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June 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

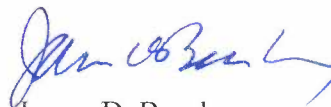
Dear Mr. Teitzman:

Attached for electronic filing in the above docket is Tampa Electric Company's Solar Plant Operation Status Report for the month of May 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.

Also attached are revised Solar Plant Operations Status Reports for the months of January through April 2019 with the revisions highlighted in green.

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 June 2019 to the following:

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ATTORNEY

Tampa Electric Company
SoBRA Projects
May 2019

Hour	System Retail Demand (MW)	Average Hourly Net Output (kWh)					
		Payne Creek In Service	Balm In Service	Lithia In Service	Grange Hall In Service	Peace Creek In Service	Bonnie Mine In Service
1	2,256	(157)	(176)	(101)	(152)	(75)	(100)
2	2,085	(157)	(176)	(101)	(152)	(75)	(100)
3	1,969	(159)	(175)	(101)	(152)	(74)	(100)
4	1,897	(159)	(176)	(101)	(152)	(74)	(100)
5	1,874	(157)	(175)	(100)	(152)	(73)	(100)
6	1,932	(162)	(176)	(100)	(152)	(74)	(100)
7	2,052	(91)	(106)	(61)	(52)	29	(30)
8	2,128	8,026	8,354	3,397	7,442	7,178	6,278
9	2,293	24,968	27,147	9,476	24,005	24,804	20,870
10	2,526	32,980	36,669	12,565	34,654	32,299	28,339
11	2,770	36,535	39,750	13,243	37,665	37,369	29,333
12	3,009	40,276	43,106	13,703	40,375	39,152	28,981
13	3,224	40,115	42,824	13,623	40,931	38,275	28,329
14	3,382	39,200	41,478	13,304	39,269	38,095	27,899
15	3,499	36,915	39,923	13,879	38,281	35,389	27,309
16	3,593	37,417	36,802	13,057	36,545	35,608	27,457
17	3,648	35,781	36,353	12,039	33,588	35,050	26,516
18	3,648	31,693	33,782	11,169	30,057	32,227	24,759
19	3,551	20,026	25,416	8,935	21,116	19,478	15,460
20	3,376	4,843	6,345	2,468	5,607	4,386	3,630
21	3,243	(322)	(340)	(158)	(193)	(111)	(67)
22	3,052	(161)	(174)	(107)	(157)	(75)	(101)
23	2,777	(157)	(173)	(105)	(157)	(74)	(100)
24	2,507	(157)	(174)	(105)	(157)	(75)	(100)

Tampa Electric Company
SoBRA Projects
May 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	12,009	23.0	0.6	1,929,872
2 Balm	74.4	12,908	23.3	0.7	
3 Lithia	74.5	4,335	7.8	0.2	
4 Grange Hall	61.1	12,026	26.5	0.6	
5 Peace Creek	55.4	11,736	28.5	0.6	
6 Bonnie Mine	37.5	9,119	32.7	0.5	
7 Lake Hancock	49.5	11,242	30.5	0.6	
8 Total	422.7	73,375	23.3	3.8	

	Natural Gas Displaced (MCF)	Cost of NG ⁽²⁾ (\$/MCF)	Oil Displaced (Bbls)	Cost of Oil ⁽²⁾ (\$/Bbl)	Coal Displaced (Tons)	Cost of Coal (\$/Ton)
9 Payne Creek	38,241	3.40	0	NA	2,893	76.95
10 Balm	41,104	3.40	0	NA	3,109	76.95
11 Lithia	30,500	3.40	0	NA	111	76.95
12 Grange Hall	84,613	3.40	0	NA	308	76.95
13 Peace Creek	82,572	3.40	0	NA	300	76.95
14 Bonnie Mine	64,160	3.40	0	NA	233	76.95
15 Lake Hancock	79,097	3.40	0	NA	288	76.95
16 Total	420,287		0		7,242	

	CO ₂ Reductions (Tons)	NO _x Reductions (Tons)	SO ₂ Reductions (Tons)	Hg Reductions (lb)
17 Payne Creek	5,764	1.3	1.2	0.003
18 Balm	6,196	1.4	1.3	0.004
19 Lithia	2,081	0.5	0.4	0.001
20 Grange Hall	5,772	1.3	1.2	0.003
21 Peace Creek	5,633	1.3	1.2	0.003
22 Bonnie Mine	4,377	1.0	0.9	0.003
23 Lake Hancock	5,396	1.2	1.1	0.003
24 Total	35,220	8.1	7.3	0.021

	O&M Cost (\$)	Carrying Cost ⁽⁴⁾ (\$)	Capital Cost ⁽⁵⁾ (\$)	Other Cost ⁽⁶⁾ (\$)	Fuel Cost (\$)	Total Cost of Generation (\$)
25 Payne Creek	11,400	601,909	260,847	(73,443)	0	800,713
26 Balm	12,849	699,241	257,467	(75,422)	0	894,135
27 Lithia	14,863	711,784	268,743	(77,917)	0	917,473
28 Grange Hall	218	562,938	253,423	(54,292)	0	762,288
29 Peace Creek	0	506,412	185,991	(54,958)	0	637,445
30 Bonnie Mine	9,753	358,226	143,351	(42,411)	0	468,919
31 Lake Hancock	0	310,373	105,962	(50,637)	0	365,698
32 Total	49,083	3,750,883	1,475,784	(429,081)	0	4,846,670

