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January 10, 2018

STAFF'S SECOND DATA REQUEST

-VIA ELECTRONIC FILING-

Ms. Carlotta Stauffer, Commission Clerk
Office of the General Counsel
Florida Public Service Commission
2540 Shumard Oak Blvd.
Tallahassee, FL 32399-0850

Re: Docket No. 20170226-EQ - Florida Power & Light Company's Petition for Approval
of Renewable Energy Tariff and Standard Offer Contract

Dear Ms. Stauffer:

Please find enclosed for filing a copy of Florida Power & Light Company's ("FPL")
responses to Staff's Second Data Request in the above mentioned docket.

Thank you for your assistance. Please contact me should you or your staff have any
questions regarding this filing.

Sincerely,

s/ William P. Cox

William P. Cox
Senior Attorney
Florida Bar No. 0093531

WPC/msw
Enclosures

cc: Takira Thompson, Division of Engineering
Rachael Dziechciarz and Stephanie Cuello, Office of the General Counsel

QUESTION:

Please complete the attached table describing payments to a renewable provider based on the proposed tariffs included in the Utility’s revised standard offer contract. Please assume a renewable generator with a 50 MW output providing firm capacity with an in service date of January 1, 2018, operating at the minimum capacity factor required for full capacity payments and a contract duration of 20 years. State the capacity factor assumed for the calculations. Calculate the total Net Present Value (NPV) of all payments in 2018 dollars, and also provide an explanation of the method and rate used to calculate the NPV.

Please provide the completed table for each of the following five scenarios:

- As-available energy (energy only payments)
- Normal capacity payments
- Levelized payments
- Early payments
- Early levelized payments

RESPONSE:

Please see Attachment No. 1 to this response.

Year	Energy (MWh)	Capacity Rate (\$/kw-mo)	Total Capacity Payments (\$)	Energy Rate (\$/MWh)	Total Energy Payments (\$)	Total Payments (\$)
2018						
2019						
2020						
2021						
2022						
2023						
2024						
2025						
2026						
2027						
2028						
2029						
2030						
2031						
2032						
2033						
2034						
2035						
2036						
2037						
Total (nominal)						
Total (NPV)						

2028 Combined Cycle Avoided Unit

Committed Capacity (MW) 50
Capacity Factor (%) 94%
Payment Type: Early

	Energy	Capacity	Total Capacity	Energy Rates	Total Energy	Total
	(MWh)	Rates	Payments		Payments	Payments
		(\$/kW-mo)	(\$)	(\$/MWh)	(\$)	(\$)
2018	411,720	-	-	27.79	11,440,489	11,440,489
2019	411,720	-	-	32.53	13,394,252	13,394,252
2020	412,848	-	-	26.58	10,973,475	10,973,475
2021	411,720	-	-	28.28	11,644,873	11,644,873
2022	411,720	-	-	26.44	10,884,912	10,884,912
2023	411,720	-	-	27.04	11,132,500	11,132,500
2024	412,848	4.22	2,534,312	30.28	12,499,976	15,034,288
2025	411,720	4.33	2,597,670	30.17	12,419,651	15,017,321
2026	411,720	4.44	2,662,611	33.31	13,715,395	16,378,006
2027	411,720	4.55	2,729,177	35.58	14,649,481	17,378,658
2028	412,848	4.66	2,797,406	31.25	12,902,252	15,699,658
2029	411,720	4.78	2,867,341	30.36	12,499,460	15,366,801
2030	411,720	4.90	2,939,025	31.23	12,857,177	15,796,202
2031	411,720	5.02	3,012,501	32.07	13,203,618	16,216,119
2032	412,848	5.15	3,087,813	32.89	13,578,656	16,666,469
2033	411,720	5.28	3,165,008	33.70	13,873,383	17,038,391
2034	411,720	5.41	3,244,134	34.49	14,201,220	17,445,354
2035	411,720	5.54	3,325,237	35.28	14,526,706	17,851,943
2036	412,848	5.68	3,408,368	35.91	14,824,200	18,232,568
2037	411,720	5.82	3,493,577	36.54	15,045,307	18,538,884
Total	8,240,040		41,864,180		260,266,983	302,131,162
2018 NPV @7.57% Discount Rate:			15,847,349		127,845,675	143,693,023

QUESTION:

Provide a reserve margin calculation through December 31, 2028, in the same format as Schedule 7 from the Utility's Ten-Year Site Plan.

RESPONSE:

Please see Attachment No. 1 to this response.

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Schedule 7.1
Forecast of Capacity, Demand, and Scheduled
Maintenance At Time Of Summer Peak

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
August of Year	Firm Installed Capacity MW	Firm Capacity Import MW	Firm Capacity Export MW	Firm QF MW	Total Firm Capacity Available MW	Total Peak Demand MW	DSM MW	Firm Summer Peak Demand MW	Total Reserve Margin Before Maintenance MW	% of Peak	Scheduled Maintenance MW	Total Reserve Margin After Maintenance MW	% of Peak	Generation Only Reserve Margin After Maintenance MW	% of Peak
	2017	26,058	492	0	334	26,884	24,009	1,851	22,157	4,727	21.3	0	4,727	21.3	2,875
2018	26,357	492	0	334	27,182	24,297	1,906	22,391	4,791	21.4	0	4,791	21.4	2,885	11.9
2019	27,011	110	0	4	27,125	24,496	1,950	22,547	4,578	20.3	0	4,578	20.3	2,629	10.7
2020	27,320	110	0	4	27,433	24,605	1,994	22,612	4,822	21.3	0	4,822	21.3	2,828	11.5
2021	27,479	110	0	4	27,592	24,717	2,038	22,679	4,914	21.7	0	4,914	21.7	2,876	11.6
2022	28,889	110	0	4	29,002	24,967	2,083	22,883	6,119	26.7	0	6,119	26.7	4,035	16.2
2023	29,133	110	0	4	29,246	25,338	2,130	23,209	6,037	26.0	0	6,037	26.0	3,908	15.4
2024	29,290	110	0	4	29,404	25,756	2,177	23,579	5,825	24.7	0	5,825	24.7	3,648	14.2
2025	29,286	110	0	4	29,400	26,137	2,224	23,914	5,486	22.9	0	5,486	22.9	3,263	12.5
2026	29,283	110	0	4	29,396	26,552	2,271	24,281	5,115	21.1	0	5,115	21.1	2,844	10.7
2027	29,279	373	0	0	29,652	26,956	2,318	24,639	5,013	20.3	0	5,013	20.3	2,696	10.0
2028	31,026	110	0	0	31,136	27,387	2,364	25,023	6,113	24.4	0	6,113	24.4	3,749	13.7

Col. (2) represents capacity additions and changes projected to be in-service by June 1st. These MW are generally considered to be available to meet summer peak loads which are forecasted to occur during August of the year indicated.

