

**AUSLEY McMULLEN**

ATTORNEYS AND COUNSELORS AT LAW

123 SOUTH CALHOUN STREET  
P.O. BOX 391 (ZIP 32302)  
TALLAHASSEE, FLORIDA 32301  
(850) 224-9115 FAX (850) 222-7560

November 20, 2019

**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. 20190007-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 October 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/pp  
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 20th day of October 2019 to the following:

Mr. Charles W. Murphy  
Office of the General Counsel  
Florida Public Service Commission  
2540 Shumard Oak Boulevard  
Tallahassee, FL 32399-0850  
[cmurphy@psc.state.fl.us](mailto:cmurphy@psc.state.fl.us)

Mr. Russell A. Badders  
Vice President & Associate General Counsel  
Gulf Power Company  
One Energy Place  
Pensacola, FL 32520-0100  
[Russell.Badders@nexteraenergy.com](mailto:Russell.Badders@nexteraenergy.com)

Mr. Matthew R. Bernier  
Duke Energy Florida, Inc.  
106 East College Avenue, Suite 800  
Tallahassee, FL 32301-7740  
[matthew.bernier@duke-energy.com](mailto:matthew.bernier@duke-energy.com)

Mr. Steven R. Griffin  
Beggs & Lane  
Post Office Box 12950  
Pensacola, FL 32591  
[srg@beggslane.com](mailto:srg@beggslane.com)

Ms. Dianne M. Triplett  
Duke Energy Florida, Inc.  
299 First Avenue North  
St. Petersburg, FL 33701  
[dianne.triplett@duke-energy.com](mailto:dianne.triplett@duke-energy.com)  
[FLRegulatoryLegal@duke-energy.com](mailto:FLRegulatoryLegal@duke-energy.com)

Ms. Holly Henderson  
Senior Manager Regulatory Affairs  
Gulf Power Company  
215 South Monroe Street, Suite 618  
Tallahassee, FL 32301  
[Holly.Henderson@nexteraenergy.com](mailto:Holly.Henderson@nexteraenergy.com)

Ms. Maria Moncada  
Senior Attorney  
Florida Power & Light Company  
700 Universe Boulevard  
Juno Beach, FL 33408-0420  
[maria.moncada@fpl.com](mailto:maria.moncada@fpl.com)

Ms. Patricia Christensen  
Office of Public Counsel  
111 West Madison Street – Room 812  
Tallahassee, FL 32399-1400  
[christensen.patty@leg.state.fl.us](mailto:christensen.patty@leg.state.fl.us)


Mr. Kenneth Hoffman  
Vice President, Regulatory Relations  
Florida Power & Light Company  
215 South Monroe Street, Suite 810  
Tallahassee, FL 32301-1858  
[ken.hoffman@fpl.com](mailto:ken.hoffman@fpl.com)

Mr. Jon C. Moyle, Jr.  
Moyle Law Firm  
118 N. Gadsden Street  
Tallahassee, FL 32301  
[jmoyle@moylelaw.com](mailto:jmoyle@moylelaw.com)  
[mqualls@moyle.law.com](mailto:mqualls@moyle.law.com)

Mr. James W. Brew  
Ms. Laura A. Wynn  
Stone Mattheis Xenopoulos & Brew, PC  
1025 Thomas Jefferson Street, NW  
Eighth Floor, West Tower  
Washington, D.C. 20007-5201  
[jbrew@smxblaw.com](mailto:jbrew@smxblaw.com)  
[laura.wynn@smxblaw.com](mailto:laura.wynn@smxblaw.com)

Mr. George Cavros  
Southern Alliance for Clean Energy  
120 E. Oakland Park Blvd., Suite 105  
Fort Lauderdale, FL 33334  
[george@carvos-law.com](mailto:george@carvos-law.com)

Ms. Diana A. Csank  
Sierra Club  
50 F St. NW, Suite 800  
Washington, D.C. 20001  
[Diana.csank@sierraclub.org](mailto:Diana.csank@sierraclub.org)

