

John T. Butler Assistant General Counsel – Regulatory Florida Power & Light Company 700 Universe Boulevard Juno Beach, FL 33408-0420 (561) 304-5639 (561) 691-7135 (Facsimile) John.Butler@fpl.com

May 22, 2017

-VIA ELECTRONIC FILING -

Ms. Carlotta S. Stauffer Commission Clerk Florida Public Service Commission 2540 Shumard Oak Blvd. Tallahassee, FL 32399-0850

Re: Docket No. 170007-EI

Dear Ms. Stauffer:

I enclose for electronic filing in the above docket; Florida Power & Light Company's ("FPL") Solar Plant Operation Status Report for the month of April 2017, in accordance with Stipulation III.F. that was approved in Order No. PSC-11-0083-FOF-EI, Docket No. 100007-EI, dated January 31, 2011.

Also enclosed are revised Solar Plant Operation Status Reports for February 2017 and March 2017 to include ICL Gas Transportation Charges in the cost of natural gas displaced by solar output.

If there are any questions regarding this transmittal, please contact me at (561) 304-5639.

Sincerely,

s/John T. Butler

John T. Butler

Enclosures

cc: Counsel for Parties of Record (w/encl.)

Florida Power & Light Company

CERTIFICATE OF SERVICE Docket No. 170007-EI

I HEREBY CERTIFY that a true and correct copy of the foregoing has been furnished by electronic service on this 22nd day of May 2017, to the following:

Bianca Lherisson, Esq. Charles Murphy, Esq. Office of the General Counsel Florida Public Service Commission 2540 Shumard Oak Boulevard Tallahassee, Florida 32399-0850 Blheriss@psc.state.fl.us Cmurphy@psc.state.fl.us

James D. Beasley, Esquire
J. Jeffrey Wahlen, Esquire
Ausley & McMullen
Attorneys for Tampa Electric Company
P.O. Box 391
Tallahassee, Florida 32302
jbeasley@ausley.com
jwahlen@ausley.com

Jeffrey A. Stone, Esquire
Russell A. Badders, Esquire
Steven R. Griffin
Beggs & Lane
Attorneys for Gulf Power Company
P.O. Box 12950
Pensacola, Florida 32591-2950
jas@beggslane.com
rab@beggslane.com
srg@beggslane.com

Paula K. Brown Regulatory Coordination Tampa Electric Company P.O. Box 111 Tampa, Florida 33601 regdept@tecoenergy.com Charles J. Rehwinkel, Esquire Stephanie A. Morse, Esquire Office of Public Counsel c/o The Florida Legislature 111 W. Madison St., Room 812 Tallahassee, Florida 32399-1400 rehwinkel.charles@leg.state.fl.us morse.stephanie@leg.state.fl.us

Dianne Triplett, Esquire
Duke Energy Florida, Inc.
299 First Avenue North
St. Petersburg, Florida 33701
dianne.triplett@duke-energy.com

Matthew R. Bernier, Senior Counsel Duke Energy Florida, Inc. 106 East College Avenue Suite 800 Tallahassee, Fl 32301 Matthew.bernier@duke-energy.com

Jon C. Moyle, Jr., Esquire The Moyle Law Firm, P.A. Attorneys for FIPUG 118 N. Gadsden Street Tallahassee, Florida 32301 jmoyle@moylelaw.com

Robert L. McGee, Jr. Regulatory and Pricing Manager Gulf Power Company One Energy Place Pensacola, Florida 32520-0780 rlmcgee@southernco.com James W. Brew, Esq.
Laura A. Wynn, Esq.
Stone, Mattheis, Xenopoulos & Brew, P.C.
1025 Thomas Jefferson Street, N.W.
Eighth Floor, West Tower
Washington, D.C. 20007
jbrew@smxblaw.com
law@smxblaw.com
Attorneys for White Springs Agricultural Chemicals,
Inc. d/b/a/ PCS Phosphate – White Springs

