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January 23, 2020

VIA: ELECTRONIC FILING

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

Re: Environmental Cost Recovery Clause;
FPSC Docket No. 20200007-EI

Dear Mr. Teitzman:

Attached for electronic filing in the above docket is Tampa Electric Company's Solar Plant Operation Status Report for the month of December 2019, in accordance with the 2017 Amended and Restated Stipulation and Settlement Agreement in Docket No. 20170210-EI, as approved in Order No. PSC-2017-0456-S-EI, dated November 27, 2017.

Thank you for your assistance in connection with this matter.

Sincerely,


James D. Beasley

JDB/bmp
Attachment

cc: All Parties of Record (w/attachment)

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of the foregoing Solar Plant Operation Status Report, filed on behalf of Tampa Electric Company, has been furnished by electronic mail on this 23rd day of January 2020 to the following:

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ATTORNEY

**TAMPA ELECTRIC COMPANY
DOCKET NO. 20200007-EI
SOLAR PLANT OPERATION
STATUS REPORT
FILED: JANUARY 23, 2020**

**Tampa Electric Company
SoBRA Projects
December 2019**

Hour	System Retail Demand	Average Hourly Net Output (kWh)							
	(MW)	Payne Creek In Service	Balm In Service	Lithia In Service	Grange Hall In Service	Peace Creek In Service	Bonnie Mine In Service	Lake Hancock In Service	Wimauma Testing
1	1,720	(197)	(216)	(222)	(181)	(161)	(105)	(151)	(39)
2	1,627	(197)	(215)	(222)	(181)	(162)	(105)	(150)	(39)
3	1,576	(197)	(216)	(222)	(181)	(162)	(105)	(150)	(39)
4	1,559	(197)	(216)	(222)	(181)	(162)	(105)	(151)	(39)
5	1,584	(197)	(216)	(222)	(181)	(162)	(105)	(150)	(39)
6	1,691	(197)	(215)	(220)	(180)	(162)	(107)	(150)	(39)
7	1,856	(196)	(214)	(218)	(180)	(155)	(108)	(150)	(39)
8	1,949	2,480	2,212	2,138	1,667	1,429	758	1,326	(39)
9	2,024	18,007	16,924	17,725	12,888	10,541	6,964	9,476	(39)
10	2,092	29,882	28,344	28,848	23,042	19,762	12,445	17,133	(39)
11	2,151	32,602	32,390	32,948	26,088	22,552	14,449	20,549	(40)
12	2,189	34,976	33,842	35,185	28,503	22,859	14,557	20,405	(40)
13	2,220	34,805	35,748	36,817	28,825	22,521	14,592	20,988	(40)
14	2,245	32,838	32,560	34,080	27,718	20,609	13,462	19,591	(40)
15	2,259	30,491	30,700	33,333	26,136	19,499	13,680	18,656	(40)
16	2,269	25,601	25,185	27,037	19,948	15,793	10,559	14,650	(39)
17	2,276	11,720	12,270	12,856	8,713	6,698	5,331	6,524	(39)
18	2,337	448	370	479	203	104	206	118	(39)
19	2,426	(198)	(215)	(221)	(182)	(155)	(106)	(151)	(40)
20	2,373	(195)	(214)	(218)	(181)	(155)	(105)	(150)	(40)
21	2,289	(197)	(214)	(218)	(180)	(156)	(105)	(151)	(40)
22	2,174	(197)	(214)	(218)	(180)	(160)	(105)	(151)	(40)
23	2,024	(196)	(214)	(218)	(180)	(159)	(105)	(150)	(40)
24	1,860	(197)	(214)	(220)	(180)	(159)	(105)	(150)	(40)

**TAMPA ELECTRIC COMPANY
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**Tampa Electric Company
SoBRA Projects
December 2019**