Col. (6) = Col.(2) + Col.(3) - Col(4) + Col(5).

Col.(7) reflects the 2017 load forecast without incremental DSM or cumulative load management.

Col.(8) represents cumulative load management capability, plus incremental conservation and load management, from 9/2016-on intended for use with the 2017 load forecast.

Col.(10) = Col.(6) - Col.(9)

Col.(11) = Col.(10) / Col.(9)

Col.(12) indicates the capacity of units projected to be out-of-service for planned maintenance during the summer peak period.

Col.(13) = Col.(10) - Col.(12)

Col.(14) = Col.(13) / Col.(9)

Col.(15) = Col.(6) - Col.(7) - Col.(12)

Col.(16) = Col.(15) / Col.(7)

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Schedule 7.2
Forecast of Capacity, Demand, and Scheduled
Maintenance At Time Of Winter Peak

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
January of Year	Firm Installed Capacity MW	Firm Capacity Import MW	Firm Capacity Export MW	Firm QF MW	Total Firm Capacity MW	Total Peak Demand MW	DSM MW	Firm Winter Peak Demand MW	Total Reserve Margin Before Maintenance MW	% of Peak	Scheduled Maintenance MW	Total Reserve Margin After Maintenance MW	% of Peak	Generation Only Reserve Margin After Maintenance MW	% of Peak
	2017	27,578	499	0	334	28,411	20,361	1,390	18,971	9,440	49.8	0	9,440	49.8	8,050
2018	27,800	499	0	334	28,633	20,673	1,437	19,236	9,397	48.9	0	9,397	48.9	7,960	38.5
2019	26,954	499	0	334	27,787	20,828	1,461	19,367	8,420	43.5	0	8,420	43.5	6,959	33.4
2020	28,497	110	0	4	28,611	20,978	1,486	19,492	9,119	46.8	0	9,119	46.8	7,633	36.4
2021	28,558	110	0	4	28,672	21,172	1,512	19,660	9,011	45.8	0	9,011	45.8	7,500	35.4
2022	28,558	110	0	4	28,672	21,113	1,538	19,575	9,096	46.5	0	9,096	46.5	7,559	35.8
2023	29,794	110	0	4	29,908	21,289	1,565	19,724	10,184	51.6	0	10,184	51.6	8,619	40.5
2024	29,874	110	0	4	29,988	21,452	1,592	19,860	10,128	51.0	0	10,128	51.0	8,536	39.8
2025	29,874	110	0	4	29,988	21,591	1,621	19,970	10,018	50.2	0	10,018	50.2	8,397	38.9
2026	29,874	110	0	4	29,988	21,773	1,649	20,124	9,864	49.0	0	9,864	49.0	8,215	37.7
2027	29,874	110	0	0	29,984	21,928	1,677	20,251	9,734	48.1	0	9,734	48.1	8,056	36.7
2028	29,874	110	0	0	29,984	22,098	1,706	20,392	9,592	47.0	0	9,592	47.0	7,886	35.7

Col. (2) represents capacity additions and changes projected to be in-service by January 1st. These MW are generally considered to be available to meet winter peak loads which are forecasted to occur during January of the year indicated.

Col. (6) = Col.(2) + Col.(3) - Col(4) + Col(5).

Col.(7) reflects the 2017 load forecast without incremental DSM or cumulative load management.

Col.(8) represents cumulative load management capability, plus incremental conservation and load management, from 9/2016-on intended for use with the 2017 load forecast.

Col.(10) = Col.(6) - Col.(9)

Col.(11) = Col.(10) / Col.(9)

Col.(12) indicates the capacity of units projected to be out-of-service for planned maintenance during the summer peak period.

Col.(13) = Col.(10) - Col.(12)

Col.(14) = Col.(13) / Col.(9)

Col.(15) = Col.(6) - Col.(7) - Col.(12)

Col.(16) = Col.(15) / Col.(7)

QUESTION:

Provide a list of all planned and proposed generating facility additions through December 31, 2028. Also, provide the status report and specifications of each in the same format as Schedule 9 from the Utility's Ten-Year Site Plan.

RESPONSE:

Please see Attachment No. 1 to this response.