NA Not applicable

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

(2) Total System Net Generation from Schedule A3. Fuel Cost per unit data 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
SoBRA Projects
Year-to-Date May 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	55,996	22.0	0.7	7,685,643
2 Balm	74.4	59,609	22.1	0.8	
3 Lithia	74.5	54,423	20.2	0.7	
4 Grange Hall	61.1	43,660	19.8	0.6	
5 Peace Creek	55.4	34,550	28.2	0.4	
6 Bonnie Mine	37.5	29,687	25.6	0.4	
7 Lake Hancock	49.5	13,045	29.7	0.2	
8 Total	422.7	290,970	22.4	3.8	

	Natural Gas Displaced (MCF)	Cost of NG ⁽²⁾ (\$/MCF)	Oil Displaced (Bbls)	Cost of Oil ⁽²⁾ (\$/Bbl)	Coal Displaced (Tons)	Cost of Coal ⁽³⁾ (\$/Ton)
9 Payne Creek	178,313	3.74	0	NA	13,487	79.52
10 Balm	189,818	3.74	0	NA	14,358	79.52
11 Lithia	382,911	3.74	0	NA	1,393	79.52
12 Grange Hall	307,184	3.74	0	NA	1,117	79.52
13 Peace Creek	243,088	3.74	0	NA	884	79.52
14 Bonnie Mine	208,873	3.74	0	NA	760	79.52
15 Lake Hancock	91,782	3.74	0	NA	334	79.52
16 Total	1,601,968		0		32,333	

	CO ₂ Reductions (Tons)	NO _x Reductions (Tons)	SO ₂ Reductions (Tons)	Hg Reductions (lb)
17 Payne Creek	26,878	6.2	5.6	0.016
18 Balm	28,612	6.6	6.0	0.017
19 Lithia	26,123	6.0	5.4	0.016
20 Grange Hall	20,957	4.8	4.4	0.013
21 Peace Creek	16,584	3.8	3.5	0.010
22 Bonnie Mine	14,250	3.3	3.0	0.009
23 Lake Hancock	6,262	1.4	1.3	0.004
24 Total	139,666	32.0	29.1	0.084

	O&M Cost (\$)	Carrying Cost ⁽⁴⁾ (\$)	Capital Cost ⁽⁵⁾ (\$)	Other Cost ⁽⁶⁾ (\$)	Fuel Cost (\$)	Total Cost of Generation (\$)
25 Payne Creek	57,000	2,999,772	1,298,570	(367,216)	0	3,988,126
26 Balm	65,431	3,481,180	1,280,573	(377,109)	0	4,450,076
27 Lithia	44,588	3,198,588	1,074,959	(389,585)	0	3,928,550
28 Grange Hall	218	2,457,175	974,627	(271,460)	0	3,160,561
29 Peace Creek	0	1,250,418	365,231	(137,396)	0	1,478,253
30 Bonnie Mine	20,467	1,275,914	429,620	(176,208)	0	1,549,793
31 Lake Hancock	0	580,443	105,994	(75,956)	0	610,481
32 Total	187,705	15,243,490	5,529,574	(1,794,928)	0	19,165,840

NA Not applicable

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

(2) Total System Net Generation from Schedule A3. Fuel Cost per unit data 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.

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Tampa Electric Company
SoBRA Projects
January 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 Testing	Bonnie Mine In Service
1	1,781	(181)	(217)	(193)	(112)	(31)	(55)
2	1,720	(181)	(217)	(192)	(112)	(31)	(55)
3	1,694	(181)	(217)	(191)	(112)	(31)	(55)
4	1,696	(182)	(217)	(191)	(112)	(31)	(55)
5	1,748	(180)	(217)	(192)	(112)	(31)	(55)
6	1,901	(180)	(216)	(191)	(112)	(31)	(55)
7	2,123	(180)	(216)	(190)	(111)	(31)	(54)
8	2,230	1,093	1,250	1,753	101	(31)	(0)
9	2,263	14,061	18,197	20,688	2,239	(31)	304
10	2,263	26,435	34,944	34,613	4,204	(31)	646
11	2,249	29,723	40,579	39,232	5,442	(30)	1,086
12	2,224	32,600	43,091	41,696	6,952	(30)	1,603
13	2,200	34,045	43,315	41,295	8,165	(30)	2,436
14	2,181	33,993	42,590	39,959	8,513	(30)	2,858
15	2,164	32,943	40,902	39,148	8,496	(30)	3,028
16	2,159	31,983	37,512	34,946	7,157	(30)	3,239
17	2,175	21,589	24,486	25,573	4,955	(30)	1,645
18	2,228	3,312	3,753	4,410	895	(30)	328
19	2,373	(350)	(407)	(403)	(122)	(30)	(54)
20	2,373	(181)	(219)	(195)	(115)	(30)	(56)
21	2,309	(180)	(216)	(190)	(115)	(30)	(56)
22	2,193	(179)	(216)	(190)	(114)	(31)	(56)
23	2,045	(180)	(216)	(189)	(113)	(30)	(56)
24	1,898	(180)	(217)	(192)	(113)	(30)	(57)

