

<b>Docket No. 20190136-EI</b>					
<b>Comprehensive Exhibit List for Entry into Hearing Record</b>					
<b>October 17, 2019</b>					
<b>EXH #</b>	<b>Witness</b>	<b>I.D. # As Filed</b>	<b>Exhibit Description</b>	<b>Issue Nos.</b>	<b>Entered</b>
1		Exhibit List	Comprehensive Exhibit List		
<b>TAMPA ELECTRIC COMPANY – DIRECT</b>					
2	William R. Ashburn	WRA-1	Development of Third SoBRA Base Revenue Increase by Rate Class; Base Revenue by Rate Schedule; Rollup Base Revenue by Rate Class for Third SoBRA; Typical Bills Reflecting Third SoBRA Base Revenue Increase; Determination of Fuel Recovery Factor for Third SoBRA; Redlined Tariffs Reflecting Third SoBRA Base Revenue Increase; Clean Tariffs Reflecting Third SoBRA Base Revenue Increase.	1, 5, 6	
3	Jose A. Aponte	JAA-1	Demand and Energy Forecast; Fuel Price Forecast; Revenue Requirements for Third SoBRA; Revenue Requirements for Third SoBRA with LMR Land as Purchase; Cost-Effectiveness Test for Third SoBRA.	1, 2, 4, 6	
4	Mark D. Ward	MDW-1	Wimauma Solar Project Specifications and Projected Costs Little Manatee River Solar Project Specifications and Projected Costs.  <b>Confidential DN. 05265-2019</b>	1, 2, 3, 4, 6	
<b>STAFF HEARING EXHIBITS</b>					
5	Ward (1-2, 12-13) Aponte (3-9,11,14-18) Ashburn (10)		TECO response to STAFF 1 <sup>st</sup> Interrogatories Nos. 1–18.  <b>Additional files contained on Staff Hearing Exhibits CD/USB for No. 4</b>  <i>[Bates Nos. 00001-00026]</i>		

**EXHIBIT**

**OF**

**WILLIAM R. ASHBURN**

FLORIDA PUBLIC SERVICE COMMISSION  
DOCKET: 20190136-EI EXHIBIT: 2  
PARTY: TAMPA ELECTRIC COMPANY –  
DIRECT  
DESCRIPTION: William R. Ashburn WRA-1

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TAMPA ELECTRIC COMPANY  
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EXHIBIT NO. \_\_\_\_ (WRA-1)  
WITNESS: ASHBURN  
DOCUMENT NO. 1

Development of  
Third SoBRA Base Revenue Increase  
by Rate Class

**TAMPA ELECTRIC COMPANY**  
**DEVELOPMENT OF SoBRA TRANCHE #3 BASE REVENUE INCREASE BY RATE CLASS FOR 2020**  
**USING JANUARY 1, 2019 RATES ADJUSTED FOR SoBRA TRANCHE #2**  
**(\$000)**

149.3 MW SoBRA Tranche #3  
 12CP & 1/13 - All Demand

Line	Rate Class	(A)	(B)	(C)		(E)		(F)	(G)
		Adjusted Revenue Requirement(1)	Present Base Revenue(2)	Base Revenue Deficiency		Proposed Base Rev. Increase		2020 Targeted Base Revenue (B) + (E)	
				\$	%	\$	%		
				(A) - (B)	(C) / (B)		(E) / (B)		
1	I. Residential (RS,RSVP)	\$ 664,701	\$ 649,680	\$ 15,021	2.31%				
2									
3	II. General Service								
4	Non-Demand (GS,CS)	70,161	68,788	1,373	2.00%				
5									
6									
7	Sub-Total: I. + II.	\$ 734,862	\$ 718,468	\$ 16,394	2.28%	\$ 16,394	2.28%	\$ 734,862	
8									
9									
10	III. General Service								
11	Demand (GSD, SBF)	354,391	344,901	9,490	2.75%	\$ 9,490	2.75%	354,391	
12									
13	IV. Interruptible Service (IS/SBI)	24,859	24,169	690	2.85%	\$ 690	2.85%	24,859	
14									
15									
16									
19	V. Lighting (LS-1)								
20	A. - Energy	\$ 3,920	3,899	21	0.55%	\$ 21	0.55%	\$ 3,920	
21	B. - Facilities	43,545	43,545	-	0.00%	\$ -	0.00%	\$ 43,545	
22									
23									
24	Total	<u>\$ 1,161,577</u>	<u>\$ 1,134,982</u>	<u>\$ 26,596</u>	<u>2.34%</u>	<u>\$ 26,596</u>	<u>2.34%</u>	<u>\$ 1,161,577</u>	
25									
26			\$ 26,596						
27									

- (1) The Adjusted Revenue Requirement column reflects an increase of \$26.596 million annual 3rd SoBRA revenues based on each class' percentage of 12 CP & 1/13th allocator plus an 40% allocation to lighting service of SoBRA increase.  
 (2) Present base revenue is calculated using base rates in effect on January 1, 2019 applied to 2020 projected billing determinants

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2020  
12 CP &1/13 Allocation

26596

Lighting allocation spread over other classes

\$000	%	Lighting Share Reallocation			53	60.00%	Lighting Share Reallocation		
		\$000	%	FINAL RR			\$000	%	FINAL RR
15,003	56.411%	30	56.53%	15,033	21	40.00%	18	56.53%	15,021
1,372	5.157%	3	5.17%	1,374			2	5.17%	1,373
	61.568%								
9,479	35.640%	19	35.71%	9,498			11	35.71%	9,490
689	2.590%	1	2.60%	690			1	2.60%	690
53	0.201%								21
26,596	100.00%	53	100%	26,596			32	100%	26,596

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**Base Revenue by Rate  
Schedule for Third SOBRA**

FLORIDA PUBLIC SERVICE COMMISSION

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 12/31/2020

COMPANY: TAMPA ELECTRIC COMPANY

Line No.

- 1
- 2
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- 36

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

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TAMPA ELECTRIC COMPANY  
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FLORIDA PUBLIC SERVICE COMMISSION 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.

COMPANY: TAMPA ELECTRIC COMPANY

DOCKET No. 130040-EI

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 12/31/2020

Rate Schedule RS\_RSVP-1

Line No.	Type of Charges	Present Revenue Calculation			Proposed Revenue Calculation			Percent Increase
		Units	Charge/Unit	\$ Revenue	Units	Charge/Unit	\$ Revenue	
1								
2	Basic Service Charge:							
3	Standard	8,322,094	Bills \$ 15.12	125,827,015	8,322,094	Bills \$ 15.12	125,827,015	
4	RSVP-1	57,343	Bills \$ 15.12	867,005	57,343	Bills \$ 15.12	867,005	
5	Total	8,379,437	Bills	126,694,020	8,379,437	Bills	126,694,020	0.0%
6								
7								
8								
9	Energy Charge:							
10	Standard							
11	First 1,000 kWh	6,523,664	MWH \$ 51.41	335,411,575	6,523,664	MWH \$ 52.96	345,519,340	
12	All additional kWh	2,977,074	MWH \$ 61.41	182,835,809	2,977,074	MWH \$ 62.96	187,448,487	
13	RSVP-1	86,854	MWH \$ 54.55	4,738,285	86,854	MWH \$ 56.10	4,872,857	
14	Total	9,587,592	MWH	522,985,669	9,587,592	MWH	537,840,684	2.8%
15								
16								
17								
18	Total Base Revenue:			649,679,690			664,534,705	2.3%
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Supporting Schedules:

Recap Schedules: E-13a

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COMPANY: TAMPA ELECTRIC COMPANY

DOCKET No. 130040-EI

Type of data shown: XX Projected Test year Ended 12/31/2020

PROVIDE TOTAL NUMBER OF BILLS, MWH's, AND BILLING KW FOR EACH RATE SCHEDULE (INCLUDING STANDARD AND TIME OF USE CUSTOMERS) AND TRANSFER GROUP.

Rate Schedule GS, GST

Line No.	Type of Charges	Present Revenue Calculation			Proposed Revenue Calculation			Percent Increase
		Units	Charge/Unit	\$ Revenue	Units	Charge/Unit	\$ Revenue	
1								
2	Basic Service Charge:							
3	Standard Metered	775,286 Bills	\$ 18.14	14,063,627	775,286 Bills	\$ 18.14	14,063,627	
4	Standard Unmetered	1,176 Bills	\$ 15.12	17,781	1,176 Bills	\$ 15.12	17,781	
5	T-O-D	30,836 Bills	\$ 20.16	621,639	30,836 Bills	\$ 20.16	621,639	
6	T-O-D (Meter CIAC paid)	12 Bills	\$ 18.14	218	12 Bills	\$ 18.14	218	
7	Total	807,310 Bills		14,703,265	807,310 Bills		14,703,265	0.0%
8								
9	Energy Charge:							
10	Standard	929,074 MWH	\$ 54.12	50,280,184	929,074 MWH	\$ 55.68	51,726,195	
11	Standard Unmetered	1,250 MWH	\$ 54.12	67,648	1,250 MWH	\$ 55.68	69,594	
12	T-O-D On-Peak	9,516 MWH	\$ 149.63	1,423,879	9,516 MWH	\$ 125.21	1,191,498	
13	T-O-D Off-Peak	27,957 MWH	\$ 21.08	589,414	27,957 MWH	\$ 31.62	884,121	
14	Total	967,797 MWH		52,361,126	967,797 MWH		53,871,408	2.9%
15								
16	Emergency Relay Charge:							
17	Standard	1,677 MWH	\$ 1.64	2,753	1,677 MWH	\$ 1.69	2,832	
18	T-O-D	- MWH	\$ 1.64	-	- MWH	\$ 1.69	-	
19	Total	1,677 MWH		2,753	1,677 MWH		2,832	2.8%
20								
21								
22								
23	Total Base Revenue:			67,067,144			68,577,504	2.3%
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Supporting Schedules:

Recap Schedules: E-13a

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TAMPA ELECTRIC COMPANY  
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FLORIDA PUBLIC SERVICE COMMISSION      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.

COMPANY: TAMPA ELECTRIC COMPANY

DOCKET No. 130040-EI

Type of data shown:      XX Projected Test year Ended 12/31/2020

PROVIDE TOTAL NUMBER OF BILLS, MWH's, AND BILLING kW FOR EACH RATE SCHEDULE (INCLUDING STANDARD AND TIME OF USE CUSTOMERS) AND TRANSFER GROUP.

Line No.	Type of Charges	Rate Schedule			CS			Percent Increase
		Present Revenue Calculation			Proposed Revenue Calculation			
		Units	Charge/Unit	\$ Revenue	Units	Charge/Unit	\$ Revenue	
1								
2	Basic Service Charge:							
3		46,424 Bills	\$ 18.14	842,128	46,424 Bills	\$ 18.14	842,128	
4	Total	46,424 Bills		842,128	46,424 Bills		842,128	0.0%
5								
6	Energy Charge:							
7		16,241 MWH	\$ 54.12	878,940	16,241 MWH	\$ 55.68	904,218	
8	Total	16,241 MWH		878,940	16,241 MWH		904,218	2.9%
9								
10								
11								
12	Total Base Revenue:			1,721,068			1,746,345	1.5%
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Supporting Schedules:

Recap Schedules: E-13a

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TAMPA ELECTRIC COMPANY  
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FLORIDA PUBLIC SERVICE COMMISSION

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.

Type of data shown:

XX Projected Test year Ended 12/31/2020

COMPANY: TAMPA ELECTRIC COMPANY

DOCKET No. 130040-EI

PROVIDE TOTAL NUMBER OF BILLS, MWH's, AND BILLING KW FOR EACH RATE SCHEDULE (INCLUDING STANDARD AND TIME OF USE CUSTOMERS) AND TRANSFER GROUP.

Rate Schedule GSD, GSDI

Line No.	Type of Charges	Present Revenue Calculation			Proposed Revenue Calculation			Percent Increase
		Units	Charge/Unit	\$ Revenue	Units	Charge/Unit	\$ Revenue	
1	Basic Service Charge:							
2	Standard - Secondary	147,334 Bills	\$ 30.24	4,455,272	147,334 Bills	\$ 30.24	4,455,272	
3	Standard - Primary	709 Bills	\$ 131.03	92,842	709 Bills	\$ 131.03	92,842	
4	Standard - Subtransmission	- Bills	\$ 997.80	-	0 Bills	\$ 997.80	-	
5	T-O-D - Secondary	14,609 Bills	\$ 30.24	441,765	14,609 Bills	\$ 30.24	441,765	
6	T-O-D - Primary	726 Bills	\$ 131.03	95,126	726 Bills	\$ 131.03	95,126	
7	T-O-D - Subtransmission	23 Bills	\$ 997.80	22,950	23 Bills	\$ 997.80	22,950	
8	Total	163,401 Bills		5,107,956	163,401 Bills		5,107,956	0.0%
9								
10	Energy Charge:							
11	Standard - Secondary	4,256,906 MWH	\$ 15.96	67,925,666	4,256,906 MWH	\$ 15.96	67,925,666	
12	Standard - Primary	272,236 MWH	\$ 15.96	4,343,956	272,236 MWH	\$ 15.96	4,343,956	
13	Standard - Subtransmission	- MWH	\$ 15.96	-	- MWH	\$ 15.96	-	
14	T-O-D On-Peak - Secondary	526,866 MWH	\$ 29.21	15,390,429	526,866 MWH	\$ 29.21	15,390,429	
15	T-O-D On-Peak - Primary	264,479 MWH	\$ 29.21	7,725,770	264,479 MWH	\$ 29.21	7,725,770	
16	T-O-D On-Peak - Subtrans.	394 MWH	\$ 29.21	11,509	394 MWH	\$ 29.21	11,509	
17	T-O-D Off-Peak - Secondary	1,462,761 MWH	\$ 10.54	15,422,936	1,462,761 MWH	\$ 10.54	15,422,936	
18	T-O-D Off-Peak - Primary	727,910 MWH	\$ 10.54	7,674,876	727,910 MWH	\$ 10.54	7,674,876	
19	T-O-D Off-Peak - Subtrans.	1,054 MWH	\$ 10.54	11,113	1,054 MWH	\$ 10.54	11,113	
20	Total	7,512,606 MWH		118,506,256	7,512,606 MWH		118,506,256	0.0%
21								
22	Demand Charge:							
23	Standard - Secondary	11,166,047 kW	\$ 10.59	118,248,438	11,166,047 kW	\$ 11.08	123,719,801	
24	Standard - Primary	678,283 kW	\$ 10.59	7,183,017	678,283 kW	\$ 11.08	7,515,376	
25	Standard - Subtransmission	- kW	\$ 10.59	-	- kW	\$ 11.08	-	
26	T-O-D Billing - Secondary	3,746,018 kW	\$ 3.57	13,373,284	3,746,018 kW	\$ 3.73	13,972,647	
27	T-O-D Billing - Primary	1,888,089 kW	\$ 3.57	6,740,478	1,888,089 kW	\$ 3.73	7,042,572	
28	T-O-D Billing - Subtrans.	4,882 kW	\$ 3.57	17,429	4,882 kW	\$ 3.73	18,210	
29	T-O-D Peak - Secondary	3,615,816 kW (1)	\$ 7.02	25,383,028	3,615,816 kW (1)	\$ 7.34	26,540,089	
30	T-O-D Peak - Primary	1,817,745 kW (1)	\$ 7.02	12,760,570	1,817,745 kW (1)	\$ 7.34	13,342,248	
31	T-O-D Peak - Subtrans.	4,812 kW (1)	\$ 7.02	33,780	4,812 kW (1)	\$ 7.34	35,320	
32	Total	17,483,319 kW		183,740,024	17,483,319 kW		192,186,263	4.6%
33								
34	(1) Not included in Total.							
35								

Continued on Page 6

Supporting Schedules:

Recap Schedules: E-13a

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TAMPA ELECTRIC COMPANY  
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FLORIDA PUBLIC SERVICE COMMISSION 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.

COMPANY: TAMPA ELECTRIC COMPANY

DOCKET No. 130040-EI 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 12/31/2020

23

Line No.	Type of Charges	Present Revenue Calculation			Proposed Revenue Calculation			Percent Increase
		Units	Charge/Unit	\$ Revenue	Units	Charge/Unit	\$ Revenue	
1	Continued from Page 8							
2								
3	Delivery Voltage Credit:							
4	Standard Primary	640,319 kW	\$ (0.86)	(550,674)	640,319 kW	\$ (0.90)	(576,287)	
5	Standard - Subtransmission	- kW	\$ (2.66)	-	- kW	\$ (2.78)	-	
6	T-O-D Primary	1,515,029 kW	\$ (0.86)	(1,302,925)	1,515,029 kW	\$ (0.90)	(1,363,526)	
7	T-O-D Subtransmission	4,552 kW	\$ (2.66)	(12,108)	4,552 kW	\$ (2.78)	(12,655)	
8	Total	2,159,900 kW		(1,865,708)	2,159,900 kW		(1,952,468)	4.7%
9								
10	Emergency Relay Charge:							
11	Standard Secondary	492,088 kW	\$ 0.68	334,620	492,088 kW	\$ 0.71	349,382	
12	Standard Primary	175,006 kW	\$ 0.68	119,004	175,006 kW	\$ 0.71	124,254	
13	Standard - Subtransmission	- kW	\$ 0.68	-	- kW	\$ 0.71	-	
14	T-O-D Secondary	777,079 kW	\$ 0.68	528,414	777,079 kW	\$ 0.71	551,726	
15	T-O-D Primary	739,960 kW	\$ 0.68	503,173	739,960 kW	\$ 0.71	525,372	
16	T-O-D Subtransmission	- kW	\$ 0.68	-	- kW	\$ 0.71	-	
17	Total	2,184,133 kW		1,485,210	2,184,133 kW		1,550,734	4.4%
18								
19	Power Factor Charge:							
20	Standard Secondary	13,438 MVARh	\$ 2.02	27,146	13,438 MVARh	\$ 2.02	27,146	
21	Standard Primary	4,936 MVARh	\$ 2.02	9,971	4,936 MVARh	\$ 2.02	9,971	
22	Standard - Subtransmission	0 MVARh	\$ 2.02	-	0 MVARh	\$ 2.02	-	
23	T-O-D Secondary	15,334 MVARh	\$ 2.02	30,976	15,334 MVARh	\$ 2.02	30,976	
24	T-O-D Primary	7,952 MVARh	\$ 2.02	16,064	7,952 MVARh	\$ 2.02	16,064	
25	T-O-D Subtransmission	43 MVARh	\$ 2.02	87	43 MVARh	\$ 2.02	87	
26	Total	41,703 MVARh		84,244	41,703 MVARh		84,244	0.0%
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30								
31								
32								
33								
34								
35								

Supporting Schedules:

Recap Schedules: E-13a

TAMPA ELECTRIC COMPANY  
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DOCKET No. 130040-EI

Type of data shown: XX Projected Test year Ended 12/31/2020

PROVIDE TOTAL NUMBER OF BILLS, MWH's, AND BILLING KW FOR EACH RATE SCHEDULE (INCLUDING STANDARD AND TIME OF USE CUSTOMERS) AND TRANSFER GROUP.

Rate Schedule GSD, GSDI

Line No.	Type of Charges	Present Revenue Calculation			Proposed Revenue Calculation			Percent Increase
		Units	Charge/Unit	\$ Revenue	Units	Charge/Unit	\$ Revenue	
1	Continued from Page 9							
2								
3	Power Factor Credit:							
4	Standard Secondary	39514 MVARh	\$ (1.01)	(39,911)	39514 MVARh	\$ (1.01)	(39,911)	
5	Standard Primary	21307 MVARh	\$ (1.01)	(21,521)	21307 MVARh	\$ (1.01)	(21,521)	
6	Standard - Subtransmission	0 MVARh	\$ (1.01)	-	0 MVARh	\$ (1.01)	-	
7	T-O-D Secondary	120485 MVARh	\$ (1.01)	(121,695)	120485 MVARh	\$ (1.01)	(121,695)	
8	T-O-D Primary	71098 MVARh	\$ (1.01)	(71,812)	71098 MVARh	\$ (1.01)	(71,812)	
9	T-O-D Subtransmission	0 MVARh	\$ (1.01)	-	0 MVARh	\$ (1.01)	-	
10		252,404 MVARh		(254,939)	252,404 MVARh		(254,939)	0.0%
11								
12								
13	Metering Voltage Adjustment:							
14	Standard Primary	11,083,753 \$	-1%	(110,838)	11,395,749 \$	-1%	(113,957)	
15	Standard - Subtransmission	- \$	-2%	-	- \$	-2%	-	
16	T-O-D Primary	34,046,193 \$	-1%	(340,462)	34,891,563 \$	-1%	(348,916)	
17	T-O-D Subtransmission	61,810 \$	-2%	(1,236)	63,585 \$	-2%	(1,272)	
18	Total	45,191,756 \$		(452,536)	46,350,897 \$		(464,145)	2.6%
19								
20								
21								
22								
23	Total Base Revenue:			306,350,507			314,763,901	2.7%
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								

Supporting Schedules:

Recap Schedules: E-13a

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TAMPA ELECTRIC COMPANY  
 DOCKET NO. 2019 \_\_\_\_\_ -EI  
 EXHIBIT NO. \_\_\_\_\_ (WRA-1)  
 WITNESS: ASHBURN  
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FLORIDA PUBLIC SERVICE COMMISSION 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.

COMPANY: TAMPA ELECTRIC COMPANY

DOCKET No. 130040-EI

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 12/31/2020

Rate Schedule GSD Optional

Line No.	Type of Charges	Present Revenue Calculation			Proposed Revenue Calculation			Percent Increase
		Units	Charge/Unit	\$ Revenue	Units	Charge/Unit	\$ Revenue	
1	Basic Service Charge:							
2	Optional - Secondary	31,860 Bills	\$ 30.24	963,423	31,860 Bills	\$ 30.24	963,423	
3	Optional - Primary	314 Bills	\$ 131.03	41,143	314 Bills	\$ 131.03	41,143	
4	Optional - Subtransmission	-	\$ 997.80	-	-	\$ 997.80	-	
5	Total	32,174 Bills		1,004,566	32,174 Bills		1,004,566	0.0%
6								
7	Energy Charge:							
8	Optional - Secondary	498,980 MWH	\$ 64.94	32,403,761	498,980 MWH	\$ 66.81	33,336,854	
9	Optional - Primary	9,705 MWH	\$ 64.94	630,243	9,705 MWH	\$ 66.81	648,391	
10	Total	508,685 MWH		33,034,004	508,685 MWH		33,985,245	2.9%
11								
12	Demand Charge:							
13	Optional - Secondary	3,011,720 kW	\$ -	-	3,011,720 kW	\$ -	-	
14	Optional - Primary	82,063 kW	\$ -	-	82,063 kW	\$ -	-	
15	Total	3,093,783 kW		-	3,093,783		-	0.0%
16								
17	Delivery Voltage Credit:							
18	Optional - Primary	6,929 MWH	\$ (2.28)	(15,798)	6,929 MWH	\$ (2.39)	(16,560)	
19	Optional - Subtransmission	- MWH	\$ (6.95)	-	- MWH	\$ (7.27)	-	
20	Total	6,929 MWH		(15,798)	6,929 MWH		(16,560)	4.8%
21								
22	Emergency Relay							
23	Optional - Secondary	15,939 MWH	\$ 1.72	27,415	15,939 MWH	\$ 1.80	28,690	
24	Optional - Primary	- MWH	\$ 1.72	-	- MWH	\$ 1.80	-	
25	Total	15,939 MWH		27,415	15,939 MWH		28,690	4.7%
26								
27	Metering Voltage Adjustment:							
28	Optional - Primary	614,445 \$	-1%	(6,144)	631,831 \$	-1%	(6,318)	
29	Optional - Subtransmission	- \$	-2%	-	- \$	-2%	-	
30	Total	614,445 \$		(6,144)	631,831 \$		(6,318)	2.8%
31								
32								
33								
34	Total Base Revenue:			34,044,042			34,995,622	2.8%
35								

Supporting Schedules:

Recap Schedules: E-13a

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TAMPA ELECTRIC COMPANY  
 DOCKET NO. 2019 \_\_\_\_\_ -EI  
 EXHIBIT NO. \_\_\_\_\_ (WRA-1)  
 WITNESS: ASHBURN  
 DOCUMENT NO. 2  
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FLORIDA PUBLIC SERVICE COMMISSION 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 Type of data shown: XX Projected Test year Ended 12/31/2020

COMPANY: TAMPA ELECTRIC COMPANY 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.