Schedule 9
Status Report and Specifications of Proposed Generating Facilities

- (1) **Plant Name and Unit Number:** Horizon Solar Energy Center (Putnam and Alachua Counties)
- (2) **Capacity**
- | | |
|---------------------|---------|
| a. Nameplate (AC) | 74.5 MW |
| b. Summer Firm (AC) | 40.2 MW |
| c. Winter Firm (AC) | - |
- (3) **Technology Type:** Photovoltaic (PV)
- (4) **Anticipated Construction Timing**
- | | |
|-----------------------------------|------|
| a. Field construction start-date: | 2017 |
| b. Commercial In-service date: | 2017 |
- (5) **Fuel**
- | | |
|-------------------|----------------|
| a. Primary Fuel | Solar |
| b. Alternate Fuel | Not applicable |
- (6) **Air Pollution and Control Strategy:** Not applicable
- (7) **Cooling Method:** Not applicable
- (8) **Total Site Area:** 760 Acres (for PV facility)
- (9) **Construction Status:** P (Planned Unit)
- (10) **Certification Status:** ---
- (11) **Status with Federal Agencies:** ---
- (12) **Projected Unit Performance Data:**
- | | |
|--|---------------------------------|
| Planned Outage Factor (POF): | Not applicable |
| Forced Outage Factor (FOF): | Not applicable |
| Equivalent Availability Factor (EAF): | Not applicable |
| Resulting Capacity Factor (%): | 27% (First Full Year Operation) |
| Average Net Operating Heat Rate (ANOHR): | Not applicable |
| Base Operation 75F,100% | |
| Average Net Incremental Heat Rate (ANIHR): | Not applicable |
| Peak Operation 75F,100% | |
- (13) **Projected Unit Financial Data ***
- | | |
|------------------------------------|---|
| Book Life (Years): | 30 years |
| Total Installed Cost (2017 \$/kW): | 1,398 |
| Direct Construction Cost (\$/kW): | 1,345 |
| AFUDC Amount (2017 \$/kW): | 53 |
| Escalation (\$/kW): | Accounted for in Direct Construction Cost |
| Fixed O&M (\$/kW-Yr): (2017 \$) | 4.64 (First Full Year Operation) |
| Variable O&M (\$/MWH): (2017 \$) | 0.00 |
| K Factor: | 1.12 |

* \$/kW values are based on nameplate capacity.

Note: Total installed cost includes transmission interconnection and AFUDC.

Schedule 9
Status Report and Specifications of Proposed Generating Facilities

- | | | |
|------|--|--|
| (1) | Plant Name and Unit Number: | Wildflower Solar Energy Center (Desoto County) |
| (2) | Capacity | |
| | a. Nameplate (AC) | 74.5 MW |
| | b. Summer Firm (AC) | 40.2 MW |
| | c. Winter Firm (AC) | - |
| (3) | Technology Type: | Photovoltaic (PV) |
| (4) | Anticipated Construction Timing | |
| | a. Field construction start-date: | 2017 |
| | b. Commercial In-service date: | 2017 |
| (5) | Fuel | |
| | a. Primary Fuel | Solar |
| | b. Alternate Fuel | Not applicable |
| (6) | Air Pollution and Control Strategy: | Not applicable |
| (7) | Cooling Method: | Not applicable |
| (8) | Total Site Area: | 474 Acres (for PV facility) |
| (9) | Construction Status: | P (Planned Unit) |
| (10) | Certification Status: | --- |
| (11) | Status with Federal Agencies: | --- |
| (12) | Projected Unit Performance Data: | |
| | Planned Outage Factor (POF): | Not applicable |
| | Forced Outage Factor (FOF): | Not applicable |
| | Equivalent Availability Factor (EAF): | Not applicable |
| | Resulting Capacity Factor (%): | 27% (First Full Year Operation) |
| | Average Net Operating Heat Rate (ANOHR): | Not applicable Btu/kWh |
| | Base Operation 75F,100% | |
| | Average Net Incremental Heat Rate (ANIHR): | Not applicable Btu/kWh |
| | Peak Operation 75F,100% | |
| (13) | Projected Unit Financial Data * | |
| | Book Life (Years): | 30 years |
| | Total Installed Cost (2017 \$/kW): | 1,392 |
| | Direct Construction Cost (\$/kW): | 1,339 |
| | AFUDC Amount (2017 \$/kW): | 53 |
| | Escalation (\$/kW): | Accounted for in Direct Construction Cost |
| | Fixed O&M (\$/kW-Yr): (2017 \$) | 4.64 (First Full Year Operation) |
| | Variable O&M (\$/MWH): (2017 \$) | 0.00 |
| | K Factor: | 1.06 |

* \$/kW values are based on nameplate capacity.

Note: Total installed cost includes transmission interconnection and AFUDC.

Schedule 9
Status Report and Specifications of Proposed Generating Facilities

- (1) **Plant Name and Unit Number:** Indian River Solar Energy Center (Indian River County)
- (2) **Capacity**
- | | |
|---------------------|---------|
| a. Nameplate (AC) | 74.5 MW |
| b. Summer Firm (AC) | 40.2 MW |
| c. Winter Firm (AC) | - |
- (3) **Technology Type:** Photovoltaic (PV)
- (4) **Anticipated Construction Timing**
- | | |
|-----------------------------------|------|
| a. Field construction start-date: | 2017 |
| b. Commercial In-service date: | 2017 |
- (5) **Fuel**
- | | |
|-------------------|----------------|
| a. Primary Fuel | Solar |
| b. Alternate Fuel | Not applicable |
- (6) **Air Pollution and Control Strategy:** Not applicable
- (7) **Cooling Method:** Not applicable
- (8) **Total Site Area:** 350 Acres (for PV facility)
- (9) **Construction Status:** P (Planned Unit)
- (10) **Certification Status:** ---
- (11) **Status with Federal Agencies:** ---
- (12) **Projected Unit Performance Data:**
- | | |
|--|---------------------------------|
| Planned Outage Factor (POF): | Not applicable |
| Forced Outage Factor (FOF): | Not applicable |
| Equivalent Availability Factor (EAF): | Not applicable |
| Resulting Capacity Factor (%): | 26% (First Full Year Operation) |
| Average Net Operating Heat Rate (ANOHR): | Not applicable Btu/kWh |
| Base Operation 75F,100% | |
| Average Net Incremental Heat Rate (ANIHR): | Not applicable Btu/kWh |
| Peak Operation 75F,100% | |
- (13) **Projected Unit Financial Data ***
- | | |
|------------------------------------|---|
| Book Life (Years): | 30 years |
| Total Installed Cost (2017 \$/kW): | 1,400 |
| Direct Construction Cost (\$/kW): | 1,344 |
| AFUDC Amount (2017 \$/kW): | 56 |
| Escalation (\$/kW): | Accounted for in Direct Construction Cost |
| Fixed O&M (\$/kW-Yr): (2017 \$) | 4.64 (First Full Year Operation) |
| Variable O&M (\$/MWH): (2017 \$) | 0.00 |
| K Factor: | 1.07 |

* \$/kW values are based on nameplate capacity.

