total	<u>\$ 6,011,707</u>	<u>100.00%</u>		<u>6.23%</u>

**ITC split between Debt and Equity:**

Long Term Debt	\$ 1,897,597	Long Term Debt	46.00%
Equity - Preferred	0	Equity - Preferred	0.00%
Equity - Common	<u>2,598,065</u>	Equity - Common	<u>54.00%</u>
Total	<u>\$ 4,495,662</u>	Total	<u>100.00%</u>

**Deferred ITC - Weighted Cost:**

Debt = 0.1110% * 46.00%	0.0511%
Equity = 0.1110% * 54.00%	<u>0.0599%</u>
Weighted Cost	<u>0.1110%</u>

**Total Equity Cost Rate:**

Preferred Stock	0.0000%
Common Equity	4.4297%
Deferred ITC - Weighted Cost	<u>0.0599%</u>
	4.4896%
Times Tax Multiplier	1.34295
Total Equity Component	<u>6.0293%</u>

**Total Debt Cost Rate:**

Long Term Debt	1.5435%
Short Term Debt	0.1047%
Customer Deposits	0.0376%
Deferred ITC - Weighted Cost	<u>0.0511%</u>
Total Debt Component	<u>1.7369%</u>
	<u>7.7662%</u>

**Notes:**

Column (1) - Per WACC Stipulation & Settlement Agreement Dated July 17, 2012, and 2017 Base Rates Settlement Agreement Dated September 27, 2017  
 Column (2) - Column (1) / Total Column (1)  
 Column (3) - Per WACC Stipulation & Settlement Agreement Dated July 17, 2012, and 2017 Base Rates Settlement Agreement Dated September 27, 2017  
 Column (4) - Column (2) x Column (3)