George Cavros, Esq.
120 E. Oakland Park Blvd., Suite 105
Ft. Lauderdale, FL 33334
George@cavros-law.com
Attorney for Southern Alliance for Clean Energy

By: <u>s/ John T. Butler</u> John T. Butler Florida Bar No. 283479

Florida Power & Light Company Actual Data for Next Generation Solar Centers Environmental Cost Recovery Clause Period of: February 2017

			Averag	e Hourly Net Outpu	ıt (kWh)
	Hour of Day	System Firm Demand (MW)	DESOTO	SPACE COAST	MARTIN SOLAR
1	1	9,116	(49)	(17)	(108)
2	2	8,449	(49)	(18)	(109)
3	3	8,085	(49)	(18)	(109)
4	4	7,924	(49)	(18)	(109)
5	5	7,996	(50)	(18)	(109)
6	6	8,538	(51)	(18)	(109)
7	7	9,649	(53)	(18)	(108)
8	8	10,452	1,575	494	(118)
9	9	11,280	8,999	2,685	(135)
10	10	12,105	13,476	4,680	(149)
11	11	12,754	14,908	6,320	(155)
12	12	13,224	14,829	7,083	(157)
13	13	13,617	14,371	7,324	(158)
14	14	13,947	14,925	7,048	(157)
15	15	14,195	14,358	6,385	(156)
16	16	14,358	14,043	5,231	(153)
17	17	14,306	11,708	3,179	(142)
18	18	14,072	4,959	852	(122)
19	19	14,268	(11)	(25)	(110)
20	20	14,158	(57)	(25)	(111)
21	21	13,447	(53)	(18)	(111)
22	22	12,512	(51)	(17)	(111)
23	23	11,430	(51)	(17)	(110)
24	24	10,210	(50)	(17)	(110)

Florida Power & Light Company Actual Data for Next Generation Solar Centers Environmental Cost Recovery Clause Period of: February 2017

		Net Capability (MW)	⁽¹⁾ Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	⁽²⁾ Total System Net Generation (MWh)
1	DESOTO	25	3,571	21.3%	0.04%	8,156,506
2	SPACE COAST	10	1,429	21.3%	0.02%	
3	MARTIN SOLAR	75	(85)	-0.2%	0.00%	
4	Total	110	4,915	6.6%	0.06%	

		Natural Gas Displaced (MCF)	(2) Cost of NG (\$/MCF)	Oil Displaced (Bbls)	(2) Cost of Oil (\$/Bbl)	Coal Displaced (Tons)	(3) Cost of Coal (\$/Ton)
5	DESOTO	15,965	\$4.26	0	\$0.00	619	\$68.75
6	SPACE COAST	6,689	\$4.26	0	\$0.00	224	\$68.75
7	MARTIN SOLAR	(346)	\$4.26	0	\$0.00	(17)	\$68.75
8	Total	22,308	\$94,974	0	\$0	826	\$56,799

		CO2 Reductions (Tons)	Nox Reductions (Tons)	SO2 Reductions (Tons)	Hg Reductions (lbs)
9	DESOTO	2,253	2.2	2.1	0.02
10	SPACE COAST	873	0.9	0.8	0.01
11	MARTIN SOLAR	(56)	(0.1)	(0.0)	(0.00)
12	Total	3,070	3.0	2.9	0.02

		O&M (\$)	⁽⁴⁾ Carrying Costs (\$)	⁽⁵⁾ Capital (\$)	⁽⁶⁾ Other (\$)	Fuel Cost (\$)	Total Cost of Generation (\$)
13	DESOTO	\$69,101	\$980,963	\$432,167	(\$148,208)	\$0	\$1,334,023
14	SPACE COAST	\$17,888	\$454,149	\$196,187	(\$62,871)	\$0	\$605,353
15	MARTIN SOLAR	\$407,297	\$2,892,749	\$1,019,145	(\$402,196)	\$0	\$3,916,994
16	Total	\$494,286	\$4,327,861	\$1,647,498	(\$613,275)	\$0	\$5,856,370

⁽¹⁾ Net Generation data represents a calendar month.