DOCKET No. 130040-EI PROVIDE TOTAL NUMBER OF BILLS, MWH's, AND BILLING KW FOR EACH RATE SCHEDULE (INCLUDING STANDARD AND TIME OF USE CUSTOMERS) AND TRANSFER GROUP.

Rate Schedule SBF, SBFT

Line No.	Type of Charges	Present Revenue Calculation			Proposed Revenue Calculation			Percent Increase
		Units	Charge/Unit	\$ Revenue	Units	Charge/Unit	\$ Revenue	
1								
2	Basic Service Charge:							
3	Standard Secondary	0 Bills	\$ 55.43	-	0 Bills	\$ 55.43	-	
4	Standard Primary	0 Bills	\$ 156.22	-	0 Bills	\$ 156.22	-	
5	Standard Subtransmission	0 Bills	\$ 1,023.00	-	0 Bills	\$ 1,023.00	-	
6	T-O-D Secondary	0 Bills	\$ 55.43	-	0 Bills	\$ 55.43	-	
7	T-O-D Primary	37 Bills	\$ 156.22	5,780	37 Bills	\$ 156.22	5,780	
8	T-O-D Subtransmission	49 Bills	\$ 1,023.00	50,127	49 Bills	\$ 1,023.00	50,127	
9	Total	86 Bills		55,907	86 Bills		55,907	0.0%
10								
11	Energy Charge - Supplemental:							
12	Standard Secondary	0 MWH	\$ 15.96	-	- MWH	\$ 15.96	-	
13	Standard Primary	0 MWH	\$ 15.96	-	- MWH	\$ 15.96	-	
14	Standard Subtransmission	0 MWH	\$ 15.96	-	- MWH	\$ 15.96	-	
15	T-O-D On-Peak - Secondary	0 MWH	\$ 29.21	-	- MWH	\$ 29.21	-	
16	T-O-D On-Peak - Primary	28,432 MWH	\$ 29.21	830,535	28,432 MWH	\$ 29.21	830,535	
17	T-O-D On-Peak - Subtrans.	- MWH	\$ 29.21	-	- MWH	\$ 29.21	-	
18	T-O-D Off-Peak - Secondary	0 MWH	\$ 10.54	-	- MWH	\$ 10.54	-	
19	T-O-D Off-Peak - Primary	85,163 MWH	\$ 10.54	897,934	85,163 MWH	\$ 10.54	897,934	
20	T-O-D Off-Peak - Subtrans.	- MWH	\$ 10.54	-	- MWH	\$ 10.54	-	
21	Energy Charge - Standby:							
22	T-O-D On-Peak -Secondary	- MWH	\$ 9.21	-	- MWH	\$ 9.21	-	
23	T-O-D On-Peak - Primary	952 MWH	\$ 9.21	8,765	952 MWH	\$ 9.21	8,765	
24	T-O-D On-Peak - Subtrans.	1,690 MWH	\$ 9.21	15,559	1,690 MWH	\$ 9.21	15,559	
25	T-O-D Off-Peak -Secondary	- MWH	\$ 9.21	-	- MWH	\$ 9.21	-	
26	T-O-D Off-Peak - Primary	3,174 MWH	\$ 9.21	29,221	3,174 MWH	\$ 9.21	29,221	
27	T-O-D Off-Peak - Subtrans.	5,634 MWH	\$ 9.21	51,869	5,634 MWH	\$ 9.21	51,869	
28	Total	125,045 MWH		1,833,883	125,045 MWH		1,833,883	0.0%
29								
30								
31								
32								
33								
34								
35								

Supporting Schedules:

Recap Schedules: E-13a

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TAMPA ELECTRIC COMPANY  
 DOCKET NO. 2019 \_\_\_\_\_ -EI  
 EXHIBIT NO. \_\_\_\_\_ (WRA-1)  
 WITNESS: ASHBURN  
 DOCUMENT NO. 2  
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FLORIDA PUBLIC SERVICE COMMISSION 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.

COMPANY: TAMPA ELECTRIC COMPANY

DOCKET No. 130040-EI

Type of data shown: XX Projected Test year Ended 12/31/2020

PROVIDE TOTAL NUMBER OF BILLS, MWH's, AND BILLING KW FOR EACH RATE SCHEDULE (INCLUDING STANDARD AND TIME OF USE CUSTOMERS) AND TRANSFER GROUP.

Rate Schedule SBF, SBFT

Line No.	Type of Charges	Present Revenue Calculation			Proposed Revenue Calculation			Percent Increase
		Units	Charge/Unit	\$ Revenue	Units	Charge/Unit	\$ Revenue	
1	Continued from Page 13							
2								
3	Demand Charge - Supplemental:							
4	Standard Secondary	- kW	\$ 10.59	-	- kW	\$ 11.08	-	
5	Standard Primary	- kW	\$ 10.59	-	- kW	\$ 11.08	-	
6	Standard Subtransmission	- kW	\$ 10.59	-	- kW	\$ 11.08	-	
7	T-O-D Billing - Secondary	- kW	\$ 3.57	-	- kW	\$ 3.73	-	
8	T-O-D Billing - Primary	190,379 kW	\$ 3.57	679,653	190,379 kW	\$ 3.73	710,114	
9	T-O-D billing - Subtransmission	- kW	\$ 3.57	-	- kW	\$ 3.73	-	
10	T-O-D Peak - Secondary	- kW (1)	\$ 7.02	-	- kW (1)	\$ 7.34	-	
11	T-O-D Peak - Primary	183,502 kW (1)	\$ 7.02	1,288,184	183,502 kW (1)	\$ 7.34	1,346,905	
12	T-O-D Peak - Subtransmission	- kW (1)	\$ 7.02	-	- kW (1)	\$ 7.34	-	
13	Demand Charge - Standby:							
14	T-O-D Facilities Reservation - Sec.	- kW	\$ 1.96	-	- kW	\$ 1.96	-	
15	T-O-D Facilities Reservation - Pri.	88,164 kW	\$ 1.96	172,801	88,164 kW	\$ 1.96	172,801	
16	T-O-D Facilities Reservation - Sub.	213,531 kW	\$ 1.96	418,521	213,531 kW	\$ 1.96	418,521	
17	T-O-D Power Supply Res. - Sec.	- kW (1)	\$ 1.56 / kW-mo.	-	- kW (1)	\$ 1.56 kW-mo.	-	
18	T-O-D Power Supply Res. - Pri.	46,765 kW (1)	\$ 1.56 / kW-mo.	72,953	46,765 kW (1)	\$ 1.56 kW-mo.	72,953	
19	T-O-D Power Supply Res. - Sub.	157,483 kW (1)	\$ 1.56 / kW-mo.	245,673	157,483 kW (1)	\$ 1.56 kW-mo.	245,673	
20	T-O-D Power Supply Dmd. - Sec.	- kW (1)	\$ 0.62 / kW-day	-	- kW (1)	\$ 0.62 kW-day	-	
21	T-O-D Power Supply Dmd. - Pri.	265,494 kW (1)	\$ 0.62 / kW-day	164,606	265,494 kW (1)	\$ 0.62 kW-day	164,606	
22	T-O-D Power Supply Dmd. - Sub.	237,125 kW (1)	\$ 0.62 / kW-day	147,018	237,125 kW (1)	\$ 0.62 kW-day	147,018	
23	Total	492,074 kW		3,189,410	492,074 kW		3,278,591	2.8%
24								
25								
26	Power Factor Charge Supplemental & Standby:							
27	Standard Secondary	- MVARh	\$ 2.02	-	- MVARh	\$ 2.02	-	
28	Standard Primary	- MVARh	\$ 2.02	-	- MVARh	\$ 2.02	-	
29	Standard Subtransmission	- MVARh	\$ 2.02	-	- MVARh	\$ 2.02	-	
30	T-O-D Secondary	- MVARh	\$ 2.02	-	- MVARh	\$ 2.02	-	
31	T-O-D Primary	4,865 MVARh	\$ 2.02	9,828	4,865 MVARh	\$ 2.02	9,828	
32	T-O-D Subtransmission	1,264 MVARh	\$ 2.02	2,553	1,264 MVARh	\$ 2.02	2,553	
33		6,129		12,381	6,129		12,381	0.0%
34	(1) Not included in Total.							
35								

Continued on Page 11

Supporting Schedules:

Recap Schedules: E-13a

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TAMPA ELECTRIC COMPANY  
 DOCKET NO. 2019 \_\_\_\_\_ -EI  
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 DOCUMENT NO. 2  
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FLORIDA PUBLIC SERVICE COMMISSION 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.

COMPANY: TAMPA ELECTRIC COMPANY

DOCKET No. 130040-EI

Type of data shown: XX Projected Test year Ended 12/31/2020

PROVIDE TOTAL NUMBER OF BILLS, MWH's, AND BILLING KW FOR EACH RATE SCHEDULE (INCLUDING STANDARD AND TIME OF USE CUSTOMERS) AND TRANSFER GROUP.

Rate Schedule SBF, SBFT

Line No.	Type of Charges	Present Revenue Calculation			Proposed Revenue Calculation			Percent Increase
		Units	Charge/Unit	\$ Revenue	Units	Charge/Unit	\$ Revenue	
1	Continued from Page 14							
2								
3	Power Factor Credit Supplemental & Standby:							
4	Standard Secondary	- MVARh	\$ (1.01)	-	- MVARh	\$ (1.01)	-	
5	Standard Primary	- MVARh	\$ (1.01)	-	- MVARh	\$ (1.01)	-	
6	Standard Subtransmission	- MVARh	\$ (1.01)	-	- MVARh	\$ (1.01)	-	
7	T-O-D Secondary	- MVARh	\$ (1.01)	-	- MVARh	\$ (1.01)	-	
8	T-O-D Primary	6,085 MVARh	\$ (1.01)	(6,146)	6,085 MVARh	\$ (1.01)	(6,146)	
9	T-O-D Subtransmission	880 MVARh	\$ (1.01)	(889)	880 MVARh	\$ (1.01)	(889)	
14	Total	6,965 MVARh		(7,035)	6,965 MVARh		(7,035)	0.0%
15								
16	Delivery Voltage Credit - Supplemental.:							
17	Standard Primary	- kW	\$ (0.86)	-	- kW	\$ (0.90)	-	
18	Standard Subtransmission	- kW	\$ (2.66)	-	- kW	\$ (2.78)	-	
19	T-O-D Primary	190,379 kW	\$ (0.86)	(163,726)	190,379 kW	\$ (0.90)	(171,341)	
20	T-O-D Subtransmission	- kW	\$ (2.66)	-	- kW	\$ (2.78)	-	
21	Delivery Voltage Credit - Standby.:							
22	T-O-D Primary	88,079 kW	\$ (0.63)	(55,302)	88,079 kW	\$ (0.63)	(55,302)	
23	T-O-D Subtransmission	213,615 kW	\$ (1.97)	(419,859)	213,615 kW	\$ (1.97)	(419,859)	
24	Total	492,073 kW		(638,886)	492,073 kW		(646,501)	1.2%
25								
26	Emergency Relay Charge - Supplemental and Standby.							
27	Standard Secondary	- kW	\$ 0.68	-	- kW	\$ 0.71	-	
28	Standard Primary	- kW	\$ 0.68	-	- kW	\$ 0.71	-	
29	Standard Subtransmission	- kW	\$ 0.68	-	- kW	\$ 0.71	-	
30	T-O-D Secondary	- kW	\$ 0.68	-	- kW	\$ 0.71	-	
31	T-O-D Primary	161,916 kW	\$ 0.68	110,103	161,916 kW	\$ 0.71	114,960	
32	T-O-D Subtransmission	- kW	\$ 0.68	-	- kW	\$ 0.71	-	
33	Total	161,916		110,103	161,916		114,960	4.4%
34								
35								
36								
37								
38								
39								

Supporting Schedules:

Recap Schedules: E-13a

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TAMPA ELECTRIC COMPANY  
 DOCKET NO. 2019 \_\_\_\_\_ -EI  
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FLORIDA PUBLIC SERVICE COMMISSION      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.

COMPANY: TAMPA ELECTRIC COMPANY

DOCKET No. 130040-EI

Type of data shown:      XX Projected Test year Ended 12/31/2020

PROVIDE TOTAL NUMBER OF BILLS, MWH's, AND BILLING KW FOR EACH RATE SCHEDULE (INCLUDING STANDARD AND TIME OF USE CUSTOMERS) AND TRANSFER GROUP.

Rate Schedule      SBF, SBFT

Line No.	Type of Charges	Present Revenue Calculation			Proposed Revenue Calculation			Percent Increase
		Units	Charge/Unit	\$ Revenue	Units	Charge/Unit	\$ Revenue	
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	4,039,410	\$ -1.0%	(40,394)	4,125,834	\$ -1.0%	(41,258)	
7	T-O-D Subtransmission	460,446	\$ -2.0%	(9,209)	460,446	\$ -2.0%	(9,209)	
8	Total	4,499,856	\$	(49,603)	4,586,279	\$	(50,467)	1.7%
9								
10								
11								
12	Total Base Revenue:			4,506,160			4,591,719	1.9%
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								

Supporting Schedules:

Recap Schedules: E-13a

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TAMPA ELECTRIC COMPANY  
 DOCKET NO. 2019 \_\_\_\_\_ -EI  
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FLORIDA PUBLIC SERVICE COMMISSION 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.

COMPANY: TAMPA ELECTRIC COMPANY

DOCKET No. 130040-EI

Type of data shown: XX Projected Test year Ended 12/31/2020

PROVIDE TOTAL NUMBER OF BILLS, MWH's, AND BILLING KW FOR EACH RATE SCHEDULE (INCLUDING STANDARD AND TIME OF USE CUSTOMERS) AND TRANSFER GROUP.

Rate Schedule IS, IST

Line No.	Type of Charges	Present Revenue Calculation			Proposed Revenue Calculation			Percent Increase
		Units	Charge/Unit	\$ Revenue	Units	Charge/Unit	\$ Revenue	
1								
2	Basic Service Charge:							
3	Standard Pri.	66 Bills	\$ 626.90	41,375	66 Bills	\$ 626.90	41,375	
4	Standard Subtrans.	- Bills	\$ 2,390.70	-	- Bills	\$ 2,390.70	-	
5	T-O-D Primary	95 Bills	\$ 626.90	59,813	95 Bills	\$ 626.90	59,813	
6	T-O-D Subtransmission	85 Bills	\$ 2,390.70	202,756	85 Bills	\$ 2,390.70	202,756	
7	Total	246 Bills		303,944	246 Bills		303,944	0.0%
8								
9	Energy Charge:							
10	Standard Primary	41,745 MWH	\$ 25.24	1,053,468	41,745 MWH	\$ 25.24	1,053,468	
11	Standard Subtransmission	- MWH	\$ 25.24	-	- MWH	\$ 25.24	-	
12	T-O-D On-Peak - Pri.	20,539 MWH	\$ 25.24	518,318	20,539 MWH	\$ 25.24	518,318	
13	T-O-D On-Peak - Subtrans.	51,946 MWH	\$ 25.24	1,310,898	51,946 MWH	\$ 25.24	1,310,898	
14	T-O-D Off-Peak - Pri.	54,510 MWH	\$ 25.24	1,375,602	54,510 MWH	\$ 25.24	1,375,602	
15	T-O-D Off-Peak - Subtrans.	163,884 MWH	\$ 25.24	4,135,740	163,884 MWH	\$ 25.24	4,135,740	
16	Total	332,624 MWH		8,394,026	332,624 MWH		8,394,026	0.0%
17								
18	Demand Charge:							
19	Standard Primary	102,223 kW	\$ 3.11	317,914	102,223 kW	\$ 4.04	412,981	
20	Standard Subtrans.	- kW	\$ 3.11	-	- kW	\$ 4.04	-	
21	T-O-D Billing - Primary	146,074 kW	\$ 3.11	454,290	146,074 kW	\$ 4.04	590,139	
22	T-O-D Billing - Subtrans.	599,740 kW	\$ 3.11	1,865,191	599,740 kW	\$ 4.04	2,422,950	
23	T-O-D Peak - Primary	- kW (1)	\$ -	-	- kW (1)	\$ -	-	
24	T-O-D Peak - Subtrans.	- kW (1)	\$ -	-	- kW (1)	\$ -	-	
25	Total	848,037 kW		2,637,395	848,037 kW		3,426,069	29.9%
26								
27	Power Factor Charge:							
28	Standard Primary	5,505 MVARh	\$ 2.02	11,121	5,505 MVARh	\$ 2.02	11,121	
29	Standard Subtrans.	- MVARh	\$ 2.02	-	- MVARh	\$ 2.02	-	
30	T-O-D Primary	6,708 MVARh	\$ 2.02	13,551	6,708 MVARh	\$ 2.02	13,551	
31	T-O-D Subtransmission	11,474 MVARh	\$ 2.02	23,178	11,474 MVARh	\$ 2.02	23,178	
32	Total	23,687 MVARh		47,850	23,687 MVARh		47,850	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. 2019 \_\_\_\_\_ -EI  
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FLORIDA PUBLIC SERVICE COMMISSION 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.

COMPANY: TAMPA ELECTRIC COMPANY

DOCKET No. 130040-EI

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 12/31/2020

31

Line No.	Type of Charges	Present Revenue Calculation			Proposed Revenue Calculation			Percent Increase
		Units	Charge/Unit	\$ Revenue	Units	Charge/Unit	\$ Revenue	
1	Continued from Page 17							
2								
3	Power Factor Credit:							
4	Standard Primary	3,426 MVARh	\$ (1.01)	(3,460)	3,426 MVARh	\$ (1.01)	(3,460)	
5	Standard Subtrans.	- MVARh	\$ (1.01)	-	- MVARh	\$ (1.01)	-	
6	T-O-D Primary	3,036 MVARh	\$ (1.01)	(3,066)	3,036 MVARh	\$ (1.01)	(3,066)	
7	T-O-D Subtransmission	650 MVARh	\$ (1.01)	(657)	650 MVARh	\$ (1.01)	(657)	
8	Total	7,112 MVARh		(7,183)	7,112 MVARh		(7,183)	0.0%
9								
10	Emergency Relay Service							
11	Standard Primary	- kW	\$ 1.22	-	- kW	\$ 1.58	-	
12	Standard Subtrans.	- kW	\$ 1.22	-	- kW	\$ 1.58	-	
13	T-O-D Primary	- kW	\$ 1.22	-	- kW	\$ 1.58	-	
14	T-O-D Subtransmission	- kW	\$ 1.22	-	- kW	\$ 1.58	-	
15	Total	- kW		-	- kW		-	0.0%
16								
17	Delivery Voltage Credit:							
18	Standard Primary	102,223 kW	\$ (0.85)	(86,890)	102,223 kW	\$ (1.10)	(112,445)	
19	Standard Subtrans.	- kW	\$ (0.85)	-	- kW	\$ (1.10)	-	
20	T-O-D Primary	138,468 kW	\$ (0.85)	(117,698)	138,468 kW	\$ (1.10)	(152,315)	
21	T-O-D Subtransmission	607,346 kW	\$ (0.85)	(516,244)	607,346 kW	\$ (1.10)	(668,081)	
22	Total	848,037 kW		(720,831)	848,037 kW		(932,841)	29.4%
23								
24	Metering Voltage Adjustment:							
25	Standard Primary	1,292,152 \$	0%	-	1,361,663 \$	0%	-	
26	Standard Subtrans.	- \$	-1%	-	- \$	-1%	-	
27	T-O-D Primary	2,240,997 \$	0%	-	2,342,228 \$	0%	-	
28	T-O-D Subtransmission	6,818,107 \$	-1%	(68,181)	7,224,029 \$	-1%	(72,240)	
29	Total	10,351,256 \$		(68,181)	10,927,921 \$		(72,240)	6.0%
30								
31								
32								
33	Total Base Revenue:			10,587,018			11,159,624	5.4%
34								
35								

Supporting Schedules:

Recap Schedules: E-13a

TAMPA ELECTRIC COMPANY  
DOCKET NO. 2019 \_\_\_\_\_ -EI  
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FLORIDA PUBLIC SERVICE COMMISSION 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 Type of data shown: XX Projected Test year Ended 12/31/2020

COMPANY: TAMPA ELECTRIC COMPANY 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.

DOCKET No. 130040-EI PROVIDE TOTAL NUMBER OF BILLS, MWH's, AND BILLING KW FOR EACH RATE SCHEDULE (INCLUDING STANDARD AND TIME OF USE CUSTOMERS) AND TRANSFER GROUP.

Rate Schedule SBI

Line No.	Type of Charges	Present Revenue Calculation			Proposed Revenue Calculation			Percent Increase
		Units	Charge/Unit	\$ Revenue	Units	Charge/Unit	\$ Revenue	
1								
2	Basic Service Charge:							
3	T-O-D Primary	0 Bills	\$ 652	-	0 Bills	\$ 652.10	-	
4	T-O-D Subtransmission	45 Bills	\$ 2,416	108,716	45 Bills	\$ 2,415.90	108,716	
5	Total	45 Bills		108,716	45 Bills		108,716	0.0%
6								
7	Energy Charge - Supplemental:							
8	T-O-D On-Peak - Pri.	- MWH	\$ 25.24	-	- MWH	\$ 25.24	-	
9	T-O-D On-Peak - Subtrans.	21,251 MWH	\$ 25.24	536,286	21,251 MWH	\$ 25.24	536,286	
10	T-O-D Off-Peak - Pri.	- MWH	\$ 25.24	-	- MWH	\$ 25.24	-	
11	T-O-D Off-Peak - Subtrans.	69,333 MWH	\$ 25.24	1,749,672	69,333 MWH	\$ 25.24	1,749,672	
12	Energy Charge - Standby:							
13	T-O-D On-Peak - Pri.	- MWH	\$ 10.14	-	- MWH	\$ 10.14	-	
14	T-O-D On-Peak - Subtrans.	54,941 MWH	\$ 10.14	557,291	54,941 MWH	\$ 10.14	557,291	
15	T-O-D Off-Peak - Pri.	- MWH	\$ 10.14	-	- MWH	\$ 10.14	-	
16	T-O-D Off-Peak - Subtrans.	171,275 MWH	\$ 10.14	1,737,317	171,275 MWH	\$ 10.14	1,737,317	
17	Total	316,800 MWH		4,580,565	316,800 MWH		4,580,565	0.0%
18								
19	Demand Charge - Supplemental:							
20	T-O-D Billing - Primary	- kW	\$ 3.11 kW	-	- kW	\$ 4.04 kW	-	
21	T-O-D Billing - Subtrans.	165,489 kW	\$ 3.11 kW	514,671	165,489 kW	\$ 4.04 kW	668,576	
22	T-O-D Peak - Primary	- kW (1)	\$ - kW	-	- kW (1)	\$ - kW	-	
23	T-O-D Peak - Subtrans.	179,356 kW (1)	\$ - kW	-	179,356 kW (1)	\$ - kW	-	
24	Demand Charge - Standby:							
25	T-O-D Facilities Reservation - Pri.	- kW	\$ 1.46 kW	-	- kW	\$ 1.46 kW	-	
26	T-O-D Facilities Res. - Subtrans.	2,237,967 kW	\$ 1.46 kW	3,267,432	2,237,967 kW	\$ 1.46 kW	3,267,432	
27	T-O-D Bulk Trans. Res. - Pri.	- kW (1)	\$ 1.21 kW-mo.	-	- kW (1)	\$ 1.21 kW-mo.	-	
28	T-O-D Bulk Trans. Res. - Subtrans.	280,290 kW (1)	\$ 1.21 kW-mo.	339,151	280,290 kW (1)	\$ 1.21 kW-mo.	339,151	
29	T-O-D Bulk Trans. Dmd. - Pri.	- kW (1)	\$ 0.48 kW-day	-	- kW (1)	\$ 0.48 kW-day	-	
30	T-O-D Bulk Trans Dmd. - Subtrans.	11,849,122 kW (1)	\$ 0.48 kW-day	5,687,578	11,849,122 kW (1)	\$ 0.48 kW-day	5,687,578	
31	Total	2,403,456 kW		9,808,832	2,403,456 kW		9,962,737	1.6%
32								
33								
34	(1) Not included in Total.							
35								

Continued on Page 16

Supporting Schedules:

Recap Schedules: E-13a

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TAMPA ELECTRIC COMPANY  
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FLORIDA PUBLIC SERVICE COMMISSION 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.