  
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ATTORNEY

Tampa Electric Company  
SoBRA Projects  
October 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
1	2,170	(192)	(211)	(226)	(184)	(159)	(110)	(145)
2	2,028	(193)	(212)	(228)	(184)	(160)	(110)	(145)
3	1,935	(192)	(212)	(228)	(184)	(160)	(110)	(145)
4	1,877	(192)	(212)	(228)	(185)	(161)	(110)	(145)
5	1,867	(192)	(213)	(227)	(186)	(161)	(110)	(146)
6	1,951	(196)	(212)	(227)	(185)	(161)	(110)	(145)
7	2,098	(195)	(212)	(226)	(185)	(160)	(110)	(145)
8	2,163	638	515	180	380	485	146	460
9	2,235	18,188	17,617	17,898	13,357	12,000	7,461	10,649
10	2,429	40,772	39,755	39,787	31,925	27,553	17,508	22,980
11	2,651	43,836	43,649	42,101	34,754	32,544	20,928	26,034
12	2,852	45,597	42,383	41,709	35,415	33,141	21,607	27,530
13	3,030	45,781	43,057	41,899	37,129	32,400	22,160	27,717
14	3,186	42,255	45,522	40,690	36,853	31,366	21,501	28,252
15	3,297	40,874	39,587	37,825	33,944	31,110	18,963	27,487
16	3,375	38,837	38,378	36,515	32,644	29,797	17,668	25,921
17	3,398	37,285	33,151	33,683	30,194	25,436	15,630	21,846
18	3,345	24,221	24,291	24,846	18,380	15,235	9,857	12,393
19	3,225	4,100	4,552	4,675	2,944	2,484	1,737	2,203
20	3,159	(352)	(372)	(376)	(201)	(193)	(104)	(175)
21	3,015	(189)	(211)	(227)	(186)	(160)	(110)	(147)
22	2,811	(185)	(210)	(227)	(184)	(160)	(110)	(146)
23	2,580	(184)	(211)	(227)	(184)	(159)	(110)	(145)
24	2,355	(185)	(211)	(224)	(184)	(159)	(110)	(145)

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 20190007-EI  
SOLAR PLANT OPERATION  
STATUS REPORT  
FILED: NOVEMBER 20, 2019**

**Tampa Electric Company  
SoBRA Projects  
October 2019**

	Net Capability (MW)	Net Generation <sup>(1)</sup> (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation <sup>(2)</sup> (MWh)
1 Payne Creek	70.3	11,794	22.5	0.7	1,733,549
2 Balm	74.4	11,476	20.7	0.7	
3 Lithia	74.5	11,143	20.1	0.6	
4 Grange Hall	61.1	9,475	20.8	0.5	
5 Peace Creek	55.4	8,420	20.4	0.5	
6 Bonnie Mine	37.5	5,390	19.3	0.3	
7 Lake Hancock	49.5	7,183	19.5	0.4	
8 Little Manatee River	-	-	-	-	-
9 Total	422.7	64,881	20.6	3.7	

	Natural Gas Displaced (MCF)	Cost of NG <sup>(3)</sup> (\$/MCF)	Oil Displaced (Bbls)	Cost of Oil <sup>(3)</sup> (\$/Bbl)	Coal Displaced (Tons)	Cost of Coal <sup>(3)</sup> (\$/Ton)
10 Payne Creek	37,557	3.27	0	NA	2,841	0.00
11 Balm	36,544	3.27	0	NA	2,764	0.00
12 Lithia	78,400	3.27	0	NA	285	0.00
13 Grange Hall	66,664	3.27	0	NA	242	0.00
14 Peace Creek	59,242	3.27	0	NA	215	0.00
15 Bonnie Mine	37,923	3.27	0	NA	138	0.00
16 Lake Hancock	50,538	3.27	0	NA	184	0.00
17 Little Manatee River	-	-	-	-	-	-
18 Total	366,868		0		6,670	

	CO <sub>2</sub> Reductions (Tons)	NO <sub>x</sub> Reductions (Tons)	SO <sub>2</sub> Reductions (Tons)	Hg Reductions (lb)
19 Payne Creek	5,661	1.3	1.2	0.003
20 Balm	5,508	1.3	1.1	0.003
21 Lithia	5,349	1.2	1.1	0.003
22 Grange Hall	4,548	1.0	0.9	0.003
23 Peace Creek	4,042	0.9	0.8	0.002
24 Bonnie Mine	2,587	0.6	0.5	0.002
25 Lake Hancock	3,448	0.8	0.7	0.002
26 Little Manatee River	-	-	-	-
27 Total	31,143	7.1	6.5	0.019

