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December 14, 2017

VIA: ELECTRONIC FILING

Ms. Carlotta S. Stauffer
Commission Clerk
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

Re: Petition by Tampa Electric Company for a limited proceeding to approve First SoBRA Effective September 1, 2018

Dear Ms. Stauffer:

Attached for filing in the above-styled matter are the following:

1. Tampa Electric Company's Petition for Limited Proceeding to Approve First SoBRA Effective September 1, 2018.

2. Prepared Direct Testimony and Exhibit No. _____ (RJR-1) of R. James Rocha.

3. Prepared Direct Testimony and Exhibit No. _____ (WRA-1) of William R. Ashburn.

4. Prepared Direct Testimony and Exhibit No. _____ (MDW-1) of Mark D. Ward.

Thank you for your assistance in connection with this matter.

Sincerely,

J. Jeffry Wahlen

JJW/pp
Attachment

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Petition by Tampa Electric Company For a limited proceeding to approve First SoBRA Effective September 1, 2018	))))	DOCKET NO. 2017 _____-EI FILED: December 14, 2017

TAMPA ELECTRIC COMPANY'S PETITION FOR LIMITED PROCEEDING TO APPROVE FIRST SOBRA EFFECTIVE SEPTEMBER 1, 2018

Consistent with its 2017 Amended and Restated Stipulation and Settlement Agreement and FPSC Order No. PSC-2017-0456-S-EI, issued November 27, 2017, and pursuant to Sections 366.076, 120.57(2) and 366.06(3), Florida Statutes, and Rule 28-106.301, F.A.C., Tampa Electric Company ("Tampa Electric" or "the company"), respectfully petitions the Florida Public Service Commission ("FPSC" or the "Commission") for a limited proceeding to approve its First SoBRA tranche, effective September 1, 2018, as specified herein.

BACKGROUND

On September 27, 2017, Tampa Electric filed a petition in Docket Nos. 20170210-EI and 20160160-EI, seeking approval of the 2017 Amended and Restated Stipulation and Settlement Agreement ("2017 Agreement"). As explained in Docket Nos. 20170210-EI and 20160160-EI, the 2017 Agreement amends and restates the Stipulation and Settlement Agreement ("2013 Agreement") that resolved the issues in Tampa Electric's 2013 base rate case (Docket No. 20130040-EI). Among other things, the 2017 Agreement extended the general base rate freeze included in the 2013 Agreement and replaced the Generation Base Rate Adjustment ("GBRA") mechanism in the 2013 Agreement with a Solar Base Rate Adjustment ("SoBRA") mechanism

that includes a strict cost-effectiveness test and a $1,500 per kilowatt alternating current (kW_{ac}) installed cost cap ("Installed Cost Cap") to protect customers.

The Commission approved the 2017 Agreement by bench vote after an evidentiary hearing on November 6, 2017, which decision was memorialized in Order No. PSC-2017-0456-S-EI, issued November 27, 2017 ("Final Order").

In this Petition, Tampa Electric seeks approval of (a) the first SoBRA tranche specified in subparagraph 6(b) of the 2017 Agreement and (b) the associated tariff changes necessary to implement the First SoBRA. The first SoBRA tranche will provide cost recovery for two (2) solar projects (Balm and Payne Creek) totaling approximately 145 MW that are reasonably expected to be in service on or before September 1, 2018. As explained below, these solar projects, the first SoBRA tranche and the associated tariff changes meet the standards for approval in the 2017 Agreement and should be approved.

I. Preliminary Information

1. The Petitioner's name and address are:

   Tampa Electric Company
   702 North Franklin Street
   Tampa, Florida 33602

2. Any pleading, motion, notice, order or other document required to be served upon Tampa Electric or filed by any party to this proceeding shall be served upon the following individuals:

James D. Beasley
jbeasley@ausley.com
J. Jeffry Wahlen
jwahlen@ausley.com
Ausley McMullen
Post Office Box 391
Tallahassee, FL 32302
(850) 224-9115
(850) 222-7560

Paula K. Brown
Manager, Regulatory Coordination
regdept@tecoenergy.com
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601
(813) 228-1444

3. Tampa Electric, the Petitioner, is an investor-owned electric utility regulated by the Commission pursuant to Chapter 366, Florida Statutes, and is a wholly-owned subsidiary of TECO Energy, Inc., which is a wholly owned subsidiary of Emera, Inc. The company's principal place of business is located at: 702 North Franklin Street, Tampa, Florida 33601.

4. Tampa Electric serves more than 745,000 retail customers in Hillsborough and portions of Polk, Pinellas and Pasco Counties in Florida.

5. This Petition represents an original pleading and is not in response to any proposed action by the Commission. Accordingly, the Petitioner is not responding to any proposed agency action.

II. Approval of the First SoBRA

6. Paragraph 6 of the 2017 Agreement authorizes Tampa Electric to seek recovery of up to 150 MW of new solar generation to be in service on or before September 1, 2018 through a SoBRA. Per the Agreement, the effective date of the First SoBRA tranche can be no earlier than September 1, 2018 and its maximum incremental annual revenue requirement may not exceed $30,600,000, with four months of recovery in 2018 capped at $10,200,000.

7. Subparagraph 6(i) of the 2017 Agreement specifies that the First SoBRA be calculated using Tampa Electric's billing determinants from the company's 2017 ECCR Clause filing for the 12 months of 2018 and the base rate adjustment derived on an annual basis but only applied to bills for the four months from September 2018 through December 2018 and then for the 12 months of 2019. In addition, subparagraph 6(i) specifies that the revenue requirement for each SoBRA shall be allocated to the rate classes using the 12 Coincident Peak ("CP") and 1/13th

Average Demand ("AD") method of allocating production plant and shall be applied to existing base rates, charges and credits using the following principals:

(i) 40 percent of the revenue requirements that would otherwise be allocated to the lighting class under the 12 CP and $1/13^{th}$ AD methodology shall be allocated to the lighting class for recovery through an increase in the lighting base energy rate and the remaining 60 percent shall be allocated ratably to the other customer classes.

(ii) The revenue requirement associated with a SoBRA will be recovered through increases to demand charges where demand charges are part of a rate schedule, and through energy charges where no demand charge is used in a rate schedule.

(iii) Within GSD and IS rate classes, recovery of SoBRA revenue requirements allocated to rate classes will be borne by non-standby demand charges only within a rate class, which methodology will not impact RS and GS rate classes.

8. Subparagraph 6(g) of the 2017 Agreement specifies that the issues for determination in each proceeding for approval of a SoBRA tranche shall be:

(a) the cost-effectiveness of the solar projects in the tranche;

(b) whether the installed cost of each project in the tranche is projected to be under the Installed Cost Cap;

(c) the amount of revenue requirements and appropriate increase in base rates needed to collect the estimated annual revenue requirement for the projects in a tranche;

(d) a true-up of previously approved SoBRAs for the actual cost of the previously approved projects, subject to the sharing provisions in subparagraph 6(m); and

(e) a true-up through the Capacity Cost Recovery Clause ("CCR") of previously approved SoBRAs to reflect the actual in-service dates and actual installed cost for each of the previously approved projects.

9. Subparagraph 6(g) of the 2017 Agreement states that the cost-effectiveness for the projects in a SoBRA tranche shall be evaluated in total by considering only whether the projects in the tranche will lower the company's projected system cumulative present value revenue requirement ("CPVRR") as compared to such CPVRR without the solar projects.

10. Subparagraph 6(l) of the 2017 Agreement specifies that, subject to the revenue requirement limits in subparagraph (b)of the 2017 Agreement, a SoBRA will be calculated using the company's projected installed cost per kW_{ac} for each project in the tranche (subject to the Installed Cost Cap); reasonable estimates for depreciation expense, property taxes and fixed O&M expenses; an incremental capital structure reflecting the then current midpoint ROE and a 54 percent financial equity ratio adjusted to reflect the inclusion of investment tax credits on a normalized basis.

11. Subparagraph 6(d) of the 2017 Agreement specifies that the types of costs of solar projects that traditionally have been allowed in rate base are eligible for cost recovery via a SoBRA, and lists the following types of costs as examples: Engineering, Procurement and Construction ("EPC") costs; development costs including third party development fees, if any; permitting and land acquisition costs; taxes, and utility costs to support or complete development; transmission interconnection costs; installation labor and equipment costs; costs associated with electrical balance of system, structural balance of system, inverters and modules; Allowance for Funds Used During Construction ("AFUDC") at the weighted average cost of capital from Exhibit A of the 2017 Agreement; and other traditionally allowed costs. Paragraph

6(m) of the 2017 Agreement creates a mechanism intended to induce the company to build solar project at the lowest possible installed cost.

12. The First SoBRA tranche consists of two projects. The Payne Creek project will be 70.3 MW and will be located in Polk County, Florida. The Balm project will be 74.4 MW and will be located in Hillsborough County, Florida. Both projects are projected to be in service on or before September 1, 2018. The details of these projects are outlined in Appendix "A" to this Petition.

13. Together, the two projects will lower the company's projected system cumulative present value revenue requirement "CPVRR" as compared to such CPVRR without the solar projects; therefore, the projects are cost-effective.

14. The projected installed cost for the Payne Creek and Balm projects are $1,324 and $ 1,480 per $kW_{ac,}$, respectively, and are below the $1,500 per kW_{ac} installed cost cap specified in subparagraph 6(d) of the 2017 Agreement.

15. Based on the standards specified in the 2017 Agreement, the projected annual revenue requirement for the two projects is $26,493,000, which is lower than the annual revenue requirement cap specified in the 2017 Agreement. The four (4) month recovery amount for the two projects in 2018 is $8,831,000, which is also below the cap specified in the 2017 Agreement.

16. The appropriate increase in base rates needed to collect the estimated revenue requirement for the projects in the First SoBRA, which were prepared based on the cost of service and rate design standards in the 2017 Agreement, are specified in the typical bill analysis included in Appendix "B", proposed redlined tariff sheets included in Appendix "C" and proposed clean tariff sheets included in Appendix "D" to this Petition.

17. This is the First SoBRA tranche, so there are no previous SoBRAs to be trued up.

III. Statement of No Disputed Issue of Material Fact

18. Tampa Electric believes that there are no disputed issues of material fact that must be resolved in order for the Commission to grant this Petition and approve the First SoBRA.

IV. Statement of Ultimate Facts Alleged and Providing the Basis for Relief

19. The ultimate facts that entitle Tampa Electric to the relief requested herein, i.e., approval of the First SoBRA tranche are:

(a) The Commission approved the 2017 Agreement by bench decision on November 6, 2017 in Docket No. 20170210-EI, which decision is reduced to writing and memorialized in the Final Order, and the applicable provisions in the 2017 Agreement specified above.

(b) The facts alleged in paragraphs 6 through 17, above.

20. Tampa Electric is entitled to the relief requested pursuant to the 2017 Agreement, the Final Order, Chapter 366, Florida Statutes, and Chapter 120, Florida Statutes.

V. Effective Date, Notice, and Final Hearing

21. Tampa Electric requests that the Commission provide public notice of this Petition for the approval of the first SoBRA tranche and set the Petition for approval of the First SoBRA for final hearing. Tampa Electric asks that the Commission's consideration of the proposed SoBRA be decided by bench vote at the conclusion of the requested final hearing.

22. Tampa Electric requests that the Commission proceed expeditiously to issue the public notice of the hearing of this Petition for approval of the company's First SoBRA and set the date for the requested final hearing at least fourteen (14) days after issuance of the public notice of the hearing consistent with Rule 28-106.302(2), F.A.C. As reflected in the 2017 Agreement, it is the Parties' intent that the tariff sheets reflected in Appendix "C" and Appendix "D "to this petition become effective September 1, 2018. Accordingly, Tampa Electric

respectfully requests that the final hearing be set not later than March 31, 2018, such that the new and revised rates and tariffs can be implemented with the first billing cycle of September 2018.

23. In the alternative, because Tampa Electric is filing the proposed amended tariff sheets for approval, this Petition should be considered by the Commission as a "file and suspend" rate filing pursuant to Section 366.06(3), Florida Statutes. Accordingly, if the Commission does not set a final hearing such that the First SoBRA will be approved by September 1, 2018, Tampa Electric respectfully requests that the Commission authorize the implementation of Tampa Electric's tariff sheet changes, effective with the first billing cycle of September 2018, subject to refund, pending the outcome of the final hearing.

VI. Conclusion

24. For all the reasons provided in this Petition, and the supporting 2017 Agreement, complete with amended tariff sheets and other appendices filed with this Petition, Tampa Electric respectfully requests that the Commission promptly schedule the consideration of the company's First SoBRA tranche for final hearing, grant this Petition, and approve the First SoBRA and related proposed tariff sheets pursuant to Section 366.076(1), Florida Statutes.

DATED this 14th day of December, 2017

Respectfully submitted,

JAMES D. BEASLEY
J. JEFFRY WAHLEN
Ausley McMullen
Post Office Box 391
Tallahassee, Florida 32302
(850) 224-9115

ATTORNEYS FOR TAMPA ELECTRIC COMPANY

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of the foregoing Petition, filed on behalf of Tampa Electric Company, has been furnished by electronic mail on this 14th day of December, 2017 to the following:

Office of Public Counsel
J. R. Kelly
Public Counsel
Charles Rehwinkel
Associate Public Counsel
c/o The Florida Legislature
111 West Madison Street, Room 812
Tallahassee, FL 32399-1400

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Mr. Robert Scheffel Wright
Gardner, Bist, Wiener, Wadsworth,
Bowden, Bush, Dee, LaVia & Wright, P.A.
1300 Thomaswood Drive
Tallahassee, FL 32308

ATTORNEY

APPENDIX "A"

TRANCHE ONE SOLAR PROJECT SPECIFICATIONS

Payne Creek Solar Project Specifications

Specifications of Proposed Solar PV Generating Facilities

(1)	Plant Name and Unit Number	Payne Creek Solar
(2)	Net Capability	70.3 MW_{ac}
(3)	Technology Type	Single Axis Tracking Solar PV
(4)	Anticipated Construction Timing	
	A. Field Construction Start Date	July 2017
	B. Commercial In-Service Date	September 2018
(5)	Fuel	
	A. Primary Fuel	Solar
	B. Alternate Fuel	N/A
(6)	Air Pollution Control Strategy	N/A
(7)	Cooling Method	N/A
(8)	Total Site Area	+500 Acres
(9)	Construction Status	Planned
(10)	Certification Status	N/A
(11)	Status with Federal Agencies	N/A
(12)	Projected Unit Performance Data	
	Planned Outage Factor (POF)	0.0
	Forced Outage Factor (FOF)	0.0
	Equivalent Availability Factor (EAF)	N/A
	Resulting Capacity Factor (2018)	26.3
	Average Net Operating Heat Rate (ANOHR) [1]	N/A
(13)	Projected Unit Financial Data	
	Book Life (Years)	30
	Total Installed Cost (In-Service Year $/kW) [1]	1,324
	Direct Construction Cost ($/kW)	1,293
	AFUDC Amount ($/kW) [2]	31
	Escalation ($/kW)	N/A
	Fixed O&M ($/kW – yr)	7.16
	Variable O&M ($/MWh)	0.0
	K-Factor [3]	1.13

1 Includes interconnect, AFUDC, land, w/o incentive
2 Based on the current AFUDC rate of 6.46%
3 W/o land

Balm Solar Project Specifications

Specifications of Proposed Solar PV Generating Facilities

(1)	Plant Name and Unit Number	Balm Solar
(2)	Net Capability	74.4 MW_{ac}
(3)	Technology Type	Single Axis Tracking Solar PV
(4)	Anticipated Construction Timing	
	A. Field Construction Start Date	July 2017
	B. Commercial In-Service Date	September 2018
(5)	Fuel	
	A. Primary Fuel	N/A
	B. Alternate Fuel	N/A
(6)	Air Pollution Control Strategy	N/A
(7)	Cooling Method	N/A
(8)	Total Site Area	+544 Acres
(9)	Construction Status	N/A
(10)	Certification Status	N/A
(11)	Status with Federal Agencies	N/A
(12)	Projected Unit Performance Data	
	Planned Outage Factor (POF)	0.0
	Forced Outage Factor (FOF)	0.0
	Equivalent Availability Factor (EAF)	N/A
	Resulting Capacity Factor (2018)	26.3
	Average Net Operating Heat Rate (ANOHR)	N/A
(13)	Projected Unit Financial Data	
	Book Life (Years)	30
	Total Installed Cost (In-Service Year $/kW) [1]	1,480
	Direct Construction Cost ($/kW)	1,450
	AFUDC Amount ($/kW) [2]	29
	Escalation ($/kW)	N/A
	Fixed O&M ($/kW – yr)	7.16
	Variable O&M ($/MWh)	0.0
	K-Factor [3]	1.14

1 Includes interconnect, AFUDC, land w/o incentive
2 Based on the current AFUDC rate of 6.46%
3 W/o land

APPENDIX “B”

TYPICAL BILL ANALYSIS

SOBRA
12CP and 1/13 With 40% Allocation to Lighting
All Demand

SCHEDULE A-2 | FULL REVENUE REQUIREMENTS BILL COMPARISON - TYPICAL MONTHLY BILLS | Page 1 of 4

FLORIDA PUBLIC SERVICE COMMISSION | EXPLANATION: For each rate, calculate typical monthly bills for present rates and proposed rates. | Type of data shown: XX Projected Test year Ended 12/31/2018

COMPANY: TAMPA ELECTRIC COMPANY

RS - RESIDENTIAL SERVICE

	RATE SCHEDULE		BILL UNDER PRESENT RATES							BILL UNDER PROPOSED RATES							INCREASE		COSTS IN CENTS/KWH	
	RS																			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
Line	TYPICAL		BASE	FUEL	ECCR	CAPACITY	ECRC	GRT	TOTAL	BASE	FUEL	ECCR	CAPACITY	ECRC	GRT	TOTAL	DOLLARS	PERCENT	PRESENT	PROPOSED
No.	KW	KWH	RATE	CHARGE	CHARGE	CHARGE	CHARGE	CHARGE		RATE	CHARGE	CHARGE	CHARGE	CHARGE	CHARGE		(16)-(9)	(17)/(9)	(9)/(2)*100	(16)/(2)*100
1	0	-	$ 16.62	$ -	$ -	$ -	$ -	$ 0.43	$ 17.05	$ 16.62	$ -	$ -	$ -	$ -	$ 0.43	$ 17.05	$ -	0.0%	-	-
2																				
3	0	100	$ 21.82	$ 2.82	$ 0.25	$ 0.07	$ 0.34	$ 0.65	$ 25.94	$ 22.01	$ 2.82	$ 0.25	$ 0.07	$ 0.34	$ 0.65	$ 26.14	$ 0.20	0.8%	25.94	26.14
4																				
5	0	250	$ 29.62	$ 7.05	$ 0.62	$ 0.17	$ 0.86	$ 0.98	$ 39.28	$ 30.10	$ 7.05	$ 0.62	$ 0.17	$ 0.86	$ 0.99	$ 39.78	$ 0.50	1.3%	15.71	15.91
6																				
7	0	500	$ 42.62	$ 14.09	$ 1.23	$ 0.33	$ 1.72	$ 1.54	$ 61.52	$ 43.59	$ 14.09	$ 1.23	$ 0.33	$ 1.72	$ 1.56	$ 62.52	$ 0.99	1.6%	12.30	12.50
8																				
9	0	750	$ 55.62	$ 21.14	$ 1.85	$ 0.50	$ 2.57	$ 2.09	$ 83.76	$ 57.07	$ 21.14	$ 1.85	$ 0.50	$ 2.57	$ 2.13	$ 85.25	$ 1.49	1.8%	11.17	11.37
10																				
11	0	1,000	$ 68.62	$ 28.18	$ 2.46	$ 0.66	$ 3.43	$ 2.65	$ 106.00	$ 70.56	$ 28.18	$ 2.46	$ 0.66	$ 3.43	$ 2.70	$ 107.99	$ 1.99	1.9%	10.60	10.80
12																				
13	0	1,250	$ 84.39	$ 37.73	$ 3.08	$ 0.83	$ 4.29	$ 3.34	$ 133.64	$ 86.54	$ 37.73	$ 3.08	$ 0.83	$ 4.29	$ 3.40	$ 135.85	$ 2.21	1.7%	10.69	10.87
14																				
15	0	1,500	$ 100.16	$ 47.27	$ 3.69	$ 0.99	$ 5.15	$ 4.03	$ 161.29	$ 102.53	$ 47.27	$ 3.69	$ 0.99	$ 5.15	$ 4.09	$ 163.72	$ 2.43	1.5%	10.75	10.91
16																				
17	0	2,000	$ 131.70	$ 66.36	$ 4.92	$ 1.32	$ 6.86	$ 5.41	$ 216.57	$ 134.50	$ 66.36	$ 4.92	$ 1.32	$ 6.86	$ 5.49	$ 219.44	$ 2.87	1.3%	10.83	10.97
18																				
19	0	3,000	$ 194.78	$ 104.54	$ 7.38	$ 1.98	$ 10.29	$ 8.18	$ 327.15	$ 198.43	$ 104.54	$ 7.38	$ 1.98	$ 10.29	$ 8.27	$ 330.90	$ 3.75	1.1%	10.90	11.03
20																				
21	0	5,000	$ 320.94	$ 180.90	$ 12.30	$ 3.30	$ 17.15	$ 13.71	$ 548.30	$ 326.31	$ 180.90	$ 12.30	$ 3.30	$ 17.15	$ 13.85	$ 553.81	$ 5.51	1.0%	10.97	11.08

	PRESENT		PROPOSED	
CUSTOMER CHARGE	16.62	$/Bill	16.62	$/Bill
DEMAND CHARGE	-	$/KW	-	$/KW
ENERGY CHARGE				
0 - 1,000 KWH	5.200	¢/kWH	5.394	¢/kWH
Over 1,000 KWH	6.308	¢/kWH	6.394	¢/kWH
FUEL CHARGE				
0 - 1,000 KWH	2.818	¢/kWH	2.818	¢/kWH
Over 1,000 KWH	3.818	¢/kWH	3.818	¢/kWH
CONSERVATION CHARGE	0.246	¢/kWH	0.246	¢/kWH
CAPACITY CHARGE	0.066	¢/kWH	0.066	¢/kWH
ENVIRONMENTAL CHARGE	0.343	¢/kWH	0.343	¢/kWH

Note: Cost recovery clause factors are the current 2018 factors. 2018 fuel clause factors used for both PRESENT and PROPOSED bills above includes the fuel benefit of Tranche #1 of SoBRA.

Supporting Schedules: E-13c, E-14 Supplement | Recap Schedules:

SOBRA
12CP and 1/13 With 40% Allocation to Lighting
All Demand

SCHEDULE A-2 | FULL REVENUE REQUIREMENTS BILL COMPARISON - TYPICAL MONTHLY BILLS | Page 2 of 4

FLORIDA PUBLIC SERVICE COMMISSION | EXPLANATION: For each rate, calculate typical monthly bills for present rates and proposed rates. | Type of data shown: XX Projected Test year Ended 12/31/2018

COMPANY: TAMPA ELECTRIC COMPANY

GS - GENERAL SERVICE NON-DEMAND

Line No.	RATE SCHEDULE GS (1) TYPICAL KW	(2) TYPICAL KWH	BILL UNDER PRESENT RATES (3) BASE RATE	(4) FUEL CHARGE	(5) ECCR CHARGE	(6) CAPACITY CHARGE	(7) ECRC CHARGE	(8) GRT CHARGE	(9) TOTAL	BILL UNDER PROPOSED RATES (10) BASE RATE	(11) FUEL CHARGE	(12) ECCR CHARGE	(13) CAPACITY CHARGE	(14) ECRC CHARGE	(15) GRT CHARGE	(16) TOTAL	INCREASE (17) DOLLARS (16)-(9)	(18) PERCENT (17)/(9)	COSTS IN CENTS/KWH (19) PRESENT (9)/(2)*100	(20) PROPOSED (16)/(2)*100
1	0	-	$ 19.94	$ -	$ -	$ -	$ -	$ 0.51	$ 20.45	$ 19.94	$ -	$ -	$ -	$ -	$ 0.51	$ 20.45	$ -	0.0%	-	-
2																				
3	0	100	$ 25.49	$ 3.13	$ 0.23	$ 0.06	$ 0.34	$ 0.75	$ 30.01	$ 25.63	$ 3.13	$ 0.23	$ 0.06	$ 0.34	$ 0.75	$ 30.15	$ 0.15	0.5%	30.01	30.15
4																				
5	0	250	$ 33.81	$ 7.83	$ 0.58	$ 0.15	$ 0.86	$ 1.11	$ 44.34	$ 34.17	$ 7.83	$ 0.58	$ 0.15	$ 0.86	$ 1.12	$ 44.70	$ 0.36	0.8%	17.74	17.88
6																				
7	0	500	$ 47.69	$ 15.66	$ 1.16	$ 0.30	$ 1.72	$ 1.71	$ 68.23	$ 48.39	$ 15.66	$ 1.16	$ 0.30	$ 1.72	$ 1.72	$ 68.95	$ 0.73	1.1%	13.65	13.79
8																				
9	0	750	$ 61.56	$ 23.49	$ 1.74	$ 0.45	$ 2.57	$ 2.30	$ 92.11	$ 62.62	$ 23.49	$ 1.74	$ 0.45	$ 2.57	$ 2.33	$ 93.20	$ 1.09	1.2%	12.28	12.43
10																				
11	0	1,000	$ 75.43	$ 31.32	$ 2.32	$ 0.60	$ 3.43	$ 2.90	$ 116.00	$ 76.85	$ 31.32	$ 2.32	$ 0.60	$ 3.43	$ 2.94	$ 117.45	$ 1.45	1.3%	11.60	11.75
12																				
13	0	1,250	$ 89.30	$ 39.15	$ 2.90	$ 0.75	$ 4.29	$ 3.50	$ 139.89	$ 91.08	$ 39.15	$ 2.90	$ 0.75	$ 4.29	$ 3.54	$ 141.71	$ 1.82	1.3%	11.19	11.34
14																				
15	0	1,500	$ 103.18	$ 46.98	$ 3.48	$ 0.90	$ 5.15	$ 4.09	$ 163.77	$ 105.30	$ 46.98	$ 3.48	$ 0.90	$ 5.15	$ 4.15	$ 165.96	$ 2.18	1.3%	10.92	11.06
16																				
17	0	2,000	$ 130.92	$ 62.64	$ 4.64	$ 1.20	$ 6.86	$ 5.29	$ 211.55	$ 133.76	$ 62.64	$ 4.64	$ 1.20	$ 6.86	$ 5.36	$ 214.46	$ 2.91	1.4%	10.58	10.72
18																				
19	0	3,000	$ 186.41	$ 93.96	$ 6.96	$ 1.80	$ 10.29	$ 7.68	$ 307.10	$ 190.66	$ 93.96	$ 6.96	$ 1.80	$ 10.29	$ 7.79	$ 311.46	$ 4.36	1.4%	10.24	10.38
20																				
21	0	5,000	$ 297.39	$ 156.60	$ 11.60	$ 3.00	$ 17.15	$ 12.45	$ 498.19	$ 304.48	$ 156.60	$ 11.60	$ 3.00	$ 17.15	$ 12.64	$ 505.47	$ 7.27	1.5%	9.96	10.11
22																				
23	0	8,500	$ 491.61	$ 266.22	$ 19.72	$ 5.10	$ 29.16	$ 20.82	$ 832.62	$ 503.66	$ 266.22	$ 19.72	$ 5.10	$ 29.16	$ 21.12	$ 844.98	$ 12.36	1.5%	9.80	9.94

	PRESENT	PROPOSED
CUSTOMER CHARGE	19.94 $/Bill	19.94 $/Bill
ENERGY CHARGE	5.549 ¢/kWH	5.691 ¢/kWH
FUEL CHARGE	3.132 ¢/kWH	3.132 ¢/kWH
CONSERVATION CHARGE	0.232 ¢/kWH	0.232 ¢/kWH
CAPACITY CHARGE	0.060 ¢/kWH	0.060 ¢/kWH
ENVIRONMENTAL CHARGE	0.343 ¢/kWH	0.343 ¢/kWH

Note: Cost recovery clause factors are the current 2018 factors. 2018 fuel clause factors used for both PRESENT and PROPOSED bills above includes the fuel benefit of Tranche #1 of SoBRA.

Supporting Schedules: E-13c, E-14 Supplement | Recap Schedules:

SOBRA
12CP and 1/13 With 40% Allocation to Lighting
All Demand

aw | FULL REVENUE REQUIREMENTS BILL COMPARISON - TYPICAL MONTHLY BILLS | Page 3 of 4

FLORIDA PUBLIC SERVICE COMMISSION | EXPLANATION: For each rate, calculate typical monthly bills for present rates and proposed rates. | Type of data shown: XX Projected Test year Ended 12/31/2018

COMPANY: TAMPA ELECTRIC COMPANY

GSD - GENERAL SERVICE DEMAND

	RATE SCHEDULE		BILL UNDER PRESENT RATES							BILL UNDER PROPOSED RATES							INCREASE		COSTS IN CENTS/KWH	
	GSD		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
Line	TYPICAL		KW	KWH	BASE RATE	FUEL CHARGE	ECCR CHARGE	CAPACITY CHARGE	ECRC CHARGE	GRT CHARGE	TOTAL	BASE RATE	FUEL CHARGE	ECCR CHARGE	CAPACITY CHARGE	ECRC CHARGE	GRT CHARGE	TOTAL	DOLLARS (16)-(9)	PERCENT (17)/(9)	PRESENT (9)/(2)*100	PROPOSED (16)/(2)*100
1			75	10,950	$ 762.51	$ 342.95	$ 22.01	$ 5.15	$ 37.45	$ 30.00	$ 1,200.07	$ 781.02	$ 342.95	$ 22.01	$ 5.15	$ 37.45	$ 30.48	$ 1,219.05	$ 18.98	1.6%	10.96	11.13
2			75	19,163	$ 1,138.10	$ 600.17	$ 65.25	$ 15.00	$ 65.54	$ 48.31	$ 1,932.36	$ 1,174.85	$ 600.17	$ 65.25	$ 15.00	$ 65.54	$ 49.25	$ 1,970.06	$ 37.69	2.0%	10.08	10.28
3			75	32,850	$ 1,378.18	$ 1,028.86	$ 65.25	$ 15.00	$ 112.35	$ 66.66	$ 2,666.30	$ 1,414.93	$ 1,028.86	$ 65.25	$ 15.00	$ 112.35	$ 67.60	$ 2,703.99	$ 37.69	1.4%	8.12	8.23
4			75	49,275	$ 1,620.78	$ 1,536.27	$ 65.25	$ 15.00	$ 168.52	$ 87.33	$ 3,493.15	$ 1,658.03	$ 1,536.27	$ 65.25	$ 15.00	$ 168.52	$ 88.28	$ 3,531.35	$ 38.21	1.1%	7.09	7.17
5																						
6			500	73,000	$ 4,895.04	$ 2,286.36	$ 146.73	$ 34.31	$ 249.66	$ 195.18	$ 7,807.28	$ 5,018.41	$ 2,286.36	$ 146.73	$ 34.31	$ 249.66	$ 198.35	$ 7,933.82	$ 126.53	1.6%	10.69	10.87
7			500	127,750	$ 7,398.98	$ 4,001.13	$ 435.00	$ 100.00	$ 436.91	$ 317.23	$ 12,689.24	$ 7,643.98	$ 4,001.13	$ 435.00	$ 100.00	$ 436.91	$ 323.51	$ 12,940.52	$ 251.28	2.0%	9.93	10.13
8			500	219,000	$ 8,999.50	$ 6,859.08	$ 435.00	$ 100.00	$ 748.98	$ 439.55	$ 17,582.11	$ 9,244.50	$ 6,859.08	$ 435.00	$ 100.00	$ 748.98	$ 445.83	$ 17,833.39	$ 251.28	1.4%	8.03	8.14
9			500	328,500	$ 10,616.81	$ 10,241.81	$ 435.00	$ 100.00	$ 1,123.47	$ 577.36	$ 23,094.45	$ 10,865.16	$ 10,241.81	$ 435.00	$ 100.00	$ 1,123.47	$ 583.73	$ 23,349.17	$ 254.72	1.1%	7.03	7.11
10																						
11			2000	292,000	$ 19,480.44	$ 9,145.44	$ 586.92	$ 137.24	$ 998.64	$ 778.17	$ 31,126.85	$ 19,973.92	$ 9,145.44	$ 586.92	$ 137.24	$ 998.64	$ 790.82	$ 31,632.98	$ 506.13	1.6%	10.66	10.83
12			2000	511,000	$ 29,496.18	$ 16,004.52	$ 1,740.00	$ 400.00	$ 1,747.62	$ 1,266.37	$ 50,654.69	$ 30,476.18	$ 16,004.52	$ 1,740.00	$ 400.00	$ 1,747.62	$ 1,291.49	$ 51,659.81	$ 1,005.13	2.0%	9.91	10.11
13			2000	876,000	$ 35,898.28	$ 27,436.32	$ 1,740.00	$ 400.00	$ 2,995.92	$ 1,755.65	$ 70,226.17	$ 36,878.28	$ 27,436.32	$ 1,740.00	$ 400.00	$ 2,995.92	$ 1,780.78	$ 71,231.30	$ 1,005.13	1.4%	8.02	8.13
14			2000	1,314,000	$ 42,367.52	$ 40,967.24	$ 1,740.00	$ 400.00	$ 4,493.88	$ 2,306.89	$ 92,275.52	$ 43,360.92	$ 40,967.24	$ 1,740.00	$ 400.00	$ 4,493.88	$ 2,332.36	$ 93,294.39	$ 1,018.87	1.1%	7.02	7.10
15																						
16																						

		PRESENT					PROPOSED				
17											
18		GSD	GSDT		GSD OPT.		GSD	GSDT		GSD OPT.	
19	CUSTOMER CHARGE	33.24	33.24	$/Bill	33.24	$/Bill	33.24	33.24		33.24	$/Bill
20	DEMAND CHARGE	10.25	-	$/KW	-	$/KW	10.74	-	$/KW	-	$/KW
21	BILLING	-	3.46	$/KW	-	$/KW	-	3.63	$/KW	-	$/KW
22	PEAK	-	6.79	$/KW	-	$/KW	-	7.12	$/KW	-	$/KW
23	ENERGY CHARGE	1.754	-	¢/KWH	6.660	¢/KWH	1.754	-	¢/KWH	6.829	¢/KWH
24	ON-PEAK	-	3.211	¢/KWH	-	¢/KWH	-	3.211	¢/KWH	-	¢/KWH
25	OFF-PEAK	-	1.159	¢/KWH	-	¢/KWH	-	1.159	¢/KWH	-	¢/KWH
26	FUEL CHARGE	3.132	-	¢/KWH	3.132	¢/KWH	3.132	-	¢/KWH	3.132	¢/KWH
27	ON-PEAK		3.330	¢/KWH	-	¢/KWH		3.330	¢/KWH	-	¢/KWH
28	OFF-PEAK		3.047	¢/KWH	-	¢/KWH		3.047	¢/KWH	-	¢/KWH
29	CONSERVATION CHARGE	0.87	0.87	$/KW	0.201	¢/KWH	0.87	0.87	$/KW	0.201	¢/KWH
30	CAPACITY CHARGE	0.20	0.20	$/KW	0.047	¢/KWH	0.20	0.20	$/KW	0.047	¢/KWH
31	ENVIRONMENTAL CHARGE	0.342	0.342	¢/KWH	0.342	¢/KWH	0.342	0.342	¢/KWH	0.342	¢/KWH
32											

33 Notes:
34 A. The kWh for each kW group is based on 20, 35, 60, and 90% load factors (LF).
35 B. Charges at 20% LF are based on the GSD Option rate; 35% and 60% LF charges are based on the standard rate; and 90% LF charges are based on the TOD rate.
36 C. All calculations assume meter and service at secondary voltage.
37 D. TOD energy charges assume 25/75 on/off-peak % for 90% LF. Peak demand to billing demand ratios are assumed to be 99% at 90% LF.
38 E. Cost recovery clause factors are the current 2018 factors. 2018 fuel clause factors used for both PRESENT and PROPOSED bills above includes the fuel benefit of Tranche #1 of SoBRA.
39

Supporting Schedules: E-13c, E-14 Supplement | Recap Schedules:

16

SOBRA
12CP and 1/13 with 40% Allocation to Lighting
All Demand

SCHEDULE A-2 | FULL REVENUE REQUIREMENTS BILL COMPARISON - TYPICAL MONTHLY BILLS | Page 4 of 4

FLORIDA PUBLIC SERVICE COMMISSION | EXPLANATION: For each rate, calculate typical monthly bills for present rates and proposed rates. | Type of data shown: XX Projected Test year Ended 12/31/2018