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

⁽³⁾ Fuel Cost per unit data from Schedule 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.

Florida Power & Light Company Actual Data for Next Generation Solar Centers Environmental Cost Recovery Clause Period of: Year-to-Date (January - February) 2017

		Net Capability (MW)	⁽¹⁾ Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	⁽²⁾ Total System Net Generation (MWh)
1	DESOTO	25	6,826	19.3%	0.04%	17,112,991
2	SPACE COAST	10	2,739	19.3%	0.02%	
3	MARTIN SOLAR	75	165	0.2%	0.00%	
4	Total	110	9,730	6.2%	0.06%	

		Natural Gas Displaced (MCF)	(2) Cost of NG (\$/MCF)	Oil Displaced (Bbls)	(2) Cost of Oil (\$/Bbl)	Coal Displaced (Tons)	(3) Cost of Coal (\$/Ton)
5	DESOTO	29,100	\$4.45	0	\$0.00	1,286	\$68.45
6	SPACE COAST	11,463	\$4.45	0	\$0.00	531	\$68.45
7	MARTIN SOLAR	1,418	\$4.45	0	\$0.00	(24)	\$68.45
8	Total	41,981	\$186,860	0	\$0	1,793	\$122,769

		CO2 Reductions (Tons)	Nox Reductions (Tons)	SO2 Reductions (Tons)	Hg Reductions (lbs)
9	DESOTO	4,441	4.5	4.4	0.03
10	SPACE COAST	1,799	1.9	1.8	0.01
11	MARTIN SOLAR	39	0.0	0.0	0.00
12	Total	6,279	6.4	6.2	0.04

		O&M (\$)	(4) Carrying Costs (\$)	(5) Capital (\$)	⁽⁶⁾ Other (\$)	Fuel Cost (\$)	Total Cost of Generation (\$)
13	DESOTO	\$105,786	\$1,965,638	\$864,585	(\$296,416)	\$0	\$2,639,593
14	SPACE COAST	\$26,316	\$909,970	\$392,374	(\$125,742)	\$0	\$1,202,917
15	MARTIN SOLAR	\$813,484	\$5,787,967	\$2,037,776	(\$804,392)	\$0	\$7,834,834
16	Total	\$945,586	\$8,663,575	\$3,294,734	(\$1,226,550)	\$0	\$11,677,344

- (1) Net Generation data represents a calendar month.
- (2) Total System Net Generation from Schedule A3. Fuel Cost per unit data from Schedule A3.
- (3) Fuel Cost per unit data from Schedule 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.

Florida Power & Light Company Actual Data for Next Generation Solar Centers Environmental Cost Recovery Clause

Period of: March 2017

		[Avera	ge Hourly Net Outpu	ut (kWh)
	Hour of Day	System Firm Demand (MW)	DESOTO	I	MARTIN SOLAR
1	1	9,422	(55)	(17)	(153)
2	2	8,691	(54)	(17)	(150)
3	3	8,258	(54)	(17)	(149)
4	4	8,052	(53)	(17)	(150)
5	5	8,087	(52)	(18)	(150)
6	6	8,597	(52)	(18)	(149)
7	7	9,649	(51)	(16)	(146)
8	8	10,431	1,578	414	(178)
9	9	11,174	9,529	2,075	(211)
10	10	12,018	16,152	4,312	(229)
11	11	12,744	17,317	6,387	(217)
12	12	13,261	16,452	7,674	(210)
13	13	13,660	16,219	8,423	(210)
14	14	13,975	15,472	8,389	(205)
15	15	14,222	15,036	7,677	(204)
16	16	14,428	15,035	6,806	(196)
17	17	14,520	15,166	4,826	(186)
18	18	14,406	11,837	2,705	(176)
19	19	14,173	5,693	842	(164)
20	20	13,998	336	28	(161)
21	21	13,793	(64)	(25)	(150)
22	22	12,931	(58)	(19)	(150)
23	23	11,835	(57)	(18)	(150)
24	24	10,559	(54)	(17)	(146)

