

Dianne M. Triplett

October 21, 2020

VIA ELECTRONIC FILING

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

Re: Duke Energy Florida, LLC's Solar Plant Operation Status Report Docket No. 20200007-EI

Dear Mr. Teitzman:

Enclosed for filing on behalf of Duke Energy Florida, LLC ("DEF") is DEF's Solar Plant Operation Status Report for the month of September 2020, in accordance with Paragraph 15a. of the 2017 Second Revised and Restated Settlement Agreement, which was approved in Order No. PSC-2017-0451-AS-EU, dated November 20, 2017.

Thank you for your assistance in this matter. Please feel free to call me at (727) 820-4692 should you have any questions concerning this filing.

Sincerely,

/s/ Dianne M. Triplett

Dianne M. Triplett

DMT/cmk Enclosures



CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of the foregoing has been furnished via electronic mail to the following this 21st day of October, 2020.

/s/ Dianne M. Triplett

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Duke Energy Florida, LLC Actual Data for Solar Generation Facilities Solar Base Rate Adjustment (SoBRA) Reporting <u>September, 2020</u>

			AVERAGE HOURLY NET OUTPUT (MWh)				
	Hour of Day	System Firm Demand (MW)	Hamilton	Lake Placid	Trenton	Columbia	Debary
1	1	4,333.3	0.0	0.0	0.0	0.0	0.0
2	2	4,037.9	0.0	0.0	0.0	0.0	0.0
3	3	3,833.1	0.0	0.0	0.0	0.0	0.0
4	4	3,720.4	0.0	0.0	0.0	0.0	0.0
5	5	3,694.4	0.0	0.0	0.0	0.0	0.0
6	6	3,803.2	0.0	0.0	0.0	0.0	0.0
7	7	4,036.8	1.9	1.7	1.9	2.3	1.4
8	8	4,294.4	21.0	14.1	22.5	23.0	12.7
9	9	4,632.8	37.6	23.9	40.3	43.0	28.6
10	10	5,105.9	46.1	26.0	46.3	51.4	40.2
11	11	5,684.1	49.3	29.6	51.8	55.0	47.3
12	12	6,334.4	51.4	29.5	50.3	51.7	49.7
13	13	6,917.8	49.3	30.2	49.6	50.1	46.3
14	14	7,340.5	46.6	28.7	46.9	46.5	39.7
15	15	7,585.5	41.6	27.2	42.8	40.5	33.5
16	16	7,636.3	34.4	23.5	34.6	35.8	23.3
17	17	7,578.3	26.0	15.0	28.1	28.6	11.7
18	18	7,385.6	12.8	5.2	13.7	13.6	3.8
19	19	7,017.9	1.4	0.3	1.1	1.3	0.3
20	20	6,640.4	0.0	0.0	0.0	0.0	0.0
21	21	6,312.2	0.0	0.0	0.0	0.0	0.0
22	22	5,798.5	0.0	0.0	0.0	0.0	0.0
23	23	5,263.2	0.0	0.0	0.0	0.0	0.0
24	24	4,703.6	0.0	0.0	0.0	0.0	0.0

Duke Energy Florida, LLC Actual Data for Solar Generation Facilities Solar Base Rate Adjustment (SoBRA) Reporting PERIOD: <u>September, 2020</u>

	Facility	Net Capability (MW)	Net Generation (MWh) ⁽¹⁾	Capacity Factor (%)	Percent of Total Generation (%)	Total System Net Generation (MWh) ⁽²⁾
1	HAMILTON	74.9	12,581	23.3%	0.3%	3,811,409
1	LAKE PLACID	45.0	7,646	23.6%	0.2%	
1	TRENTON	74.9	12,893	23.9%	0.3%	
1	COLUMBIA	74.9	13,289	24.6%	0.3%	
1	DEBARY	74.5	10,152	18.9%	0.3%	
2	Total:	344.2	56,561.0	22.8%	1.5%	

[Facility	Natural Gas Displaced (MCF)	Cost of NG (\$/MCF) ⁽³⁾	Oil Displaced (Bbls)	Cost of Oil (\$/Bbl) ⁽³⁾	Coal Displaced (Tons)	Cost of Coal (\$/Ton) ⁽³⁾
3	HAMILTON	<mark>83,856</mark>	\$2.28	660	\$55.22	1,796	\$34.22
3	LAKE PLACID	49,730	\$2.28	391	\$55.22	1,065	\$34.22
3	TRENTON	<mark>83,856</mark>	\$2.28	660	\$55.22	1,796	\$34.22
3	COLUMBIA	86,432	\$2.28	680	\$55.22	1,852	\$34.22
3	DEBARY	66,029	\$2.28	520	\$55.22	1,414	\$34.22
4	Total:	369,902	\$843,895	2,911	\$160,739	7,924	\$271,155

	Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
5	HAMILTON	9,043	6	2	0
5	LAKE PLACID	5,363	4	1	0
5	TRENTON	9,043	6	2	0
5	COLUMBIA	9,320	6	2	0
5	DEBARY	7,120	5	2	0
6	Total:	39,888	27	9	1