COMPANY: TAMPA ELECTRIC COMPANY

DOCKET No. 130040-EI

Type of data shown: XX Projected Test year Ended 12/31/2020

PROVIDE TOTAL NUMBER OF BILLS, MWH's, AND BILLING kW FOR EACH RATE SCHEDULE (INCLUDING STANDARD AND TIME OF USE CUSTOMERS) AND TRANSFER GROUP.

Rate Schedule SBI

Line No.	Type of Charges	Present Revenue Calculation			Proposed Revenue Calculation			Percent Increase
		Units	Charge/Unit	\$ Revenue	Units	Charge/Unit	\$ Revenue	
1	Continued from Page 19							
2								
3	Power Factor Charge Supplemental & Standby:							
4	T-O-D Primary	- MVARh	\$ 2.02	-	- MVARh	\$ 2.02	-	
5	T-O-D Subtransmission	79,013 MVARh	\$ 2.02	159,613	79,013 MVARh	\$ 2.02	159,613	
6	Total	79,013 MVARh		159,613	79,013 MVARh		159,613	0.0%
7								
8	Power Factor Credit Supplemental & Standby:							
9	T-O-D Primary	- MVARh	\$ (1.01)	-	- MVARh	\$ (1.01)	-	
10	T-O-D Subtransmission	44,770 MVARh	\$ (1.01)	(45,220)	44,770 MVARh	\$ (1.01)	(45,220)	
11	Total	44,770 MVARh		(45,220)	44,770 MVARh		(45,220)	0.0%
12								
13	Emergency Relay Charge - Supp.							
14	T-O-D Primary	- kW	\$ 1.22	-	- kW	\$ 1.58	-	
15	T-O-D Subtransmission	- kW	\$ 1.22	-	- kW	\$ 1.58	-	
16	Total	- kW		-	- kW		-	0.0%
17								
18	Delivery Voltage Credit - Supplemental:							
19	T-O-D Primary	- kW	\$ -	-	- kW	\$ -	-	
20	T-O-D Subtransmission	165,489 kW	\$ (0.85)	(140,666)	165,489 kW	\$ (1.10)	(182,038)	
21	Delivery Voltage Credit - Standby.:							
22	T-O-D Primary	- kW	\$ -	-	- kW	\$ -	-	
23	T-O-D Subtransmission	2,237,967 kW	\$ (0.34)	(753,482)	2,237,967 kW	\$ (0.34)	(753,482)	
24	Total	2,403,456 kW		(894,148)	2,403,456 kW		(935,520)	4.6%
25								
26	Metering Voltage Adjustment - Supplemental and Stanby.:							
27	T-O-D Primary	- \$	0.0%	-	- \$	0.0%	-	
28	T-O-D Subtransmission	13,609,644 \$	-1.0%	(136,096)	13,722,176 \$	-1.0%	(137,222)	
29	Total	13,609,644 \$		(136,096)	13,722,176 \$		(137,222)	0.8%
30								
31								
32								
33	Total Base Revenue:			13,582,263			13,693,670	0.8%
34								
35								

Supporting Schedules:

Recap Schedules: E-13a

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TAMPA ELECTRIC COMPANY  
 DOCKET NO. 2019 \_\_\_\_\_ -EI  
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FLORIDA PUBLIC SERVICE COMMISSION 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.

COMPANY: TAMPA ELECTRIC COMPANY

DOCKET No. 130040-EI

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 12/31/2020

Rate Schedule LS-1 (Energy Service)

Line No.	Type of Charges	Present Revenue Calculation			Proposed Revenue Calculation			Percent Increase
		Units	Charge/Unit	\$ Revenue	Units	Charge/Unit	\$ Revenue	
1								
2	Basic Service Charge:	2,893 Bills	\$ 10.57	30,582	2,893 Bills	\$ 10.57	30,582	0.0%
3								
4	Energy Charge	154,170 MWH	\$ 25.09	3,868,125	154,170 MWH	\$ 25.22	3,888,167	0.5%
5								
6								
7	Total Base Revenue:			<u>3,898,707</u>			<u>3,918,749</u>	0.5%

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TAMPA ELECTRIC COMPANY  
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WITNESS: ASHBURN  
DOCUMENT NO. 3

Rollup Base Revenue by Rate  
Class for Third SoBRA

FLORIDA PUBLIC SERVICE COMMISSION      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.

COMPANY: TAMPA ELECTRIC COMPANY

Type of data shown: XX Projected Year Ended 12/31/2020

(\$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)	(4) Percent (3) / (1)
1	RS, RSVP-1	649,680	664,535	14,855	2.3%
2	GS, GST	67,067	68,578	1,510	2.3%
3	CS	1,721	1,746	25	1.5%
4	GSD, GSDT	306,351	314,764	8,413	2.7%
5	GSD Optional	34,044	34,996	952	2.8%
6	SBF, SBFT	4,506	4,592	86	1.9%
7	IS, IST	10,587	11,160	573	5.4%
8	SBI	13,582	13,694	111	0.8%
9	LS-1 (Energy Service)	3,899	3,919	20	0.5%
10	LS-1 (Facilities)	43,545	43,545	-	0.0%
11					
12					
13	TOTAL	<u>\$ 1,134,982</u>	<u>\$ 1,161,527</u>	<u>\$ 26,545</u>	2.3%
14					
15					
16					
17					
18					
19					
20					
21					
22	Summary by Rate Class				
23	RS	649,680	664,535	14,855	2.3%
24	GS	68,788	70,324	1,536	2.2%
25	GS	68,788	70,324	1,536	2.2%
26	GS	68,788	70,324	1,536	2.2%
27	GSD	344,901	354,351	9,451	2.7%
28	GSD	344,901	354,351	9,451	2.7%
29	IS	24,169	24,853	684	2.8%
30	IS	24,169	24,853	684	2.8%
31	Lighting	<u>47,444</u>	<u>47,464</u>	<u>20</u>	0.0%
32	Lighting	<u>47,444</u>	<u>47,464</u>	<u>20</u>	0.0%
33	TOTAL	1,134,982	1,161,527	26,545	2.3%
34					
35					
36					

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TAMPA ELECTRIC COMPANY  
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DOCUMENT NO. 4

**Typical Bills Reflecting  
Third SoBRA Base Revenue Increase**

RS - RESIDENTIAL SERVICE

RATE SCHEDULE		BILL UNDER PRESENT RATES								BILL UNDER PROPOSED RATES						INCREASE		COSTS IN CENTS/KWH				
Line No.	RS		(3) BASE RATE	(4) FUEL CHARGE	(5) ECCR CHARGE	(6) CAPACITY CHARGE	(7) ECRC CHARGE	(8) GRT CHARGE	(9) TOTAL	(10) BASE RATE	(11) FUEL CHARGE	(12) ECCR CHARGE	(13) CAPACITY CHARGE	(14) ECRC CHARGE	(15) GRT CHARGE	(16) TOTAL	(17) DOLLARS		(18) PERCENT		(19) PRESENT (9)/(2)*100	(20) PROPOSED (16)/(2)*100
	(1) TYPICAL KW	(2) KWH															(16)-(9)	(17)/(9)				
1	0	-	\$ 15.12	\$ -	\$ -	\$ -	\$ -	\$ 0.39	\$ 15.51	\$ 15.12	\$ -	\$ -	\$ -	\$ -	\$ 0.39	\$ 15.51	\$ -	0.0%	-	-	-	-
2																						
3	0	100	\$ 20.26	\$ 2.91	\$ 0.32	\$ (0.01)	\$ 0.22	\$ 0.61	\$ 24.31	\$ 20.42	\$ 2.86	\$ 0.32	\$ (0.01)	\$ 0.22	\$ 0.61	\$ 24.41	\$ 0.10	0.4%	24.31	24.41		
4																						
5	0	250	\$ 27.97	\$ 7.28	\$ 0.80	\$ (0.03)	\$ 0.56	\$ 0.94	\$ 37.53	\$ 28.36	\$ 7.14	\$ 0.80	\$ (0.03)	\$ 0.56	\$ 0.94	\$ 37.78	\$ 0.25	0.7%	15.01	15.11		
6																						
7	0	500	\$ 40.83	\$ 14.57	\$ 1.61	\$ (0.05)	\$ 1.11	\$ 1.49	\$ 59.55	\$ 41.60	\$ 14.28	\$ 1.61	\$ (0.05)	\$ 1.11	\$ 1.50	\$ 60.04	\$ 0.50	0.8%	11.91	12.01		
8																						
9	0	750	\$ 53.68	\$ 21.85	\$ 2.41	\$ (0.08)	\$ 1.67	\$ 2.04	\$ 81.56	\$ 54.84	\$ 21.41	\$ 2.41	\$ (0.08)	\$ 1.67	\$ 2.06	\$ 82.31	\$ 0.75	0.9%	10.88	10.97		
10																						
11	0	1,000	\$ 66.53	\$ 29.13	\$ 3.21	\$ (0.10)	\$ 2.22	\$ 2.59	\$ 103.58	\$ 68.08	\$ 28.55	\$ 3.21	\$ (0.10)	\$ 2.22	\$ 2.61	\$ 104.58	\$ 0.99	1.0%	10.36	10.46		
12																						
13	0	1,250	\$ 81.89	\$ 38.91	\$ 4.01	\$ (0.13)	\$ 2.78	\$ 3.27	\$ 130.73	\$ 83.82	\$ 38.19	\$ 4.01	\$ (0.13)	\$ 2.78	\$ 3.30	\$ 131.97	\$ 1.24	1.0%	10.46	10.56		
14																						
15	0	1,500	\$ 97.24	\$ 48.70	\$ 4.82	\$ (0.15)	\$ 3.33	\$ 3.95	\$ 157.88	\$ 99.57	\$ 47.83	\$ 4.82	\$ (0.15)	\$ 3.33	\$ 3.98	\$ 159.37	\$ 1.49	0.9%	10.53	10.62		
16																						
17	0	2,000	\$ 127.95	\$ 68.26	\$ 6.42	\$ (0.20)	\$ 4.44	\$ 5.30	\$ 212.17	\$ 131.05	\$ 67.10	\$ 6.42	\$ (0.20)	\$ 4.44	\$ 5.35	\$ 214.16	\$ 1.99	0.9%	10.61	10.71		
18																						
19	0	3,000	\$ 189.36	\$ 107.39	\$ 9.63	\$ (0.30)	\$ 6.66	\$ 8.02	\$ 320.76	\$ 194.01	\$ 105.65	\$ 9.63	\$ (0.30)	\$ 6.66	\$ 8.09	\$ 323.75	\$ 2.98	0.9%	10.69	10.79		
20																						
21	0	5,000	\$ 312.19	\$ 185.65	\$ 16.05	\$ (0.50)	\$ 11.10	\$ 13.45	\$ 537.94	\$ 319.94	\$ 182.75	\$ 16.05	\$ (0.50)	\$ 11.10	\$ 13.57	\$ 542.91	\$ 4.97	0.9%	10.76	10.86		
22																						
23																						
24																						
25																						
26																						
27																						
28																						
29																						
30																						
31																						
32																						
33																						
34																						
35																						
36																						
37																						
38																						
39																						

	PRESENT	PROPOSED
25	CUSTOMER CHARGE 15.12 \$/Bill	15.12 \$/Bill
26	DEMAND CHARGE - \$/KW	- \$/KW
27	ENERGY CHARGE	
28	0 - 1,000 KWH 5.141 ¢/KWH	5.296 ¢/KWH
29	Over 1,000 KWH 6.141 ¢/KWH	6.296 ¢/KWH
30	FUEL CHARGE	
31	0 - 1,000 KWH 2.913 ¢/KWH	2.855 ¢/KWH
32	Over 1,000 KWH 3.913 ¢/KWH	3.855 ¢/KWH
33	CONSERVATION CHARGE 0.321 ¢/KWH	0.321 ¢/KWH
34	CAPACITY CHARGE (0.010) ¢/KWH	(0.010) ¢/KWH
35	ENVIRONMENTAL CHARGE 0.222 ¢/KWH	0.222 ¢/KWH
36	Notes:	
37	A. Current base rates are as of January 01, 2019.	
38	B. Current and Proposed clause rates are as of April 01, 2019.	
39	C. Proposed fuel rates are projected 2020 rates.	

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

Recap Schedules:

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TAMPA ELECTRIC COMPANY  
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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 12/31/2020

COMPANY: TAMPA ELECTRIC COMPANY

**GS - GENERAL SERVICE NON-DEMAND**

RATE SCHEDULE		BILL UNDER PRESENT RATES								BILL UNDER PROPOSED RATES						INCREASE		COSTS IN CENTS/KWH		
Line No.	GS		(3) BASE RATE	(4) FUEL CHARGE	(5) ECCR CHARGE	(6) CAPACITY CHARGE	(7) ECRC CHARGE	(8) GRT CHARGE	(9) TOTAL	(10) BASE RATE	(11) FUEL CHARGE	(12) ECCR CHARGE	(13) CAPACITY CHARGE	(14) ECRC CHARGE	(15) GRT CHARGE	(16) TOTAL	(17) DOLLARS (16)-(9)	(18) PERCENT (17)/(9)	(19) PRESENT (9)/(2)*100	(20) PROPOSED (16)/(2)*100
	(1) TYPICAL KW	(2) KWH																		
1	0	-	\$ 18.14	\$ -	\$ -	\$ -	\$ -	\$ 0.47	\$ 18.61	\$ 18.14	\$ -	\$ -	\$ -	\$ -	\$ 0.47	\$ 18.61	\$ -	0.0%	-	-
2																				
3	0	100	\$ 23.55	\$ 3.23	\$ 0.29	\$ (0.01)	\$ 0.22	\$ 0.70	\$ 27.98	\$ 23.71	\$ 3.17	\$ 0.29	\$ (0.01)	\$ 0.22	\$ 0.70	\$ 28.08	\$ 0.10	0.4%	27.98	28.08
4																				
5	0	250	\$ 31.67	\$ 8.07	\$ 0.73	\$ (0.02)	\$ 0.55	\$ 1.05	\$ 42.05	\$ 32.06	\$ 7.92	\$ 0.73	\$ (0.02)	\$ 0.55	\$ 1.06	\$ 42.30	\$ 0.25	0.6%	16.82	16.92
6																				
7	0	500	\$ 45.20	\$ 16.14	\$ 1.46	\$ (0.05)	\$ 1.11	\$ 1.64	\$ 65.49	\$ 45.98	\$ 15.85	\$ 1.46	\$ (0.05)	\$ 1.11	\$ 1.65	\$ 65.99	\$ 0.50	0.8%	13.10	13.20
8																				
9	0	750	\$ 58.73	\$ 24.20	\$ 2.19	\$ (0.07)	\$ 1.66	\$ 2.22	\$ 88.93	\$ 59.90	\$ 23.77	\$ 2.19	\$ (0.07)	\$ 1.66	\$ 2.24	\$ 89.69	\$ 0.75	0.8%	11.86	11.96
10																				
11	0	1,000	\$ 72.26	\$ 32.27	\$ 2.92	\$ (0.09)	\$ 2.21	\$ 2.81	\$ 112.38	\$ 73.81	\$ 31.69	\$ 2.92	\$ (0.09)	\$ 2.21	\$ 2.83	\$ 113.38	\$ 1.00	0.9%	11.24	11.34
12																				
13	0	1,250	\$ 85.79	\$ 40.34	\$ 3.65	\$ (0.11)	\$ 2.76	\$ 3.40	\$ 135.82	\$ 87.73	\$ 39.61	\$ 3.65	\$ (0.11)	\$ 2.76	\$ 3.43	\$ 137.07	\$ 1.25	0.9%	10.87	10.97
14																				
15	0	1,500	\$ 99.32	\$ 48.41	\$ 4.38	\$ (0.14)	\$ 3.32	\$ 3.98	\$ 159.26	\$ 101.65	\$ 47.54	\$ 4.38	\$ (0.14)	\$ 3.32	\$ 4.02	\$ 160.77	\$ 1.50	0.9%	10.62	10.72
16																				
17	0	2,000	\$ 126.38	\$ 64.54	\$ 5.84	\$ (0.18)	\$ 4.42	\$ 5.15	\$ 206.15	\$ 129.49	\$ 63.38	\$ 5.84	\$ (0.18)	\$ 4.42	\$ 5.20	\$ 208.15	\$ 2.00	1.0%	10.31	10.41
18																				
19	0	3,000	\$ 180.50	\$ 96.81	\$ 8.76	\$ (0.27)	\$ 6.63	\$ 7.50	\$ 299.92	\$ 185.16	\$ 95.07	\$ 8.76	\$ (0.27)	\$ 6.63	\$ 7.57	\$ 302.93	\$ 3.00	1.0%	10.00	10.10
20																				
21	0	5,000	\$ 288.73	\$ 161.35	\$ 14.60	\$ (0.45)	\$ 11.05	\$ 12.19	\$ 487.47	\$ 296.51	\$ 158.45	\$ 14.60	\$ (0.45)	\$ 11.05	\$ 12.31	\$ 492.48	\$ 5.01	1.0%	9.75	9.85
22																				
23	0	8,500	\$ 478.15	\$ 274.30	\$ 24.82	\$ (0.77)	\$ 18.79	\$ 20.39	\$ 815.67	\$ 491.38	\$ 269.37	\$ 24.82	\$ (0.77)	\$ 18.79	\$ 20.60	\$ 824.19	\$ 8.51	1.0%	9.60	9.70
24																				
25																				
26					PRESENT				PROPOSED											
27					CUSTOMER CHARGE	18.14	\$/Bill		18.14	\$/Bill										
28					ENERGY CHARGE	5.412	¢/kWh		5.568	¢/kWh										
29					FUEL CHARGE	3.227	¢/kWh		3.169	¢/kWh										
30					CONSERVATION CHARGE	0.292	¢/kWh		0.292	¢/kWh										
31					CAPACITY CHARGE	(0.009)	¢/kWh		(0.009)	¢/kWh										
32					ENVIRONMENTAL CHARGE	0.221	¢/kWh		0.221	¢/kWh										
33																				
34					Notes:															
35					A. Current base rates are as of January 01, 2019.															
36					B. Current and Proposed clause rates are as of April 01, 2019.															
37					C. Proposed fuel rates are projected 2020 rates.															
38																				
39																				

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

Recap Schedules:

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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 12/31/2020

COMPANY: TAMPA ELECTRIC COMPANY

**GSD - GENERAL SERVICE DEMAND**

RATE SCHEDULE		BILL UNDER PRESENT RATES																BILL UNDER PROPOSED RATES				INCREASE		COSTS IN CENTS/KWH					
Line No.	(1) TYPICAL KW	(2) KWH	GSD								GSD								(10) BASE RATE	(11) FUEL CHARGE	(12) ECCR CHARGE	(13) CAPACITY CHARGE	(14) ECRC CHARGE	(15) GRT CHARGE	(16) TOTAL	(17) DOLLARS (16)/(9)	(18) PERCENT (17)/(9)	(19) PRESENT (9)/(2)*100	(20) PROPOSED (16)/(2)*100
			(3) BASE RATE	(4) FUEL CHARGE	(5) ECCR CHARGE	(6) CAPACITY CHARGE	(7) ECRC CHARGE	(8) GRT CHARGE	(9) TOTAL	(10) BASE RATE	(11) FUEL CHARGE	(12) ECCR CHARGE	(13) CAPACITY CHARGE	(14) ECRC CHARGE	(15) GRT CHARGE	(16) TOTAL													
1	75	10,950	\$ 741.33	\$ 353.36	\$ 29.78	(0.77)	\$ 24.09	\$ 29.43	\$ 1,177.23	\$ 761.81	\$ 347.01	\$ 29.78	(0.77)	\$ 24.09	\$ 29.79	\$ 1,191.71	\$ 14.49	1.2%	10.75	10.88									
2	75	19,163	\$ 1,130.26	\$ 618.37	\$ 87.75	(2.25)	\$ 42.16	\$ 48.11	\$ 1,924.40	\$ 1,167.01	\$ 607.26	\$ 87.75	(2.25)	\$ 42.16	\$ 48.77	\$ 1,950.69	\$ 26.29	1.4%	10.04	10.18									
3	75	32,850	\$ 1,348.66	\$ 1,060.07	\$ 87.75	(2.25)	\$ 72.27	\$ 65.81	\$ 2,632.31	\$ 1,385.41	\$ 1,041.02	\$ 87.75	(2.25)	\$ 72.27	\$ 66.26	\$ 2,650.46	\$ 18.15	0.7%	8.01	8.07									
4	75	49,275	\$ 1,568.73	\$ 1,583.94	\$ 87.75	(2.25)	\$ 108.41	\$ 85.81	\$ 3,432.39	\$ 1,604.49	\$ 1,555.37	\$ 87.75	(2.25)	\$ 108.41	\$ 85.99	\$ 3,439.75	\$ 7.36	0.2%	6.97	6.98									
5																													
6	500	73,000	\$ 4,770.86	\$ 2,355.71	\$ 198.56	(5.11)	\$ 160.60	\$ 191.81	\$ 7,672.43	\$ 4,907.37	\$ 2,313.37	\$ 198.56	(5.11)	\$ 160.60	\$ 194.23	\$ 7,769.01	\$ 96.58	1.3%	10.51	10.64									
7	500	127,750	\$ 7,363.69	\$ 4,122.49	\$ 585.00	(15.00)	\$ 281.05	\$ 316.34	\$ 12,653.57	\$ 7,608.69	\$ 4,048.40	\$ 585.00	(15.00)	\$ 281.05	\$ 320.72	\$ 12,828.86	\$ 175.29	1.4%	9.90	10.04									
8	500	219,000	\$ 8,819.73	\$ 7,067.13	\$ 585.00	(15.00)	\$ 481.80	\$ 434.32	\$ 17,372.98	\$ 9,064.73	\$ 6,940.11	\$ 585.00	(15.00)	\$ 481.80	\$ 437.35	\$ 17,493.99	\$ 121.01	0.7%	7.93	7.99									
9	500	328,500	\$ 10,286.82	\$ 10,559.63	\$ 585.00	(15.00)	\$ 722.70	\$ 567.67	\$ 22,706.83	\$ 10,525.22	\$ 10,369.10	\$ 585.00	(15.00)	\$ 722.70	\$ 568.90	\$ 22,755.92	\$ 49.10	0.2%	6.91	6.93									
10																													
11	2000	292,000	\$ 18,992.72	\$ 9,422.84	\$ 794.24	(20.44)	\$ 642.40	\$ 764.92	\$ 30,596.68	\$ 19,538.76	\$ 9,253.48	\$ 794.24	(20.44)	\$ 642.40	\$ 774.57	\$ 30,983.01	\$ 386.34	1.3%	10.48	10.61									
12	2000	511,000	\$ 29,364.05	\$ 16,489.97	\$ 2,340.00	(60.00)	\$ 1,124.20	\$ 1,263.03	\$ 50,521.25	\$ 30,344.05	\$ 16,193.59	\$ 2,340.00	(60.00)	\$ 1,124.20	\$ 1,280.56	\$ 51,222.40	\$ 701.15	1.4%	9.89	10.02									
13	2000	876,000	\$ 35,188.20	\$ 28,268.52	\$ 2,340.00	(60.00)	\$ 1,927.20	\$ 1,734.97	\$ 69,398.90	\$ 36,168.20	\$ 27,760.44	\$ 2,340.00	(60.00)	\$ 1,927.20	\$ 1,747.07	\$ 69,882.92	\$ 484.02	0.7%	7.92	7.98									
14	2000	1,314,000	\$ 41,056.58	\$ 42,238.53	\$ 2,340.00	(60.00)	\$ 2,890.80	\$ 2,268.35	\$ 90,734.26	\$ 42,010.18	\$ 41,476.41	\$ 2,340.00	(60.00)	\$ 2,890.80	\$ 2,273.26	\$ 90,930.65	\$ 196.39	0.2%	6.91	6.92									