Florida Power & Light Company Actual Data for Next Generation Solar Centers Environmental Cost Recovery Clause Period of: March 2017

		Net Capability (MW)	(1) Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	⁽²⁾ Total System Net Generation (MWh)
1	DESOTO	25	4,812	25.9%	0.05%	8,921,785
2	SPACE COAST	10	1,871	25.1%	0.02%	
3	MARTIN SOLAR	75	(130)	-0.2%	0.00%	
4	Total	110	6,553	8.0%	0.07%	

		Natural Gas Displaced (MCF)	(2) Cost of NG (\$/MCF)	Oil Displaced (Bbls)	(2) Cost of Oil (\$/Bbl)	Coal Displaced (Tons)	(3) Cost of Coal (\$/Ton)
5	DESOTO	32,287	\$3.95	18	\$73.75	508	\$59.76
6	SPACE COAST	12,286	\$3.95	10	\$73.75	202	\$59.76
7	MARTIN SOLAR	(755)	\$3.95	0	\$73.75	(16)	\$59.76
8	Total	43,818	\$172,960	27	\$2,003	695	\$41,529

		CO2 Reductions (Tons)	Nox Reductions (Tons)	SO2 Reductions (Tons)	Hg Reductions (lbs)
9	DESOTO	2,931	2.0	1.2	0.01
10	SPACE COAST	1,137	0.8	0.5	0.00
11	MARTIN SOLAR	(77)	(0.1)	0.0	0.00
12	Total	3,991	2.7	1.7	0.02

		O&M (\$)	(4) Carrying Costs (\$)	(5) Capital (\$)	⁽⁶⁾ Other (\$)	Fuel Cost (\$)	Total Cost of Generation (\$)
13	DESOTO	\$41,035	\$977,089	\$432,174	(\$148,208)	\$0	\$1,302,090
14	SPACE COAST	\$11,065	\$452,479	\$196,141	(\$62,871)	\$0	\$596,814
15	MARTIN SOLAR	\$390,803	\$2,887,159	\$1,019,210	(\$402,196)	\$0	\$3,894,976
16	Total	\$442,903	\$4,316,727	\$1,647,525	(\$613,275)	\$0	\$5,793,880

- (1) Net Generation data represents a calendar month.
- (2) Total System Net Generation from Schedule A3. Fuel Cost per unit data from Schedule A3.
- (3) Fuel Cost per unit data from Schedule 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.

Florida Power & Light Company Actual Data for Next Generation Solar Centers Environmental Cost Recovery Clause

Period of: Year-to-Date (January - March) 2017

		Net Capability (MW)	⁽¹⁾ Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	⁽²⁾ Total System Net Generation (MWh)
1	DESOTO	25	11,638	21.6%	0.04%	26,034,776
2	SPACE COAST	10	4,610	21.3%	0.02%	
3	MARTIN SOLAR	75	35	0.0%	0.00%	
4	Total	110	16,283	6.9%	0.06%	

		Natural Gas Displaced (MCF)	(2) Cost of NG (\$/MCF)	Oil Displaced (Bbls)	(2) Cost of Oil (\$/Bbl)	Coal Displaced (Tons)	(3) Cost of Coal (\$/Ton)
5	DESOTO	61,387	\$4.19	18	\$73.75	1,795	\$66.03
6	SPACE COAST	23,749	\$4.19	10	\$73.75	733	\$66.03
7	MARTIN SOLAR	663	\$4.19	0	\$73.75	-39	\$66.03
8	Total	85,799	\$359,821	27	\$2,003	2,488	\$164,298