Note: Total installed cost includes transmission interconnection and AFUDC.

Schedule 9
Status Report and Specifications of Proposed Generating Facilities

- | | | | |
|------|--|---|-------------------------|
| (1) | Plant Name and Unit Number: | Coral Farms Solar Energy Center (Putnam County) | |
| (2) | Capacity | | |
| | a. Nameplate (AC) | 74.5 | MW |
| | b. Summer Firm (AC) | 40.2 | MW |
| | c. Winter Firm (AC) | - | |
| (3) | Technology Type: | Photovoltaic (PV) | |
| (4) | Anticipated Construction Timing | | |
| | a. Field construction start-date: | 2017 | |
| | b. Commercial In-service date: | 2017 | |
| (5) | Fuel | | |
| | a. Primary Fuel | Solar | |
| | b. Alternate Fuel | Not applicable | |
| (6) | Air Pollution and Control Strategy: | Not applicable | |
| (7) | Cooling Method: | Not applicable | |
| (8) | Total Site Area: | 311 | Acres (for PV facility) |
| (9) | Construction Status: | P | (Planned Unit) |
| (10) | Certification Status: | --- | |
| (11) | Status with Federal Agencies: | --- | |
| (12) | Projected Unit Performance Data: | | |
| | Planned Outage Factor (POF): | Not applicable | |
| | Forced Outage Factor (FOF): | Not applicable | |
| | Equivalent Availability Factor (EAF): | Not applicable | |
| | Resulting Capacity Factor (%): | 27% (First Full Year Operation) | |
| | Average Net Operating Heat Rate (ANOHR): | Not applicable Btu/kWh | |
| | Base Operation 75F,100% | | |
| | Average Net Incremental Heat Rate (ANIHR): | Not applicable Btu/kWh | |
| | Peak Operation 75F,100% | | |
| (13) | Projected Unit Financial Data * | | |
| | Book Life (Years): | 30 years | |
| | Total Installed Cost (2017 \$/kW): | 1,433 | |
| | Direct Construction Cost (\$/kW): | 1,380 | |
| | AFUDC Amount (2017 \$/kW): | 53 | |
| | Escalation (\$/kW): | Accounted for in Direct Construction Cost | |
| | Fixed O&M (\$/kW-Yr): (2017 \$) | 4.64 (First Full Year Operation) | |
| | Variable O&M (\$/MWH): (2017 \$) | 0.00 | |
| | K Factor: | 1.06 | |

* \$/kW values are based on nameplate capacity.

Note: Total installed cost includes transmission interconnection and AFUDC.

Schedule 9
Status Report and Specifications of Proposed Generating Facilities

- | | | | |
|------|--|---|---|
| (1) | Plant Name and Unit Number: | Hammock Solar Energy Center (Hendry County) | |
| (2) | Capacity | | |
| | a. Nameplate (AC) | 74.5 | MW |
| | b. Summer Firm (AC) | 40.2 | MW |
| | c. Winter Firm (AC) | - | |
| (3) | Technology Type: | Photovoltaic (PV) | |
| (4) | Anticipated Construction Timing | | |
| | a. Field construction start-date: | 2017 | |
| | b. Commercial In-service date: | 2018 | |
| (5) | Fuel | | |
| | a. Primary Fuel | | Solar |
| | b. Alternate Fuel | | Not applicable |
| (6) | Air Pollution and Control Strategy: | Not applicable | |
| (7) | Cooling Method: | Not applicable | |
| (8) | Total Site Area: | 456 | Acres (for PV facility) |
| (9) | Construction Status: | P | (Planned Unit) |
| (10) | Certification Status: | --- | |
| (11) | Status with Federal Agencies: | --- | |
| (12) | Projected Unit Performance Data: | | |
| | Planned Outage Factor (POF): | | Not applicable |
| | Forced Outage Factor (FOF): | | Not applicable |
| | Equivalent Availability Factor (EAF): | | Not applicable |
| | Resulting Capacity Factor (%): | 27% | (First Full Year Operation) |
| | Average Net Operating Heat Rate (ANOHR): | | Not applicable Btu/kWh |
| | Base Operation 75F,100% | | |
| | Average Net Incremental Heat Rate (ANIHR): | | Not applicable Btu/kWh |
| | Peak Operation 75F,100% | | |
| (13) | Projected Unit Financial Data * | | |
| | Book Life (Years): | 30 | years |
| | Total Installed Cost (2018 \$/kW): | 1,391 | |
| | Direct Construction Cost (\$/kW): | 1,336 | |
| | AFUDC Amount (2018 \$/kW): | 55 | |
| | Escalation (\$/kW): | | Accounted for in Direct Construction Cost |
| | Fixed O&M (\$/kW-Yr): (2018 \$) | 4.75 | (First Full Year Operation) |
| | Variable O&M (\$/MWH): (2018 \$) | 0.00 | |
| | K Factor: | 1.11 | |

* \$/kW values are based on nameplate capacity.

Note: Total installed cost includes transmission interconnection and AFUDC.