Tampa Electric Company
SoBRA Projects
January 2019

REVISED 6/19/19

	Net Capability (MW)	Net Generation ⁽¹⁾ (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation ⁽²⁾ (MWh)
1 Payne Creek	70.3	8,052	15.4	0.6	1,463,774
2 Balm	74.4	10,172	18.4	0.7	
3 Lithia	74.5	9,958	18.0	0.7	
4 Grange Hall	61.1	1,725	3.9	0.1	
5 Peace Creek	55.4	(27)	-	(0.0)	
6 Bonnie Mine	37.5	510	6.3	0.0	
7 Total	373.2	30,390	14.1	2.1	

	Natural Gas Displaced (MCF)	Cost of NG ⁽²⁾ (\$/MCF)	Oil Displaced (Bbls)	Cost of Oil ⁽²⁾ (\$/Bbl)	Coal Displaced (Tons)	Cost of Coal ⁽³⁾ (\$/Ton)
8 Payne Creek	25,641	4.57	0	NA	1,939	72.08
9 Balm	32,392	4.57	0	NA	2,450	72.08
10 Lithia	70,063	4.57	0	NA	255	72.08
11 Grange Hall	12,137	4.57	0	NA	44	72.08
12 Peace Creek	(190)	4.57	0	NA	(1)	72.08
13 Bonnie Mine	3,588	4.57	0	NA	13	72.08
14 Total	143,630		0		4,701	

	CO ₂ Reductions (Tons)	NO _x Reductions (Tons)	SO ₂ Reductions (Tons)	Hg Reductions (lb)
15 Payne Creek	3,865	0.9	0.8	0.00
16 Balm	4,883	1.1	1.0	0.00
17 Lithia	4,780	1.1	1.0	0.00
18 Grange Hall	828	0.2	0.2	0.00
19 Peace Creek	(13)	0.0	0.0	0.00
20 Bonnie Mine	245	0.1	0.1	0.00
21 Total	14,587	3.3	3.0	0.01

	O&M Cost (\$)	Carrying Cost ⁽⁴⁾ (\$)	Capital Cost ⁽⁵⁾ (\$)	Other Cost ⁽⁶⁾ (\$)	Fuel Cost (\$)	Total Cost of Generation (\$)
22 Payne Creek	11,400	595,800	258,294	(73,443)	0	792,051
23 Balm	14,036	693,127	254,682	(75,422)	0	886,424
24 Lithia	0	355,207	0	(39,273)	0	315,934
25 Grange Hall	541	262,181	0	(31,721)	0	231,002
26 Peace Creek	0	0	0	0	0	0
27 Bonnie Mine	960	16,326	0	(27,769)	0	(10,483)
28 Total	26,938	1,922,641	512,976	(247,627)	0	2,214,928

NA Not applicable

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

(2) Total System Net Generation from Schedule A3. Fuel Cost per unit data from Schedule A3.

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

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

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Tampa Electric Company
SoBRA Projects
Year-to-Date January 2019

REVISED 6/19/19

	Net Capability (MW)	Net Generation ⁽¹⁾ (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation ⁽²⁾ (MWh)
1 Payne Creek	70.3	8,052	15.4	0.6	1,463,774
2 Balm	74.4	10,172	18.4	0.7	
3 Lithia	74.5	9,958	18.0	0.7	
4 Grange Hall	61.1	1,725	3.9	0.1	
5 Peace Creek	55.4	(27)	-	(0.0)	
6 Bonnie Mine	37.5	510	6.3	0.0	
7 Total	373.2	30,390	14.1	2.1	

	Natural Gas Displaced (MCF)	Cost of NG ⁽²⁾ (\$/MCF)	Oil Displaced (Bbls)	Cost of Oil ⁽²⁾ (\$/Bbl)	Coal Displaced (Tons)	Cost of Coal ⁽³⁾ (\$/Ton)
8 Payne Creek	25,641	4.57	0	NA	1,939	72.08
9 Balm	32,392	4.57	0	NA	2,450	72.08
10 Lithia	70,063	4.57	0	NA	255	72.08
11 Grange Hall	12,137	4.57	0	NA	44	72.08
12 Peace Creek	(190)	4.57	0	NA	(1)	72.08
13 Bonnie Mine	3,588	4.57	0	NA	13	72.08
14 Total	143,630		0		4,701	

	CO ₂ Reductions (Tons)	NO _x Reductions (Tons)	SO ₂ Reductions (Tons)	Hg Reductions (lb)
15 Payne Creek	3,865	0.9	0.8	0.00
16 Balm	4,883	1.1	1.0	0.00
17 Lithia	4,780	1.1	1.0	0.00
18 Grange Hall	828	0.2	0.2	0.00
19 Peace Creek	(13)	0.0	0.0	0.00
20 Bonnie Mine	245	0.1	0.1	0.00
21 Total	14,587	3.3	3.0	0.01

	O&M Cost (\$)	Carrying Cost ⁽⁴⁾ (\$)	Capital Cost ⁽⁵⁾ (\$)	Other Cost ⁽⁶⁾ (\$)	Fuel Cost (\$)	Total Cost of Generation (\$)
22 Payne Creek	11,400	595,800	258,294	(73,443)	0	792,051
23 Balm	14,036	693,127	254,682	(75,422)	0	886,424
24 Lithia	0	355,207	0	(39,273)	0	315,934
25 Grange Hall	541	262,181	0	(31,721)	0	231,002
26 Peace Creek	0	0	0	0	0	0
27 Bonnie Mine	960	16,326	0	(27,769)	0	(10,483)
28 Total	26,938	1,922,641	512,976	(247,627)	0	2,214,928

NA Not applicable

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

(2) Total System Net Generation from Schedule A3. Fuel Cost per unit data from Schedule A3.

