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March 2, 2020

VIA: ELECTRONIC FILING

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

Re: Fuel and Purchased Power Cost Recovery Clause with Generating Performance Incentive Factor; FPSC Docket No. 20200001-EI

Dear Mr. Teitzman:

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

- Tampa Electric Company's Petition for Approval of Fuel Cost Recovery and Capacity Cost Recovery Net True-Ups for the Twelve Month Period Ending December 2019.
- 2. Tampa Electric Company's Prepared Direct Testimony and Exhibit (PAR-1) of Penelope A. Rusk regarding Fuel and Purchased Power Cost Recovery and Capacity Cost Recovery Final True-Up for the period January 2019 through December 2019.
- 3. Tampa Electric Company's Prepared Direct Testimony and Exhibit (JCH-1) of John C. Heisey regarding the 2019 results of Tampa Electric's activities under the company's Commission approved Asset Optimization Mechanism.

Thank you for your assistance in connection with this matter.

Sincerely,

James D. Beasley

JDB/bmp Attachments

cc: All Parties of Record (w/attachments)

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Fuel and Purchased Power)	
Cost Recovery Clause and Generating)	DOCKET NO. 20200001-EI
Performance Incentive Factor.)	FILED: March 2, 2020
)	

TAMPA ELECTRIC COMPANY'S PETITION FOR APPROVAL OF FUEL AND CAPACITY COST RECOVERY NET TRUE-UPS AND OPTIMIZATION MECHANISM RESULTS FOR THE TWELVE-MONTH PERIOD ENDING DECEMBER 2019

Tampa Electric Company ("Tampa Electric" or "the company") hereby petitions this Commission for approval of the company's net fuel and purchased power cost recovery true-up amount of \$35,821,098 over-recovery, net capacity cost recovery true-up amount of \$111,228 over-recovery, and Tampa Electric's Optimization Mechanism incentive in the amount of \$1,180,820, for the twelve-month period ending December 2019. In support of this Petition, Tampa Electric states as follows:

- 1. The \$35,821,098 net fuel and purchased power true-up over-recovery for the period January 2019 through December 2019 was calculated in accordance with the methodology set forth in Schedule 1, page 2 of 2, attached to Order No. 10093, dated June 19, 1981. This calculation and the supporting documentation are contained in the prepared testimony and exhibit of Tampa Electric witness Penelope A. Rusk, which are being filed together with this Petition and are incorporated herein by reference.
- 2. By Order No. PSC-2019-0484-FOF-EI, the Commission approved fuel factors for the period commencing January 2020. These factors reflected an actual/estimated true-up under-recovery, including interest, for the period January 2019 through December 2019 of \$30,742,026 which was also approved in Order No. PSC-2019-0484-FOF-EI. The actual over-recovery,

including interest, for the period January 2019 through December 2019 is \$5,079,072. The \$5,079,072 actual over-recovery, plus the estimated under-recovery of \$30,742,026 which is currently reflected in charges for the period beginning January 2020, results in a net fuel true-up over-recovery of \$35,821,098 that is to be included in the calculation of the fuel factors for the period beginning January 2021.

- 3. The \$111,228 net capacity true-up over-recovery amount for the period January 2019 through December 2019 was calculated in accordance with the methodology set forth in Order No. 25773, dated February 24, 1992. This calculation and the supporting documentation are contained in the prepared direct testimony and exhibit of Tampa Electric witness Penelope A. Rusk.
- 4. By Order No. PSC-2017-0456-S-EI, issued November 27, 2017, in Docket Nos. 20170210-EI and 20160160-EI, the Commission approved the company's Optimization Mechanism for a four year term beginning January 1, 2018 with the following sharing thresholds: (a) up to \$4.5 million per year, 100% of the gain is allocated to customers; (b) greater than \$4.5 million per year and less than \$8 million per year, 60% is allocated to shareholders and 40% is allocated to customers; and (c) greater than \$8.0 million per year, 50% allocated to shareholders and 50% allocated to customers. The calculation and supporting documentation for the Optimization Mechanism results are contained in the prepared testimony and exhibit of Tampa Electric witness John C. Heisey, which are being filed together with this Petition and are incorporated herein by reference. Tampa Electric's share of the incremental gains is \$1,180,820, which is to be included in the calculation of the Fuel Cost Recovery Factors for the period beginning January 2021.

WHEREFORE, Tampa Electric Company respectfully requests the Commission to approve the company's net fuel true-up amount of \$35,821,098 over-recovery and Optimization Mechanism incentive sharing amount of \$1,180,820 and authorize the inclusion of these amounts in the calculation of the fuel factors for the period beginning January 2021; and to approve Tampa Electric's net capacity true-up amount of \$111,228 over-recovery and authorize the inclusion of this amount in the calculation of the capacity factors for the period beginning January 2021.

DATED this 2 day of March 2020.

Respectfully submitted,

JAMES D. BEASLEY

J. JEFFRY WAHLEN MALCOLM N. MEANS

Ausley McMullen

Post Office Box 391

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(850) 224-9115

ATTORNEYS FOR TAMPA ELECTRIC COMPANY

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of the foregoing Petition for Approval of Fuel and Capacity Cost Recovery Net True-Ups and Optimization Mechanism Results for the Twelve-Month Period Ending December 2019 has been furnished by electronic mail on this 2nd day of March 2020 to the following:

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ATTORNEY



BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 20200001-EI

FUEL & PURCHASED POWER COST RECOVERY

AND

CAPACITY COST RECOVERY

2019 FINAL TRUE-UP
TESTIMONY AND EXHIBITS

PENELOPE A. RUSK

FILED: MARCH 2, 2020

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION 1 PREPARED DIRECT TESTIMONY 2 3 OF PENELOPE A. RUSK 4 5 Please state your name, address, occupation and employer. 6 0. 7 My name is Penelope A. Rusk. My business address is 702 8 Α. North Franklin Street, Tampa, Florida 33602. I am employed 9 by Tampa Electric Company ("Tampa Electric" or "company") 10 in the position of Director, Regulatory Affairs in the 11 Regulatory Affairs Department. 12 13 Q. 14 Please provide a brief outline of your educational background and business experience. 15 16 I received a Bachelor of Arts degree in Economics from 17 the University of New Orleans in 1995, and I received a 18 Master of Arts degree in Economics from the University of 19 20 South Florida in Tampa in 1997. I joined Tampa Electric 1997, as an Economist in the Load Forecasting 21 Department. In 2000, I joined the Regulatory Affairs 22 23 Department, where I assumed positions of increasing

responsibility over time. My current position is Director

At Tampa Electric, I have

of Regulatory Affairs.

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accumulated over 20 years of electric utility experience in the areas of load forecasting; management of the fuel and purchased power, capacity, and environmental cost recovery clauses; rate setting and rate filings; and regulatory project management activities. I also oversee the coordination and filing of all Tampa Electric and Peoples Gas filings with federal and state regulatory agencies. I am a member of the Southeastern Electric Exchange Rates and Regulation Committee.

Q. What is the purpose of your testimony?

A. The purpose of my testimony is to present, for the Commission's review and approval, the final true-up amounts for the period January 2019 through December 2019 for the Fuel and Purchased Power Cost Recovery Clause ("Fuel Clause") and the Capacity Cost Recovery Clause ("Capacity Clause"), as well as the Optimization Mechanism gain sharing allocation for the period.

Q. What is the source of the data which you will present by way of testimony or exhibit in this process?

A. Unless otherwise indicated, the actual data is taken from the books and records of Tampa Electric. The books and

records are kept in the regular course of business in accordance with generally accepted accounting principles and practices and provisions of the Uniform System of Accounts as prescribed by the Florida Public Service Commission ("Commission").

Q. Have you prepared an exhibit in this proceeding?

A. Yes. Exhibit No. PAR-1, consisting of five documents which are described later in my testimony, was prepared under my direction and supervision.

Capacity Cost Recovery Clause

Q. What is the final true-up amount for the Capacity Clause for the period January 2019 through December 2019?

A. The final true-up amount for the Capacity Clause for the period January 2019 through December 2019 is an over-recovery of \$111,228.

21 Q. Please describe Document No. 1 of your exhibit.

A. Document No. 1, page 1 of 4, entitled "Tampa Electric Company Capacity Cost Recovery Clause Calculation of Final True-up Variances for the Period January 2019

Through December 2019", provides the calculation for the final over-recovery of \$111,228. The actual capacity cost under-recovery, including interest, was \$2,067,989 for the period January 2019 through December 2019 as identified in Document No. 1, pages 1 and 2 of 4. This amount, less the \$2,179,217 actual/estimated under-recovery approved in Order No. PSC-2019-0484-FOF-EI issued November 18, 2019 in Docket No. 20190001-EI, results in a final over-recovery of \$111,228 for the period, as identified in Document No. 1, page 4 of 4. This amount will be applied to the calculation of the capacity cost recovery factors for the period January 2021 through December 2021.

Q. What is the estimated effect of this \$111,228 over-recovery for the January 2019 through December 2019 period on residential bills during the January 2021 through December 2021 period?

A. The \$111,228 over-recovery will decrease a 1,000 kWh residential bill by approximately \$0.01.

Fuel and Purchased Power Cost Recovery Clause

Q. What is the final true-up amount for the Fuel Clause for the period January 2019 through December 2019?

A. The final Fuel Clause true-up for the period January 2019 through December 2019 is an over-recovery of \$35,821,098. The actual fuel cost over-recovery, including interest, was \$5,079,072 for the period January 2019 through December 2019. This \$5,079,072 amount, plus the \$30,742,026 projected under-recovery amount approved in Order No. PSC-2019-0484-FOF-EI, issued November 18, 2019 in Docket No. 20190001-EI, results in a net over-recovery amount for the period of \$35,821,098.

Q. What is the estimated effect of the \$35,821,098 overrecovery for the January 2019 through December 2019 period on residential bills during the January 2021 through

A. The \$35,821,098 over-recovery will decrease a 1,000 kWh residential bill by approximately \$1.84.

Q. Please describe Document No. 2 of your exhibit.

December 2021 period?

A. Document No. 2 is entitled "Tampa Electric Company Final Fuel and Purchased Power Over/(Under) Recovery for the Period January 2019 Through December 2019." It shows the calculation of the final fuel over-recovery of \$35,821,098.

Line 1 shows the total company fuel costs of \$574,069,880 for the period January 2019 through December 2019. jurisdictional amount of total fuel costs is \$574,069,880, as shown on line 2. This amount is compared to the jurisdictional fuel revenues applicable to the period on line 3 to obtain the actual over-recovered fuel costs for the period, shown on line 4. The resulting \$9,140,612 over-recovered fuel costs for the period, adjustments, interest, true-up collected, and the prior period true-up shown on lines 5 through 8 respectively, constitute the actual over-recovery amount of \$5,079,072 shown on line 9. The \$5,079,072 actual over-recovery amount plus the \$30,742,026 projected under-recovery amount shown on line 10, results in a final over-recovery amount of \$35,821,098 for the period January 2019 through December 2019, as shown on line 11.

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Q. Please describe Document No. 3 of your exhibit.

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A. Document No. 3 is entitled "Tampa Electric Company Calculation of True-up Amount Actual vs. Original Estimates for the Period January 2019 Through December 2019." It shows the calculation of the actual over-recovery compared to the estimated under-recovery for the same period.

Q. What was the total fuel and net power transaction cost variance for the period January 2019 through December 2019?

A. As shown on line A7 of Document No. 3, the fuel and net power transaction cost is \$39,316,715 less than the amount originally estimated.

Q. What was the variance in jurisdictional fuel revenues for the period January 2019 through December 2019?

A. As shown on line C3 of Document No. 3, the company collected \$9,052,449, or 1.6 percent greater jurisdictional fuel revenues than originally estimated.

16 Q. Please describe Document No. 4 of your exhibit.

A. Document No. 4 contains Commission Schedules A1 and A2 for the month of December and the year-end period-to-date summary of transactions for each of Commission Schedules A6, A7, A8, A9, as well as capacity information on Schedule A12.

