

William P. Cox Senior Attorney Florida Power & Light Company 700 Universe Boulevard Juno Beach, FL 33408-0420 (561) 304-5662 (561) 691-7135 (Facsimile)

November 27, 2017

#### STAFF'S FIRST 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 First 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

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#### **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	Capacity	Total	Energy	Total	Total
	(MWh)	Rate	Capacity	Rate	Energy	Payments
		(\$/kw-mo)	Payments	(\$/MWh)	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)						

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#### 2027 Greenfield Combined Cycle Avoided Unit

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

	Energy	Capacity Rates	Total Capacity Payments	Energy Rates	Total Energy Payments	Total Payments
	(MWh)	(\$/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	-	-	30.28	12,499,976	12,499,976
2025	411,720	-	-	30.17	12,419,651	12,419,651
2026	411,720	-	-	33.31	13,715,395	13,715,395
2027	411,720	-	-	35.58	14,649,481	14,649,481
2028	412,848	-	-	33.77	13,940,969	13,940,969
2029	411,720	-	-	37.34	15,373,180	15,373,180
2030	411,720	-	-	36.41	14,989,481	14,989,481
2031	411,720	-	-	36.84	15,168,928	15,168,928
2032	412,848	-	-	38.52	15,901,607	15,901,607
2033	411,720	-	-	40.37	16,619,972	16,619,972
2034	411,720	-	-	37.89	15,599,743	15,599,743
2035	411,720	-	-	38.86	16,000,911	16,000,911
2036	412,848	-	-	39.95	16,494,526	16,494,526
2037	411,720	-	-	40.46	16,656,528	16,656,528
Total	8,240,040		-		279,500,849	279,500,849
2018 NPV @	7.57% Discou	ınt Rate:	-		134,264,711	134,264,711

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#### 2027 Greenfield Combined Cycle Avoided Unit

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

	Energy		Total Capacity Payments	Energy Rates	Total Energy Payments	Total Payments	
	(MWh)	(\$/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	-	-	30.28	12,499,976	12,499,976	
2025	411,720	-	-	30.17	12,419,651	12,419,651	
2026	411,720	-	-	33.31	13,715,395	13,715,395	
2027	411,720	7.12	4,269,247	31.59	13,005,597	17,274,844	
2028	412,848	7.26	4,358,465	29.70	12,263,535	16,622,000	
2029	411,720	7.42	4,449,564	30.63	12,609,593	17,059,157	
2030	411,720	7.57	4,542,582	31.51	12,974,152	17,516,735	
2031	411,720	7.73	4,637,562	32.37	13,327,218	17,964,781	
2032	412,848	7.89	4,734,545	33.21	13,709,095	18,443,640	
2033	411,720	8.06	4,833,573	34.03	14,009,847	18,843,420	
2034	411,720	8.22	4,934,690	34.84	14,343,960	19,278,649	
2035	411,720	8.40	5,037,940	35.64	14,675,661	19,713,601	
2036	412,848	8.57	5,143,370	36.28	14,978,534	20,121,903	
2037	411,720	8.75	5,251,024	36.93	15,204,233	20,455,257	
Total	8,240,040		52,192,560		259,206,949	311,399,510	
2018 NPV @	7.57% Discou	ınt Rate:	17,665,063		127,145,751	144,810,815	

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#### 2027 Greenfield Combined Cycle Avoided Unit