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Tampa Electric Company
SoBRA Projects
February 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 Testing	Bonnie Mine In Service
1	1,695	(186)	(209)	(208)	(129)	(53)	(98)
2	1,591	(187)	(210)	(209)	(126)	(53)	(99)
3	1,530	(188)	(210)	(209)	(124)	(53)	(98)
4	1,504	(187)	(210)	(210)	(125)	(53)	(99)
5	1,525	(187)	(209)	(210)	(125)	(54)	(99)
6	1,640	(186)	(209)	(210)	(124)	(53)	(98)
7	1,827	(185)	(209)	(208)	(124)	(53)	(95)
8	1,913	2,417	2,142	3,934	2,415	147	1,243
9	1,990	18,984	18,023	25,703	15,443	803	8,274
10	2,083	33,096	32,087	42,708	27,914	1,356	15,243
11	2,177	36,932	37,972	49,444	32,888	2,185	17,999
12	2,268	40,783	39,812	52,239	34,520	3,344	19,414
13	2,358	42,561	37,736	49,988	34,813	4,522	19,527
14	2,434	40,181	37,093	47,774	34,870	4,942	20,492
15	2,495	38,503	34,688	46,273	31,923	5,147	19,341
16	2,535	33,552	31,517	41,859	29,227	3,566	17,294
17	2,547	27,415	23,775	33,557	22,007	2,980	13,427
18	2,528	9,080	8,248	11,910	7,577	1,483	4,404
19	2,536	(237)	(288)	(264)	(79)	(35)	12
20	2,515	(188)	(235)	(205)	(143)	(57)	(94)
21	2,392	(188)	(207)	(205)	(139)	(57)	(95)
22	2,229	(187)	(209)	(207)	(136)	(58)	(98)
23	2,035	(186)	(210)	(206)	(132)	(57)	(96)
24	1,844	(186)	(209)	(207)	(130)	(57)	(97)

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

**Tampa Electric Company
SoBRA Projects
February 2019**

REVISED 6/19/19

	Net Capability (MW)	Net Generation ⁽¹⁾ (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation ⁽²⁾ (MWh)
1 Payne Creek	70.3	8,999	19.0	0.7	1,334,866
2 Balm	74.4	8,417	16.8	0.6	
3 Lithia	74.5	11,289	22.5	0.8	
4 Grange Hall	61.1	7,613	18.5	0.6	
5 Peace Creek	55.4	833	-	0.1	
6 Bonnie Mine	37.5	4,354	17.3	0.3	
7 Lake Hancock	-	-	-	-	
8 Total	373.2	41,505	19.4	3.1	

	Natural Gas Displaced (MCF)	Cost of NG ⁽²⁾ (\$/MCF)	Oil Displaced (Bbls)	Cost of Oil ⁽²⁾ (\$/Bbl)	Coal Displaced (Tons)	Cost of Coal ⁽³⁾ (\$/Ton)
9 Payne Creek	28,656	3.75	0	NA	2,168	76.76
10 Balm	26,803	3.75	0	NA	2,027	76.76
11 Lithia	79,427	3.75	0	NA	289	76.76
12 Grange Hall	53,564	3.75	0	NA	195	76.76
13 Peace Creek	5,861	3.75	0	NA	21	76.76
14 Bonnie Mine	30,634	3.75	0	NA	111	76.76
15 Lake Hancock	-	-	-	-	-	-
16 Total	224,945		0		4,811	

	CO ₂ Reductions (Tons)	NO _x Reductions (Tons)	SO ₂ Reductions (Tons)	Hg Reductions (lb)
17 Payne Creek	4,320	1.0	0.9	0.003
18 Balm	4,040	0.9	0.8	0.002
19 Lithia	5,419	1.2	1.1	0.003
20 Grange Hall	3,654	0.8	0.8	0.002
21 Peace Creek	400	0.1	0.1	0.000
22 Bonnie Mine	2,090	0.5	0.4	0.001
23 Lake Hancock	-	-	-	-
24 Total	19,922	4.6	4.2	0.01

	O&M Cost (\$)	Carrying Cost ⁽⁴⁾ (\$)	Capital Cost ⁽⁵⁾ (\$)	Other Cost ⁽⁶⁾ (\$)	Fuel Cost (\$)	Total Cost of Generation (\$)
25 Payne Creek	11,400	598,327	257,784	(73,443)	0	794,068
26 Balm	12,849	695,127	255,030	(75,422)	0	887,584
27 Lithia	0	713,057	268,154	(78,545)	0	902,666
28 Grange Hall	0	526,409	232,556	(63,441)	0	695,524
29 Peace Creek	0	1,323	0	(27,791)	0	(26,468)
30 Bonnie Mine	0	193,000	3,105	(55,538)	0	140,567
31 Lake Hancock	0	29,390	0	0	0	29,390
32 Total	24,249	2,756,633	1,016,629	(374,180)	0	3,423,330