	Facility	O&M (\$)	Carrying Costs (\$) ⁽⁴⁾	Capital (\$) ⁽⁵⁾	Other (\$) ⁽⁶⁾	Fuel Costs (\$)	Total Cost of Generation (\$)
7	HAMILTON	\$62,910	\$700,887	\$304,534	\$16,388	\$0	\$1,084,718
7	LAKE PLACID	\$30,325	\$381,368	\$164,915	\$8,683	\$0	\$585,291
7	TRENTON	\$32,896	\$628,255	\$271,662	\$17,550	\$0	\$950,363
7	COLUMBIA	\$48,552	\$703,143	\$292,174	\$17,645	\$0	\$1,061,514
7	DEBARY	\$32,265	\$571,160	\$242,916	\$14,286	\$0	\$860,627
8	Total:	\$206,948	\$2,984,813	\$1,276,201	\$74,552	\$0	\$4,542,513

(1) Net Generation data represents a calendar month.

(2) Total System Net Generation from Monthly Operating Report.

(3) Fuel Cost per unit data from Schedules A3 & A4.

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

(5) Capital Cost data represents depreciation expense on net investment. 1 Month lag for Debary

(6) Other Cost data represents dismantlement costs and amortization on ITC (no ITC amortization for Hamilton, Lake Placid, Trenton, Columbia, Debary yet).

Duke Energy Florida, LLC Actual Data for Solar Generation Facilities Solar Base Rate Adjustment (SoBRA) Reporting YEAR-TO-DATE THROUGH: <u>September, 2020</u>

	Facility	Net Capability (MW)	Net Generation (MWh) ⁽¹⁾	Capacity Factor (%) ⁽⁷⁾	Percent of Total Generation (%)	Total System Net Generation (MWh) ⁽²⁾
1	HAMILTON	74.9	140,333	28.5%	0.4%	31,489,245
1	LAKE PLACID	45.0	77,733	26.3%	0.2%	
1	TRENTON	74.9	134,798	27.4%	0.4%	
1	COLUMBIA	74.9	110,216	31.9%	0.4%	
1	DEBARY	74.5	57,135	22.8%	0.2%	
2	Total:	344.2	520,215	27.7%	1.7%	

[Facility	Natural Gas Displaced (MCF)	Cost of NG (\$/MCF) ⁽³⁾	Oil Displaced (Bbls)	Cost of Oil (\$/Bbl) ⁽³⁾	Coal Displaced (Tons)	Cost of Coal (\$/Ton) ⁽³⁾
3	HAMILTON	1, 1 94,867	\$1.99	3,945	\$55.79	5,676	\$35.47
3	LAKE PLACID	660,283	\$2.00	2,228	\$55.72	3,185	\$35.41
3	TRENTON	1,145,869	\$2.00	3,809	\$55.76	5,483	\$35.44
3	COLUMBIA	931,063	\$1.99	3,421	\$54.74	5,786	\$35.42
3	DEBARY	473,911	\$2.06	1,938	\$55.97	4,052	\$35.05
4	Total:	4,405,993	\$8,848,330	15,342	\$852,936	24,181	\$855,047

	Facility	CO2 Reductions (Tons)	NOx Reduction (Tons)	SO2 Reduction (Tons)	Hg Reduction (lbs)
5	HAMILTON	85,881	46	7	1
5	LAKE PLACID	47,579	26	4	0
5	TRENTON	82,453	44	7	1
5	COLUMBIA	69,849	37	7	1
5	DEBARY	37,890	20	5	0
6	Total:	323,652	173	29	2

	Facility	O&M (\$)	Carrying Costs (\$) ⁽⁴⁾	Capital (\$) ⁽⁵⁾	Other (\$) ⁽⁶⁾	Fuel Costs (\$)	Total Cost of Generation (\$)
7	HAMILTON	\$1,107,181	\$6,385,226	\$2,740,550	\$147,492	\$0	\$10,380,449
7	LAKE PLACID	\$412,046	\$3,064,496	\$1,309,892	\$78,147	\$0	\$4,864,580
7	TRENTON	\$633,585	\$5,549,287	\$2,380,924	\$157,950	\$0	\$8,721,745
	COLUMBIA	\$621,405	\$4,830,773	\$1,729,154	\$123,515	\$0	\$7,304,847
	DEBARY	\$65,384	\$2,558,086	\$968,863	\$71,430	\$0	\$3,663,764
8	Total:	\$2,839,601	\$22,387,868	\$9,129,383	\$578,534	\$0	\$34,935,385

(1) Net Generation data represents a year-to-date value.

(2) Total System Net Generation from Monthly Operating Reports.

(3) Fuel Cost per unit data from Schedules A3 & A4.

(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 (no ITC amortization for Hamilton, Lake Placid, Trenton, Columbia, Debary yet).

(7) YTD Capacity Factors adjusted for Columbia and Debary mid 2020 start up dates.