Q. Please describe Document No. 5 of your exhibit.

A. Document No. 5 provides the capital costs and fuel savings for the Big Bend Units 1-4 ignition conversion projects for the period January 2019 through December 2019. This document also contains the capital structure components and cost rates relied upon to calculate the revenue requirements rate of return on capital projects recovered through the fuel clause.

The Big Bend Units 1-4 ignition conversion project capital costs, including depreciation and return, for the period are less than the fuel savings resulting from the project, and provide a net benefit to customers, as shown on Document No. 5, page 1, line 33. Therefore, the Big Bend Units 1-4 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. Have you incorporated the Florida Corporate Income Tax Reduction, effective January 1, 2019, into the company's calculated revenue requirement?

A. Yes. The change in the corporate income tax rate, announced in September 2019 and retroactive to January 1, 2019, resulted in an adjustment to the capital cost recovery for

the Big Bend Units 1-4 ignition conversion project. Document No. 5 of my exhibit shows the adjustment on Page 1, Line 26, and the original and post-state tax reform revenue requirement rate of return calculations are shown on Pages 2 through 5.

Optimization Mechanism

Q. Was Tampa Electric's sharing of Optimization Mechanism gains allocated in accordance with FPSC Order No. PSC-2017-0456-S-EI, issued in Docket Nos. 20170210-EI and 20160160-EI, on November 27, 2017?

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A. Yes. As shown in the testimony and exhibit of Tampa Electric witness John C. Heisey filed contemporaneously in this docket, the sharing of Optimization Mechanism gains was allocated in accordance with FPSC Order No. PSC-2017-0456-S-EI. Total gains were \$6,468,033. Under the sharing mechanism, Tampa Electric customers receive \$5,287,213, and the company earned an incentive of \$1,180,820 as a result of the company's Optimization Mechanism activities during 2019. Customers received the gains from these transactions during 2019, and Tampa Electric requests Commission approval to collect the company's \$1,180,820 incentive in its 2021 fuel factors.

DOCKET NO. 20200001-EI
2019 FINAL TRUE-UP FOR FUEL &
PURCHASED POWER AND CAPACITY
COST RECOVERY
EXHIBIT NO. _____ (PAR-1)

TAMPA ELECTRIC COMPANY

FUEL AND PURCHASED POWER COST RECOVERY AND

CAPACITY COST RECOVERY

DOCKET NO. 20200001-EI
2019 FINAL TRUE-UP FOR FUEL &
PURCHASED POWER AND CAPACITY
COST RECOVERY
EXHIBIT NO. _____ (PAR-1)

FUEL AND PURCHASED POWER COST RECOVERY

AND

CAPACITY COST RECOVERY

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DOCKET NO. 20200001-EI CCR 2019 FINAL TRUE-UP EXHIBIT NO.____ (PAR-1) DOCUMENT NO. 1

EXHIBIT TO THE TESTIMONY OF PENELOPE A. RUSK

DOCUMENT NO. 1

FINAL CAPACITY OVER/(UNDER)RECOVERY FOR

JANUARY 2019 - DECEMBER 2019

DOCKET NO. 20200001-EI CCR 2019 FINAL TRUE-UP EXHIBIT NO._____ (PAR-1) DOCUMENT NO. 1 PAGE 1 OF 4

TAMPA ELECTRIC COMPANY CAPACITY COST RECOVERY CLAUSE CALCULATION OF FINAL TRUE-UP VARIANCES FOR THE PERIOD JANUARY 2019 THROUGH DECEMBER 2019

1.	Actual End-of-Period True-up: Over/(Under) Recovery	(\$2,067,989)
2.	Less: Actual/Estimated Over/(Under) Recovery Per Order No. PSC-2019-0484-FOF-EI For the January 2019 Through December 2019 Period	(2,179,217)
3.	Final True-up: Over/(Under) Recovery to Be Carried Forward to the January 2021 Through December 2021 Period	\$111,228

DOCKET NO. 20200001-EI CCR 2019 FINAL TRUE-UP EXHIBIT NO._____ (PAR-1) DOCUMENT NO. 1 PAGE 2 OF 4

TAMPA ELECTRIC COMPANY CAPACITY COST RECOVERY CLAUSE CALCULATION OF FINAL TRUE-UP AMOUNT FOR THE PERIOD JANUARY 2019 THROUGH DECEMBER 2019

	1 1	Actual Jan-19	Actual Feb-19	Actual Mar-19	Actual Apr-19	Actual May-19	Actual Jun-19	Actual Jul-19	Actual Aug-19	Actual Sep-19	Actual Oct-19	Actual Nov-19	Actual Dec-19	Total
	1 UNIT POWER CAPACITY CHARGES	20,134	6,889	986'69	43,759	24,484	84,447	43,140	22,065	79,173	53,246	34,456	4,679	486,408
	2 CAPACITY PAYMENTS TO COGENERATORS	0	0	0	0	0	0	0	0	0	0	0	0	0
	3 SCHEDULE J,D, & EMERG CAPACITY CHARGES	0	0	0	0	0	0	0	0	0	0	0	0	0
	4 INCREMENTAL SECURITY O&M COSTS	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 (CAPACITY REVENUES)	(75,831)	(86,888)	(75,240)	(78,650)	(130,227)	(118,353)	(76,654)	(94,821)	(122,323)	(429,073)	(101,041)	(99,847)	(1,488,948)
	6 TOTAL CAPACITY DOLLARS	(55,697)	(79,999)	(5,304)	(34,891)	(105,743)	(33,906)	(33,514)	(72,756)	(43,150)	(375,827)	(66,585)	(95,168)	(1,002,540)
	7 JURISDICTIONAL PERCENTAGE	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	
	8 JURISDICTIONAL CAPACITY DOLLARS	(55,697)	(79,999)	(5,304)	(34,891)	(105,743)	(33,906)	(33,514)	(72,756)	(43,150)	(375,827)	(66,585)	(95,168)	(1,002,540)
	9 CAPACITY COST RECOVERY REVENUES (Net of Revenue Taxes)	1,240,565	1,244,911	1,212,875	(85,626)	(102,382)	(164,985)	(163,975)	(152,332)	(178,316)	(154,165)	(139,644)	(117,798)	2,439,128
, =	10 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)
1	11 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)	(292,922)	(281,279)	(307,263)	(283,112)	(268,591)	(246,749)	582,355
5	12 TRUE-UP PROVISION FOR PERIOD OVER/(UNDER) RECOVERY (Line 11 - Line 8)	1,064,180	1,092,828	986,097	(179,682)	(125,586)	(260,026)	(259,408)	(208,523)	(264,113)	92,715	(202,006)	(151,581)	1,584,895
•=	13 INTEREST PROVISION FOR PERIOD	(9,670)	(7,055)	(4,581)	(3,416)	(3,404)	(3,451)	(3,486)	(3,466)	(3,552)	(3,132)	(2,724)	(2,834)	(50,771)
•=	14 OTHER ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0
•	15 TRUE-UP AND INT. PROVISION BEGINNING OF PERIOD - OVER/(UNDER) RECOVERY	(5,458,886)	(4,172,294)	(2,854,439)	(1,640,841)	(1,694,992)	(1,695,035)	(1,829,565)	(1,963,512)	(2,046,554)	(2,185,272)	(1,966,742)	(2,042,525)	(5,458,886)
•	16 PRIOR PERIOD TRUE-UP PROVISION COLLECTED((REFUNDED) THIS PERIOD	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
•	17 END OF PERIOD TRUE-UP - OVER(UNDER) RECOVERY (SUM OF LINES 12 - 16)	(4,172,294)	(2,854,439)	(1,640,841)	(1,694,992)	(1,695,035)	(1,829,565)	(1,963,512)	(2,046,554)	(2,185,272)	(1,966,742)	(2,042,525)	(2,067,989)	(2,067,989)

DOCKET NO. 20200001-EI CCR 2019 FINAL TRUE-UP EXHIBIT NO._____ (PAR-1) DOCUMENT NO. 1 PAGE 3 OF 4

TAMPA ELECTRIC COMPANY
CAPACITY COST RECOVERY CLAUSE
CALCULATION OF FINAL TRUE-UP AMOUNT
FOR THE PERIOD JANUARY 2019 THROUGH DECEMBER 2019

	Actual Jan-19	Actual Feb-19	Actual Mar-19	Actual Apr-19	Actual May-19	Actual Jun-19	Actual Jul-19	Actual Aug-19	Actual Sep-19	Actual Oct-19	Actual Nov-19	Actual 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)	(1,963,512)	(2,046,554)	(2,185,272)	(1,966,742)	(2,042,525)	(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)	(1,960,026)	(2,043,088)	(2,181,720)	(1,963,610)	(2,039,801)	(2,065,155)	(2,017,218)
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)	(3,789,591)	(4,006,600)	(4,228,274)	(4,148,882)	(4,006,543)	(4,107,680)	(7,476,104)
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)	(1,894,796)	(2,003,300)	(2,114,137)	(2,074,441)	(2,003,272)	(2,053,840)	(3,738,052)
5 INTEREST RATE % - 1ST DAY OF MONTH	2.420	2.410	2.410	2.480	2.430	2.390	2.320	2.100	2.050	1.970	1.660	1.600	ΝΑ
6 INTEREST RATE % - 1ST DAY OF NEXT MONTH	2.410	2.410	2.480	2.430	2.390	2.320	2.100	2.050	1.970	1.660	1.600	1.710	Ϋ́Z
7 TOTAL (LINE 5 + LINE 6)	4.830	4.820	4.890	4.910	4.820	4.710	4.420	4.150	4.020	3.630	3.260	3.310	٩
8 AVERAGE INTEREST RATE % (50% OF LINE 7)	2.415	2.410	2.445	2.455	2.410	2.355	2.210	2.075	2.010	1.815	1.630	1.655	Ϋ́Z
9 MONTHLY AVERAGE INTEREST RATE %	0.201	0.201	0.204	0.205	0.201	0.196	0.184	0.173	0.168	0.151	0.136	0.138	NA
(LINE 8/12) 10 INTEREST PROVISION (LINE 4 X LINE 9)	(9,670)	(7,055)	(4,581)	(3,416)	(3,404)	(3,451)	(3,486)	(3,466)	(3,552)	(3,132)	(2,724)	(2,834)	(50,771)

DOCKET NO. 20200001-EI CCR 2019 FINAL TRUE-UP EXHIBIT NO._____ (PAR-1) DOCUMENT NO. 1 PAGE 4 OF 4

TAMPA ELECTRIC COMPANY CAPACITY COST RECOVERY CLAUSE CALCULATION OF FINAL TRUE-UP VARIANCES FOR THE PERIOD JANUARY 2019 THROUGH DECEMBER 2019

	(1)	(2)	(3)	(4)
	ACTUAL	ACTUAL/ ESTIMATED	VARIANCE (1) - (2)	% CHANGE (3)/(2)
1 UNIT POWER CAPACITY CHARGES	\$486,408	\$249,648	\$236,760	94.84%
2 CAPACITY PAYMENTS TO COGENERATORS	0	0	0	0.00%
3 SCHEDULE J & D CAPACITY CHARGES	0	0	0	0.00%
4 INCREMENTAL SECURITY O&M COSTS	0	0	0	0.00%
5 (CAPACITY REVENUES)	(1,488,948)	(1,130,376)	(358,572)	31.72%
6 TOTAL CAPACITY DOLLARS	(\$1,002,540)	(\$880,728)	(\$121,812)	13.83%
7 JURISDICTIONAL PERCENTAGE	100.00%	100.00%	0	0.00%
8 JURISDICTIONAL CAPACITY DOLLARS	(\$1,002,540)	(880,728)	(\$121,812)	13.83%
9 CAPACITY COST RECOVERY REVENUES (Net of Revenue Taxes)	2,439,128	2,456,085	(16,957)	-0.69%
10 PRIOR PERIOD TRUE-UP PROVISION	(1,856,773)	(1,856,773)	0	0.00%
11 CAPACITY COST RECOVERY REVENUES APPLICABLE TO CURRENT PERIOD (Net of Revenue Taxes)	\$582,355	\$599,312	(\$16,957)	-2.83%
12 TRUE-UP PROVISION FOR PERIOD OVER/(UNDER) RECOVERY (Line 11 - Line 8)	\$1,584,895	\$1,480,040	\$104,855	7.08%
13 INTEREST PROVISION FOR PERIOD	(50,771)	(57,144)	6,373	-11.15%
14 OTHER ADJUSTMENT	0	0	0	0.00%
15 TRUE-UP AND INT. PROVISION BEGINNING OF PERIOD - OVER/(UNDER) RECOVERY	(5,458,886)	(5,458,886)	0	0.00%
16 PRIOR PERIOD TRUE-UP PROVISION COLLECTED/(REFUNDED) THIS PERIOD	1,856,773	1,856,773	0	0.00%
17 END OF PERIOD TRUE-UP - OVER/(UNDER) RECOVERY (SUM OF LINES 12 - 16)	(\$2,067,989)	(\$2,179,217)	\$111,228	-5.10%