Schedule 9
Status Report and Specifications of Proposed Generating Facilities

- (1) **Plant Name and Unit Number:** Barefoot Bay Solar Energy Center (Brevard County)
- (2) **Capacity**
- | | |
|---------------------|---------|
| a. Nameplate (AC) | 74.5 MW |
| b. Summer Firm (AC) | 40.2 MW |
| c. Winter Firm (AC) | - |
- (3) **Technology Type:** Photovoltaic (PV)
- (4) **Anticipated Construction Timing**
- | | |
|-----------------------------------|------|
| a. Field construction start-date: | 2017 |
| b. Commercial In-service date: | 2018 |
- (5) **Fuel**
- | | |
|-------------------|----------------|
| a. Primary Fuel | Solar |
| b. Alternate Fuel | Not applicable |
- (6) **Air Pollution and Control Strategy:** Not applicable
- (7) **Cooling Method:** Not applicable
- (8) **Total Site Area:** 462 Acres (for PV facility)
- (9) **Construction Status:** P (Planned Unit)
- (10) **Certification Status:** ---
- (11) **Status with Federal Agencies:** ---
- (12) **Projected Unit Performance Data:**
- | | |
|--|---------------------------------|
| Planned Outage Factor (POF): | Not applicable |
| Forced Outage Factor (FOF): | Not applicable |
| Equivalent Availability Factor (EAF): | Not applicable |
| Resulting Capacity Factor (%): | 27% (First Full Year Operation) |
| Average Net Operating Heat Rate (ANOHR): | Not applicable Btu/kWh |
| Base Operation 75F,100% | |
| Average Net Incremental Heat Rate (ANIHR): | Not applicable Btu/kWh |
| Peak Operation 75F,100% | |
- (13) **Projected Unit Financial Data ***
- | | |
|------------------------------------|---|
| Book Life (Years): | 30 years |
| Total Installed Cost (2018 \$/kW): | 1,530 |
| Direct Construction Cost (\$/kW): | 1,475 |
| AFUDC Amount (2018 \$/kW): | 55 |
| Escalation (\$/kW): | Accounted for in Direct Construction Cost |
| Fixed O&M (\$/kW-Yr): (2018 \$) | 4.75 (First Full Year Operation) |
| Variable O&M (\$/MWH): (2018 \$) | 0.00 |
| K Factor: | 1.09 |

* \$/kW values are based on nameplate capacity.

Note: Total installed cost includes transmission interconnection and AFUDC.

Schedule 9
Status Report and Specifications of Proposed Generating Facilities

- (1) **Plant Name and Unit Number:** Blue Cypress Solar Energy Center (Indian River County)
- (2) **Capacity**
- | | |
|---------------------|---------|
| a. Nameplate (AC) | 74.5 MW |
| b. Summer Firm (AC) | 40.2 MW |
| c. Winter Firm (AC) | - |
- (3) **Technology Type:** Photovoltaic (PV)
- (4) **Anticipated Construction Timing**
- | | |
|-----------------------------------|------|
| a. Field construction start-date: | 2017 |
| b. Commercial In-service date: | 2018 |
- (5) **Fuel**
- | | |
|-------------------|----------------|
| a. Primary Fuel | Solar |
| b. Alternate Fuel | Not applicable |
- (6) **Air Pollution and Control Strategy:** Not applicable
- (7) **Cooling Method:** Not applicable
- (8) **Total Site Area:** 416 Acres (for PV facility)
- (9) **Construction Status:** P (Planned Unit)
- (10) **Certification Status:** ---
- (11) **Status with Federal Agencies:** ---
- (12) **Projected Unit Performance Data:**
- | | |
|--|---------------------------------|
| Planned Outage Factor (POF): | Not applicable |
| Forced Outage Factor (FOF): | Not applicable |
| Equivalent Availability Factor (EAF): | Not applicable |
| Resulting Capacity Factor (%): | 26% (First Full Year Operation) |
| Average Net Operating Heat Rate (ANOHR): | Not applicable Btu/kWh |
| Base Operation 75F,100% | |
| Average Net Incremental Heat Rate (ANIHR): | Not applicable Btu/kWh |
| Peak Operation 75F,100% | |
- (13) **Projected Unit Financial Data ***
- | | |
|------------------------------------|---|
| Book Life (Years): | 30 years |
| Total Installed Cost (2018 \$/kW): | 1,529 |
| Direct Construction Cost (\$/kW): | 1,474 |
| AFUDC Amount (2018 \$/kW): | 55 |
| Escalation (\$/kW): | Accounted for in Direct Construction Cost |
| Fixed O&M (\$/kW-Yr): (2018 \$) | 4.75 (First Full Year Operation) |
| Variable O&M (\$/MWH): (2018 \$) | 0.00 |
| K Factor: | 1.07 |

* \$/kW values are based on nameplate capacity.

Note: Total installed cost includes transmission interconnection and AFUDC.

Schedule 9
Status Report and Specifications of Proposed Generating Facilities

- (1) **Plant Name and Unit Number:** Loggerhead Solar Energy Center (Putnam County)
- (2) **Capacity**
- | | |
|---------------------|---------|
| a. Nameplate (AC) | 74.5 MW |
| b. Summer Firm (AC) | 40.2 MW |
| c. Winter Firm (AC) | - |
- (3) **Technology Type:** Photovoltaic (PV)
- (4) **Anticipated Construction Timing**
- | | |
|-----------------------------------|------|
| a. Field construction start-date: | 2017 |
| b. Commercial In-service date: | 2018 |
- (5) **Fuel**
- | | |
|-------------------|----------------|
| a. Primary Fuel | Solar |
| b. Alternate Fuel | Not applicable |
- (6) **Air Pollution and Control Strategy:** Not applicable
- (7) **Cooling Method:** Not applicable
- (8) **Total Site Area:** 450 Acres (for PV facility)
- (9) **Construction Status:** P (Planned Unit)
- (10) **Certification Status:** ---
- (11) **Status with Federal Agencies:** ---
- (12) **Projected Unit Performance Data:**
- | | |
|--|---------------------------------|
| Planned Outage Factor (POF): | Not applicable |
| Forced Outage Factor (FOF): | Not applicable |
| Equivalent Availability Factor (EAF): | Not applicable |
| Resulting Capacity Factor (%): | 27% (First Full Year Operation) |
| Average Net Operating Heat Rate (ANOHR): | Not applicable Btu/kWh |
| Base Operation 75F,100% | |
| Average Net Incremental Heat Rate (ANIHR): | Not applicable Btu/kWh |
| Peak Operation 75F,100% | |
- (13) **Projected Unit Financial Data ***
- | | |
|------------------------------------|---|
| Book Life (Years): | 30 years |
| Total Installed Cost (2018 \$/kW): | 1,491 |
| Direct Construction Cost (\$/kW): | 1,436 |
| AFUDC Amount (2018 \$/kW): | 55 |
| Escalation (\$/kW): | Accounted for in Direct Construction Cost |
| Fixed O&M (\$/kW-Yr): (2018 \$) | 4.75 (First Full Year Operation) |
| Variable O&M (\$/MWH): (2018 \$) | 0.00 |
| K Factor: | 1.11 |

* \$/kW values are based on nameplate capacity.