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	PRESENT			PROPOSED		
	GSD	GSDI	GSD OPT.	GSD	GSDI	GSD OPT.
19	CUSTOMER CHARGE	30.24	\$/Bill	30.24	\$/Bill	30.24
20	DEMAND CHARGE	10.59	\$/KW	-	\$/KW	-
21	BILLING	-	\$/KW	3.57	\$/KW	-
22	PEAK	-	\$/KW	7.02	\$/KW	-
23	ENERGY CHARGE	1.596	¢/KWH	-	¢/KWH	6.494
24	ON-PEAK	-	¢/KWH	2.921	¢/KWH	-
25	OFF-PEAK	-	¢/KWH	1.054	¢/KWH	-
26	FUEL CHARGE	3.227	¢/KWH	-	¢/KWH	3.227
27	ON-PEAK	-	¢/KWH	3.411	¢/KWH	-
28	OFF-PEAK	-	¢/KWH	3.149	¢/KWH	-
29	CONSERVATION CHARGE	1.17	\$/KW	0.272	¢/KWH	1.17
30	CAPACITY CHARGE	(0.03)	\$/KW	(0.007)	¢/KWH	(0.03)
31	ENVIRONMENTAL CHARGE	0.220	¢/KWH	0.220	¢/KWH	0.220

Notes:

- A. The kWh for each kW group is based on 20, 35, 60, and 90% load factors (LF).
- 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.
- C. All calculations assume meter and service at secondary voltage.
- 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.
- E. Current base rates are as of January 01, 2019
- F. Current and proposed clause rates are as of April 01, 2019
- G. Proposed fuel rate is projected 2020 rate.

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

Recap Schedules:

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IS - INTERRUPTIBLE SERVICE

RATE SCHEDULE										BILL UNDER PROPOSED RATES								INCREASE		COSTS IN CENTS/KWH		
Line No.	TYPICAL KW	(2) KWH	BILL UNDER PRESENT RATES							(10) TOTAL	BILL UNDER PROPOSED RATES							(18) TOTAL	(19) DOLLARS (16)-(9)	(20) PERCENT (17)/(9)	(21) PRESENT (9)/(2)*100	(22) FINAL (16)/(2)*100
			(3) BASE RATE	(4) CCV CREDIT	(5) FUEL CHARGE	(6) ECCR CHARGE	(7) CAPACITY CHARGE	(8) ECRC CHARGE	(9) GRT CHARGE		(11) BASE RATE	(12) CCV CREDIT	(13) FUEL CHARGE	(14) ECCR CHARGE	(15) CAPACITY CHARGE	(16) ECRC CHARGE	(17) GRT CHARGE					
1	500	127,750	\$ 5,406	\$(1,772.75)	\$ 4,081.61	\$ 465.00	\$(15.00)	\$ 273.39	\$ 216	\$ 8,654	\$ 5,871	\$(1,772.75)	\$ 4,008.80	\$ 465.00	\$(15.00)	\$ 273.39	\$ 226.42	\$ 9,056.62	\$ 402	4.6%	6.77	7.09
2	500	219,000	\$ 7,709	\$(3,039.00)	\$ 6,997.05	\$ 465.00	\$(15.00)	\$ 488.66	\$ 323	\$ 12,908	\$ 8,174	\$(3,039.00)	\$ 6,872.22	\$ 465.00	\$(15.00)	\$ 488.66	\$ 331.42	\$ 13,256.84	\$ 349	2.7%	5.89	6.05
3	500	328,500	\$ 10,472	\$(4,558.50)	\$ 10,455.33	\$ 465.00	\$(15.00)	\$ 702.99	\$ 449	\$ 17,971	\$ 10,937	\$(4,558.50)	\$ 10,268.09	\$ 465.00	\$(15.00)	\$ 702.99	\$ 456.40	\$ 18,255.83	\$ 285	1.6%	5.47	5.56
4																						
5	1,000	255,500	\$ 10,185	\$(3,545.50)	\$ 8,163.23	\$ 930.00	\$(30.00)	\$ 546.77	\$ 417	\$ 16,666	\$ 11,115	\$(3,545.50)	\$ 8,017.59	\$ 930.00	\$(30.00)	\$ 546.77	\$ 436.76	\$ 17,470.26	\$ 804	4.8%	6.52	6.84
6	1,000	438,000	\$ 14,790	\$(6,078.00)	\$ 13,994.10	\$ 930.00	\$(30.00)	\$ 937.32	\$ 629	\$ 25,173	\$ 15,720	\$(6,078.00)	\$ 13,744.44	\$ 930.00	\$(30.00)	\$ 937.32	\$ 846.77	\$ 25,870.70	\$ 698	2.8%	5.75	5.91
7	1,000	657,000	\$ 20,317	\$(9,117.00)	\$ 20,910.67	\$ 930.00	\$(30.00)	\$ 1,405.98	\$ 882	\$ 35,299	\$ 21,247	\$(9,117.00)	\$ 20,536.18	\$ 930.00	\$(30.00)	\$ 1,405.98	\$ 896.72	\$ 35,868.68	\$ 570	1.6%	5.37	5.46
8																						
9	5,000	1,277,500	\$ 48,416	\$(17,727.50)	\$ 40,816.13	\$ 4,650.00	\$(150.00)	\$ 2,733.85	\$ 2,019	\$ 80,757	\$ 53,066	\$(17,727.50)	\$ 40,087.95	\$ 4,650.00	\$(150.00)	\$ 2,733.85	\$ 2,119.48	\$ 84,779.39	\$ 4,022	5.0%	6.32	6.64
10	5,000	2,190,000	\$ 71,443	\$(30,390.00)	\$ 69,970.50	\$ 4,650.00	\$(150.00)	\$ 4,686.60	\$ 3,082	\$ 123,293	\$ 76,093	\$(30,390.00)	\$ 68,722.20	\$ 4,650.00	\$(150.00)	\$ 4,686.60	\$ 3,169.54	\$ 126,781.59	\$ 3,489	2.8%	5.63	5.79
11	5,000	3,285,000	\$ 99,076	\$(45,585.00)	\$ 104,553.34	\$ 4,650.00	\$(150.00)	\$ 7,029.90	\$ 4,348	\$ 173,923	\$ 103,726	\$(45,585.00)	\$ 102,680.89	\$ 4,650.00	\$(150.00)	\$ 7,029.90	\$ 4,419.28	\$ 176,771.51	\$ 2,849	1.6%	5.29	5.38
12																						
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Supporting Schedules: E-13c, E-14 Supplement Recap Schedules:

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## Determination of Fuel Recovery

### Factor for Third SoBRA



TAMPA ELECTRIC COMPANY  
 DETERMINATION OF FUEL RECOVERY FACTOR  
 ESTIMATED FOR THE PERIOD: JANUARY 2020 THROUGH DECEMBER 2020  
 REFLECTING THIRD SoBRA FUEL SAVINGS - \$11.3 MILLION

			NET ENERGY FOR LOAD (%)	FUEL COST (%)
	ON PEAK		29.77	\$23.94
	OFF PEAK		70.23	\$22.10
			100.00	1.0833
	TOTAL		ON PEAK	OFF PEAK
1	Third SoBRA 2020 Fuel Savings	(\$11,300,000)	-0.0581	
2	MWH Sales (Jurisd)	19,482,432		
2a	Effective MWH Sales (Jurisd)	19,453,517		
3	Cost Per KWH Sold (line 1 / line 2)	-0.0580		
4	Jurisdictional Loss Factor	1.00000		
5	Jurisdictional Fuel Factor	na		
6	True-Up	\$0	0.0000	
7	TOTAL (line 1 x line 4)	(\$11,300,000)		
8	Revenue Tax Factor	1.00072		
9	Recovery Factor (line 7 x line 8) / line 2a / 10	-0.0581		
10	GPIF Factor		0.0000	
11	Recovery Factor Including GPIF (line 9 + line 10)	-0.0581	-0.0581	-0.0614
12	Recovery Factor Rounded to the Nearest .001 cents/KWH	-0.058	-0.061	-0.0567

	Jurisdictional Sales (MWH)	
Metering Voltage:	Meter	Secondary
Distribution Secondary	17,244,635	17,244,635
Distribution Primary	1,584,105	1,568,264
Transmission	653,692	640,618
Total	19,482,432	19,453,517

Rate Schedules		Rate Impact of Third SoBRA Fuel Savings of \$11.3 Million *			2019 Approved Rates **			Rates Including Third SoBRA \$11.3 Million Fuel Savings ***		
		Standard	On-Peak	Off-Peak	Standard	On-Peak	Off-Peak	Standard	On-Peak	Off-Peak
RSVP, GS, GST, CS, GSD (Opt), GSD, GSDT, SBF, SBFT	Distribution Secondary	-0.058	-0.061	-0.057	3.227	3.411	3.149	3.169	3.350	3.092
GSD (Opt), GSD, GSDT, SBF, SBFT, IS, IST, SBI	Distribution Primary	-0.057	-0.060	-0.056	3.195	3.377	3.118	3.138	3.317	3.062
GSD (Opt), GSD, GSDT, SBF, SBFT, IS, IST, SBI	Transmission	-0.057	-0.060	-0.056	3.162	3.343	3.086	3.105	3.283	3.030
	RS 1st Tier	-0.058			2.913			2.855		
	RS 2nd Tier	-0.058			3.913			3.855		
	Lighting	-0.057			3.194			3.137		

\* Calculated above. Includes Third SoBRA fuel savings of \$11.3 million.  
 \*\* Current approved rates per mid-course tariff schedules effective April 1, 2019.  
 \*\*\* Current approved rates reduced by \$11.3 million in fuel savings.

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**Redlined Tariffs**

**Reflecting Third SoBRA Base Revenue Increase**



TWENTY-~~FOURTH-FIFTH~~ REVISED SHEET NO. 6.030  
CANCELS TWENTY-~~THIRD-FOURTH~~ 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:

\$15.12

Energy and Demand Charge:

First 1,000 kWh	5. <del>441296</del> ¢ per kWh
All additional kWh	6. <del>441296</del> ¢ 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: January 1, 2019



TWENTY-~~FIFTH-SIXTH~~ REVISED SHEET NO. 6.050  
CANCELS TWENTY-~~FOURTH-FIFTH~~ 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	\$18.14
Un-metered accounts	\$15.12

Energy and Demand Charge:

5.412568¢ 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.~~164169~~¢ 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: January 1, 2019



**TWENTY-~~FOURTH-FIFTH~~ REVISED SHEET NO. 6.080**  
**CANCELS TWENTY-~~THIRD-FOURTH~~ 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 \$ 30.24  
Primary Metering Voltage \$ 131.03  
Subtrans. Metering Voltage \$ 997.80

Secondary Metering Voltage \$ 30.24  
Primary Metering Voltage \$ 131.03  
Subtrans. Metering Voltage \$ 997.80

Demand Charge:

~~\$10.59~~11.08 per kW of billing demand

Demand Charge:

\$0.00 per kW of billing demand

Energy Charge:

1.596¢ per kWh

Energy Charge:

6.~~494~~681¢ 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: N. G. Tower, President

DATE EFFECTIVE: ~~January 1,~~ 2019



**TWENTY-SECOND-THIRD REVISED SHEET NO. 6.081**  
**CANCELS TWENTY-FIRST-SECOND REVISED SHEET**  
**NO. 6.081**

Continued from Sheet No. 6.080

**BILLING DEMAND:** The highest measured 30-minute interval kW demand during the billing period.

**MINIMUM CHARGE:** The Basic Service Charge and any Minimum Charge associated with optional riders.

**TEMPORARY DISCONTINUANCE OF SERVICE:** Where the use of energy is seasonal or intermittent, no adjustments will be made for a temporary discontinuance of service. Any customer prior to resuming service within 12 months after such service was discontinued will be required to pay all charges which would have been billed if service had not been discontinued.

**POWER FACTOR:** Power factor will be calculated for customers with measured demands of 1,000 kW or more in any one billing period out of twelve (12) consecutive billing periods ending with the current billing period. When the average power factor during the month is less than 85%, the monthly bill will be increased 0.202¢ for each kVARh by which the reactive energy numerically exceeds 0.619744 times the billing energy. When the average power factor during the month is greater than 90%, the monthly bill will be decreased 0.101¢ for each kVARh by which the reactive energy is numerically less than 0.484322 times the billing energy.

**METERING VOLTAGE ADJUSTMENT:** When the customer takes energy metered at primary voltage, a discount of 1% will apply to the Demand Charge, Energy Charge, Delivery Voltage Credit, Power Factor billing, and Emergency Relay Power Supply Charge.

When the customer takes energy metered at subtransmission or higher voltage, a discount of 2% will apply to the Demand Charge, Energy Charge, Delivery Voltage Credit, Power Factor billing, and Emergency Relay Power Supply Charge.

**DELIVERY VOLTAGE CREDIT:** When a customer under the standard rate takes service at primary voltage, a discount of ~~8690~~¢ per kW of billing demand will apply. A discount of \$2.~~66~~78 per kW of billing demand will apply when a customer under the standard rate takes service at subtransmission or higher voltage.

Continued to Sheet No. 6.082

ISSUED BY: N. G. Tower, President

DATE EFFECTIVE: ~~January 1, 2019~~



**NINTH-TENTH REVISED SHEET NO. 6.082  
CANCELS EIGHTH-NINTH 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.~~228239~~¢ per kWh will apply. A discount of 0.~~695727~~¢ 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 ~~6871~~¢ per kW of billing demand for customers taking service under the standard rate and 0.~~472180~~¢/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 1, 2019~~



TWENTY-~~SECOND-THIRD~~ REVISED SHEET NO. 6.085  
CANCELS TWENTY-~~FIRST-SECOND~~ 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	\$ 626.90
Subtransmission Metering Voltage	\$2,390.70

**Demand Charge:**

~~\$3,114.04~~ per KW of billing demand

**Energy Charge:**

2.524¢ per KWH

Continued to Sheet No. 6.086

ISSUED BY: N. G. Tower, President

DATE EFFECTIVE: ~~January 1, 2019~~





TWENTY-FIRST-SECOND REVISED SHEET NO. 6.086  
CANCELS ~~TWENTIETH-TWENTY-FIRST~~ REVISED SHEET  
NO. 6.086

Continued from Sheet No. 6.085

**BILLING DEMAND:** The highest measured 30-minute interval KW demand during the month.

**MINIMUM CHARGE:** The Basic Service Charge and any Minimum Charge associated with optional riders.

**POWER FACTOR:** When the average power factor during the month is less than 85%, the monthly bill will be increased 0.202¢ for each kVARh by which the reactive energy numerically exceeds 0.619744 times the billing energy. When the average power factor during the month is greater than 90%, the monthly bill will be decreased 0.101¢ for each kVARh by which the reactive energy is numerically less than 0.484322 times the billing energy.

**METERING VOLTAGE ADJUSTMENT:** When the customer takes energy metered at subtransmission or higher voltage, a discount of 1% of the energy and demand charge will apply to the Demand Charge, Energy Charge, Delivery Voltage Credit, Power Factor billing, and Emergency Relay Power Supply Charge.

**DELIVERY VOLTAGE CREDIT:** When the customer furnishes and installs all subtransmission or higher voltage to utilization voltage substation transformation, a discount of ~~85¢~~\$1.10 per KW of billing demand will apply.

**EMERGENCY RELAY POWER SUPPLY CHARGE:** The monthly charge for emergency relay power supply service shall be \$1.~~22-58~~ per KW of billing demand. 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. 6.087

ISSUED BY: N. G. Tower, President

DATE EFFECTIVE: January 1, 2019



~~THIRTIETH~~ THIRTY-FIRST REVISED SHEET NO. 6.290  
CANCELS ~~TWENTY-NINTH~~ THIRTIETH 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: \$18.14

Energy and Demand Charge: 5.442568¢ 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:** N. G. Tower, President

**DATE EFFECTIVE:** January 1, 2019



~~TWENTY-FOURTH-FIFTH~~ REVISED SHEET NO. 6.320  
CANCELS ~~TWENTY-THIRD-FOURTH~~ 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:  
\$20.16

Energy and Demand Charge:  
~~44.963~~12.521¢ per kWh during peak hours  
~~2.4083~~1.162¢ per kWh during off-peak hours

Continued to Sheet No. 6.321

ISSUED BY: N. G. Tower, President

DATE EFFECTIVE: ~~January 1, 2019~~



~~TWENTIETH-TWENTY-FIRST~~ REVISED SHEET NO. 6.321  
CANCELS ~~NINETEENTH-TWENTIETH~~ REVISED SHEET  
NO. 6.321

Continued from Sheet No. 6.320

**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.)

	<u>April 1 - October 31</u>	<u>November 1 - March 31</u>
<u>Peak Hours:</u> (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.

**MINIMUM CHARGE:** The Basic Service Charge.

**BASIC SERVICE CHARGE CREDIT:** Any customer who makes a one time contribution in aid of construction of \$94.00 (lump-sum meter payment), shall receive a credit of \$2.02 per month. This contribution in aid of construction will be subject to a partial refund if the customer terminates service on this optional time-of-day rate.

**TERMS OF SERVICE:** A customer electing this optional rate shall have the right to transfer to the standard applicable rate at any time without additional charge for such transaction, except that any customer who requests this optional rate for the second time on the same premises will be required to sign a contract to remain on this rate for at least one (1) year.

**EMERGENCY RELAY POWER SUPPLY CHARGE:** The monthly charge for emergency relay power supply service shall be 0.~~164~~169¢ 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.

**FUEL CHARGE:** See Sheet Nos. 6.020 and 6.021.

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

Continued to Sheet No. 6.322

ISSUED BY: N. G. Tower, President

DATE EFFECTIVE: ~~January 1, 2019~~



~~TWENTY-FIFTH~~ ~~SIXTH~~ REVISED SHEET NO. 6.330  
CANCELS ~~TWENTY-FOURTH~~ ~~FIFTH~~ 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	\$ 30.24
Primary Metering Voltage	\$ 131.03
Subtransmission Metering Voltage	\$ 997.80

Demand Charge:

\$~~3.57~~-~~73~~ per kW of billing demand, plus  
\$~~7.02~~-~~34~~ per kW of peak billing demand

Energy Charge:

2.921¢ per kWh during peak hours  
1.054¢ per kWh during off-peak hours

Continued to Sheet No. 6.331

ISSUED BY: N. G. Tower, President

DATE EFFECTIVE: ~~January 1, 2019~~



**TWENTY-FIRST-SECOND REVISED SHEET NO. 6.332**  
**CANCELS ~~TWENTY-FIRST-TWENTIETH~~ REVISED SHEET**  
**NO. 6.332**

Continued from Sheet No. 6.331

**POWER FACTOR:** Power factor will be calculated for customers with measured demands of 1,000 kW in any billing period out of twelve (12) consecutive billing periods ending with the current billing period. When the average power factor during the month is less than 85%, the monthly bill will be increased 0.202¢ for each kVARh by which the reactive energy numerically exceeds 0.619744 times the billing energy. When the average power factor during the month is greater than 90%, the monthly bill will be decreased 0.101¢ for each kVARh by which the reactive energy is numerically less than 0.484322 times the billing energy.

**METERING VOLTAGE ADJUSTMENT:** When the customer takes energy metered at primary voltage, a discount of 1% will apply to the Demand Charge, Energy Charge, Delivery Voltage Credit, Power Factor billing, and Emergency Relay Power Supply Charge.

When the customer takes energy metered at subtransmission or higher voltage, a discount of 2% will apply to the Demand Charge, Energy Charge, Delivery Voltage Credit, Power Factor billing, and Emergency Relay Power Supply Charge.

**DELIVERY VOLTAGE CREDIT:** When the customer takes service at primary voltage a discount of ~~8690~~¢ per kW of billing demand will apply. When the customer takes service at subtransmission or higher voltage, a discount of \$2.~~66-78~~ per kW of billing demand will apply.

**EMERGENCY RELAY POWER SUPPLY CHARGE:** The monthly charge for emergency relay power supply service shall be ~~6871~~¢ per kW of billing demand. 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 1, 2019



TWENTY-~~SECOND~~-~~THIRD~~ REVISED SHEET NO. 6.340  
CANCELS TWENTY-~~FIRST~~-~~SECOND~~ 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	\$ 626.90
Subtransmission Metering Voltage	\$2,390.70

**Demand Charge:**

~~\$3,114.04~~ per KW of billing demand

**Energy Charge:**

2.524¢ per KWH

Continued to Sheet No. 6.345

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

**DATE EFFECTIVE:** ~~January 1, 2019~~



**TWENTY-~~SEVENTH~~EIGHTH REVISED SHEET NO. 6.350**  
**CANCELS TWENTY-~~SIXTH~~SEVENTH REVISED SHEET**  
**NO. 6.350**

Continued from Sheet No. 6.345

**METERING VOLTAGE ADJUSTMENT:** When the customer takes energy metered at subtransmission or higher voltage, a discount of 1% of the energy and demand charge will apply to the Demand Charge, Energy Charge, Delivery Voltage Credit, Power Factor billing, and Emergency Relay Power Supply Charge.

**DELIVERY VOLTAGE CREDIT:** When the customer furnishes and installs all subtransmission or higher voltage to utilization voltage substation transformation, a discount of ~~85¢~~\$1.10 per KW of billing demand will apply.