EXHIBIT TO THE TESTIMONY OF PENELOPE A. RUSK

DOCUMENT NO. 2

FINAL FUEL AND PURCHASED POWER OVER/(UNDER)RECOVERY
FOR

JANUARY 2019 - DECEMBER 2019

DOCKET NO. 20200001-EI FAC 2019 FINAL TRUE-UP EXHIBIT NO._____ (PAR-1) DOCUMENT NO. 2 PAGE 1 OF 1

TAMPA ELECTRIC COMPANY FINAL FUEL AND PURCHASED POWER OVER/(UNDER) RECOVERY FOR THE PERIOD JANUARY 2019 THROUGH DECEMBER 2019

1 TOTAL FUEL COSTS FOR THE PERIOD	\$ 574,069,880
2 JURISDICTIONAL FUEL COSTS (INCL. ALL ADJUSTMENTS)	574,069,880
3 JURISDICTIONAL FUEL REVENUES APPLICABLE TO THE PERIOD	 583,210,492
4 ACTUAL OVER/(UNDER) RECOVERED FUEL COSTS FOR THE PERIOD (LINE 3 - LINE 2)	\$ 9,140,612
5 ADJUSTMENTS	0
6 INTEREST	(882,221)
7 TRUE-UP COLLECTED	33,791,590
8 PRIOR PERIOD TRUE-UP (ACTUAL ENDING 12/18)	 (36,970,912)
9 ACTUAL OVER/(UNDER) RECOVERY FOR THE PERIOD (LINE 4 + LINE 5 + LINE 6 + LINE 7 + LINE 8)	\$ 5,079,072
10 PROJECTED OVER/(UNDER) RECOVERY PER PROJECTION FILED 9/3/19 (SCHEDULE E1-A LINE 6)	 (30,742,026)
11 FINAL FUEL OVER/(UNDER) RECOVERY (LINE 9 - LINE 10)	\$ 35,821,098

DOCKET NO. 20200001-EI FAC 2019 FINAL TRUE-UP EXHIBIT NO.____ (PAR-1) DOCUMENT NO. 3

EXHIBIT TO THE TESTIMONY OF PENELOPE A. RUSK

DOCUMENT NO. 3

ACTUAL FUEL AND PURCHASED POWER TRUE-UP

VS.

ORIGINAL ESTIMATES

JANUARY 2019 - DECEMBER 2019

DOCKET NO. 20200001-EI FAC 2019 FINAL TRUE-UP EXHIBIT NO._____ (PAR-1) DOCUMENT NO. 3 PAGE 1 OF 1

TAMPA ELECTRIC COMPANY CALCULATION OF TRUE-UP AMOUNT ACTUAL vs. ORIGINAL ESTIMATES FOR THE PERIOD JANUARY 2019 THROUGH DECEMBER 2019

		ACTUAL	per Mid-Course ESTIMATED	VARIANCE AMOUNT	%
Α	1. FUEL COST OF SYSTEM NET GENERATION	\$525,783,664	\$574,179,130	(\$48,395,466)	(8.4)
	2. FUEL COST OF POWER SOLD	3,427,702	724,525	2,703,177	373.1
	2a. GAINS FROM SALES	1,539,956	58,965	1,480,991	2,511.6
	3. FUEL COST OF PURCHASED POWER	347,608	0	347,608	0.0
	3a. DEMAND & NONFUEL COST OF PUR. PWR.	0	0	0	0.0
	3b. PAYMENT TO QUALIFIED FACILITIES	4,685,865	2,641,870	2,043,995	77.4
	4. ENERGY COST OF ECONOMY PURCHASES	43,757,439	32,887,040	10,870,399	33.1
	6a. ADJ BIG BEND UNITS 1-4 IGNITERS CONVERSION PROJECT	4,462,962	4,462,045	917	0.0
	6b. ADJ.	0	0	0	0.0
	6c. ADJ.	0	0	0	0.0
	7. ADJUSTED TOTAL FUEL & NET PWR.TRANS. (SUM OF LINES A1 THRU 6c)	\$574,069,880	\$613,386,595	(\$39,316,715)	(6.4)
С	1. JURISDICTIONAL FUEL REVENUE 2. FUEL ADJUSTMENT NOT APPLICABLE 2a. TRUE-UP PROVISION	\$614,741,063 0 (33,791,590)	\$605,688,614 0 (33,791,590)	\$9,052,449 0 0	1.5 0.0 0.0
	2b. INCENTIVE PROVISION	2,261,019	2,261,019	0	0.0
	2c. ADJUSTMENT	2,201,019	2,201,019	0	0.0
	3. JURIS. FUEL REVENUE APPL. TO PERIOD (Sum of Lines C1 through C2c)	\$583,210,492	\$574,158,043	\$9,052,449	1.6
	6d.JURISD. TOTAL FUEL & NET PWR. TRANS.	574,069,880	613,386,595	(39,316,715)	(6.4)
	7. TRUE-UP PROV THIS PER. (LINE C3-C6d) 7a. ADJUSTMENTS	\$9,140,612 0	(\$39,228,552) 0	\$48,369,164 0	(123.3) 0.0
	8. INTEREST PROVISION - THIS PERIOD	(882,221)	(653,962)	(228,259)	34.9
	TOTAL TRUE-UP AMOUNT FOR PERIOD (LINE 7 through 8)	\$8,258,391	(\$39,882,514)	\$48,140,905	(120.7)
	9.TRUE-UP & INT. PROV. BEG. OF PERIOD (Beginning January 2019)	(36,970,912)	7,015,485	(43,986,397)	(627.0)
	10.TRUE-UP COLLECTED (REFUNDED)	33,791,590	33,791,590	0	0.0
	11.END OF PERIOD TOTAL NET TRUE-UP (LINE C8 through C10)	\$5,079,072	\$924,561	\$4,154,511	449.3

EXHIBIT TO THE TESTIMONY OF PENELOPE A. RUSK

DOCUMENT NO. 4

FUEL AND PURCHASED POWER COST RECOVERY YTD DECEMBER 2019

SCHEDULES A1 AND A2

AND

SCHEDULES A6 THROUGH A9

AND

SCHEDULE A12

FUEL AND PURCHASED POWER COST RECOVERY SCHEDULES A1 AND A2

DECEMBER 2019

COMPARISON OF ESTIMATED AND ACTUAL
FUEL AND PURCHASED POWERS COST RECOVERY FACTOR
TAMPA ELECTRIC COMPANY
MONTH OF: December 2019

	8		DIFFERENCE		MW		DIFFERENCE	NCE	CEN	İ	DIFFERENCE	J.
	ACTUAL	ESTIMATED	AMOUNT		ACTUAL	ESTIMATED	AMOUNT	%	ACTUAL ESTIMA	밀	AMOUNT	%
1. Fuel Cost of System Net Generation (A3)	38,938,646	44,322,631	(5,383,985)	-12.1%	1,441,903	1,528,830	(86,927)	-5.7%	2.70050	2.89912	(0.19862)	-6.9%
2. Spent Nuclear Fuel Disposal Cost	0	0	0	%0.0	0	0	0	%0.0	0.00000	0.00000	0.00000	0.0%
3. Coal Car Investment	0	0	0	%0.0	0	0	0	%0.0	0.00000	0.00000	0.00000	0.0%
4a. Adjustments - Big Bend Units 1-4 Igniters Conversion Project	360,100	359,827	273	0.1%	0	0	0	%0:0	0.00000	0.00000	0.00000	0.0%
4b. Adjustments - Polk 1 Conversion Depreciation & ROI	0	0	0	%0.0	0	0	0	%0:0	0.00000	0.00000	0.00000	%0:0
4c. Adjustments	0	0	0	%0.0	0	0	0	%0.0	0.00000	0.00000	0.00000	0.0%
5. TOTAL COST OF GENERATED POWER (Lines 1 through 4c)	39,298,746	44,682,458	(5,383,712)	-12.0%	1,441,903	1,528,830	(86,927)	-5.7%	2.72548	2.92266	(0.19718)	-6.7%
6. Fuel Cost of Purchased Power - Firm (A7)	3,051	0	3,051	%0.0	140	0	140	%0.0	2.17929	0.00000	2.17929	0.0%
7. Energy Cost of Sch C,X Econ. Purch. (Broker) (A9)	386,875	1,008,830	(621,955)	-61.7%	4,653	25,490	(20,837)	-81.7%	8.31453	3.95775	4.35678	110.1%
8. Energy Cost of Other Econ. Purch. (Non-Broker) (A9)	0	0	0	%0.0	0	0	0	%0.0	0.00000	0.00000	0.00000	0.0%
9. Energy Cost of Sch. E Economy Purchases (A9)	0	0	0	%0.0	0	0	0	%0.0	0.00000	0.0000	0.00000	%0:0
10. Capacity Cost of Sch. E Economy Purchases	0	0	0	%0.0	0	0	0	%0.0	0.00000	0.0000	0.00000	%0.0
11. Payments to Qualifying Facilities & Net Metering (A8)	245,117	194,890	50,227	25.8%	11,349	7,590	3,759	49.5%	2.15981	2.56772	(0.40791)	-15.9%
12. TOTAL COST OF PURCHASED POWER (Lines 6 through 11)	635,043	1,203,720	(568,677)	47.2%	16,142	33,080	(16,938)	-51.2%	3.93410	3.63881	0.29529	8.1%
13. TOTAL AVAILABLE KWH (LINE 5 + LINE 12)					1,458,045	1,561,910	(103,865)	.6.6 %				
14. Fuel Cost of Sch. D Jurisd. Sales (A6)	70,402	16,130	54,272	336.5%	3,248	290	2,658	450.5%	2.16755	2.73390	(0.56635)	-20.7%
15. Fuel Cost of Sch. C/CB Sales (A6)	0	0	0	%0.0	0	0	0	%0.0	0.00000	0.00000	0.00000	%0.0
16. Fuel Cost of OATT Sales (A6)	0	0	0	%0.0	0	0	0	%0.0	0.00000	0.00000	0.00000	%0.0
17. Fuel Cost of Market Base Sales (A6)	45,926	42,850	3,076	7.2%	2,141	1,200	941	78.4%	2.14507	3.57083	(1.42576)	-39.9%
18. Gains on Sales	16,319	5,099	11,220	220.0%								
19. TOTAL FUEL COST AND GAINS OF POWER SALES	132,647	64,079	68,568	107.0%	5,389	1,790	3,599	201.1%	2.46144	3.57983	(1.11839)	-31.2%
(LINE 14 + 15 + 16 + 17 + 18)												
20. Net Inadvertant Interchange					343	0	343	%0.0				
21. Wheeling Rec'd. less Wheeling Delv'd.					352	0	352	%0:0				
22. Interchange and Wheeling Losses					480	38	442	1156.3%				
23. TOTAL FUEL AND NET POWER TRANSACTIONS	39,801,142	45,822,099	(6,020,957)	-13.1%	1,452,871	1,560,082	(107,211)	%6 :9-	2.73948	2.93716	(0.19768)	-6.7%
(LINE 5 + 12 - 19 + 20 + 21 - 22)												
24. Net Unbilled	(396,157) (a)	1,497,540 (a)	(1,893,697)	-126.5%	(14,461)	50,986	(65,447)	-128.4%	2.73949	2.93716	(0.19767)	-6.7%
25. Company Use	86,075 (a)	91,052 (a)	(4,977)	-5.5%	3,142	3,100	42	1.4%	2.73950	2.93716	(0.19766)	-6.7%
26. T & D Losses	2,352,119 (a)	1,601,627 (a)	750,492	46.9%	85,860	54,530	31,330	27.5%	2.73948	2.93716	(0.19768)	-6.7%
27. System KWH Sales	39,801,142	45,822,099	(6,020,957)	-13.1%	1,378,330	1,451,466	(73,136)	-2.0%	2.88764	3.15695	(0.26932)	-8.5%
28. Wholesale KWH Sales	0	0	0	%0.0	0	0	0	%0.0	0.00000	0.00000	0.00000	0.0%
29. Junisdictional KWH Sales	39,801,142	45,822,099	(6,020,957)	-13.1%	1,378,330	1,451,466	(73,136)	-5.0%	2.88764	3.15695	(0.26932)	-8.5%
30. Jurisdictional Loss Multiplier									1.00000	1.00000	0.00000	%0:0
31. Jurisdictional KWH Sales Adjusted for Line Losses	39,801,142	45,822,099	(6,020,957)	-13.1%	1,378,330	1,451,466	(73,136)	-2.0%	2.88764	3.15695	(0.26932)	-8.5%
32. Adjustment-BB Unit 2 Outage Replacement Power Cost T-up	0	0	0	%0.0	1,378,330	1,451,466	(73,136)	-2.0%	0.00000	0.00000	0.00000	%0.0
33. True-up *	3,949,494	3,949,494	0	%0.0	1,378,330	1,451,466	(73,136)	-5.0%	0.28654	0.27210	0.01444	5.3%
34. Total Jurisdictional Fuel Cost (Excl. GPIF)	43,750,636	49,771,593	(6,020,957)	-12.1%	1,378,330	1,451,466	(73,136)	-5.0%	3.17418	3.42906	(0.25488)	-7.4%
35. Revenue Tax Factor									1.00072	1.00072	0.00000	%0.0
36. Fuel Cost Adjusted for Taxes (Excl. GPIF)	43,782,136	49,807,429	(6,025,293)	-12.1%	1,378,330	1,451,466	(73,136)	-5.0%	3.17646	3.43153	(0.25507)	-7.4%
37. GPIF * (Already Adjusted for Taxes)	(188,421)	(188,421)	0	%0.0	1,378,330	1,451,466	(73,136)	-5.0%	(0.01367)	(0.01298)	(0.00069)	5.3%
38. Fuel Cost Adjusted for Taxes (Incl. GPIF)	43,593,715	49,619,008	(6,025,293)	-12.1%	1,378,330	1,451,466	(73,136)	-5.0%	3.16279	3.41855	(0.25576)	-7.5%
39. Fuel FAC Rounded to the Nearest .001 cents per KWH									3.163	3.419	(0.256)	-7.5%