	O&M Cost (\$)	Carrying Cost <sup>(4)</sup> (\$)	Capital Cost <sup>(5)</sup> (\$)	Other Cost <sup>(6)</sup> (\$)	Fuel Cost (\$)	Total Cost of Generation (\$)
28 Payne Creek	48,727	601,634	269,758	(73,443)	0	846,676
29 Balm	55,348	699,309	254,675	(75,422)	0	933,910
30 Lithia	120,658	710,693	263,232	(75,650)	0	1,018,933
31 Grange Hall	78,087	562,959	262,313	(60,404)	0	842,955
32 Peace Creek	61,049	506,751	187,829	(54,166)	0	701,463
33 Bonnie Mine	45,615	357,830	141,048	(41,290)	0	503,204
34 Lake Hancock	66,730	467,782	172,828	(50,637)	0	656,702
35 Little Manatee River	0	-	-	-	-	0
36 Total	476,215	3,906,958	1,551,683	(431,012)	0	5,503,844

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. No coal burned in October.

(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  
SoBRA Projects  
Year-to-Date October 2019

	Net Capability (MW)	Net Generation <sup>(1)</sup> (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation <sup>(2)</sup> (MWh)
1 Payne Creek	70.3	107,957	21.0	0.6	16,653,930
2 Balm	74.4	119,828	22.1	0.7	
3 Lithia	74.5	106,028	19.5	0.6	
4 Grange Hall	61.1	91,500	20.6	0.5	
5 Peace Creek	55.4	77,061	23.7	0.5	
6 Bonnie Mine	37.5	60,948	24.0	0.4	
7 Lake Hancock	49.5	51,540	22.8	0.3	
8 Little Manatee River	-	-	-	-	-
9 Total	422.7	614,862	21.6	3.7	

	Natural Gas Displaced (MCF)	Cost of NG <sup>(3)</sup> (\$/MCF)	Oil Displaced (Bbls)	Cost of Oil <sup>(3)</sup> (\$/Bbl)	Coal Displaced (Tons)	Cost of Coal <sup>(3)</sup> (\$/Ton)
10 Payne Creek	343,776	3.49	0	NA	26,003	80.88
11 Balm	381,578	3.49	0	NA	28,862	80.88
12 Lithia	745,995	3.49	0	NA	2,713	80.88
13 Grange Hall	643,778	3.49	0	NA	2,341	80.88
14 Peace Creek	542,188	3.49	0	NA	1,972	80.88
15 Bonnie Mine	428,820	3.49	0	NA	1,560	80.88
16 Lake Hancock	362,627	3.49	0	NA	1,319	80.88
17 Little Manatee River	-	-	-	-	-	-
18 Total	3,448,761		0		64,770	

	CO <sub>2</sub> Reductions (Tons)	NO <sub>x</sub> Reductions (Tons)	SO <sub>2</sub> Reductions (Tons)	Hg Reductions (lb)
19 Payne Creek	51,819	11.9	10.8	0.031
20 Balm	57,517	13.2	12.0	0.035
21 Lithia	50,893	11.7	10.6	0.031
22 Grange Hall	43,920	10.1	9.2	0.027
23 Peace Creek	36,989	8.5	7.7	0.022
24 Bonnie Mine	29,255	6.7	6.1	0.018
25 Lake Hancock	24,739	5.7	5.2	0.015
26 Little Manatee River	-	-	-	-
27 Total	295,134	67.6	61.5	0.178

	O&M Cost (\$)	Carrying Cost <sup>(4)</sup> (\$)	Capital Cost <sup>(5)</sup> (\$)	Other Cost <sup>(6)</sup> (\$)	Fuel Cost (\$)	Total Cost of Generation (\$)
28 Payne Creek	158,390	5,976,677	2,613,970	(734,432)	0	8,014,605
29 Balm	177,262	6,940,047	2,569,126	(754,217)	0	8,932,218
30 Lithia	373,496	6,719,018	2,403,376	(756,497)	0	8,739,393
31 Grange Hall	123,356	5,247,888	2,143,675	(604,040)	0	6,910,879
32 Peace Creek	77,751	3,767,800	1,300,093	(406,247)	0	4,739,396
33 Bonnie Mine	141,802	3,062,098	1,150,486	(378,731)	0	3,975,655
34 Lake Hancock	109,059	2,542,348	791,735	(329,142)	0	3,113,999
35 Little Manatee River	188,011	-	-	-	-	188,011
36 Total	1,349,127	34,255,876	12,972,461	(3,963,307)	0	44,614,158

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.