**EMERGENCY RELAY POWER SUPPLY CHARGE:** The monthly charge for emergency relay power supply service shall be ~~\$1.22-58~~ per KW of billing demand. 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. 6.025.

ISSUED BY: N. G. Tower, President

DATE EFFECTIVE: ~~January 1, 2019~~





~~TENTH-ELEVENTH~~ REVISED SHEET NO. 6.565  
CANCELS ~~NINTH-TENTH~~ REVISED SHEET NO. 6.565

Continued from Sheet No. 6.560

**MONTHLY RATES:**

Basic Service Charge: \$15.12

Energy and Demand Charges: 5.455610¢ 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<sub>1</sub> (Low Cost Hours), P<sub>2</sub> (Moderate Cost Hours) and P<sub>3</sub> (High Cost Hours) are as follows:

<u>May through October</u>	<u>P<sub>1</sub></u>	<u>P<sub>2</sub></u>	<u>P<sub>3</sub></u>
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.	-----
<u>November through April</u>	<u>P<sub>1</sub></u>	<u>P<sub>2</sub></u>	<u>P<sub>3</sub></u>
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<sub>4</sub> (Critical Cost Hours) shall be determined at the sole discretion of the Company. Level P<sub>4</sub> hours shall not exceed 134 hours per year.

Continued to Sheet No. 6.570

ISSUED BY: N. G. Tower, President

DATE EFFECTIVE: January 1, 2019



~~FIFTEENTH-SIXTEENTH~~ REVISED SHEET NO. 6.601  
CANCELS ~~FOURTEENTH-FIFTEENTH~~ REVISED SHEET  
NO. 6.601

Continued from Sheet No. 6.600

**CHARGES FOR SUPPLEMENTAL SERVICE:**

Demand Charge:

~~\$40.59~~11.08 per kW-Month of Supplemental Billing Demand (Supplemental Billing Demand Charge)

Energy Charge:

1.596¢ 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.)

	<u>April 1 - October 31</u>	<u>November 1 - March 31</u>
<u>Peak Hours:</u> (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: ~~January 1, 2019~~



**SEVENTIETH-EIGHTEENTH REVISED SHEET NO. 6.603**  
**CANCELS ~~SIXTEENTH-SEVENTEENTH~~ REVISED SHEET**  
**NO. 6.603**

Continued from Sheet No. 6.602

**METERING VOLTAGE ADJUSTMENT:** When the customer takes energy metered at primary voltage, a discount of 1% will apply to the Demand Charge, Energy Charge, Delivery Voltage Credit, Power Factor billing, and Emergency Relay Power Supply Charge.

When the customer takes energy metered at subtransmission or higher voltage, a discount of 2% will apply to the Demand Charge, Energy Charge, Delivery Voltage Credit, Power Factor billing, and Emergency Relay Power Supply Charge.

**DELIVERY VOLTAGE CREDIT:** When the customer takes service at primary voltage, a discount of ~~8690~~¢ per kW of Supplemental Demand and 63¢ per kW of Standby Demand will apply.

When the customer takes service at subtransmission or higher voltage, a discount of \$~~2.66~~-78 per kW of Supplemental Demand and \$1.97 per kW of Standby Demand will apply.

**EMERGENCY RELAY POWER SUPPLY CHARGE:** The monthly charge for emergency relay power supply service shall be ~~6871~~¢ per kW of Supplemental Demand and Standby Demand. 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. Note: Standby fuel charges shall be based on the time of use (i.e., peak and off-peak) fuel rates for Rate Schedule SBF. Supplemental fuel charges shall be based on the standard fuel rate for Rate Schedule SBF.

**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 1, 2019~~



~~TWELFTH-THIRTEENTH~~ REVISED SHEET NO. 6.606  
CANCELS ~~ELEVENTH-TWELFTH~~ REVISED SHEET NO.  
6.606

Continued from Sheet No. 6.605

**CHARGES FOR SUPPLEMENTAL SERVICE**

Demand Charge:

~~\$3.573.73~~ per kW-Month of Supplemental Demand (Supplemental Billing Demand Charge), plus

~~\$7.0234~~ per kW-Month of Supplemental Peak Demand (Supplemental Peak Billing Demand Charge)

Energy Charge:

2.921¢ per Supplemental kWh during peak hours

1.054¢ 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.)

	<u>April 1 - October 31</u>	<u>November 1 - March 31</u>
<u>Peak Hours:</u>	12:00 Noon - 9:00 PM	6:00 AM - 10:00 AM
(Monday-Friday)		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: N. G. Tower, President

DATE EFFECTIVE: ~~January 1, 2019~~



**FOURTEENTH FIFTEENTH REVISED SHEET NO. 6.608  
CANCELS THIRTEENTH FOURTEENTH REVISED SHEET  
NO. 6.608**

Continued from Sheet No. 6.607

**TERM OF SERVICE:** Any customer receiving service under this schedule will be required to give the Company written notice at least 60 months prior to transferring to a firm non-standby schedule. Such notice shall be irrevocable unless the Company and the customer should mutually agree to void the notice.

**TEMPORARY DISCONTINUANCE OF SERVICE:** Where the use of energy is seasonal or intermittent, no adjustments will be made for a temporary discontinuance of service. Any customer prior to resuming service within 12 months after such service was discontinued will be required to pay all charges which would have been billed if service had not been discontinued.

**POWER FACTOR:** When the average power factor during the month is less than 85%, the monthly bill will be increased 0.202¢ for each kVARh by which the reactive energy numerically exceeds 0.619744 times the billing energy. When the average power factor during the month is greater than 90%, the monthly bill will be decreased 0.101¢ for each kVARh by which the reactive energy is numerically less than 0.484322 times the billing energy.

**METERING VOLTAGE ADJUSTMENT:** When the customer takes energy metered at primary voltage, a discount of 1% will apply to the Demand Charges, Energy Charges, Delivery Voltage Credit, Power Factor billing, and Emergency Relay Power Supply Charge.

When the customer takes energy metered at subtransmission or higher voltage, a discount of 2% will apply to the Demand Charges, Energy Charges, Delivery Voltage Credit, Power Factor billing, and Emergency Relay Power Supply Charge.

**DELIVERY VOLTAGE CREDIT:** When the customer takes service at primary voltage, a discount of ~~8690~~¢ per kW of Supplemental Demand and 63¢ per kW of Standby Demand will apply.

When the customer takes service at subtransmission or higher voltage, a discount of \$~~2.66-78~~ per kW of Supplemental Demand and \$1.97 per kW of Standby Demand will apply.

**EMERGENCY RELAY POWER SUPPLY CHARGE:** The monthly charge for emergency relay power supply service shall be ~~6871~~¢ per kW of Supplemental Demand and Standby Demand. 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. 6.609

ISSUED BY: N. G. Tower, President

DATE EFFECTIVE: ~~January 1, 2019~~



~~TENTH-ELEVENTH~~ REVISED SHEET NO. 6.700  
CANCELS ~~NINTH-TENTH~~ 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	\$652.10
Subtransmission Metering Voltage	\$2,415.90

**Demand Charge:**

~~\$3,114.04~~ per KW-Month of Supplemental Demand (Supplemental Demand Charge)  
\$1.46 per KW-Month of Standby Demand (Local Facilities Reservation Charge)

plus the greater of:

\$1.21 per KW-Month of Standby Demand (Power Supply Reservation Charge); or  
\$0.48 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:** ~~January 1, 2019~~



**EIGHTH-NINTH** REVISED SHEET NO. 6.715  
CANCELS **SEVENTH-EIGHTH** REVISED SHEET NO. 6.715

Continued from Sheet No. 6.710

**POWER FACTOR:** When the average power factor during the month is less than 85%, the monthly bill will be increased 0.202¢ for each kVARh by which the reactive energy numerically exceeds 0.619744 times the billing energy. When the average power factor during the month is greater than 90%, the monthly bill will be decreased 0.101¢ for each kVARh by which the reactive energy is numerically less than 0.484322 times the billing energy.

**METERING VOLTAGE ADJUSTMENT:** When the customer takes energy metered at subtransmission or higher voltage, a discount of 1% will apply to the standby and supplemental demand charges, energy charges, Delivery Voltage Credit, Power Factor billing, and Emergency Relay Power Supply Charges.

**DELIVERY VOLTAGE CREDIT:** When the customer furnishes and installs all subtransmission or higher voltage to utilization voltage substation transformation, a discount of ~~85¢~~**\$1.10** per KW of Supplemental Demand and 34¢ per KW of Standby Demand will apply.

**EMERGENCY RELAY POWER SUPPLY CHARGE:** The monthly charge for emergency relay power supply service shall be \$1.~~22-58~~ per KW of Supplemental Demand and Standby Demand. This charge is in addition to the compensation the customer must make to the Company as a contribution-in-aid of construction.

**FUEL CHARGE:** Supplemental energy may be billed at either standard or time-of-day fuel rates at the option of the customer. 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 1, 2019~~



**EIGHTH-NINTH** REVISED SHEET NO. 6.805  
**CANCELS SEVENTH-EIGHTH** REVISED SHEET NO. 6.805

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 (\$)			
Dusk to Dawn	Timed Svc.		Initial Lumens <sup>(2)</sup>	Lamp Wattage <sup>(3)</sup>	kWh		Fixture	Maint.	Base Energy <sup>(4)</sup>	
					Dusk to Dawn	Timed Svc.			Dusk to Dawn	Timed Svc.
800	860	Cobra <sup>(1)</sup>	4,000	50	20	10	3.16	2.48	0.50	0.25
802	862	Cobra/Nema <sup>(1)</sup>	6,300	70	29	14	3.20	2.11	0.73	0.35
803	863	Cobra/Nema <sup>(1)</sup>	9,500	100	44	22	3.63	2.33	<del>1.401</del> 1	0.55
804	864	Cobra <sup>(1)</sup>	16,000	150	66	33	4.18	2.02	1.66	0.83
805	865	Cobra <sup>(1)</sup>	28,500	250	105	52	4.87	2.60	<del>2.636</del> 5	<del>1.303</del> 1
806	866	Cobra <sup>(1)</sup>	50,000	400	163	81	5.09	2.99	<del>4.091</del> 1	<del>2.030</del> 4
468	454	Flood <sup>(1)</sup>	28,500	250	105	52	5.37	2.60	<del>2.636</del> 5	<del>1.303</del> 1
478	484	Flood <sup>(1)</sup>	50,000	400	163	81	5.71	3.00	<del>4.091</del> 1	<del>2.030</del> 4
809	869	Mongoose <sup>(1)</sup>	50,000	400	163	81	6.50	3.02	<del>4.091</del> 1	<del>2.030</del> 4
509	508	Post Top (PT) <sup>(1)</sup>	4,000	50	20	10	3.98	2.48	0.50	0.25
570	530	Classic PT <sup>(1)</sup>	9,500	100	44	22	11.85	1.89	<del>1.401</del> 1	0.55
810	870	Coach PT <sup>(1)</sup>	6,300	70	29	14	4.71	2.11	0.73	0.35
572	532	Colonial PT <sup>(1)</sup>	9,500	100	44	22	11.75	1.89	<del>1.401</del> 1	0.55
573	533	Salem PT <sup>(1)</sup>	9,500	100	44	22	9.03	1.89	<del>1.401</del> 1	0.55
550	534	Shoobox <sup>(1)</sup>	9,500	100	44	22	8.01	1.89	<del>1.401</del> 1	0.55
566	536	Shoobox <sup>(1)</sup>	28,500	250	105	52	8.69	3.18	<del>2.636</del> 5	<del>1.303</del> 1
552	538	Shoobox <sup>(1)</sup>	50,000	400	163	81	9.52	2.44	<del>4.091</del> 1	<del>2.030</del> 4

(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 ~~2.509522¢~~ per kWh for each fixture.

Continued to Sheet No. 6.806

ISSUED BY: N. G. Tower, President

DATE EFFECTIVE: ~~January 1, 2019~~





~~SIXTH SEVENTH~~ REVISED SHEET NO. 6.806  
CANCELS ~~FIFTH SIXTH~~ REVISED 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				Charges per Unit (\$)			
Dusk to Dawn	Timed Svc.		Initial Lumens <sup>(2)</sup>	Lamp Wattage <sup>(3)</sup>	kWh		Fixture	Maint.	Base Energy <sup>(4)</sup>	
					Dusk to Dawn	Timed Svc.			Dusk to Dawn	Timed Svc.
704	724	Cobra <sup>(1)</sup>	29,700	350	138	69	7.53	4.99	<del>3.464</del> 8 <del>3.004</del>	<del>1.737</del> 4 <del>1.089</del>
520	522	Cobra <sup>(1)</sup>	32,000	400	159	79	6.03	4.01	<del>01</del> 3.464	<del>1.737</del> 9 <del>1.089</del>
705	725	Flood <sup>(1)</sup>	29,700	350	138	69	8.55	5.04	<del>8</del> <del>3.004</del>	<del>4</del> <del>1.089</del>
556	541	Flood <sup>(1)</sup>	32,000	400	159	79	8.36	4.02	<del>01</del> 9.646	<del>9</del> 4.798
558	578	Flood <sup>(1)</sup>	107,800	1,000	383	191	10.50	8.17	<del>6</del> 1.686	<del>2</del> 0.858
701	721	General PT <sup>(1)</sup>	12,000	150	67	34	10.60	3.92	<del>9</del> 1.868	<del>6</del> 0.93
574	548	General PT <sup>(1)</sup>	14,400	175	74	37	10.89	3.73	<del>7</del> 1.686	<del>0.858</del> 6
700	720	Salem PT <sup>(1)</sup>	12,000	150	67	34	9.33	3.92	<del>9</del> 1.868	<del>6</del> 0.93
575	568	Salem PT <sup>(1)</sup>	14,400	175	74	37	9.38	3.74	<del>7</del> 1.686	<del>0.858</del> 6
702	722	Shoebox <sup>(1)</sup>	12,000	150	67	34	7.22	3.92	<del>9</del> 1.868	<del>6</del> 0.93
564	549	Shoebox <sup>(1)</sup>	12,800	175	74	37	7.95	3.70	<del>7</del> 3.464	<del>0.93</del> 1.737
703	723	Shoebox <sup>(1)</sup>	29,700	350	138	69	9.55	4.93	<del>8</del> <del>3.004</del>	<del>4</del> <del>1.089</del>
554	540	Shoebox <sup>(1)</sup>	32,000	400	159	79	10.02	3.97	<del>01</del> 9.646	<del>9</del> 4.798
576	577	Shoebox <sup>(1)</sup>	107,800	1,000	383	191	16.50	8.17	<del>6</del> 6	<del>2</del> 2

(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 ~~2.509522~~¢ per kWh for each fixture.

Continued to Sheet No. 6.808

ISSUED BY: N. G. Tower, President

DATE EFFECTIVE: ~~January 1, 2019~~



**SEVENTH EIGHTH REVISED SHEET NO. 6.808**  
**CANCELS SIXTH SEVENTH REVISED 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 (\$)			
Dusk to Dawn	Timed Svc.		Initial Lumens <sup>(2)</sup>	Lamp Wattage <sup>(3)</sup>	kWh <sup>(1)</sup>		Fixture	Maintenance	Base Energy <sup>(4)</sup>	
					Dusk to Dawn	Timed Svc.			Dusk to Dawn	Timed Svc.
828	848	Roadway <sup>(1)</sup>	5,155	56	20	10	7.27	1.74	0.50	0.25
820	840	Roadway <sup>(1)</sup>	7,577	103	36	18	11.15	1.19	<del>0.99</del> 1	0.45
821	841	Roadway <sup>(1)</sup>	8,300	106	37	19	11.15	1.20	0.93	0.48
829	849	Roadway <sup>(1)</sup>	15,285	157	55	27	11.10	2.26	<del>1.38</del> 39	0.68
822	842	Roadway <sup>(1)</sup>	15,300	196	69	34	14.58	1.26	<del>1.73</del> 74	<del>6</del> 0.909
823	843	Roadway <sup>(1)</sup>	14,831	206	72	36	16.80	1.38	<del>1.84</del> 82	<del>1</del> 0.909
835	855	Post Top <sup>(1)</sup>	5,176	60	21	11	16.53	2.28	0.53	0.28
824	844	Post Top <sup>(1)</sup>	3,974	67	24	12	19.67	1.54	<del>0.60</del> 61	0.30
825	845	Post Top <sup>(1)</sup>	6,030	99	35	17	20.51	1.56	0.88	0.43
836	856	Post Top <sup>(1)</sup>	7,360	100	35	18	16.70	2.28	0.88	0.45
830	850	Area-Lighter <sup>(1)</sup>	14,100	152	53	27	14.85	2.51	<del>1.33</del> 34	0.68
826	846	Area-Lighter <sup>(1)</sup>	13,620	202	71	35	19.10	1.41	<del>1.78</del> 79	0.88
827	847	Area-Lighter <sup>(1)</sup>	21,197	309	108	54	20.60	1.55	<del>2.74</del> 72	<del>6</del> 1.050
831	851	Flood <sup>(1)</sup>	22,122	238	83	42	15.90	3.45	<del>2.08</del> 09	<del>6</del> 1.695
832	852	Flood <sup>(1)</sup>	32,087	359	126	63	19.16	4.10	<del>3.46</del> 18	<del>9</del> 1.434
833	853	Mongoose <sup>(1)</sup>	24,140	245	86	43	14.71	3.04	<del>2.46</del> 17	<del>1.08</del> 1.434
834	854	Mongoose <sup>(1)</sup>	32,093	328	115	57	16.31	3.60	<del>2.89</del> 90	<del>4</del>

<sup>(1)</sup> Closed to new business  
<sup>(2)</sup> Average  
<sup>(3)</sup> Average wattage. Actual wattage may vary by up to +/- 5 watts.  
<sup>(4)</sup> The Base Energy charges are calculated by multiplying the kWh times the lighting base energy rate of ~~2.509522~~¢ per kWh for each fixture.

Continued to Sheet No. 6.810

ISSUED BY: N. G. Tower, President

DATE EFFECTIVE: ~~January 1, 2019~~



**SECOND-THIRD** REVISED SHEET NO. 6.809  
CANCELS **FIRST-SECOND** REVISED SHEET NO. 6.809

Continued from Sheet No. 6.808

**MONTHLY RATE:**

LED Fixture, Maintenance, and Base Energy Charges:

Rate Code		Description	Size				Charges per Unit (\$)			
Dusk to Dawn	Timed Svc.		Initial Lumens <sup>(1)</sup>	Lamp Wattage <sup>(2)</sup>	kWh <sup>(1)</sup>		Fixture	Maint.	Base Energy <sup>(3)</sup>	
					Dusk to Dawn	Timed Svc.			Dusk to Dawn	Timed Svc.
912	981	Roadway	2,600	27	9	5	4.83	1.74	0.23	0.13
914		Roadway	5,392	47	16		5.97	1.74	0.40	
921		Roadway/Area	8,500	88	31		8.97	1.74	0.78	
926	982	Roadway	12,414	105	37	18	6.83	1.19	0.93	0.45
932		Roadway/Area	15,742	133	47		14.15	1.38	<del>1.481</del> 0.9	
935		Area-Lighter	16,113	143	50		11.74	1.41	<del>1.252</del> 0.6	
937		Roadway	16,251	145	51		8.61	2.26	<del>1.282</del> 0.9	
941	983	Roadway	22,233	182	64	32	11.81	2.51	1.61	0.8081
945		Area-Lighter	29,533	247	86		16.07	2.51	<del>2.461</del> 0.7	
947	984	Area-Lighter	33,600	330	116	58	20.13	1.55	<del>2.949</del> 0.3	1.46
951	985	Flood	23,067	199	70	35	11.12	3.45	<del>1.767</del> 0.7	0.88
953	986	Flood	33,113	255	89	45	21.48	4.10	<del>2.232</del> 0.4	1.13
956	987	Mongoose	23,563	225	79	39	11.78	3.04	<del>1.989</del> 0.9	0.98
958		Mongoose	34,937	333	117		17.84	3.60	<del>2.949</del> 0.5	
965		Granville Post Top (PT)	3,024	26	9		5.80	2.28	0.23	
967	988	Granville PT	4,990	39	14	7	13.35	2.28	0.35	0.18
968	989	Granville PT Enh <sup>(4)</sup>	4,476	39	14	7	15.35	2.28	0.35	0.18
971		Salem PT	5,240	55	19		10.95	1.54	0.48	
972		Granville PT	7,076	60	21		14.62	2.28	0.53	
973		Granville PT Enh <sup>(4)</sup>	6,347	60	21		16.62	2.28	0.53	
975	990	Salem PT	7,188	76	27	13	13.17	1.54	0.68	0.33

<sup>(1)</sup> Average  
<sup>(2)</sup> Average wattage. Actual wattage may vary by up to +/- 10 %.  
<sup>(3)</sup> The Base Energy charges are calculated by multiplying the kWh times the lighting base energy rate of 2.509522¢ per kWh for each fixture.  
<sup>(4)</sup> Enhanced Post Top. Customizable decorative options

Continued to Sheet No. 6.810

ISSUED BY: N. G. Tower, President

DATE EFFECTIVE: January 1, 2019



**SIXTH SEVENTH REVISED SHEET NO. 6.815  
CANCELS FIFTH SIXTH 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 ~~2.509522~~¢ per kWh of metered usage, plus a Basic Service Charge of \$10.57 per month and the applicable additional charges as specified on Sheet Nos. 6.020 and 6.021.

Continued to Sheet No. 6.820

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

**DATE EFFECTIVE:** January 1, 2019

TAMPA ELECTRIC COMPANY  
DOCKET NO. 2019\_\_\_\_\_-EI  
EXHIBIT NO. \_\_\_\_ (WRA-1)  
WITNESS: ASHBURN  
DOCUMENT NO. 7

**Clean Tariffs**

**Reflecting Third SoBRA Base Revenue Increase**



**TWENTY-FIFTH REVISED SHEET NO. 6.030  
CANCELS TWENTY-FOURTH 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:  
\$15.12

Energy and Demand Charge:  
First 1,000 kWh                    5.296¢ per kWh  
All additional kWh                6.296¢ 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:**



**TWENTY-SIXTH REVISED SHEET NO. 6.050  
CANCELS TWENTY-FIFTH 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	\$18.14
Un-metered accounts	\$15.12

**Energy and Demand Charge:**

5.568¢ per kWh

**MINIMUM CHARGE:** The Basic Service Charge.

**EMERGENCY RELAY POWER SUPPLY CHARGE:** The monthly charge for emergency relay power supply service shall be 0.169¢ 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:**



TWENTY-FIFTH REVISED SHEET NO. 6.080  
CANCELS TWENTY-FOURTH 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:**

<u>STANDARD</u>		<u>OPTIONAL</u>	
<u>Basic Service Charge:</u>		<u>Basic Service Charge:</u>	
Secondary Metering Voltage	\$ 30.24	Secondary Metering Voltage	\$ 30.24
Primary Metering Voltage	\$ 131.03	Primary Metering Voltage	\$ 131.03
Subtrans. Metering Voltage	\$ 997.80	Subtrans. Metering Voltage	\$ 997.80
<u>Demand Charge:</u>		<u>Demand Charge:</u>	
\$11.08 per kW of billing demand		\$0.00 per kW of billing demand	
<u>Energy Charge:</u>		<u>Energy Charge:</u>	
1.596¢ per kWh		6.681¢ 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: N. G. Tower, President

DATE EFFECTIVE:





TWENTY-THIRD REVISED SHEET NO. 6.081  
CANCELS TWENTY-SECOND REVISED SHEET NO. 6.081

Continued from Sheet No. 6.080

**BILLING DEMAND:** The highest measured 30-minute interval kW demand during the billing period.

**MINIMUM CHARGE:** The Basic Service Charge and any Minimum Charge associated with optional riders.

**TEMPORARY DISCONTINUANCE OF SERVICE:** Where the use of energy is seasonal or intermittent, no adjustments will be made for a temporary discontinuance of service. Any customer prior to resuming service within 12 months after such service was discontinued will be required to pay all charges which would have been billed if service had not been discontinued.