COMPANY: TAMPA ELECTRIC COMPANY

IS - INTERRUPTIBLE SERVICE

	RATE SCHEDULE		BILL UNDER PRESENT RATES								BILL UNDER PROPOSED RATES								INCREASE		COSTS IN CENTS/KWH	
	IS-1																					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)
Line	TYPICAL		BASE	CCV	FUEL	ECCR	CAPACITY	ECRC	GRT		BASE	CCV	FUEL	ECCR	CAPACITY	ECRC	GRT		DOLLARS	PERCENT	PRESENT	FINAL
No.	KW	KWH	RATE	CREDIT	CHARGE	CHARGE	CHARGE	CHARGE	CHARGE	TOTAL	RATE	CREDIT	CHARGE	CHARGE	CHARGE	CHARGE	CHARGE	TOTAL	(16)-(9)	(17)/(9)	(9)/(2)*100	(16)/(2)*100
1	500	127,750	$ 5,038	$ (1,772.75)	$ 3,961.53	$ 335.00	$ 70.00	$ 425.79	$ 207	$ 8,264	$ 5,283	$ (1,772.75)	$ 3,961.53	$ 335.00	$ 70.00	$ 425.41	$ 212.87	$ 8,514.95	$ 251	3.0%	6.47	6.67
2	500	219,000	$ 7,569	$ (3,039.00)	$ 6,791.19	$ 335.00	$ 70.00	$ 729.93	$ 319	$ 12,776	$ 7,814	$ (3,039.00)	$ 6,791.19	$ 335.00	$ 70.00	$ 729.27	$ 325.66	$ 13,026.29	$ 251	2.0%	5.83	5.95
3	500	328,500	$ 10,607	$ (4,558.50)	$ 10,140.80	$ 335.00	$ 70.00	$ 1,093.91	$ 454	$ 18,141	$ 10,852	$ (4,558.50)	$ 10,140.80	$ 335.00	$ 70.00	$ 1,093.91	$ 459.82	$ 18,392.72	$ 251	1.4%	5.52	5.60
4																						
5	1,000	255,500	$ 9,387	$ (3,545.50)	$ 7,923.06	$ 670.00	$ 140.00	$ 851.58	$ 396	$ 15,821	$ 9,877	$ (3,545.50)	$ 7,923.06	$ 670.00	$ 140.00	$ 850.82	$ 408.08	$ 16,323.13	$ 502	3.2%	6.19	6.39
6	1,000	438,000	$ 14,449	$ (6,078.00)	$ 13,582.38	$ 670.00	$ 140.00	$ 1,459.85	$ 621	$ 24,845	$ 14,939	$ (6,078.00)	$ 13,582.38	$ 670.00	$ 140.00	$ 1,458.54	$ 633.64	$ 25,345.79	$ 501	2.0%	5.67	5.79
7	1,000	657,000	$ 20,524	$ (9,117.00)	$ 20,281.59	$ 670.00	$ 140.00	$ 2,187.81	$ 889	$ 35,576	$ 21,014	$ (9,117.00)	$ 20,281.59	$ 670.00	$ 140.00	$ 2,187.81	$ 901.97	$ 36,078.66	$ 503	1.4%	5.41	5.49
8																						
9	5,000	1,277,500	$ 44,177	$ (17,727.50)	$ 39,615.28	$ 3,350.00	$ 700.00	$ 4,257.91	$ 1,907	$ 76,280	$ 46,627	$ (17,727.50)	$ 39,615.28	$ 3,350.00	$ 700.00	$ 4,254.08	$ 1,969.71	$ 78,788.52	$ 2,509	3.3%	5.97	6.17
10	5,000	2,190,000	$ 69,490	$ (30,390.00)	$ 67,911.90	$ 3,350.00	$ 700.00	$ 7,299.27	$ 3,035	$ 121,396	$ 71,940	$ (30,390.00)	$ 67,911.90	$ 3,350.00	$ 700.00	$ 7,292.70	$ 3,097.54	$ 123,901.85	$ 2,506	2.1%	5.54	5.66
11	5,000	3,285,000	$ 99,865	$ (45,585.00)	$ 101,407.95	$ 3,350.00	$ 700.00	$ 10,939.05	$ 4,376	$ 175,053	$ 102,315	$ (45,585.00)	$ 101,407.95	$ 3,350.00	$ 700.00	$ 10,939.05	$ 4,439.15	$ 177,566.16	$ 2,513	1.4%	5.33	5.41
12																						

		PRESENT			PROPOSED		
13		IS	IST		IS	IST	
14	CUSTOMER CHARGE	689.11	689.11	$/Bill	689.11	689.11	$/Bill
15	DEMAND CHARGE	1.61	1.61	$/KW	2.10	2.10	$/KW
16	PEAK DEMAND CHARGE	-	-	$/KW	-	-	$/KW
17	ENERGY CHARGE	2.774	-	¢/kWH	2.774	-	¢/kWH
18	ON-PEAK ENERGY CHARGE	-	2.774	¢/kWH	-	2.774	¢/kWH
19	OFF-PEAK ENERGY CHARGE	-	2.774	¢/kWH	-	2.774	¢/kWH
20	DELIVERY VOLTAGE CREDIT	-	-	$/KW	-	-	$/KW
21	FUEL CHARGE	3.101	-	¢/kWH	3.101	-	¢/kWH
22	ON-PEAK	-	3.297	¢/kWH	-	3.297	¢/kWH
23	OFF-PEAK	-	3.017	¢/kWH	-	3.017	¢/kWH
24	CONSERVATION CHARGE	0.67	0.67	$/KW	0.67	0.67	$/KW
25	CAPACITY CHARGE	0.14	0.14	$/KW	0.14	0.14	$/KW
26	ENVIRONMENTAL CHARGE	0.333	0.333	¢/kWH	0.333	0.333	¢/kWH
27							
28	GSLM-2 CONTRACT CREDIT VALUE	(10.13)	(10.13)	$/kW	(10.13)	(10.13)	$/kW
29							

30 Notes:
31 A. The kWh for each kW group is based on 35, 60, and 90% load factors (LF).
32 B. Charges at 35% and 60% LF are based on standard rates and charges at 90% LF are based on TOD rates. Peak demand to billing demand ratios are assumed to be 99% at 90% LF.
33 C. Calculations assume meter and service at primary voltage and a power factor of 85%.
34 D. TOD energy charges assume 25/75 on/off-peak % for 90% LF.
35 E. CCV credits in columns 5 and 12 are load-factor adjusted and reflect service at primary voltage.
36 F. Cost recovery clause factors are the current 2018 factors. 2018 fuel clause factors used for both PRESENT and PROPOSED bills above includes the fuel benefit of Tranche #1 of SoBRA.
37 G. The present GSLM-2 Contract Credit Value represents the 2018 factor. The proposed GSLM-2 Contract Credit Value for 2018 is the same.
38
39

Supporting Schedules: E-13c, E-14 Supplement | Recap Schedules:

APPENDIX "C"

PROPOSED REDLINED TARIFF SHEETS

RESIDENTIAL SERVICE

SCHEDULE: RS

AVAILABLE: Entire service area.

APPLICABLE: To residential consumers in individually metered private residences, apartment units, and duplex units. All energy must be for domestic purposes and should not be shared with or sold to others. In addition, energy used in commonly-owned facilities in condominium and cooperative apartment buildings will qualify for this rate schedule, subject to the following criteria:

1. 100% of the energy is used exclusively for the co-owners' benefit.
2. None of the energy is used in any endeavor which sells or rents a commodity or provides service for a fee.
3. Each point of delivery will be separately metered and billed.
4. A responsible legal entity is established as the customer to whom the Company can render its bills for said service.

Resale not permitted.

Billing charges shall be prorated for billing periods that are less than 25 days or greater than 35 days. If the billing period exceeds 35 days and the billing extension causes energy consumption, based on average daily usage, to exceed 1,000 kWh, the excess consumption will be charged at the lower monthly Energy and Demand Charge.

LIMITATION OF SERVICE: This schedule includes service to single phase motors rated up to 7.5 HP. Three phase service may be provided where available for motors rated 7.5 HP and over.

MONTHLY RATE:

Basic Service Charge:
$16.62

Energy and Demand Charge:

First 1,000 kWh	5.~~200~~394¢ per kWh
All additional kWh	6.~~308~~394¢ per kWh

MINIMUM CHARGE: The Basic Service Charge.

FUEL CHARGE: See Sheet Nos. 6.020 and 6.021.

Continued to Sheet No. 6.031

ISSUED BY: ~~G. L. Gillette~~N. G. Tower,
President

DATE EFFECTIVE: ~~June 5, 2017~~

GENERAL SERVICE - NON DEMAND

SCHEDULE: GS

AVAILABLE: Entire service area.

APPLICABLE: For lighting and power in establishments not classified as residential whose energy consumption has not exceeded 9,000 kWh in any one of the prior twelve (12) consecutive billing periods ending with the current billing period. For any billing period that exceeds 35 days, the energy consumption shall be prorated to that of a 30-day amount for purposes of administering this requirement. Resale not permitted.

CHARACTER OF SERVICE: Single or 3 phase, 60 cycles and approximately 120 volts or higher, at Company's option.

LIMITATION OF SERVICE: All service under this rate shall be furnished through one meter. Standby service permitted on Schedule GST only.

MONTHLY RATE:

Basic Service Charge:

Metered accounts	$19.94
Un-metered accounts	$16.62

Energy and Demand Charge:

5.~~549~~691¢ per kWh

MINIMUM CHARGE: The Basic Service Charge.

EMERGENCY RELAY POWER SUPPLY CHARGE: The monthly charge for emergency relay power supply service shall be 0.167¢ per kWh of billing energy. This charge is in addition to the compensation the customer must make to the Company as a contribution-in-aid of construction.

Continued to Sheet No. 6.051

GENERAL SERVICE - DEMAND

SCHEDULE: GSD

AVAILABLE: Entire service area.

APPLICABLE: To any customer whose energy consumption has exceeded 9,000 kWh in any one of the prior twelve (12) consecutive billing periods ending with the current billing period. Also available to customers with energy consumption at any level below 9,000 kWh per billing period who agree to remain on this rate for at least twelve (12) months. For any billing period that exceeds 35 days, the energy consumption shall be prorated to that of a 30-day amount for purposes of administering this requirement. Resale not permitted.

CHARACTER OF SERVICE: A-C; 60 cycles; 3 phase; at any standard Company voltage.

LIMITATION OF SERVICE: Standby service is permitted only for customers who generate less than 20% of their on-site load requirements or whose generating equipment is used for emergency purposes.

MONTHLY RATE:

STANDARD		OPTIONAL	
Basic Service Charge:		Basic Service Charge:	
Secondary Metering Voltage	$ 33.24	Secondary Metering Voltage	$ 33.24
Primary Metering Voltage	$ 144.03	Primary Metering Voltage	$ 144.03
Subtrans. Metering Voltage	$1,096.82	Subtrans. Metering Voltage	$1,096.82
Demand Charge:		Demand Charge:	
$10.~~25~~ 74 per kW of billing demand		$0.00 per kW of billing demand	
Energy Charge:		Energy Charge:	
1.754¢ per kWh		6.~~660~~829¢ per kWh	

The customer may select either standard or optional. Once an option is selected, the customer must remain on that option for twelve (12) consecutive months.

Continued to Sheet No. 6.081

Continued from Sheet No. 6.081

When a customer under the optional rate takes service at primary voltage, a discount of 0.~~220~~226¢ per kWh will apply. A discount of 0.~~672~~689¢ per kWh will apply when a customer under the optional rate takes service at subtransmission or higher voltage.

EMERGENCY RELAY POWER SUPPLY CHARGE: The monthly charge for emergency relay power supply service shall be 66¢ per kW of billing demand for customers taking service under the standard rate and 0.167¢/kWh for customer taking service under the optional rate. This charge is in addition to the compensation the customer must make to the Company as a contribution-in-aid of construction.

FUEL CHARGE: See Sheet Nos. 6.020 and 6.021.

ENERGY CONSERVATION CHARGE: See Sheet Nos. 6.020 and 6.021.

CAPACITY CHARGE: See Sheet Nos. 6.020 and 6.021.

ENVIRONMENTAL COST RECOVERY CHARGE: See Sheet Nos. 6.020 and 6.021.

FLORIDA GROSS RECEIPTS TAX: See Sheet No. 6.021.

FRANCHISE FEE CHARGE: See Sheet No. 6.021.

PAYMENT OF BILLS: See Sheet No. 6.022.

INTERRUPTIBLE SERVICE
(CLOSED TO NEW BUSINESS AS OF MAY 7, 2009)

SCHEDULE: IS

AVAILABLE: Entire Service Area.

APPLICABLE: To be eligible for service under Rate Schedule IS, a customer must have been taking interruptible service under rate schedules IS-1, IST-1, IS-3, IST-3, SBI-1, or SBI-3 on May 6, 2009 and have signed the Agreement for the Purchase of Industrial Load Management Service under Rate Schedule GSLM-2. When electric service is desired at more than one location, each such location or point of delivery shall be considered as a separate customer. Resale not permitted.

CHARACTER OF SERVICE: The electric energy supplied under this schedule is three phase primary voltage or higher.

LIMITATION OF SERVICE: Standby service is permitted only for customers who generate less than 20% of their on-site load requirements or whose generating equipment is used for emergency purposes.

MONTHLY RATE:

Basic Service Charge:

Primary Metering Voltage	$ 689.11
Subtransmission Metering Voltage	$2,627.94

Demand Charge:
$~~1.61~~2.10 per KW of billing demand

Energy Charge:
2.774¢ per KWH

Continued to Sheet No. 6.086

CONSTRUCTION SERVICE

SCHEDULE: CS

AVAILABLE: Entire service area.

APPLICABLE: Single phase temporary service used primarily for construction purposes.

LIMITATION OF SERVICE: Service is limited to construction poles and services installed under the TUG program. Construction poles are limited to a maximum of 70 amperes at 240 volts for construction poles. Larger (non-TUG) services and three phase service entrances must be served under the appropriate rate schedule, plus the cost of installing and removing the temporary facilities is required.

MONTHLY RATE:
Basic Service Charge: $19.94

Energy and Demand Charge: 5.~~549~~691¢ per kWh

MINIMUM CHARGE: The Basic Service Charge.

FUEL CHARGE: See Sheet Nos. 6.020 and 6.021.

ENERGY CONSERVATION CHARGE: See Sheet Nos. 6.020 and 6.021.

CAPACITY CHARGE: See Sheet Nos. 6.020 and 6.021.

ENVIRONMENTAL COST RECOVERY CHARGE: See Sheet Nos. 6.020 and 6.021.

FLORIDA GROSS RECEIPTS TAX: Sheet No. 6.021.

FRANCHISE FEE CHARGE: See Sheet No. 6.021.

MISCELLANEOUS: A Temporary Service Charge of $260.00 shall be paid upon application for the recovery of costs associated with providing, installing, and removing the company's temporary service facilities for construction poles. Where the Company is required to provide additional facilities other than a service drop or connection point to the Company's existing distribution system, the customer shall also pay, in advance, for the estimated cost of providing, installing and removing such additional facilities, excluding the cost of any portion of these facilities which will remain as a part of the permanent service.

PAYMENT OF BILLS: See Sheet No. 6.022.

TIME-OF-DAY
GENERAL SERVICE - NON DEMAND
(OPTIONAL)

SCHEDULE: GST

AVAILABLE: Entire service area.

APPLICABLE: For lighting and power in establishments not classified as residential whose energy consumption has not exceeded 9,000 kWh in any one of the prior twelve (12) consecutive billing periods ending with the current billing period. All of the electric load requirements on the customer's premises must be metered at one (1) point of delivery. For any billing period that exceeds 35 days, the energy consumption shall be prorated to that of a 30-day amount for purposes of administering this requirement. Resale not permitted.

CHARACTER OF SERVICE: Single or 3 phase, 60 cycles and approximately 120 volts or higher, at Company's option.

LIMITATION OF SERVICE: All service under this rate shall be furnished through one meter. Standby service permitted.

MONTHLY RATE:

Basic Service Charge:
$22.16

Energy and Demand Charge:
~~15.188~~14.533¢ per kWh during peak hours
~~1.030~~1.545¢ per kWh during off-peak hours

Continued to Sheet No. 6.321

TIME-OF-DAY
GENERAL SERVICE - DEMAND
(OPTIONAL)

SCHEDULE: GSDT

AVAILABLE: Entire service area.

APPLICABLE: To any customer whose energy consumption has exceeded 9,000 kWh in any one of the prior twelve (12) consecutive billing periods ending with the current billing period. Also available to customers with energy consumption at any level below 9,000 kWh per billing period who agree to remain on this rate for at least twelve (12) months. For any billing period that exceeds 35 days, the consumption shall be prorated to that of a 30-day amount for purposes of administering this requirement. Resale not permitted.

CHARACTER OF SERVICE: A-C; 60 cycles; 3 phase; at any standard Company voltage.

LIMITATION OF SERVICE: Standby service is permitted only for customers who generate less than 20% of their on-site load requirements or whose generating equipment is used for emergency purposes.

MONTHLY RATE:

Basic Service Charge:

Secondary Metering Voltage	$ 33.24
Primary Metering Voltage	$ 144.03
Subtransmission Metering Voltage	$1,096.82

Demand Charge:

$3.~~46~~ 63 per kW of billing demand, plus
$~~6.79~~7.12 per kW of peak billing demand

Energy Charge:

3.211¢ per kWh during peak hours
1.159¢ per kWh during off-peak hours

Continued to Sheet No. 6.331

TIME OF DAY
INTERRUPTIBLE SERVICE
(CLOSED TO NEW BUSINESS AS OF MAY 7, 2009)

SCHEDULE: IST

AVAILABLE: Entire Service Area.

APPLICABLE: To be eligible for service under Rate Schedule IST, a customer must have been taking interruptible service under rate schedules IS-1, IST-1, IS-3, IST-3, SBI-1, or SBI-3 on May 6, 2009 and have signed the Agreement for the Purchase of Industrial Load Management Service under Rate Schedule GSLM-2. When electric service is desired at more than one location, each such location or point of delivery shall be considered as a separate customer. Resale not permitted.

CHARACTER OF SERVICE: The electric energy supplied under this schedule is three phase primary voltage or higher.

LIMITATION OF SERVICE: Standby service is permitted only for customers who generate less than 20% of their on-site load requirements or whose generating equipment is used for emergency purposes.

Basic Service Charge:

Primary Metering Voltage	$ 689.11
Subtransmission Metering Voltage	$2,627.94

Demand Charge:
$~~1.61~~2.10 per KW of billing demand

Energy Charge:
2.774¢ per KWH

Continued to Sheet No. 6.345

Continued from Sheet No. 6.560

MONTHLY RATES:
Basic Service Charge: $16.62

Energy and Demand Charges: 5.~~549~~708¢ per kWh (for all pricing periods)

MINIMUM CHARGE: The Basic Service Charge.

FUEL CHARGE: See Sheet Nos. 6.020 and 6.021.

ENERGY CONSERVATION CHARGE: See Sheet Nos. 6.020 and 6.021.

CAPACITY CHARGE: See Sheet Nos. 6.020 and 6.021.

ENVIRONMENTAL COST RECOVERY CHARGE: See Sheet Nos. 6.020 and 6.021.

FLORIDA GROSS RECEIPTS TAX: See Sheet No. 6.021.

FRANCHISE FEE CHARGE: See Sheet No. 6.021.

PAYMENT OF BILLS: See Sheet No. 6.022.

DETERMINATION OF PRICING PERIODS: Pricing periods are established by season for weekdays and weekends. The pricing periods for price levels P_1 (Low Cost Hours), P_2 (Moderate Cost Hours) and P_3 (High Cost Hours) are as follows:

May through October	**P_1**	**P_2**	**P_3**
Weekdays	11 P.M. to 6 A.M.	6 A.M. to 1 P.M. 6 P.M. to 11 P.M.	1 P.M. to 6 P.M.
Weekends	11 P.M. to 6 A.M.	6 A.M. to 11 P.M.	----------

November through April	**P_1**	**P_2**	**P_3**
Weekdays	11 P.M. to 5 A.M.	5 A.M. to 6 A.M. 10 A.M. to 11 P.M.	6 A.M. to 10 A.M.
Weekends	11 P.M. to 6 A.M.	6 A.M. to 11 P.M.	----------

The pricing periods for price level P_4 (Critical Cost Hours) shall be determined at the sole discretion of the Company. Level P_4 hours shall not exceed 134 hours per year.

Continued to Sheet No. 6.570

Continued from Sheet No. 6.600

CHARGES FOR SUPPLEMENTAL SERVICE:

Demand Charge:
$10.~~25~~74 per kW-Month of Supplemental Billing Demand (Supplemental Billing Demand Charge)

Energy Charge:
1.754¢ per Supplemental kWh

DEFINITIONS OF THE USE PERIODS: All time periods stated in clock time. (Meters are programmed to automatically adjust for changes from standard to daylight saving time and vice-versa.)

	April 1 - October 31	November 1 - March 31
Peak Hours: (Monday-Friday)	12:00 Noon - 9:00 PM	6:00 AM - 10:00 AM and 6:00 PM - 10:00 PM

Off-Peak Hours: All other weekday hours, and all hours on Saturdays, Sundays, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day shall be off-peak.

BILLING UNITS:

Demand Units: Metered Demand - The highest measured 30-minute interval kW demand served by the company during the month.

Site Load - The highest kW total of Customer generation plus deliveries by the company less deliveries to the Company, occurring in the same 30-minute interval, during the month.

Normal Generation - The generation level equaled or exceeded by the Customer's generation 10% of the metered intervals during the previous twelve months.

Supplemental Billing Demand - The amount, if any, by which the highest Site Load during any 30-minute interval in the month exceeds Normal Generation, but no greater than Metered Demand.

Continued to Sheet No. 6.602

Continued from Sheet No. 6.605

CHARGES FOR SUPPLEMENTAL SERVICE

Demand Charge:

$3.~~46~~63	per kW-Month of Supplemental Demand (Supplemental Billing Demand Charge), plus
$~~6.79~~7.12	per kW-Month of Supplemental Peak Demand (Supplemental Peak Billing Demand Charge)

Energy Charge:

3.211¢	per Supplemental kWh during peak hours
1.159¢	per Supplemental kWh during off-peak hours

DEFINITIONS OF THE USE PERIODS: All time periods stated in clock time. (Meters are programmed to automatically adjust for changes from standard to daylight saving time and vice-versa.)

	April 1 - October 31	November 1 - March 31
Peak Hours: (Monday-Friday)	12:00 Noon - 9:00 PM	6:00 AM - 10:00 AM and 6:00 PM - 10:00 PM

Off-Peak Hours: All other weekday hours, and all hours on Saturdays, Sundays, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day shall be off-peak.

BILLING UNITS:

Demand Units: Metered Demand - The highest measured 30-minute interval kW demand served by the Company during the month.

Metered Peak Demand - The highest measured 30-minute interval kW demand served by the Company during the peak hours.

Site Load - The highest kW total of Customer generation plus deliveries by the company less deliveries to the company, occurring in the same 30-minute interval, during the month.

Continued to Sheet No. 6.607

INTERRUPTIBLE STANDBY AND SUPPLEMENTAL SERVICE
(CLOSED TO NEW BUSINESS AS OF MAY 7, 2009)

SCHEDULE: SBI

AVAILABLE: Entire service area.

APPLICABLE: Required for all self-generating customers eligible for service under rate schedules IS or IST whose generating capacity in kilowatts (exclusive of emergency generation equipment) exceeds 20% of their site load in kilowatts. Also available to self-generating customers eligible for service under rate schedules IS or IST whose generating capacity in kilowatts does not exceed 20% of their site load in kilowatts, but who agree to all the terms and conditions of this rate schedule. To be eligible for service under this rate schedule, a customer must have been taking interruptible service under rate schedules IS-1, IST-1, IS-3, IST-3, SBI-1, or SBI-3 on May 6, 2009 and have signed the Supplemental Tariff Agreement for the Purchase of Industrial Standby and Supplemental Load Management Rider Service. Resale not permitted.

CHARACTER OF SERVICE: The electric energy supplied under this schedule is three phase primary voltage or higher

LIMITATION OF SERVICE: A customer taking service under this tariff must sign the Tariff Agreement for the Purchase of Standby and Supplemental Service

MONTHLY RATE:

Basic Service Charge:

Primary Metering Voltage	$716.81
Subtransmission Metering Voltage	$2,655.64

Demand Charge:

$~~1.61~~2.10 per KW-Month of Supplemental Demand (Supplemental Demand Charge)
$1.61 per KW-Month of Standby Demand (Local Facilities Reservation Charge)

plus the greater of:
$1.33 per KW-Month of Standby Demand (Power Supply Reservation Charge); or
$0.53 per KW-Day of Actual Standby Billing Demand (Power Supply Demand Charge)

Continued to Sheet No. 6.705

Continued from Sheet No. 6.800

MONTHLY RATE:

High Pressure Sodium Fixture, Maintenance, and Base Energy Charges:

Rate Code		Description	Lamp Size				Charges per Unit ($)			
					kWh				Base Energy[4]	
Dusk to Dawn	Timed Svc.		Initial Lumens[2]	Lamp Wattage[3]	Dusk to Dawn	Timed Svc.	Fixture	Maint.	Dusk to Dawn	Timed Svc.
800	860	Cobra[1]	4,000	50	20	10	3.16	2.48	0.55	0.27
802	862	Cobra/Nema[1]	6,300	70	29	14	3.20	2.11	0.79	0.38
803	863	Cobra/Nema[1]	9,500	100	44	22	3.63	2.33	1.20	0.60
804	864	Cobra[1]	16,000	150	66	33	4.18	2.02	1.80	0.90
805	865	Cobra[1]	28,500	250	105	52	4.87	2.60	2.86	1.42
806	866	Cobra[1]	50,000	400	163	81	5.09	2.99	4.45	2.21
468	454	Flood[1]	28,500	250	105	52	5.37	2.60	2.86	1.42
478	484	Flood[1]	50,000	400	163	81	5.71	3.00	4.45	2.21
809	869	Mongoose[1]	50,000	400	163	81	6.50	3.02	4.45	2.21
509	508	Post Top (PT)[1]	4,000	50	20	10	3.98	2.48	0.55	0.27
570	530	Classic PT[1]	9,500	100	44	22	11.85	1.89	1.20	0.60
810	870	Coach PT[1]	6,300	70	29	14	4.71	2.11	0.79	0.38
572	532	Colonial PT[1]	9,500	100	44	22	11.75	1.89	1.20	0.60
573	533	Salem PT[1]	9,500	100	44	22	9.03	1.89	1.20	0.60
550	534	Shoebox[1]	9,500	100	44	22	8.01	1.89	1.20	0.60
566	536	Shoebox[1]	28,500	250	105	52	8.69	3.18	2.86	1.42
552	538	Shoebox[1]	50,000	400	163	81	9.52	2.44	4.45	2.21

[1] Closed to new business
[2] Lumen output may vary by lamp configuration and age.
[3] Wattage ratings do not include ballast losses.
[4] The Base Energy charges are calculated by multiplying the kWh times the lighting base energy rate of 2.~~727~~743¢ per kWh for each fixture.

Continued to Sheet No. 6.806

ISSUED BY: ~~G. L. Gillette~~N. G. Tower, President

DATE EFFECTIVE: ~~January 16, 2017~~

Continued from Sheet No. 6.805

MONTHLY RATE:

Metal Halide Fixture, Maintenance, and Base Energy Charges:

Rate Code			Lamp Size				Charges per Unit ($)			
					kWh				Base Energy[4]	
Dusk to Dawn	Timed Svc.	Description	Initial Lumens[2]	Lamp Wattage[3]	Dusk to Dawn	Timed Svc.	Fixture	Maint.	Dusk to Dawn	Timed Svc.
704	724	Cobra[1]	29,700	350	138	69	7.53	4.99	3.76	1.88
520	522	Cobra[1]	32,000	400	159	79	6.03	4.01	4.34	2.15
705	725	Flood[1]	29,700	350	138	69	8.55	5.04	3.76	1.88
556	541	Flood[1]	32,000	400	159	79	8.36	4.02	4.34	2.15
558	578	Flood[1]	107,800	1,000	383	191	10.50	8.17	10.44	5.21
701	721	General PT[1]	12,000	150	67	34	10.60	3.92	1.83	0.93
574	548	General PT[1]	14,400	175	74	37	10.89	3.73	2.02	1.01
700	720	Salem PT[1]	12,000	150	67	34	9.33	3.92	1.83	0.93
575	568	Salem PT[1]	14,400	175	74	37	9.38	3.74	2.02	1.01
702	722	Shoebox[1]	12,000	150	67	34	7.22	3.92	1.83	0.93
564	549	Shoebox[1]	12,800	175	74	37	7.95	3.70	2.02	1.01
703	723	Shoebox[1]	29,700	350	138	69	9.55	4.93	3.76	1.88
554	540	Shoebox[1]	32,000	400	159	79	10.02	3.97	4.34	2.15
576	577	Shoebox[1]	107,800	1,000	383	191	16.50	8.17	10.44	5.21

[1] Closed to new business
[2] Lumen output may vary by lamp configuration and age.
[3] Wattage ratings do not include ballast losses.
[4] The Base Energy charges are calculated by multiplying the kWh times the lighting base energy rate of 2.~~727~~743¢ per kWh for each fixture.

Continued to Sheet No. 6.808

Continued from Sheet No. 6.806

MONTHLY RATE:

LED Fixture, Maintenance, and Base Energy Charges:

Rate Code		Description	Size				Charges per Unit ($)			
					kWh[1]				Base Energy[3]	
Dusk to Dawn	Timed Svc.		Initial Lumens[1]	Lamp Wattage[2]	Dusk to Dawn	Timed Svc.	Fixture	Maintenance	Dusk to Dawn	Timed Svc.
828	848	Roadway	5,155	56	20	10	7.27	1.74	0.55	0.27
820	840	Roadway	7,577	103	36	18	11.15	1.19	0.98	0.49
821	841	Roadway	8,300	106	37	19	11.15	1.20	1.01	0.52
829	849	Roadway	15,285	157	55	27	11.10	2.26	1.50	0.74
822	842	Roadway	15,300	196	69	34	14.58	1.26	1.88	0.93
823	843	Roadway	14,831	206	72	36	16.80	1.38	1.96	0.98
835	855	Post Top	5,176	60	21	11	16.53	2.28	0.57	0.30
824	844	Post Top	3,974	67	24	12	19.67	1.54	0.65	0.33
825	845	Post Top	6,030	99	35	17	20.51	1.56	0.95	0.46
836	856	Post Top	7,360	100	35	18	16.70	2.28	0.95	0.49
830	850	Area-Lighter	14,100	152	53	27	14.85	2.51	1.45	0.74
826	846	Area-Lighter	13,620	202	71	35	19.10	1.41	1.94	0.95
827	847	Area-Lighter	21,197	309	108	54	20.60	1.55	2.95	1.47
831	851	Flood	22,122	238	83	42	15.90	3.45	2.26	1.15
832	852	Flood	32,087	359	126	63	19.16	4.10	3.44	1.72
833	853	Mongoose	24,140	245	86	43	14.71	3.04	2.35	1.17
834	854	Mongoose	32,093	328	115	57	16.31	3.60	3.14	1.55

[1] Average
[2] Average wattage. Actual wattage may vary by up to +/- 5 watts.
[3] The Base Energy charges are calculated by multiplying the kWh times the lighting base energy rate of 2.~~727~~743¢ per kWh for each fixture.

Continued to Sheet No. 6.810

Continued from Sheet No. 6.810

Miscellaneous Facilities Charges:

Rate Code	Description	Monthly Facility Charge	Monthly Maintenance Charge
563	Timer	$7.54	$1.43
569	PT Bracket (accommodates two post top fixtures)	$4.27	$0.06

NON-STANDARD FACILITIES AND SERVICES:

The customer shall pay all costs associated with additional company facilities and services that are not considered standard for providing lighting service, including but not limited to, the following:

1. relays;
2. distribution transformers installed solely for lighting service;
3. protective shields;
4. bird deterrent devices;
5. light trespass shields;
6. light rotations;
7. light pole relocations;
8. devices required by local regulations to control the levels or duration of illumination including associated planning and engineering costs;
9. removal and replacement of pavement required to install underground lighting cable; and
10. directional boring.

MINIMUM CHARGE: The monthly charge.

FUEL CHARGE: See Sheet Nos. 6.020 and 6.021.

ENERGY CONSERVATION CHARGE: See Sheet Nos. 6.020 and 6.021.

CAPACITY CHARGE: See Sheet Nos. 6.020 and 6.021

ENVIRONMENTAL COST RECOVERY CHARGE: See Sheet Nos. 6.020 and 6.021

FLORIDA GROSS RECEIPTS TAX: See Sheet No. 6.021

FRANCHISE FEE: See Sheet No. 6.021

PAYMENT OF BILLS: See Sheet No. 6.022

SPECIAL CONDITIONS:
On customer-owned public street and highway lighting systems not subject to other rate schedules, the monthly rate for energy served at primary or secondary voltage, at the company's option, shall be 2.~~727~~743¢ per kWh of metered usage, plus a Basic Service Charge of $11.62 per month and the applicable additional charges as specified on Sheet Nos. 6.020 and 6.021.

Continued to Sheet No. 6.820

APPENDIX “D”

PROPOSED CLEAN TARIFF SHEETS

RESIDENTIAL SERVICE

SCHEDULE: RS

AVAILABLE: Entire service area.

APPLICABLE: To residential consumers in individually metered private residences, apartment units, and duplex units. All energy must be for domestic purposes and should not be shared with or sold to others. In addition, energy used in commonly-owned facilities in condominium and cooperative apartment buildings will qualify for this rate schedule, subject to the following criteria:

1. 100% of the energy is used exclusively for the co-owners' benefit.
2. None of the energy is used in any endeavor which sells or rents a commodity or provides service for a fee.
3. Each point of delivery will be separately metered and billed.
4. A responsible legal entity is established as the customer to whom the Company can render its bills for said service.

Resale not permitted.

Billing charges shall be prorated for billing periods that are less than 25 days or greater than 35 days. If the billing period exceeds 35 days and the billing extension causes energy consumption, based on average daily usage, to exceed 1,000 kWh, the excess consumption will be charged at the lower monthly Energy and Demand Charge.

LIMITATION OF SERVICE: This schedule includes service to single phase motors rated up to 7.5 HP. Three phase service may be provided where available for motors rated 7.5 HP and over.

MONTHLY RATE:

Basic Service Charge:
$16.62

Energy and Demand Charge:

First 1,000 kWh	5.394¢ per kWh
All additional kWh	6.394¢ per kWh

MINIMUM CHARGE: The Basic Service Charge.

FUEL CHARGE: See Sheet Nos. 6.020 and 6.021.

Continued to Sheet No. 6.031

GENERAL SERVICE - NON DEMAND

SCHEDULE: GS

AVAILABLE: Entire service area.

APPLICABLE: For lighting and power in establishments not classified as residential whose energy consumption has not exceeded 9,000 kWh in any one of the prior twelve (12) consecutive billing periods ending with the current billing period. For any billing period that exceeds 35 days, the energy consumption shall be prorated to that of a 30-day amount for purposes of administering this requirement. Resale not permitted.

CHARACTER OF SERVICE: Single or 3 phase, 60 cycles and approximately 120 volts or higher, at Company's option.

LIMITATION OF SERVICE: All service under this rate shall be furnished through one meter. Standby service permitted on Schedule GST only.

MONTHLY RATE:

Basic Service Charge:

Metered accounts	$19.94
Un-metered accounts	$16.62

Energy and Demand Charge:
5.691¢ per kWh

MINIMUM CHARGE: The Basic Service Charge.

EMERGENCY RELAY POWER SUPPLY CHARGE: The monthly charge for emergency relay power supply service shall be 0.167¢ per kWh of billing energy. This charge is in addition to the compensation the customer must make to the Company as a contribution-in-aid of construction.

Continued to Sheet No. 6.051

GENERAL SERVICE - DEMAND

SCHEDULE: GSD

AVAILABLE: Entire service area.

APPLICABLE: To any customer whose energy consumption has exceeded 9,000 kWh in any one of the prior twelve (12) consecutive billing periods ending with the current billing period. Also available to customers with energy consumption at any level below 9,000 kWh per billing period who agree to remain on this rate for at least twelve (12) months. For any billing period that exceeds 35 days, the energy consumption shall be prorated to that of a 30-day amount for purposes of administering this requirement. Resale not permitted.

CHARACTER OF SERVICE: A-C; 60 cycles; 3 phase; at any standard Company voltage.

LIMITATION OF SERVICE: Standby service is permitted only for customers who generate less than 20% of their on-site load requirements or whose generating equipment is used for emergency purposes.

MONTHLY RATE:

STANDARD		OPTIONAL	
Basic Service Charge:		Basic Service Charge:	
Secondary Metering Voltage	$ 33.24	Secondary Metering Voltage	$ 33.24
Primary Metering Voltage	$ 144.03	Primary Metering Voltage	$ 144.03
Subtrans. Metering Voltage	$1,096.82	Subtrans. Metering Voltage	$1,096.82
Demand Charge:		Demand Charge:	
$10.74 per kW of billing demand		$0.00 per kW of billing demand	
Energy Charge:		Energy Charge:	
1.754¢ per kWh		6.829¢ per kWh	

The customer may select either standard or optional. Once an option is selected, the customer must remain on that option for twelve (12) consecutive months.

Continued to Sheet No. 6.081

Continued from Sheet No. 6.081

When a customer under the optional rate takes service at primary voltage, a discount of 0.226¢ per kWh will apply. A discount of 0.689¢ per kWh will apply when a customer under the optional rate takes service at subtransmission or higher voltage.

EMERGENCY RELAY POWER SUPPLY CHARGE: The monthly charge for emergency relay power supply service shall be 66¢ per kW of billing demand for customers taking service under the standard rate and 0.167¢/kWh for customer taking service under the optional rate. This charge is in addition to the compensation the customer must make to the Company as a contribution-in-aid of construction.

FUEL CHARGE: See Sheet Nos. 6.020 and 6.021.

ENERGY CONSERVATION CHARGE: See Sheet Nos. 6.020 and 6.021.

CAPACITY CHARGE: See Sheet Nos. 6.020 and 6.021.

