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January 25, 2022

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. 20220007-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 2021, 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,



Malcolm N. Means

MNM/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 25th day of January 2022 to the following:

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ATTORNEY

**Tampa Electric Company
SoBRA Projects
December 2021**

Hour	System Retail Demand	Average Hourly Net Output (kWh)									
	(MW)	Payne Creek	Balm	Lithia	Grange Hall	Peace Creek	Bonnie Mine	Lake Hancock	Wimauma	Little Manatee River	Durrance
		In Service	In Service	In Service	In Service	In Service	In Service	In Service	In Service	In Service	In Service
1	1,789	(193)	(220)	(220)	(176)	(167)	(100)	(205)	(87)	(231)	(110)
2	1,687	(193)	(222)	(220)	(178)	(169)	(100)	(204)	(90)	(232)	(109)
3	1,625	(194)	(222)	(220)	(179)	(169)	(100)	(203)	(91)	(232)	(109)
4	1,599	(194)	(221)	(221)	(178)	(169)	(100)	(201)	(92)	(233)	(108)
5	1,619	(194)	(222)	(220)	(179)	(169)	(100)	(201)	(92)	(233)	(108)
6	1,697	(193)	(221)	(220)	(177)	(168)	(99)	(195)	(92)	(233)	(107)
7	1,840	(193)	(219)	(219)	(177)	(166)	(98)	(177)	(92)	(231)	(106)
8	1,955	2,422	1,950	2,710	1,590	1,329	882	1,346	1,200	1,196	1,505
9	2,059	20,549	19,436	23,207	15,111	14,175	9,260	13,525	9,177	11,246	11,440
10	2,155	33,083	32,571	34,551	27,476	26,169	16,291	23,168	14,914	19,037	21,534
11	2,241	36,763	37,848	39,581	31,928	28,554	18,163	25,078	17,108	21,740	25,833
12	2,318	40,340	40,975	42,714	34,663	30,265	19,565	26,702	18,962	24,083	29,786
13	2,409	40,175	40,264	43,232	34,615	30,297	18,713	26,877	19,600	23,979	30,112
14	2,494	39,982	40,243	41,215	34,409	29,955	19,167	26,116	19,201	23,507	29,967
15	2,555	38,827	38,135	39,711	31,687	28,564	18,812	26,123	17,789	21,762	27,371
16	2,590	34,218	34,436	35,034	27,282	25,014	16,011	23,014	15,047	20,265	21,100
17	2,586	17,179	17,306	19,913	13,885	11,814	7,004	9,996	7,834	11,367	9,680
18	2,593	814	945	1,203	576	411	341	360	667	482	735
19	2,623	(255)	(305)	(300)	(236)	(216)	(97)	(308)	(85)	(279)	(110)
20	2,525	(192)	(225)	(220)	(179)	(166)	(98)	(248)	(86)	(232)	(109)
21	2,411	(192)	(224)	(220)	(177)	(166)	(99)	(242)	(86)	(231)	(110)
22	2,277	(192)	(221)	(220)	(177)	(166)	(100)	(233)	(86)	(231)	(109)
23	2,116	(193)	(218)	(219)	(176)	(166)	(99)	(221)	(86)	(230)	(109)
24	1,944	(192)	(218)	(219)	(176)	(166)	(99)	(214)	(86)	(231)	(109)

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**TAMPA ELECTRIC COMPANY
DOCKET NO. 20210007-EI
SOLAR PLANT OPERATION
STATUS REPORT
FILED: JANUARY 25, 2022**

**Tampa Electric Company
SoBRA Projects
December 2021**

	Net Capability (MW)	Net Generation ⁽¹⁾ (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation ⁽²⁾ (MWh)
1 Payne Creek	70.1	9,355	17.9	0.6	1,540,807
2 Balm	74.2	9,336	16.9	0.6	
3 Lithia	74.3	9,923	18.0	0.6	
4 Grange Hall	60.8	7,777	17.2	0.5	
5 Peace Creek	54.8	6,953	17.1	0.5	
6 Bonnie Mine	37.4	4,431	15.9	0.3	
7 Lake Hancock	49.4	6,182	16.8	0.4	
8 Wimauma	74.7	4,349	7.8	0.3	
9 Little Manatee River	74.3	5,444	9.8	0.4	
10 Durrance	59.8	6,455	14.5	0.4	
11 Total	629.8	70,205	15.0	4.6	

	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)
12 Payne Creek	30,719	5.98	0	NA	2,232	122.87
13 Balm	30,656	5.98	0	NA	2,227	122.87
14 Lithia	53,547	5.98	0	NA	1,126	122.87
15 Grange Hall	41,967	5.98	0	NA	883	122.87
16 Peace Creek	37,520	5.98	0	NA	789	122.87
17 Bonnie Mine	23,911	5.98	0	NA	503	122.87
18 Lake Hancock	33,360	5.98	0	NA	702	122.87
19 Wimauma	29,227	5.98	0	NA	207	122.87
20 Little Manatee River	36,585	5.98	0	NA	259	122.87
21 Durrance	45,836	5.98	0	NA	196	122.87
22 Total	363,328		0		9,124	

	CO ₂ Reductions (Tons)	NOx Reductions (Tons)	SO ₂ Reductions (Tons)	Hg Reductions (lb)
23 Payne Creek	4,252	0.8	0.6	0.002
24 Balm	4,243	0.8	0.6	0.002
25 Lithia	4,510	0.8	0.6	0.002
26 Grange Hall	3,535	0.7	0.5	0.001
27 Peace Creek	3,160	0.6	0.5	0.001
28 Bonnie Mine	2,014	0.4	0.3	0.001
29 Lake Hancock	2,810	0.5	0.4	0.001
30 Wimauma	1,977	0.4	0.3	0.001
31 Little Manatee River	2,474	0.5	0.4	0.001
32 Durrance	2,934	0.5	0.4	0.001
33 Total	31,908	6.0	4.6	0.013