NA Not applicable

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

(2) Total System Net Generation from Schedule A3. Fuel Cost per unit data 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. 20190007-EI
SOLAR PLANT OPERATION
STATUS REPORT
FILED: MARCH 20, 2019
REVISED: JUNE 20, 2019

Tampa Electric Company
SoBRA Projects
Year-to-Date February 2019

REVISED 6/19/19

	Net Capability (MW)	Net Generation ⁽¹⁾ (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation ⁽²⁾ (MWh)
1 Payne Creek	70.3	17,051	17.1	0.6	2,798,640
2 Balm	74.4	18,589	17.6	0.7	
3 Lithia	74.5	21,247	20.1	0.8	
4 Grange Hall	61.1	9,338	11.0	0.3	
5 Peace Creek	55.4	806	-	0.0	
6 Bonnie Mine	37.5	4,864	14.6	0.2	
7 Lake Hancock	-	-	-	-	
8 Total	373.2	71,895	16.8	2.6	

	Natural Gas Displaced (MCF)	Cost of NG ⁽²⁾ (\$/MCF)	Oil Displaced (Bbls)	Cost of Oil ⁽²⁾ (\$/Bbl)	Coal Displaced (Tons)	Cost of Coal ⁽³⁾ (\$/Ton)
9 Payne Creek	54,297	4.16	0	NA	4,107	73.48
10 Balm	59,194	4.16	0	NA	4,477	73.48
11 Lithia	149,490	4.16	0	NA	544	73.48
12 Grange Hall	65,701	4.16	0	NA	239	73.48
13 Peace Creek	5,671	4.16	0	NA	21	73.48
14 Bonnie Mine	34,222	4.16	0	NA	124	73.48
15 Lake Hancock	-	-	-	-	-	-
16 Total	368,575		0		9,512	

	CO ₂ Reductions (Tons)	NO _x Reductions (Tons)	SO ₂ Reductions (Tons)	Hg Reductions (lb)
17 Payne Creek	8,184	1.9	1.7	0.00
18 Balm	8,923	2.0	1.9	0.01
19 Lithia	10,199	2.3	2.1	0.01
20 Grange Hall	4,482	1.0	0.9	0.00
21 Peace Creek	387	0.1	0.1	0.00
22 Bonnie Mine	2,335	0.5	0.5	0.00
23 Lake Hancock	-	-	-	-
24 Total	34,510	7.9	7.2	0.02

	O&M Cost (\$)	Carrying Cost ^(4,7) (\$)	Capital Cost ^(5,7) (\$)	Other Cost ⁽⁶⁾ (\$)	Fuel Cost (\$)	Total Cost of Generation (\$)
25 Payne Creek	22,800	1,194,127	516,078	(146,886)	0	1,586,119
26 Balm	26,885	1,388,254	509,712	(150,843)	0	1,774,008
27 Lithia	0	1,068,264	268,154	(117,818)	0	1,218,600
28 Grange Hall	541	788,590	232,556	(95,162)	0	926,526
29 Peace Creek	0	1,323	0	(27,791)	0	(26,468)
30 Bonnie Mine	960	209,326	3,105	(83,306)	0	130,085
31 Lake Hancock	0	29,390	0	0	0	29,390
32 Total	51,187	4,679,274	1,529,605	(621,807)	0	5,638,258

NA Not applicable

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

(2) Total System Net Generation from Schedule A3. Fuel Cost per unit data 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.

(7) Includes January adjustment to Peace Creek and Bonnie Mine Carrying Cost and Capital Cost.

Tampa Electric Company
SoBRA Projects
March 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
1	1,607	(187)	(201)	(205)	(110)	(154)	(98)
2	1,533	(185)	(202)	(204)	(109)	(153)	(98)
3	1,499	(186)	(202)	(205)	(111)	(154)	(99)
4	1,500	(185)	(203)	(205)	(111)	(154)	(98)
5	1,571	(186)	(203)	(205)	(110)	(154)	(99)
6	1,715	(187)	(202)	(204)	(121)	(154)	(98)
7	1,840	239	202	423	141	271	141
8	1,909	12,163	11,555	16,859	8,580	9,457	6,847
9	1,994	34,763	32,829	43,424	25,860	24,246	19,257
10	2,086	44,064	42,567	54,203	35,568	32,633	27,062
11	2,165	47,029	45,192	57,556	38,683	34,392	27,496
12	2,238	47,798	46,273	57,232	41,482	36,222	26,899
13	2,315	46,874	48,503	58,859	42,254	37,263	27,073
14	2,387	47,102	47,598	56,645	41,424	36,330	26,772
15	2,456	41,488	44,456	55,242	38,072	34,593	24,978
16	2,515	39,708	41,439	49,652	35,388	33,518	23,259
17	2,535	35,932	35,775	44,250	30,522	27,437	18,992
18	2,486	17,051	18,411	23,726	13,318	13,532	9,045
19	2,435	915	1,187	1,567	839	842	577
20	2,430	(332)	(358)	(391)	(151)	(176)	(58)
21	2,289	(253)	(283)	(212)	(113)	(168)	(98)
22	2,106	(183)	(200)	(203)	(113)	(154)	(97)
23	1,908	(187)	(200)	(203)	(112)	(154)	(97)
24	1,672	(186)	(200)	(204)	(112)	(154)	(97)