^{39.} Fuel FAC Rounded to the Nearest .001 cents per KWH

COMPARISON OF ESTIMATED AND ACTUAL
FUEL AND PURCHASED POWER COST RECOVERY FACTOR
TAMPA ELECTRIC COMPANY
PERIOD TO DATE THROUGH: December 2019

	ACTUAL	ESTIMATED	AMOUNT	%	ACTUAL	ESTIMATED	AMOUNT %	%	ACTUAL	ESTIMATED	AMOUNT %	%
1. Fuel Cost of System Net Generation (A3)	525,783,664	574,179,130	(48,395,466)	-8.4%	19,464,414	19,485,150	(20,736)	-0.1%	2.70126	2.94675	(0.24550)	-8.3%
2. Spent Nuclear Fuel Disposal Cost	0	0	0	%0.0	0	0	0	%0.0	0.00000	0.00000	0.00000	%0:0
3. Coal Car Investment	0	0	0	%0.0	0	0	0	0.0%	0.00000	0.00000	0.00000	0.0%
4a. Adjustments - Big Bend Units 1-4 Igniters Conversion Project	4,462,962	4,462,045	917	%0.0	0	0	0	0.0%	0.00000	0.00000	0.00000	0.0%
4b. Adjustments - Polk 1 Conversion Depreciation & ROI	0	0	0	%0.0	0	0	0	%0.0	0.00000	0.00000	0.00000	0.0%
4c. Adjustments	0	0	0	0.0%	0	0	0	0.0%	0.00000	0.00000	0.00000	0.0%
5. TOTAL COST OF GENERATED POWER (Lines 1 through 4c)	530,246,626	578,641,175	(48,394,549)	-8.4%	19,464,414	19,485,150	(20,736)	-0.1%	2.72418	2.96965	(0.24547)	-8.3%
6. Fuel Cost of Purchased Power - Firm (A7)	347,608	0	347,608	%0.0	10,270	0	10,270	%0.0	3.38469	0.00000	3.38469	0.0%
7. Energy Cost of Sch C,X Econ. Purch. (Broker) (A9)	43,757,439	32,887,040	10,870,399	33.1%	1,234,844	894,370	340,474	38.1%	3.54356	3.67712	(0.13356)	-3.6%
8. Energy Cost of Other Econ. Purch. (Non-Broker) (A9)	0	0	0	%0.0	0	0	0	0.0%	0.00000	0.00000	0.00000	0.0%
9. Energy Cost of Sch. E Economy Purchases (A9)	0	0	0	%0.0	0	0	0	%0.0	0.00000	0.0000	0.00000	%0:0
10. Capacity Cost of Sch. E Economy Purchases	0	0	0	%0.0	0	0	0	%0:0	0.00000	0.0000	0.00000	0.0%
11. Payments to Qualifying Facilities & Net Metering (A8)	4,685,865	2,641,870	2,043,995	77.4%	221,747	90,120	131,627	146.1%	2.11316	2.93150	(0.81834)	-27.9%
12. TOTAL COST OF PURCHASED POWER (Lines 6 through 11)	48,790,912	35,528,910	13,262,002	37.3%	1,466,861	984,490	482,371	49.0%	3.32621	3.60886	(0.28265)	-7.8%
13. TOTAL AVAILABLE KWH (LINE 5 + LINE 12)					20,931,275	20,469,640	461,635	2.3%				
14. Fuel Cost of Sch. D Jurisd. Sales (A6)	646,314	271,470	374,844	138.1%	32,666	10,330	22,336	216.2%	1.97855	2.62798	(0.64942)	-24.7%
15. Fuel Cost of Sch. C/CB Sales (A6)	0	0	0	%0.0	0	0	0	0.0%	0.00000	0.00000	0.00000	0.0%
16. Fuel Cost of OATT Sales (A6)	0	0	0	%0.0	0	0	0	%0.0	0.00000	0.00000	0.00000	0.0%
17. Fuel Cost of Market Base Sales (A6)	2,781,388	453,055	2,328,333	513.9%	122,535	11,990	110,545	922.0%	2.26987	3.77861	(1.50873)	-39.9%
18. Gains on Sales	1,539,956	58,965	1,480,991	2511.6%								
19. TOTAL FUEL COST AND GAINS OF POWER SALES	4,967,658	783,490	4,184,168	534.0%	155,201	22,320	132,881	595.3%	3.20079	3.51026	(0.30947)	-8.8%
(LINE 14 + 15 + 16 + 17 + 18)												
20. Net Inadvertant Interchange					137	0	137	%0:0				
21. Wheeling Rec'd. less Wheeling Delv'd.					32,391	0	32,391	%0.0				
22. Interchange and Wheeling Losses					36,067	524	35,543	6781.0%				
23. TOTAL FUEL AND NET POWER TRANSACTIONS	574,069,880	613,386,595	(39,316,715)	-6.4%	20,772,535	20,446,796	325,739	1.6%	2.76360	2.99992	(0.23631)	-7.9%
(LINE 5 + 12 - 19 + 20 + 21 - 22)												
24. Net Unbilled	(2,754,691) (a)	(583,069) (a)	(2,171,622)	372.4%	(73,907)	14,441	(88,348)	-611.8%	3.72724	(4.03759)	7.76483	-192.3%
25. Company Use	1,050,461 (a)	1,127,927 (a)	(77,466)	%6.9-	37,790	37,200	290	1.6%	2.77973	3.03206	(0.25233)	-8.3%
26. T & D Losses	28,267,619 (a)	27,654,738 (a)	612,881	2.2%	1,025,086	912,723	112,363	12.3%	2.75759	3.02992	(0.27233)	-9.0%
27. System KWH Sales	574,069,880	613,386,595	(39,316,715)	-6.4%	19,783,566	19,482,432	301,134	1.5%	2.90175	3.14841	(0.24666)	-7.8%
28. Wholesale KWH Sales	0	0	0	0:0%	0	0	0	%0:0	0.00000	0.00000	0.00000	0.0%
29. Jurisdictional KWH Sales	574,069,880	613,386,595	(39,316,715)	-6.4%	19,783,566	19,482,432	301,134	1.5%	2.90175	3.14841	(0.24666)	-7.8%
30. Jurisdictional Loss Multiplier									1.00000	1.00000	0.00000	0.0%
31. Jurisdictional KWH Sales Adjusted for Line Losses	574,069,880	613,386,595	(39,316,715)	-6.4%	19,783,566	19,482,432	301,134	1.5%	2.90175	3.14841	(0.24666)	-7.8%
32. Adjustments - Schedule A2, page 2, lines 6c and 7a	0	0	0	%0:0	19,783,566	19,482,432	301,134	1.5%	0.00000	0.00000	0.00000	%0:0
33. True-up *	33,791,590	33,791,590	0	%0:0	19,783,566	19,482,432	301,134	1.5%	0.17081	0.17345	(0.00264)	-1.5%
34. Total Jurisdictional Fuel Cost (Excl. GPIF)	607,861,470	647,178,185	(39,316,715)	-6.1%	19,783,566	19,482,432	301,134	1.5%	3.07256	3.32186	(0.24930)	-7.5%
35. Revenue Tax Factor									1.00072	1.00072	0.00000	%0:0
36. Fuel Cost Adjusted for Taxes (Excl. GPIF)	608,299,130	647,644,153	(39,345,023)	-6.1%	19,783,566	19,482,432	301,134	1.5%	3.07477	3.32425	(0.24948)	-7.5%
37. GPIF * (Already Adjusted for Taxes)	(2,261,019)	(2,261,019)	0	%0.0	19,783,566	19,482,432	301,134	1.5%	(0.01143)	(0.01161)	0.00018	-1.5%
38. Fuel Cost Adjusted for Taxes (Incl. GPIF)	606,038,111	645.383.134	(39.345.023)	-6 1%	19.783.566	19.482.432	301.134	4 5%	3.06334	3 3 1 2 6 4	(000707)	7 E9/
			(0-010100)	9/1.0	200,000,000			0/0:		0.0	(0.24930)	, c. /-