	O&M Cost (\$)	Carrying Cost ⁽⁴⁾ (\$)	Capital Cost ⁽⁵⁾ (\$)	Other Cost ⁽⁶⁾ (\$)	Fuel Cost (\$)	Total Cost of Generation (\$)
34 Payne Creek	31,196	566,611	260,219	(73,443)	0	784,583
35 Balm	49,512	666,858	257,229	(75,422)	0	898,177
36 Lithia	52,114	675,543	264,160	(71,155)	0	920,661
37 Grange Hall	49,063	533,474	220,862	(58,232)	0	745,167
38 Peace Creek	35,181	504,489	194,262	(51,400)	0	682,532
39 Bonnie Mine	18,031	345,490	144,917	(38,654)	0	469,783
40 Lake Hancock	46,203	456,440	178,500	(46,710)	0	634,432
41 Wimauma	33,603	728,445	274,293	(75,766)	0	960,575
42 Little Manatee River	96,707	658,084	291,507	(85,115)	0	961,183
43 Durrance	46,169	591,558	225,919	(55,065)	0	808,581
44 Total	457,778	5,726,992	2,311,868	(630,963)	0	7,865,675

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. 20210007-EI
SOLAR PLANT OPERATION
STATUS REPORT
FILED: JANUARY 25, 2022**

**Tampa Electric Company
SoBRA Projects
Year-to-Date December 2021**

	Net Capability (MW)	Net Generation ⁽¹⁾ (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation ⁽²⁾ (MWh)
1 Payne Creek	70.1	132,614	21.6	0.7	18,736,601
2 Balm	74.2	149,124	22.9	0.8	
3 Lithia	74.3	152,613	23.4	0.8	
4 Grange Hall	60.8	122,960	23.1	0.7	
5 Peace Creek	54.8	110,975	23.1	0.6	
6 Bonnie Mine	37.4	71,674	21.9	0.4	
7 Lake Hancock	49.4	94,628	21.9	0.5	
8 Wimauma	74.7	135,768	20.7	0.7	
9 Little Manatee River	74.3	130,717	20.1	0.7	
10 Durrance	59.8	103,537	19.8	0.6	
11 Total	629.8	1,204,610	21.8	6.4	

	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)
12 Payne Creek	435,460	4.94	0	NA	31,638	75.91
13 Balm	489,673	4.94	0	NA	35,577	75.91
14 Lithia	823,544	4.94	0	NA	17,321	75.91
15 Grange Hall	663,528	4.94	0	NA	13,955	75.91
16 Peace Creek	598,853	4.94	0	NA	12,595	75.91
17 Bonnie Mine	386,774	4.94	0	NA	8,135	75.91
18 Lake Hancock	510,640	4.94	0	NA	10,740	75.91
19 Wimauma	912,403	4.94	0	NA	6,455	75.91
20 Little Manatee River	878,459	4.94	0	NA	6,215	75.91
21 Durrance	735,195	4.94	0	NA	3,150	75.91
22 Total	6,434,530		0		145,781	

	CO ₂ Reductions (Tons)	NO _x Reductions (Tons)	SO ₂ Reductions (Tons)	Hg Reductions (lb)
23 Payne Creek	60,285	11.4	8.5	0.025
24 Balm	67,794	12.8	9.5	0.028
25 Lithia	69,379	13.1	9.8	0.028
26 Grange Hall	55,899	10.6	7.9	0.023
27 Peace Creek	50,451	9.6	7.1	0.021
28 Bonnie Mine	32,584	6.2	4.6	0.013
29 Lake Hancock	43,020	8.2	6.0	0.018
30 Wimauma	61,725	11.7	8.6	0.025
31 Little Manatee River	59,428	11.3	8.3	0.024
32 Durrance	47,069	8.9	6.6	0.019
33 Total	547,633	103.8	76.9	0.223

	O&M Cost (\$)	Carrying Cost ⁽⁴⁾ (\$)	Capital Cost ⁽⁵⁾ (\$)	Other Cost ⁽⁶⁾ (\$)	Fuel Cost (\$)	Total Cost of Generation (\$)
34 Payne Creek	482,298	6,824,749	3,105,331	(881,318)	0	9,531,060
35 Balm	562,006	8,030,880	3,074,446	(905,060)	0	10,762,272
36 Lithia	628,897	8,138,084	3,157,960	(853,864)	0	11,071,077
37 Grange Hall	506,244	6,424,463	2,636,666	(698,788)	0	8,868,585
38 Peace Creek	397,503	6,069,189	2,318,954	(616,801)	0	8,168,845
39 Bonnie Mine	301,323	4,143,140	1,722,084	(463,853)	0	5,702,694
40 Lake Hancock	481,834	5,407,943	2,125,551	(560,524)	0	7,454,804
41 Wimauma	442,625	4,267,120	1,451,406	(909,194)	0	5,251,957
42 Little Manatee River	1,046,589	2,586,061	1,117,923	(1,021,375)	0	3,729,198
43 Durrance	197,440	6,762,630	2,485,913	(660,783)	0	8,785,200
44 Total	5,046,759	58,654,259	23,196,234	(7,571,560)	0	79,325,692

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.