**TAMPA ELECTRIC COMPANY
DOCKET NO. 20190007-EI
SOLAR PLANT OPERATION
STATUS REPORT
FILED: APRIL 22, 2019
REVISED: JUNE 20, 2019**

**Tampa Electric Company
SoBRA Projects
March 2019**

REVISED 6/19/19

	Net Capability (MW)	Net Generation ⁽¹⁾ (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation ⁽²⁾ (MWh)
1 Payne Creek	70.3	12,806	24.5	0.9	1,427,169
2 Balm	74.4	12,836	23.2	0.9	
3 Lithia	74.5	16,044	28.9	1.1	
4 Grange Hall	61.1	10,873	23.9	0.8	
5 Peace Creek	55.4	9,886	24.0	0.7	
6 Bonnie Mine	37.5	7,359	26.4	0.5	
7 Lake Hancock	-	-	-	-	
8 Total	373.2	69,804	25.1	4.9	

	Natural Gas Displaced (MCF)	Cost of NG ⁽²⁾ (\$/MCF)	Oil Displaced (Bbls)	Cost of Oil ⁽²⁾ (\$/Bbl)	Coal Displaced (Tons)	Cost of Coal ⁽³⁾ (\$/Ton)
9 Payne Creek	40,779	3.68	0	NA	3,084	(1,119.69)
10 Balm	40,875	3.68	0	NA	3,092	(1,119.69)
11 Lithia	112,883	3.68	0	NA	411	(1,119.69)
12 Grange Hall	76,501	3.68	0	NA	278	(1,119.69)
13 Peace Creek	69,556	3.68	0	NA	253	(1,119.69)
14 Bonnie Mine	51,777	3.68	0	NA	188	(1,119.69)
15 Lake Hancock	-	-	-	-	-	-
16 Total	392,370		0		7,306	

	CO ₂ Reductions (Tons)	NO _x Reductions (Tons)	SO ₂ Reductions (Tons)	Hg Reductions (lb)
17 Payne Creek	6,147	1.4	1.3	0.004
18 Balm	6,161	1.4	1.3	0.004
19 Lithia	7,701	1.8	1.6	0.005
20 Grange Hall	5,219	1.2	1.1	0.003
21 Peace Creek	4,745	1.1	1.0	0.003
22 Bonnie Mine	3,532	0.8	0.7	0.002
23 Lake Hancock	-	-	-	-
24 Total	33,506	7.7	7.0	0.020

	O&M Cost (\$)	Carrying Cost ⁽⁴⁾ (\$)	Capital Cost ⁽⁵⁾ (\$)	Other Cost ⁽⁶⁾ (\$)	Fuel Cost (\$)	Total Cost of Generation (\$)
25 Payne Creek	11,400	601,207	259,824	(73,443)	0	798,988
26 Balm	12,849	696,140	256,616	(75,422)	0	890,183
27 Lithia	0	709,955	270,795	(78,545)	0	902,205
28 Grange Hall	0	544,061	235,992	(63,441)	0	716,612
29 Peace Creek	0	245,439	2,549	(55,583)	0	192,405
30 Bonnie Mine	0	353,198	141,895	(55,538)	0	439,555
31 Lake Hancock	0	58,976	16	0	0	58,992
32 Total	24,249	3,208,976	1,167,687	(401,972)	0	3,998,940

NA Not applicable

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

(2) Total System Net Generation from Schedule A3. Fuel Cost per unit data from Schedule A3.

(3) Fuel Cost per unit data from Schedule A3. Negative \$/ton due to prior period adjustment.

(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. 20190007-EI
SOLAR PLANT OPERATION
STATUS REPORT
FILED: APRIL 22, 2019
REVISED: JUNE 20, 2019**

**Tampa Electric Company
SoBRA Projects
Year-to-Date March 2019**

REVISED 6/19/19

	Net Capability (MW)	Net Generation ⁽¹⁾ (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation ⁽²⁾ (MWh)
1 Payne Creek	70.3	29,857	19.7	0.7	4,225,809
2 Balm	74.4	31,425	19.6	0.7	
3 Lithia	74.5	37,291	23.2	0.9	
4 Grange Hall	61.1	20,211	15.5	0.5	
5 Peace Creek	55.4	10,692	25.9	0.3	
6 Bonnie Mine	37.5	12,223	20.0	0.3	
7 Lake Hancock	-	-	-	-	
8 Total	373.2	141,699	20.1	3.4	

	Natural Gas Displaced (MCF)	Cost of NG ⁽²⁾ (\$/MCF)	Oil Displaced (Bbls)	Cost of Oil ⁽²⁾ (\$/Bbl)	Coal Displaced (Tons)	Cost of Coal ⁽³⁾ (\$/Ton)
9 Payne Creek	95,076	3.99	0	NA	7,191	79.37
10 Balm	100,069	3.99	0	NA	7,569	79.37
11 Lithia	262,373	3.99	0	NA	954	79.37
12 Grange Hall	142,201	3.99	0	NA	517	79.37
13 Peace Creek	75,227	3.99	0	NA	274	79.37
14 Bonnie Mine	85,999	3.99	0	NA	313	79.37
15 Lake Hancock	-	-	-	-	-	-
16 Total	760,945		0		16,818	