	Net Capability (MW)	Net Generation ⁽¹⁾ (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation ⁽²⁾ (MWh)
1 Payne Creek	70.3	7,790	14.9	0.5	1,441,903
2 Balm	74.4	7,676	13.9	0.5	
3 Lithia	74.5	8,006	14.4	0.6	
4 Grange Hall	61.1	6,233	13.7	0.4	
5 Peace Creek	55.4	4,969	12.1	0.3	
6 Bonnie Mine	37.5	3,272	11.7	0.2	
7 Lake Hancock	49.5	4,571	12.4	0.3	
8 Wimauma	74.8	(2)	-	-	
9 Little Manatee River	-	-	-	-	
10 Total	497.5	42,515	13.5	2.9	

	Natural Gas Displaced (MCF)	Cost of NG ⁽³⁾ (\$/MCF)	Oil Displaced (Bbls)	Cost of Oil ⁽³⁾ (\$/Bbl)	Coal Displaced (Tons)	Cost of Coal ⁽³⁾ (\$/Ton)
11 Payne Creek	24,806	3.34	0	NA	1,876	73.35
12 Balm	24,443	3.34	0	NA	1,849	73.35
13 Lithia	56,329	3.34	0	NA	205	73.35
14 Grange Hall	43,854	3.34	0	NA	160	73.35
15 Peace Creek	34,961	3.34	0	NA	127	73.35
16 Bonnie Mine	23,021	3.34	0	NA	84	73.35
17 Lake Hancock	32,161	3.34	0	NA	117	73.35
18 Wimauma	-	-	-	-	-	-
19 Little Manatee River	-	-	-	-	-	-
20 Total	239,576		0		4,417	

	CO ₂ Reductions (Tons)	NO _x Reductions (Tons)	SO ₂ Reductions (Tons)	Hg Reductions (lb)
21 Payne Creek	3,739	0.9	0.8	0.002
22 Balm	3,684	0.8	0.8	0.002
23 Lithia	3,843	0.9	0.8	0.002
24 Grange Hall	2,992	0.7	0.6	0.002
25 Peace Creek	2,385	0.5	0.5	0.001
26 Bonnie Mine	1,571	0.4	0.3	0.001
27 Lake Hancock	2,194	0.5	0.5	0.001
28 Wimauma	-	-	-	-
29 Little Manatee River	-	-	-	-
30 Total	20,408	4.7	4.3	0.012

	O&M Cost (\$)	Carrying Cost ⁽⁴⁾ (\$)	Capital Cost ⁽⁵⁾ (\$)	Other Cost ⁽⁶⁾ (\$)	Fuel Cost (\$)	Total Cost of Generation (\$)
31 Payne Creek	140,379	599,199	267,846	(73,443)	0	933,981
32 Balm	151,916	697,661	252,851	(75,422)	0	1,027,006
33 Lithia	228,505	707,618	262,728	(20,753)	0	1,178,098
34 Grange Hall	120,382	559,805	262,322	(33,190)	0	909,319
35 Peace Creek	58,023	505,244	188,155	(23,693)	0	727,729
36 Bonnie Mine	60,413	356,592	142,026	(10,441)	0	548,590
37 Lake Hancock	85,628	467,248	174,898	(16,734)	0	711,040
38 Wimauma	-	800	-	-	-	800
39 Little Manatee River	61,043	-	-	-	-	61,043
40 Total	906,290	3,894,167	1,550,826	(253,676)	0	6,097,607

NA Not applicable

(1) Net Generation data represents a calendar month. Negative generation represents station service.

(2) Total System Net Generation from Schedule A3.

(3) Fuel Cost per unit data from Schedule A3.

(4) Carrying Cost data represents return on average net investment.

(5) Capital Cost data represents depreciation expense on net investment.

(6) Other Cost data represents dismantlement costs and amortization on ITC. Dismantlement cost estimates will not be available until an updated dismantlement study is completed.