ENVIRONMENTAL COST RECOVERY CHARGE: See Sheet Nos. 6.020 and 6.021.

FLORIDA GROSS RECEIPTS TAX: See Sheet No. 6.021.

FRANCHISE FEE CHARGE: See Sheet No. 6.021.

PAYMENT OF BILLS: See Sheet No. 6.022.

INTERRUPTIBLE SERVICE
(CLOSED TO NEW BUSINESS AS OF MAY 7, 2009)

SCHEDULE: IS

AVAILABLE: Entire Service Area.

APPLICABLE: To be eligible for service under Rate Schedule IS, a customer must have been taking interruptible service under rate schedules IS-1, IST-1, IS-3, IST-3, SBI-1, or SBI-3 on May 6, 2009 and have signed the Agreement for the Purchase of Industrial Load Management Service under Rate Schedule GSLM-2. When electric service is desired at more than one location, each such location or point of delivery shall be considered as a separate customer. Resale not permitted.

CHARACTER OF SERVICE: The electric energy supplied under this schedule is three phase primary voltage or higher.

LIMITATION OF SERVICE: Standby service is permitted only for customers who generate less than 20% of their on-site load requirements or whose generating equipment is used for emergency purposes.

MONTHLY RATE:

Basic Service Charge:

Primary Metering Voltage	$ 689.11
Subtransmission Metering Voltage	$2,627.94

Demand Charge:
$2.10 per KW of billing demand

Energy Charge:
2.774¢ per KWH

Continued to Sheet No. 6.086

CONSTRUCTION SERVICE

SCHEDULE: CS

AVAILABLE: Entire service area.

APPLICABLE: Single phase temporary service used primarily for construction purposes.

LIMITATION OF SERVICE: Service is limited to construction poles and services installed under the TUG program. Construction poles are limited to a maximum of 70 amperes at 240 volts for construction poles. Larger (non-TUG) services and three phase service entrances must be served under the appropriate rate schedule, plus the cost of installing and removing the temporary facilities is required.

MONTHLY RATE:
Basic Service Charge: $19.94

Energy and Demand Charge: 5.691¢ per kWh

.

MINIMUM CHARGE: The Basic Service Charge.

FUEL CHARGE: See Sheet Nos. 6.020 and 6.021.

ENERGY CONSERVATION CHARGE: See Sheet Nos. 6.020 and 6.021.

CAPACITY CHARGE: See Sheet Nos. 6.020 and 6.021.

ENVIRONMENTAL COST RECOVERY CHARGE: See Sheet Nos. 6.020 and 6.021.

FLORIDA GROSS RECEIPTS TAX: Sheet No. 6.021.

FRANCHISE FEE CHARGE: See Sheet No. 6.021.

MISCELLANEOUS: A Temporary Service Charge of $260.00 shall be paid upon application for the recovery of costs associated with providing, installing, and removing the company's temporary service facilities for construction poles. Where the Company is required to provide additional facilities other than a service drop or connection point to the Company's existing distribution system, the customer shall also pay, in advance, for the estimated cost of providing, installing and removing such additional facilities, excluding the cost of any portion of these facilities which will remain as a part of the permanent service.

PAYMENT OF BILLS: See Sheet No. 6.022.

TIME-OF-DAY
GENERAL SERVICE - NON DEMAND
(OPTIONAL)

SCHEDULE: GST

AVAILABLE: Entire service area.

APPLICABLE: For lighting and power in establishments not classified as residential whose energy consumption has not exceeded 9,000 kWh in any one of the prior twelve (12) consecutive billing periods ending with the current billing period. All of the electric load requirements on the customer's premises must be metered at one (1) point of delivery. For any billing period that exceeds 35 days, the energy consumption shall be prorated to that of a 30-day amount for purposes of administering this requirement. Resale not permitted.

CHARACTER OF SERVICE: Single or 3 phase, 60 cycles and approximately 120 volts or higher, at Company's option.

LIMITATION OF SERVICE: All service under this rate shall be furnished through one meter. Standby service permitted.

MONTHLY RATE:

Basic Service Charge:
$22.16

Energy and Demand Charge:
14.533¢ per kWh during peak hours
1.545¢ per kWh during off-peak hours

Continued to Sheet No. 6.321

TIME-OF-DAY
GENERAL SERVICE - DEMAND
(OPTIONAL)

SCHEDULE: GSDT

AVAILABLE: Entire service area.

APPLICABLE: To any customer whose energy consumption has exceeded 9,000 kWh in any one of the prior twelve (12) consecutive billing periods ending with the current billing period. Also available to customers with energy consumption at any level below 9,000 kWh per billing period who agree to remain on this rate for at least twelve (12) months. For any billing period that exceeds 35 days, the consumption shall be prorated to that of a 30-day amount for purposes of administering this requirement. Resale not permitted.

CHARACTER OF SERVICE: A-C; 60 cycles; 3 phase; at any standard Company voltage.

LIMITATION OF SERVICE: Standby service is permitted only for customers who generate less than 20% of their on-site load requirements or whose generating equipment is used for emergency purposes.

MONTHLY RATE:

Basic Service Charge:

Secondary Metering Voltage	$ 33.24
Primary Metering Voltage	$ 144.03
Subtransmission Metering Voltage	$1,096.82

Demand Charge:

$3.63 per kW of billing demand, plus
$7.12 per kW of peak billing demand

Energy Charge:

3.211¢ per kWh during peak hours
1.159¢ per kWh during off-peak hours

Continued to Sheet No. 6.331

TIME OF DAY
INTERRUPTIBLE SERVICE
(CLOSED TO NEW BUSINESS AS OF MAY 7, 2009)

SCHEDULE: IST

AVAILABLE: Entire Service Area.

APPLICABLE: To be eligible for service under Rate Schedule IST, a customer must have been taking interruptible service under rate schedules IS-1, IST-1, IS-3, IST-3, SBI-1, or SBI-3 on May 6, 2009 and have signed the Agreement for the Purchase of Industrial Load Management Service under Rate Schedule GSLM-2. When electric service is desired at more than one location, each such location or point of delivery shall be considered as a separate customer. Resale not permitted.

CHARACTER OF SERVICE: The electric energy supplied under this schedule is three phase primary voltage or higher.

LIMITATION OF SERVICE: Standby service is permitted only for customers who generate less than 20% of their on-site load requirements or whose generating equipment is used for emergency purposes.

Basic Service Charge:

Primary Metering Voltage	$ 689.11
Subtransmission Metering Voltage	$2,627.94

Demand Charge:
$2.10 per KW of billing demand

Energy Charge:
2.774¢ per KWH

Continued to Sheet No. 6.345

Continued from Sheet No. 6.560

MONTHLY RATES:
Basic Service Charge: $16.62

Energy and Demand Charges: 5.708¢ per kWh (for all pricing periods)

MINIMUM CHARGE: The Basic Service Charge.

FUEL CHARGE: See Sheet Nos. 6.020 and 6.021.

ENERGY CONSERVATION CHARGE: See Sheet Nos. 6.020 and 6.021.

CAPACITY CHARGE: See Sheet Nos. 6.020 and 6.021.

ENVIRONMENTAL COST RECOVERY CHARGE: See Sheet Nos. 6.020 and 6.021.

FLORIDA GROSS RECEIPTS TAX: See Sheet No. 6.021.

FRANCHISE FEE CHARGE: See Sheet No. 6.021.

PAYMENT OF BILLS: See Sheet No. 6.022.

DETERMINATION OF PRICING PERIODS: Pricing periods are established by season for weekdays and weekends. The pricing periods for price levels P_1 (Low Cost Hours), P_2 (Moderate Cost Hours) and P_3 (High Cost Hours) are as follows:

May through October	**P_1**	**P_2**	**P_3**
Weekdays	11 P.M. to 6 A.M.	6 A.M. to 1 P.M. 6 P.M. to 11 P.M.	1 P.M. to 6 P.M.
Weekends	11 P.M. to 6 A.M.	6 A.M. to 11 P.M.	----------

November through April	**P_1**	**P_2**	**P_3**
Weekdays	11 P.M. to 5 A.M.	5 A.M. to 6 A.M. 10 A.M. to 11 P.M.	6 A.M. to 10 A.M.
Weekends	11 P.M. to 6 A.M.	6 A.M. to 11 P.M.	----------

The pricing periods for price level P_4 (Critical Cost Hours) shall be determined at the sole discretion of the Company. Level P_4 hours shall not exceed 134 hours per year.

Continued to Sheet No. 6.570

Continued from Sheet No. 6.600

CHARGES FOR SUPPLEMENTAL SERVICE:

Demand Charge:

$10.74 per kW-Month of Supplemental Billing Demand (Supplemental Billing Demand Charge)

Energy Charge:

1.754¢ per Supplemental kWh

DEFINITIONS OF THE USE PERIODS: All time periods stated in clock time. (Meters are programmed to automatically adjust for changes from standard to daylight saving time and vice-versa.)

	April 1 - October 31	November 1 - March 31
Peak Hours: (Monday-Friday)	12:00 Noon - 9:00 PM	6:00 AM - 10:00 AM and 6:00 PM - 10:00 PM

Off-Peak Hours: All other weekday hours, and all hours on Saturdays, Sundays, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day shall be off-peak.

BILLING UNITS:

Demand Units: Metered Demand - The highest measured 30-minute interval kW demand served by the company during the month.

Site Load - The highest kW total of Customer generation plus deliveries by the company less deliveries to the Company, occurring in the same 30-minute interval, during the month.

Normal Generation - The generation level equaled or exceeded by the Customer's generation 10% of the metered intervals during the previous twelve months.

Supplemental Billing Demand - The amount, if any, by which the highest Site Load during any 30-minute interval in the month exceeds Normal Generation, but no greater than Metered Demand.

Continued to Sheet No. 6.602

Continued from Sheet No. 6.605

CHARGES FOR SUPPLEMENTAL SERVICE

Demand Charge:

$3.63	per kW-Month of Supplemental Demand (Supplemental Billing Demand Charge), plus
$7.12	per kW-Month of Supplemental Peak Demand (Supplemental Peak Billing Demand Charge)

Energy Charge:

3.211¢	per Supplemental kWh during peak hours
1.159¢	per Supplemental kWh during off-peak hours

DEFINITIONS OF THE USE PERIODS: All time periods stated in clock time. (Meters are programmed to automatically adjust for changes from standard to daylight saving time and vice-versa.)

	April 1 - October 31	November 1 - March 31
Peak Hours: (Monday-Friday)	12:00 Noon - 9:00 PM	6:00 AM - 10:00 AM and 6:00 PM - 10:00 PM

Off-Peak Hours: All other weekday hours, and all hours on Saturdays, Sundays, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day shall be off-peak.

BILLING UNITS:

Demand Units: Metered Demand - The highest measured 30-minute interval kW demand served by the Company during the month.

Metered Peak Demand - The highest measured 30-minute interval kW demand served by the Company during the peak hours.

Site Load - The highest kW total of Customer generation plus deliveries by the company less deliveries to the company, occurring in the same 30-minute interval, during the month.

Continued to Sheet No. 6.607

INTERRUPTIBLE STANDBY AND SUPPLEMENTAL SERVICE
(CLOSED TO NEW BUSINESS AS OF MAY 7, 2009)

SCHEDULE: SBI

AVAILABLE: Entire service area.

APPLICABLE: Required for all self-generating customers eligible for service under rate schedules IS or IST whose generating capacity in kilowatts (exclusive of emergency generation equipment) exceeds 20% of their site load in kilowatts. Also available to self-generating customers eligible for service under rate schedules IS or IST whose generating capacity in kilowatts does not exceed 20% of their site load in kilowatts, but who agree to all the terms and conditions of this rate schedule. To be eligible for service under this rate schedule, a customer must have been taking interruptible service under rate schedules IS-1, IST-1, IS-3, IST-3, SBI-1, or SBI-3 on May 6, 2009 and have signed the Supplemental Tariff Agreement for the Purchase of Industrial Standby and Supplemental Load Management Rider Service. Resale not permitted.

CHARACTER OF SERVICE: The electric energy supplied under this schedule is three phase primary voltage or higher

LIMITATION OF SERVICE: A customer taking service under this tariff must sign the Tariff Agreement for the Purchase of Standby and Supplemental Service

MONTHLY RATE:

Basic Service Charge:

Primary Metering Voltage	$716.81
Subtransmission Metering Voltage	$2,655.64

Demand Charge:

$2.10 per KW-Month of Supplemental Demand (Supplemental Demand Charge)
$1.61 per KW-Month of Standby Demand (Local Facilities Reservation Charge)

plus the greater of:
$1.33 per KW-Month of Standby Demand (Power Supply Reservation Charge); or
$0.53 per KW-Day of Actual Standby Billing Demand (Power Supply Demand Charge)

Continued to Sheet No. 6.705

Continued from Sheet No. 6.800

MONTHLY RATE:

High Pressure Sodium Fixture, Maintenance, and Base Energy Charges:

Rate Code		Description	Lamp Size				Charges per Unit ($)			
					kWh				Base Energy[4]	
Dusk to Dawn	Timed Svc.		Initial Lumens[2]	Lamp Wattage[3]	Dusk to Dawn	Timed Svc.	Fixture	Maint.	Dusk to Dawn	Timed Svc.
800	860	Cobra[1]	4,000	50	20	10	3.16	2.48	0.55	0.27
802	862	Cobra/Nema[1]	6,300	70	29	14	3.20	2.11	0.79	0.38
803	863	Cobra/Nema[1]	9,500	100	44	22	3.63	2.33	1.20	0.60
804	864	Cobra[1]	16,000	150	66	33	4.18	2.02	1.80	0.90
805	865	Cobra[1]	28,500	250	105	52	4.87	2.60	2.86	1.42
806	866	Cobra[1]	50,000	400	163	81	5.09	2.99	4.45	2.21
468	454	Flood[1]	28,500	250	105	52	5.37	2.60	2.86	1.42
478	484	Flood[1]	50,000	400	163	81	5.71	3.00	4.45	2.21
809	869	Mongoose[1]	50,000	400	163	81	6.50	3.02	4.45	2.21
509	508	Post Top (PT)[1]	4,000	50	20	10	3.98	2.48	0.55	0.27
570	530	Classic PT[1]	9,500	100	44	22	11.85	1.89	1.20	0.60
810	870	Coach PT[1]	6,300	70	29	14	4.71	2.11	0.79	0.38
572	532	Colonial PT[1]	9,500	100	44	22	11.75	1.89	1.20	0.60
573	533	Salem PT[1]	9,500	100	44	22	9.03	1.89	1.20	0.60
550	534	Shoebox[1]	9,500	100	44	22	8.01	1.89	1.20	0.60
566	536	Shoebox[1]	28,500	250	105	52	8.69	3.18	2.86	1.42
552	538	Shoebox[1]	50,000	400	163	81	9.52	2.44	4.45	2.21

[1] Closed to new business
[2] Lumen output may vary by lamp configuration and age.
[3] Wattage ratings do not include ballast losses.
[4] The Base Energy charges are calculated by multiplying the kWh times the lighting base energy rate of 2.743¢ per kWh for each fixture.

Continued to Sheet No. 6.806

Continued from Sheet No. 6.805

MONTHLY RATE:

Metal Halide Fixture, Maintenance, and Base Energy Charges:

Rate Code		Description	Lamp Size		kWh		Charges per Unit ($)			
									Base Energy[4]	
Dusk to Dawn	Timed Svc.		Initial Lumens[2]	Lamp Wattage[3]	Dusk to Dawn	Timed Svc.	Fixture	Maint.	Dusk to Dawn	Timed Svc.
704	724	Cobra[1]	29,700	350	138	69	7.53	4.99	3.76	1.88
520	522	Cobra[1]	32,000	400	159	79	6.03	4.01	4.34	2.15
705	725	Flood[1]	29,700	350	138	69	8.55	5.04	3.76	1.88
556	541	Flood[1]	32,000	400	159	79	8.36	4.02	4.34	2.15
558	578	Flood[1]	107,800	1,000	383	191	10.50	8.17	10.44	5.21
701	721	General PT[1]	12,000	150	67	34	10.60	3.92	1.83	0.93
574	548	General PT[1]	14,400	175	74	37	10.89	3.73	2.02	1.01
700	720	Salem PT[1]	12,000	150	67	34	9.33	3.92	1.83	0.93
575	568	Salem PT[1]	14,400	175	74	37	9.38	3.74	2.02	1.01
702	722	Shoebox[1]	12,000	150	67	34	7.22	3.92	1.83	0.93
564	549	Shoebox[1]	12,800	175	74	37	7.95	3.70	2.02	1.01
703	723	Shoebox[1]	29,700	350	138	69	9.55	4.93	3.76	1.88
554	540	Shoebox[1]	32,000	400	159	79	10.02	3.97	4.34	2.15
576	577	Shoebox[1]	107,800	1,000	383	191	16.50	8.17	10.44	5.21

[1] Closed to new business
[2] Lumen output may vary by lamp configuration and age.
[3] Wattage ratings do not include ballast losses.
[4] The Base Energy charges are calculated by multiplying the kWh times the lighting base energy rate of 2.743¢ per kWh for each fixture.

Continued to Sheet No. 6.808

Continued from Sheet No. 6.806

MONTHLY RATE:

LED Fixture, Maintenance, and Base Energy Charges:

Rate Code		Description	Size				Charges per Unit ($)			
					kWh[1]				Base Energy[3]	
Dusk to Dawn	Timed Svc.		Initial Lumens[1]	Lamp Wattage[2]	Dusk to Dawn	Timed Svc.	Fixture	Maintenance	Dusk to Dawn	Timed Svc.
828	848	Roadway	5,155	56	20	10	7.27	1.74	0.55	0.27
820	840	Roadway	7,577	103	36	18	11.15	1.19	0.98	0.49
821	841	Roadway	8,300	106	37	19	11.15	1.20	1.01	0.52
829	849	Roadway	15,285	157	55	27	11.10	2.26	1.50	0.74
822	842	Roadway	15,300	196	69	34	14.58	1.26	1.88	0.93
823	843	Roadway	14,831	206	72	36	16.80	1.38	1.96	0.98
835	855	Post Top	5,176	60	21	11	16.53	2.28	0.57	0.30
824	844	Post Top	3,974	67	24	12	19.67	1.54	0.65	0.33
825	845	Post Top	6,030	99	35	17	20.51	1.56	0.95	0.46
836	856	Post Top	7,360	100	35	18	16.70	2.28	0.95	0.49
830	850	Area-Lighter	14,100	152	53	27	14.85	2.51	1.45	0.74
826	846	Area-Lighter	13,620	202	71	35	19.10	1.41	1.94	0.95
827	847	Area-Lighter	21,197	309	108	54	20.60	1.55	2.95	1.47
831	851	Flood	22,122	238	83	42	15.90	3.45	2.26	1.15
832	852	Flood	32,087	359	126	63	19.16	4.10	3.44	1.72
833	853	Mongoose	24,140	245	86	43	14.71	3.04	2.35	1.17
834	854	Mongoose	32,093	328	115	57	16.31	3.60	3.14	1.55

[1] Average
[2] Average wattage. Actual wattage may vary by up to +/- 5 watts.
[3] The Base Energy charges are calculated by multiplying the kWh times the lighting base energy rate of 2.743¢ per kWh for each fixture.

Continued to Sheet No. 6.810

Continued from Sheet No. 6.810

Miscellaneous Facilities Charges:

Rate Code	Description	Monthly Facility Charge	Monthly Maintenance Charge
563	Timer	$7.54	$1.43
569	PT Bracket (accommodates two post top fixtures)	$4.27	$0.06

NON-STANDARD FACILITIES AND SERVICES:

The customer shall pay all costs associated with additional company facilities and services that are not considered standard for providing lighting service, including but not limited to, the following:

1. relays;
2. distribution transformers installed solely for lighting service;
3. protective shields;
4. bird deterrent devices;
5. light trespass shields;
6. light rotations;
7. light pole relocations;
8. devices required by local regulations to control the levels or duration of illumination including associated planning and engineering costs;
9. removal and replacement of pavement required to install underground lighting cable; and
10. directional boring.

MINIMUM CHARGE: The monthly charge.

FUEL CHARGE: See Sheet Nos. 6.020 and 6.021.

ENERGY CONSERVATION CHARGE: See Sheet Nos. 6.020 and 6.021.

CAPACITY CHARGE: See Sheet Nos. 6.020 and 6.021

ENVIRONMENTAL COST RECOVERY CHARGE: See Sheet Nos. 6.020 and 6.021

FLORIDA GROSS RECEIPTS TAX: See Sheet No. 6.021

FRANCHISE FEE: See Sheet No. 6.021

PAYMENT OF BILLS: See Sheet No. 6.022

SPECIAL CONDITIONS:
On customer-owned public street and highway lighting systems not subject to other rate schedules, the monthly rate for energy served at primary or secondary voltage, at the company's option, shall be 2.743¢ per kWh of metered usage, plus a Basic Service Charge of $11.62 per month and the applicable additional charges as specified on Sheet Nos. 6.020 and 6.021.

Continued to Sheet No. 6.820

BEFORE THE

FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 2017___-EI

IN RE: PETITION BY TAMPA ELECTRIC COMPANY FOR A LIMITED PROCEEDING TO APPROVE FIRST SOBRA EFFECTIVE SEPTEMBER 1, 2018

PREPARED DIRECT TESTIMONY AND EXHIBIT

OF

R. JAMES ROCHA

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

PREPARED DIRECT TESTIMONY

OF

R. JAMES ROCHA

Q. Please state your name, address, occupation and employer.

A. My name is R. James Rocha. My business address is 702 N. Franklin Street, Tampa, Florida 33602. I am employed by Tampa Electric Company ("Tampa Electric" or "company") as Director of Generation Asset Strategy. My responsibilities include leading the resource planning group, identifying the need for future resource additions, and analyzing the economic and other operational impacts to Tampa Electric's system associated with the addition of resource options.

Q. Please provide a brief outline of your educational background and business experience.

A. I graduated from the Georgia Institute of Technology with a Bachelor's degree in Nuclear Engineering in 1982 and a Master of Science Degree in Nuclear Engineering in 1983. I earned a Master's degree in Business Administration from the University of Tampa in 1993, and I am a registered

Professional Engineer in the State of Florida.

In 1984, I was employed by Commonwealth Edison Company as a nuclear fuel engineer in the modeling of unit operation. In 1987, I joined Florida Power Corporation and became a resource planning engineer in the Generation Planning Department. In 2000, I became Manager of Financial Analysis at TECO Energy, responsible for business development and asset management. Since 2006, I have held several positions at Tampa Electric responsible for budgeting, business strategies and North American Electric Reliability Corporation ("NERC") Critical Infrastructure Protection ("CIP") and non-CIP NERC compliance.

I have over 30 years of accumulated electric utility experience working in the areas of resource planning, business and financial analysis, and engineering. I was appointed to my current position in December 2011.

Q. Have you previously testified before the Commission?

A. Yes. In 2012, I testified in Docket No. 20120234-EI in support of the company's petition for determination of need of the Polk 2-5 Combined Cycle Conversion Project.

I also served on the company's panel of subject matter experts during the hearing on the 2017 Amended and Restated Stipulation and Settlement Agreement ("2017 Agreement"), held on November 6, 2017.

Q. What are the purposes of your direct testimony?

A. The purpose of my direct testimony is to: (1) describe the provisions in the 2017 Agreement recently approved by the Commission that allow cost recovery of solar generation projects through a Solar Base Rate Adjustment ("SoBRA"); (2) sponsor and explain the calculation of the revenue requirement for the company's SoBRA for the two projects comprising the company's first tranche of solar generation ("First SoBRA") effective September 1, 2018; and (3) demonstrate that the two projects in the company's First SoBRA satisfy the cost-effectiveness test specified in the 2017 Agreement.

Q. Have you prepared an exhibit to support your direct testimony?

A. Yes, Exhibit No. __ (RJR-1) was prepared by me or under my direction and supervision. It consists of the following four (4) documents:

Document No. 1: Demand and Energy Forecast

Document No. 2: Fuel Price Forecast

Document No. 3: Revenue Requirements for First SoBRA

Document No. 4: Cost Effectiveness Test for First SoBRA

Q. How does your testimony relate to the prepared direct testimony of Tampa Electric witnesses Mark D. Ward and William R. Ashburn?

A. Tampa Electric witness Ward's direct testimony describes the two projects (Payne Creek Solar and Balm Solar) for which cost recovery is requested via the company's First SoBRA, as well as their projected in-service dates and installed cost per kilowatt alternating current ("kW_{ac}"). I use the projected installed project cost in witness Ward's direct testimony to calculate the annual revenue requirement for the First SoBRA. The company's cost of service and rate design witness, William R. Ashburn, uses the annual revenue requirement described in my direct testimony to develop the proposed customer rates for the First SoBRA.

2017 Agreement

Q. Please explain the origins of the 2017 Agreement.

A. The 2017 Agreement is an amendment and restatement of the company's Stipulation and Settlement Agreement ("2013 Agreement"), which resolved all of the issues in the company's last general base rate proceeding (Docket No. 20130040-EI).

Therein, among other things, Tampa Electric agreed that the general base rates provided for in the 2013 Stipulation would remain in effect through December 31, 2017 and thereafter until the company's next general base rate case. The 2013 Agreement also specified that Tampa Electric would forego seeking future general base rate increases with an effective date prior to January 1, 2018, except in limited circumstances.

The Florida Public Service Commission ("FPSC" or "Commission") approved the 2013 Agreement and memorialized its decision in Order No. PSC-2013-0443-FOF-EI, issued September 30, 2013 ("2013 Agreement Order").

In late 2016, recognizing that the period in which Tampa Electric agreed to refrain from seeking general base rate increases would expire at the end of 2017, Tampa Electric and Office of Public Counsel ("OPC") began discussing whether the company would be willing and able to (a) refrain

from seeking a general base rate increase beyond December 31, 2017 and (b) extend the terms of the 2013 Agreement for an additional period. During those discussions, OPC requested and Tampa Electric provided extensive financial and other information to OPC regarding its financial condition and future business plans. The Florida Industrial Power Users Group, Florida Retail Federation, Federal Executive Agencies, and West Central Florida Hospital Alliance later joined the discussions and made their own requests for information. As a result of this extensive and time-consuming process, the five Parties reached an agreement with Tampa Electric to extend the 2013 Agreement with limited amendments, subject to Commission approval.

The Commission approved the 2017 Agreement on November 6, 2017 and memorialized its approval in Order No. PSC-2017-0456-S-EI, issued on November 27, 2017.

Q. Please generally describe the 2017 Agreement.

A. The 2017 Agreement amends and restates the 2013 Agreement, extends the general base rate freeze included in the 2013 Stipulation, limits fuel hedging and investments in natural gas reserves, protects customers if federal tax reform

occurs and replaces the Generation Base Rate Adjustment ("GBRA") mechanism in the 2013 Agreement with a SoBRA mechanism.

The SoBRA mechanism in the 2017 Agreement includes a strict cost-effectiveness test and a $1,500 per kW_{ac} installed cost cap ("Installed Cost Cap") to protect customers.

The SoBRA mechanism will enable the company to significantly reduce its carbon emissions profile and its dependence on carbon-based fuels by installing and receiving cost recovery for up to 600 MW of photovoltaic single axis tracking solar generation. This major addition of solar generation will continue the company's transformation into a cleaner, more sustainable energy company, thereby improving fuel diversity and reducing its exposure to financial and other risks associated with burning carbon-based fuels. Because the fuel cost of solar generation is zero, it will provide an important measure of price stability to customers. The 2017 Agreement also allows the company to take maximum advantage of the existing 30 percent solar investment tax credit while the credit remains in effect, as well as bonus depreciation, for the benefit of customers.

Q. What are the key SoBRA cost recovery provisions in the 2017 Agreement?

A. There are several key provisions in the 2017 Agreement. First, subparagraph 6(b) of the 2017 Agreement authorizes Tampa Electric to seek recovery of up to 150 MW of new solar generation to be in-service on or before September 1, 2018 through a SoBRA. Per the 2017 Agreement, the effective date of the First SoBRA can be no earlier than September 1, 2018 and its maximum incremental annual revenue requirement may not exceed $30,600,000, with four months of cost recovery in 2018 capped at $10,200,000.

Second, subparagraph 6(d) of the 2017 Agreement specifies that the installed cost of each individual project to be recovered through a SoBRA may not exceed $1,500 per kW_{ac}. Witness Ward's direct testimony presents the projected installed costs per kW_{ac} for the two projects in the First SoBRA and shows that the projected costs are below this cap.

Third, subparagraph 6(g) of the 2017 Agreement states that the cost-effectiveness for the projects in a SoBRA tranche shall be evaluated in total by considering whether the projects in the tranche will lower the company's projected

system Cumulative Present Value Revenue Requirement ("CPVRR") as compared to such CPVRR without the solar projects.

Fourth, subparagraphs 6(a) through 6(c) of the 2017 Agreement specify that, subject to the revenue requirement limits in subparagraph 6(b) of the 2017 Agreement, the SoBRA will be calculated using the company's projected installed cost per kW_{ac} for each project in the tranche (subject to the Installed Cost Cap); reasonable estimates for depreciation expense, property taxes and fixed O&M expenses; an incremental capital structure reflecting the then current midpoint Return On Equity and a 54 percent equity ratio, adjusted to reflect the inclusion of investment tax credits on a normalized basis.

Fifth, subparagraph 6(d) of the 2017 Agreement specifies that the types of costs of solar projects that traditionally have been allowed in rate base are eligible for cost recovery via a SoBRA, and lists the following types of costs as examples: Engineering, Procurement and Construction ("EPC") costs; development costs including third party development fees, if any; permitting fees and costs; actual land costs and land acquisition costs; taxes; utility costs to support or complete development; transmission

interconnection costs; installation labor and equipment costs; costs associated with electrical balance of system, structural balance of system, inverters, and modules; Allowance for Funds Used During Construction ("AFUDC") at the weighted average cost of capital from Exhibit B of the 2017 Agreement; and other traditionally allowed rate base costs.

Sixth, subparagraph 6(m) of the 2017 Agreement specifies that if the actual installed cost is less than the Installed Cost Cap, the company and customers will share in any beneficial difference with 75 percent going to customers and 25 percent serving as an incentive to the company. If applicable, this incentive will be added to the revenue requirement calculation.

Seventh, Subparagraph 6(j) of the 2017 agreement allows the company to seek recovery of unused capacity in a future petition for approval if the amount of capacity recovered in the SoBRA is below the maximum amount specified in Subparagraphs 6(b) and 6(c). For instance, if the First SoBRA is less than the allowed 150 MW, that difference could be added to the Second SoBRA.

Annual Revenue Requirement

Q. What is the annual revenue requirement for recovering costs associated with the two projects included in the First SoBRA?

A. The annual revenue requirement is $26.493 million. This amount was calculated using the projected installed costs of the two projects (Payne Creek Solar and Balm Solar) in witness Ward's direct testimony and in accordance with the revenue requirement cost recovery provisions of the 2017 Agreement. A summary of the annual revenue requirement calculation is shown in Document No. 3 of my Exhibit No. __ (RJR-1).

Q. Please explain the assumptions used in your analysis.

A. The base assumptions for the calculation are the company's demand and energy forecast shown in Document No. 1 of my exhibit, the fuel forecast shown in Document No. 2 of my exhibit, and the solar property tax exemption. These same assumptions were used in setting Tampa Electric's 2018 cost recovery factors and will be used in its Ten Year Site Plan to be submitted on April 1, 2018. The Investment Tax Credits ("ITC") associated with the First SoBRA were normalized over the thirty-year life of the

assets in accordance with applicable Internal Revenue Service regulations.

These assumptions were included in a model that considered the solar project costs along with the company's incremental capital costs and agreed upon capital structure to arrive at a revenue requirement amount. Tampa Electric used the following capital structure: a 10.25 percent return on common equity using a 54 percent equity ratio and a 4.5 percent long-term debt rate on the remaining 46 percent debt in the capital structure.

Q. Please explain the calculation of the annual revenue requirement for the First SoBRA as presented in Document No. 3 of my Exhibit No. ___ (RJR-1).

A. Using the capital expenditures presented by witness Ward, I calculated the book depreciation and the cost of capital using the capital structure above adjusted for accumulated deferred taxes. I also added property taxes and fixed operating expenses.

Q. Is this a final revenue requirement amount and how are customers protected?

A. No. Subparagraph 6(g) of the 2017 Agreement specifies that this annual revenue requirement amount will be trued up for the actual installed cost and in-service dates of the projects covered by the First SoBRA when it petitions for approval of its Second SoBRA. I did not include a true-up in the calculation of the First SoBRA, because this is the first solar tranche. After the in-service date of a tranche, when the actual costs are known, and contemporaneous with a fuel docket filing, Tampa Electric will include a true-up for each revenue requirement calculation.

Q. Does the annual revenue requirement presented in Exhibit No. ___ (RJR-1) reflect an incentive savings adjustment?

A. Yes. Subparagraph 6(m) of the 2017 Agreement contains an incentive designed to encourage Tampa Electric to build solar projects for recovery under a SoBRA at the lowest possible cost. According to subparagraph 6(m), if Tampa Electric's actual installed cost for a project is less than the Installed Cost Cap, the company's customers and the company will share in the beneficial difference with 75 percent of the difference inuring to the benefit of customers and 25 percent serving as an incentive to the company to seek such cost savings over the life of this

2017 Agreement. The company has included the effect of the incentive in its revenue requirement for the First SoBRA based on projected costs.

Q. Does the 2017 Agreement include an example of how the incentive mechanism would work?

A. Yes. According to subparagraph 6(m), if the actual installed cost of a solar project is $1,400 per kW_{ac}, the final cost to be used for purposes of computing cost recovery under this 2017 Agreement and the true-up of the initial SOBRA would be $1,425 kW_{ac} [0.25 times ($1,500 - $1,400) + $1,400].

Q. What are the incentive calculations for the first tranche based on the company's projected installed costs?

A. Witness Ward projects the installed costs for the Payne Creek Solar and Balm Solar projects to be $1,324 kW_{ac} and $1,480 kW_{ac}, respectively, including interconnect, AFUDC, and land. For the Payne Creek Solar project, the incentive was calculated as [25% x ($1,500 - $1,324) + $1,324 = $1,368]. For the Balm Solar project, the incentive was calculated as [25% x ($1,500 - $1,480) + $1,480 = $1,485]. The total incentive included for both Payne Creek Solar and

Balm Solar was \$44 kW_{ac} and \$5 kW_{ac}, respectively, so that it averages about \$25 kW_{ac}.

Cost-Effectiveness Test

Q. Please describe the cost-effectiveness standard in the 2017 Agreement.

A. Subparagraph 6(g) of the 2017 Agreement states that the cost-effectiveness for the projects in a SoBRA tranche shall be evaluated in total by considering only whether the projects in the tranche will lower the company's projected system CPVRR as compared to such CPVRR without the solar projects.

Q. Have you evaluated the two projects covered by the First SoBRA in light of this cost-effectiveness test?

A. Yes. The two projects covered by the First SoBRA lower the company's projected system CPVRR as compared to such CPVRR without the solar projects; therefore, the projects covered by the First SoBRA satisfy the cost-effectiveness test in the 2017 Agreement. The calculations used to support this conclusion are based on the projected installed costs presented in witness Ward's direct testimony and associated incentive and are contained in Document No. 4 of my exhibit.

Q. Please explain the underlying assumptions used to determine the projected system CPVRR, as reflected in Document No. 4 of your exhibit.

A. In addition to the same assumptions used in the revenue requirement calculation, Tampa Electric developed a reference expansion plan with no solar and a second expansion plan case including the projects of the First SoBRA.

Q. Please explain the projected system CPVRR calculations reflected in Document No. 4.

A. The differential CPVRR is favorable for customers by $143.9 million before any value for reduced emissions is included and $155.9 million when reduced emissions value is included. The CPVRR fuel savings are $205.3 million, averaging $20 million per year. It would be expected that the projects of the First SoBRA, as a zero-variable cost resource generating during the peak of the daylight hours, would show the largest fuel savings. Tampa Electric tested the robustness of these savings to customers by calculating sensitivities on fuel prices and a market price forecast for carbon. The results confirmed that customer savings would occur under all scenarios.

Q. Please discuss other benefits of the First SoBRA tranche, including lower emissions.

A. The two solar projects included in the First SoBRA will decrease carbon dioxide ("CO_2") emissions by over 200,000 tons per year, while in the early years, it will decrease nitrogen oxide ("NO_x") emissions by hundreds of tons per year and sulfur dioxide ("SO_2) emissions by thousands of tons per year. Additionally, the solar projects will result in increased construction jobs and additional property tax revenues for the county. All the while, Tampa Electric will maintain competitive rates for customers which are expected to remain among the lowest of Florida's investor-owned utilities.

Summary

Q. Please summarize your direct testimony.

A. The solar projects of the First SoBRA result in CPVRR savings of $143.9 million, while reducing air emissions and delivering fuel diversity and price stability for customers. The assumptions are reasonable, the methodology sound, and the results comport with the provisions of the 2017 Agreement and the cost-effectiveness standards of the Commission. Tampa

Electric, accordingly, requests approval of the First SoBRA by the Commission.