	CO ₂ Reductions (Tons)	NO _x Reductions (Tons)	SO ₂ Reductions (Tons)	Hg Reductions (lb)
17 Payne Creek	14,331	3.3	3.0	0.009
18 Balm	15,084	3.5	3.1	0.009
19 Lithia	17,900	4.1	3.7	0.011
20 Grange Hall	9,701	2.2	2.0	0.006
21 Peace Creek	5,132	1.2	1.1	0.003
22 Bonnie Mine	5,867	1.3	1.2	0.004
23 Lake Hancock	-	-	-	-
24 Total	68,016	15.6	14.2	0.041

	O&M Cost (\$)	Carrying Cost ^(4,7) (\$)	Capital Cost ^(5,7) (\$)	Other Cost ⁽⁶⁾ (\$)	Fuel Cost (\$)	Total Cost of Generation (\$)
25 Payne Creek	34,200	1,795,334	775,902	(220,330)	0	2,385,106
26 Balm	39,734	2,084,394	766,328	(226,265)	0	2,664,191
27 Lithia	0	1,778,219	538,949	(196,363)	0	2,120,805
28 Grange Hall	541	1,332,651	468,548	(158,603)	0	1,643,137
29 Peace Creek	0	246,762	2,549	(83,374)	0	165,937
30 Bonnie Mine	960	562,524	145,000	(138,844)	0	569,640
31 Lake Hancock	0	88,366	16	0	0	88,382
32 Total	75,435	7,888,250	2,697,292	(1,023,779)	0	9,637,198

NA Not applicable

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

(2) Total System Net Generation from Schedule A3. Fuel Cost per unit data 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.

(7) Includes January adjustment to Peace Creek and Bonnie Mine Carrying Cost and Capital Cost.

Tampa Electric Company
SoBRA Projects
April 2019

Hour	System Retail Demand (MW)	Average Hourly Net Output (kWh)					
		Payne Creek In Service	Balm In Service	Lithia In Service	Grange Hall In Service	Peace Creek In Service	Bonnie Mine In Service
1	1,847	(179)	(212)	(198)	(70)	(103)	(100)
2	1,709	(178)	(212)	(197)	(70)	(104)	(101)
3	1,624	(178)	(212)	(196)	(71)	(104)	(100)
4	1,576	(178)	(214)	(196)	(70)	(103)	(100)
5	1,576	(178)	(213)	(195)	(70)	(104)	(100)
6	1,661	(177)	(212)	(194)	(72)	(103)	(100)
7	1,822	(177)	(208)	(195)	(109)	(113)	(95)
8	1,900	4,608	4,361	4,349	2,856	3,164	2,375
9	1,997	25,976	27,172	25,412	16,908	18,916	14,355
10	2,135	40,172	43,549	36,681	28,044	34,389	24,162
11	2,292	45,458	48,901	39,753	34,193	38,809	27,191
12	2,437	45,565	52,609	43,366	39,029	41,096	27,828
13	2,574	49,002	53,783	45,035	42,103	41,827	28,923
14	2,702	50,383	52,346	42,871	42,248	42,408	28,136
15	2,809	47,255	50,408	41,947	40,027	42,294	28,301
16	2,904	45,572	47,011	38,453	37,501	39,987	26,459
17	2,981	41,094	44,554	36,509	34,251	36,789	25,722
18	3,003	37,391	41,171	34,490	31,916	31,211	22,505
19	2,927	21,518	24,992	22,468	18,278	19,077	12,324
20	2,798	3,259	3,793	3,209	1,959	2,227	1,860
21	2,739	(349)	(401)	(286)	(70)	(129)	(98)
22	2,553	(171)	(216)	(191)	(66)	(100)	(100)
23	2,312	(172)	(211)	(190)	(66)	(100)	(100)
24	2,000	(180)	(211)	(191)	(66)	(99)	(100)

Tampa Electric Company
SoBRA Projects
April 2019

REVISED 6/19/19

	Net Capability (MW)	Net Generation ⁽¹⁾ (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation ⁽²⁾ (MWh)
1 Payne Creek	70.3	14,130	27.9	0.9	1,529,962
2 Balm	74.4	15,276	28.5	1.0	
3 Lithia	74.5	12,797	23.9	0.8	
4 Grange Hall	61.1	11,423	26.0	0.7	
5 Peace Creek	55.4	12,122	30.4	0.8	
6 Bonnie Mine	37.5	8,345	30.9	0.5	
7 Lake Hancock	49.5	1,803	25.3	0.1	
8 Total	422.7	75,896	27.5	5.0	

	Natural Gas Displaced (MCF)	Cost of NG ⁽²⁾ (\$/MCF)	Oil Displaced (Bbls)	Cost of Oil ⁽²⁾ (\$/Bbl)	Coal Displaced (Tons)	Cost of Coal (\$/Ton)
9 Payne Creek	44,995	3.50	0	NA	3,403	84.79
10 Balm	48,645	3.50	0	NA	3,679	84.79
11 Lithia	90,037	3.50	0	NA	327	84.79
12 Grange Hall	80,370	3.50	0	NA	292	84.79
13 Peace Creek	85,288	3.50	0	NA	310	84.79
14 Bonnie Mine	58,714	3.50	0	NA	214	84.79
15 Lake Hancock	12,686	3.50	0	NA	46	84.79
16 Total	420,735		0		8,273	