**POWER FACTOR:** Power factor will be calculated for customers with measured demands of 1,000 kW or more in any one billing period out of twelve (12) consecutive billing periods ending with the current billing period. When the average power factor during the month is less than 85%, the monthly bill will be increased 0.202¢ for each kVARh by which the reactive energy numerically exceeds 0.619744 times the billing energy. When the average power factor during the month is greater than 90%, the monthly bill will be decreased 0.101¢ for each kVARh by which the reactive energy is numerically less than 0.484322 times the billing energy.

**METERING VOLTAGE ADJUSTMENT:** When the customer takes energy metered at primary voltage, a discount of 1% will apply to the Demand Charge, Energy Charge, Delivery Voltage Credit, Power Factor billing, and Emergency Relay Power Supply Charge.

When the customer takes energy metered at subtransmission or higher voltage, a discount of 2% will apply to the Demand Charge, Energy Charge, Delivery Voltage Credit, Power Factor billing, and Emergency Relay Power Supply Charge.

**DELIVERY VOLTAGE CREDIT:** When a customer under the standard rate takes service at primary voltage, a discount of 90¢ per kW of billing demand will apply. A discount of \$2.78 per kW of billing demand will apply when a customer under the standard rate takes service at subtransmission or higher voltage.

Continued to Sheet No. 6.082

ISSUED BY: N. G. Tower, President

DATE EFFECTIVE:



TENTH REVISED SHEET NO. 6.082  
CANCELS NINTH 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 0.239¢ per kWh will apply. A discount of 0.727¢ 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 71¢ per kW of billing demand for customers taking service under the standard rate and 0.180¢/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:



TWENTY-THIRD REVISED SHEET NO. 6.085  
CANCELS TWENTY-SECOND 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	\$ 626.90
Subtransmission Metering Voltage	\$2,390.70

**Demand Charge:**

\$4.04 per KW of billing demand

**Energy Charge:**

2.524¢ per KWH

Continued to Sheet No. 6.086

ISSUED BY: N. G. Tower, President

DATE EFFECTIVE:



TWENTY-SECOND REVISED SHEET NO. 6.086  
CANCELS TWENTY-FIRST REVISED SHEET NO. 6.086

Continued from Sheet No. 6.085

**BILLING DEMAND:** The highest measured 30-minute interval KW demand during the month.

**MINIMUM CHARGE:** The Basic Service Charge and any Minimum Charge associated with optional riders.

**POWER FACTOR:** When the average power factor during the month is less than 85%, the monthly bill will be increased 0.202¢ for each kVARh by which the reactive energy numerically exceeds 0.619744 times the billing energy. When the average power factor during the month is greater than 90%, the monthly bill will be decreased 0.101¢ for each kVARh by which the reactive energy is numerically less than 0.484322 times the billing energy.

**METERING VOLTAGE ADJUSTMENT:** When the customer takes energy metered at subtransmission or higher voltage, a discount of 1% of the energy and demand charge will apply to the Demand Charge, Energy Charge, Delivery Voltage Credit, Power Factor billing, and Emergency Relay Power Supply Charge.

**DELIVERY VOLTAGE CREDIT:** When the customer furnishes and installs all subtransmission or higher voltage to utilization voltage substation transformation, a discount of \$1.10 per KW of billing demand will apply.

**EMERGENCY RELAY POWER SUPPLY CHARGE:** The monthly charge for emergency relay power supply service shall be \$1.58 per KW of billing demand. 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. 6.087

ISSUED BY: N. G. Tower, President

DATE EFFECTIVE:



THIRTY-FIRST REVISED SHEET NO. 6.290  
CANCELS THIRTIETH 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: \$18.14

Energy and Demand Charge: 5.568¢ 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: N. G. Tower, President

DATE EFFECTIVE:



TWENTY-FIFTH REVISED SHEET NO. 6.320  
CANCELS TWENTY-FOURTH 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:

\$20.16

Energy and Demand Charge:

12.521¢ per kWh during peak hours

3.162¢ per kWh during off-peak hours

Continued to Sheet No. 6.321

ISSUED BY: N. G. Tower, President

DATE EFFECTIVE:



TWENTY-FIRST REVISED SHEET NO. 6.321  
CANCELS TWENTIETH REVISED SHEET NO. 6.321

Continued from Sheet No. 6.320

**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.)

	<u>April 1 - October 31</u>	<u>November 1 - March 31</u>
<u>Peak Hours:</u> (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.

**MINIMUM CHARGE:** The Basic Service Charge.

**BASIC SERVICE CHARGE CREDIT:** Any customer who makes a one time contribution in aid of construction of \$94.00 (lump-sum meter payment), shall receive a credit of \$2.02 per month. This contribution in aid of construction will be subject to a partial refund if the customer terminates service on this optional time-of-day rate.

**TERMS OF SERVICE:** A customer electing this optional rate shall have the right to transfer to the standard applicable rate at any time without additional charge for such transaction, except that any customer who requests this optional rate for the second time on the same premises will be required to sign a contract to remain on this rate for at least one (1) year.

**EMERGENCY RELAY POWER SUPPLY CHARGE:** The monthly charge for emergency relay power supply service shall be 0.169¢ 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.

**FUEL CHARGE:** See Sheet Nos. 6.020 and 6.021.

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

Continued to Sheet No. 6.322

ISSUED BY: N. G. Tower, President

DATE EFFECTIVE:



TWENTY-SIXTH REVISED SHEET NO. 6.330  
CANCELS TWENTY-FIFTH 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	\$ 30.24
Primary Metering Voltage	\$ 131.03
Subtransmission Metering Voltage	\$ 997.80

Demand Charge:

\$3.73 per kW of billing demand, plus  
\$7.34 per kW of peak billing demand

Energy Charge:

2.921¢ per kWh during peak hours  
1.054¢ per kWh during off-peak hours

Continued to Sheet No. 6.331

ISSUED BY: N. G. Tower, President

DATE EFFECTIVE:





**TWENTY-SECOND REVISED SHEET NO. 6.332  
CANCELS TWENTY-FIRST REVISED SHEET NO. 6.332**

Continued from Sheet No. 6.331

**POWER FACTOR:** Power factor will be calculated for customers with measured demands of 1,000 kW in any billing period out of twelve (12) consecutive billing periods ending with the current billing period. When the average power factor during the month is less than 85%, the monthly bill will be increased 0.202¢ for each kVARh by which the reactive energy numerically exceeds 0.619744 times the billing energy. When the average power factor during the month is greater than 90%, the monthly bill will be decreased 0.101¢ for each kVARh by which the reactive energy is numerically less than 0.484322 times the billing energy.

**METERING VOLTAGE ADJUSTMENT:** When the customer takes energy metered at primary voltage, a discount of 1% will apply to the Demand Charge, Energy Charge, Delivery Voltage Credit, Power Factor billing, and Emergency Relay Power Supply Charge.

When the customer takes energy metered at subtransmission or higher voltage, a discount of 2% will apply to the Demand Charge, Energy Charge, Delivery Voltage Credit, Power Factor billing, and Emergency Relay Power Supply Charge.

**DELIVERY VOLTAGE CREDIT:** When the customer takes service at primary voltage a discount of 90¢ per kW of billing demand will apply. When the customer takes service at subtransmission or higher voltage, a discount of \$2.78 per kW of billing demand will apply.

**EMERGENCY RELAY POWER SUPPLY CHARGE:** The monthly charge for emergency relay power supply service shall be 71¢ per kW of billing demand. 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:**



TWENTY-THIRD REVISED SHEET NO. 6.340  
CANCELS TWENTY-SECOND 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	\$ 626.90
Subtransmission Metering Voltage	\$2,390.70

**Demand Charge:**

\$4.04 per KW of billing demand

**Energy Charge:**

2.524¢ per KWH

Continued to Sheet No. 6.345

ISSUED BY: N. G. Tower, President

DATE EFFECTIVE:



TWENTY-EIGHTH REVISED SHEET NO. 6.350  
CANCELS TWENTH-SEVENTH REVISED SHEET NO. 6.350

Continued from Sheet No. 6.345

**METERING VOLTAGE ADJUSTMENT:** When the customer takes energy metered at subtransmission or higher voltage, a discount of 1% of the energy and demand charge will apply to the Demand Charge, Energy Charge, Delivery Voltage Credit, Power Factor billing, and Emergency Relay Power Supply Charge.

**DELIVERY VOLTAGE CREDIT:** When the customer furnishes and installs all subtransmission or higher voltage to utilization voltage substation transformation, a discount of \$1.10 per KW of billing demand will apply.

**EMERGENCY RELAY POWER SUPPLY CHARGE:** The monthly charge for emergency relay power supply service shall be \$1.58 per KW of billing demand. 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. 6.025.

ISSUED BY: N. G. Tower, President

DATE EFFECTIVE:



ELEVENTH REVISED SHEET NO. 6.565  
CANCELS TENTH REVISED SHEET NO. 6.565

Continued from Sheet No. 6.560

**MONTHLY RATES:**

Basic Service Charge: \$15.12  
Energy and Demand Charges: 5.610¢ 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<sub>1</sub> (Low Cost Hours), P<sub>2</sub> (Moderate Cost Hours) and P<sub>3</sub> (High Cost Hours) are as follows:

<u>May through October</u>	<u>P<sub>1</sub></u>	<u>P<sub>2</sub></u>	<u>P<sub>3</sub></u>
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.	-----
<u>November through April</u>	<u>P<sub>1</sub></u>	<u>P<sub>2</sub></u>	<u>P<sub>3</sub></u>
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<sub>4</sub> (Critical Cost Hours) shall be determined at the sole discretion of the Company. Level P<sub>4</sub> hours shall not exceed 134 hours per year.

Continued to Sheet No. 6.570

ISSUED BY: N. G. Tower, President

DATE EFFECTIVE:



SIXTEENTH REVISED SHEET NO. 6.601  
CANCELS FIFTEENTH REVISED SHEET NO. 6.601

Continued from Sheet No. 6.600

**CHARGES FOR SUPPLEMENTAL SERVICE:**

Demand Charge:

\$11.08 per kW-Month of Supplemental Billing Demand (Supplemental Billing Demand Charge)

Energy Charge:

1.596¢ 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.)

	<u>April 1 - October 31</u>	<u>November 1 - March 31</u>
<u>Peak Hours:</u> (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:



**EIGHTEENTH REVISED SHEET NO. 6.603  
CANCELS SEVENTEENTH REVISED SHEET NO. 6.603**

Continued from Sheet No. 6.602

**METERING VOLTAGE ADJUSTMENT:** When the customer takes energy metered at primary voltage, a discount of 1% will apply to the Demand Charge, Energy Charge, Delivery Voltage Credit, Power Factor billing, and Emergency Relay Power Supply Charge.

When the customer takes energy metered at subtransmission or higher voltage, a discount of 2% will apply to the Demand Charge, Energy Charge, Delivery Voltage Credit, Power Factor billing, and Emergency Relay Power Supply Charge.

**DELIVERY VOLTAGE CREDIT:** When the customer takes service at primary voltage, a discount of 90¢ per kW of Supplemental Demand and 63¢ per kW of Standby Demand will apply.

When the customer takes service at subtransmission or higher voltage, a discount of \$2.78 per kW of Supplemental Demand and \$1.97 per kW of Standby Demand will apply.

**EMERGENCY RELAY POWER SUPPLY CHARGE:** The monthly charge for emergency relay power supply service shall be 71¢ per kW of Supplemental Demand and Standby Demand. 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. Note: Standby fuel charges shall be based on the time of use (i.e., peak and off-peak) fuel rates for Rate Schedule SBF. Supplemental fuel charges shall be based on the standard fuel rate for Rate Schedule SBF.

**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:



THIRTEENTH REVISED SHEET NO. 6.606  
CANCELS TWELFTH REVISED SHEET NO. 6.606

Continued from Sheet No. 6.605

**CHARGES FOR SUPPLEMENTAL SERVICE**

Demand Charge:

\$3.73 per kW-Month of Supplemental Demand (Supplemental Billing Demand Charge), plus  
\$7.34 per kW-Month of Supplemental Peak Demand (Supplemental Peak Billing Demand Charge)

Energy Charge:

2.921¢ per Supplemental kWh during peak hours  
1.054¢ 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.)

	<u>April 1 - October 31</u>	<u>November 1 - March 31</u>
<u>Peak Hours:</u> (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: N. G. Tower, President

DATE EFFECTIVE:



FIFTEENTH REVISED SHEET NO. 6.608  
CANCELS FOURTEENTH REVISED SHEET NO. 6.608

Continued from Sheet No. 6.607

**TERM OF SERVICE:** Any customer receiving service under this schedule will be required to give the Company written notice at least 60 months prior to transferring to a firm non-standby schedule. Such notice shall be irrevocable unless the Company and the customer should mutually agree to void the notice.

**TEMPORARY DISCONTINUANCE OF SERVICE:** Where the use of energy is seasonal or intermittent, no adjustments will be made for a temporary discontinuance of service. Any customer prior to resuming service within 12 months after such service was discontinued will be required to pay all charges which would have been billed if service had not been discontinued.

**POWER FACTOR:** When the average power factor during the month is less than 85%, the monthly bill will be increased 0.202¢ for each kVARh by which the reactive energy numerically exceeds 0.619744 times the billing energy. When the average power factor during the month is greater than 90%, the monthly bill will be decreased 0.101¢ for each kVARh by which the reactive energy is numerically less than 0.484322 times the billing energy.

**METERING VOLTAGE ADJUSTMENT:** When the customer takes energy metered at primary voltage, a discount of 1% will apply to the Demand Charges, Energy Charges, Delivery Voltage Credit, Power Factor billing, and Emergency Relay Power Supply Charge.

When the customer takes energy metered at subtransmission or higher voltage, a discount of 2% will apply to the Demand Charges, Energy Charges, Delivery Voltage Credit, Power Factor billing, and Emergency Relay Power Supply Charge.

**DELIVERY VOLTAGE CREDIT:** When the customer takes service at primary voltage, a discount of 90¢ per kW of Supplemental Demand and 63¢ per kW of Standby Demand will apply.

When the customer takes service at subtransmission or higher voltage, a discount of \$2.78 per kW of Supplemental Demand and \$1.97 per kW of Standby Demand will apply.

**EMERGENCY RELAY POWER SUPPLY CHARGE:** The monthly charge for emergency relay power supply service shall be 71¢ per kW of Supplemental Demand and Standby Demand. 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. 6.609

ISSUED BY: N. G. Tower, President

DATE EFFECTIVE:





ELEVENTH REVISED SHEET NO. 6.700  
CANCELS TENTH 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	\$652.10
Subtransmission Metering Voltage	\$2,415.90

**Demand Charge:**

\$4.04 per KW-Month of Supplemental Demand (Supplemental Demand Charge)  
\$1.46 per KW-Month of Standby Demand (Local Facilities Reservation Charge)

plus the greater of:

\$1.21 per KW-Month of Standby Demand (Power Supply Reservation Charge); or

\$0.48 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:



NINTH REVISED SHEET NO. 6.715  
CANCELS EIGHTH REVISED SHEET NO. 6.715

Continued from Sheet No. 6.710

**POWER FACTOR:** When the average power factor during the month is less than 85%, the monthly bill will be increased 0.202¢ for each kVARh by which the reactive energy numerically exceeds 0.619744 times the billing energy. When the average power factor during the month is greater than 90%, the monthly bill will be decreased 0.101¢ for each kVARh by which the reactive energy is numerically less than 0.484322 times the billing energy.

**METERING VOLTAGE ADJUSTMENT:** When the customer takes energy metered at subtransmission or higher voltage, a discount of 1% will apply to the standby and supplemental demand charges, energy charges, Delivery Voltage Credit, Power Factor billing, and Emergency Relay Power Supply Charges.

**DELIVERY VOLTAGE CREDIT:** When the customer furnishes and installs all subtransmission or higher voltage to utilization voltage substation transformation, a discount of \$1.10 per KW of Supplemental Demand and 34¢ per KW of Standby Demand will apply.

**EMERGENCY RELAY POWER SUPPLY CHARGE:** The monthly charge for emergency relay power supply service shall be \$1.58 per KW of Supplemental Demand and Standby Demand. This charge is in addition to the compensation the customer must make to the Company as a contribution-in-aid of construction.

**FUEL CHARGE:** Supplemental energy may be billed at either standard or time-of-day fuel rates at the option of the customer. 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:



NINTH REVISED SHEET NO. 6.805  
CANCELS EIGHTH REVISED SHEET NO. 6.805

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 (\$)			
Dusk to Dawn	Timed Svc.		Initial Lumens <sup>(2)</sup>	Lamp Wattage <sup>(3)</sup>	kWh		Fixture	Maint.	Base Energy <sup>(4)</sup>	
					Dusk to Dawn	Timed Svc.			Dusk to Dawn	Timed Svc.
800	860	Cobra <sup>(1)</sup>	4,000	50	20	10	3.16	2.48	0.50	0.25
802	862	Cobra/Nema <sup>(1)</sup>	6,300	70	29	14	3.20	2.11	0.73	0.35
803	863	Cobra/Nema <sup>(1)</sup>	9,500	100	44	22	3.63	2.33	1.11	0.55
804	864	Cobra <sup>(1)</sup>	16,000	150	66	33	4.18	2.02	1.66	0.83
805	865	Cobra <sup>(1)</sup>	28,500	250	105	52	4.87	2.60	2.65	1.31
806	866	Cobra <sup>(1)</sup>	50,000	400	163	81	5.09	2.99	4.11	2.04
468	454	Flood <sup>(1)</sup>	28,500	250	105	52	5.37	2.60	2.65	1.31
478	484	Flood <sup>(1)</sup>	50,000	400	163	81	5.71	3.00	4.11	2.04
809	869	Mongoose <sup>(1)</sup>	50,000	400	163	81	6.50	3.02	4.11	2.04
509	508	Post Top (PT) <sup>(1)</sup>	4,000	50	20	10	3.98	2.48	0.50	0.25
570	530	Classic PT <sup>(1)</sup>	9,500	100	44	22	11.85	1.89	1.11	0.55
810	870	Coach PT <sup>(1)</sup>	6,300	70	29	14	4.71	2.11	0.73	0.35
572	532	Colonial PT <sup>(1)</sup>	9,500	100	44	22	11.75	1.89	1.11	0.55
573	533	Salem PT <sup>(1)</sup>	9,500	100	44	22	9.03	1.89	1.11	0.55
550	534	Shoebox <sup>(1)</sup>	9,500	100	44	22	8.01	1.89	1.11	0.55
566	536	Shoebox <sup>(1)</sup>	28,500	250	105	52	8.69	3.18	2.65	1.31
552	538	Shoebox <sup>(1)</sup>	50,000	400	163	81	9.52	2.44	4.11	2.04

<sup>(1)</sup> Closed to new business

<sup>(2)</sup> Lumen output may vary by lamp configuration and age.

<sup>(3)</sup> Wattage ratings do not include ballast losses.

<sup>(4)</sup> The Base Energy charges are calculated by multiplying the kWh times the lighting base energy rate of 2.522¢ per kWh for each fixture.

Continued to Sheet No. 6.806

ISSUED BY: N. G. Tower, President

DATE EFFECTIVE:



SEVENTH REVISED SHEET NO. 6.806  
CANCELS SIXTH REVISED 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				Charges per Unit (\$)			
Dusk to Dawn	Timed Svc.		Initial Lumens <sup>(2)</sup>	Lamp Wattage <sup>(3)</sup>	kWh		Fixture	Maint.	Base Energy <sup>(4)</sup>	
					Dusk to Dawn	Timed Svc.			Dusk to Dawn	Timed Svc.
704	724	Cobra <sup>(1)</sup>	29,700	350	138	69	7.53	4.99	3.48	1.74
520	522	Cobra <sup>(1)</sup>	32,000	400	159	79	6.03	4.01	4.01	1.99
705	725	Flood <sup>(1)</sup>	29,700	350	138	69	8.55	5.04	3.48	1.74
556	541	Flood <sup>(1)</sup>	32,000	400	159	79	8.36	4.02	4.01	1.99
558	578	Flood <sup>(1)</sup>	107,800	1,000	383	191	10.50	8.17	9.66	4.82
701	721	General PT <sup>(1)</sup>	12,000	150	67	34	10.60	3.92	1.69	0.86
574	548	General PT <sup>(1)</sup>	14,400	175	74	37	10.89	3.73	1.87	0.93
700	720	Salem PT <sup>(1)</sup>	12,000	150	67	34	9.33	3.92	1.69	0.86
575	568	Salem PT <sup>(1)</sup>	14,400	175	74	37	9.38	3.74	1.87	0.93
702	722	Shoebox <sup>(1)</sup>	12,000	150	67	34	7.22	3.92	1.69	0.86
564	549	Shoebox <sup>(1)</sup>	12,800	175	74	37	7.95	3.70	1.87	0.93
703	723	Shoebox <sup>(1)</sup>	29,700	350	138	69	9.55	4.93	3.48	1.74
554	540	Shoebox <sup>(1)</sup>	32,000	400	159	79	10.02	3.97	4.01	1.99
576	577	Shoebox <sup>(1)</sup>	107,800	1,000	383	191	16.50	8.17	9.66	4.82

<sup>(1)</sup> Closed to new business

<sup>(2)</sup> Lumen output may vary by lamp configuration and age.

<sup>(3)</sup> Wattage ratings do not include ballast losses.

<sup>(4)</sup> The Base Energy charges are calculated by multiplying the kWh times the lighting base energy rate of 2.522¢ per kWh for each fixture.

Continued to Sheet No. 6.808

ISSUED BY: N. G. Tower, President

DATE EFFECTIVE:



EIGHTH REVISED SHEET NO. 6.808  
CANCELS SEVENTH REVISED 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 (\$)			
			Initial Lumens <sup>(2)</sup>	Lamp Wattage <sup>(3)</sup>	kWh <sup>(1)</sup>		Fixture	Maintenance	Base Energy <sup>(4)</sup>	
Dusk to Dawn	Timed Svc.				Dusk to Dawn	Timed Svc.			Dusk to Dawn	Timed Svc.
828	848	Roadway <sup>(1)</sup>	5,155	56	20	10	7.27	1.74	0.50	0.25
820	840	Roadway <sup>(1)</sup>	7,577	103	36	18	11.15	1.19	0.91	0.45
821	841	Roadway <sup>(1)</sup>	8,300	106	37	19	11.15	1.20	0.93	0.48
829	849	Roadway <sup>(1)</sup>	15,285	157	55	27	11.10	2.26	1.39	0.68
822	842	Roadway <sup>(1)</sup>	15,300	196	69	34	14.58	1.26	1.74	0.86
823	843	Roadway <sup>(1)</sup>	14,831	206	72	36	16.80	1.38	1.82	0.91
835	855	Post Top <sup>(1)</sup>	5,176	60	21	11	16.53	2.28	0.53	0.28
824	844	Post Top <sup>(1)</sup>	3,974	67	24	12	19.67	1.54	0.61	0.30
825	845	Post Top <sup>(1)</sup>	6,030	99	35	17	20.51	1.56	0.88	0.43
836	856	Post Top <sup>(1)</sup>	7,360	100	35	18	16.70	2.28	0.88	0.45
830	850	Area-Lighter <sup>(1)</sup>	14,100	152	53	27	14.85	2.51	1.34	0.68
826	846	Area-Lighter <sup>(1)</sup>	13,620	202	71	35	19.10	1.41	1.79	0.88
827	847	Area-Lighter <sup>(1)</sup>	21,197	309	108	54	20.60	1.55	2.72	1.36
831	851	Flood <sup>(1)</sup>	22,122	238	83	42	15.90	3.45	2.09	1.06
832	852	Flood <sup>(1)</sup>	32,087	359	126	63	19.16	4.10	3.18	1.59
833	853	Mongoose <sup>(1)</sup>	24,140	245	86	43	14.71	3.04	2.17	1.08
834	854	Mongoose <sup>(1)</sup>	32,093	328	115	57	16.31	3.60	2.90	1.44

<sup>(1)</sup> Closed to new business

<sup>(2)</sup> Average

<sup>(3)</sup> Average wattage. Actual wattage may vary by up to +/- 5 watts.