Q. Does this conclude your direct testimony?

A. Yes, it does.

TAMPA ELECTRIC COMPANY
DOCKET NO. 2017_____-EI
EXHIBIT NO. ___ (RJR-1)

EXHIBIT

OF

R. JAMES ROCHA

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Demand & Energy Forecast

	Winter (MW)	Summer (MW)	Energy (GWh)
2017	3,138	4,080	20,274
2018	4,285	4,126	20,501
2019	4,347	4,175	20,677
2020	4,408	4,227	20,886
2021	4,468	4,281	21,105
2022	4,519	4,328	21,267
2023	4,583	4,384	21,522
2024	4,647	4,441	21,785
2025	4,708	4,497	22,045
2026	4,754	4,536	22,165
2027	4,817	4,594	22,452
2028	4,880	4,652	22,750
2029	4,943	4,710	23,050
2030	5,005	4,762	23,318
2031	5,060	4,812	23,576
2032	5,114	4,862	23,838
2033	5,169	4,913	24,103
2034	5,224	4,965	24,375
2035	5,282	5,018	24,654
2036	5,337	5,069	24,937
2037	5,337	5,069	24,937
2038	5,337	5,069	24,937
2039	5,337	5,069	24,937
2040	5,337	5,069	24,937
2041	5,337	5,069	24,937
2042	5,337	5,069	24,937
2043	5,337	5,069	24,937
2044	5,337	5,069	24,937
2045	5,337	5,069	24,937
2046	5,337	5,069	24,937
2047	5,337	5,069	24,937

Fuel Forecast ($/MMBtu)

	Coal	Natural Gas
2017	2.24	3.51
2018	2.35	3.24
2019	2.72	3.28
2020	3.00	3.58
2021	3.19	3.82
2022	3.23	3.95
2023	3.28	4.22
2024	3.33	4.48
2025	3.37	4.73
2026	3.44	4.98
2027	3.54	5.25
2028	3.76	5.84
2029	3.97	6.11
2030	4.26	6.68
2031	4.34	6.93
2032	4.53	7.50
2033	4.54	7.59
2034	4.70	8.10
2035	4.79	8.42
2036	4.94	8.59
2037	5.12	8.78
2038	5.28	8.96
2039	5.48	9.21
2040	5.67	9.40
2041	5.88	9.65
2042	6.17	10.06
2043	6.50	10.55
2044	6.78	10.90
2045	7.09	11.30
2046	7.42	11.70
2047	7.84	12.28

Revenue Requirements for First SoBRA

145 MW of Solar (Tranche 1)

($000)	2018
Balm Solar	11,201
Payne Creek	11,237
Capital RR	22,438
Balm Solar	533
Payne Creek	503
FOM	1,036
Land RR	2,593
TOTAL RR	26,067

Revenue Requirements for First SOBRA

With Sharing Mechanism

145 MW of Solar (Tranche 1)
with 75%/25% Incentive

($000)	2018
Balm Solar	11,420
Payne Creek	11,444
Capital RR	22,864
Balm Solar	533
Payne Creek	503
FOM	1,036
Land RR	2,593
TOTAL RR	26,493

Cost-Effectiveness Test for First SoBRA

Delta CPVRR (2017 $000)	**Cost/(Savings) ($ millions)**
Capital RR - Other New Units	($138.1)
Capital RR - Solar New Arrays (w/Interconnect)	$167.9
RR of Land for Solar	$31.2
System VOM	($10.1)
FOM - Other Future Units	($5.2)
FOM - Solar Future Arrays	$15.8
System Fuel	($205.3)
Sub Total w/o NO_X or CO_2 Cost	**($143.9)**
Plus Emissions (NO_x and CO_2) Cost/(Savings)	($12.0)
Total w/ NO_X & CO_2 Cost	**($155.9)**

BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 2017_____-EI
IN RE: PETITION BY TAMPA ELECTRIC FOR A LIMITED PROCEEDING TO APPROVE FIRST SOBRA EFFECTIVE SEPTEMBER 1, 2018

PREPARED DIRECT TESTIMONY AND EXHIBIT OF WILLIAM R. ASHBURN

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

PREPARED DIRECT TESTIMONY

OF

WILLIAM R. ASHBURN

Q. Please state your name, address, occupation and employer.

A. My name is William R. Ashburn. My business address is 702 N. Franklin Street, Tampa, Florida 33602. I am employed by Tampa Electric Company ("Tampa Electric" or "company") as Director, Pricing and Financial Analysis.

Q. Please provide a brief outline of your educational background and business experience.

A. I graduated from Creighton University with a Bachelor of Science degree in Business Administration. Upon graduation, I joined Ebasco Business Consulting Company where my consulting assignments included the areas of cost allocation, computer software development, electric system inventory and mapping, cost of service filings and property record development. I joined Tampa Electric in 1983 as a Senior Cost Consultant in the Rates and Customer Accounting Department. At Tampa Electric I have held a series of positions with responsibility for cost

of service studies, rate filings, rate design, implementation of new conservation and marketing programs, customer surveys and various state and federal regulatory filings. In March 2001, I was promoted to my current position of Director, Pricing and Financial Analysis in Tampa Electric's Regulatory Affairs Department. I am a member of the Rate and Regulatory Affairs Committee of the Edison Electric Institute ("EEI").

Q. Have you previously testified before the Commission?

A. Yes. I have testified or filed testimony before this Commission in several dockets. Most recently I testified for Tampa Electric in Docket No. 20170210-EI as a member of a panel of witnesses during the November 6, 2017 hearing on the 2017 Amended and Restated Stipulation and Settlement Agreement ("2017 Agreement"). I also testified on behalf of Tampa Electric in Docket No. 20130040-EI regarding the company's Petition for an Increase in Base Rates and Miscellaneous Service Charges and in Docket No. 20080317-EI which was Tampa Electric's previous base rate proceeding. I testified in Docket No. 20020898-EI regarding a self-service wheeling experiment and in Docket No. 20000061-EI regarding the company's

Commercial/Industrial Service Rider. In Docket Nos. 20000824-EI, 20001148-EI, 20010577-EI and 20020898-EI, I testified at different times for Tampa Electric and as a joint witness representing Tampa Electric, Florida Power & Light Company ("FP&L") and Progress Energy Florida, Inc. ("PEF") regarding rate and cost support matters related to the GridFlorida proposals. In addition, I represented Tampa Electric numerous times at workshops and in other proceedings regarding rate, cost of service and related matters. I have also provided testimony and represented Tampa Electric before the Federal Energy Regulatory Commission ("FERC") in rate and cost of service matters.

Q. What is the purpose of your prepared direct testimony?

A. The purpose of my prepared direct testimony is to: (1) describe the provisions in the 2017 Agreement recently approved by the Commission that govern the cost of service and rate design for a Solar Base Rate Adjustment ("SoBRA") and (2) sponsor and explain the proposed rates and tariffs for the company's First SoBRA, effective September 1, 2018.

Q. Have you prepared an exhibit to support your direct testimony?

A. Yes, Exhibit No. _____ (WRA-1) was prepared under my direction and supervision. It consists of the following six documents:

Document No. 1	Development of First SoBRA Base Revenue Increase by Rate Class
Document No. 2	Base Revenue by Rate Schedule
Document No. 3	Rollup Base Revenue by Rate Class
Document No. 4	Typical Bills Reflecting First SoBRA Base Revenue Increase
Document No. 5	Redlined Tariffs Reflecting First SoBRA Base Revenue Increase
Document No. 6	Clean Tariffs Reflecting First SoBRA Base Revenue Increase

Q. How does your direct testimony relate to the direct testimony of Tampa Electric witnesses Mark D. Ward and R. James Rocha, filed concurrently in this docket?

A. Tampa Electric witness Mark D. Ward's direct testimony describes the two projects (Payne Creek Solar and Balm Solar) for which cost recovery is requested via the company's First SoBRA as well as their projected in-service dates and installed cost per kilowatt alternating current ("KW_{ac}"). Tampa Electric witness R. James Rocha's

direct testimony presents the annual revenue requirement for the company's First SoBRA using the projected installed project costs presented in witness Ward's direct testimony. I use the annual revenue requirement from witness Rocha's direct testimony to develop the proposed base rate adjustment for the First SoBRA.

2017 Agreement Guidance for SoBRA

Q. Please describe how the 2017 Agreement calls for the SoBRA revenue requirements to be allocated to rate classes.

A. The 2017 Agreement directs that the SoBRA revenue requirements be allocated to rate classes using the 12 Coincident Peak ("CP") and 1/13th Average Demand ("AD") method of allocating production plant and be applied to existing base rates, charges and credits as described by the following two principles:

1. Only 40 percent of the revenue requirement that would otherwise be allocated to the lighting rate class under the 12 CP and 1/13th AD methodology shall be allocated to the lighting class through an increase to the lighting base energy rate, and the remaining 60 percent shall be allocated ratably to the other classes.

2. The 12 CP and 1/13th AD allocation factor used to derive the revenue requirement allocation shall be based on factors used in Tampa Electric's then most current energy conservation cost recovery ("ECCR") clause filings with the Commission.

Q. Once the revenue requirement has been allocated to rate classes, how will the SoBRA rates to recover each class's revenue requirement be designed?

A. The 2017 Agreement requires the following three principles be employed when designing the base rate adjustments for SoBRA:

1. The revenue requirement associated with SoBRA will be used to increase demand charges for rate schedules with demand charges and energy charges for rate schedules without demand charges.

2. Within the GSD and IS rate classes, the allocated SoBRA revenue requirement will be applied to non-standby demand charges only.

3. The billing determinants used to derive the base rate adjustments shall be based on factors and

determinants used in Tampa Electric's then most current ECCR clause filings with the Commission.

Q. Do you provide an exhibit that shows the results of applying the allocation methodology called for in the 2017 Agreement?

A. Yes. Document No. 1 of my exhibit was prepared for that purpose. That document, titled "Development of SoBRA Base Revenue Increases by Rate Class," shows how the revenue requirement increase described in witness Rocha's direct testimony was allocated across the rate classes. First, the 12 CP and 1/13th AD allocation factor utilized to set 2018 ECCR clause rates was used to allocate the total revenue requirement increase to all rate classes. Then, the part that was allocated to the Lighting class was split 60/40, with 40 percent recovered from the Lighting class and the remaining 60 percent reallocated to the other rate classes using the same 12 CP and 1/13th AD allocation factor (less the lighting portion). It is important to recognize that the revenue requirement utilized is an annual revenue requirement for the First SoBRA, even though the First SoBRA will not begin until September 2018. Using the annual revenue requirement, then utilizing 12-month total billing determinants

(energy and demand) as the divisor, results in appropriate rates for use in the four remaining months of 2018 during which these rates will be applied to bills.

Q. Does the 2017 Agreement provide for a true-up mechanism to be applied to SoBRA rates?

A. Yes. The 2017 Agreement provides that each SoBRA tranche will be subject to a true-up for the actual cost of the approved project. Once the difference between the estimated and actual costs is known, the true-up amount will be included in the Capacity Cost Recovery Clause rates, with interest applied. In this docket applying to the first tranche, there is no true-up to calculate.

Proposed Rates and Tariffs for SoBRA

Q. Having completed the allocation of the first SoBRA revenue requirement to rate classes, what is the next step to derive the base rate adjustment?

A. Using the methodology called for in the 2017 Agreement described above, certain rates in each rate class were increased to recover the identified revenue requirement.

Q. Do you have exhibits that show the results of that base

rate adjustment design?

A. Yes. Document No. 2 of my exhibit was prepared for that purpose. It uses the E-13c MFR schedule to show the rate changes proposed to recover the SoBRA class revenue requirements by rate and rate schedule. Document No. 3 of my exhibit rolls up the rate schedule amounts to rate class using the E-13a MFR schedule, which then can be compared to Document No. 1 of my exhibit to show how close the rate design comes to collecting the allocated revenue requirements. Finally, Document No. 4 of my exhibit utilizes the A-2 MFR schedule to show the impact of the SoBRA increase on typical RS, GS, GSD and IS bills. This presentation shows only the SoBRA impact since the fuel benefit and impact of the increased CCV and standby generator credits are already included in the present bill calculation through the 2018 Fuel and Conservation Clause rates utilized.

Q. Please explain the fuel impact of the First SoBRA and how that affects rates in 2018.

A. The first tranche of solar generation that will begin service September 1, 2018 is expected to provide fuel savings of approximately $3.3 million during the

remainder of 2018. Those expected fuel savings were included in the 2018 annual fuel cost recovery factors approved by the Commission on October 25, 2017, so the approved fuel factors utilized in the bill comparisons are already lower, for the entire year, as a result of the first tranche of SoBRA solar generation in the 2017 Agreement. The savings represent a $0.17 reduction on the 2018 residential customer 1,000 kWh monthly bill.

Q. Do you have an exhibit that shows the redlined changes to tariff sheets affected by implementation of the First SoBRA?

A. Yes. Document No. 5 of my exhibit was prepared for that purpose.

Q. Do you have an exhibit that shows the clean tariff sheets affected by implementation of the First SoBRA?

A. Yes. Document No. 6 of my exhibit was prepared for that purpose.

Summary

Q. Please summarize your direct testimony.

A. I have performed the cost of service and rate design components of the First SoBRA in accordance with the provisions of the 2017 Agreement. I have also performed rate class allocations and determined the appropriate base rate increases by rate class needed to recover the First SoBRA revenue requirement. The proposed fuel savings and residential customer bill impacts are as shown in my direct testimony. The modified tariff sheets that accompany my direct testimony properly implement the First SoBRA rate adjustments and should be approved by the Commission.

Q. Does this conclude your direct testimony?

A. Yes, it does.

TAMPA ELECTRIC COMPANY
DOCKET NO. 2017_____-EI
EXHIBIT No. _____ (WRA-1)

EXHIBIT

OF

WILLIAM R. ASHBURN

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TAMPA ELECTRIC COMPANY
DOCKET NO. 2017_____-EI
EXHIBIT NO. ___ (WRA-1)
DOCUMENT NO. 1

Development of First

SoBRA Base Revenue Increase

by Rate Class

TAMPA ELECTRIC COMPANY
DEVELOPMENT OF SoBRA BASE REVENUE INCREASE BY RATE CLASS
USING JANUARY 1, 2018 RATES ADJUSTED FOR SoBRA
($000)

150 MW SoBRA Tranche #1
12CP &1/13 - All Demand

Line		Rate Class	(A) Adjusted Revenue Requirement(1)	(B) Present Base Revenue(2)	(C) Base Revenue Deficiency $ (A) - (B)	(D) Base Revenue Deficiency % (C) / (B)	(E) Proposed Base Rev. Increase $	(F) Proposed Base Rev. Increase % (E) / (B)	(G) 2017 Targeted Base Revenue (B) + (E)
1	I.	Residential (RS,RSVP)	$ 662,231	$ 647,455	$ 14,776	2.28%			
2									
3	II.	General Service							
4		Non-Demand (GS,CS)	70,400	69,017	1,383	2.00%			
5									
6									
7		Sub-Total: I. + II.	$ 732,631	$ 716,472	$ 16,159	2.26%	$ 16,159	2.26%	$ 732,631
8									
9									
10	III.	General Service							
11		Demand (GSD, SBF)	362,458	352,952	9,506	2.69%	$ 9,506	2.69%	362,458
12									
13	IV.	Interruptible Service (IS/SBI)	35,074	34,275	799	2.33%	$ 799	2.33%	35,074
15									
16									
19	V.	Lighting (LS-1)							
20		A. - Energy	$ 5,238	5,208	30	0.57%	$ 30	0.57%	$ 5,238
21		B. - Facilities	43,545	43,545	-	0.00%	$ -	0.00%	$ 43,545
22									
23									
24		Total	$ 1,178,945	$ 1,152,452	$ 26,493	2.30%	$ 26,493	2.30%	$ 1,178,945
25									
26				$ 26,493					
27									

28 (1) The Adjusted Revenue Requirement column reflects an increase of $26.493 million annual SoBRA revenues based on each class' percentage of 12 CP & 1/13th allocator plus an 40% allocation to lighting service of SoBRA increase.

29 (2) Present base revenue is calculated using base rates in effect on January 16, 2017.

TAMPA ELECTRIC COMPANY
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12 CP &1/13 Allocation

26493

Lighting allocation spread over other classes

74 0.286%

60.00%

44

40.00%

30

		Lighting Share Reallocation		FINAL RR	Lighting Share Reallocation		FINAL RR
$000	%	$000	%	$000	$000	%	$000
14,751	55.6800%	41	55.84%	14,793	25	55.84%	14,776
1,380	5.2100%	4	5.22%	1,384	2	5.22%	1,383
9,490	35.8200%	27	35.92%	9,516	16	35.92%	9,506
797	3.0100%	2	3.02%	800	1	3.02%	799
74	0.2800%						30
26,493	100.0000%	74	100%	26,493	44	100%	26,493

TAMPA ELECTRIC COMPANY
DOCKET NO. 2017_____-EI
EXHIBIT NO. ___ (WRA-1)
DOCUMENT NO. 2

Base Revenue by Rate Schedule

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: TAMPA ELECTRIC COMPANY

EXPLANATION: By rate schedule, calculate revenues under present and proposed rates for the test year. If any customers are to be transferred from one schedule to another, show revenues separately for the transfer group. Correction factors are used for historic test years only. The total base revenue by class must equal that shown in Schedule E-13a. The billing units must equal those shown in Schedule E-15.
PROVIDE TOTAL NUMBER OF BILLS, MWH's, AND BILLING kW FOR EACH RATE SCHEDULE (INCLUDING STANDARD AND TIME OF USE CUSTOMERS) AND TRANSFER GROUP.

Type of data shown:
XX Projected Test year Ended 12/31/2018

Line No.

Page No.	Rate Schedule
2	RS, RSVP-1
3	GS, GST
4	CS
5	GSD, GSDT
6	GSD Optional
9	SBF, SBFT
10	IS, IST
14	SBI
16	LS-1 (Energy Service)

Supporting Schedules:

Recap Schedules: E-13a

TAMPA ELECTRIC COMPANY
DOCKET NO. 2017____-EI
EXHIBIT NO. ____ (WRA-1)
WITNESS: ASHBURN
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FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: TAMPA ELECTRIC COMPANY

DOCKET No. 130040-EI

EXPLANATION: By rate schedule, calculate revenues under present and proposed rates for the test year. If any customers are to be transferred from one schedule to another, show revenues separately for the transfer group. Correction factors are used for historic test years only. The total base revenue by class must equal that shown in Schedule E-13a. The billing units must equal those shown in Schedule E-15.
PROVIDE TOTAL NUMBER OF BILLS, MWH's, AND BILLING kW FOR EACH RATE SCHEDULE (INCLUDING STANDARD AND TIME OF USE CUSTOMERS) AND TRANSFER GROUP.

Type of data shown:
XX Projected Test year Ended 12/31/2018

Rate Schedule RS, RSVP-1

Line No.	Type of Charges	Present Revenue Calculation Units		Charge/Unit	$ Revenue	Proposed Revenue Calculation Units		Charge/Unit	$ Revenue	Percent Increase
1										
2	Basic Service Charge:									
3	Standard	8,034,426	Bills	$ 16.62	133,532,160	8,034,426	Bills	$ 16.62	133,532,160	
4	RSVP-1	54,194	Bills	$ 16.62	900,704	54,194	Bills	$ 16.62	900,704	
5	Total	8,088,620	Bills		134,432,864	8,088,620	Bills		134,432,864	0.0%
6										
7										
8										
9	Energy Charge:									
10	Standard									
11	First 1,000 kWh	6,288,472	MWH	$ 52.00	327,000,544	6,288,472	MWH	$ 53.94	339,189,489	
12	All additional kWh	2,878,950	MWH	$ 63.08	181,604,166	2,878,950	MWH	$ 63.94	184,075,169	
13	RSVP-1	79,602	MWH	$ 55.49	4,417,115	79,602	MWH	$ 57.08	4,543,547	
14	Total	9,247,024	MWH		513,021,825	9,247,024	MWH		527,808,205	2.9%
15										
16										
17										
18	Total Base Revenue:				647,454,689				662,241,069	2.3%
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										

Supporting Schedules:

Recap Schedules: E-13a

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: TAMPA ELECTRIC COMPANY

DOCKET No. 130040-EI

EXPLANATION: By rate schedule, calculate revenues under present and proposed rates for the test year. If any customers are to be transferred from one schedule to another, show revenues separately for the transfer group. Correction factors are used for historic test years only. The total base revenue by class must equal that shown in Schedule E-13a. The billing units must equal those shown in Schedule E-15.
PROVIDE TOTAL NUMBER OF BILLS, MWH's, AND BILLING kW FOR EACH RATE SCHEDULE (INCLUDING STANDARD AND TIME OF USE CUSTOMERS) AND TRANSFER GROUP.

Type of data shown:
XX Projected Test year Ended 12/31/2018

Rate Schedule GS, GST

Line No.	Type of Charges	Present Revenue Calculation Units		Charge/Unit	$ Revenue	Proposed Revenue Calculation Units		Charge/Unit	$ Revenue	Percent Increase
1										
2	Basic Service Charge:									
3	Standard Metered	770,609	Bills	$ 19.94	15,365,943	770,609	Bills	$ 19.94	15,365,943	
4	Standard Unmetered	1,164	Bills	$ 16.62	19,346	1,164	Bills	$ 16.62	19,346	
5	T-O-D	28,750	Bills	$ 22.16	637,100	28,750	Bills	$ 22.16	637,100	
6	T-O-D (Meter CIAC paid)	24	Bills	$ 19.94	479	24	Bills	$ 19.94	479	
7	Total	800,547	Bills		16,022,868	800,547	Bills		16,022,868	0.0%
8										
9	Energy Charge:									
10	Standard	900,400	MWH	$ 55.49	49,963,196	900,400	MWH	$ 56.91	51,240,233	
11	Standard Unmetered	1,416	MWH	$ 55.49	78,574	1,416	MWH	$ 56.91	80,582	
12	T-O-D On-Peak	9,546	MWH	$ 151.88	1,449,846	9,546	MWH	$ 145.33	1,387,320	
13	T-O-D Off-Peak	27,642	MWH	$ 10.30	284,713	27,642	MWH	$ 15.45	427,069	
14	Total	939,004	MWH		51,776,329	939,004	MWH		53,135,205	2.6%
15										
16	Emergency Relay Charge:									
17	Standard	2,010	MWH	$ 1.67	3,357	2,010	MWH	$ 1.67	3,357	
18	T-O-D	-	MWH	$ 1.67	-	-	MWH	$ 1.67	-	
19	Total	2,010	MWH		3,357	2,010	MWH		3,357	0.0%
20										
21										
22										
23	Total Base Revenue:				67,802,553				69,161,429	2.0%
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										

Supporting Schedules:

Recap Schedules: E-13a

TAMPA ELECTRIC COMPANY
DOCKET NO. 2017____-EI
EXHIBIT NO. ____ (WRA-1)
WITNESS: ASHBURN
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FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: TAMPA ELECTRIC COMPANY

DOCKET No. 130040-EI

EXPLANATION: By rate schedule, calculate revenues under present and proposed rates for the test year. If any customers are to be transferred from one schedule to another, show revenues separately for the transfer group. Correction factors are used for historic test years only. The total base revenue by class must equal that shown in Schedule E-13a. The billing units must equal those shown in Schedule E-15.
PROVIDE TOTAL NUMBER OF BILLS, MWH's, AND BILLING kW FOR EACH RATE SCHEDULE (INCLUDING STANDARD AND TIME OF USE CUSTOMERS) AND TRANSFER GROUP.

Type of data shown:
XX Projected Test year Ended 12/31/2018

Rate Schedule CS

Line No.	Type of Charges	Present Revenue Calculation Units	Charge/Unit	$ Revenue	Proposed Revenue Calculation Units	Charge/Unit	$ Revenue	Percent Increase
1								
2	Basic Service Charge:							
3		36,706 Bills	$ 19.94	731,918	36,706 Bills	$ 19.94	731,918	
4	Total	36,706 Bills		731,918	36,706 Bills		731,918	0.0%
5								
6	Energy Charge:							
7		8,703 MWH	$ 55.49	482,929	8,703 MWH	$ 56.91	495,273	
8	Total	8,703 MWH		482,929	8,703 MWH		495,273	2.6%
9								
10								
11								
12	Total Base Revenue:			1,214,847			1,227,191	1.0%
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
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26								
27								
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33								
34								
35								

Supporting Schedules:

Recap Schedules: E-13a

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: TAMPA ELECTRIC COMPANY

DOCKET No. 130040-EI

EXPLANATION: By rate schedule, calculate revenues under present and proposed rates for the test year. If any customers are to be transferred from one schedule to another, show revenues separately for the transfer group. Correction factors are used for historic test years only. The total base revenue by class must equal that shown in Schedule E-13a. The billing units must equal those shown in Schedule E-15.
PROVIDE TOTAL NUMBER OF BILLS, MWH's, AND BILLING kW FOR EACH RATE SCHEDULE (INCLUDING STANDARD AND TIME OF USE CUSTOMERS) AND TRANSFER GROUP.

Type of data shown:
XX Projected Test year Ended 12/31/2018

Rate Schedule GSD, GSDT

Line No.	Type of Charges	Present Revenue Calculation Units		Charge/Unit	$ Revenue	Proposed Revenue Calculation Units		Charge/Unit	$ Revenue	Percent Increase
1	Basic Service Charge:									
2	Standard - Secondary	156,983	Bills	$ 33.24	5,218,115	156,983	Bills	$ 33.24	5,218,115	
3	Standard - Primary	765	Bills	$ 144.03	110,127	765	Bills	$ 144.03	110,127	
4	Standard - Subtransmission	-	Bills	$ 1,096.82	-	0	Bills	$ 1,096.82	-	
5	T-O-D - Secondary	13,710	Bills	$ 33.24	455,720	13,710	Bills	$ 33.24	455,720	
6	T-O-D - Primary	771	Bills	$ 144.03	111,047	771	Bills	$ 144.03	111,047	
7	T-O-D - Subtransmission	30	Bills	$ 1,096.82	32,905	30	Bills	$ 1,096.82	32,905	
8	Total	172,259	Bills		5,927,914	172,259			5,927,914	0.0%
9										
10	Energy Charge:									
11	Standard - Secondary	4,355,024	MWH	$ 17.54	76,387,121	4,355,024	MWH	$ 17.54	76,387,121	
12	Standard - Primary	304,831	MWH	$ 17.54	5,346,736	304,831	MWH	$ 17.54	5,346,736	
13	Standard - Subtransmission	-	MWH	$ 17.54	-	-	MWH	$ 17.54	-	
14	T-O-D On-Peak - Secondary	547,588	MWH	$ 32.11	17,583,051	547,588	MWH	$ 32.11	17,583,051	
15	T-O-D On-Peak - Primary	277,061	MWH	$ 32.11	8,896,429	277,061	MWH	$ 32.11	8,896,429	
16	T-O-D On-Peak - Subtrans.	645	MWH	$ 32.11	20,711	645	MWH	$ 32.11	20,711	
17	T-O-D Off-Peak - Secondary	1,509,852	MWH	$ 11.59	17,499,185	1,509,852	MWH	$ 11.59	17,499,185	
18	T-O-D Off-Peak - Primary	751,688	MWH	$ 11.59	8,712,064	751,688	MWH	$ 11.59	8,712,064	
19	T-O-D Off-Peak - Subtrans.	1,821	MWH	$ 11.59	21,105	1,821	MWH	$ 11.59	21,105	
20	Total	7,748,510	MWH		134,466,401	7,748,510	MWH		134,466,401	0.0%
21										
22	Demand Charge:									
23	Standard - Secondary	11,401,551	kW	$ 10.25	116,865,898	11,401,551	kW	$ 10.74	122,452,658	
24	Standard - Primary	754,324	kW	$ 10.25	7,731,821	754,324	kW	$ 10.74	8,101,440	
25	Standard - Subtransmission	-	kW	$ 10.25	-	-	kW	$ 10.74	-	
26	T-O-D Billing - Secondary	3,875,489	kW	$ 3.46	13,409,192	3,875,489	kW	$ 3.63	14,068,025	
27	T-O-D Billing - Primary	1,963,244	kW	$ 3.46	6,792,824	1,963,244	kW	$ 3.63	7,126,576	
28	T-O-D Billing - Subtrans.	6,078	kW	$ 3.46	21,030	6,078	kW	$ 3.63	22,063	
29	T-O-D Peak - Secondary	3,745,684	kW (1)	$ 6.79	25,433,194	3,745,684	kW (1)	$ 7.12	26,669,270	
30	T-O-D Peak - Primary	1,881,812	kW (1)	$ 6.79	12,777,503	1,881,812	kW (1)	$ 7.12	13,398,501	
31	T-O-D Peak - Subtrans.	5,934	kW (1)	$ 6.79	40,292	5,934	kW (1)	$ 7.12	42,250	
32	Total	18,000,686	kW		183,071,755	18,000,686	kW		191,880,783	4.8%
33										
34	(1) Not included in Total.									
35										

Continued on Page 6

Supporting Schedules:

Recap Schedules: E-13a

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: TAMPA ELECTRIC COMPANY

DOCKET No. 130040-EI

EXPLANATION: By rate schedule, calculate revenues under present and proposed rates for the test year. If any customers are to be transferred from one schedule to another, show revenues separately for the transfer group. Correction factors are used for historic test years only. The total base revenue by class must equal that shown in Schedule E-13a. The billing units must equal those shown in Schedule E-15.
PROVIDE TOTAL NUMBER OF BILLS, MWH's, AND BILLING kW FOR EACH RATE SCHEDULE (INCLUDING STANDARD AND TIME OF USE CUSTOMERS) AND TRANSFER GROUP.

Type of data shown:
XX Projected Test year Ended 12/31/2018

Rate Schedule GSD, GSDT

Line No.	Type of Charges	Present Revenue Calculation Units		Charge/Unit	$ Revenue	Proposed Revenue Calculation Units		Charge/Unit	$ Revenue	Percent Increase
1	Continued from Page 8									
2										
3	Delivery Voltage Credit:									
4	Standard Primary	635,630	kW	$ (0.83)	(527,573)	635,630	kW	$ (0.83)	(527,573)	
5	Standard - Subtransmission	-	kW	$ (2.58)	-	-	kW	$ (2.58)	-	
6	T-O-D Primary	1,546,627	kW	$ (0.83)	(1,283,700)	1,546,627	kW	$ (0.83)	(1,283,700)	
7	T-O-D Subtransmission	11,316	kW	$ (2.58)	(29,195)	11,316	kW	$ (2.58)	(29,195)	
8	Total	2,193,573	kW		(1,840,469)	2,193,573	kW		(1,840,469)	0.0%
9										
10	Emergency Relay Charge:									
11	Standard Secondary	436,205	kW	$ 0.66	287,895	436,205	kW	$ 0.66	287,895	
12	Standard Primary	179,652	kW	$ 0.66	118,570	179,652	kW	$ 0.66	118,570	
13	Standard - Subtransmission	-	kW	$ 0.66	-	-	kW	$ 0.66	-	
14	T-O-D Secondary	746,274	kW	$ 0.66	492,541	746,274	kW	$ 0.66	492,541	
15	T-O-D Primary	786,269	kW	$ 0.66	518,938	786,269	kW	$ 0.66	518,938	
16	T-O-D Subtransmission	-	kW	$ 0.66	-	-	kW	$ 0.66	-	
17	Total	2,148,400	kW		1,417,944	2,148,400	kW		1,417,944	0.0%
18										
19	Power Factor Charge:									
20	Standard Secondary	14,339	MVARh	$ 2.22	31,833	14,339	MVARh	$ 2.22	31,833	
21	Standard Primary	24,464	MVARh	$ 2.22	54,310	24,464	MVARh	$ 2.22	54,310	
22	Standard - Subtransmission	0	MVARh	$ 2.22	-	0	MVARh	$ 2.22	-	
23	T-O-D Secondary	15,294	MVARh	$ 2.22	33,953	15,294	MVARh	$ 2.22	33,953	
24	T-O-D Primary	21,137	MVARh	$ 2.22	46,924	21,137	MVARh	$ 2.22	46,924	
25	T-O-D Subtransmission	48	MVARh	$ 2.22	107	48	MVARh	$ 2.22	107	
26		75,282	MVARh		167,126	75,282	MVARh		167,126	0.0%
27										
28										
29										
30										
31										
32										
33										
34										
35										

Supporting Schedules:

Recap Schedules: E-13a

TAMPA ELECTRIC COMPANY
DOCKET NO. 2017____-EI
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SCHEDULE E-13c | BASE REVENUE BY RATE SCHEDULE - CALCULATIONS | Page 7 of 17

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: TAMPA ELECTRIC COMPANY

DOCKET No. 130040-EI

EXPLANATION: By rate schedule, calculate revenues under present and proposed rates for the test year. If any customers are to be transferred from one schedule to another, show revenues separately for the transfer group. Correction factors are used for historic test years only. The total base revenue by class must equal that shown in Schedule E-13a. The billing units must equal those shown in Schedule E-15.
PROVIDE TOTAL NUMBER OF BILLS, MWH's, AND BILLING kW FOR EACH RATE SCHEDULE (INCLUDING STANDARD AND TIME OF USE CUSTOMERS) AND TRANSFER GROUP.

Type of data shown:
XX Projected Test year Ended 12/31/2018

Rate Schedule GSD, GSDT

Line No.	Type of Charges	Present Revenue Calculation Units	Charge/Unit	$ Revenue	Proposed Revenue Calculation Units	Charge/Unit	$ Revenue	Percent Increase
1	Continued from Page 9							
2								
3	Power Factor Credit:							
4	Standard Secondary	29097 MVARh	$ (1.11)	(32,298)	29097 MVARh	$ (1.11)	(32,298)	
5	Standard Primary	15610 MVARh	$ (1.11)	(17,327)	15610 MVARh	$ (1.11)	(17,327)	
6	Standard - Subtransmission	0 MVARh	$ (1.11)	-	0 MVARh	$ (1.11)	-	
7	T-O-D Secondary	122119 MVARh	$ (1.11)	(135,552)	122119 MVARh	$ (1.11)	(135,552)	
8	T-O-D Primary	70768 MVARh	$ (1.11)	(78,552)	70768 MVARh	$ (1.11)	(78,552)	
9	T-O-D Subtransmission	2 MVARh	$ (1.11)	(2)	2 MVARh	$ (1.11)	(2)	
10		237,596 MVARh		(263,732)	237,596 MVARh		(263,732)	0.0%
11								
12								
13	Metering Voltage Adjustment:							
14	Standard Primary	12,706,537 $	-1%	(127,065)	13,076,156 $	-1%	(130,762)	
15	Standard - Subtransmission	- $	-2%	-	- $	-2%	-	
16	T-O-D Primary	36,382,429 $	-1%	(363,824)	37,337,179 $	-1%	(373,372)	
17	T-O-D Subtransmission	74,047 $	-2%	(1,481)	77,039 $	-2%	(1,541)	
18	Total	49,163,013 $		(492,371)	50,490,373 $		(505,674)	2.7%
19								
20								
21								
22								
23	Total Base Revenue:			322,454,569			331,250,294	2.7%
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								

Supporting Schedules:

Recap Schedules: E-13a

TAMPA ELECTRIC COMPANY
DOCKET NO. 2017____-EI
EXHIBIT NO. ____ (WRA-1)
WITNESS: ASHBURN
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FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: TAMPA ELECTRIC COMPANY

DOCKET No. 130040-EI

EXPLANATION: By rate schedule, calculate revenues under present and proposed rates for the test year. If any customers are to be transferred from one schedule to another, show revenues separately for the transfer group. Correction factors are used for historic test years only. The total base revenue by class must equal that shown in Schedule E-13a. The billing units must equal those shown in Schedule E-15.
PROVIDE TOTAL NUMBER OF BILLS, MWH's, AND BILLING kW FOR EACH RATE SCHEDULE (INCLUDING STANDARD AND TIME OF USE CUSTOMERS) AND TRANSFER GROUP.

Type of data shown:
XX Projected Test year Ended 12/31/2018

Rate Schedule GSD Optional

Line No.	Type of Charges	Present Revenue Calculation Units		Charge/Unit	$ Revenue	Proposed Revenue Calculation Units		Charge/Unit	$ Revenue	Percent Increase
1	Basic Service Charge:									
2	Optional - Secondary	19,003	Bills	$ 33.24	631,660	19,003	Bills	$ 33.24	631,660	
3	Optional - Primary	288	Bills	$ 144.03	41,481	288	Bills	$ 144.03	41,481	
4	Optional - Subtransmission	-		$ 1,096.82	-	-		$ 1,096.82	-	
5	Total	19,291	Bills		673,140	19,291	Bills		673,140	0.0%
6										
7	Energy Charge:									
8	Optional - Secondary	363,509	MWH	$ 66.60	24,209,699	363,509	MWH	$ 68.29	24,824,030	
9	Optional - Primary	10,390	MWH	$ 66.60	691,974	10,390	MWH	$ 68.29	709,533	
10	Total	373,899	MWH		24,901,673	373,899	MWH		25,533,563	2.5%
11										
12	Demand Charge:									
13	Optional - Secondary	3,657,763	kW	$ -	-	3,657,763	kW	$ -	-	
14	Optional - Primary	157,490	kW	$ -	-	157,490	kW	$ -	-	
15	Total	3,815,253	kW		-	3,815,253			-	0.0%
16										
17	Delivery Voltage Credit:									
18	Optional - Primary	5,381	MWH	$ (2.20)	(11,838)	5,381	MWH	$ (2.26)	(12,139)	
19	Optional - Subtransmission	-	MWH	$ (6.72)	-	-	MWH	$ (6.89)	-	
20	Total	5,381	MWH		(11,838)	5,381	MWH		(12,139)	2.5%
21										
22	Emergency Relay									
23	Optional - Secondary	10,763	MWH	$ 1.67	17,974	10,763	MWH	$ 1.67	17,974	
24	Optional - Primary	-	MWH	$ 1.67	-	-	MWH	$ 1.67	-	
25	Total	10,763	MWH		17,974	10,763	MWH		17,974	0.0%
26										
27	Metering Voltage Adjustment:									
28	Optional - Primary	680,136	$	-1%	(6,801)	697,395	$	-1%	(6,974)	
29	Optional - Subtransmission	-	$	-2%	-	-	$	-2%	-	
30	Total	680,136	$		(6,801)	697,395	$		(6,974)	2.5%
31										
32										
33										
34	Total Base Revenue:				25,574,148				26,205,565	2.5%
35										

Supporting Schedules:

Recap Schedules: E-13a

TAMPA ELECTRIC COMPANY
DOCKET NO. 2017____-EI
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FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: TAMPA ELECTRIC COMPANY

DOCKET No. 130040-EI

EXPLANATION: By rate schedule, calculate revenues under present and proposed rates for the test year. If any customers are to be transferred from one schedule to another, show revenues separately for the transfer group. Correction factors are used for historic test years only. The total base revenue by class must equal that shown in Schedule E-13a. The billing units must equal those shown in Schedule E-15.
PROVIDE TOTAL NUMBER OF BILLS, MWH's, AND BILLING kW FOR EACH RATE SCHEDULE (INCLUDING STANDARD AND TIME OF USE CUSTOMERS) AND TRANSFER GROUP.