^{39.} Fuel FAC Rounded to the Nearest .001 cents per KWH

* Based on Jurisdictional Sales (a) included for informational purposes only

CALCULATION OF TRUE-UP AND INTEREST PROVISION TAMPA ELECTRIC COMPANY MONTH OF: December 2019

		CURRENT MONTH	NTH			PERIOD TO DATE	ATE	
	ACTUAL	ESTIMATED	DIFFERENCE	ICE	ACTUAL	ESTIMATED	DIFFERENCE	ЭЕ %
A. FUEL COST & NET POWER TRANSACTION								
1. FUEL COST OF SYSTEM NET GENERATION	38,938,646	44,322,631	(5,383,985)	-12.1%	525,783,664	574,179,130	(48,395,466)	-8.4%
1a. FUEL REL. R & D AND DEMO. COST	0	0	0	0.0%	0	0	0	%0.0
2. FUEL COST OF POWER SOLD	116,328	58,980	57,348	97.2%	3,427,702	724,525	2,703,177	373.1%
2a. GAINS FROM SALES	16,319	5,099	11,220	220.0%	1,539,956	58,965	1,480,991	2511.6%
3. FUEL COST OF PURCHASED POWER	3,051	0	3,051	0.0%	347,608	0	347,608	%0.0
3a. DEMAND & NONFUEL COST OF PUR. PWR.	0	0	0	%0.0	0	0	0	%0.0
3b. PAYMENT TO QUALIFIED FACILITIES	245,117	194,890	50,227	25.8%	4,685,865	2,641,870	2,043,995	77.4%
4. ENERGY COST OF ECONOMY PURCHASES	386,875	1,008,830	(621,955)	-61.7%	43,757,439	32,887,040	10,870,399	33.1%
5. TOTAL FUEL & NET POWER TRANSACTION	39,441,042	45,462,272	(6,021,230)	-13.2%	569,606,918	608,924,550	(39,317,632)	-6.5%
6a. ADJ BIG BEND UNITS 1-4 IGNITERS CONVERSION PROJECT	360,100	359,827	273	0.1%	4,462,962	4,462,045	917	%0.0
6b. ADJUSTMENT	0	0	0	%0.0	0	0	0	%0.0
6c. ADJUSTMENT	0	0	0	%0.0	0	0	0	%0.0
7. ADJUSTED TOTAL FUEL & NET PWR.TRANS.	39,801,142	45,822,099	(6,020,957)	-13.1%	574,069,880	613,386,595	(39,316,715)	-6.4%
B. MWH SALES								
1. JURISDICTIONAL SALES	1,378,330	1,451,466	(73,136)	-5.0%	19,783,566	19,482,432	301,134	1.5%
2. NONJURISDICTIONAL SALES	0	0	0	0.0%	0	0	0	%0.0
3. TOTAL SALES	1,378,330	1,451,466	(73,136)	-5.0%	19,783,566	19,482,432	301,134	1.5%
4. JURISDIC. SALES-% TOTAL MWH SALES	1.0000000	1.0000000	0.0000000	%0.0	1.0000000	1.0000000	0.0000000	%0.0

CALCULATION OF TRUE-UP AND INTEREST PROVISION TAMPA ELECTRIC COMPANY MONTH OF: December 2019

		CURRENT MONTH	NTH			PERIOD TO DATE		
	ACTUAL	ESTIMATED	DIFFERENCE	NCE	ACTUAL	ESTIMATED	DIFFERENCE	ICE %
C. TRUE-UP CALCULATION								
1. JURISDICTIONAL FUEL REVENUE	43,513,445	45,990,470	(2,477,025)	-5.4%	614,741,063	605,688,614	9,052,449	1.5%
2. FUEL ADJUSTMENT NOT APPLICABLE	0	0	0	0.0%	0	0	0	%0.0
2a. TRUE-UP PROVISION	(3,949,494)	(3,949,494)	0	0.0%	(33,791,590)	(33,791,590)	0	%0.0
2b. GPIF PROVISION	188,421	188,421	0	0.0%	2,261,019	2,261,019	0	%0.0
2c. ADJUSTMENT	0	0	0	0.0%	0	0	0	%0:0
3. JURIS. FUEL REVENUE APPL. TO PERIOD	39,752,372	42,229,397	(2,477,025)	-5.9%	583,210,492	574,158,043	9,052,449	1.6%
4. ADJ. TOTAL FUEL & NET PWR. TRANS. (LINE A7)	39,801,142	45,822,099	(6,020,957)	-13.1%	574,069,880	613,386,595	(39,316,715)	-6.4%
5. JURISDIC. SALES-% TOTAL MWH SALES (LINE B4)	1.0000000	1.0000000	0.0000000	0.0%				'
6. JURISDIC. TOTAL FUEL & NET PWR.TRANS.	39,801,142	45,822,099	(6,020,957)	-13.1%	574,069,880	613,386,595	(39,316,715)	-6.4%
6a. JURISDIC. LOSS MULTIPLIER	1.00000	1.00000	0.00000	0.0%		613 386 505	(30 316 715)	, 84
סטי (בווער סטי בווער סטק)	N+- (-)0000	660,170,04	(206,020,0)	2 2	000,600,600	000000000000000000000000000000000000000	(51,151,55)	? !: 6
oc. Adjournmen		D	0	0.0%	Ð	D	D	0.0%
6d. JURISDIC. TOTAL FUEL & NET PWR	39,801,142	45,822,099	(6,020,957)	-13.1%	574,069,880	613,386,595	(39,316,715)	-6.4%
INCL. ALL ADJ.(LNS. C86+C86) 7. TRUE-UP PROV. FOR MO. +/- COLLECTED (LINE C3 - LINE C6d)	(48,770)	(3,592,702)	3,543,932	%9.86-	9,140,612	(39,228,552)	48,369,164	-123.3%
8. INTEREST PROVISION FOR THE MONTH	4,312	1,987	2,325	117.0%	(882,221)	(653,962)	(228,259)	34.9%
9. TRUE-UP & INT. PROV. BEG. OF MONTH	1,174,036	565,782	608,254	107.5%		NOT APPLICABLE	ABLE	
10. TRUE-UP COLLECTED (REFUNDED)	3,949,494	3,949,494	0	0.0%		NOT APPLICABLE	ABLE	
11. END OF PERIOD TOTAL NET TRUE-UP (LINE C7 through C10)	5,079,072	924,561	4,154,511	449.3%		NOT APPLICABLE	ABLE	

CALCULATION OF TRUE-UP AND INTEREST PROVISION TAMPA ELECTRIC COMPANY MONTH OF: December 2019

		CURRENT MONTH	ONTH			PERIOD TO DATE
	ACTUAL	ESTIMATED	DIFFERENCE	%	ACTUAL	DIFFERENCE ———————————————————————————————————
D. INTEREST PROVISION						
1. BEGINNING TRUE-UP AMOUNT (LINE C9)	1,174,036	565,782	608,254	107.5%		NOT APPLICABLE
2. ENDING TRUE-UP AMOUNT BEFORE INT. (LINES C7 + C9 + C10)	5,074,760	922,574	4,152,186	450.1%		NOT APPLICABLE
3. TOTAL BEG. & END. TRUE-UP AMOUNT	6,248,796	1,488,356	4,760,440	319.8%		NOT APPLICABLE
4. AVG. TRUE-UP AMOUNT - (50% OF LINE D3)	3,124,398	744,178	2,380,220	319.8%		NOT APPLICABLE
5. INT. RATE-FIRST DAY REP. BUS. MONTH	1.600	3.200	(1.600)	%0:09-		NOT APPLICABLE
6. INT. RATE-FIRST DAY SUBSEQUENT MONTH	1.710	3.200	(1.490)			NOT APPLICABLE
7. TOTAL (LINE D5 + LINE D6)	3.310	6.400	(3.090)	48.3%		NOT APPLICABLE
8. AVERAGE INT. RATE (50% OF LINE D7)	1.655	3.200	(1.545)	48.3%		NOT APPLICABLE
9. MONTHLY AVG. INT. RATE (LINE D8/12)	0.138	0.267	(0.129)	48.3%		NOT APPLICABLE
10. INT. PROVISION (LINE D4 x LINE D9)	4,312	1,987	2,325	117.0%		NOT APPLICABLE

FUEL AND PURCHASED POWER COST RECOVERY SCHEDULE A6

JANUARY 2019 - DECEMBER 2019

POWER SOLD TAMPA ELECTRIC COMPANY FOR THE PERIOD JANUARY 2019 THROUGH DECEMBER 2019

(1)		(2)	(3)	(4)	(5)	((6)	(7)	(8)	(9)
						CENT	S/KWH			
		TYPE &	TOTAL MWH	MWH WHEELED OTHER	MWH FROM OWN	(A) FUEL	(B) TOTAL	TOTAL \$ FOR FUEL ADJUSTMENT	TOTAL \$ FOR TOTAL COST	GAINS ON MARKET BASED
SOLD TO ESTIMATED:	sc	HEDULE	SOLD	SYSTEM	GENERATION	COST	COST	(5)X(6A)	(5)X(6B)	SALES
SEMINOLE	JURISD.	SCH D	10,330.0	0.0	10,330.0	2.628	2.760	271,470.00	285,080.00	13,610.00
VARIOUS	JURISD.	MKT.BASE	11,990.0	0.0	11,990.0	3.779	4.157	453,054.69	498,410.00	45,355.31
TOTAL			22,320.0	0.0	22,320.0	3.246	3.510	724,524.69	783,490.00	58,965.31
ACTUAL:	_									
SEMINOLE ELEC. PRECO-1	JURISD.	SCH D	32,667.2	1.2	32,666.0	1.979	2.176	646,313.90	710,945.31	39,305.47
CITY OF LAKELAND		SCH MA	21,885.0	0.0	21,885.0	2.113	3.090	462,436.10	676,228.41	170,760.31
CITY OF LAKELAND		SCH MB	4,089.0	0.0	4,089.0	3.187	4.416	130,316.43	180,553.70	50,237.27
DUKE ENERGY FLORIDA		SCH MA	11,545.0	0.0	11,545.0	2.266	3.383	261,586.13	390,605.20	118,521.77
EDF TRADING		SCH MA	158.0	0.0	158.0	1.910	3.465	3,018.50	5,474.23	2,153.95
EXGEN		SCH MA	3,534.0	0.0	3,534.0	1.754	2.766	61,988.23	97,760.98	29,291.49
FLORIDA POWER & LIGHT		SCH MA	14,913.0	0.0	14,913.0	2.636	4.561	393,063.36	680,209.38	263,529.67
FMPA		SCH MA	3,220.0	0.0	3,220.0	2.649	4.975	85,285.00	160,181.61	72,544.61
MACQUARIE ENERGY LLC		SCH MA	8,134.0	0.0	8,134.0	2.065	3.263	167,981.65	265,425.15	88,449.82
MORGAN STANLEY		SCH MA	60.0	0.0	60.0	2.152	3.647	1,291.20	2,188.01	784.61
NEW SMYRNA BEACH		SCH MA	305.0	0.0	305.0	1.952	3.589	5,952.76	10,946.30	4,536.15
ORLANDO UTILITIES		SCH MA	27,556.0	0.0	27,556.0	2.185	3.535	601,962.02	974,109.09	320,535.16
REEDY CREEK		SCH MA	1.0	0.0	1.0	1.962	2.140	19.62	21.40	1.13
SEMINOLE ELECTRIC		SCH MA	7,200.0	0.0	7,200.0	1.933	3.406	139,200.00	245,263.25	93,031.25
SOUTHERN COMPANY		SCH MA	275.0	0.0	275.0	1.826	4.999	5,022.00	13,747.43	7,811.93
THE ENERGY AUTHORITY		SCH MA	19,660.0	0.0	19,660.0	2.351	3.853	462,263.65	757,500.59	278,464.81
LESS 20% - THRESHOLD EXCESS		SCH D								0.00
LESS 20% - THRESHOLD EXCESS		SCH C								0.00
LESS 20% - THRESHOLD EXCESS		SCH CB								0.00
LESS 20% - THRESHOLD EXCESS		SCH MA								0.00
SUB-TOTAL			155,202.2	1.2	155,201.0	2.209	3.332	3,427,700.55	5,171,160.04	1,539,959.40
SUB-TOTAL SCHEDULE D POWER S	ALES-JURI	SD.	32,667.2	1.2	32,666.0	1.979	2.176	646,313.90	710,945.31	39,305.47
SUB-TOTAL SCHEDULE C POWER S			0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
SUB-TOTAL SCHEDULE CB POWER			0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
SUB-TOTAL SCHEDULE MA/MB POV	VER SALES-	JURISD.	122,535.0	0.0	122,535.0	2.270	3.640	2,781,386.65	4,460,214.73	1,500,653.93
TOTAL			155,202.2	1.2	155,201.0	2.209	3.332	3,427,700.55	5,171,160.04	1,539,959.40
DIFFERENCE			132,882.2	1.2	132,881.0	(1.037)	(0.178)	2,703,175.86	4,387,670.04	1,480,994.09
DIFFERENCE %			595.4%	0.0%	595.3%	-31.9%	-5.1%	373.1%	560.0%	2511.6%