<sup>(4)</sup> The Base Energy charges are calculated by multiplying the kWh times the lighting base energy rate of 2.522¢ per kWh for each fixture.

Continued to Sheet No. 6.810

ISSUED BY: N. G. Tower, President

DATE EFFECTIVE:



THIRD REVISED SHEET NO. 6.809  
CANCELS SECOND REVISED SHEET NO. 6.809

Continued from Sheet No. 6.808

**MONTHLY RATE:**

LED Fixture, Maintenance, and Base Energy Charges:

Rate Code		Description	Size				Charges per Unit (\$)			
Dusk to Dawn	Timed Svc.		Initial Lumens <sup>(1)</sup>	Lamp Wattage <sup>(2)</sup>	kWh <sup>(1)</sup>		Fixture	Maint.	Base Energy <sup>(3)</sup>	
					Dusk to Dawn	Timed Svc.			Dusk to Dawn	Timed Svc.
912	981	Roadway	2,600	27	9	5	4.83	1.74	0.23	0.13
914		Roadway	5,392	47	16		5.97	1.74	0.40	
921		Roadway/Area	8,500	88	31		8.97	1.74	0.78	
926	982	Roadway	12,414	105	37	18	6.83	1.19	0.93	0.45
932		Roadway/Area	15,742	133	47		14.15	1.38	1.19	
935		Area-Lighter	16,113	143	50		11.74	1.41	1.26	
937		Roadway	16,251	145	51		8.61	2.26	1.29	
941	983	Roadway	22,233	182	64	32	11.81	2.51	1.61	0.81
945		Area-Lighter	29,533	247	86		16.07	2.51	2.17	
947	984	Area-Lighter	33,600	330	116	58	20.13	1.55	2.93	1.46
951	985	Flood	23,067	199	70	35	11.12	3.45	1.77	0.88
953	986	Flood	33,113	255	89	45	21.48	4.10	2.24	1.13
956	987	Mongoose	23,563	225	79	39	11.78	3.04	1.99	0.98
958		Mongoose	34,937	333	117		17.84	3.60	2.95	
965		Granville Post Top (PT)	3,024	26	9		5.80	2.28	0.23	
967	988	Granville PT	4,990	39	14	7	13.35	2.28	0.35	0.18
968	989	Granville PT Enh <sup>(4)</sup>	4,476	39	14	7	15.35	2.28	0.35	0.18
971		Salem PT	5,240	55	19		10.95	1.54	0.48	
972		Granville PT	7,076	60	21		14.62	2.28	0.53	
973		Granville PT Enh <sup>(4)</sup>	6,347	60	21		16.62	2.28	0.53	
975	990	Salem PT	7,188	76	27	13	13.17	1.54	0.68	0.33

<sup>(1)</sup> Average  
<sup>(2)</sup> Average wattage. Actual wattage may vary by up to +/- 10 %.  
<sup>(3)</sup> The Base Energy charges are calculated by multiplying the kWh times the lighting base energy rate of 2.522¢ per kWh for each fixture.  
<sup>(4)</sup> Enhanced Post Top. Customizable decorative options

Continued to Sheet No. 6.810

ISSUED BY: N. G. Tower, President

DATE EFFECTIVE:



SEVENTH REVISED SHEET NO. 6.815  
CANCELS SIXTH 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 2.522¢ per kWh of metered usage, plus a Basic Service Charge of \$10.57 per month and the applicable additional charges as specified on Sheet Nos. 6.020 and 6.021.

Continued to Sheet No. 6.820

ISSUED BY: N. G. Tower, President

DATE EFFECTIVE:

**EXHIBIT**

**OF**

**JOSE A. APONTE**

FLORIDA PUBLIC SERVICE COMMISSION  
DOCKET: 20190136-EI EXHIBIT: 3  
PARTY: TAMPA ELECTRIC COMPANY –  
DIRECT  
DESCRIPTION: Jose A. Aponte JAA-1



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TAMPA ELECTRIC COMPANY  
DOCKET NO. 2019\_\_\_\_\_-EI  
EXHIBIT NO. \_\_\_\_\_ (JAA-1)  
WITNESS: APONTE  
DOCUMENT NO. 1

## Demand & Energy Forecast

**Demand & Energy Forecast**

	Winter (MW)	Summer (MW)	Energy (GWh)
2019	3,091	4,106	20,432
2020	4,384	4,148	20,497
2021	4,447	4,193	20,674
2022	4,505	4,242	20,882
2023	4,567	4,294	21,105
2024	4,628	4,344	21,338
2025	4,686	4,391	21,547
2026	4,738	4,435	21,738
2027	4,791	4,481	21,950
2028	4,844	4,530	22,181
2029	4,898	4,580	22,430
2030	4,953	4,628	22,674
2031	5,004	4,672	22,904
2032	5,052	4,718	23,138
2033	5,102	4,764	23,375
2034	5,152	4,812	23,621
2035	5,204	4,859	23,867
2036	5,251	4,903	24,103
2037	5,297	4,947	24,342
2038	5,343	4,992	24,584
2039	5,343	4,992	24,584
2040	5,343	4,992	24,584
2041	5,343	4,992	24,584
2042	5,343	4,992	24,584
2043	5,343	4,992	24,584
2044	5,343	4,992	24,584
2045	5,343	4,992	24,584
2046	5,343	4,992	24,584
2047	5,343	4,992	24,584
2048	5,343	4,992	24,584
2049	5,343	4,992	24,584

TAMPA ELECTRIC COMPANY  
DOCKET NO. 2019 \_\_\_\_\_-EI  
EXHIBIT NO. \_\_\_\_\_ (JAA-1)  
WITNESS: APONTE  
DOCUMENT NO. 2

## Fuel Forecast

<b>Fuel Forecast (\$/MMBtu)</b>		
	<b>Coal</b>	<b>Natural Gas</b>
<b>2019</b>	3.21	3.04
<b>2020</b>	3.22	2.87
<b>2021</b>	3.27	2.80
<b>2022</b>	3.28	2.93
<b>2023</b>	3.32	3.14
<b>2024</b>	3.46	3.33
<b>2025</b>	3.60	3.63
<b>2026</b>	3.73	4.01
<b>2027</b>	3.86	4.28
<b>2028</b>	3.99	4.51
<b>2029</b>	4.14	4.69
<b>2030</b>	4.28	4.85
<b>2031</b>	4.43	5.00
<b>2032</b>	4.60	5.19
<b>2033</b>	4.77	5.40
<b>2034</b>	4.94	5.62
<b>2035</b>	5.12	5.85
<b>2036</b>	5.31	6.13
<b>2037</b>	5.50	6.39
<b>2038</b>	5.71	6.64
<b>2039</b>	5.92	6.93
<b>2040</b>	6.13	7.30
<b>2041</b>	6.27	7.57
<b>2042</b>	6.44	7.82
<b>2043</b>	6.63	8.10
<b>2044</b>	6.84	8.44
<b>2045</b>	7.05	8.76
<b>2046</b>	7.25	9.06
<b>2047</b>	7.47	9.40
<b>2048</b>	7.74	9.87
<b>2049</b>	8.02	10.09

TAMPA ELECTRIC COMPANY  
DOCKET NO. 2019\_\_\_\_\_-EI  
EXHIBIT NO. \_\_\_\_ (JAA-1)  
WITNESS: APONTE  
DOCUMENT NO. 3

## Revenue Requirements for Third SoBRA

**Revenue Requirements for Third SoBRA**

**149.3 MW of Solar Projects**

<b>(\$000)</b>	<b>2020</b>
Wimauma	11,412
Little Manatee River	12,289
<b>Capital RR</b>	23,701
Wimauma	444
Little Manatee River	997
<b>FOM</b>	1,440
<b>Land RR</b>	1,397
<b>TOTAL RR</b>	26,539

**Revenue Requirements for Third SoBRA**

**With Sharing Mechanism**

**149.3 MW of Solar Projects  
with 75%/25% Incentive**

<b>(\$000)</b>	<b>2020</b>
Wimauma	11,459
Little Manatee River	12,300
<b>Capital RR</b>	23,759
Wimauma	444
Little Manatee River	997
<b>FOM</b>	1,440
<b>Land RR</b>	1,397
<b>TOTAL RR</b>	26,596

Note: Totals may not sum due to rounding.

TAMPA ELECTRIC COMPANY  
DOCKET NO. 2019\_\_\_\_\_-EI  
EXHIBIT NO. \_\_\_\_\_ (JAA-1)  
WITNESS: APONTE  
DOCUMENT NO. 4

Revenue Requirements  
for Third SoBRA  
with LMR Land as Purchase



**Revenue Requirements for Third SoBRA**

**149.3 MW of Solar Projects**

**LMR Land as Purchase**

<b>(\$000)</b>	<b>2020</b>
Wimauma	11,412
Little Manatee River	12,289
<b>Capital RR</b>	<b>23,701</b>
Wimauma	444
Little Manatee River	442
<b>FOM</b>	<b>885</b>
<b>Land RR</b>	<b>2,074</b>
<b>TOTAL RR</b>	<b>26,661</b>

**Revenue Requirements for Third SoBRA**

**With Sharing Mechanism**

**149.3 MW of Solar Projects**

**with 75%/25% Incentive**

**LMR Land as Purchase**

<b>(\$000)</b>	<b>2020</b>
Wimauma	11,459
Little Manatee River	12,300
<b>Capital RR</b>	<b>23,759</b>
Wimauma	444
Little Manatee River	442
<b>FOM</b>	<b>885</b>
<b>Land RR</b>	<b>2,074</b>
<b>TOTAL RR</b>	<b>26,718</b>

Note: Totals may not sum due to rounding.

TAMPA ELECTRIC COMPANY  
DOCKET NO. 2019\_\_\_\_\_-EI  
EXHIBIT NO. \_\_\_\_\_ (JAA-1)  
WITNESS: APONTE  
DOCUMENT NO. 5

**Cost-Effectiveness Test for Third SoBRA**

**COST-EFFECTIVENESS TEST FOR THIRD SoBRA**

<b>Delta CPVRR Revenue Requirements - Base Fuel</b>	<b>Cost/(Savings) (2019 US \$ millions)</b>
Capital RR - Other New Units	\$0.0
Value of Deferral	(\$42.9)
Capital RR - Solar New Arrays (w/Interconnect)	\$195.1
RR of Land for Solar	\$15.5
System VOM	(\$8.2)
FOM - Other Future Units	\$0.0
FOM - Solar Future Arrays	\$17.0
System Fuel	(\$193.0)
System Capacity	\$0.0
<b>Sub Total w/o NOx or CO<sub>2</sub> Cost</b>	<b>(\$16.5)</b>
Plus Emissions Costs	
CO <sub>2</sub> - Base	(\$16.6)
CO <sub>2</sub> - High	(\$59.0)
CO <sub>2</sub> - Low	\$0.0
NOx - Base	\$0.2
<b>BASE: Total w/ CO<sub>2</sub> &amp; NOx Cost</b>	<b>(\$33.3)</b>
<b>HIGH: Total w/ CO<sub>2</sub> &amp; NOx Cost</b>	<b>(\$75.6)</b>
<b>LOW: Total w/ CO<sub>2</sub> &amp; NOx Cost</b>	<b>(\$16.7)</b>

**EXHIBIT**

**OF**

**MARK D. WARD**

FLORIDA PUBLIC SERVICE COMMISSION  
DOCKET: 20190136-EI EXHIBIT: 4  
PARTY: TAMPA ELECTRIC COMPANY –  
DIRECT  
DESCRIPTION: Mark D. Ward MDW-1

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TAMPA ELECTRIC COMPANY  
DOCKET NO. 2019\_\_\_\_\_-EI  
EXHIBIT NO. \_\_\_\_\_ (MDW-1)  
WITNESS: WARD  
DOCUMENT NO. 1

Wimauma Solar Project  
Specifications and Projected Costs

## Wimauma Solar Project Specifications

Specifications of Proposed Solar PV Generating Facilities		
(1)	Plant Name and Unit Number	Wimauma Solar
(2)	Net Capability	74.8 MW-ac
(3)	Technology Type	Single Axis Tracking PV Solar
(4)	Anticipated Construction Timing	
	A. Field Construction Start Date <sup>1</sup>	October 2017
	B. Commercial In-Service Date	January 2020
(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)	N/A
	Forced Outage Factor (FOF)	N/A
	Equivalent Availability Factor (EAF)	N/A
	Resulting Capacity Factor (2018)	27.3% (1st Full Yr Operation)
	Average Net Operating Heat Rate (ANOHR)	N/A
(13)	Projected Unit Financial Data	
	Book Life (Years)	30
	Total Installed Cost (In-Service Year \$/kW) <sup>2</sup>	1,479
	Direct Construction Cost (\$/kW)	1,446
	AFUDC Amount (\$/kW) <sup>3</sup>	32.27
	Escalation (\$/kW)	N/A
	Fixed O&M (\$/kW-yr)	5.46
	Variable O&M (\$/MWh)	0.0
	K-Factor <sup>4</sup>	1.10

- 1 Construction schedule includes engineering design and permitting
- 2 Total installed cost includes transmission interconnection
- 3 Based on the current AFUDC rate of 6.46%
- 4 W/o land

## Wimauma Solar General Arrangement Drawing





**Wimauma Solar**

<b>Projected Installed Costs (\$ Million)</b>	
Project Output (MW <sub>ac</sub> )	74.8
Major Equipment <sup>1</sup>	██████
Balance of System <sup>2</sup>	██████
Development	1.7
Transmission Interconnect	6.4
Land	13.1
Owners Costs	1.3
<hr/>	
Total Installed Cost (\$ Million)	108.2
AFUDC (\$ Million)	2.4
Total All-in-Cost (\$ Million)	110.6
Total (\$ per kW <sub>ac</sub> )	1,479

<sup>1</sup> Major Equipment includes modules, inverters, and transformers

<sup>2</sup> Balance of System includes racking, posts, collection cables, EPC contractor, and project management

TAMPA ELECTRIC COMPANY  
DOCKET NO. 2019\_\_\_\_\_-EI  
EXHIBIT NO. \_\_\_\_\_ (MDW-1)  
WITNESS: WARD  
DOCUMENT NO. 2

Little Manatee River Solar  
Project Specifications and  
Projected Costs

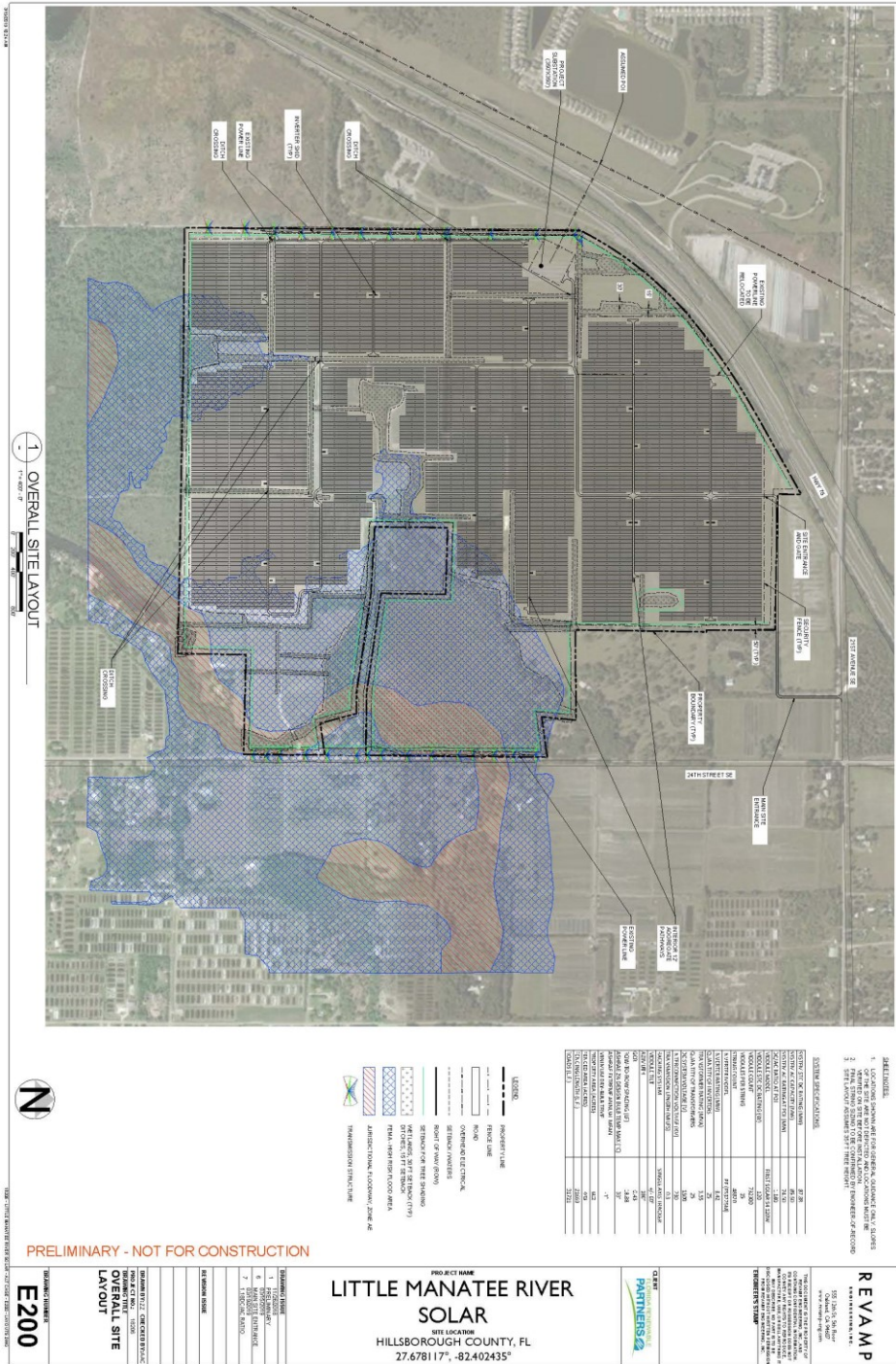
## Little Manatee River Solar

### Specifications of Proposed Solar PV Generating Facilities

(1)	Plant Name and Unit Number	Little Manatee River Solar
(2)	Net Capability	74.5 MW-ac
(3)	Technology Type	Single Axis Tracking PV Solar
(4)	Anticipated Construction Timing	
	A. Field Construction Start Date <sup>1</sup>	December 2017
	B. Commercial In-Service Date	January 2020
(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	603 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)	N/A
	Forced Outage Factor (FOF)	N/A
	Equivalent Availability Factor (EAF)	N/A
	Resulting Capacity Factor (2018)	28.6% (1 <sup>st</sup> Full Yr Operation)
	Average Net Operating Heat Rate (ANOHR)	N/A
(13)	Projected Unit Financial Data	
	Book Life (Years)	30
	Total Installed Cost (In-Service Year \$/kW) <sup>2</sup>	1,410
	Direct Construction Cost (\$/kW)	1,410
	AFUDC Amount (\$/kW) <sup>3</sup>	N/A
	Escalation (\$/kW)	N/A
	Fixed O&M (\$/kW-yr) <sup>4</sup>	13.38
	Variable O&M (\$/MWh)	0.0
	K-Factor <sup>5</sup>	1.17

- 1 Construction schedule includes engineering design and permitting
- 2 Total installed cost includes transmission interconnection and excludes land costs
- 3 Based on the current AFUDC rate of 6.46%
- 4 Fixed O&M cost includes land lease
- 5 W/o land

## Little Manatee River Solar Project General Arrangement Drawing



**Little Manatee River Solar**

<b>Projected Installed Cost (\$ Million)</b>	
Project Output (MW <sub>ac</sub> )	74.5
Major Equipment <sup>1</sup>	██████
Balance of System <sup>2</sup>	██████
Development	1.8
Transmission Interconnect	9.7
Land	N/A
Owners Costs	1.2
<b>Total Installed Cost (\$ Million)</b>	<b>105.1</b>
AFUDC (\$ Million)	N/A
<b>Total All-in-Cost (\$ Million)</b>	<b>105.1</b>
<b>Total (\$ per kW<sub>ac</sub>)</b>	<b>1,410</b>

<sup>1</sup> Major Equipment includes modules, inverters, and transformers

<sup>2</sup> Balance of System includes racking, posts, collection cables, EPC contractor, and project management

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TECO response to STAFF 1<sup>st</sup> Interrogatories  
Nos. 1 - 18.

**Additional files contained on Staff Hearing  
Exhibits CD/USB for No. 4**

FLORIDA PUBLIC SERVICE COMMISSION  
DOCKET: 20190136-EI EXHIBIT: 5  
PARTY: STAFF HEARING EXHIBITS  
DESCRIPTION: Ward (1-2, 12-13)Aponte  
(3-9,11,14-18)Ashburn(10)

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 20190136-EI  
STAFF'S FIRST SET OF  
INTERROGATORIES  
INTERROGATORY NO. 1  
PAGE 1 OF 2  
FILED: SEPTEMBER 26, 2019**

1. Please answer the following questions regarding the Wimauma property:
  - a. How many total acres are in the Wimauma property?
  - b. How many acres in the Wimauma property are planned for this solar installation?
  - c. How many acres in the Wimauma property would be suitable for future development as a solar installation, or for other utility purposes?
  - d. How many acres in the Wimauma property are not suitable for a solar installation, or for any other utility purpose? Please explain why these acres are not suitable.
  - e. How long has Tampa Electric Company (TECO) owned the Wimauma property?
  - f. Page 3 of Document 1 of Exhibit MDW-1, attached to the direct testimony of Mark D. Ward, reflects that nearly \$1.7 million is planned for development of the Wimauma property. Please describe the work activities that are needed to develop this property.
  - g. Page 3 of Document 1 of Exhibit MDW-1, attached to the direct testimony of Mark D. Ward, reflects that nearly \$6.4 million is planned for developing the transmission interconnection for the Wimauma property. Please describe the work needed to develop the transmission interconnection for this property.
  - h. Page 3 of Document 1 of Exhibit MDW-1, attached to the direct testimony of Mark D. Ward, reflects that nearly \$1.3 million is planned for owner costs for the Wimauma property. Please describe the costs, citing examples.
  
- A.
  - a. The Wimauma Solar project site is 718 acres.
  - b. The Wimauma Solar array will be located on 513 acres.
  - c. Approximately 150-200 acres may be available for a future cost-effective battery storage project to be integrated with the solar project.