Type of data shown:
XX Projected Test year Ended 12/31/2018

Rate Schedule SBF, SBFT

Line No.	Type of Charges	Present Revenue Calculation Units		Charge/Unit	$ Revenue	Proposed Revenue Calculation Units		Charge/Unit	$ Revenue	Percent Increase
1										
2	Basic Service Charge:									
3	Standard Secondary	0	Bills	$ 60.93	-	0	Bills	$ 60.93	-	
4	Standard Primary	0	Bills	$ 171.72	-	0	Bills	$ 171.72	-	
5	Standard Subtransmission	0	Bills	$ 1,124.52	-	0	Bills	$ 1,124.52	-	
6	T-O-D Secondary	0	Bills	$ 60.93	-	0	Bills	$ 60.93	-	
7	T-O-D Primary	38	Bills	$ 171.72	6,525	38	Bills	$ 171.72	6,525	
8	T-O-D Subtransmission	50	Bills	$ 1,124.52	56,226	50	Bills	$ 1,124.52	56,226	
9	Total	88	Bills		62,751	88	Bills		62,751	0.0%
10										
11	Energy Charge - Supplemental:									
12	Standard Secondary	0	MWH	$ 17.54	-	-	MWH	$ 17.54	-	
13	Standard Primary	0	MWH	$ 17.54	-	-	MWH	$ 17.54	-	
14	Standard Subtransmission	0	MWH	$ 17.54	-	-	MWH	$ 17.54	-	
15	T-O-D On-Peak - Secondary	0	MWH	$ 32.11	-	-	MWH	$ 32.11	-	
16	T-O-D On-Peak - Primary	28,060	MWH	$ 32.11	901,007	28,060	MWH	$ 32.11	901,007	
17	T-O-D On-Peak - Subtrans.	-	MWH	$ 32.11	-	-	MWH	$ 32.11	-	
18	T-O-D Off-Peak - Secondary	0	MWH	$ 11.59	-	-	MWH	$ 11.59	-	
19	T-O-D Off-Peak - Primary	84,167	MWH	$ 11.59	975,496	84,167	MWH	$ 11.59	975,496	
20	T-O-D Off-Peak - Subtrans.	-	MWH	$ 11.59	-	-	MWH	$ 11.59	-	
21	Energy Charge - Standby:									
22	T-O-D On-Peak -Secondary	-	MWH	$ 10.12	-	-	MWH	$ 10.12	-	
23	T-O-D On-Peak - Primary	1,552	MWH	$ 10.12	15,706	1,552	MWH	$ 10.12	15,706	
24	T-O-D On-Peak - Subtrans.	1,391	MWH	$ 10.12	14,077	1,391	MWH	$ 10.12	14,077	
25	T-O-D Off-Peak -Secondary	-	MWH	$ 10.12	-	-	MWH	$ 10.12	-	
26	T-O-D Off-Peak - Primary	5,354	MWH	$ 10.12	54,182	5,354	MWH	$ 10.12	54,182	
27	T-O-D Off-Peak - Subtrans.	4,799	MWH	$ 10.12	48,566	4,799	MWH	$ 10.12	48,566	
28	Total	125,323	MWH		2,009,034	125,323	MWH		2,009,034	0.0%
29										
30										
31										
32										
33										
34										
35										

Supporting Schedules:

Recap Schedules: E-13a

TAMPA ELECTRIC COMPANY
DOCKET NO. 2017____-EI
EXHIBIT NO. ____ (WRA-1)
WITNESS: ASHBURN
DOCUMENT NO. 2
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FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: TAMPA ELECTRIC COMPANY

DOCKET No. 130040-EI

EXPLANATION: By rate schedule, calculate revenues under present and proposed rates for the test year. If any customers are to be transferred from one schedule to another, show revenues separately for the transfer group. Correction factors are used for historic test years only. The total base revenue by class must equal that shown in Schedule E-13a. The billing units must equal those shown in Schedule E-15.
PROVIDE TOTAL NUMBER OF BILLS, MWH's, AND BILLING kW FOR EACH RATE SCHEDULE (INCLUDING STANDARD AND TIME OF USE CUSTOMERS) AND TRANSFER GROUP.

Type of data shown:
XX Projected Test year Ended 12/31/2018

Rate Schedule SBF, SBFT

Line No.	Type of Charges	Present Revenue Calculation Units		Charge/Unit		$ Revenue	Proposed Revenue Calculation Units		Charge/Unit		$ Revenue	Percent Increase
1	Continued from Page 13											
2												
3	Demand Charge - Supplemental:											
4	Standard Secondary	-	kW	$ 10.25		-	-	kW	$ 10.74		-	
5	Standard Primary	-	kW	$ 10.25		-	-	kW	$ 10.74		-	
6	Standard Subtransmission	-	kW	$ 10.25		-	-	kW	$ 10.74		-	
7	T-O-D Billing - Secondary	-	kW	$ 3.46		-	-	kW	$ 3.63		-	
8	T-O-D Billing - Primary	189,757	kW	$ 3.46		656,559	189,757	kW	$ 3.63		688,818	
9	T-O-D billing - Subtransmission	-	kW	$ 3.46		-	-	kW	$ 3.63		-	
10	T-O-D Peak - Secondary	-	kW (1)	$ 6.79		-	-	kW (1)	$ 7.12		-	
11	T-O-D Peak - Primary	182,747	kW (1)	$ 6.79		1,240,852	182,747	kW (1)	$ 7.12		1,301,159	
12	T-O-D Peak - Subtransmission	-	kW (1)	$ 6.79		-	-	kW (1)	$ 7.12		-	
13	Demand Charge - Standby:											
14	T-O-D Facilities Reservation - Sec.	-	kW	$ 2.15		-	-	kW	$ 2.15		-	
15	T-O-D Facilities Reservation - Pri.	124,472	kW	$ 2.15		267,615	124,472	kW	$ 2.15		267,615	
16	T-O-D Facilities Reservation - Sub.	239,385	kW	$ 2.15		514,678	239,385	kW	$ 2.15		514,678	
17	T-O-D Power Supply Res. - Sec.	-	kW (1)	$ 1.71	/ kW-mo.	-	-	kW (1)	$ 1.71	kW-mo.	-	
18	T-O-D Power Supply Res. - Pri.	58,727	kW (1)	$ 1.71	/ kW-mo.	100,423	58,727	kW (1)	$ 1.71	kW-mo.	100,423	
19	T-O-D Power Supply Res. - Sub.	186,159	kW (1)	$ 1.71	/ kW-mo.	318,332	186,159	kW (1)	$ 1.71	kW-mo.	318,332	
20	T-O-D Power Supply Dmd. - Sec.	-	kW (1)	$ 0.68	/ kW-day	-	-	kW (1)	$ 0.68	kW-day	-	
21	T-O-D Power Supply Dmd. - Pri.	336,057	kW (1)	$ 0.68	/ kW-day	228,519	336,057	kW (1)	$ 0.68	kW-day	228,519	
22	T-O-D Power Supply Dmd. - Sub.	306,977	kW (1)	$ 0.68	/ kW-day	208,744	306,977	kW (1)	$ 0.68	kW-day	208,744	
23	Total	553,614	kW			3,535,722	553,614	kW			3,628,287	2.6%
24												
25												
26	Power Factor Charge Supplemental & Standby:											
27	Standard Secondary	-	MVARh	$ 2.22		-	-	MVARh	$ 2.22		-	
28	Standard Primary	-	MVARh	$ 2.22		-	-	MVARh	$ 2.22		-	
29	Standard Subtransmission	-	MVARh	$ 2.22		-	-	MVARh	$ 2.22		-	
30	T-O-D Secondary	94	MVARh	$ 2.22		209	94	MVARh	$ 2.22		209	
31	T-O-D Primary	5,019	MVARh	$ 2.22		11,142	5,019	MVARh	$ 2.22		11,142	
32	T-O-D Subtransmission	1,038	MVARh	$ 2.22		2,304	1,038	MVARh	$ 2.22		2,304	
33		6,151				13,655	6,151				13,655	0.0%
34	(1) Not included in Total.											
35												Continued on Page 11

Supporting Schedules:

Recap Schedules: E-13a

TAMPA ELECTRIC COMPANY
DOCKET NO. 2017____-EI
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FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: TAMPA ELECTRIC COMPANY

DOCKET No. 130040-EI

EXPLANATION: By rate schedule, calculate revenues under present and proposed rates for the test year. If any customers are to be transferred from one schedule to another, show revenues separately for the transfer group. Correction factors are used for historic test years only. The total base revenue by class must equal that shown in Schedule E-13a. The billing units must equal those shown in Schedule E-15.
PROVIDE TOTAL NUMBER OF BILLS, MWH's, AND BILLING kW FOR EACH RATE SCHEDULE (INCLUDING STANDARD AND TIME OF USE CUSTOMERS) AND TRANSFER GROUP.

Type of data shown:
XX Projected Test year Ended 12/31/2018

Rate Schedule SBF, SBFT

Line No.	Type of Charges	Present Revenue Calculation Units		Charge/Unit	$ Revenue	Proposed Revenue Calculation Units		Charge/Unit	$ Revenue	Percent Increase
1	Continued from Page 14									
2										
3	Power Factor Credit Supplemental & Standby:									
4	Standard Secondary	-	MVARh	$ (1.11)	-	-	MVARh	$ (1.11)	-	
5	Standard Primary	-	MVARh	$ (1.11)	-	-	MVARh	$ (1.11)	-	
6	Standard Subtransmission	-	MVARh	$ (1.11)	-	-	MVARh	$ (1.11)	-	
7	T-O-D Secondary	-	MVARh	$ (1.11)	-	-	MVARh	$ (1.11)	-	
8	T-O-D Primary	2,108	MVARh	$ (1.11)	(2,340)	2,108	MVARh	$ (1.11)	(2,340)	
9	T-O-D Subtransmission	680	MVARh	$ (1.11)	(755)	680	MVARh	$ (1.11)	(755)	
14	Total	2,788	MVARh		(3,095)	2,788	MVARh		(3,095)	0.0%
15										
16	Delivery Voltage Credit - Supplemental.:									
17	Standard Primary	-	kW	$ (0.83)	-	-	kW	$ (0.83)	-	
18	Standard Subtransmission	-	kW	$ (2.58)	-	-	kW	$ (2.58)	-	
19	T-O-D Primary	189,757	kW	$ (0.83)	(157,498)	189,757	kW	$ (0.83)	(157,498)	
20	T-O-D Subtransmission	-	kW	$ (2.58)	-	-	kW	$ (2.58)	-	
21	Delivery Voltage Credit. - Standby.:									
22	T-O-D Primary	124,376	kW	$ (0.69)	(85,819)	124,376	kW	$ (0.69)	(85,819)	
23	T-O-D Subtransmission	239,481	kW	$ (2.16)	(517,279)	239,481	kW	$ (2.16)	(517,279)	
24	Total	553,614	kW		(760,597)	553,614	kW		(760,597)	0.0%
25										
26	Emergency Relay Charge - Supplemental and Standby.									
27	Standard Secondary	-	kW	$ 0.66	-	-	kW	$ 0.66	-	
28	Standard Primary	-	kW	$ 0.66	-	-	kW	$ 0.66	-	
29	Standard Subtransmission	-	kW	$ 0.66	-	-	kW	$ 0.66	-	
30	T-O-D Secondary	-	kW	$ 0.66	-	-	kW	$ 0.66	-	
31	T-O-D Primary	183,003	kW	$ 0.66	120,782	183,003	kW	$ 0.66	120,782	
32	T-O-D Subtransmission	-	kW	$ 0.66	-	-	kW	$ 0.66	-	
33		183,003			120,782	183,003			120,782	0.0%
34										
35										
36										
37										
34										
35										

Supporting Schedules:

Recap Schedules: E-13a

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: TAMPA ELECTRIC COMPANY

DOCKET No. 130040-EI

EXPLANATION: By rate schedule, calculate revenues under present and proposed rates for the test year. If any customers are to be transferred from one schedule to another, show revenues separately for the transfer group. Correction factors are used for historic test years only. The total base revenue by class must equal that shown in Schedule E-13a. The billing units must equal those shown in Schedule E-15.
PROVIDE TOTAL NUMBER OF BILLS, MWH's, AND BILLING kW FOR EACH RATE SCHEDULE (INCLUDING STANDARD AND TIME OF USE CUSTOMERS) AND TRANSFER GROUP.

Type of data shown:
XX Projected Test year Ended 12/31/2018

Rate Schedule SBF, SBFT

Line No.	Type of Charges	Present Revenue Calculation Units	Charge/Unit	$ Revenue	Proposed Revenue Calculation Units	Charge/Unit	$ Revenue	Percent Increase
1	Continued from Page 15							
2								
3	Metering Voltage Adjustment - Supplemental and Stanby.:							
4	Standard Primary	-	$ -1.0%	-	-	$ -1.0%	-	
5	Standard Subtransmission	-	$ -2.0%	-	-	$ -2.0%	-	
6	T-O-D Primary	4,326,625	$ -1.0%	(43,266)	4,419,191	$ -1.0%	(44,192)	
7	T-O-D Subtransmission	588,667	$ -2.0%	(11,773)	588,667	$ -2.0%	(11,773)	
8	Total	4,915,293	$	(55,040)	5,007,858	$	(55,965)	1.7%
9								
10								
11								
12	Total Base Revenue:			4,923,213			5,014,853	1.9%
13								
14								
15								
16								
17								
18								
19								
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35								

Supporting Schedules:

Recap Schedules: E-13a

TAMPA ELECTRIC COMPANY
DOCKET NO. 2017____-EI
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FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: TAMPA ELECTRIC COMPANY

DOCKET No. 130040-EI

EXPLANATION: By rate schedule, calculate revenues under present and proposed rates for the test year. If any customers are to be transferred from one schedule to another, show revenues separately for the transfer group. Correction factors are used for historic test years only. The total base revenue by class must equal that shown in Schedule E-13a. The billing units must equal those shown in Schedule E-15.
PROVIDE TOTAL NUMBER OF BILLS, MWH's, AND BILLING kW FOR EACH RATE SCHEDULE (INCLUDING STANDARD AND TIME OF USE CUSTOMERS) AND TRANSFER GROUP.

Type of data shown:
XX Projected Test year Ended 12/31/2018

Rate Schedule IS, IST

Line No.	Type of Charges	Present Revenue Calculation Units		Charge/Unit	$ Revenue	Proposed Revenue Calculation Units		Charge/Unit	$ Revenue	Percent Increase
1										
2	Basic Service Charge:									
3	Standard Pri.	98	Bills	$ 689.11	67,533	98	Bills	$ 689.11	67,533	
4	Standard Subtrans.	-	Bills	$ 2,627.94	-	-	Bills	$ 2,627.94	-	
5	T-O-D Primary	127	Bills	$ 689.11	87,531	127	Bills	$ 689.11	87,531	
6	T-O-D Subtransmission	113	Bills	$ 2,627.94	296,721	113	Bills	$ 2,627.94	296,721	
7	Total	338	Bills		451,784	338	Bills		451,784	0.0%
8										
9	Energy Charge:									
10	Standard Primary	43,405	MWH	$ 27.74	1,204,055	43,405	MWH	$ 27.74	1,204,055	
11	Standard Subtransmission	-	MWH	$ 27.74	-	-	MWH	$ 27.74	-	
12	T-O-D On-Peak - Pri.	37,618	MWH	$ 27.74	1,043,523	37,618	MWH	$ 27.74	1,043,523	
13	T-O-D On-Peak - Subtrans.	105,438	MWH	$ 27.74	2,924,850	105,438	MWH	$ 27.74	2,924,850	
14	T-O-D Off-Peak - Pri.	103,161	MWH	$ 27.74	2,861,686	103,161	MWH	$ 27.74	2,861,686	
15	T-O-D Off-Peak - Subtrans.	327,030	MWH	$ 27.74	9,071,812	327,030	MWH	$ 27.74	9,071,812	
16	Total	616,652	MWH		17,105,926	616,652	MWH		17,105,926	0.0%
17										
18	Demand Charge:									
19	Standard Primary	109,262	kW	$ 1.61	175,912	109,262	kW	$ 2.10	229,450	
20	Standard Subtrans.	-	kW	$ 1.61	-	-	kW	$ 2.10	-	
21	T-O-D Billing - Primary	266,444	kW	$ 1.61	428,975	266,444	kW	$ 2.10	559,532	
22	T-O-D Billing - Subtrans.	1,165,839	kW	$ 1.61	1,877,001	1,165,839	kW	$ 2.10	2,448,262	
23	T-O-D Peak - Primary	264,818	kW (1)	$ -	-	264,818	kW (1)	$ -	-	
24	T-O-D Peak - Subtrans.	1,146,121	kW (1)	$ -	-	1,146,121	kW (1)	$ -	-	
25	Total	1,541,545	kW		2,481,887	1,541,545	kW		3,237,245	30.4%
26										
27	Power Factor Charge:									
28	Standard Primary	7,673	MVARh	$ 2.22	17,034	7,673	MVARh	$ 2.22	17,034	
29	Standard Subtrans.	-	MVARh	$ 2.22	-	-	MVARh	$ 2.22	-	
30	T-O-D Primary	12,211	MVARh	$ 2.22	27,108	12,211	MVARh	$ 2.22	27,108	
31	T-O-D Subtransmission	21,904	MVARh	$ 2.22	48,627	21,904	MVARh	$ 2.22	48,627	
32	Total	41,788	MVARh		92,769	41,788	MVARh		92,769	0.0%
33										
34	(1) Not included in Total.									
35										

Continued on Page 14

Supporting Schedules:

Recap Schedules: E-13a

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TAMPA ELECTRIC COMPANY
DOCKET NO. 2017____-EI
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FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: TAMPA ELECTRIC COMPANY

DOCKET No. 130040-EI

EXPLANATION: By rate schedule, calculate revenues under present and proposed rates for the test year. If any customers are to be transferred from one schedule to another, show revenues separately for the transfer group. Correction factors are used for historic test years only. The total base revenue by class must equal that shown in Schedule E-13a. The billing units must equal those shown in Schedule E-15.
PROVIDE TOTAL NUMBER OF BILLS, MWH's, AND BILLING kW FOR EACH RATE SCHEDULE (INCLUDING STANDARD AND TIME OF USE CUSTOMERS) AND TRANSFER GROUP.

Type of data shown:
XX Projected Test year Ended 12/31/2018

Rate Schedule IS, IST

Line No.	Type of Charges	Present Revenue Calculation Units		Charge/Unit	$ Revenue	Proposed Revenue Calculation Units		Charge/Unit	$ Revenue	Percent Increase
1	Continued from Page 17									
2										
3	Power Factor Credit:									
4	Standard Primary	3,486	MVARh	$ (1.11)	(3,869)	3,486	MVARh	$ (1.11)	(3,869)	
5	Standard Subtrans.	-	MVARh	$ (1.11)	-	-	MVARh	$ (1.11)	-	
6	T-O-D Primary	2,398	MVARh	$ (1.11)	(2,662)	2,398	MVARh	$ (1.11)	(2,662)	
7	T-O-D Subtransmission	12,324	MVARh	$ (1.11)	(13,680)	12,324	MVARh	$ (1.11)	(13,680)	
8	Total	18,208	MVARh		(20,211)	18,208	MVARh		(20,211)	0.0%
9										
10	Emergency Relay Service									
11	Standard Primary	-	kW	$ 0.63	-	-	kW	$ 0.63	-	
12	Standard Subtrans.	-	kW	$ 0.63	-	-	kW	$ 0.63	-	
13	T-O-D Primary	-	kW	$ 0.63	-	-	kW	$ 0.63	-	
14	T-O-D Subtransmission	-	kW	$ 0.63	-	-	kW	$ 0.63	-	
15	Total	-	kW		-	-	kW		-	0.0%
16										
17	Delivery Voltage Credit:									
18	Standard Primary	109,262	kW	$ -	-	109,262	kW	$ -	-	
19	Standard Subtrans.	-	kW	$ (0.44)	-	-	kW	$ (0.44)	-	
20	T-O-D Primary	293,919	kW	$ -	-	293,919	kW	$ -	-	
21	T-O-D Subtransmission	1,138,363	kW	$ (0.44)	(500,880)	1,138,363	kW	$ (0.44)	(500,880)	
22	Total	1,541,544	kW		(500,880)	1,541,544	kW		(500,880)	0.0%
23										
24	Metering Voltage Adjustment:									
25	Standard Primary	1,393,131	$	0%	-	1,446,670	$	0%	-	
26	Standard Subtrans.	-	$	-1%	-	-	$	-1%	-	
27	T-O-D Primary	4,358,631	$	0%	-	4,489,189	$	0%	-	
28	T-O-D Subtransmission	13,407,731	$	-1%	(134,077)	13,978,992	$	-1%	(139,790)	
29	Total	19,159,493	$		(134,077)	19,914,850	$		(139,790)	4.3%
30										
31										
32										
33	Total Base Revenue:				19,477,200				20,226,844	3.8%
34										
35										

Supporting Schedules:

Recap Schedules: E-13a

TAMPA ELECTRIC COMPANY
DOCKET NO. 2017____-EI
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FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: TAMPA ELECTRIC COMPANY

DOCKET No. 130040-EI

EXPLANATION: By rate schedule, calculate revenues under present and proposed rates for the test year. If any customers are to be transferred from one schedule to another, show revenues separately for the transfer group. Correction factors are used for historic test years only. The total base revenue by class must equal that shown in Schedule E-13a. The billing units must equal those shown in Schedule E-15.
PROVIDE TOTAL NUMBER OF BILLS, MWH's, AND BILLING kW FOR EACH RATE SCHEDULE (INCLUDING STANDARD AND TIME OF USE CUSTOMERS) AND TRANSFER GROUP.

Type of data shown:
XX Projected Test year Ended 12/31/2018

Rate Schedule SBI

Line No.	Type of Charges	Present Revenue Calculation Units		Charge/Unit		$ Revenue	Proposed Revenue Calculation Units		Charge/Unit		$ Revenue	Percent Increase
1												
2	Basic Service Charge:											
3	T-O-D Primary	0	Bills	$ 717		-	0	Bills	$ 716.81		-	
4	T-O-D Subtransmission	80	Bills	$ 2,656		212,451	80	Bills	$ 2,655.64		212,451	
5	Total	80	Bills			212,451	80	Bills			212,451	0.0%
6												
7	Energy Charge - Supplemental:											
8	T-O-D On-Peak - Pri.	-	MWH	$ 27.74		-	-	MWH	$ 27.74		-	
9	T-O-D On-Peak - Subtrans.	6,127	MWH	$ 27.74		169,963	6,127	MWH	$ 27.74		169,963	
10	T-O-D Off-Peak - Pri.	-	MWH	$ 27.74		-	-	MWH	$ 27.74		-	
11	T-O-D Off-Peak - Subtrans.	21,491	MWH	$ 27.74		596,160	21,491	MWH	$ 27.74		596,160	
12	Energy Charge - Standby:											
13	T-O-D On-Peak - Pri.	-	MWH	$ 11.15		-	-	MWH	$ 11.15		-	
14	T-O-D On-Peak - Subtrans.	69,213	MWH	$ 11.15		771,725	69,213	MWH	$ 11.15		771,725	
15	T-O-D Off-Peak - Pri.	-	MWH	$ 11.15		-	-	MWH	$ 11.15		-	
16	T-O-D Off-Peak - Subtrans.	198,395	MWH	$ 11.15		2,212,104	198,395	MWH	$ 11.15		2,212,104	
17	Total	295,226	MWH			3,749,953	295,226	MWH			3,749,953	0.0%
18												
19	Demand Charge - Supplemental:											
20	T-O-D Billing - Primary	-	kW	$ 1.61	kW	-	-	kW	$ 2.10	kW	-	
21	T-O-D Billing - Subtrans.	75,667	kW	$ 1.61	kW	121,824	75,667	kW	$ 2.10	kW	158,901	
22	T-O-D Peak - Primary	-	kW (1)	$ -	kW	-	-	kW (1)	$ -	kW	-	
23	T-O-D Peak - Subtrans.	42,115	kW (1)	$ -	kW	-	42,115	kW (1)	$ -	kW	-	
24	Demand Charge - Standby:											
25	T-O-D Facilities Reservation - Pri.	-	kW	$ 1.61	kW	-	-	kW	$ 1.61	kW	-	
26	T-O-D Facilities Res. - Subtrans.	2,391,609	kW	$ 1.61	kW	3,850,490	2,391,609	kW	$ 1.61	kW	3,850,490	
27	T-O-D Bulk Trans. Res. - Pri.	-	kW (1)	$ 1.33	kW-mo.	-	-	kW (1)	$ 1.33	kW-mo.	-	
28	T-O-D Bulk Trans. Res. - Subtrans.	289,032	kW (1)	$ 1.33	kW-mo.	384,413	289,032	kW (1)	$ 1.33	kW-mo.	384,413	
29	T-O-D Bulk Trans. Dmd. - Pri.	-	kW (1)	$ 0.53	kW-day	-	-	kW (1)	$ 0.53	kW-day	-	
30	T-O-D Bulk Trans Dmd. - Subtrans.	14,058,825	kW (1)	$ 0.53	kW-day	7,451,177	14,058,825	kW (1)	$ 0.53	kW-day	7,451,177	
31	Total	2,467,276	kW			11,807,904	2,467,276	kW			11,844,981	0.3%
32												
33												
34	(1) Not included in Total.											
35												

Continued on Page 16

Supporting Schedules:

Recap Schedules: E-13a

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: TAMPA ELECTRIC COMPANY

DOCKET No. 130040-EI

EXPLANATION: By rate schedule, calculate revenues under present and proposed rates for the test year. If any customers are to be transferred from one schedule to another, show revenues separately for the transfer group. Correction factors are used for historic test years only. The total base revenue by class must equal that shown in Schedule E-13a. The billing units must equal those shown in Schedule E-15.
PROVIDE TOTAL NUMBER OF BILLS, MWH's, AND BILLING kW FOR EACH RATE SCHEDULE (INCLUDING STANDARD AND TIME OF USE CUSTOMERS) AND TRANSFER GROUP.

Type of data shown:
XX Projected Test year Ended 12/31/2018

Rate Schedule SBI

Line No.	Type of Charges	Present Revenue Calculation Units		Charge/Unit	$ Revenue	Proposed Revenue Calculation Units		Charge/Unit	$ Revenue	Percent Increase
1	Continued from Page 19									
2										
3	Power Factor Charge Supplemental & Standby:									
4	T-O-D Primary	-	MVARh	$ 2.22	-	-	MVARh	$ 2.22	-	
5	T-O-D Subtransmission	52,182	MVARh	$ 2.22	115,844	52,182	MVARh	$ 2.22	115,844	
6	Total	52,182	MVARh		115,844	52,182	MVARh		115,844	0.0%
7										
8	Power Factor Credit Supplemental & Standby:									
9	T-O-D Primary	-	MVARh	$ (1.11)	-	-	MVARh	$ (1.11)	-	
10	T-O-D Subtransmission	20,629	MVARh	$ (1.11)	(22,898)	20,629	MVARh	$ (1.11)	(22,898)	
11	Total	20,629	MVARh		(22,898)	20,629	MVARh		(22,898)	0.0%
12										
13	Emergency Relay Charge - Supp.									
14	T-O-D Primary	-	kW	$ 0.63	-	-	kW	$ 0.63	-	
15	T-O-D Subtransmission	-	kW	$ 0.63	-	-	kW	$ 0.63	-	
16	Total	-	kW		-	-	kW		-	0.0%
17										
18	Delivery Voltage Credit - Supplemental.:									
19	T-O-D Primary	-	kW	$ -	-	-	kW	$ -	-	
20	T-O-D Subtransmission	75,667	kW	$ (0.44)	(33,293)	75,667	kW	$ (0.44)	(33,293)	
21	Delivery Voltage Credit. - Standby.:									
22	T-O-D Primary	-	kW	$ -	-	-	kW	$ -	-	
23	T-O-D Subtransmission	2,391,609	kW	$ (0.37)	(884,895)	2,391,609	kW	$ (0.37)	(884,895)	
24	Total	2,467,276	kW		(918,189)	2,467,276	kW		(918,189)	0.0%
25										
26	Metering Voltage Adjustment - Supplemental and Stanby.:									
27	T-O-D Primary	-	$	0.0%	-	-	$	0.0%	-	
28	T-O-D Subtransmission	14,732,614	$	-1.0%	(147,326)	14,769,691	$	-1.0%	(147,697)	
29	Total	14,732,614	$		(147,326)	14,769,691	$		(147,697)	0.3%
30										
31										
32										
33	Total Base Revenue:				14,797,739				14,834,445	0.2%
34										
35										

Supporting Schedules:

Recap Schedules: E-13a

TAMPA ELECTRIC COMPANY
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SCHEDULE E-13c | BASE REVENUE BY RATE SCHEDULE - CALCULATIONS | Page 17 of 17

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: TAMPA ELECTRIC COMPANY

DOCKET No. 130040-EI

EXPLANATION: By rate schedule, calculate revenues under present and proposed rates for the test year. If any customers are to be transferred from one schedule to another, show revenues separately for the transfer group. Correction factors are used for historic test years only. The total base revenue by class must equal that shown in Schedule E-13a. The billing units must equal those shown in Schedule E-15.
PROVIDE TOTAL NUMBER OF BILLS, MWH's, AND BILLING kW FOR EACH RATE SCHEDULE (INCLUDING STANDARD AND TIME OF USE CUSTOMERS) AND TRANSFER GROUP.

Type of data shown:
XX Projected Test year Ended 12/31/2018

Rate Schedule LS-1 (Energy Service)

Line No.	Type of Charges	Present Revenue Calculation Units		Charge/Unit	$ Revenue	Proposed Revenue Calculation Units		Charge/Unit	$ Revenue	Percent Increase
1										
2	Basic Service Charge:	2,810	Bills	$ 11.62	32,652	2,810	Bills	$ 11.62	32,652	0.0%
3										
4	Energy Charge	189,780	MWH	$ 27.27	5,175,301	189,780	MWH	$ 27.43	5,205,665	0.6%
5										
6										
7	Total Base Revenue:				5,207,953				5,238,318	0.6%
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
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25										
26										
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29										
30										
31										
32										
33										
34										
35										

Supporting Schedules: E-13d

Recap Schedules: E-13a

TAMPA ELECTRIC COMPANY
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Rollup Base Revenue by Rate Class

SCHEDULE E-13a | REVENUE FROM SALE OF ELECTRICITY BY RATE SCHEDULE | Page 1 of 1

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: TAMPA ELECTRIC COMPANY

EXPLANATION: Compare jurisdictional revenue excluding service charges by rate schedule under present and proposed rates for the test year. If any customers are to be transferred from one schedule to another, the revenue and billing determinant information shall be shown separately for the transfer group and not be included under either the new or old classification.

Type of data shown:
XX Projected Year Ended 12/31/2018

($000)

12CP & 1/13 - all demand

Line No.	Rate	(1) Base Revenue at Present Rates	(2) Base Revenue Under Proposed Rates	Increase (3) Dollars (2) - (1)	Increase (4) Percent (3) / (1)
1	RS, RSVP-1	647,455	662,241	14,786	2.3%
2	GS, GST	67,803	69,161	1,359	2.0%
3	CS	1,215	1,227	12	1.0%
4	GSD, GSDT	322,455	331,250	8,796	2.7%
5	GSD Optional	25,574	26,206	631	2.5%
6	SBF, SBFT	4,923	5,015	92	1.9%
7	IS, IST	19,477	20,227	750	3.8%
8	SBI	14,798	14,834	37	0.2%
9	LS-1 (Energy Service)	5,208	5,238	30	0.6%
10	LS-1 (Facilities)	43,545	43,545	-	0.0%
11					
12					
13	TOTAL	$ 1,152,452	$ 1,178,945	$ 26,493	2.3%
14					
15					
16					
17					
18					
19					
20					
21					
22	Summary by Rate Class				
23	RS	647,455	662,241	14,786	2.3%
24					
25	GS	69,017	70,389	1,371	2.0%
26					
27	GSD	352,952	362,471	9,519	2.7%
28					
29	IS	34,275	35,061	786	2.3%
30					
31	Lighting	48,753	48,783	30	0.1%
32					
33	TOTAL	1,152,452	1,178,945	26,493	2.3%
34					
35					
36					

Supporting Schedules: E-13c, E-13d

Recap Schedules:

TAMPA ELECTRIC COMPANY
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Typical Bills Reflecting

First SoBRA Base Revenue Increase

SOBRA
12CP and 1/13 With 40% Allocation to Lighting
All Demand

SCHEDULE A-2 | FULL REVENUE REQUIREMENTS BILL COMPARISON - TYPICAL MONTHLY BILLS | Page 1 of 4

FLORIDA PUBLIC SERVICE COMMISSION | EXPLANATION: For each rate, calculate typical monthly bills for present rates and proposed rates. | Type of data shown: XX Projected Test year Ended 12/31/2018

COMPANY: TAMPA ELECTRIC COMPANY

RS - RESIDENTIAL SERVICE

Line No.	RATE SCHEDULE RS (1) TYPICAL KW	(2) KWH	BILL UNDER PRESENT RATES (3) BASE RATE	(4) FUEL CHARGE	(5) ECCR CHARGE	(6) CAPACITY CHARGE	(7) ECRC CHARGE	(8) GRT CHARGE	(9) TOTAL	BILL UNDER PROPOSED RATES (10) BASE RATE	(11) FUEL CHARGE	(12) ECCR CHARGE	(13) CAPACITY CHARGE	(14) ECRC CHARGE	(15) GRT CHARGE	(16) TOTAL	INCREASE (17) DOLLARS (16)-(9)	(18) PERCENT (17)/(9)	COSTS IN CENTS/KWH (19) PRESENT (9)/(2)*100	(20) PROPOSED (16)/(2)*100
1	0	-	$ 16.62	$ -	$ -	$ -	$ -	$ 0.43	$ 17.05	$ 16.62	$ -	$ -	$ -	$ -	$ 0.43	$ 17.05	$ -	0.0%	-	-
2																				
3	0	100	$ 21.82	$ 2.82	$ 0.25	$ 0.07	$ 0.34	$ 0.65	$ 25.94	$ 22.01	$ 2.82	$ 0.25	$ 0.07	$ 0.34	$ 0.65	$ 26.14	$ 0.20	0.8%	25.94	26.14
4																				
5	0	250	$ 29.62	$ 7.05	$ 0.62	$ 0.17	$ 0.86	$ 0.98	$ 39.28	$ 30.10	$ 7.05	$ 0.62	$ 0.17	$ 0.86	$ 0.99	$ 39.78	$ 0.50	1.3%	15.71	15.91
6																				
7	0	500	$ 42.62	$ 14.09	$ 1.23	$ 0.33	$ 1.72	$ 1.54	$ 61.52	$ 43.59	$ 14.09	$ 1.23	$ 0.33	$ 1.72	$ 1.56	$ 62.52	$ 0.99	1.6%	12.30	12.50
8																				
9	0	750	$ 55.62	$ 21.14	$ 1.85	$ 0.50	$ 2.57	$ 2.09	$ 83.76	$ 57.07	$ 21.14	$ 1.85	$ 0.50	$ 2.57	$ 2.13	$ 85.25	$ 1.49	1.8%	11.17	11.37
10																				
11	0	1,000	$ 68.62	$ 28.18	$ 2.46	$ 0.66	$ 3.43	$ 2.65	$ 106.00	$ 70.56	$ 28.18	$ 2.46	$ 0.66	$ 3.43	$ 2.70	$ 107.99	$ 1.99	1.9%	10.60	10.80
12																				
13	0	1,250	$ 84.39	$ 37.73	$ 3.08	$ 0.83	$ 4.29	$ 3.34	$ 133.64	$ 86.54	$ 37.73	$ 3.08	$ 0.83	$ 4.29	$ 3.40	$ 135.85	$ 2.21	1.7%	10.69	10.87
14																				
15	0	1,500	$ 100.16	$ 47.27	$ 3.69	$ 0.99	$ 5.15	$ 4.03	$ 161.29	$ 102.53	$ 47.27	$ 3.69	$ 0.99	$ 5.15	$ 4.09	$ 163.72	$ 2.43	1.5%	10.75	10.91
16																				
17	0	2,000	$ 131.70	$ 66.36	$ 4.92	$ 1.32	$ 6.86	$ 5.41	$ 216.57	$ 134.50	$ 66.36	$ 4.92	$ 1.32	$ 6.86	$ 5.49	$ 219.44	$ 2.87	1.3%	10.83	10.97
18																				
19	0	3,000	$ 194.78	$ 104.54	$ 7.38	$ 1.98	$ 10.29	$ 8.18	$ 327.15	$ 198.43	$ 104.54	$ 7.38	$ 1.98	$ 10.29	$ 8.27	$ 330.90	$ 3.75	1.1%	10.90	11.03
20																				
21	0	5,000	$ 320.94	$ 180.90	$ 12.30	$ 3.30	$ 17.15	$ 13.71	$ 548.30	$ 326.31	$ 180.90	$ 12.30	$ 3.30	$ 17.15	$ 13.85	$ 553.81	$ 5.51	1.0%	10.97	11.08

	PRESENT		PROPOSED	
CUSTOMER CHARGE	16.62	$/Bill	16.62	$/Bill
DEMAND CHARGE	-	$/KW	-	$/KW
ENERGY CHARGE				
0 - 1,000 KWH	5.200	¢/kWH	5.394	¢/kWH
Over 1,000 KWH	6.308	¢/kWH	6.394	¢/kWH
FUEL CHARGE				
0 - 1,000 KWH	2.818	¢/kWH	2.818	¢/kWH
Over 1,000 KWH	3.818	¢/kWH	3.818	¢/kWH
CONSERVATION CHARGE	0.246	¢/kWH	0.246	¢/kWH
CAPACITY CHARGE	0.066	¢/kWH	0.066	¢/kWH
ENVIRONMENTAL CHARGE	0.343	¢/kWH	0.343	¢/kWH

Note: Cost recovery clause factors are the current 2018 factors. 2018 fuel clause factors used for both PRESENT and PROPOSED bills above includes the fuel benefit of Tranche #1 of SoBRA.