FUEL AND PURCHASED POWER COST RECOVERY SCHEDULE A7

JANUARY 2019 - DECEMBER 2019

PURCHASED POWER (EXCLUSIVE OF ECONOMY & COGENERATION) TAMPA ELECTRIC COMPANY FOR THE PERIOD JANUARY 2019 THROUGH DECEMBER 2019

(1)	(2)	(3)	(4)	(5)	(6)	(7 CENTS		(8)
PURCHASED FROM	TYPE & Schedule	TOTAL MWH PURCHASED	MWH FROM OTHER UTILITIES	MWH FOR INTER- RUPTIBLE	MWH FOR FIRM	(A) FUEL COST	(B) TOTAL COST	TOTAL \$ FOR FUEL ADJUSTMENT (6)X(7A)
ESTIMATED:								
VARIOUS		0.0	0.0	0.0	0.0	0.000	0.000	0.00
TOTAL		0.0	0.0	0.0	0.0	0.000	0.000	0.00
ACTUAL:								
PASCO COGEN	SCH D *	0.0	0.0	0.0	0.0	0.000	0.000	103,799.73
DUKE ENERGY FLORIDA	EMERG A	124.0	0.0	0.0	124.0	19.671	19.671	24,392.04
ORLANDO UTIL. COMM.	EMERG A	100.0	0.0	0.0	100.0	5.635	5.635	5,635.00
DUKE ENERGY FLORIDA	OATT	10,046.0	0.0	0.0	10,046.0	2.128	2.128	213,781.69
SUB-TOTAL		10,270.0	0.0	0.0	10,270.0	3.385	3.385	347,608.46
SUB-TOTAL SCHEDULE D PURCHASED	DOWER	0.0	0.0	0.0	0.0	0.000	0.000	103.799.73
SUB-TOTAL SCHEDULE EMERG A PURC		224.0	0.0	0.0	224.0	13.405	13.405	30,027.04
SUB-TOTAL SCHEDULE OATT PURCHA		10,046.0	0.0	0.0	10,046.0	2.128	2.128	213,781.69
TOTAL	SED FOWER	10,046.0	0.0	0.0	10,046.0	3.385	3.385	347,608.46
IVIAL		10,210.0	0.0	0.0	10,210.0	0.000	3.505	5-1,000.40
DIFFERENCE		10,270.0	0.0	0.0	10,270.0	3.385	3.385	347,608.46
DIFFERENCE %		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

^{*} Includes adjustments to December 2018 and for the sale of back-up oil for Pasco Cogen

FUEL AND PURCHASED POWER COST RECOVERY SCHEDULE A8

JANUARY 2019 - DECEMBER 2019

ENERGY PAYMENT TO QUALIFYING FACILITIES TAMPA ELECTRIC COMPANY FOR THE PERIOD JANUARY 2019 THROUGH DECEMBER 2019

(1)	(2)	(3)	(4)	(5)	(6)	(7))	(8)
						CENTS	KWH	
	TYPE	TOTAL	MWH FROM	MWH FOR	MWH	(A)	(B)	TOTAL \$ FOR FUEL
ESTIMATED:								
VARIOUS	COGEN.							
VARIOUS	AS AVAIL.	90,120.0	0.0	0.0	00.420.0	2.022	2.022	2 644 970 00
	AS AVAIL.		0.0	0.0	90,120.0	2.932	2.932	2,641,870.00
TOTAL		90,120.0	0.0	0.0	90,120.0	2.932	2.932	2,641,870.00
ACTUAL:	AS AVAILABI	LE						
McKAY BAY REFUSE	COGEN.	9.0	0.0	0.0	9.0	2.504	2.504	225.32
CARGILL RIDGEWOOD	COGEN.	11,196.0	0.0	0.0	11,196.0	2.184	2.184	244,513.76
CARGILL MILLPOINT	COGEN.	35,428.0	0.0	0.0	35,428.0	2.141	2.141	758,604.34
IMC-AGRICO-NEW WALES	COGEN.	2,743.0	0.0	0.0	2,743.0	2.525	2.525	69,259.22
IMC-AGRICO-S. PIERCE	COGEN.	170,709.0	0.0	0.0	170,709.0	2.092	2.092	3,571,294.72
SUB-TOTAL COGEN		220,085.0	0.0	0.0	220,085.0	2.110	2.110	4,643,897.36
NET METERING		1,659.5	0.0	0.0	1,659.5	2.529	2.529	41,969.26
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			,,			,
TOTAL INCL NET METERING		221,744.5	0.0	0.0	221,744.5	2.113	2.113	4,685,866.62
DIFFERENCE		131,624.5	0.0	0.0	131,624.5	(0.818)	(0.818)	2,043,996.62
DIFFERENCE %		146.1%	0.0%	0.0%	146.1%	-27.9%	-27.9%	77.4%

FUEL AND PURCHASED POWER COST RECOVERY SCHEDULE A9

JANUARY 2019 - DECEMBER 2019

ECONOMY ENERGY PURCHASES TAMPA ELECTRIC COMPANY FOR THE PERIOD JANUARY 2019 THROUGH DECEMBER 2019

(1)	(2)	(3)	(4)	(5)	(6)	(7)	COST II	(8) F GENERATED	(9)
PURCHASED FROM	TYPE & SCHEDULE	TOTAL MWH PURCHASED	MWH FOR INTERRUP- TIBLE	MWH FOR FIRM	TRANSACTIO N COSTS	TOTAL \$ FOR FUEL ADJUSTMENT	(A) CENTS PER KWH	(B) TOTAL COST	FUEL SAVINGS (8B)-7
ESTIMATED:	SCHEDULE	FUNCHASED	TIBLE	FIKIWI	00313	(5) X (6)	KWII		(00)-1
VARIOUS	Economy	894,370.0	0.0	894,370.0	3.677	32,887,040.00	4.358	38,976,438.00	6,089,398.00
TOTAL		894,370.0	0.0	894,370.0	3.677	32,887,040.00	4.358	38,976,438.00	6,089,398.00
ACTUAL:									
CITY OF LAKELAND	SCH J	330.0	0.0	330.0	3.900	12,870.00	3.900	12,870.00	0.00
CITY OF TALLAHASSEE	SCH J	2,740.0	0.0	2,740.0	1.264	34,630.00	2.174	59,557.50	24,927.50
DUKE ENERGY FLORIDA	SCH J	862,265.0	0.0	862,265.0	3.456	29,802,243.71	4.400	37,941,085.12	8,138,841.41
EDF TRADING	SCH J	1,825.0	0.0	1,825.0	5.574	101,730.00	6.422	117,199.50	15,469.50
EXGEN	SCH J	31,544.0	96.4	31,447.6	3.896	1,225,154.84	5.102	1,604,332.63	379,177.79
FLORIDA POWER & LIGHT	SCH J	88,433.0	47.4	88,385.6	4.281	3,783,721.15	4.857	4,293,136.70	509,415.55
FMPA	SCH J	185,070.0	0.0	185,070.0	2.994	5,541,618.05	3.427	6,342,462.85	800,844.80
MACQUARIE ENERGY LLC	SCH J	3,529.0	0.0	3,529.0	6.412	226,294.00	6.911	243,898.00	17,604.00
MORGAN STANLEY	SCH J	6,179.0	0.0	6,179.0	4.734	292,497.00	4.832	298,555.30	6,058.30
ORLANDO UTIL. COMM.	SCH J	17,152.0	0.0	17,152.0	4.918	843,525.00	5.833	1,000,487.15	156,962.15
RAINBOW ENERGY MARKETERS	SCH J	4,587.0	0.0	4,587.0	5.848	268,260.00	5.848	268,260.00	0.00
SOUTHERN COMPANY	SCH J	9,162.0	0.0	9,162.0	4.956	454,041.00	4.956	454,041.00	0.00
THE ENERGY AUTHORITY	SCH J	22,172.0	0.0	22,172.0	5.281	1,170,855.00	6.089	1,349,960.57	179,105.57
SUB-TOTAL		1,234,988.0	143.8	1,234,844.2	3.544	43,757,439.75	4.372	53,985,846.32	10,228,406.57
SUB-TOTAL SCHEDULE J ECONOMY PURC	CHASES	1,234,988.0	143.8	1,234,844.2	3.544	43,757,439.75	4.372	53,985,846.32	10,228,406.57
TOTAL		1,234,988.0	143.8	1,234,844.2	3.544	43,757,439.75	4.372	53,985,846.32	10,228,406.57
DIFFERENCE		340,618.0	143.8	340,474.2	(0.134)	10,870,399.75	0.014	15,009,408.32	4,139,008.57
DIFFERENCE %		38.1%	0.0%	38.1%	-3.6%	33.1%	0.3%	38.5%	68.0%

FUEL AND PURCHASED POWER COST RECOVERY SCHEDULE A12

JANUARY 2019 - DECEMBER 2019
REDACTED

SCHEDULE A12 PAGE 1 OF 1

CAPACITY COSTS
ACTUAL PURCHASES AND SALES
TAMPA ELECTRIC COMPANY
FOR THE PERIOD JANUARY 2019 THROUGH DECEMBER 2019

	START	END	1	CONTRACT										
SEMINOLE ELECTRIC **	6/1/1992				QF = QUALIFYING FACILITY LT = LONG TERM ST = SHORT-TERM * THREE YEAR NOTICE REQI	IG FACILITY I R I IOTICE REQUIRE	QF = QUALIFYING FACILITY LT = LONG TERM ST = SHORT-TERM ** THREE YEAR NOTICE REQUIRED FOR TERMINATION.	vijon.						
CONTRACT	JANUARY	FEBRUARY		MARCH	APRIL MW	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER MW	NOVEMBER MW	DECEMBER	
SEMINOLE ELECTRIC	εό	1.8	10.8	6.7	9.3	11.5	18.4	8.4	6.3	7.3	9.3	10.1	1.5	
CAPACITY	JANUARY (\$)	FEBRUARY (\$)		MARCH (\$)	APRIL (\$)	MAY (\$)	JUNE (\$)	JULY (\$)	AUGUST (\$)	SEPTEMBER (\$)	OCTOBER (\$)	NOVEMBER (\$)	DECEMBER (\$)	TOTAL (\$)
FLORIDA POWER & LIGHT DI IKE ENERGY ELORIDA														
JACKSONVILLE ELECTRIC AUTHORITY	<u> </u>													
OCENINO E EL ECTEDO.														
DUKE ENERGY FLORIDA - MA														
FLORIDA POWER & LIGHT - MA														
CITY OF LAKELAND - MA														
ORLANDO UTILITIES - MA														
EXGEN - MA														
SEMINOLE ELECTRIC - MA														
THE ENERGY AUTHORITY - MA														
MACQUARIE ENERGY LLC - MA														
MORGAN STANLEY - MA														
SOUTHERN CO - MA														
FMPA - MA														
NEW SMYRNA BEACH - MA														
EDF TRADING - MA														
SUBTOTAL CAPACITY SALES														
TOTAL PURCHASES AND (SALES)	\$ (55,697)	s.	\$ (666,62)	(5,304) \$	(34,891) \$	\$ (105,743) \$	\$ (33,906) \$	\$ (33,514) \$	\$ (72,756)	s	(43,150) \$ (375,827)	\$ (66,585) \$	(95,168)	\$ (1,002,540)
X+10+			í	4 (100 1)	100.00	(401 140)	(000 00)	(17.00)		(40.470)	100 100	101 007		4 000 1
TOTAL CAPACITY	\$ (55,697) \$	(79,	\$ (666'6,	(5,304) \$	(34,891)	\$ (105,743)	\$ (33,906)	\$ (33,514)	\$ (72,756) \$	(43,150)	\$ (375,827) \$	(66,585)	s	(95,168) \$ (1,002,540)