Note: Total installed cost includes transmission interconnection and AFUDC.

Schedule 9
Status Report and Specifications of Proposed Generating Facilities

- (1) **Plant Name and Unit Number:** Okeechobee Clean Energy Center
- (2) **Capacity**
a. Summer 1,748 MW
b. Winter 1,754 MW
- (3) **Technology Type:** Combined Cycle
- (4) **Anticipated Construction Timing**
a. Field construction start-date: 2017
b. Commercial In-service date: June, 2019
- (5) **Fuel**
a. Primary Fuel Natural Gas
b. Alternate Fuel Ultra Low Sulfur Distillate
- (6) **Air Pollution and Control Strategy:** Dry Low Nox Burners, SCR, Natural Gas, 0.0015% S. Distillate and Water Injection
- (7) **Cooling Method:** Mechanical Draft Cooling Towers
- (8) **Total Site Area:** 2,842 Acres
- (9) **Construction Status:** U (Under Construction)
- (10) **Certification Status:** ---
- (11) **Status with Federal Agencies:** ---
- (12) **Projected Unit Performance Data:**
Planned Outage Factor (POF): 3.5%
Forced Outage Factor (FOF): 1.0%
Equivalent Availability Factor (EAF): 95.5%
Resulting Capacity Factor (%): Approx. 80% (First Full Year Base Operation)
Average Net Operating Heat Rate (ANOHR): 6,133 Btu/kWh
Base Operation 75F,100%
Average Net Incremental Heat Rate (ANOHR): 7,688 Btu/kWh
Peak Operation 75F,100%
- (13) **Projected Unit Financial Data *,****
Book Life (Years): 40 years
Total Installed Cost (2019 \$/kW): 705
Direct Construction Cost (2019 \$/kW): 630
AFUDC Amount (2019 \$/kW): 74
Escalation (\$/kW): Accounted for in Direct Construction Cost
Fixed O&M (\$/kW-Yr): 16.78
Variable O&M (2019 \$/MWH): 0.26
K Factor: 1.41

* \$/kW values are based on Summer capacity.

** Levelized value includes Fixed O&M and Capital Replacement

Note: Total installed cost includes transmission interconnection and integration, and AFUDC.

Schedule 9
Status Report and Specifications of Proposed Generating Facilities

- | | | |
|------|--|-------------------------------------|
| (1) | Plant Name and Unit Number: | Unsitd Solar |
| (2) | Capacity | |
| | a. Nameplate (AC) | 298 MW (in four 74.5 MW increments) |
| | b. Summer Firm (AC) | 161 MW |
| | c. Winter Firm (AC) | - |
| (3) | Technology Type: | Photovoltaic (PV) |
| (4) | Anticipated Construction Timing | |
| | a. Field construction start-date: | 2018 |
| | b. Commercial In-service date: | 4 th Q, 2019 |
| (5) | Fuel | |
| | a. Primary Fuel | Solar |
| | b. Alternate Fuel | Not applicable |
| (6) | Air Pollution and Control Strategy: | Not applicable |
| (7) | Cooling Method: | Not applicable |
| (8) | Total Site Area: | Not applicable Acres |
| (9) | Construction Status: | P (Planned Unit) |
| (10) | Certification Status: | --- |
| (11) | Status with Federal Agencies: | --- |
| (12) | Projected Unit Performance Data: | |
| | Planned Outage Factor (POF): | Not applicable |
| | Forced Outage Factor (FOF): | Not applicable |
| | Equivalent Availability Factor (EAF): | Not applicable |
| | Resulting Capacity Factor (%): | 27% (First Full Year Operation) |
| | Average Net Operating Heat Rate (ANOHR): | Not applicable |
| | Base Operation 75F,100% | |
| | Average Net Incremental Heat Rate (ANIHR): | Not applicable |
| | Peak Operation 75F,100% | |
| (13) | Projected Unit Financial Data * | |
| | Book Life (Years): | 30 years |
| | Total Installed Cost (2019 \$/kW): | Less than \$1,750/kW |
| | Direct Construction Cost (\$/kW): | --- |
| | AFUDC Amount (2019 \$/kW): | --- |
| | Escalation (\$/kW): | --- |
| | Fixed O&M (\$/kW-Yr): (2019 \$) | --- |
| | Variable O&M (\$/MWH): (2019 \$) | --- |
| | K Factor: | --- |

* \$/kW values are based on nameplate capacity.

Note: Total installed cost includes transmission interconnection and AFUDC.

Schedule 9
Status Report and Specifications of Proposed Generating Facilities

- | | | | |
|------|--|-------------------------------------|----------------|
| (1) | Plant Name and Unit Number: | Unsited Solar | |
| (2) | Capacity | | |
| | a. Nameplate (AC) | 298 MW (in four 74.5 MW increments) | |
| | b. Summer Firm (AC) | 161 MW | |
| | c. Winter Firm (AC) | - | |
| (3) | Technology Type: | Photovoltaic (PV) | |
| (4) | Anticipated Construction Timing | | |
| | a. Field construction start-date: | 2019 | |
| | b. Commercial In-service date: | 4 th Q, 2020 | |
| (5) | Fuel | | |
| | a. Primary Fuel | Solar | |
| | b. Alternate Fuel | Not applicable | |
| (6) | Air Pollution and Control Strategy: | Not applicable | |
| (7) | Cooling Method: | Not applicable | |
| (8) | Total Site Area: | Not applicable | Acres |
| (9) | Construction Status: | P | (Planned Unit) |
| (10) | Certification Status: | --- | |
| (11) | Status with Federal Agencies: | --- | |
| (12) | Projected Unit Performance Data: | | |
| | Planned Outage Factor (POF): | Not applicable | |
| | Forced Outage Factor (FOF): | Not applicable | |
| | Equivalent Availability Factor (EAF): | Not applicable | |
| | Resulting Capacity Factor (%): | 27% (First Full Year Operation) | |
| | Average Net Operating Heat Rate (ANOHR): | Not applicable | |
| | Base Operation 75F,100% | | |
| | Average Net Incremental Heat Rate (ANIHR): | Not applicable | |
| | Peak Operation 75F,100% | | |
| (13) | Projected Unit Financial Data * | | |
| | Book Life (Years): | 30 years | |
| | Total Installed Cost (2020 \$/kW): | Less than \$1,750/kW | |
| | Direct Construction Cost (\$/kW): | --- | |
| | AFUDC Amount (2020 \$/kW): | --- | |
| | Escalation (\$/kW): | --- | |
| | Fixed O&M (\$/kW-Yr): (2020 \$) | --- | |
| | Variable O&M (\$/MWH): (2020 \$) | --- | |
| | K Factor: | --- | |