Supporting Schedules: E-13c, E-14 Supplement | Recap Schedules:

TAMPA ELECTRIC COMPANY
DOCKET NO. 2017____-EI
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SOBRA
12CP and 1/13 With 40% Allocation to Lighting
All Demand

SCHEDULE A-2 | FULL REVENUE REQUIREMENTS BILL COMPARISON - TYPICAL MONTHLY BILLS | Page 2 of 4

FLORIDA PUBLIC SERVICE COMMISSION | EXPLANATION: For each rate, calculate typical monthly bills for present rates and proposed rates. | Type of data shown: XX Projected Test year Ended 12/31/2018

COMPANY: TAMPA ELECTRIC COMPANY

GS - GENERAL SERVICE NON-DEMAND

Line No.	RATE SCHEDULE GS (1) TYPICAL KW	(2) KWH	BILL UNDER PRESENT RATES (3) BASE RATE	(4) FUEL CHARGE	(5) ECCR CHARGE	(6) CAPACITY CHARGE	(7) ECRC CHARGE	(8) GRT CHARGE	(9) TOTAL	BILL UNDER PROPOSED RATES (10) BASE RATE	(11) FUEL CHARGE	(12) ECCR CHARGE	(13) CAPACITY CHARGE	(14) ECRC CHARGE	(15) GRT CHARGE	(16) TOTAL	INCREASE (17) DOLLARS (16)-(9)	(18) PERCENT (17)/(9)	COSTS IN CENTS/KWH (19) PRESENT (9)/(2)*100	(20) PROPOSED (16)/(2)*100
1	0	-	$ 19.94	$ -	$ -	$ -	$ -	$ 0.51	$ 20.45	$ 19.94	$ -	$ -	$ -	$ -	$ 0.51	$ 20.45	$ -	0.0%	-	-
2																				
3	0	100	$ 25.49	$ 3.13	$ 0.23	$ 0.06	$ 0.34	$ 0.75	$ 30.01	$ 25.63	$ 3.13	$ 0.23	$ 0.06	$ 0.34	$ 0.75	$ 30.15	$ 0.15	0.5%	30.01	30.15
4																				
5	0	250	$ 33.81	$ 7.83	$ 0.58	$ 0.15	$ 0.86	$ 1.11	$ 44.34	$ 34.17	$ 7.83	$ 0.58	$ 0.15	$ 0.86	$ 1.12	$ 44.70	$ 0.36	0.8%	17.74	17.88
6																				
7	0	500	$ 47.69	$ 15.66	$ 1.16	$ 0.30	$ 1.72	$ 1.71	$ 68.23	$ 48.39	$ 15.66	$ 1.16	$ 0.30	$ 1.72	$ 1.72	$ 68.95	$ 0.73	1.1%	13.65	13.79
8																				
9	0	750	$ 61.56	$ 23.49	$ 1.74	$ 0.45	$ 2.57	$ 2.30	$ 92.11	$ 62.62	$ 23.49	$ 1.74	$ 0.45	$ 2.57	$ 2.33	$ 93.20	$ 1.09	1.2%	12.28	12.43
10																				
11	0	1,000	$ 75.43	$ 31.32	$ 2.32	$ 0.60	$ 3.43	$ 2.90	$ 116.00	$ 76.85	$ 31.32	$ 2.32	$ 0.60	$ 3.43	$ 2.94	$ 117.45	$ 1.45	1.3%	11.60	11.75
12																				
13	0	1,250	$ 89.30	$ 39.15	$ 2.90	$ 0.75	$ 4.29	$ 3.50	$ 139.89	$ 91.08	$ 39.15	$ 2.90	$ 0.75	$ 4.29	$ 3.54	$ 141.71	$ 1.82	1.3%	11.19	11.34
14																				
15	0	1,500	$ 103.18	$ 46.98	$ 3.48	$ 0.90	$ 5.15	$ 4.09	$ 163.77	$ 105.30	$ 46.98	$ 3.48	$ 0.90	$ 5.15	$ 4.15	$ 165.96	$ 2.18	1.3%	10.92	11.06
16																				
17	0	2,000	$ 130.92	$ 62.64	$ 4.64	$ 1.20	$ 6.86	$ 5.29	$ 211.55	$ 133.76	$ 62.64	$ 4.64	$ 1.20	$ 6.86	$ 5.36	$ 214.46	$ 2.91	1.4%	10.58	10.72
18																				
19	0	3,000	$ 186.41	$ 93.96	$ 6.96	$ 1.80	$ 10.29	$ 7.68	$ 307.10	$ 190.66	$ 93.96	$ 6.96	$ 1.80	$ 10.29	$ 7.79	$ 311.46	$ 4.36	1.4%	10.24	10.38
20																				
21	0	5,000	$ 297.39	$ 156.60	$ 11.60	$ 3.00	$ 17.15	$ 12.45	$ 498.19	$ 304.48	$ 156.60	$ 11.60	$ 3.00	$ 17.15	$ 12.64	$ 505.47	$ 7.27	1.5%	9.96	10.11
22																				
23	0	8,500	$ 491.61	$ 266.22	$ 19.72	$ 5.10	$ 29.16	$ 20.82	$ 832.62	$ 503.66	$ 266.22	$ 19.72	$ 5.10	$ 29.16	$ 21.12	$ 844.98	$ 12.36	1.5%	9.80	9.94

	PRESENT	PROPOSED
CUSTOMER CHARGE	19.94 $/Bill	19.94 $/Bill
ENERGY CHARGE	5.549 ¢/kWH	5.691 ¢/kWH
FUEL CHARGE	3.132 ¢/kWH	3.132 ¢/kWH
CONSERVATION CHARGE	0.232 ¢/kWH	0.232 ¢/kWH
CAPACITY CHARGE	0.060 ¢/kWH	0.060 ¢/kWH
ENVIRONMENTAL CHARGE	0.343 ¢/kWH	0.343 ¢/kWH

Note: Cost recovery clause factors are the current 2018 factors. 2018 fuel clause factors used for both PRESENT and PROPOSED bills above includes the fuel benefit of Tranche #1 of SoBRA.

Supporting Schedules: E-13c, E-14 Supplement | Recap Schedules:

TAMPA ELECTRIC COMPANY
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SOBRA
12CP and 1/13 With 40% Allocation to Lighting
All Demand

aw | FULL REVENUE REQUIREMENTS BILL COMPARISON - TYPICAL MONTHLY BILLS | Page 3 of 4

FLORIDA PUBLIC SERVICE COMMISSION | EXPLANATION: For each rate, calculate typical monthly bills for present rates and proposed rates. | Type of data shown: XX Projected Test year Ended 12/31/2018

COMPANY: TAMPA ELECTRIC COMPANY

GSD - GENERAL SERVICE DEMAND

Line No.	RATE SCHEDULE GSD (1) TYPICAL KW	(2) KWH	BILL UNDER PRESENT RATES (3) BASE RATE	(4) FUEL CHARGE	(5) ECCR CHARGE	(6) CAPACITY CHARGE	(7) ECRC CHARGE	(8) GRT CHARGE	(9) TOTAL	BILL UNDER PROPOSED RATES (10) BASE RATE	(11) FUEL CHARGE	(12) ECCR CHARGE	(13) CAPACITY CHARGE	(14) ECRC CHARGE	(15) GRT CHARGE	(16) TOTAL	INCREASE (17) DOLLARS (16)-(9)	(18) PERCENT (17)/(9)	COSTS IN CENTS/KWH (19) PRESENT (9)/(2)*100	(20) PROPOSED (16)/(2)*100
1	75	10,950	$ 762.51	$ 342.95	$ 22.01	$ 5.15	$ 37.45	$ 30.00	$ 1,200.07	$ 781.02	$ 342.95	$ 22.01	$ 5.15	$ 37.45	$ 30.48	$ 1,219.05	$ 18.98	1.6%	10.96	11.13
2	75	19,163	$ 1,138.10	$ 600.17	$ 65.25	$ 15.00	$ 65.54	$ 48.31	$ 1,932.36	$ 1,174.85	$ 600.17	$ 65.25	$ 15.00	$ 65.54	$ 49.25	$ 1,970.06	$ 37.69	2.0%	10.08	10.28
3	75	32,850	$ 1,378.18	$ 1,028.86	$ 65.25	$ 15.00	$ 112.35	$ 66.66	$ 2,666.30	$ 1,414.93	$ 1,028.86	$ 65.25	$ 15.00	$ 112.35	$ 67.60	$ 2,703.99	$ 37.69	1.4%	8.12	8.23
4	75	49,275	$ 1,620.78	$ 1,536.27	$ 65.25	$ 15.00	$ 168.52	$ 87.33	$ 3,493.15	$ 1,658.03	$ 1,536.27	$ 65.25	$ 15.00	$ 168.52	$ 88.28	$ 3,531.35	$ 38.21	1.1%	7.09	7.17
5																				
6	500	73,000	$ 4,895.04	$ 2,286.36	$ 146.73	$ 34.31	$ 249.66	$ 195.18	$ 7,807.28	$ 5,018.41	$ 2,286.36	$ 146.73	$ 34.31	$ 249.66	$ 198.35	$ 7,933.82	$ 126.53	1.6%	10.69	10.87
7	500	127,750	$ 7,398.98	$ 4,001.13	$ 435.00	$ 100.00	$ 436.91	$ 317.23	$ 12,689.24	$ 7,643.98	$ 4,001.13	$ 435.00	$ 100.00	$ 436.91	$ 323.51	$ 12,940.52	$ 251.28	2.0%	9.93	10.13
8	500	219,000	$ 8,999.50	$ 6,859.08	$ 435.00	$ 100.00	$ 748.98	$ 439.55	$ 17,582.11	$ 9,244.50	$ 6,859.08	$ 435.00	$ 100.00	$ 748.98	$ 445.83	$ 17,833.39	$ 251.28	1.4%	8.03	8.14
9	500	328,500	$ 10,616.81	$ 10,241.81	$ 435.00	$ 100.00	$ 1,123.47	$ 577.36	$ 23,094.45	$ 10,865.16	$ 10,241.81	$ 435.00	$ 100.00	$ 1,123.47	$ 583.73	$ 23,349.17	$ 254.72	1.1%	7.03	7.11
10																				
11	2000	292,000	$ 19,480.44	$ 9,145.44	$ 586.92	$ 137.24	$ 998.64	$ 778.17	$ 31,126.85	$ 19,973.92	$ 9,145.44	$ 586.92	$ 137.24	$ 998.64	$ 790.82	$ 31,632.98	$ 506.13	1.6%	10.66	10.83
12	2000	511,000	$ 29,496.18	$ 16,004.52	$ 1,740.00	$ 400.00	$ 1,747.62	$ 1,266.37	$ 50,654.69	$ 30,476.18	$ 16,004.52	$ 1,740.00	$ 400.00	$ 1,747.62	$ 1,291.49	$ 51,659.81	$ 1,005.13	2.0%	9.91	10.11
13	2000	876,000	$ 35,898.28	$ 27,436.32	$ 1,740.00	$ 400.00	$ 2,995.92	$ 1,755.65	$ 70,226.17	$ 36,878.28	$ 27,436.32	$ 1,740.00	$ 400.00	$ 2,995.92	$ 1,780.78	$ 71,231.30	$ 1,005.13	1.4%	8.02	8.13
14	2000	1,314,000	$ 42,367.52	$ 40,967.24	$ 1,740.00	$ 400.00	$ 4,493.88	$ 2,306.89	$ 92,275.52	$ 43,360.92	$ 40,967.24	$ 1,740.00	$ 400.00	$ 4,493.88	$ 2,332.36	$ 93,294.39	$ 1,018.87	1.1%	7.02	7.10
15																				
16																				

Line No.		PRESENT GSD	PRESENT GSDT		PRESENT GSD OPT.		PROPOSED GSD	PROPOSED GSDT		PROPOSED GSD OPT.	
17											
18											
19	CUSTOMER CHARGE	33.24	33.24	$/Bill	33.24	$/Bill	33.24	33.24		33.24	$/Bill
20	DEMAND CHARGE	10.25	-	$/KW	-	$/KW	10.74	-	$/KW	-	$/KW
21	BILLING	-	3.46	$/KW	-	$/KW	-	3.63	$/KW	-	$/KW
22	PEAK	-	6.79	$/KW	-	$/KW	-	7.12	$/KW	-	$/KW
23	ENERGY CHARGE	1.754	-	¢/KWH	6.660	¢/KWH	1.754	-	¢/KWH	6.829	¢/KWH
24	ON-PEAK	-	3.211	¢/KWH	-	¢/KWH	-	3.211	¢/KWH	-	¢/KWH
25	OFF-PEAK	-	1.159	¢/KWH	-	¢/KWH	-	1.159	¢/KWH	-	¢/KWH
26	FUEL CHARGE	3.132	-	¢/KWH	3.132	¢/KWH	3.132	-	¢/KWH	3.132	¢/KWH
27	ON-PEAK		3.330	¢/KWH	-	¢/KWH		3.330	¢/KWH	-	¢/KWH
28	OFF-PEAK		3.047	¢/KWH	-	¢/KWH		3.047	¢/KWH	-	¢/KWH
29	CONSERVATION CHARGE	0.87	0.87	$/KW	0.201	¢/KWH	0.87	0.87	$/KW	0.201	¢/KWH
30	CAPACITY CHARGE	0.20	0.20	$/KW	0.047	¢/KWH	0.20	0.20	$/KW	0.047	¢/KWH
31	ENVIRONMENTAL CHARGE	0.342	0.342	¢/KWH	0.342	¢/KWH	0.342	0.342	¢/KWH	0.342	¢/KWH
32											

33 Notes:
34 A. The kWh for each kW group is based on 20, 35, 60, and 90% load factors (LF).
35 B. Charges at 20% LF are based on the GSD Option rate; 35% and 60% LF charges are based on the standard rate; and 90% LF charges are based on the TOD rate.
36 C. All calculations assume meter and service at secondary voltage.
37 D. TOD energy charges assume 25/75 on/off-peak % for 90% LF. Peak demand to billing demand ratios are assumed to be 99% at 90% LF.
38 E. Cost recovery clause factors are the current 2018 factors. 2018 fuel clause factors used for both PRESENT and PROPOSED bills above includes the fuel benefit of Tranche #1 of SoBRA.
39

Supporting Schedules: E-13c, E-14 Supplement | Recap Schedules:

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SOBRA
12CP and 1/13 with 40% Allocation to Lighting
All Demand

SCHEDULE A-2 | FULL REVENUE REQUIREMENTS BILL COMPARISON - TYPICAL MONTHLY BILLS | Page 4 of 4

FLORIDA PUBLIC SERVICE COMMISSION | EXPLANATION: For each rate, calculate typical monthly bills for present rates and proposed rates. | Type of data shown: XX Projected Test year Ended 12/31/2018

COMPANY: TAMPA ELECTRIC COMPANY

IS - INTERRUPTIBLE SERVICE

Line No.	RATE SCHEDULE IS-1 (1) TYPICAL KW	(2) KWH	BILL UNDER PRESENT RATES (3) BASE RATE	(4) CCV CREDIT	(5) FUEL CHARGE	(6) ECCR CHARGE	(7) CAPACITY CHARGE	(8) ECRC CHARGE	(9) GRT CHARGE	(10) TOTAL	BILL UNDER PROPOSED RATES (11) BASE RATE	(12) CCV CREDIT	(13) FUEL CHARGE	(14) ECCR CHARGE	(15) CAPACITY CHARGE	(16) ECRC CHARGE	(17) GRT CHARGE	(18) TOTAL	INCREASE (19) DOLLARS (16)-(9)	(20) PERCENT (17)/(9)	COSTS IN CENTS/KWH (21) PRESENT (9)/(2)*100	(22) FINAL (16)/(2)*100
1	500	127,750	$ 5,038	$ (1,772.75)	$ 3,961.53	$ 335.00	$ 70.00	$ 425.79	$ 207	$ 8,264	$ 5,283	$ (1,772.75)	$ 3,961.53	$ 335.00	$ 70.00	$ 425.41	$ 212.87	$ 8,514.95	$ 251	3.0%	6.47	6.67
2	500	219,000	$ 7,569	$ (3,039.00)	$ 6,791.19	$ 335.00	$ 70.00	$ 729.93	$ 319	$ 12,776	$ 7,814	$ (3,039.00)	$ 6,791.19	$ 335.00	$ 70.00	$ 729.27	$ 325.66	$ 13,026.29	$ 251	2.0%	5.83	5.95
3	500	328,500	$ 10,607	$ (4,558.50)	$ 10,140.80	$ 335.00	$ 70.00	$ 1,093.91	$ 454	$ 18,141	$ 10,852	$ (4,558.50)	$ 10,140.80	$ 335.00	$ 70.00	$ 1,093.91	$ 459.82	$ 18,392.72	$ 251	1.4%	5.52	5.60
4																						
5	1,000	255,500	$ 9,387	$ (3,545.50)	$ 7,923.06	$ 670.00	$ 140.00	$ 851.58	$ 396	$ 15,821	$ 9,877	$ (3,545.50)	$ 7,923.06	$ 670.00	$ 140.00	$ 850.82	$ 408.08	$ 16,323.13	$ 502	3.2%	6.19	6.39
6	1,000	438,000	$ 14,449	$ (6,078.00)	$ 13,582.38	$ 670.00	$ 140.00	$ 1,459.85	$ 621	$ 24,845	$ 14,939	$ (6,078.00)	$ 13,582.38	$ 670.00	$ 140.00	$ 1,458.54	$ 633.64	$ 25,345.79	$ 501	2.0%	5.67	5.79
7	1,000	657,000	$ 20,524	$ (9,117.00)	$ 20,281.59	$ 670.00	$ 140.00	$ 2,187.81	$ 889	$ 35,576	$ 21,014	$ (9,117.00)	$ 20,281.59	$ 670.00	$ 140.00	$ 2,187.81	$ 901.97	$ 36,078.66	$ 503	1.4%	5.41	5.49
8																						
9	5,000	1,277,500	$ 44,177	$ (17,727.50)	$ 39,615.28	$ 3,350.00	$ 700.00	$ 4,257.91	$ 1,907	$ 76,280	$ 46,627	$ (17,727.50)	$ 39,615.28	$ 3,350.00	$ 700.00	$ 4,254.08	$ 1,969.71	$ 78,788.52	$ 2,509	3.3%	5.97	6.17
10	5,000	2,190,000	$ 69,490	$ (30,390.00)	$ 67,911.90	$ 3,350.00	$ 700.00	$ 7,299.27	$ 3,035	$ 121,396	$ 71,940	$ (30,390.00)	$ 67,911.90	$ 3,350.00	$ 700.00	$ 7,292.70	$ 3,097.54	$ 123,901.85	$ 2,506	2.1%	5.54	5.66
11	5,000	3,285,000	$ 99,865	$ (45,585.00)	$ 101,407.95	$ 3,350.00	$ 700.00	$ 10,939.05	$ 4,376	$ 175,053	$ 102,315	$ (45,585.00)	$ 101,407.95	$ 3,350.00	$ 700.00	$ 10,939.05	$ 4,439.15	$ 177,566.16	$ 2,513	1.4%	5.33	5.41
12																						

		PRESENT IS	PRESENT IST		PROPOSED IS	PROPOSED IST	
13							
14							
15	CUSTOMER CHARGE	689.11	689.11	$/Bill	689.11	689.11	$/Bill
16	DEMAND CHARGE	1.61	1.61	$/KW	2.10	2.10	$/KW
17	PEAK DEMAND CHARGE	-	-	$/KW	-	-	$/KW
	ENERGY CHARGE	2.774	-	¢/kWH	2.774	-	¢/kWH
18	ON-PEAK ENERGY CHARGE	-	2.774	¢/kWH	-	2.774	¢/kWH
19	OFF-PEAK ENERGY CHARGE	-	2.774	¢/kWH	-	2.774	¢/kWH
20	DELIVERY VOLTAGE CREDIT	-	-	$/KW	-	-	$/KW
21	FUEL CHARGE	3.101	-	¢/kWH	3.101	-	¢/kWH
22	ON-PEAK	-	3.297	¢/kWH	-	3.297	¢/kWH
23	OFF-PEAK	-	3.017	¢/kWH	-	3.017	¢/kWH
24	CONSERVATION CHARGE	0.67	0.67	$/KW	0.67	0.67	$/KW
25	CAPACITY CHARGE	0.14	0.14	$/KW	0.14	0.14	$/KW
26	ENVIRONMENTAL CHARGE	0.333	0.333	¢/kWH	0.333	0.333	¢/kWH
27							
28	GSLM-2 CONTRACT CREDIT VALUE	(10.13)	(10.13)	$/kW	(10.13)	(10.13)	$/kW
29							

30 Notes:
31 A. The kWh for each kW group is based on 35, 60, and 90% load factors (LF).
32 B. Charges at 35% and 60% LF are based on standard rates and charges at 90% LF are based on TOD rates. Peak demand to billing demand ratios are assumed to be 99% at 90% LF.
33 C. Calculations assume meter and service at primary voltage and a power factor of 85%.
34 D. TOD energy charges assume 25/75 on/off-peak % for 90% LF.
35 E. CCV credits in columns 5 and 12 are load-factor adjusted and reflect service at primary voltage.
36 F. Cost recovery clause factors are the current 2018 factors. 2018 fuel clause factors used for both PRESENT and PROPOSED bills above includes the fuel benefit of Tranche #1 of SoBRA.
37 G. The present GSLM-2 Contract Credit Value represents the 2018 factor. The proposed GSLM-2 Contract Credit Value for 2018 is the same.
38
39

Supporting Schedules: E-13c, E-14 Supplement | Recap Schedules:

TAMPA ELECTRIC COMPANY
DOCKET NO. 2017____-EI
EXHIBIT NO. ____ (WRA-1)
WITNESS: ASHBURN
DOCUMENT NO. 4
PAGE 4 OF 4
FILED: 12/14/2017

TAMPA ELECTRIC COMPANY
DOCKET NO. 2017_____-EI
EXHIBIT NO. ___ (WRA-1)
WITNESS: ASHBURN
DOCUMENT NO. 5

Redlined Tariffs

Reflecting First SoBRA Base Revenue Increase

TECO TAMPA ELECTRIC AN EMERA COMPANY

TWENTY-~~SECOND~~ THIRD REVISED SHEET NO. 6.030
CANCELS TWENTY-~~FIRST~~ SECOND REVISED SHEET NO. 6.030

RESIDENTIAL SERVICE

SCHEDULE: RS

AVAILABLE: Entire service area.

APPLICABLE: To residential consumers in individually metered private residences, apartment units, and duplex units. All energy must be for domestic purposes and should not be shared with or sold to others. In addition, energy used in commonly-owned facilities in condominium and cooperative apartment buildings will qualify for this rate schedule, subject to the following criteria:

1. 100% of the energy is used exclusively for the co-owners' benefit.
2. None of the energy is used in any endeavor which sells or rents a commodity or provides service for a fee.
3. Each point of delivery will be separately metered and billed.
4. A responsible legal entity is established as the customer to whom the Company can render its bills for said service.

Resale not permitted.

Billing charges shall be prorated for billing periods that are less than 25 days or greater than 35 days. If the billing period exceeds 35 days and the billing extension causes energy consumption, based on average daily usage, to exceed 1,000 kWh, the excess consumption will be charged at the lower monthly Energy and Demand Charge.

LIMITATION OF SERVICE: This schedule includes service to single phase motors rated up to 7.5 HP. Three phase service may be provided where available for motors rated 7.5 HP and over.

MONTHLY RATE:

Basic Service Charge:
$16.62

Energy and Demand Charge:

First 1,000 kWh	5.~~200~~394¢ per kWh
All additional kWh	6.~~308~~394¢ per kWh

MINIMUM CHARGE: The Basic Service Charge.

FUEL CHARGE: See Sheet Nos. 6.020 and 6.021.

Continued to Sheet No. 6.031

ISSUED BY: ~~G. L. Gillette~~N. G. Tower, President

DATE EFFECTIVE: ~~June 5, 2017~~

TECO TAMPA ELECTRIC AN EMERA COMPANY

TECO TAMPA ELECTRIC AN EMERA COMPANY

TWENTY-~~THIRD~~ FOURTH REVISED SHEET NO. 6.050
CANCELS TWENTY-~~SECOND~~ THIRD REVISED SHEET NO. 6.050

GENERAL SERVICE - NON DEMAND

SCHEDULE: GS

AVAILABLE: Entire service area.

APPLICABLE: For lighting and power in establishments not classified as residential whose energy consumption has not exceeded 9,000 kWh in any one of the prior twelve (12) consecutive billing periods ending with the current billing period. For any billing period that exceeds 35 days, the energy consumption shall be prorated to that of a 30-day amount for purposes of administering this requirement. Resale not permitted.

CHARACTER OF SERVICE: Single or 3 phase, 60 cycles and approximately 120 volts or higher, at Company's option.

LIMITATION OF SERVICE: All service under this rate shall be furnished through one meter. Standby service permitted on Schedule GST only.

MONTHLY RATE:

Basic Service Charge:

Metered accounts	$19.94
Un-metered accounts	$16.62

Energy and Demand Charge:
5.~~549~~691¢ per kWh

MINIMUM CHARGE: The Basic Service Charge.

EMERGENCY RELAY POWER SUPPLY CHARGE: The monthly charge for emergency relay power supply service shall be 0.167¢ per kWh of billing energy. This charge is in addition to the compensation the customer must make to the Company as a contribution-in-aid of construction.

Continued to Sheet No. 6.051

ISSUED BY: ~~G. L. Gillette~~N. G. Tower, President

DATE EFFECTIVE: ~~January 16, 2017~~

TECO TAMPA ELECTRIC AN EMERA COMPANY

TWENTY-~~SECOND~~ THIRD REVISED SHEET NO. 6.080
CANCELS TWENTY-~~FIRST~~ SECOND REVISED SHEET NO. 6.080

GENERAL SERVICE - DEMAND

SCHEDULE: GSD

AVAILABLE: Entire service area.

APPLICABLE: To any customer whose energy consumption has exceeded 9,000 kWh in any one of the prior twelve (12) consecutive billing periods ending with the current billing period. Also available to customers with energy consumption at any level below 9,000 kWh per billing period who agree to remain on this rate for at least twelve (12) months. For any billing period that exceeds 35 days, the energy consumption shall be prorated to that of a 30-day amount for purposes of administering this requirement. Resale not permitted.

CHARACTER OF SERVICE: A-C; 60 cycles; 3 phase; at any standard Company voltage.

LIMITATION OF SERVICE: Standby service is permitted only for customers who generate less than 20% of their on-site load requirements or whose generating equipment is used for emergency purposes.

MONTHLY RATE:

STANDARD		OPTIONAL	
Basic Service Charge:		Basic Service Charge:	
Secondary Metering Voltage	$ 33.24	Secondary Metering Voltage	$ 33.24
Primary Metering Voltage	$ 144.03	Primary Metering Voltage	$ 144.03
Subtrans. Metering Voltage	$1,096.82	Subtrans. Metering Voltage	$1,096.82
Demand Charge:		Demand Charge:	
$10.~~25~~ 74 per kW of billing demand		$0.00 per kW of billing demand	
Energy Charge:		Energy Charge:	
1.754¢ per kWh		6.~~660~~829¢ per kWh	

The customer may select either standard or optional. Once an option is selected, the customer must remain on that option for twelve (12) consecutive months.

Continued to Sheet No. 6.081

ISSUED BY: ~~G. L. Gillette~~N. G. Tower, President

DATE EFFECTIVE: ~~January 16, 2017~~

TECO TAMPA ELECTRIC AN EMERA COMPANY

~~SEVENTH~~ EIGHTH REVISED SHEET NO. 6.082
CANCELS ~~SIXTH~~ SEVENTH REVISED SHEET NO. 6.082

Continued from Sheet No. 6.081

When a customer under the optional rate takes service at primary voltage, a discount of 0.~~220~~226¢ per kWh will apply. A discount of 0.~~672~~689¢ per kWh will apply when a customer under the optional rate takes service at subtransmission or higher voltage.

EMERGENCY RELAY POWER SUPPLY CHARGE: The monthly charge for emergency relay power supply service shall be 66¢ per kW of billing demand for customers taking service under the standard rate and 0.167¢/kWh for customer taking service under the optional rate. This charge is in addition to the compensation the customer must make to the Company as a contribution-in-aid of construction.

FUEL CHARGE: See Sheet Nos. 6.020 and 6.021.

ENERGY CONSERVATION CHARGE: See Sheet Nos. 6.020 and 6.021.

CAPACITY CHARGE: See Sheet Nos. 6.020 and 6.021.

ENVIRONMENTAL COST RECOVERY CHARGE: See Sheet Nos. 6.020 and 6.021.

FLORIDA GROSS RECEIPTS TAX: See Sheet No. 6.021.

FRANCHISE FEE CHARGE: See Sheet No. 6.021.

PAYMENT OF BILLS: See Sheet No. 6.022.

ISSUED BY: N. G. Tower, President **DATE EFFECTIVE:** ~~January 16, 2017~~

TECO TAMPA ELECTRIC AN EMERA COMPANY

~~TWENTIETH~~ TWENTY-FIRST
REVISED SHEET NO. 6.085
CANCELS ~~NINETEENTH~~ TWENTIETH
REVISED SHEET NO. 6.085

INTERRUPTIBLE SERVICE
(CLOSED TO NEW BUSINESS AS OF MAY 7, 2009)

SCHEDULE: IS

AVAILABLE: Entire Service Area.

APPLICABLE: To be eligible for service under Rate Schedule IS, a customer must have been taking interruptible service under rate schedules IS-1, IST-1, IS-3, IST-3, SBI-1, or SBI-3 on May 6, 2009 and have signed the Agreement for the Purchase of Industrial Load Management Service under Rate Schedule GSLM-2. When electric service is desired at more than one location, each such location or point of delivery shall be considered as a separate customer. Resale not permitted.

CHARACTER OF SERVICE: The electric energy supplied under this schedule is three phase primary voltage or higher.

LIMITATION OF SERVICE: Standby service is permitted only for customers who generate less than 20% of their on-site load requirements or whose generating equipment is used for emergency purposes.

MONTHLY RATE:

Basic Service Charge:

Primary Metering Voltage	$ 689.11
Subtransmission Metering Voltage	$2,627.94

Demand Charge:
$~~1.61~~2.10 per KW of billing demand

Energy Charge:
2.774¢ per KWH

Continued to Sheet No. 6.086

ISSUED BY: ~~G. L. Gillette~~N. G. Tower, President

DATE EFFECTIVE: ~~January 16, 2017~~

TECO TAMPA ELECTRIC AN EMERA COMPANY

TWENTY-~~EIGHTH~~ NINTH REVISED SHEET NO. 6.290
CANCELS TWENTY-~~SEVENTH~~ EIGHTH REVISED SHEET NO. 6.290

CONSTRUCTION SERVICE

SCHEDULE: CS

AVAILABLE: Entire service area.

APPLICABLE: Single phase temporary service used primarily for construction purposes.

LIMITATION OF SERVICE: Service is limited to construction poles and services installed under the TUG program. Construction poles are limited to a maximum of 70 amperes at 240 volts for construction poles. Larger (non-TUG) services and three phase service entrances must be served under the appropriate rate schedule, plus the cost of installing and removing the temporary facilities is required.

MONTHLY RATE:
Basic Service Charge: $19.94

Energy and Demand Charge: 5.~~549~~691¢ per kWh

MINIMUM CHARGE: The Basic Service Charge.

FUEL CHARGE: See Sheet Nos. 6.020 and 6.021.

ENERGY CONSERVATION CHARGE: See Sheet Nos. 6.020 and 6.021.

CAPACITY CHARGE: See Sheet Nos. 6.020 and 6.021.

ENVIRONMENTAL COST RECOVERY CHARGE: See Sheet Nos. 6.020 and 6.021.

FLORIDA GROSS RECEIPTS TAX: Sheet No. 6.021.

FRANCHISE FEE CHARGE: See Sheet No. 6.021.

MISCELLANEOUS: A Temporary Service Charge of $260.00 shall be paid upon application for the recovery of costs associated with providing, installing, and removing the company's temporary service facilities for construction poles. Where the Company is required to provide additional facilities other than a service drop or connection point to the Company's existing distribution system, the customer shall also pay, in advance, for the estimated cost of providing, installing and removing such additional facilities, excluding the cost of any portion of these facilities which will remain as a part of the permanent service.

PAYMENT OF BILLS: See Sheet No. 6.022.

ISSUED BY: ~~G. L. Gillette~~N. G. Tower, President

DATE EFFECTIVE: ~~January 16, 2017~~

TECO TAMPA ELECTRIC AN EMERA COMPANY

TECO TAMPA ELECTRIC AN EMERA COMPANY

TWENTY-~~SECOND~~ THIRD REVISED SHEET NO. 6.320
CANCELS TWENTY-~~FIRST~~ SECOND REVISED SHEET NO. 6.320

TIME-OF-DAY
GENERAL SERVICE - NON DEMAND
(OPTIONAL)

SCHEDULE: GST

AVAILABLE: Entire service area.

APPLICABLE: For lighting and power in establishments not classified as residential whose energy consumption has not exceeded 9,000 kWh in any one of the prior twelve (12) consecutive billing periods ending with the current billing period. All of the electric load requirements on the customer's premises must be metered at one (1) point of delivery. For any billing period that exceeds 35 days, the energy consumption shall be prorated to that of a 30-day amount for purposes of administering this requirement. Resale not permitted.

CHARACTER OF SERVICE: Single or 3 phase, 60 cycles and approximately 120 volts or higher, at Company's option.

LIMITATION OF SERVICE: All service under this rate shall be furnished through one meter. Standby service permitted.

MONTHLY RATE:

Basic Service Charge:
$22.16

Energy and Demand Charge:
~~15.188~~14.533¢ per kWh during peak hours
~~1.030~~1.545¢ per kWh during off-peak hours

Continued to Sheet No. 6.321

ISSUED BY: ~~G. L. Gillette~~N. G. Tower, President

DATE EFFECTIVE: ~~January 16, 2017~~

TECO TAMPA ELECTRIC AN EMERA COMPANY

TECO TAMPA ELECTRIC AN EMERA COMPANY

TWENTY-~~THIRD~~ FOURTH REVISED SHEET NO. 6.330
CANCELS TWENTY-~~SECOND~~ THIRD REVISED SHEET NO. 6.330

TIME-OF-DAY
GENERAL SERVICE - DEMAND
(OPTIONAL)

SCHEDULE: GSDT

AVAILABLE: Entire service area.

APPLICABLE: To any customer whose energy consumption has exceeded 9,000 kWh in any one of the prior twelve (12) consecutive billing periods ending with the current billing period. Also available to customers with energy consumption at any level below 9,000 kWh per billing period who agree to remain on this rate for at least twelve (12) months. For any billing period that exceeds 35 days, the consumption shall be prorated to that of a 30-day amount for purposes of administering this requirement. Resale not permitted.

CHARACTER OF SERVICE: A-C; 60 cycles; 3 phase; at any standard Company voltage.

LIMITATION OF SERVICE: Standby service is permitted only for customers who generate less than 20% of their on-site load requirements or whose generating equipment is used for emergency purposes.