DOCKET NO. 20200001-EI FAC 2019 FINAL TRUE-UP EXHIBIT NO.____ (PAR-1) DOCUMENT NO. 5

EXHIBIT TO THE TESTIMONY OF

PENELOPE A. RUSK

DOCUMENT NO. 5

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 2 ADD IMPESTMENT: BIG BOAD Unit 3 / Jon 2015)	\$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
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)													
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 6 A VERAGE BALANCE 9 PERBECKATORI DATE	\$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	
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 12 ENDING BALANCE DEPRECIATION	15,095,780 \$15,444,286	- 15,444,286 \$15,792,792	- 15,792,792 \$16,141,297	- 16,141,297 \$16,489,803	- 16,489,803 \$16,838,309	- 16,838,309 \$17,186,815	- 17,186,815 \$17,535,321	- 17,535,321 \$17,883,826	- 17,883,826 \$18,232,332	- 18,232,332 \$18,580,838	- 18,580,838 \$18,929,344	- 18,929,344 \$19,277,850	15,095,780 \$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 19 ALI OWED FOUITY RETURN	\$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	
20 EQUITY COMPONENT AFTER-TAX	20,316	19,061	17,805	16,550	15,295	14,040	13,279	11,975	10,671	6,367	8,064	6,760	163,183
21 CONVERSION TO PRE-TAX 22 EQUITY COMPONENT PRE-TAX	1.34295	1.34295	1.34295	1.34295	1.34295	1.34295	1.34295	1.34295	1.34295	1.32830	1.32830	1.32830	\$218,791
23 24 ALLOWED DEBT RETURN	14287%	14287%	14287%	14287%	14287%	14287%	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										(\$2,038)			(\$2,038)
REQUIREMENTS	\$35,341	\$33,158	\$30,973	\$28,790	\$26,607	\$24,424	\$22,970	\$20,715	\$18,459	\$14,028	\$13,831	\$11,594	\$280,890
28 PRIOK MONIH IRCE-UP 29 TOTAL DEPRECIATION & RETURN	\$383,847	\$381,664	\$379,479	\$377,296	\$375,113	\$372,930	\$371,476	\$369,221	\$366,965	\$362,534	\$362,337	\$360,100	\$4,462,962
30 STIMATED FUEL SAVINGS	\$556,528	\$515,586	\$413,422	\$695,832	\$685,374	\$495,625	\$860,514	\$473,271	\$196,904	\$384,980	\$552,612	\$426,533	\$6,257,182
32 IOIAL DEPRECIATION & RETURN CONTROL OF THE CONTR	\$383,847	\$381,664	\$379,479	\$377,296	\$375,113	\$372,930	\$371,476	\$369,221	\$366,965	\$362,534	\$362,337	\$360,100	\$4,462,962
33 NET BENEFIT (COST) TO RATEPAYER	\$172,681	\$133,923	\$33,943	\$318,536	\$310,261	\$122,695	\$489,039	\$104,050	(\$170,061)	\$22,446	\$190,275	\$66,433	\$1,794,221

34 DEPRECIATION EXPENSE IS CALCULATED BASED UPON A FIVE YEAR PERIOD.

35 RETURN ON WERAGE INVESTMENT IS CALCULATED FOR JULY - SUPTINE BY A SUBJECT OF 75190% (FOULTY 5 8049%, DEBT 1,7144%), RATES ARE BASED ON THE MAY 2018 SURVEILLANCE REPORT PER VACC STIPULATION & SETTLEMENT AGREEMENT (JULY 77, 2012).

36 RETURN ON AVERAGE INVESTMENT IS CALCULATED FOR JULY - SEPTEMBER USING AN ANNUAL RATE OF 7,7054%, (FOULTY 6,0290%), DEBT 1,7369%), RATES ARE BASED ON THE MAY 2019 SURVEILLANCE REPORT PER VACC STIPULATION OF SETTLEMENT AGREEMENT (JULY 7, 2012).

37 RETURN ON AVERAGE INVESTMENT IS CALCULATED FOR COTOBER - DECEMBER AND THE YEAR-TO-DATE TRUE UP FOR JULY - SEPTEMBER USING AN ANNUAL RATE OF 7,7044% (FOULTY 5,989%), DEBT 1,7369%), RETURN ON AVERAGE INVESTMENT IS CALCULATED FOR COTOBER - DECEMBER AND THE TAX MULTIPULER FROM 1,32930 AND A RESULTING YEAR-TO-DATE ROI TRUE-UP OF (82,039) IN OCTOBER 2019

38 A RETROACTIVE CHANGE TO THE STATE TAX RATE LED TO A DECREASE IN THE TAX MULTIPUER FROM 1,32930 AND A RESULTING YEAR-TO-DATE ROI TRUE-UP OF (82,039) IN OCTOBER 2019

39 THE ETURN REQUIREMENT FOR ANNUARY - SEPTEMBER SOLOULATED DRASED UPON A COMBINED STATUTORY RATE OF 28,345%

40 THE RETURN REQUIREMENT FOR ADDIAGES. DECEMBER AND THE YEAR-TO-DATE RIVE UP FOR ANNUARY SATE OF 24,522%

41 ZERO PROJECTED GENERATION RESULTS IN ZERO ESTIMATED FUEL, SAVINGS FOR THAT MONTH.

DOCKET NO. 20200001-EI FAC 2019 FINAL TRUE-UP EXHIBIT NO._____ (PAR-1) DOCUMENT NO. 5 PAGE 2 OF 5

Tampa Electric Company Calculation of Revenue Requirement Rate of Return For Cost Recovery Clauses JANUARY 2019 to JUNE 2019 Prior to State Tax Reform

	Prior to State Tax R	Reform			
	(1)	(2)	(3)	(4)	
	Jurisdictional				
	Rate Base			Weighted	
	Actual May 2018		Cost	Cost	
	Capital Structure	Ratio	Rate	Rate	
	(\$000)	%	%	%	
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	\$ 5.634.648	<u>100.00%</u>		<u>6.04%</u>	
ITC split between Debt and Equity:					
Long Term Debt	\$ 1,719,219	ı	ong Term De	eht .	46.00%
Equity - Preferred	0		quity - Prefe		0.00%
Equity - Common	<u>2,367,502</u>		quity - Comn		54.00%
_4,	<u> </u>	_			<u>000 / 0</u>
Total	<u>\$ 4.086.721</u>		Total		<u>100.00%</u>
Deferred ITC - Weighted Cost: Debt = .0289% * 46.00% Equity = .0289% * 54.00% Weighted Cost	0.0133% <u>0.0156%</u> <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 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.

DOCKET NO. 20200001-EI FAC 2019 FINAL TRUE-UP EXHIBIT NO._____ (PAR-1) DOCUMENT NO. 5 PAGE 3 OF 5

Tampa Electric Company Calculation of Revenue Requirement Rate of Return For Cost Recovery Clauses July 2019 to December 2019 Prior to State Tax Reform

	Prior to State Tax F	Reform			
	(1)	(2)	(3)	(4)	
	Jurisdictional				
	Rate Base			Weighted	
	Actual May 2019		Cost	Cost	
	Capital Structure	Ratio	Rate	Rate	
	(\$000)	%	%	%	
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	\$ 6.011.707	<u>100.00%</u>		6.23%	
ITC split between Debt and Equity:					
Long Term Debt	\$ 1,897,597	1	ong Term De	ebt	46.00%
Equity - Preferred	0		quity - Prefe		0.00%
Equity - Common	<u>2,598,065</u>		quity - Comn		54.00%
-4 ,	=1222,222		· · · · · · · · · · · · · · · · ·		
Total	\$ 4.495.662		Total		<u>100.00%</u>
Deferred ITC - Weighted Cost: Debt = 0.1110% * 46.00% Equity = 0.1110% * 54.00% Weighted Cost	0.0511% <u>0.0599%</u> <u>0.1110%</u>				
Total Equity Cost Rate:					
Preferred Stock	0.0000%				
Common Equity	4.4297%				
Deferred ITC - Weighted Cost	0.0599%				
	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>				
	7.7662%				
	1.1002%				

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.

DOCKET NO. 20200001-EI FAC 2019 FINAL TRUE-UP EXHIBIT NO._____ (PAR-1) DOCUMENT NO. 5 PAGE 4 OF 5

Tampa Electric Company Calculation of Revenue Requirement Rate of Return For Cost Recovery Clauses JANUARY 2019 to JUNE 2019 Updated for State Tax Reform

U	pdate	d for State Tax	Reform			
		(1)	(2)	(3)	(4)	
	J	urisdictional				
		Rate Base			Weighted	
	Ac	tual May 2018		Cost	Cost	
	Ca	pital Structure	Ratio	Rate	Rate	
		(\$000)	%	%	%	
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>	0.36%	8.10%	0.0289%	
Total	\$	5.634.648	100.00%		<u>6.04%</u>	
ITC split between Debt and Equity:						
Long Term Debt	\$	1,719,219	1	ong Term De	≥ht	46.00%
Equity - Preferred	Ψ	0		quity - Prefe		0.00%
Equity - Common		2,367,502		quity - Comr		54.00%
			_			
Total	\$	4.086.721		Total		<u>100.00%</u>
Deferred ITC - Weighted Cost: Debt = .0289% * 46.00% Equity = .0289% * 54.00% Weighted Cost		0.0133% 0.0156% 0.0289%				
Total Equity Cost Rate:		0.0000/				
Preferred Stock		0.0000%				
Common Equity		4.3067%				
Deferred ITC - Weighted Cost		<u>0.0156%</u>				
Time as Tare Markin line		4.3223%				
Times Tax Multiplier Total Equity Component		1.32830				
Total Equity Component		<u>5.7413%</u>				
Total Debt Cost Rate:						
Long Term Debt		1.5652%				
Short Term Debt		0.0945%				
Customer Deposits		0.0414%				
Deferred ITC - Weighted Cost		0.0133%				
Total Debt Component		<u>1.7144%</u>				
		7.4557%				
		7.700770				

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.

DOCKET NO. 20200001-EI FAC 2019 FINAL TRUE-UP EXHIBIT NO._____ (PAR-1) DOCUMENT NO. 5 PAGE 5 OF 5

Tampa Electric Company Calculation of Revenue Requirement Rate of Return For Cost Recovery Clauses July 2019 to December 2019 Updated for State Tax Reform

Ui	pdated	I for State Tax	Reform			
		(1)	(2)	(3)	(4)	
		risdictional				
		Rate Base			Weighted	
		ual May 2019		Cost	Cost	
	Сар	ital Structure	Ratio	Rate	Rate	
		(\$000)	%	%	%	
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	\$	6.011.707	100.00%		<u>6.23%</u>	
ITC split between Debt and Equity:						
Long Term Debt	\$	1,897,597		ong Term De		46.00%
Equity - Preferred		0		quity - Prefer		0.00%
Equity - Common		<u>2,598,065</u>	E	quity - Comm	non	<u>54.00%</u>
						400 0004
Total	\$	4.495.662		Total		<u>100.00%</u>
Deferred ITC - Weighted Cost: Debt = 0.1110% * 46.00% Equity = 0.1110% * 54.00% Weighted Cost		0.0511% <u>0.0599%</u> <u>0.1110%</u>				
Total Equity Cost Rate:		0.00000/				
Preferred Stock		0.0000% 4.4297%				
Common Equity Deferred ITC - Weighted Cost		0.0599%				
Defended 110 - Weighted Cost		4.4896%				
Times Tax Multiplier		1.32830				
Total Equity Component		<u>5.9635%</u>				
Total Debt Cost Rate:		4.54050/				
Long Term Debt		1.5435%				
Short Term Debt		0.1047% 0.0376%				
Customer Deposits Deferred ITC - Weighted Cost		0.0376% <u>0.0511%</u>				
Total Debt Component		<u>0.0311%</u> 1.7369%				
Total Bost Component		1.730370				
		7.7004%				

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.



BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 20200001-EI

IN RE: FUEL & PURCHASED POWER COST RECOVERY

AND

CAPACITY COST RECOVERY

2019 OPTIMIZATION MECHANISM

TESTIMONY AND EXHIBIT

JOHN C. HEISEY

FILED: MARCH 2, 2020

FILED:

3/2/2020

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION 1 PREPARED DIRECT TESTIMONY 2 3 OF JOHN C. HEISEY 4 5 Please state your name, address, occupation and employer. 6 Q. 7 My name is John C. Heisey. My business address is 702 N. 8 Α. Franklin Street, Tampa, Florida 33602. I am employed by 9 Tampa Electric Company ("Tampa Electric" or "company") as 10 11 Manager, Gas and Power Trading. 12 Please provide a brief outline of your educational 13 14 background and business experience. 15 I graduated from Pennsylvania State University with a 16 Α. Bachelor of Science in Business Logistics. I have over 25 17 years of power and natural gas trading experience, 18 including employment at TECO Energy Source, FPL Energy 19 20 Services, El Paso Energy, and International Paper. Prior to joining Tampa Electric, I was Vice President of Asset 21 Trading for the Entegra Power Group LLC ("Entegra") where 22 23 was responsible for Entegra's energy trading activities. Entegra managed a large quantity of merchant 24 capacity in bilateral and organized markets. I joined 25

Tampa Electric in September 2016 as the Manager of Gas and Power Trading and currently hold that position. I am responsible for all natural gas and power trading activities and work closely with the company's unit commitment to provide low cost, reliable power to our customers. In addition, I am responsible for portfolio optimization and all aspects of the Optimization Mechanism.

Q. Please state the purpose of your testimony.

A. The purpose of my testimony is to present, for the Commission's review, the 2019 results of Tampa Electric's activities under the Optimization Mechanism, as authorized by FPSC Order No. PSC-2017-0456-S-EI, issued in Docket No. 20160160-EI on November 27, 2017.

Q. Do you wish to sponsor an exhibit in support of your testimony?

A. Yes. Exhibit No. JCH-1, entitled Optimization Mechanism Results, was prepared under my direction and supervision.

My exhibit shows the gains for each type of activity included in the Optimization Mechanism and the sharing of gains between customers and the company.

Q. Please provide an overview of the Optimization Mechanism.

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A. The Optimization Mechanism is designed to create additional value for Tampa Electric's customers while also providing an incentive to the company if certain customer-value thresholds are achieved. The Optimization Mechanism includes gains from wholesale power sales and savings from wholesale power purchases, as well as gains from other forms of asset optimization.

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Q. Please describe Tampa Electric's Optimization Mechanism submitted in Docket No. 20160160-EI and approved by Order No. PSC-2017-0456-S-EI.

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Effective January 1, 2018, for the four-year period from 2018 through 2021, gains on all optimization mechanism activities, including short-term wholesale sales, shortwholesale purchases, all forms term and of asset optimization undertaken each year will be shared between shareholders and customers. The sharing thresholds are (a) for the first \$4.5 million per year, 100 percent of gains to customers; (b) for gains greater than \$4.5 million per year and less than \$8.0 million per year, split 60 percent to shareholders and 40 percent to customers; and (c) for gains greater than \$8.0 million

50-50 sharing between shareholders 1 per year, and 2 customers. 3 Optimization Mechanism Transactions 4 5 Please provide the details of Tampa Electric's short-term wholesale sales under the Optimization Mechanism for 6 2019. 8 Optimization Mechanism gains from wholesale sales were 9 Α. \$1,498,686 or 23 percent of optimization gains for 2019. 10 11 The monthly detail is shown in my exhibit in the schedule "Wholesale Sales-Table 3." 12 13 14 Q. Please provide the details of Tampa Electric's short-term wholesale purchases under the Optimization Mechanism for 15 2019. 16 17 Optimization Mechanism gains from wholesale purchases 18 Α. were \$4,428,298 or 68 percent of optimization gains for 19 2019. The monthly detail can be found in my exhibit on 20 the schedule labeled "Wholesale Purchases-Table 4." 21 22 23 Q. Please describe Tampa Electric's asset optimization activities and the gains from those transactions under 24

the Optimization Mechanism for 2019.

25

A. Optimization Mechanism gains from asset optimization activities were \$541,049 or 9 percent of optimization gains for 2019. The gains from asset optimization activities are shown in my exhibit at "Asset Optimization Detail-Table 5."

A description of Tampa Electric's 2019 asset optimization activities is provided below.

- Gas storage utilization release contracted storage space or sell stored gas during non-critical demand seasons;
- Delivered solid fuel and or transportation capacity sales using existing transport - sell coal and coal transportation, using Tampa Electric's existing coal and transportation capacity during periods when it is not needed to serve Tampa Electric's native electric load;
- Asset Management Agreement ("AMA") outsource optimization functions to a third party through assignment of power, transportation and/or storage rights in exchange for a premium to be paid to Tampa Electric.

Q. Please summarize the activities and results of the Optimization Mechanism for 2019.

A. Tampa Electric participated in the following Optimization Mechanism activities in 2019: wholesale power purchases and sales, gas storage utilization, delivered solid fuel sales, and natural gas storage AMAs. The optimization gains for 2019 were \$6,468,033 which exceeded the \$4,500,000 threshold by \$1,968,033 as shown in my exhibit on schedule "Total Gains Threshold Schedule-Table 1." Customer benefits were \$5,287,213, and company benefits were \$1,180,820 in 2019.

Q. Did Tampa Electric incur incremental Optimization Mechanism costs during 2019?

A. Tampa Electric incurred incremental Optimization Mechanism personnel costs to establish processes and manage these new activities. However, the company agreed that it would not seek recovery of these costs through the Optimization Mechanism if it was approved and therefore has not separately tracked the costs.

Q. Overall, were Tampa Electric's activities under the Optimization Mechanism successful in 2019?

A. Yes, Tampa Electric produced customer gains of \$5,287,213 in the second year of Optimization Mechanism activity.

The company continues to focus on improvements in processes, reporting, and optimization strategies.

The southeast United States experienced mild winter weather. Thus, most of the Optimization Mechanism gains in 2019 were generated in the spring, summer, and fall. Economic wholesale power purchases were the largest contributor of gains in the summer. Additional gains resulted from wholesale power purchases made in the spring during company planned maintenance. Wholesale power sales gains were driven by above normal temperatures in May, June, and October. Natural gas storage AMA gains were consistent throughout the year. Lastly, coal sales contributed solid fuel gains in the first half of the year.

Q. Does this conclude your testimony?

A. Yes, it does.

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2019 FINAL TRUE-UP FOR FUEL &
PURCHASED POWER AND CAPACITY
COST RECOVERY
EXHIBIT NO. _____ (JCH-1)

JOHN C. HEISEY

OPTIMIZATION MECHANISM RESULTS

JANUARY 2019 - DECEMBER 2019

TAMPA ELECTRIC
OPTIMIZATION MECHANISM
Actual for the Period: January 2019 through December 2019

Month Month January February March April		(c)	(4)	(5)	(9)	S	(8)
Month nnuary ebruary farch	Wholesale Sales	Wholesale Purchases		Total	Threshold 1	Threshold 2	Threshold 3
anuary ebruary farch pril	Total Gains (\$)	Total Savings (\$)	Asset Optimization Gains (\$)	Monthly Gains (\$)	Gains ≤ \$4.5 M (\$)	\$4.5M < Gains ≤ \$8.0M (\$)	Gains > \$8.0 M (\$)
ınuary ebruary Aarch Dril				(2) + (3) + (4)			
ebruary 1arch pril	30,782	182,546	29,915	243,243	243,243	•	•
1arch pril	12,277	14,988	38,741	900'99	900'99		•
pril	13,038	714,487	68,565	060'962	796,090	•	'
	27,731	249,015	42,679	319,425	319,425		•
May	194,775	478,506		721,292	721,292	•	'
June	158,620	411,318	33,812	603,750	603,750		•
July	80,113	893,762	106,200	1,080,075	1,080,075		•
August	92,347	718,660	62,762	873,769	670,119	203,650	•
September	165,191	750,225	20,790	936,206	•	936,206	•
October	669,603	(8,439)	21,662	682,826	•	682,826	•
November	42,627	21,573		111,323	•	111,323	•
December	11,582	1,657	20,789	34,028	•	34,028	•
Total	1,498,686	4,428,298	541,049	6,468,033	4,500,000	1,968,033	
			TOTAL GAINS SHARING SCHEDULE-Table 2	SCHEDULE-Table 2			
(1)	(2)	(3)	(4)	(5)	(9)	(2)	(8)
	Threshold 1	Threshold 2	Threshold 2	Threshold 3	Threshold 3	Total	Total
G Month 100%	Gains ≤ \$4.5 M 100% Customer Benefit	\$4.5M < Gains ≤ \$8.0M 40% Customer Benefit	\$4.5M < Gains ≤ \$8.0M 60% TEC Benefit	Gains > \$8.0 M 50% Customer Benefit	Gains > \$8.0 M 50% TEC Benefit	Customer Benefits	TEC
	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)

	(4)	(4)	(4)	(4)	(1)	(4)	(4)
January	243,243					243,243	
February	900'99			•	•	900'99	•
March	796,090		•			296,090	•
April	319,425			•	•	319,425	•
May	721,292			•		721,292	•
June	603,750			•		603,750	•
July	1,080,075		•			1,080,075	•
August	670,119	81,460	122,190	•	•	751,579	122,190
September		374,482	561,724			374,482	561,724
October		273,130	409,696	•		273,130	409,696
November		44,529	66,794			44,529	66,794
December	•	13,611	20,417	•		13,611	20,417
Total	4,500,000	787,213	1,180,820			5,287,213	1,180,820

1,498,686

TAMPA ELECTRIC WHOLESALE POWER DETAIL Actual for the Period: January 2019 through December 2019

Wholesale Sales-Table 3								
(1)	(2)	(3)	(4)	(5)				
		Wholesale	Third Party	Total Net Wholesale				
	Wholesale Sales	Gross Gains	Transmission Costs	Sales Gains				
Month	(MWh)	(\$)	(\$)	(\$)				
				(3) + (4)				
January	3,109	44,672	(13,890)	30,782				
February	1,584	20,586	(8,309)	12,277				
March	1,259	18,993	(5,955)	13,038				
April	1,699	35,682	(7,951)	27,731				
May	12,516	248,698	(53,923)	194,775				
June	8,763	185,420	(26,800)	158,620				
July	4,241	100,143	(20,030)	80,113				
August	9,642	139,656	(47,309)	92,347				
September	14,918	232,019	(66,828)	165,191				
October	57,544	1,027,978	(358,375)	669,603				
November	5,119	68,691	(26,064)	42,627				
December	2,141	24,386	(12,804)	11,582				

2,146,924

(648,238)

122,535

Total

Wholesale Purchases-Table 4						
(1)	(2)	(3)	(4)	(5)		
	Wholesale	Wholesale	Capacity	Total Net Wholesale		
	Purchases	Savings	Purchases	Purchase Gains		
Month	(MWh)	(\$)	(\$)	(\$)		
				(3) + (4)		
January	1,850	182,546	-	182,546		
February	3,585	14,988	-	14,988		
March	28,257	714,487	-	714,487		
April	9,040	249,015	-	249,015		
May	31,740	478,506	-	478,506		
June	181,001	411,318	-	411,318		
July	187,687	893,762	-	893,762		
August	183,457	718,660	-	718,660		
September	178,395	750,225	-	750,225		
October	180,130	(8,439)	-	(8,439)		
November	8,789	21,573	-	21,573		
December	595	1,657	-	1,657		
Total	994,526	4,428,298	-	4,428,298		

REDACTED

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TAMPA ELECTRIC ASSET OPTIMIZATION DETAIL-Table 5 Actual for the Period: January 2019 through December 2019

(1)	(2)	(3)	(4)	(5)
	Natural Gas			Total Asset
	Storage	Natural Gas	Resale of Solid	Optimization
	Optimization	AMA Gains	Fuel	Gains
Month	(\$)	(\$)	(\$)	(\$)
January				29,915
February				38,741
March				68,565
April				42,679
May				48,011
June				33,812
July				106,200
August				62,762
September				20,790
October				21,662
November				47,123
December				20,789
Total	9,784	276,678	254,587	541,049