* \$/kW values are based on nameplate capacity.

Note: Total installed cost includes transmission interconnection and AFUDC.

Schedule 9
Status Report and Specifications of Proposed Generating Facilities

- (1) **Plant Name and Unit Number:** Unsited Solar
- (2) **Capacity**
a. Nameplate (AC) 298 MW (in four 74.5 MW increments)
b. Summer Firm (AC) 161 MW
c. Winter Firm (AC) -
- (3) **Technology Type:** Photovoltaic (PV)
- (4) **Anticipated Construction Timing**
a. Field construction start-date: 2020
b. Commercial In-service date: 4th Q, 2021
- (5) **Fuel**
a. Primary Fuel Solar
b. Alternate Fuel Not applicable
- (6) **Air Pollution and Control Strategy:** Not applicable
- (7) **Cooling Method:** Not applicable
- (8) **Total Site Area:** Not applicable Acres
- (9) **Construction Status:** P (Planned Unit)
- (10) **Certification Status:** ---
- (11) **Status with Federal Agencies:** ---
- (12) **Projected Unit Performance Data:**
Planned Outage Factor (POF): Not applicable
Forced Outage Factor (FOF): Not applicable
Equivalent Availability Factor (EAF): Not applicable
Resulting Capacity Factor (%): 27% (First Full Year Operation)
Average Net Operating Heat Rate (ANOHR): Not applicable
Base Operation 75F,100%
Average Net Incremental Heat Rate (ANIHR): Not applicable
Peak Operation 75F,100%
- (13) **Projected Unit Financial Data ***
Book Life (Years): 30 years
Total Installed Cost (2021 \$/kW): ---
Direct Construction Cost (\$/kW): ---
AFUDC Amount (2021 \$/kW): ---
Escalation (\$/kW): ---
Fixed O&M (\$/kW-Yr): (2021 \$) ---
Variable O&M (\$/MWH): (2021 \$) ---
K Factor: ---

* \$/kW values are based on nameplate capacity.

Note: Total installed cost includes transmission interconnection and AFUDC.

Schedule 9
Status Report and Specifications of Proposed Generating Facilities

- | | | |
|------|--|---|
| (1) | Plant Name and Unit Number: | Lauderdale Modernization (Dania Beach Clean Energy Center) |
| (2) | Capacity | |
| | a. Summer | 1,163 MW |
| | b. Winter | 1,176 MW |
| (3) | Technology Type: | Combined Cycle |
| (4) | Anticipated Construction Timing | |
| | a. Field construction start-date: | 2020 |
| | b. Commercial In-service date: | June, 2022 |
| (5) | Fuel | |
| | a. Primary Fuel | Natural Gas |
| | b. Alternate Fuel | Ultra-low sulfur distillate |
| (6) | Air Pollution and Control Strategy: | Dry Low Nox Burners, SCR, Natural Gas,
0.0015% S. Distillate and Water Injection |
| (7) | Cooling Method: | Once through cooling water |
| (8) | Total Site Area: | Existing Site 392 Acres |
| (9) | Construction Status: | P (Planned Unit) |
| (10) | Certification Status: | --- |
| (11) | Status with Federal Agencies: | --- |
| (12) | Projected Unit Performance Data: | |
| | Planned Outage Factor (POF): | 3.5% |
| | Forced Outage Factor (FOF): | 1.0% |
| | Equivalent Availability Factor (EAF): | 95.5% |
| | Resulting Capacity Factor (%): | 90.0% (First Full Year Base Operation) |
| | Average Net Operating Heat Rate (ANOHR): | 6,119 Btu/kWh on Gas |
| | Base Operation 75F,100% | |
| | Average Net Incremental Heat Rate (ANIHR): | 7,592 Btu/kWh on Gas |
| | Peak Operation 75F,100% | |
| (13) | Projected Unit Financial Data *,** | |
| | Book Life (Years): | 40 years |
| | Total Installed Cost (2022 \$/kW): | 764 |
| | Direct Construction Cost (2022 \$/kW): | 675 |
| | AFUDC Amount (2022 \$/kW): | 89 |
| | Escalation (\$/kW): | Accounted for in Direct Construction Cost |
| | Fixed O&M (\$/kW-Yr): | 19.73 |
| | Variable O&M (2022 \$/MWH): | 0.23 |
| | K Factor: | 1.55 |

* \$/kW values are based on Summer capacity.

** Levelized value includes Fixed O&M and Capital Replacement

Note: Total installed cost includes transmission interconnection and integration, escalation, and AFUDC.