MONTHLY RATE:

Basic Service Charge:

Secondary Metering Voltage	$ 33.24
Primary Metering Voltage	$ 144.03
Subtransmission Metering Voltage	$1,096.82

Demand Charge:

$3.~~46~~ 63 per kW of billing demand, plus
$~~6.79~~7.12 per kW of peak billing demand

Energy Charge:

3.211¢ per kWh during peak hours
1.159¢ per kWh during off-peak hours

Continued to Sheet No. 6.331

ISSUED BY: ~~G. L. Gillette~~N. G. Tower, President

DATE EFFECTIVE: ~~January 16, 2017~~

TECO TAMPA ELECTRIC AN EMERA COMPANY

TECO TAMPA ELECTRIC AN EMERA COMPANY

~~TWENTIETH~~ TWENTY-FIRST REVISED SHEET NO. 6.340
CANCELS ~~NINETEENTH~~ TWENTIETH REVISED SHEET NO. 6.340

TIME OF DAY
INTERRUPTIBLE SERVICE
(CLOSED TO NEW BUSINESS AS OF MAY 7, 2009)

SCHEDULE: IST

AVAILABLE: Entire Service Area.

APPLICABLE: To be eligible for service under Rate Schedule IST, a customer must have been taking interruptible service under rate schedules IS-1, IST-1, IS-3, IST-3, SBI-1, or SBI-3 on May 6, 2009 and have signed the Agreement for the Purchase of Industrial Load Management Service under Rate Schedule GSLM-2. When electric service is desired at more than one location, each such location or point of delivery shall be considered as a separate customer. Resale not permitted.

CHARACTER OF SERVICE: The electric energy supplied under this schedule is three phase primary voltage or higher.

LIMITATION OF SERVICE: Standby service is permitted only for customers who generate less than 20% of their on-site load requirements or whose generating equipment is used for emergency purposes.

Basic Service Charge:

Primary Metering Voltage	$ 689.11
Subtransmission Metering Voltage	$2,627.94

Demand Charge:
$~~1.61~~2.10 per KW of billing demand

Energy Charge:
2.774¢ per KWH

Continued to Sheet No. 6.345

ISSUED BY: ~~G. L. Gillette~~N. G. Tower, President

DATE EFFECTIVE: ~~January 16, 2017~~

TECO TAMPA ELECTRIC AN EMERA COMPANY

TECO TAMPA ELECTRIC AN EMERA COMPANY

~~EIGHTH~~ NINTH REVISED SHEET NO. 6.565
CANCELS ~~SEVENTH~~ EIGHTH REVISED SHEET NO. 6.565

Continued from Sheet No. 6.560

MONTHLY RATES:
Basic Service Charge: $16.62

Energy and Demand Charges: 5.~~549~~708¢ per kWh (for all pricing periods)

MINIMUM CHARGE: The Basic Service Charge.

FUEL CHARGE: See Sheet Nos. 6.020 and 6.021.

ENERGY CONSERVATION CHARGE: See Sheet Nos. 6.020 and 6.021.

CAPACITY CHARGE: See Sheet Nos. 6.020 and 6.021.

ENVIRONMENTAL COST RECOVERY CHARGE: See Sheet Nos. 6.020 and 6.021.

FLORIDA GROSS RECEIPTS TAX: See Sheet No. 6.021.

FRANCHISE FEE CHARGE: See Sheet No. 6.021.

PAYMENT OF BILLS: See Sheet No. 6.022.

DETERMINATION OF PRICING PERIODS: Pricing periods are established by season for weekdays and weekends. The pricing periods for price levels P_1 (Low Cost Hours), P_2 (Moderate Cost Hours) and P_3 (High Cost Hours) are as follows:

May through October	**P_1**	**P_2**	**P_3**
Weekdays	11 P.M. to 6 A.M.	6 A.M. to 1 P.M. 6 P.M. to 11 P.M.	1 P.M. to 6 P.M.
Weekends	11 P.M. to 6 A.M.	6 A.M. to 11 P.M.	----------
November through April	**P_1**	**P_2**	**P_3**
Weekdays	11 P.M. to 5 A.M.	5 A.M. to 6 A.M. 10 A.M. to 11 P.M.	6 A.M. to 10 A.M.
Weekends	11 P.M. to 6 A.M.	6 A.M. to 11 P.M.	----------

The pricing periods for price level P_4 (Critical Cost Hours) shall be determined at the sole discretion of the Company. Level P_4 hours shall not exceed 134 hours per year.

Continued to Sheet No. 6.570

ISSUED BY: ~~G. L. Gillette~~N. G. Tower, President

DATE EFFECTIVE: ~~January 16, 2017~~

TECO TAMPA ELECTRIC AN EMERA COMPANY

TECO TAMPA ELECTRIC AN EMERA COMPANY

~~THIRTEENTH~~ FOURTEENTH REVISED SHEET NO. 6.601
CANCELS ~~TWELFTH~~ THIRTEENTH REVISED SHEET NO. 6.601

Continued from Sheet No. 6.600

CHARGES FOR SUPPLEMENTAL SERVICE:

Demand Charge:
$10.~~25~~74 per kW-Month of Supplemental Billing Demand (Supplemental Billing Demand Charge)

Energy Charge:
1.754¢ per Supplemental kWh

DEFINITIONS OF THE USE PERIODS: All time periods stated in clock time. (Meters are programmed to automatically adjust for changes from standard to daylight saving time and vice-versa.)

	April 1 - October 31	November 1 - March 31
Peak Hours: (Monday-Friday)	12:00 Noon - 9:00 PM	6:00 AM - 10:00 AM and 6:00 PM - 10:00 PM

Off-Peak Hours: All other weekday hours, and all hours on Saturdays, Sundays, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day shall be off-peak.

BILLING UNITS:

Demand Units: Metered Demand - The highest measured 30-minute interval kW demand served by the company during the month.

Site Load - The highest kW total of Customer generation plus deliveries by the company less deliveries to the Company, occurring in the same 30-minute interval, during the month.

Normal Generation - The generation level equaled or exceeded by the Customer's generation 10% of the metered intervals during the previous twelve months.

Supplemental Billing Demand - The amount, if any, by which the highest Site Load during any 30-minute interval in the month exceeds Normal Generation, but no greater than Metered Demand.

Continued to Sheet No. 6.602

ISSUED BY: ~~G. L. Gillette~~N. G. Tower, President

DATE EFFECTIVE: ~~January 16, 2017~~

TECO TAMPA ELECTRIC AN EMERA COMPANY

TECO TAMPA ELECTRIC AN EMERA COMPANY

~~TENTH~~ ELEVENTH REVISED SHEET NO. 6.606
CANCELS ~~NINTH~~ TENTH REVISED SHEET NO. 6.606

Continued from Sheet No. 6.605

CHARGES FOR SUPPLEMENTAL SERVICE

Demand Charge:

$3.~~46~~63 per kW-Month of Supplemental Demand (Supplemental Billing Demand Charge), plus

$~~6.79~~7.12 per kW-Month of Supplemental Peak Demand (Supplemental Peak Billing Demand Charge)

Energy Charge:

3.211¢ per Supplemental kWh during peak hours

1.159¢ per Supplemental kWh during off-peak hours

DEFINITIONS OF THE USE PERIODS: All time periods stated in clock time. (Meters are programmed to automatically adjust for changes from standard to daylight saving time and vice-versa.)

	April 1 - October 31	November 1 - March 31
Peak Hours: (Monday-Friday)	12:00 Noon - 9:00 PM	6:00 AM - 10:00 AM and 6:00 PM - 10:00 PM

Off-Peak Hours: All other weekday hours, and all hours on Saturdays, Sundays, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day shall be off-peak.

BILLING UNITS:

Demand Units: Metered Demand - The highest measured 30-minute interval kW demand served by the Company during the month.

Metered Peak Demand - The highest measured 30-minute interval kW demand served by the Company during the peak hours.

Site Load - The highest kW total of Customer generation plus deliveries by the company less deliveries to the company, occurring in the same 30-minute interval, during the month.

Continued to Sheet No. 6.607

ISSUED BY: ~~G. L. Gillette~~N. G. Tower, President

DATE EFFECTIVE: ~~January 16, 2017~~

TECO TAMPA ELECTRIC AN EMERA COMPANY

~~EIGHTH~~ NINTH REVISED SHEET NO. 6.700
CANCELS ~~SEVENTH~~ EIGHTH REVISED SHEET NO. 6.700

INTERRUPTIBLE STANDBY AND SUPPLEMENTAL SERVICE
(CLOSED TO NEW BUSINESS AS OF MAY 7, 2009)

SCHEDULE: SBI

AVAILABLE: Entire service area.

APPLICABLE: Required for all self-generating customers eligible for service under rate schedules IS or IST whose generating capacity in kilowatts (exclusive of emergency generation equipment) exceeds 20% of their site load in kilowatts. Also available to self-generating customers eligible for service under rate schedules IS or IST whose generating capacity in kilowatts does not exceed 20% of their site load in kilowatts, but who agree to all the terms and conditions of this rate schedule. To be eligible for service under this rate schedule, a customer must have been taking interruptible service under rate schedules IS-1, IST-1, IS-3, IST-3, SBI-1, or SBI-3 on May 6, 2009 and have signed the Supplemental Tariff Agreement for the Purchase of Industrial Standby and Supplemental Load Management Rider Service. Resale not permitted.

CHARACTER OF SERVICE: The electric energy supplied under this schedule is three phase primary voltage or higher

LIMITATION OF SERVICE: A customer taking service under this tariff must sign the Tariff Agreement for the Purchase of Standby and Supplemental Service

MONTHLY RATE:

Basic Service Charge:

Primary Metering Voltage	$716.81
Subtransmission Metering Voltage	$2,655.64

Demand Charge:

$~~1.61~~2.10 per KW-Month of Supplemental Demand (Supplemental Demand Charge)
$1.61 per KW-Month of Standby Demand (Local Facilities Reservation Charge)

plus the greater of:
$1.33 per KW-Month of Standby Demand (Power Supply Reservation Charge); or
$0.53 per KW-Day of Actual Standby Billing Demand (Power Supply Demand Charge)

Continued to Sheet No. 6.705

ISSUED BY: ~~G. L. Gillette~~N. G. Tower, President

DATE EFFECTIVE: ~~January 16, 2017~~

TECO TAMPA ELECTRIC AN EMERA COMPANY

TECO TAMPA ELECTRIC

~~SIXTH~~ SEVENTH REVISED SHEET NO. 6.805
CANCELS ~~FIFTH~~ SIXTH REVISED SHEET NO. 6.805

Continued from Sheet No. 6.800

MONTHLY RATE:

High Pressure Sodium Fixture, Maintenance, and Base Energy Charges:

Rate Code			Lamp Size				Charges per Unit ($)			
					kWh				Base Energy[4]	
Dusk to Dawn	Timed Svc.	Description	Initial Lumens[2]	Lamp Wattage[3]	Dusk to Dawn	Timed Svc.	Fixture	Maint.	Dusk to Dawn	Timed Svc.
800	860	Cobra[1]	4,000	50	20	10	3.16	2.48	0.55	0.27
802	862	Cobra/Nema[1]	6,300	70	29	14	3.20	2.11	0.79	0.38
803	863	Cobra/Nema[1]	9,500	100	44	22	3.63	2.33	1.20	0.60
804	864	Cobra[1]	16,000	150	66	33	4.18	2.02	1.80	0.90
805	865	Cobra[1]	28,500	250	105	52	4.87	2.60	2.86	1.42
806	866	Cobra[1]	50,000	400	163	81	5.09	2.99	4.45	2.21
468	454	Flood[1]	28,500	250	105	52	5.37	2.60	2.86	1.42
478	484	Flood[1]	50,000	400	163	81	5.71	3.00	4.45	2.21
809	869	Mongoose[1]	50,000	400	163	81	6.50	3.02	4.45	2.21
509	508	Post Top (PT)[1]	4,000	50	20	10	3.98	2.48	0.55	0.27
570	530	Classic PT[1]	9,500	100	44	22	11.85	1.89	1.20	0.60
810	870	Coach PT[1]	6,300	70	29	14	4.71	2.11	0.79	0.38
572	532	Colonial PT[1]	9,500	100	44	22	11.75	1.89	1.20	0.60
573	533	Salem PT[1]	9,500	100	44	22	9.03	1.89	1.20	0.60
550	534	Shoebox[1]	9,500	100	44	22	8.01	1.89	1.20	0.60
566	536	Shoebox[1]	28,500	250	105	52	8.69	3.18	2.86	1.42
552	538	Shoebox[1]	50,000	400	163	81	9.52	2.44	4.45	2.21

[1] Closed to new business
[2] Lumen output may vary by lamp configuration and age.
[3] Wattage ratings do not include ballast losses.
[4] The Base Energy charges are calculated by multiplying the kWh times the lighting base energy rate of 2.~~727~~743¢ per kWh for each fixture.

Continued to Sheet No. 6.806

ISSUED BY: ~~G. L. Gillette~~N. G. Tower, President

DATE EFFECTIVE: ~~January 16, 2017~~

TECO TAMPA ELECTRIC AN EMERA COMPANY

TECO TAMPA ELECTRIC AN EMERA COMPANY

~~FOURTH~~ FIFTH REVISED SHEET NO. 6.806
CANCELS ~~THIRD~~ FOURTH REVISED SHEET NO. 6.806

Continued from Sheet No. 6.805

MONTHLY RATE:

Metal Halide Fixture, Maintenance, and Base Energy Charges:

Rate Code			Lamp Size				Charges per Unit ($)			
					kWh				Base Energy[4]	
Dusk to Dawn	Timed Svc.	Description	Initial Lumens[2]	Lamp Wattage[3]	Dusk to Dawn	Timed Svc.	Fixture	Maint.	Dusk to Dawn	Timed Svc.
704	724	Cobra[1]	29,700	350	138	69	7.53	4.99	3.76	1.88
520	522	Cobra[1]	32,000	400	159	79	6.03	4.01	4.34	2.15
705	725	Flood[1]	29,700	350	138	69	8.55	5.04	3.76	1.88
556	541	Flood[1]	32,000	400	159	79	8.36	4.02	4.34	2.15
558	578	Flood[1]	107,800	1,000	383	191	10.50	8.17	10.44	5.21
701	721	General PT[1]	12,000	150	67	34	10.60	3.92	1.83	0.93
574	548	General PT[1]	14,400	175	74	37	10.89	3.73	2.02	1.01
700	720	Salem PT[1]	12,000	150	67	34	9.33	3.92	1.83	0.93
575	568	Salem PT[1]	14,400	175	74	37	9.38	3.74	2.02	1.01
702	722	Shoebox[1]	12,000	150	67	34	7.22	3.92	1.83	0.93
564	549	Shoebox[1]	12,800	175	74	37	7.95	3.70	2.02	1.01
703	723	Shoebox[1]	29,700	350	138	69	9.55	4.93	3.76	1.88
554	540	Shoebox[1]	32,000	400	159	79	10.02	3.97	4.34	2.15
576	577	Shoebox[1]	107,800	1,000	383	191	16.50	8.17	10.44	5.21

[1] Closed to new business
[2] Lumen output may vary by lamp configuration and age.
[3] Wattage ratings do not include ballast losses.
[4] The Base Energy charges are calculated by multiplying the kWh times the lighting base energy rate of 2.~~727~~743¢ per kWh for each fixture.

Continued to Sheet No. 6.808

ISSUED BY: ~~G. L. Gillette~~N. G. Tower, President **DATE EFFECTIVE:** ~~January 16, 2017~~

TECO TAMPA ELECTRIC AN EMERA COMPANY

~~FOURTH~~ FIFTH REVISED SHEET NO. 6.808
CANCELS ~~THIRD~~ FOURTH REVISED SHEET NO. 6.808

Continued from Sheet No. 6.806

MONTHLY RATE:

LED Fixture, Maintenance, and Base Energy Charges:

Rate Code			Size				Charges per Unit ($)			
					kWh[1]				Base Energy[3]	
Dusk to Dawn	Timed Svc.	Description	Initial Lumens[1]	Lamp Wattage[2]	Dusk to Dawn	Timed Svc.	Fixture	Maintenance	Dusk to Dawn	Timed Svc.
828	848	Roadway	5,155	56	20	10	7.27	1.74	0.55	0.27
820	840	Roadway	7,577	103	36	18	11.15	1.19	0.98	0.49
821	841	Roadway	8,300	106	37	19	11.15	1.20	1.01	0.52
829	849	Roadway	15,285	157	55	27	11.10	2.26	1.50	0.74
822	842	Roadway	15,300	196	69	34	14.58	1.26	1.88	0.93
823	843	Roadway	14,831	206	72	36	16.80	1.38	1.96	0.98
835	855	Post Top	5,176	60	21	11	16.53	2.28	0.57	0.30
824	844	Post Top	3,974	67	24	12	19.67	1.54	0.65	0.33
825	845	Post Top	6,030	99	35	17	20.51	1.56	0.95	0.46
836	856	Post Top	7,360	100	35	18	16.70	2.28	0.95	0.49
830	850	Area-Lighter	14,100	152	53	27	14.85	2.51	1.45	0.74
826	846	Area-Lighter	13,620	202	71	35	19.10	1.41	1.94	0.95
827	847	Area-Lighter	21,197	309	108	54	20.60	1.55	2.95	1.47
831	851	Flood	22,122	238	83	42	15.90	3.45	2.26	1.15
832	852	Flood	32,087	359	126	63	19.16	4.10	3.44	1.72
833	853	Mongoose	24,140	245	86	43	14.71	3.04	2.35	1.17
834	854	Mongoose	32,093	328	115	57	16.31	3.60	3.14	1.55

[1] Average
[2] Average wattage. Actual wattage may vary by up to +/- 5 watts.
[3] The Base Energy charges are calculated by multiplying the kWh times the lighting base energy rate of 2.~~727~~743¢ per kWh for each fixture.

Continued to Sheet No. 6.810

ISSUED BY: ~~G. L. Gillette~~N. G. Tower, President **DATE EFFECTIVE:** ~~January 16, 2017~~

TECO TAMPA ELECTRIC AN EMERA COMPANY

TECO TAMPA ELECTRIC AN EMERA COMPANY

~~FOURTH~~ FIFTH REVISED SHEET NO. 6.815
CANCELS ~~THIRD~~ FOURTH REVISED SHEET NO. 6.815

Continued from Sheet No. 6.810

Miscellaneous Facilities Charges:

Rate Code	Description	Monthly Facility Charge	Monthly Maintenance Charge
563	Timer	$7.54	$1.43
569	PT Bracket (accommodates two post top fixtures)	$4.27	$0.06

NON-STANDARD FACILITIES AND SERVICES:

The customer shall pay all costs associated with additional company facilities and services that are not considered standard for providing lighting service, including but not limited to, the following:

1. relays;
2. distribution transformers installed solely for lighting service;
3. protective shields;
4. bird deterrent devices;
5. light trespass shields;
6. light rotations;
7. light pole relocations;
8. devices required by local regulations to control the levels or duration of illumination including associated planning and engineering costs;
9. removal and replacement of pavement required to install underground lighting cable; and
10. directional boring.

MINIMUM CHARGE: The monthly charge.

FUEL CHARGE: See Sheet Nos. 6.020 and 6.021.

ENERGY CONSERVATION CHARGE: See Sheet Nos. 6.020 and 6.021.

CAPACITY CHARGE: See Sheet Nos. 6.020 and 6.021

ENVIRONMENTAL COST RECOVERY CHARGE: See Sheet Nos. 6.020 and 6.021

FLORIDA GROSS RECEIPTS TAX: See Sheet No. 6.021

FRANCHISE FEE: See Sheet No. 6.021

PAYMENT OF BILLS: See Sheet No. 6.022

SPECIAL CONDITIONS:
On customer-owned public street and highway lighting systems not subject to other rate schedules, the monthly rate for energy served at primary or secondary voltage, at the company's option, shall be 2.~~727~~743¢ per kWh of metered usage, plus a Basic Service Charge of $11.62 per month and the applicable additional charges as specified on Sheet Nos. 6.020 and 6.021.

Continued to Sheet No. 6.820

TAMPA ELECTRIC COMPANY
DOCKET NO. 2017_____-EI
EXHIBIT NO. ___ (WRA-1)
WITNESS: ASHBURN
DOCUMENT NO. 6

Clean Tariffs

Reflecting First SoBRA Base Revenue Increase

TECO TAMPA ELECTRIC AN EMERA COMPANY

TWENTY-THIRD REVISED SHEET NO. 6.030
CANCELS TWENTY-SECOND REVISED SHEET NO. 6.030

RESIDENTIAL SERVICE

SCHEDULE: RS

AVAILABLE: Entire service area.

APPLICABLE: To residential consumers in individually metered private residences, apartment units, and duplex units. All energy must be for domestic purposes and should not be shared with or sold to others. In addition, energy used in commonly-owned facilities in condominium and cooperative apartment buildings will qualify for this rate schedule, subject to the following criteria:

1. 100% of the energy is used exclusively for the co-owners' benefit.
2. None of the energy is used in any endeavor which sells or rents a commodity or provides service for a fee.
3. Each point of delivery will be separately metered and billed.
4. A responsible legal entity is established as the customer to whom the Company can render its bills for said service.

Resale not permitted.

Billing charges shall be prorated for billing periods that are less than 25 days or greater than 35 days. If the billing period exceeds 35 days and the billing extension causes energy consumption, based on average daily usage, to exceed 1,000 kWh, the excess consumption will be charged at the lower monthly Energy and Demand Charge.

LIMITATION OF SERVICE: This schedule includes service to single phase motors rated up to 7.5 HP. Three phase service may be provided where available for motors rated 7.5 HP and over.

MONTHLY RATE:

Basic Service Charge:
$16.62

Energy and Demand Charge:

First 1,000 kWh	5.394¢ per kWh
All additional kWh	6.394¢ per kWh

MINIMUM CHARGE: The Basic Service Charge.

FUEL CHARGE: See Sheet Nos. 6.020 and 6.021.

Continued to Sheet No. 6.031

ISSUED BY: N. G. Tower, President

DATE EFFECTIVE:

TECO TAMPA ELECTRIC AN EMERA COMPANY

TWENTY-FOURTH REVISED SHEET NO. 6.050
CANCELS TWENTY-THIRD REVISED SHEET NO. 6.050

GENERAL SERVICE - NON DEMAND

SCHEDULE: GS

AVAILABLE: Entire service area.

APPLICABLE: For lighting and power in establishments not classified as residential whose energy consumption has not exceeded 9,000 kWh in any one of the prior twelve (12) consecutive billing periods ending with the current billing period. For any billing period that exceeds 35 days, the energy consumption shall be prorated to that of a 30-day amount for purposes of administering this requirement. Resale not permitted.

CHARACTER OF SERVICE: Single or 3 phase, 60 cycles and approximately 120 volts or higher, at Company's option.

LIMITATION OF SERVICE: All service under this rate shall be furnished through one meter. Standby service permitted on Schedule GST only.

MONTHLY RATE:

Basic Service Charge:

Metered accounts	$19.94
Un-metered accounts	$16.62

Energy and Demand Charge:
5.691¢ per kWh

MINIMUM CHARGE: The Basic Service Charge.

EMERGENCY RELAY POWER SUPPLY CHARGE: The monthly charge for emergency relay power supply service shall be 0.167¢ per kWh of billing energy. This charge is in addition to the compensation the customer must make to the Company as a contribution-in-aid of construction.

Continued to Sheet No. 6.051

ISSUED BY: N. G. Tower, President

DATE EFFECTIVE:

TECO TAMPA ELECTRIC AN EMERA COMPANY

TWENTY-THIRD REVISED SHEET NO. 6.080
CANCELS TWENTY-SECOND REVISED SHEET NO. 6.080

GENERAL SERVICE - DEMAND

SCHEDULE: GSD

AVAILABLE: Entire service area.

APPLICABLE: To any customer whose energy consumption has exceeded 9,000 kWh in any one of the prior twelve (12) consecutive billing periods ending with the current billing period. Also available to customers with energy consumption at any level below 9,000 kWh per billing period who agree to remain on this rate for at least twelve (12) months. For any billing period that exceeds 35 days, the energy consumption shall be prorated to that of a 30-day amount for purposes of administering this requirement. Resale not permitted.

CHARACTER OF SERVICE: A-C; 60 cycles; 3 phase; at any standard Company voltage.

LIMITATION OF SERVICE: Standby service is permitted only for customers who generate less than 20% of their on-site load requirements or whose generating equipment is used for emergency purposes.

MONTHLY RATE:

STANDARD		OPTIONAL	
Basic Service Charge:		Basic Service Charge:	
Secondary Metering Voltage	$ 33.24	Secondary Metering Voltage	$ 33.24
Primary Metering Voltage	$ 144.03	Primary Metering Voltage	$ 144.03
Subtrans. Metering Voltage	$1,096.82	Subtrans. Metering Voltage	$1,096.82
Demand Charge:		Demand Charge:	
$10.74 per kW of billing demand		$0.00 per kW of billing demand	
Energy Charge:		Energy Charge:	
1.754¢ per kWh		6.829¢ per kWh	

The customer may select either standard or optional. Once an option is selected, the customer must remain on that option for twelve (12) consecutive months.

Continued to Sheet No. 6.081

TECO TAMPA ELECTRIC AN EMERA COMPANY

EIGHTH REVISED SHEET NO. 6.082
CANCELS SEVENTH REVISED SHEET NO. 6.082

Continued from Sheet No. 6.081

When a customer under the optional rate takes service at primary voltage, a discount of 0.226¢ per kWh will apply. A discount of 0.689¢ per kWh will apply when a customer under the optional rate takes service at subtransmission or higher voltage.

EMERGENCY RELAY POWER SUPPLY CHARGE: The monthly charge for emergency relay power supply service shall be 66¢ per kW of billing demand for customers taking service under the standard rate and 0.167¢/kWh for customer taking service under the optional rate. This charge is in addition to the compensation the customer must make to the Company as a contribution-in-aid of construction.

FUEL CHARGE: See Sheet Nos. 6.020 and 6.021.

ENERGY CONSERVATION CHARGE: See Sheet Nos. 6.020 and 6.021.

CAPACITY CHARGE: See Sheet Nos. 6.020 and 6.021.

ENVIRONMENTAL COST RECOVERY CHARGE: See Sheet Nos. 6.020 and 6.021.

FLORIDA GROSS RECEIPTS TAX: See Sheet No. 6.021.

FRANCHISE FEE CHARGE: See Sheet No. 6.021.

PAYMENT OF BILLS: See Sheet No. 6.022.

TECO TAMPA ELECTRIC AN EMERA COMPANY

TWENTY-FIRST REVISED SHEET NO. 6.085
CANCELS TWENTIETH REVISED SHEET NO. 6.085

INTERRUPTIBLE SERVICE
(CLOSED TO NEW BUSINESS AS OF MAY 7, 2009)

SCHEDULE: IS

AVAILABLE: Entire Service Area.

APPLICABLE: To be eligible for service under Rate Schedule IS, a customer must have been taking interruptible service under rate schedules IS-1, IST-1, IS-3, IST-3, SBI-1, or SBI-3 on May 6, 2009 and have signed the Agreement for the Purchase of Industrial Load Management Service under Rate Schedule GSLM-2. When electric service is desired at more than one location, each such location or point of delivery shall be considered as a separate customer. Resale not permitted.

CHARACTER OF SERVICE: The electric energy supplied under this schedule is three phase primary voltage or higher.

LIMITATION OF SERVICE: Standby service is permitted only for customers who generate less than 20% of their on-site load requirements or whose generating equipment is used for emergency purposes.

MONTHLY RATE:

Basic Service Charge:

Primary Metering Voltage	$ 689.11
Subtransmission Metering Voltage	$2,627.94

Demand Charge:
$2.10 per KW of billing demand

Energy Charge:
2.774¢ per KWH

Continued to Sheet No. 6.086

ISSUED BY: N. G. Tower, President **DATE EFFECTIVE:**

TECO TAMPA ELECTRIC AN EMERA COMPANY

TWENTY-NINTH REVISED SHEET NO. 6.290
CANCELS TWENTY-EIGHTH REVISED SHEET NO. 6.290

CONSTRUCTION SERVICE

SCHEDULE: CS

AVAILABLE: Entire service area.

APPLICABLE: Single phase temporary service used primarily for construction purposes.

LIMITATION OF SERVICE: Service is limited to construction poles and services installed under the TUG program. Construction poles are limited to a maximum of 70 amperes at 240 volts for construction poles. Larger (non-TUG) services and three phase service entrances must be served under the appropriate rate schedule, plus the cost of installing and removing the temporary facilities is required.

MONTHLY RATE:
Basic Service Charge: $19.94

Energy and Demand Charge: 5.691¢ per kWh

.

MINIMUM CHARGE: The Basic Service Charge.

FUEL CHARGE: See Sheet Nos. 6.020 and 6.021.

ENERGY CONSERVATION CHARGE: See Sheet Nos. 6.020 and 6.021.

CAPACITY CHARGE: See Sheet Nos. 6.020 and 6.021.

ENVIRONMENTAL COST RECOVERY CHARGE: See Sheet Nos. 6.020 and 6.021.

FLORIDA GROSS RECEIPTS TAX: Sheet No. 6.021.

FRANCHISE FEE CHARGE: See Sheet No. 6.021.

MISCELLANEOUS: A Temporary Service Charge of $260.00 shall be paid upon application for the recovery of costs associated with providing, installing, and removing the company's temporary service facilities for construction poles. Where the Company is required to provide additional facilities other than a service drop or connection point to the Company's existing distribution system, the customer shall also pay, in advance, for the estimated cost of providing, installing and removing such additional facilities, excluding the cost of any portion of these facilities which will remain as a part of the permanent service.

PAYMENT OF BILLS: See Sheet No. 6.022.

TECO TAMPA ELECTRIC AN EMERA COMPANY

TWENTY-THIRD REVISED SHEET NO. 6.320
CANCELS TWENTY-SECOND REVISED SHEET NO. 6.320

TIME-OF-DAY
GENERAL SERVICE - NON DEMAND
(OPTIONAL)

SCHEDULE: GST

AVAILABLE: Entire service area.

APPLICABLE: For lighting and power in establishments not classified as residential whose energy consumption has not exceeded 9,000 kWh in any one of the prior twelve (12) consecutive billing periods ending with the current billing period. All of the electric load requirements on the customer's premises must be metered at one (1) point of delivery. For any billing period that exceeds 35 days, the energy consumption shall be prorated to that of a 30-day amount for purposes of administering this requirement. Resale not permitted.

CHARACTER OF SERVICE: Single or 3 phase, 60 cycles and approximately 120 volts or higher, at Company's option.

LIMITATION OF SERVICE: All service under this rate shall be furnished through one meter. Standby service permitted.

MONTHLY RATE:

Basic Service Charge:
$22.16

Energy and Demand Charge:
14.533¢ per kWh during peak hours
1.545¢ per kWh during off-peak hours

Continued to Sheet No. 6.321

ISSUED BY: N. G. Tower, President **DATE EFFECTIVE:**

TECO TAMPA ELECTRIC AN EMERA COMPANY

TWENTY-FOURTH REVISED SHEET NO. 6.330
CANCELS TWENTY-THIRD REVISED SHEET NO. 6.330

TIME-OF-DAY
GENERAL SERVICE - DEMAND
(OPTIONAL)

SCHEDULE: GSDT

AVAILABLE: Entire service area.

APPLICABLE: To any customer whose energy consumption has exceeded 9,000 kWh in any one of the prior twelve (12) consecutive billing periods ending with the current billing period. Also available to customers with energy consumption at any level below 9,000 kWh per billing period who agree to remain on this rate for at least twelve (12) months. For any billing period that exceeds 35 days, the consumption shall be prorated to that of a 30-day amount for purposes of administering this requirement. Resale not permitted.

CHARACTER OF SERVICE: A-C; 60 cycles; 3 phase; at any standard Company voltage.

LIMITATION OF SERVICE: Standby service is permitted only for customers who generate less than 20% of their on-site load requirements or whose generating equipment is used for emergency purposes.

MONTHLY RATE:

Basic Service Charge:

Secondary Metering Voltage	$ 33.24
Primary Metering Voltage	$ 144.03
Subtransmission Metering Voltage	$1,096.82

Demand Charge:
$3.63 per kW of billing demand, plus
$7.12 per kW of peak billing demand

Energy Charge:
3.211¢ per kWh during peak hours
1.159¢ per kWh during off-peak hours

Continued to Sheet No. 6.331

ISSUED BY: N. G. Tower, President **DATE EFFECTIVE:**

TECO TAMPA ELECTRIC AN EMERA COMPANY

TWENTY-FIRST REVISED SHEET NO. 6.340
CANCELS TWENTIETH REVISED SHEET NO. 6.340

TIME OF DAY
INTERRUPTIBLE SERVICE
(CLOSED TO NEW BUSINESS AS OF MAY 7, 2009)

SCHEDULE: IST

AVAILABLE: Entire Service Area.

APPLICABLE: To be eligible for service under Rate Schedule IST, a customer must have been taking interruptible service under rate schedules IS-1, IST-1, IS-3, IST-3, SBI-1, or SBI-3 on May 6, 2009 and have signed the Agreement for the Purchase of Industrial Load Management Service under Rate Schedule GSLM-2. When electric service is desired at more than one location, each such location or point of delivery shall be considered as a separate customer. Resale not permitted.

CHARACTER OF SERVICE: The electric energy supplied under this schedule is three phase primary voltage or higher.

LIMITATION OF SERVICE: Standby service is permitted only for customers who generate less than 20% of their on-site load requirements or whose generating equipment is used for emergency purposes.

Basic Service Charge:

Primary Metering Voltage	$ 689.11
Subtransmission Metering Voltage	$2,627.94

Demand Charge:
$2.10 per KW of billing demand

Energy Charge:
2.774¢ per KWH

Continued to Sheet No. 6.345

ISSUED BY: N. G. Tower, President **DATE EFFECTIVE:**

TECO TAMPA ELECTRIC AN EMERA COMPANY

NINTH REVISED SHEET NO. 6.565
CANCELS EIGHTH REVISED SHEET NO. 6.565

Continued from Sheet No. 6.560

MONTHLY RATES:
Basic Service Charge: $16.62

Energy and Demand Charges: 5.708¢ per kWh (for all pricing periods)

MINIMUM CHARGE: The Basic Service Charge.

FUEL CHARGE: See Sheet Nos. 6.020 and 6.021.

ENERGY CONSERVATION CHARGE: See Sheet Nos. 6.020 and 6.021.

CAPACITY CHARGE: See Sheet Nos. 6.020 and 6.021.

ENVIRONMENTAL COST RECOVERY CHARGE: See Sheet Nos. 6.020 and 6.021.

FLORIDA GROSS RECEIPTS TAX: See Sheet No. 6.021.

FRANCHISE FEE CHARGE: See Sheet No. 6.021.

PAYMENT OF BILLS: See Sheet No. 6.022.

DETERMINATION OF PRICING PERIODS: Pricing periods are established by season for weekdays and weekends. The pricing periods for price levels P_1 (Low Cost Hours), P_2 (Moderate Cost Hours) and P_3 (High Cost Hours) are as follows:

May through October	**P_1**	**P_2**	**P_3**
Weekdays	11 P.M. to 6 A.M.	6 A.M. to 1 P.M. 6 P.M. to 11 P.M.	1 P.M. to 6 P.M.
Weekends	11 P.M. to 6 A.M.	6 A.M. to 11 P.M.	----------
November through April	**P_1**	**P_2**	**P_3**
Weekdays	11 P.M. to 5 A.M.	5 A.M. to 6 A.M. 10 A.M. to 11 P.M.	6 A.M. to 10 A.M.
Weekends	11 P.M. to 6 A.M.	6 A.M. to 11 P.M.	----------

The pricing periods for price level P_4 (Critical Cost Hours) shall be determined at the sole discretion of the Company. Level P_4 hours shall not exceed 134 hours per year.

Continued to Sheet No. 6.570

ISSUED BY: N. G. Tower, President **DATE EFFECTIVE:**

TECO TAMPA ELECTRIC AN EMERA COMPANY

FOURTEENTH REVISED SHEET NO. 6.601
CANCELS THIRTEENTH REVISED SHEET NO. 6.601

Continued from Sheet No. 6.600

CHARGES FOR SUPPLEMENTAL SERVICE:

Demand Charge:
$10.74 per kW-Month of Supplemental Billing Demand (Supplemental Billing Demand Charge)

Energy Charge:
1.754¢ per Supplemental kWh

DEFINITIONS OF THE USE PERIODS: All time periods stated in clock time. (Meters are programmed to automatically adjust for changes from standard to daylight saving time and vice-versa.)

	April 1 - October 31	November 1 - March 31
Peak Hours: (Monday-Friday)	12:00 Noon - 9:00 PM	6:00 AM - 10:00 AM and 6:00 PM - 10:00 PM

Off-Peak Hours: All other weekday hours, and all hours on Saturdays, Sundays, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day shall be off-peak.

BILLING UNITS:

Demand Units: Metered Demand - The highest measured 30-minute interval kW demand served by the company during the month.

Site Load - The highest kW total of Customer generation plus deliveries by the company less deliveries to the Company, occurring in the same 30-minute interval, during the month.

Normal Generation - The generation level equaled or exceeded by the Customer's generation 10% of the metered intervals during the previous twelve months.

Supplemental Billing Demand - The amount, if any, by which the highest Site Load during any 30-minute interval in the month exceeds Normal Generation, but no greater than Metered Demand.

Continued to Sheet No. 6.602

ISSUED BY: N. G. Tower, President **DATE EFFECTIVE:**

TECO TAMPA ELECTRIC AN EMERA COMPANY

ELEVENTH REVISED SHEET NO. 6.606
CANCELS TENTH REVISED SHEET NO. 6.606

Continued from Sheet No. 6.605

CHARGES FOR SUPPLEMENTAL SERVICE

Demand Charge:

$3.63	per kW-Month of Supplemental Demand (Supplemental Billing Demand Charge), plus
$7.12	per kW-Month of Supplemental Peak Demand (Supplemental Peak Billing Demand Charge)

Energy Charge:

3.211¢	per Supplemental kWh during peak hours
1.159¢	per Supplemental kWh during off-peak hours

DEFINITIONS OF THE USE PERIODS: All time periods stated in clock time. (Meters are programmed to automatically adjust for changes from standard to daylight saving time and vice-versa.)