	CO ₂ Reductions (Tons)	NO _x Reductions (Tons)	SO ₂ Reductions (Tons)	Hg Reductions (lb)
17 Payne Creek	6,782	1.6	1.4	0.004
18 Balm	7,332	1.7	1.5	0.004
19 Lithia	6,143	1.4	1.3	0.004
20 Grange Hall	5,483	1.3	1.1	0.003
21 Peace Creek	5,819	1.3	1.2	0.004
22 Bonnie Mine	4,006	0.9	0.8	0.002
23 Lake Hancock	865	0.2	0.2	0.001
24 Total	36,430	8.3	7.6	0.022

	O&M Cost (\$)	Carrying Cost ⁽⁴⁾ (\$)	Capital Cost ⁽⁵⁾ (\$)	Other Cost ⁽⁶⁾ (\$)	Fuel Cost (\$)	Total Cost of Generation (\$)
25 Payne Creek	11,400	602,529	261,821	(73,443)	0	802,307
26 Balm	12,849	697,545	256,778	(75,422)	0	891,750
27 Lithia	29,726	708,585	267,267	(115,305)	0	890,273
28 Grange Hall	(541)	561,586	252,656	(58,565)	0	755,136
29 Peace Creek	0	497,244	176,691	937	0	674,872
30 Bonnie Mine	9,753	355,164	141,269	5,047	0	511,233
31 Lake Hancock	0	181,704	16	(25,319)	0	156,401
32 Total	63,186	3,604,357	1,356,498	(342,069)	0	4,681,972

NA Not applicable

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

(2) Total System Net Generation from Schedule A3. Fuel Cost per unit data 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. Lithia and Grange Hall include adjustments to Jan-Mar 2019.

Peace Creek and Bonnie Mine include adjustments to Feb-Mar 2019.

Tampa Electric Company
SoBRA Projects
Year-to-Date April 2019

REVISED 6/19/19

	Net Capability (MW)	Net Generation ⁽¹⁾ (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation ⁽²⁾ (MWh)
1 Payne Creek	70.3	43,987	21.7	0.8	5,755,771
2 Balm	74.4	46,701	21.8	0.8	
3 Lithia	74.5	50,088	23.3	0.9	
4 Grange Hall	61.1	31,634	18.1	0.5	
5 Peace Creek	55.4	22,814	28.1	0.4	
6 Bonnie Mine	37.5	20,568	23.3	0.4	
7 Lake Hancock	49.5	1,803	25.3	0.0	
8 Total	422.7	217,595	22.2	3.8	

	Natural Gas Displaced (MCF)	Cost of NG ⁽²⁾ (\$/MCF)	Oil Displaced (Bbls)	Cost of Oil ⁽²⁾ (\$/Bbl)	Coal Displaced (Tons)	Cost of Coal ⁽³⁾ (\$/Ton)
9 Payne Creek	140,071	3.85	0	NA	10,595	80.49
10 Balm	148,714	3.85	0	NA	11,249	80.49
11 Lithia	352,410	3.85	0	NA	1,282	80.49
12 Grange Hall	222,571	3.85	0	NA	810	80.49
13 Peace Creek	160,515	3.85	0	NA	584	80.49
14 Bonnie Mine	144,713	3.85	0	NA	526	80.49
15 Lake Hancock	12,686	3.85	0	NA	46	80.49
16 Total	1,181,681		0		25,091	

	CO ₂ Reductions (Tons)	NO _x Reductions (Tons)	SO ₂ Reductions (Tons)	Hg Reductions (lb)
17 Payne Creek	21,114	4.8	4.4	0.013
18 Balm	22,416	5.1	4.7	0.014
19 Lithia	24,042	5.5	5.0	0.015
20 Grange Hall	15,184	3.5	3.2	0.009
21 Peace Creek	10,951	2.5	2.3	0.007
22 Bonnie Mine	9,873	2.3	2.1	0.006
23 Lake Hancock	865	0.2	0.2	0.00
24 Total	104,446	23.9	21.8	0.063

	O&M Cost (\$)	Carrying Cost ⁽⁴⁾ (\$)	Capital Cost ⁽⁵⁾ (\$)	Other Cost ⁽⁶⁾ (\$)	Fuel Cost (\$)	Total Cost of Generation (\$)
25 Payne Creek	45,600	2,397,863	1,037,723	(293,773)	0	3,187,413
26 Balm	52,583	2,781,939	1,023,106	(301,687)	0	3,555,941
27 Lithia	29,726	2,486,804	806,216	(311,668)	0	3,011,077
28 Grange Hall	0	1,894,237	721,204	(217,168)	0	2,398,273
29 Peace Creek	0	744,006	179,240	(82,437)	0	840,809
30 Bonnie Mine	10,714	917,688	286,269	(133,797)	0	1,080,874
31 Lake Hancock	0	270,070	32	(25,319)	0	244,783
32 Total	138,622	11,492,607	4,053,790	(1,365,848)	0	14,319,171

NA Not applicable

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

(2) Total System Net Generation from Schedule A3. Fuel Cost per unit data 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.