Schedule 9
Status Report and Specifications of Proposed Generating Facilities

- | | | |
|------|--|-------------------------------------|
| (1) | Plant Name and Unit Number: | Unsited Solar |
| (2) | Capacity | |
| | a. Nameplate (AC) | 298 MW (in four 74.5 MW increments) |
| | b. Summer Firm (AC) | 161 MW |
| | c. Winter Firm (AC) | - |
| (3) | Technology Type: | Photovoltaic (PV) |
| (4) | Anticipated Construction Timing | |
| | a. Field construction start-date: | 2021 |
| | b. Commercial In-service date: | 4 th Q, 2022 |
| (5) | Fuel | |
| | a. Primary Fuel | Solar |
| | b. Alternate Fuel | Not applicable |
| (6) | Air Pollution and Control Strategy: | Not applicable |
| (7) | Cooling Method: | Not applicable |
| (8) | Total Site Area: | Not applicable Acres |
| (9) | Construction Status: | P (Planned Unit) |
| (10) | Certification Status: | --- |
| (11) | Status with Federal Agencies: | --- |
| (12) | Projected Unit Performance Data: | |
| | Planned Outage Factor (POF): | Not applicable |
| | Forced Outage Factor (FOF): | Not applicable |
| | Equivalent Availability Factor (EAF): | Not applicable |
| | Resulting Capacity Factor (%): | 27% (First Full Year Operation) |
| | Average Net Operating Heat Rate (ANOHR): | Not applicable |
| | Base Operation 75F,100% | |
| | Average Net Incremental Heat Rate (ANIHR): | Not applicable |
| | Peak Operation 75F,100% | |
| (13) | Projected Unit Financial Data * | |
| | Book Life (Years): | 30 years |
| | Total Installed Cost (2022 \$/kW): | --- |
| | Direct Construction Cost (\$/kW): | --- |
| | AFUDC Amount (2022 \$/kW): | --- |
| | Escalation (\$/kW): | --- |
| | Fixed O&M (\$/kW-Yr): (2022 \$) | --- |
| | Variable O&M (\$/MWH): (2022 \$) | --- |
| | K Factor: | --- |

* \$/kW values are based on nameplate capacity.

Note: Total installed cost includes transmission interconnection and AFUDC.

Schedule 9
Status Report and Specifications of Proposed Generating Facilities

- (1) **Plant Name and Unit Number:** Unsited Solar
- (2) **Capacity**
a. Nameplate (AC) 298 MW (in four 74.5 MW increments)
b. Summer Firm (AC) 161 MW
c. Winter Firm (AC) -
- (3) **Technology Type:** Photovoltaic (PV)
- (4) **Anticipated Construction Timing**
a. Field construction start-date: 2022
b. Commercial In-service date: 4th Q, 2023
- (5) **Fuel**
a. Primary Fuel Solar
b. Alternate Fuel Not applicable
- (6) **Air Pollution and Control Strategy:** Not applicable
- (7) **Cooling Method:** Not applicable
- (8) **Total Site Area:** Not applicable Acres
- (9) **Construction Status:** P (Planned Unit)
- (10) **Certification Status:** ---
- (11) **Status with Federal Agencies:** ---
- (12) **Projected Unit Performance Data:**
Planned Outage Factor (POF): Not applicable
Forced Outage Factor (FOF): Not applicable
Equivalent Availability Factor (EAF): Not applicable
Resulting Capacity Factor (%): 27% (First Full Year Operation)
Average Net Operating Heat Rate (ANOHR): Not applicable
Base Operation 75F,100%
Average Net Incremental Heat Rate (ANIHR): Not applicable
Peak Operation 75F,100%
- (13) **Projected Unit Financial Data ***
Book Life (Years): 30 years
Total Installed Cost (2023 \$/kW): ---
Direct Construction Cost (\$/kW): ---
AFUDC Amount (2023 \$/kW): ---
Escalation (\$/kW): ---
Fixed O&M (\$/kW-Yr): (2023 \$) ---
Variable O&M (\$/MWH): (2023 \$) ---
K Factor: ---

* \$/kW values are based on nameplate capacity.

Note: Total installed cost includes transmission interconnection and AFUDC.

Schedule 9
Status Report and Specifications of Proposed Generating Facilities

- | | | |
|------|--|---|
| (1) | Plant Name and Unit Number: | 2028 Greenfield Combined Cycle |
| (2) | Capacity | |
| | a. Nameplate (AC) | 1,791 MW |
| | b. Summer Firm (AC) | 1,752 MW |
| | c. Winter Firm (AC) | 1,791 MW |
| (3) | Technology Type: | Combined Cycle (CC) |
| (4) | Anticipated Construction Timing | |
| | a. Field construction start-date: | 2026 |
| | b. Commercial In-service date: | 2nd Q, 2028 |
| (5) | Fuel | |
| | a. Primary Fuel | Natural Gas |
| | b. Alternate Fuel | Ultra Low Sulfur Distillate |
| (6) | Air Pollution and Control Strategy: | Dry Low Nox Burners, SCR, Natural Gas,
0.0015% S. Distillate and Water Injection |
| (7) | Cooling Method: | Wet Cooling Tower; Evaporator Coolers |
| (8) | Total Site Area: | Acres |
| (9) | Construction Status: | P (Planned Unit) |
| (10) | Certification Status: | --- |
| (11) | Status with Federal Agencies: | --- |
| (12) | Projected Unit Performance Data: | |
| | Planned Outage Factor (POF): | 3 |
| | Forced Outage Factor (FOF): | 1 |
| | Equivalent Availability Factor (EAF): | 96 |
| | Resulting Capacity Factor (%): | Approx. 83% (First Full Year Operation) |
| | Average Net Operating Heat Rate (ANOHR): | 6,117 Btu/kWh |
| | Base Operation 75F,100% | |
| | Average Net Incremental Heat Rate (ANIHR): | 7,688 Btu/kWh |
| | Peak Operation 75F,100% | |
| (13) | Projected Unit Financial Data * | |
| | Book Life (Years): | 40 years |
| | Total Installed Cost (2028 \$/kW): | 841 |
| | Direct Construction Cost (\$/kW): | 759 |
| | AFUDC Amount (2028 \$/kW): | 82 |
| | Escalation (\$/kW): | Accounted for in Direct Construction Cost |
| | Fixed O&M (\$/kW-Yr): (2028 \$) | 15.59 |
| | Variable O&M (\$/MWH): (2028 \$) | 0.25 |
| | K Factor: | 1.54 |

* \$/kW values are based on Summer capacity.

** Levelized value includes Fixed O&M and Capital Replacement

Note: Total installed cost includes transmission interconnection and integration, and AFUDC.