	April 1 - October 31	November 1 - March 31
Peak Hours: (Monday-Friday)	12:00 Noon - 9:00 PM	6:00 AM - 10:00 AM and 6:00 PM - 10:00 PM

Off-Peak Hours: All other weekday hours, and all hours on Saturdays, Sundays, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day shall be off-peak.

BILLING UNITS:

Demand Units: Metered Demand - The highest measured 30-minute interval kW demand served by the Company during the month.

Metered Peak Demand - The highest measured 30-minute interval kW demand served by the Company during the peak hours.

Site Load - The highest kW total of Customer generation plus deliveries by the company less deliveries to the company, occurring in the same 30-minute interval, during the month.

Continued to Sheet No. 6.607

TECO TAMPA ELECTRIC AN EMERA COMPANY

NINTH REVISED SHEET NO. 6.700
CANCELS EIGHTH REVISED SHEET NO. 6.700

INTERRUPTIBLE STANDBY AND SUPPLEMENTAL SERVICE
(CLOSED TO NEW BUSINESS AS OF MAY 7, 2009)

SCHEDULE: SBI

AVAILABLE: Entire service area.

APPLICABLE: Required for all self-generating customers eligible for service under rate schedules IS or IST whose generating capacity in kilowatts (exclusive of emergency generation equipment) exceeds 20% of their site load in kilowatts. Also available to self-generating customers eligible for service under rate schedules IS or IST whose generating capacity in kilowatts does not exceed 20% of their site load in kilowatts, but who agree to all the terms and conditions of this rate schedule. To be eligible for service under this rate schedule, a customer must have been taking interruptible service under rate schedules IS-1, IST-1, IS-3, IST-3, SBI-1, or SBI-3 on May 6, 2009 and have signed the Supplemental Tariff Agreement for the Purchase of Industrial Standby and Supplemental Load Management Rider Service. Resale not permitted.

CHARACTER OF SERVICE: The electric energy supplied under this schedule is three phase primary voltage or higher

LIMITATION OF SERVICE: A customer taking service under this tariff must sign the Tariff Agreement for the Purchase of Standby and Supplemental Service

MONTHLY RATE:

Basic Service Charge:

Primary Metering Voltage	$716.81
Subtransmission Metering Voltage	$2,655.64

Demand Charge:

$2.10 per KW-Month of Supplemental Demand (Supplemental Demand Charge)
$1.61 per KW-Month of Standby Demand (Local Facilities Reservation Charge)

plus the greater of:
$1.33 per KW-Month of Standby Demand (Power Supply Reservation Charge); or
$0.53 per KW-Day of Actual Standby Billing Demand (Power Supply Demand Charge)

Continued to Sheet No. 6.705

ISSUED BY: N. G. Tower, President **DATE EFFECTIVE:**

TECO TAMPA ELECTRIC AN EMERA COMPANY

SEVENTH REVISED SHEET NO. 6.805
CANCELS SIXTH REVISED SHEET NO. 6.805

Continued from Sheet No. 6.800

MONTHLY RATE:

High Pressure Sodium Fixture, Maintenance, and Base Energy Charges:

Rate Code			Lamp Size				Charges per Unit ($)			
					kWh				Base Energy[4]	
Dusk to Dawn	Timed Svc.	Description	Initial Lumens[2]	Lamp Wattage[3]	Dusk to Dawn	Timed Svc.	Fixture	Maint.	Dusk to Dawn	Timed Svc.
800	860	Cobra[1]	4,000	50	20	10	3.16	2.48	0.55	0.27
802	862	Cobra/Nema[1]	6,300	70	29	14	3.20	2.11	0.79	0.38
803	863	Cobra/Nema[1]	9,500	100	44	22	3.63	2.33	1.20	0.60
804	864	Cobra[1]	16,000	150	66	33	4.18	2.02	1.80	0.90
805	865	Cobra[1]	28,500	250	105	52	4.87	2.60	2.86	1.42
806	866	Cobra[1]	50,000	400	163	81	5.09	2.99	4.45	2.21
468	454	Flood[1]	28,500	250	105	52	5.37	2.60	2.86	1.42
478	484	Flood[1]	50,000	400	163	81	5.71	3.00	4.45	2.21
809	869	Mongoose[1]	50,000	400	163	81	6.50	3.02	4.45	2.21
509	508	Post Top (PT)[1]	4,000	50	20	10	3.98	2.48	0.55	0.27
570	530	Classic PT[1]	9,500	100	44	22	11.85	1.89	1.20	0.60
810	870	Coach PT[1]	6,300	70	29	14	4.71	2.11	0.79	0.38
572	532	Colonial PT[1]	9,500	100	44	22	11.75	1.89	1.20	0.60
573	533	Salem PT[1]	9,500	100	44	22	9.03	1.89	1.20	0.60
550	534	Shoebox[1]	9,500	100	44	22	8.01	1.89	1.20	0.60
566	536	Shoebox[1]	28,500	250	105	52	8.69	3.18	2.86	1.42
552	538	Shoebox[1]	50,000	400	163	81	9.52	2.44	4.45	2.21

[1] Closed to new business
[2] Lumen output may vary by lamp configuration and age.
[3] Wattage ratings do not include ballast losses.
[4] The Base Energy charges are calculated by multiplying the kWh times the lighting base energy rate of 2.743¢ per kWh for each fixture.

Continued to Sheet No. 6.806

ISSUED BY: N. G. Tower, President

DATE EFFECTIVE:

TECO TAMPA ELECTRIC AN EMERA COMPANY

FIFTH REVISED SHEET NO. 6.806
CANCELS FOURTH REVISED SHEET NO. 6.806

Continued from Sheet No. 6.805

MONTHLY RATE:

Metal Halide Fixture, Maintenance, and Base Energy Charges:

Rate Code			Lamp Size				Charges per Unit ($)			
					kWh				Base Energy[4]	
Dusk to Dawn	Timed Svc.	Description	Initial Lumens[2]	Lamp Wattage[3]	Dusk to Dawn	Timed Svc.	Fixture	Maint.	Dusk to Dawn	Timed Svc.
704	724	Cobra[1]	29,700	350	138	69	7.53	4.99	3.76	1.88
520	522	Cobra[1]	32,000	400	159	79	6.03	4.01	4.34	2.15
705	725	Flood[1]	29,700	350	138	69	8.55	5.04	3.76	1.88
556	541	Flood[1]	32,000	400	159	79	8.36	4.02	4.34	2.15
558	578	Flood[1]	107,800	1,000	383	191	10.50	8.17	10.44	5.21
701	721	General PT[1]	12,000	150	67	34	10.60	3.92	1.83	0.93
574	548	General PT[1]	14,400	175	74	37	10.89	3.73	2.02	1.01
700	720	Salem PT[1]	12,000	150	67	34	9.33	3.92	1.83	0.93
575	568	Salem PT[1]	14,400	175	74	37	9.38	3.74	2.02	1.01
702	722	Shoebox[1]	12,000	150	67	34	7.22	3.92	1.83	0.93
564	549	Shoebox[1]	12,800	175	74	37	7.95	3.70	2.02	1.01
703	723	Shoebox[1]	29,700	350	138	69	9.55	4.93	3.76	1.88
554	540	Shoebox[1]	32,000	400	159	79	10.02	3.97	4.34	2.15
576	577	Shoebox[1]	107,800	1,000	383	191	16.50	8.17	10.44	5.21

[1] Closed to new business
[2] Lumen output may vary by lamp configuration and age.
[3] Wattage ratings do not include ballast losses.
[4] The Base Energy charges are calculated by multiplying the kWh times the lighting base energy rate of 2.743¢ per kWh for each fixture.

Continued to Sheet No. 6.808

ISSUED BY: N. G. Tower, President **DATE EFFECTIVE:**

TECO TAMPA ELECTRIC AN EMERA COMPANY

FIFTH REVISED SHEET NO. 6.808
CANCELS FOURTH REVISED SHEET NO. 6.808

Continued from Sheet No. 6.806

MONTHLY RATE:

LED Fixture, Maintenance, and Base Energy Charges:

Rate Code			Size				Charges per Unit ($)			
					kWh[1]				Base Energy[3]	
Dusk to Dawn	Timed Svc.	Description	Initial Lumens[1]	Lamp Wattage[2]	Dusk to Dawn	Timed Svc.	Fixture	Maintenance	Dusk to Dawn	Timed Svc.
828	848	Roadway	5,155	56	20	10	7.27	1.74	0.55	0.27
820	840	Roadway	7,577	103	36	18	11.15	1.19	0.98	0.49
821	841	Roadway	8,300	106	37	19	11.15	1.20	1.01	0.52
829	849	Roadway	15,285	157	55	27	11.10	2.26	1.50	0.74
822	842	Roadway	15,300	196	69	34	14.58	1.26	1.88	0.93
823	843	Roadway	14,831	206	72	36	16.80	1.38	1.96	0.98
835	855	Post Top	5,176	60	21	11	16.53	2.28	0.57	0.30
824	844	Post Top	3,974	67	24	12	19.67	1.54	0.65	0.33
825	845	Post Top	6,030	99	35	17	20.51	1.56	0.95	0.46
836	856	Post Top	7,360	100	35	18	16.70	2.28	0.95	0.49
830	850	Area-Lighter	14,100	152	53	27	14.85	2.51	1.45	0.74
826	846	Area-Lighter	13,620	202	71	35	19.10	1.41	1.94	0.95
827	847	Area-Lighter	21,197	309	108	54	20.60	1.55	2.95	1.47
831	851	Flood	22,122	238	83	42	15.90	3.45	2.26	1.15
832	852	Flood	32,087	359	126	63	19.16	4.10	3.44	1.72
833	853	Mongoose	24,140	245	86	43	14.71	3.04	2.35	1.17
834	854	Mongoose	32,093	328	115	57	16.31	3.60	3.14	1.55

[1] Average
[2] Average wattage. Actual wattage may vary by up to +/- 5 watts.
[3] The Base Energy charges are calculated by multiplying the kWh times the lighting base energy rate of 2.743¢ per kWh for each fixture.

Continued to Sheet No. 6.810

ISSUED BY: N. G. Tower, President **DATE EFFECTIVE:**

TECO TAMPA ELECTRIC AN EMERA COMPANY

FIFTH REVISED SHEET NO. 6.815
CANCELS FOURTH REVISED SHEET NO. 6.815

Continued from Sheet No. 6.810

Miscellaneous Facilities Charges:

Rate Code	Description	Monthly Facility Charge	Monthly Maintenance Charge
563	Timer	$7.54	$1.43
569	PT Bracket (accommodates two post top fixtures)	$4.27	$0.06

NON-STANDARD FACILITIES AND SERVICES:

The customer shall pay all costs associated with additional company facilities and services that are not considered standard for providing lighting service, including but not limited to, the following:

1. relays;
2. distribution transformers installed solely for lighting service;
3. protective shields;
4. bird deterrent devices;
5. light trespass shields;
6. light rotations;
7. light pole relocations;
8. devices required by local regulations to control the levels or duration of illumination including associated planning and engineering costs;
9. removal and replacement of pavement required to install underground lighting cable; and
10. directional boring.

MINIMUM CHARGE: The monthly charge.

FUEL CHARGE: See Sheet Nos. 6.020 and 6.021.

ENERGY CONSERVATION CHARGE: See Sheet Nos. 6.020 and 6.021.

CAPACITY CHARGE: See Sheet Nos. 6.020 and 6.021

ENVIRONMENTAL COST RECOVERY CHARGE: See Sheet Nos. 6.020 and 6.021

FLORIDA GROSS RECEIPTS TAX: See Sheet No. 6.021

FRANCHISE FEE: See Sheet No. 6.021

PAYMENT OF BILLS: See Sheet No. 6.022

SPECIAL CONDITIONS:
On customer-owned public street and highway lighting systems not subject to other rate schedules, the monthly rate for energy served at primary or secondary voltage, at the company's option, shall be 2.743¢ per kWh of metered usage, plus a Basic Service Charge of $11.62 per month and the applicable additional charges as specified on Sheet Nos. 6.020 and 6.021.

Continued to Sheet No. 6.820

BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 2017____-EI
IN RE: PETITION BY TAMPA ELECTRIC COMPANY FOR A LIMITED PROCEEDING TO APPROVE FIRST SOBRA EFFECTIVE SEPTEMBER 1, 2018

PREPARED DIRECT TESTIMONY AND EXHIBIT OF MARK D. WARD

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

PREPARED DIRECT TESTIMONY

OF

MARK D. WARD

Q. Please state your name, address, occupation and employer.

A. My name is Mark D. Ward. My business address is 702 N. Franklin Street, Tampa, Florida 33602. I am employed by Tampa Electric Company ("Tampa Electric" or "company") as Director of Renewables.

Q. Please provide a brief outline of your educational background and business experience.

A. I earned a Bachelor of Science in Mechanical Engineering from University of Alabama in Huntsville in 1984. I have 33 years of combined professional experience as a Department of Defense contractor, and working for public utilities and independent power producers. Twenty-one years of my experience has been with electric utilities and independent power producers.

I worked for Tampa Electric from 1996 to 2001 where I served as Manager of Generation Planning and provided

management support for the development of Tampa Electric's Bayside Power project. From 2001 to 2007 I served in mid- to senior level management positions at various companies involved in the power industry. These companies included; Entergy Asset Management, an unregulated subsidiary of Entergy, the Shaw Group, an engineering and construction firm, and TXU, a regulated electric utility. From 2007 to 2014 I served as President of the Mesa Power Group. Mesa Power was a renewable energy developer with a primary focus in large scale wind development. From 2014 to 2016 I managed an energy consulting practice with clients primarily in solar, wind and combined heat and power.

I was re-hired by Tampa Electric in December 2016 as Director of Renewables. My responsibilities in this position include management oversight with respect to Tampa Electric's renewable energy strategies and projects. This includes the execution of Tampa Electric's 600 MW of utility scale solar projects described in the 2017 Amended and Restated Stipulation and Settlement Agreement ("2017 Agreement") that was approved by the Commission in Order No. PSC-2017-0456-S-EI, issued in Docket Nos. 20170210-EI and 20160160-EI on November 27, 2017.

Q. Have you previously testified before the Commission?

A. Yes. I submitted direct and rebuttal testimony on behalf of Tampa Electric in Docket No. 19981890-EI (In re: Generic Investigation into Aggregate Electric Utility Reserve Margins Planned for Peninsular Florida). I submitted direct and rebuttal testimony on behalf of Tampa Electric on the prudency of replacement fuel and purchased power costs in Docket No. 19990001-EI (In re: Fuel and Purchased Power Cost Recovery Clause and Generating Performance Incentive Factor). I submitted direct testimony on behalf of Tampa Electric regarding the Gannon Repowering Project in Docket No. 19992014-EI (In re: Petition by Tampa Electric Company to Bring Generating Units into Compliance with Clean Air Act).

In addition, while working for Mesa Power Group, LLC, I submitted direct testimony before the Minnesota Public Utilities Commission on behalf of AWA Goodhue, LLC in MPUC Docket No. IP6701/WS-08-1233 (In the matter of the Application by AWA Goodhue Wind, LLC for a Site Permit for a Large Wind Energy Conversion System for a 78 MW Wind Project in Goodhue County).

I also served as a member of a panel of witnesses during

the November 6, 2017 hearing on the 2017 Agreement.

Q. What are the purposes of your direct testimony?

A. The purpose of my direct testimony is to: (1) explain the company's plans to build solar photovoltaic generating facilities to serve its customers; (2) describe the company's first two new solar projects ("Tranche One Projects") expected to be in service by September 1, 2018; and (3) demonstrate that the projected installed costs for the two Tranche One Projects are below the $1,500 per kilowatt alternating current ("kW_{ac}") installed cost cap contained in the 2017 Agreement.

Q. Have you prepared an exhibit to support your direct testimony?

A. Yes. Exhibit No. _____ (MDW-1) was prepared under my direction and supervision. It consists of the following six documents:

Document No. 1	Payne Creek Solar Project Specifications
Document No. 2	Payne Creek Solar Project General Arrangement Drawing

Document No. 3	Payne Creek Solar Project Projected Installed Cost by Category
Document No. 4	Balm Solar Project Specifications
Document No. 5	Balm Solar Project General Arrangement Drawing
Document No. 6	Balm Solar Project Projected Installed Cost by Category

Q. How does your prepared direct testimony relate to the prepared direct testimony of the company's other two witnesses?

A. My prepared direct testimony describes the two Tranche One Projects (Payne Creek Solar and Balm Solar) for which cost recovery is requested via the company's First Solar Base Rate Adjustment ("SoBRA") as well as their projected in-service dates and installed cost per KW_{ac}. Tampa Electric witness R. James Rocha uses the projected installed project cost in my direct testimony to calculate the annual revenue requirement for the First SoBRA. The company's cost of service and rate design witness, William R. Ashburn, uses the annual revenue requirement to develop the proposed customer rates for the First SoBRA.

Tampa Electric's Solar Plans

Q. Please describe the company's overall plan to install solar photovoltaic ("PV") generating facilities.

A. Over the next four years, Tampa Electric plans to add 6 million solar modules in 10 new solar PV projects across its service territory in West Central Florida. This amounts to a total of 600 megawatts ("MW") of cost-effective solar PV energy, which is enough electricity to power more than 100,000 homes. When the projects are complete, about six (6) percent of Tampa Electric's energy will come from the sun.

These solar additions are a continuation of Tampa Electric's longstanding commitment to clean energy. The company has long believed in the promise of renewable energy because it plays an important role in our energy future. As a member of the Emera family, Tampa Electric is committed to transitioning its power generation to lower carbon emissions with projects that are cost-effective for customers.

The 600 MW of cost-effective solar PV will be added to the company's generating fleet in four tranches. The company plans 150 MW of PV solar generation with an in-

service date of September 1, 2018, another 250 MW in service as of January 1, 2019, another 150 MW in service by January 1, 2020 and 50 MW in service by January 1, 2021.

The focus of my direct testimony is the company's planned first tranche, which consists of two projects totaling 145 MW with a projected in-service date of September 1, 2018.

Tranche One Projects: Payne Creek Solar and Balm Solar Projects

Q. Please describe the two Tranche One Projects.

A. The two projects in Tranche One are known as the Payne Creek Solar and Balm Solar Projects. The projects are single axis tracking systems, each designed to produce optimal MW of energy for the particular site conditions. The 70.3 MW Payne Creek Solar Project is located in Polk County, Florida on reclaimed phosphate mining land. The 74.4 MW Balm Solar Project is located in Hillsborough County, Florida on agricultural land. My Exhibit No.____(MDW-1) contains project specifications, a general arrangement drawing and projected installed costs in total and by category for each project.

Q. When does the company expect the Tranche One Projects to begin commercial service?

A. Based on the current engineering, procurement and construction ("EPC") schedules, the company expects both projects to be complete and in service on or before September 1, 2018.

Q. What arrangements has the company made to design and build the Tranche One Projects?

A. The company used a competitive process to review qualifications and experience and identify and select full-service solar developers. Three full-service solar developers were selected to enter into contract negotiations to provide project development and EPC services for the 600 MW of Tampa Electric solar projects.

Tampa Electric employed a Request for Information ("RFI") process to collect information from the bidders with respect to their qualifications, capabilities and experience as full-service solar developers. The RFI was provided to more than 60 companies with whom Tampa Electric had met or discussed the development and construction of utility scale solar projects. Tampa

Electric received more than 30 responses from solar developers or solar EPC companies. The company used the information from the RFI responses to select a shortlist of four full-service solar developers.

The shortlisted developers were asked to provide pricing for seven solar PV projects that ranged in size from 20 to 74.5 MW_{AC}. The pricing information was broken out for engineering and permitting, equipment, balance of system, installation and interconnection. The projects were based on sites that Tampa Electric has purchased or for which it has site control. During the pricing phase of the selection process one developer withdrew. The pricing evaluation was conducted during May 2017 and included interviews with each developer.

In early June 2017, Tampa Electric selected First Solar Electric, LLC as its full-service solar developer and EPC contractor for the Tranche One projects. First Solar Electric was selected based on its qualifications, experience and proposed project costs. First Solar Electric is based in Tempe, Arizona and has engineered, developed and installed more than five (5) gigawatts of solar generation worldwide.

Q. Has the company procured the land necessary for the solar projects?

A. Yes, Tampa Electric has purchased land for the two projects. Tampa Electric employed a screening and due diligence process to select its solar sites. The Payne Creek and Balm sites were evaluated and selected after considering environmental assessments, size of the project sites, proximity to Tampa Electric transmission facilities, cost of land, and suitability of the sites for solar PV construction. The two sites are each approximately 500 acres in size.

Q. What is the status of project design and engineering for the Tranche One Projects?

A. The Payne Creek and Balm projects are being engineered and designed, with documentation and permit applications being completed. Long lead time equipment is being procured, and meetings are being scheduled and held with Hillsborough and Polk Counties and the Florida Department of Environmental Protection. The company expects design and permitting for the projects to be complete in early 2018.

Q. Has the company purchased PV modules necessary to construct the projects?

A. Yes. The company has entered into a contract for the purchase of PV modules (i.e., solar panels) from First Solar, Inc. First Solar is obligated to complete the delivery of the modules needed for the Payne Creek Solar and Balm Solar Projects before August 6, 2018. The delivery of modules to the projects will be staged over several weeks between May 2018 and August 6, 2018 to ensure the projects are operational by September 1, 2018.

Q. What other procedures did the company use to ensure that the costs of the projects are reasonable?

A. Tampa Electric's primary procedure used to ensure that the costs of the projects are reasonable was the RFI process. The four shortlisted candidates were selected from the 30 respondents to the RFI. Each of the four candidates were provided several sites that Tampa Electric had purchased or controlled and were asked to provide proposals for the specific sites. The proposals were reviewed, and meetings were held with the candidates. The cost proposals submitted by the candidates for Payne Creek and Balm were within five and seven percent of one

another, respectively.

Tampa Electric also monitors published costs of other projects, particularly those in Florida. The Tampa Electric project costs compare favorably to the costs of those projects. Lastly, Tampa Electric occasionally receives unsolicited proposals from developers. The company's solar projects compare favorably to these proposals.

Q. Are the costs of the solar modules to be used in the Tranche One projects subject to increase from tariffs or import duties?

A. No. In a recent Section 201 Trade Case, the United States International Trade Commission found that solar module manufacturers Suniva and SolarWorld suffered economic injury by solar modules from overseas, which could result in the future imposition of tariffs or import duties on certain solar modules manufactured outside the United States. Tampa Electric has mitigated its exposure to this potential cost increase by executing a module purchase agreement with U.S. manufacturer First Solar, Inc. for 600 MW of modules at prices that are competitive with module prices prior to the Suniva filing. This will

ensure that Tampa Electric's Tranche One projects are competitive, even if the Suniva Section 201 Trade Case results in the imposition of tariffs or import duties.

Projected Installed Costs

Q. What are the projected installed costs for the Tranche One Projects?

A. The projected installed costs of the Payne Creek and Balm Solar Projects are $1,324 kW_{ac} and $1,480 kW_{ac}, respectively.

Q. What costs were included in these projections?

A. The projected total installed cost broken down by major category for the Tranche One Projects are shown on Document Nos. 3 and 6 of my exhibit.

The projected costs shown in my exhibit reflect the company's best estimate of the cost of the projects; they include the types of costs that traditionally have been allowed in rate base and are eligible for cost recovery via a SoBRA. These costs include: EPC costs; development costs including third party development fees, if any; permitting and land acquisition costs; taxes; utility costs to support

or complete development; transmission interconnection cost and equipment costs; costs associated with electrical balance of system, structural balance of system, inverters and modules; Allowance for Funds Used During Construction ("AFUDC") at the weighted average cost of capital from Exhibit B of the 2017 Agreement; and other traditionally allowed rate base costs.

Q. How were the projected cost amounts in your exhibit developed?

A. Tampa Electric has worked continuously with the developer to develop the all-in-cost for the Tranche One projects while also maximizing cost-effectiveness. It has been an iterative approach to develop project costs as site due diligence and engineering and design have been conducted. This includes negotiating and executing the module supply agreement, reviewing equipment specifications and pricing, reviewing the scope of work and balance of system costs, and acquiring land and cost estimates to engineer, permit and construct the projects.

Q. Are the projected installed costs shown in your exhibit eligible for cost recovery via a SoBRA pursuant to the 2017 Agreement?

A. Yes. The SoBRA mechanism in the 2017 Agreement includes a strict cost-effectiveness test and a $1,500 per kW_{ac} installed cost cap to protect customers. The projected installed costs shown in my exhibit are lower than the $1,500 per kW_{ac} installed cost cap, so the first test for cost recovery under the 2017 Agreement has been met. Witness Rocha demonstrates that the two projects are cost-effective in his direct testimony.

The actual installed costs will be trued up through the SoBRA mechanism once the projects are complete and the work orders have been closed.

Summary

Q. Please summarize your direct testimony.

A. Tampa Electric is developing two single axis tracking solar PV projects for an in-service date of September 1, 2018. The Payne Creek Solar site is located in Polk County, Florida, and the Balm Solar site is located in Hillsborough County, Florida. Each site is approximately 500 acres and will support a 70.3 to 74.4 MW project. The anticipated cost for each project will range from $1,324 /$kW_{ac}$ to $1,480 /$kW_{ac}$.

Q. Does this conclude your prepared direct testimony?

A. Yes, it does.

TAMPA ELECTRIC COMPANY
DOCKET NO. 2017_____-EI
EXHIBIT NO. _____ (MDW-1)

EXHIBIT

OF

MARK D. WARD

Table of Contents

Payne Creek Solar Project Specifications

Specifications of Proposed Solar PV Generating Facilities

(1)	Plant Name and Unit Number	Payne Creek Solar
(2)	Net Capability	70.3 MW_{ac}
(3)	Technology Type	Single Axis Tracking Solar PV
(4)	Anticipated Construction Timing	
	A. Field Construction Start Date	July 2017
	B. Commercial In-Service Date	September 2018
(5)	Fuel	
	A. Primary Fuel	Solar
	B. Alternate Fuel	N/A
(6)	Air Pollution Control Strategy	N/A
(7)	Cooling Method	N/A
(8)	Total Site Area	+500 Acres
(9)	Construction Status	Planned
(10)	Certification Status	N/A
(11)	Status with Federal Agencies	N/A
(12)	Projected Unit Performance Data	
	Planned Outage Factor (POF)	0.0
	Forced Outage Factor (FOF)	0.0
	Equivalent Availability Factor (EAF)	N/A
	Resulting Capacity Factor (2018)	26.3
	Average Net Operating Heat Rate (ANOHR) [1]	N/A
(13)	Projected Unit Financial Data	
	Book Life (Years)	30
	Total Installed Cost (In-Service Year $/kW) [1]	1,324
	Direct Construction Cost ($/kW)	1,293
	AFUDC Amount ($/kW) [2]	31
	Escalation ($/kW)	N/A
	Fixed O&M ($/kW – yr)	7.16
	Variable O&M ($/MWh)	0.0
	K-Factor [3]	1.13

1 Includes interconnect, AFUDC, land, w/o incentive
2 Based on the current AFUDC rate of 6.46%
3 W/o land

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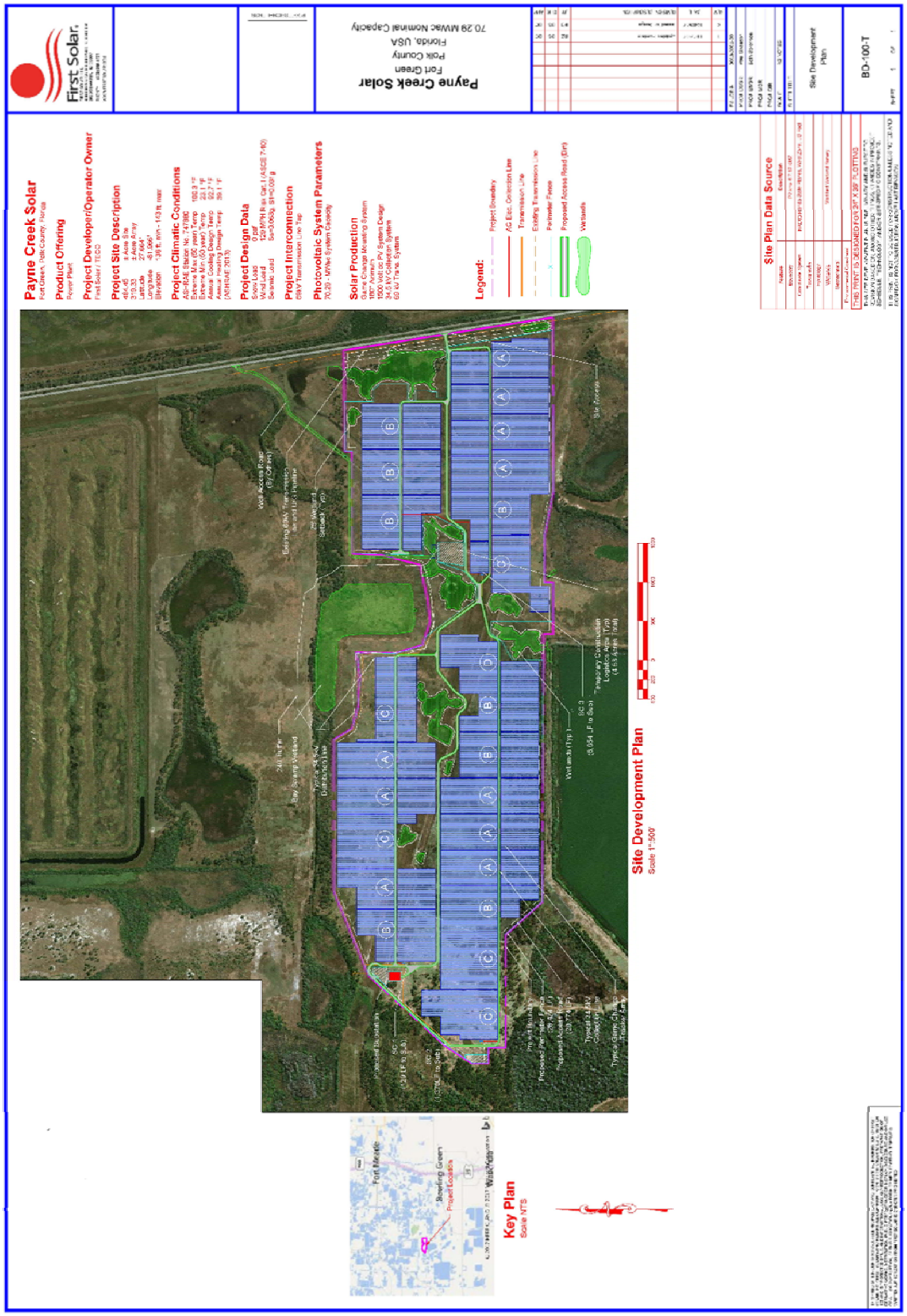
Payne Creek Solar Project General Arrangement Drawing



Payne Creek Solar Project Projected Installed Cost by Category

Payne Creek Solar Estimated Costs ($)	
Project Output (MW-ac)	70.3
Modules	30,827,672
Major Equipment	23,811,685
Balance of System	28,417,389
Development	1,593,623
Transmission Interconnect	4,400,000
Land	1,408,400
Owners Costs	419,383
Total Installed Cost ($)	90,878,151
AFUDC ($)	2,195,318
Total All-in-Cost ($)	93,073,469
Total ($/kW-ac)	1,324

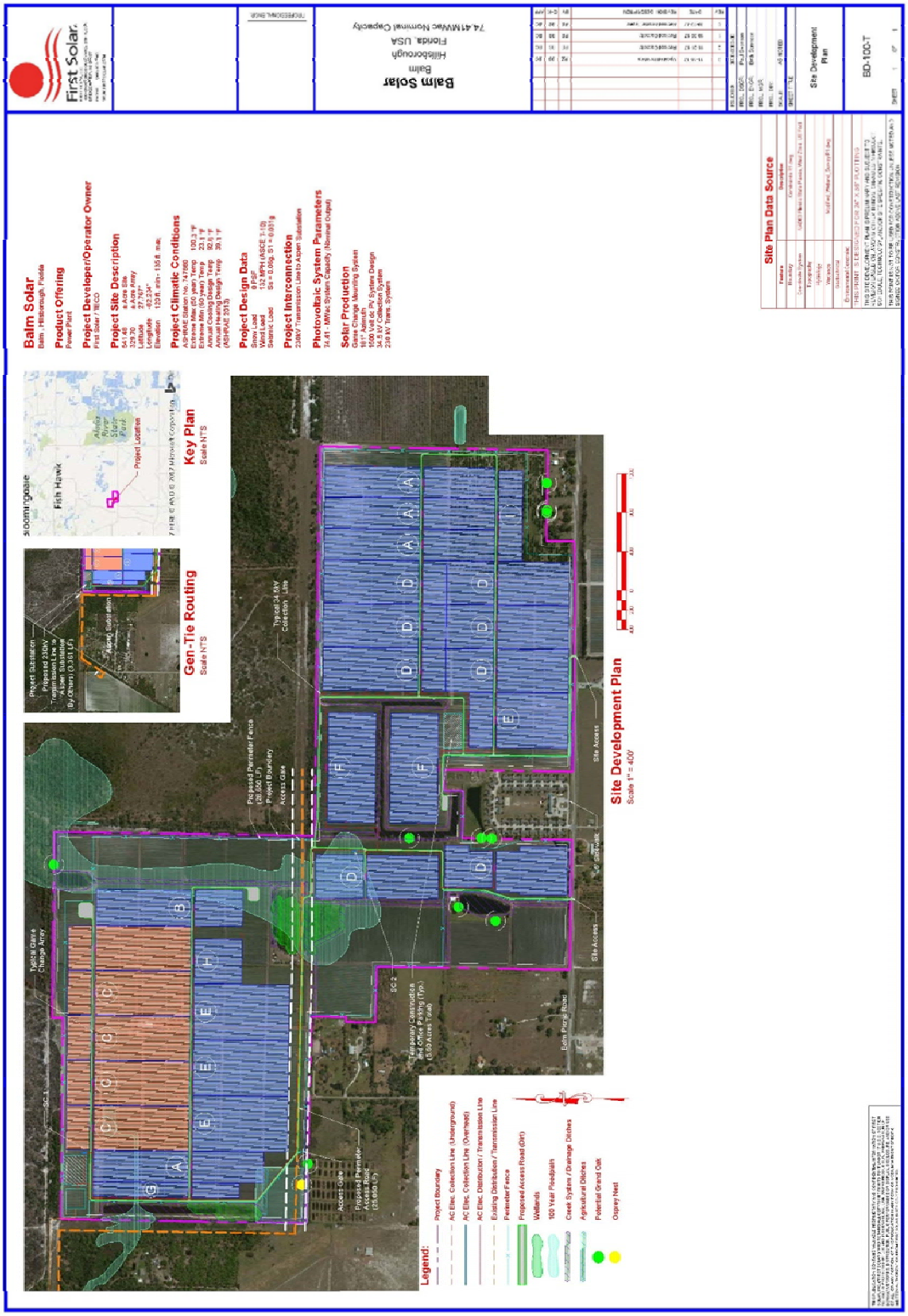
Balm Solar Project Specifications

Specifications of Proposed Solar PV Generating Facilities

(1)	Plant Name and Unit Number	Balm Solar
(2)	Net Capability	74.4 MW_{ac}
(3)	Technology Type	Single Axis Tracking Solar PV
(4)	Anticipated Construction Timing	
	A. Field Construction Start Date	July 2017
	B. Commercial In-Service Date	September 2018
(5)	Fuel	
	A. Primary Fuel	N/A
	B. Alternate Fuel	N/A
(6)	Air Pollution Control Strategy	N/A
(7)	Cooling Method	N/A
(8)	Total Site Area	+544 Acres
(9)	Construction Status	N/A
(10)	Certification Status	N/A
(11)	Status with Federal Agencies	N/A
(12)	Projected Unit Performance Data	
	Planned Outage Factor (POF)	0.0
	Forced Outage Factor (FOF)	0.0
	Equivalent Availability Factor (EAF)	N/A
	Resulting Capacity Factor (2018)	26.3
	Average Net Operating Heat Rate (ANOHR)	N/A
(13)	Projected Unit Financial Data	
	Book Life (Years)	30
	Total Installed Cost (In-Service Year $/kW) [1]	1,480
	Direct Construction Cost ($/kW)	1,450
	AFUDC Amount ($/kW) [2]	29
	Escalation ($/kW)	N/A
	Fixed O&M ($/kW – yr)	7.16
	Variable O&M ($/MWh)	0.0
	K-Factor [3]	1.14

1 Includes interconnect, AFUDC, land w/o incentive
2 Based on the current AFUDC rate of 6.46%
3 W/o land

Balm Solar Project General Arrangement Drawing



Balm Solar Project Projected Installed Cost by Category

Balm Solar Estimated Costs ($)	
Project Output (MW-ac)	74.4
Modules	29,263,256
Major Equipment	25,206,219
Balance of System	30,081,657
Development	1,686,953
Transmission Interconnect	2,500,000
Land	18,720,128
Owners Costs	443,970
Total Installed Cost ($)	107,902,183
AFUDC ($)	2,188,259
Total All-in-Cost ($)	110,090,442
Total ($/kW-ac)	1,480