**TAMPA ELECTRIC COMPANY
DOCKET NO. 20200007-EI
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**Tampa Electric Company
SoBRA Projects
Year-to-Date December 2019**

	Net Capability (MW)	Net Generation ⁽¹⁾ (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation ⁽²⁾ (MWh)
1 Payne Creek	70.3	125,417	20.4	0.6	19,464,414
2 Balm	74.4	137,401	21.1	0.7	
3 Lithia	74.5	124,071	19.0	0.6	
4 Grange Hall	61.1	105,555	19.8	0.5	
5 Peace Creek	55.4	88,786	21.8	0.5	
6 Bonnie Mine	37.5	67,686	21.9	0.3	
7 Lake Hancock	49.5	62,305	20.9	0.3	
8 Wimauma	74.8	(2)	-	-	
9 Little Manatee River	-	-	-	-	
10 Total	497.5	711,219	20.5	3.7	

	Natural Gas Displaced (MCF)	Cost of NG ⁽³⁾ (\$/MCF)	Oil Displaced (Bbls)	Cost of Oil ⁽³⁾ (\$/Bbl)	Coal Displaced (Tons)	Cost of Coal ⁽³⁾ (\$/Ton)
11 Payne Creek	399,375	3.48	0	NA	30,208	79.37
12 Balm	437,537	3.48	0	NA	33,095	79.37
13 Lithia	872,942	3.48	0	NA	3,175	79.37
14 Grange Hall	742,667	3.48	0	NA	2,701	79.37
15 Peace Creek	624,683	3.48	0	NA	2,272	79.37
16 Bonnie Mine	476,227	3.48	0	NA	1,732	79.37
17 Lake Hancock	438,367	3.48	0	NA	1,594	79.37
18 Wimauma	-	-	-	-	-	-
19 Little Manatee River	-	-	-	-	-	-
20 Total	3,991,798		0		74,778	

	CO ₂ Reductions (Tons)	NO _x Reductions (Tons)	SO ₂ Reductions (Tons)	Hg Reductions (lb)
21 Payne Creek	60,200	13.8	12.5	0.036
22 Balm	65,952	15.1	13.7	0.040
23 Lithia	59,554	13.6	12.4	0.036
24 Grange Hall	50,666	11.6	10.6	0.031
25 Peace Creek	42,617	9.8	8.9	0.026
26 Bonnie Mine	32,489	7.4	6.8	0.020
27 Lake Hancock	29,906	6.9	6.2	0.018
28 Wimauma	-	-	-	-
29 Little Manatee River	-	-	-	-
30 Total	341,386	78.2	71.1	0.206

	O&M Cost (\$)	Carrying Cost ⁽⁴⁾ (\$)	Capital Cost ⁽⁵⁾ (\$)	Other Cost ⁽⁶⁾ (\$)	Fuel Cost (\$)	Total Cost of Generation (\$)
31 Payne Creek	310,592	7,175,869	3,149,548	(881,318)	0	9,754,691
32 Balm	342,584	8,335,569	3,074,756	(905,060)	0	10,847,848
33 Lithia	604,851	8,135,563	2,928,820	(852,900)	0	10,816,333
34 Grange Hall	244,216	6,368,863	2,668,423	(697,634)	0	8,583,868
35 Peace Creek	136,117	4,778,850	1,676,291	(484,107)	0	6,107,151
36 Bonnie Mine	212,180	3,775,626	1,434,511	(430,461)	0	4,991,855
37 Lake Hancock	198,281	3,476,256	1,139,527	(396,513)	0	4,417,551
38 Wimauma	-	800	-	-	-	800
39 Little Manatee River	374,513	-	-	-	-	374,513
40 Total	2,423,334	42,047,396	16,071,876	(4,647,994)	0	55,894,612

NA Not applicable

(1) Net Generation data represents a calendar month. Negative generation represents station service.

(2) Total System Net Generation from Schedule A3.

(3) Fuel Cost per unit data from Schedule A3.

(4) Carrying Cost data represents return on average net investment.

(5) Capital Cost data represents depreciation expense on net investment.

(6) Other Cost data represents dismantlement costs and amortization on ITC. Dismantlement cost estimates will not be available until an updated dismantlement study is completed.