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- d. Approximately 60 acres are not suitable for PV solar or other utility purposes. This land has been identified as wetlands and a floodway and will not be mitigated for any other use.
- e. The parcel was purchased November 2017.
- f. The work activities necessary to develop the Wimauma Solar site include developer due diligence to ensure the site can support a solar project and engineering required to complete county and state permit applications. Due diligence activities include detailed geotechnical studies, environmental studies, and wetlands delineation. Engineering and design activities include development and analysis of the civil plans, storm water analyses, and design of the project's solar array.
- g. The transmission interconnection required for Wimauma Solar includes constructing a 4-mile 69kV transmission line from the nearest substation and upgrades at the existing substation.
- h. Owner's costs include costs of work performed by Tampa Electric employees that are assigned to the solar projects and were not employed prior to Tampa Electric's last rate case, as well as consultants that have been retained by the company to assist in development and project management activities. An example is the Director of Renewables, an employee hired by Tampa Electric at the end of 2016 who spends the majority of time working on Tampa Electric's utility scale solar projects. The owner's costs also include site due diligence (preliminary geotechnical study and environmental studies), surveys, real estate due diligence, legal costs, wetlands delineation, builder's risk insurance, engineering, and management of the environmental permitting process.



**TAMPA ELECTRIC COMPANY  
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STAFF'S FIRST SET OF  
INTERROGATORIES  
INTERROGATORY NO. 2  
PAGE 1 OF 2  
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2. Please answer the following questions regarding the Little Manatee River (LMR) property:
- a. How many total acres are in the LMR property?
  - b. How many acres in the LMR property are planned for this solar installation?
  - c. How many acres in the LMR property would be suitable for future development as a solar installation, or for other utility purposes?
  - d. How many acres in the LMR property are not suitable for a solar installation, or for any other utility purpose? Please explain why these acres are not suitable.
  - e. Page 3 of Document 2 of Exhibit MDW-1, attached to the direct testimony of Mark D. Ward, reflects that nearly \$1.8 million is planned for development of the LMR property. Please describe the work activities that are needed to develop this property.
  - f. Page 3 of Document 2 of Exhibit MDW-1, attached to the direct testimony of Mark D. Ward, reflects that nearly \$9.7 million is planned for developing the transmission interconnection for the LMR property. Please describe the work needed to develop the transmission interconnection for this property.
  - g. Page 3 of Document 2 of Exhibit MDW-1, attached to the direct testimony of Mark D. Ward, reflects that nearly \$1.2 million is planned for owner costs for the LMR property. Please describe the costs, citing examples.
- A.
- a. The LMR Solar project site is 603 leased acres.
  - b. The LMR Solar array will be located on 487 acres.
  - c. Approximately 116 acres may be available for a future cost-effective battery storage project to be integrated with the solar project.

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INTERROGATORY NO. 2  
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- d. Approximately 20 acres are not compatible for PV solar or other utility purposes. This land has been identified as wetlands and will not be mitigated for any other use.
- e. The work activities necessary to develop the LMR Solar site include developer due diligence to ensure the site can support a solar project and engineering required to complete county and state permit applications. Due diligence activities include detailed geotechnical studies, environmental studies, and wetlands delineation. Engineering and design activities include development and analysis of the civil plans, storm water analyses, and design of the project's solar array.
- f. The transmission interconnection required for LMR Solar includes construction of a substation and a new three breaker 230-kV ring bus switchyard that will be looped into an existing 230-kV transmission circuit.
- g. Owner's costs include costs of work performed by Tampa Electric employees that are assigned to the solar projects and were not employed prior to Tampa Electric's last rate case, as well as consultants that have been retained by the company to assist in development and project management activities. An example is the Director of Renewables, an employee hired by Tampa Electric at the end of 2016 who spends the majority of time working on Tampa Electric's utility scale solar projects. The owner's costs also include legal and IT costs.

**TAMPA ELECTRIC COMPANY  
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STAFF'S FIRST SET OF  
INTERROGATORIES  
INTERROGATORY NO. 3  
PAGE 1 OF 1  
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3. Please refer to witness Aponte's direct testimony, page 19, lines 15 through 21. Is the value of deferral methodology explicitly included in the 2017 Settlement Agreement? If so, please identify the section.
- A. Paragraph 6 of the 2017 Settlement Agreement was intended by the parties to give Tampa Electric an opportunity to build 550 MW of cost-effective solar generation (plus an additional optional 50 MW) over a period of time. The total capacity was divided into three tranches (plus an optional fourth tranche) and staged or allocated to future time periods to accommodate orderly construction and to phase in and moderate the rate impact to retail customers. During the negotiations, the company disclosed its plans to purchase the solar modules for the entire 600 MW and then finalized the purchase in 2017. Although the specifics of the value of deferral methodology contemplated in the 2017 Settlement Agreement are not spelled out in paragraph 6, the way in which the company has apportioned solar capacity value and value of other deferred capacity in its CPVRR calculation is consistent with the way the parties discussed the solar additions in paragraph 6 of the 2017 Settlement Agreement and will have no precedential value beyond Tampa Electric's solar base rate adjustments and the 2017 Settlement Agreement.

The company calculated these capacity values as a way to prorate the expansion plan savings from the entire 600 MW in the Agreement. It is also the same ratable approach of value of deferral used when evaluating demand-side management programs in Tampa Electric's conservation dockets. This was essential because expansion plan additions are "lumpy," and even 1 MW of Tranche 1 could be the tipping point to defer an expansion plan addition while Tranche 2 does not, even though it is 80 percent more MW than Tranche 1. To do otherwise would incorrectly benefit Tranche 1 at the expense of the other Tranches and would be inconsistent with the solar capacity addition in the Agreement, which led the company to plan and procure solar equipment.

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 20190136-EI  
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INTERROGATORIES  
INTERROGATORY NO. 4  
PAGE 1 OF 2  
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4. Please refer to witness Aponte’s direct testimony, page 17, line 18 through page 18, line 9 and Exhibit JAA-1, Document No. 5. Provide a table comparing TECO’s resource plan with the base case (without the Third SoBRA Tranche) and the change case (with the Third SoBRA Tranche). As a part of this response, identify unit additions, retirements and changes for each year in the resource plan.
- a. Please provide reserve margin amounts, for the life of the proposed solar tranche, for each the Base Case and the Change Case. As a part of this response, complete the table below and provide in electronic (Excel) format.

Year	Installed Capacity	Firm Import Capacity	Firm Export Capacity	QF Capacity	Total Available Capacity	System Net Firm Summer Peak Demand	Reserve Margin Before Maintenance	Scheduled Maintenance	Reserve Margin After Maintenance
	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW) (%)

- A. The requested information is provided in the Excel file titled “(BS 7) Staff’s First Set of IRRs.xlsx” at tabs “Q4 - No 3rd SoBRA Sched 7,” “Q4 - 3rd SoBRA Sched 7,” and “Q4 - Add + Ret + RM deltas”.

**TAMPA ELECTRIC COMPANY  
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STAFF'S FIRST SET OF  
INTERROGATORIES  
INTERROGATORY NO. 5  
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- 5.** Please refer to TECO's witness Aponte's direct testimony page 10, line 25 through page 11, line 3. Explain how was book depreciation calculated, and for each planned solar generating unit, please detail the depreciation life and actual life.
  
- A.** Annual book depreciation is  $1/30^{\text{th}}$  of the capital and AFUDC cost of the depreciable assets. The company uses a thirty-year book life, with straight line depreciation for tracking photovoltaic solar facilities. A thirty-year book life was selected because it is expected to be the actual life of the unit.

**TAMPA ELECTRIC COMPANY  
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STAFF'S FIRST SET OF  
INTERROGATORIES  
INTERROGATORY NO. 6  
PAGE 1 OF 2  
FILED: SEPTEMBER 26, 2019**

6. Please refer to witness Aponte’s Exhibit JAA-1, Document No. 5.
- a. Please provide annual and cumulative revenue requirements (in nominal and net present value), over the life of the Third SoBRA Tranche, for the base case (without the Third SoBRA Tranche) and the change case (with the Third SoBRA Tranche), and the difference between the cases. As a part of this response, complete the table below and provide in electronic (Excel) format.

[Scenario Name] – ([Nominal / NPV] \$ millions)																
Year	2020 SoBRA				Remainder of System										System Total	
	Generation	Transmission	O&M	Total	Generation	Transmission	Fuel	Purchases	Fuel	Transportation	Value of Deferral	O&M	Emissions (Non-carbon)	Emissions (Carbon-only)		Total
2020																
...																
Total																

- b. Please perform sensitivities for fuel and emissions savings, and combinations thereof, for low and high fuel and emissions prices and provide the same information as outlined in subpart (a). For the low emissions scenarios, assume zero price for CO2 emissions.
- c. Please report the cumulative present value revenue requirement results for each of the sensitivities for fuel and emissions scenarios in subpart (b) in the table below.

CPVRR Savings (\$Millions)		Emissions		
		Low	Medium	High
Fuel	Low			
	Medium			
	High			

- A. a. See the Excel file titled “(BS 7) Staff's First Set of IRRs.xlsx” at tab “Q6a -Annual RR (Base Fuel)”.

**TAMPA ELECTRIC COMPANY**  
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**PAGE 2 OF 2**  
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b. See the Excel file titled "(BS 7) Staff's First Set of IRRs.xlsx" at tab "Q6b – Annual RR (High Fuel)".

c.

CPVRR Savings (\$Millions)		Emissions		
		Low	Medium	High
Fuel	Low	(0.2)	(16.5)	(56.2)
	Medium	(0.2)	(16.8)	(59.1)
	High	(0.2)	(15.4)	(54.8)

**TAMPA ELECTRIC COMPANY  
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STAFF'S FIRST SET OF  
INTERROGATORIES  
INTERROGATORY NO. 7  
PAGE 1 OF 1  
FILED: SEPTEMBER 26, 2019**

7. Please refer to witness Aponte’s direct testimony, page 18, line 11 through page 20, line 24.
- a. Provide a table comparing TECO’s 2017 resource plan for the full 600 MW of solar generation with TECO’s updated resource plan for the change case with the Third SoBRA Tranche.
  - b. Please provide the annual and cumulative revenue requirements (in nominal and net present value) for the full 600 MW of solar generation. Provide two versions of this analysis, one with the original 2017 assumptions, and one using updated 2019 fuel forecast values. As a part of this response, complete the table below and provide in electronic (Excel) format.

(2017 Analysis / 2020 Analysis) - ([Nominal / NPV] \$ millions)														
Year	600 MW Solar				Remainder of System									System Total
	Generation	Transmission	O&M	Total	Generation	Transmission	Fuel	Purchases	Fuel Transportation	O&M	Emissions (Non-carbon)	Emissions (Carbon-only)	Total	
2020														
...														
Total														

- A.
  - a. See the Excel file titled “(BS 7) Staff’s First Set of IRRs.xlsx” at tab “Q7a – 2017 RP vs 2019 RP” for a side-by-side table comparing resource timing for the original 600 MW of solar case to the current 2019 resource plan with 600 MW of solar. Differences to note from one plan to the other are that load forecasts are updated each summer and have been increasing over time and that the portfolio retirements from the 2017 Resource Plan were determined before the decision to modernize Big Bend Unit 1.
  - b. See the Excel file titled “(BS 7) Staff’s First Set of IRRs.xlsx” at tab “Q7b - Orig 600 Annual RR” for the requested tables using the original 2017 analysis and tab “Q7b - Orig 600 Annual RR 19Fuel” for the requested tables using the original analysis and updated 2019 fuel forecast values.



**TAMPA ELECTRIC COMPANY  
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INTERROGATORIES  
INTERROGATORY NO. 8  
PAGE 1 OF 1  
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8. Please refer to EXH JAA-1, Document No. 5. Please provide the annual avoided fossil fuels (avoided oil barrels, avoided natural gas MMcf, avoided coal short tons) for the life of the Third SoBRA Tranche. Please explain how calculations were made for each fuel and provide an example using 2021. Please provide response in tabular format in Excel.
- A. A base case model was prepared without the third tranche of solar generation. Next, starting from this base case, a change case model was prepared with the third tranche, 149.3 MW of solar generation in service on January 1, 2020. Both the base case and change case were run with the production cost modeling software for an economic dispatch. The generation times the heat rate divided by the fuel's heating value equals the fuel used. The change case fuels were then subtracted from the base case fuels to arrive at the avoided fuels.

The Excel file titled "(BS 7) Staff's First Set of IRRs.xlsx" provides the avoided fossil fuels and example calculations for year 2021 on tabs "Q8 - Avoided Fuel," "Q8 - Coal Tons," "Q8 - NG MCF," and "Q8 -PetCoke Tons."

**TAMPA ELECTRIC COMPANY  
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INTERROGATORIES  
INTERROGATORY NO. 9  
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9. Please provide the annual avoided air emissions (CO<sub>2</sub>, SO<sub>2</sub>, NO<sub>x</sub>) for the life of the Third SoBRA Tranche. Show how each was calculated using the year 2020 as an example. Please provide response in tabular format in Excel.
- A. A base case model was prepared without the third tranche of solar generation. Next, starting from this base case, a change case model was prepared with the third tranche, 149.3 MW of solar generation in service on January 1, 2020. Both the base case and change case were run with the production cost modeling software for an economic dispatch. The fuel used times the fuel's emissions rate equals the emissions. The change case emissions were then subtracted from the base case emissions to arrive at the avoided emissions.

The Excel file titled "(BS 7) Staff's First Set of IRRs.xlsx" provides the air emissions and example calculations for year 2021 on tabs "Q9 - Avoided Emissions", "Q9 - Avoided CO<sub>2</sub>", "Q9 - Avoided NO<sub>x</sub>", and "Q9 - Avoided SO<sub>2</sub>".

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 20190136-EI  
STAFF'S FIRST SET OF  
INTERROGATORIES  
INTERROGATORY NO. 10  
PAGE 1 OF 2  
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**10.** Please refer to witness Ashburn’s Exhibit WRA-1, Document No. 4, page 1 of 4. For both base case (without the Third SoBRA Tranche) and the change case (with the Third SoBRA Tranche), provide annually the estimated residential bill impact for a residential customer’s bill (1,000 kWh), broken down to provide base rate, clause, and total bill impacts. As part of this response, identify what portion of the proposed base rate bill impact and total bill impact are attributable to the sharing mechanism. Please provide all calculations in Excel format, with formulas intact.

**A.** The residential bill rate impact and the incentive portion are shown in the table below. All calculations are provided in the Excel file titled “(BS 15) 20190136 Staff 1st DR No. 10.xlsx”.

1,000 kWh RS Bill	Present Rates	Proposed Rates	Difference	Incentive Difference
Base Rate	\$66.53	\$68.08	\$1.55	\$0.00
Fuel Charge *	29.13	28.55	-0.58	0.00
ECCR Charge	3.21	3.21	0.00	0.00
Capacity Charge	-0.10	-0.10	0.00	0.00
ECRC Charge	2.22	2.22	0.00	0.00
GRT Charge	<u>2.59</u>	<u>2.61</u>	<u>0.02</u>	<u>0.00</u>
Total	\$103.58	\$104.58	\$1.00	\$0.00

\* Incentive Does Not Affect Fuel Charge Difference

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 20190136-EI  
STAFF'S FIRST SET OF  
INTERROGATORIES  
INTERROGATORY NO. 11  
PAGE 1 OF 1  
FILED: SEPTEMBER 26, 2019**

- 11.** Please refer to witness Aponte's direct testimony, page 9, lines 24 through 25. Please detail the amount the statewide property tax exemption for solar generation affects the TECO's Third SoBRA projects annual revenue requirement?
- A.** The statewide property tax exemption for solar generation gives an 80% property tax abatement for non-residential renewable energy property that expires December 31, 2037. This exemption reduces property taxes for the solar projects as follows: Wimauma by \$8.4 million and Little Manatee River by \$9 million for a total property tax exemption of \$17.4 million.

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 20190136-EI  
STAFF'S FIRST SET OF  
INTERROGATORIES  
INTERROGATORY NO. 12  
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FILED: SEPTEMBER 26, 2019**

- 12.** Please refer to witness Ward's direct testimony, page 9, lines 8 through 21, for the following questions.
- a. Did TECO solicit bids from any other entities? If not, why not?
  - b. Were other sites evaluated before selecting the LMR project site? If so, identify them and please explain why they were not selected.
- A.**
- a. No. Tampa Electric received unsolicited bids and included them in consideration with its self-build options. LMR Solar was considered along with another project by an independent developer. Both projects were found to be cost-effective. LMR Solar was selected for the Third SoBRA because its development was more advanced than the other project.
  - b. See the company's response to part (a).

**TAMPA ELECTRIC COMPANY  
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INTERROGATORIES  
INTERROGATORY NO. 13  
PAGE 1 OF 1  
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- 13.** Please refer to witness Ward's direct testimony, page 11, lines 17 through 19, for the following questions.
- a. Have the permits been received? If not, when are they anticipated to arrive; and how much, if any, will it alter the project schedule?
  - b. Has construction begun? If so, how far along is it? If not, when is it anticipated to start; and how much, if any, will it alter the project schedule?
- A.**
- a. All permits have been received.
  - b. LMR Solar construction began late July 2019. The project is expected to reach commercial operation in January 2020.

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 20190136-EI  
STAFF'S FIRST SET OF  
INTERROGATORIES  
INTERROGATORY NO. 14  
PAGE 1 OF 1  
FILED: SEPTEMBER 26, 2019**

- 14.** Please refer to witness Aponte's Exhibit JAA-1, Document No. 1. Explain why the net energy for load and seasonal peak demand forecasts provided does not match TECO's 2019 Ten-Year Site Plan.
- A.** The energy forecast shown in Exhibit JAA-1, Document No. 1 was approved in June 2019. It is standard practice for Tampa Electric to update its inputs at this time each year for use in the annual clause docket filings.

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 20190136-EI  
STAFF'S FIRST SET OF  
INTERROGATORIES  
INTERROGATORY NO. 15  
PAGE 1 OF 1  
FILED: SEPTEMBER 26, 2019**

- 15.** Please refer to witness Aponte's Exhibit JAA-1, Document No. 5. Explain why the CO<sub>2</sub> emission forecasts do not have an impact on system fuel savings/costs. As part of your response, please specify whether carbon costs (in dollars per ton) would impact the company's economic dispatch of generating units.
- A.** At this time, with no mandate on the regulation of CO<sub>2</sub> in effect, Tampa Electric does not use CO<sub>2</sub> emissions information as part of the economic dispatch decisions on its system. However, Tampa Electric does look at the impact on cost-effectiveness by including CO<sub>2</sub> costs after the economic dispatch.



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INTERROGATORIES  
INTERROGATORY NO. 16  
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- 16.** Referring to witness Aponte's direct testimony, page 15, line 21, through page 16, line 4, as well as Exhibit JAA-1, Document No. 5, for the following questions.
- a. Has the residual value been included in cost-effectiveness calculations for previous projects? If not, why is it included here?
  - b. Does the residual value appear in document No. 5? If so, where and how is it used?
- A.**
- a. No, as stated in witness Aponte's direct testimony the Third SoBRA is different from the company's first two SoBRAs because one of the projects (Little Manatee River) is being constructed on leased land. In order to make the solar sites comparable in the Third SoBRA cost-effectiveness, the company elected to include the residual value of land for Wimauma as a benefit in the cost-effectiveness calculation since it will have value beyond the useful life of the solar panels and related equipment. Although the company did not include the residual value of land for the solar sites in the First and Second SoBRA filings, doing so would have increased the cost-effectiveness savings in each filing.
  - b. Yes, the company reflected this benefit as a credit of the purchase cost at year 31, discounted to arrive at the net present value in the line labeled "RR of Land for Solar" on Document No. 5.

**TAMPA ELECTRIC COMPANY  
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**17.** Referring to witness Ashburn's direct testimony, page 10, lines 4 through 6, how were the fuel savings modeled?

**A.** A base case model was prepared without the third tranche of solar generation. Next, starting from this base case, a change case model was prepared with the third tranche, 149.3 MW of solar generation in service on January 1, 2020. Both the base case and change case were run with the production cost modeling software for an economic dispatch. The change case system fuel savings were then subtracted from the base case system fuel savings to arrive at the avoided system fuel cost.

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 20190136-EI  
STAFF'S FIRST SET OF  
INTERROGATORIES  
INTERROGATORY NO. 18  
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FILED: SEPTEMBER 26, 2019**

**18.** Please specify whether solar degradation included in your evaluation. If yes, explain how it was calculated. If not, explain why not.

**A.** Yes, a 0.4% degradation to the solar output after the first full year of service for each solar site is applied. Tampa Electric's solar sites are designed with more solar panels ( $MW_{DC}$ ) than the rating of the inverters ( $MW_{AC}$ ) in order to optimize the cost-effectiveness to customers. The output profile of the solar panels is degraded every year, creating a profile for each year. Since the degradation is applied to the output profile of the solar panels, the maximum  $MW_{AC}$  output is not reduced until the solar panels are degraded below the inverter ratings.

A F F I D A V I T

STATE OF FLORIDA            )  
  )  
COUNTY OF HILLSBOROUGH )

Before me the undersigned authority personally appeared William R. Ashburn who deposed and said that he is a Director, Pricing and Financial Analysis, Tampa Electric Company, and that the individual listed in Tampa Electric Company's response to Staff's First Set of Interrogatories, (No. 10) prepared or assisted with the responses to these interrogatories to the best of his information and belief.

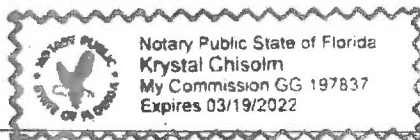
Dated at Tampa, Florida this 24<sup>th</sup> day of September, 2019.

*William R. Ashburn*

Sworn to and subscribed before me this 24<sup>th</sup> day of September, 2019.

*Krystal Chisolm*

My Commission expires \_\_\_\_\_



A F F I D A V I T

STATE OF FLORIDA            )  
  )  
COUNTY OF HILLSBOROUGH )

Before me the undersigned authority personally appeared Jose A. Aponte who deposed and said that he is a Manager, Generation Planning, Tampa Electric Company, and that the individual listed in Tampa Electric Company's response to Staff's First Set of Interrogatories, (Nos. 3-9, 11, 14-18) prepared or assisted with the responses to these interrogatories to the best of his information and belief.

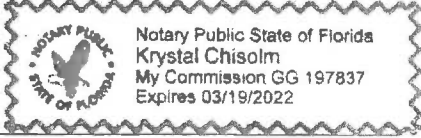
Dated at Tampa, Florida this 26 day of September, 2019.

Jose Aponte

Sworn to and subscribed before me this 26<sup>th</sup> day of September, 2019.

Krystal Chisolm

My Commission expires \_\_\_\_\_



The Affidavit of Witness Mark Ward, sponsoring answers to Interrogatories Nos. 1 and 2, and 12 and 13, is in the process of being prepared and will be promptly filed upon completion.

A F F I D A V I T

STATE OF FLORIDA            )  
  )  
COUNTY OF HILLSBOROUGH )

Before me the undersigned authority personally appeared Mark D. Ward who deposed and said that he is a Director, Renewable Energy, Tampa Electric Company, and that the individual listed in Tampa Electric Company's response to Staff's First Set of Interrogatories, (Nos. 1-2, 12-13) prepared or assisted with the responses to these interrogatories to the best of his information and belief.

Dated at Tampa, Florida this 1 day of October, 2019.

Mark D. Ward

Sworn to and subscribed before me this 1 day of October, 2019.

Krystal Chisolm

My Commission expires \_\_\_\_\_