		CO2 Reductions (Tons)	Nox Reductions (Tons)	SO2 Reductions (Tons)	Hg Reductions (lbs)
9	DESOTO	7,372	6.5	5.6	0.04
10	SPACE COAST	2,936	2.6	2.3	0.02
11	MARTIN SOLAR	-38	-0.1	-0.1	0.00
12	Total	10,270	9.1	7.8	0.06

		O&M (\$)	(4) Carrying Costs (\$)	⁽⁵⁾ Capital (\$)	⁽⁶⁾ Other (\$)	Fuel Cost (\$)	Total Cost of Generation (\$)
13	DESOTO	\$146,821	\$2,942,726	\$1,296,759	(\$444,624)	\$0	\$3,941,683
14	SPACE COAST	\$37,381	\$1,362,449	\$588,515	(\$188,613)	\$0	\$1,799,731
15	MARTIN SOLAR	\$1,204,287	\$8,675,126	\$3,056,986	(\$1,206,588)	\$0	\$11,729,810
16	Total	\$1,388,489	\$12,980,301	\$4,942,259	(\$1,839,825)	\$0	\$17,471,224

- (1) Net Generation data represents a calendar month.
- (2) Total System Net Generation from Schedule A3. Fuel Cost per unit data from Schedule A3.
- (3) Fuel Cost per unit data from Schedule 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.

Florida Power & Light Company Actual Data for Next Generation Solar Centers Environmental Cost Recovery Clause Period of: April 2017

			Averag	e Hourly Net Outpu	ıt (kWh)
	Hour of Day	System Firm Demand (MW)	DESOTO	SPACE COAST	MARTIN SOLAR
1	1	10,862	(52)	(18)	(175)
2	2	9,987	(51)	(17)	(172)
3	3	9,436	(51)	(17)	(172)
4	4	9,115	(51)	(17)	(173)
5	5	9,061	(50)	(17)	(173)
6	6	9,432	(51)	(17)	(171)
7	7	10,280	(52)	(17)	(168)
8	8	10,906	1,928	362	(191)
9	9	11,844	11,782	2,028	(216)
10	10	13,020	16,247	4,271	(214)
11	11	14,083	16,796	5,985	(206)
12	12	14,904	17,456	7,346	(211)
13	13	15,568	17,741	8,083	(208)
14	14	16,139	16,294	8,502	(208)
15	15	16,545	16,295	8,348	(209)
16	16	16,859	15,117	6,905	(208)
17	17	17,004	13,405	5,475	(205)
18	18	16,862	12,904	3,589	(200)
19	19	16,358	8,998	1,398	(199)
20	20	15,716	1,189	142	(200)
21	21	15,645	(68)	(30)	(185)
22	22	14,828	(55)	(21)	(184)
23	23	13,607	(53)	(18)	(181)
24	24	12,167	(52)	(18)	(180)

Florida Power & Light Company Actual Data for Next Generation Solar Centers Environmental Cost Recovery Clause Period of: April 2017

		Net Capability (MW)	⁽¹⁾ Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	⁽²⁾ Total System Net Generation (MWh)
1	DESOTO	25	4,967	27.6%	0.05%	9,437,835
2	SPACE COAST	10	1,867	25.9%	0.02%	
3	MARTIN SOLAR	75	(138)	-0.3%	0.00%	
4	Total	110	6,695	8.5%	0.07%	

		Natural Gas Displaced (MCF)	(2) Cost of NG (\$/MCF)	Oil Displaced (Bbls)	(2) Cost of Oil (\$/Bbl)	Coal Displaced (Tons)	(3) Cost of Coal (\$/Ton)
5	DESOTO	12,843	\$3.10	214	\$79.39	1,591	\$80.21
6	SPACE COAST	4,543	\$3.10	76	\$79.39	616	\$80.21
7	MARTIN SOLAR	(464)	\$3.10	(2)	\$79.39	(38)	\$80.21
8	Total	16,922	\$52,409	287	\$22,811	2,168	\$173,922

		CO2 Reductions (Tons)	Nox Reductions (Tons)	SO2 Reductions (Tons)	Hg Reductions (lbs)
9	DESOTO	4,445	6.8	2.1	0.04
10	SPACE COAST	1,690	2.6	0.8	0.02
11	MARTIN SOLAR	(114)	(0.2)	0.0	0.00
12	Total	6,022	9.2	2.8	0.06

		O&M (\$)	(4) Carrying Costs (\$)	⁽⁵⁾ Capital (\$)	⁽⁶⁾ Other (\$)	Fuel Cost (\$)	Total Cost of Generation (\$)
13	DESOTO	\$32,914	\$973,208	\$432,118	(\$148,208)	\$0	\$1,290,032
14	SPACE COAST	\$8,555	\$450,809	\$196,095	(\$62,871)	\$0	\$592,588
15	MARTIN SOLAR	\$214,141	\$2,879,355	\$1,019,210	(\$402,196)	\$0	\$3,710,510
16	Total	\$255,610	\$4,303,372	\$1,647,422	(\$613,275)	\$0	\$5,593,130

- (1) Net Generation data represents a calendar month.
- (2) Total System Net Generation from Schedule A3. Fuel Cost per unit data from Schedule A3.
- (3) Fuel Cost per unit data from Schedule 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.

Florida Power & Light Company Actual Data for Next Generation Solar Centers Environmental Cost Recovery Clause Period of: Year-to-Date (January - April) 2017

		Net Capability (MW)	(1) Net Generation (MWh)	Capacity Factor (%)	Percent of Total Generation (%)	⁽²⁾ Total System Net Generation (MWh)
1	DESOTO	25	16,605	23.1%	0.05%	35,472,611
2	SPACE COAST	10	6,476	22.5%	0.02%	
3	MARTIN SOLAR	75	-103	0.0%	0.00%	
4	Total	110	22,978	7.3%	0.06%	

		Natural Gas Displaced (MCF)	(2) Cost of NG (\$/MCF)	Oil Displaced (Bbls)	(2) Cost of Oil (\$/Bbl)	Coal Displaced (Tons)	(3) Cost of Coal (\$/Ton)
5	DESOTO	74,230	\$4.01	232	\$78.90	3,385	\$72.63
6	SPACE COAST	28,293	\$4.01	85	\$78.90	1,349	\$72.63
7	MARTIN SOLAR	199	\$4.01	-2	\$78.90	-78	\$72.63
8	Total	102,721	\$412,230	314	\$24,814	4,657	\$338,220

		CO2 Reductions (Tons)	Nox Reductions (Tons)	SO2 Reductions (Tons)	Hg Reductions (lbs)
9	DESOTO	11,817	13.3	7.7	0.09
10	SPACE COAST	4,626	5.2	3.1	0.03
11	MARTIN SOLAR	-152	-0.2	-0.1	0.00
12	Total	16,292	18.3	10.7	0.12

		O&M (\$)	⁽⁴⁾ Carrying Costs (\$)	(5) Capital (\$)	⁽⁶⁾ Other (\$)	Fuel Cost (\$)	Total Cost of Generation (\$)
13	DESOTO	\$179,736	\$3,915,934	\$1,728,876	(\$592,832)	\$0	\$5,231,715
14	SPACE COAST	\$45,935	\$1,813,259	\$784,609	(\$251,484)	\$0	\$2,392,319
15	MARTIN SOLAR	\$1,418,427	\$11,554,481	\$4,076,196	(\$1,608,784)	\$0	\$15,440,320
16	Total	\$1,644,099	\$17,283,674	\$6,589,682	(\$2,453,100)	\$0	\$23,064,354

- (1) Net Generation data represents a calendar month.
- (2) Total System Net Generation from Schedule A3. Fuel Cost per unit data from Schedule A3.
- (3) Fuel Cost per unit data from Schedule 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.