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

	Energy		Total Capacity Payments	Energy Rates	Total Energy Payments	Total Payments	
	(MWh)	(\$/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	-	-	30.28	12,499,976	12,499,976	
2025	411,720	-	-	30.17	12,419,651	12,419,651	
2026	411,720	-	-	33.31	13,715,395	13,715,395	
2027	411,720	7.79	4,674,130	31.59	13,005,597	17,679,727	
2028	412,848	7.79	4,674,130	29.70	12,263,535	16,937,665	
2029	411,720	7.79	4,674,130	30.63	12,609,593	17,283,723	
2030	411,720	7.79	4,674,130	31.51	12,974,152	17,648,282	
2031	411,720	7.79	4,674,130	32.37	13,327,218	18,001,348	
2032	412,848	7.79	4,674,130	33.21	13,709,095	18,383,225	
2033	411,720	7.79	4,674,130	34.03	14,009,847	18,683,977	
2034	411,720	7.79	4,674,130	34.84	14,343,960	19,018,089	
2035	411,720	7.79	4,674,130	35.64	14,675,661	19,349,791	
2036	412,848	7.79	4,674,130	36.28	14,978,534	19,652,664	
2037	411,720	7.79	4,674,130	36.93	15,204,233	19,878,362	
Total	8,240,040		51,415,427		259,206,949	310,622,376	
2018 NPV @	97.57% Discou	ınt Rate:	17,665,063		127,145,751	144,810,815	

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#### 2027 Greenfield Combined Cycle Avoided Unit

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

	Energy	Capacity Rates	Total Capacity Payments	Energy Rates	Total Energy Payments	Total Payments
	(MWh)	(\$/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	4.30	2,579,309	27.04	11,132,500	13,711,810
2024	412,848	4.38	2,630,896	30.28	12,499,976	15,130,871
2025	411,720	4.47	2,683,513	30.17	12,419,651	15,103,165
2026	411,720	4.56	2,737,184	33.31	13,715,395	16,452,579
2027	411,720	4.65	2,791,927	31.59	13,005,597	15,797,524
2028	412,848	4.75	2,847,766	29.70	12,263,535	15,111,301
2029	411,720	4.84	2,904,721	30.63	12,609,593	15,514,315
2030	411,720	4.94	2,962,816	31.51	12,974,152	15,936,968
2031	411,720	5.04	3,022,072	32.37	13,327,218	16,349,291
2032	412,848	5.14	3,082,513	33.21	13,709,095	16,791,609
2033	411,720	5.24	3,144,164	34.03	14,009,847	17,154,011
2034	411,720	5.35	3,207,047	34.84	14,343,960	17,551,007
2035	411,720	5.45	3,271,188	35.64	14,675,661	17,946,849
2036	412,848	5.56	3,336,612	36.28	14,978,534	18,315,146
2037	411,720	5.67	3,403,344	36.93	15,204,233	18,607,577
Total	8,240,040		44,605,073		259,206,949	303,812,022
2018 NPV @	7.57% Discou	ınt Rate:	17,665,063		127,145,751	144,810,815

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#### 2027 Greenfield Combined Cycle Avoided Unit

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

	Energy	Capacity Rates	Total Capacity Payments	Energy Rates	Total Energy Payments	Total Payments
	(MWh)	(\$/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	4.83	2,895,535	27.04	11,132,500	14,028,035
2024	412,848	4.83	2,895,535	30.28	12,499,976	15,395,511
2025	411,720	4.83	2,895,535	30.17	12,419,651	15,315,186
2026	411,720	4.83	2,895,535	33.31	13,715,395	16,610,930
2027	411,720	4.83	2,895,535	31.59	13,005,597	15,901,132
2028	412,848	4.83	2,895,535	29.70	12,263,535	15,159,070
2029	411,720	4.83	2,895,535	30.63	12,609,593	15,505,128
2030	411,720	4.83	2,895,535	31.51	12,974,152	15,869,687
2031	411,720	4.83	2,895,535	32.37	13,327,218	16,222,753
2032	412,848	4.83	2,895,535	33.21	13,709,095	16,604,630
2033	411,720	4.83	2,895,535	34.03	14,009,847	16,905,382
2034	411,720	4.83	2,895,535	34.84	14,343,960	17,239,495
2035	411,720	4.83	2,895,535	35.64	14,675,661	17,571,196
2036	412,848	4.83	2,895,535	36.28	14,978,534	17,874,069
2037	411,720	4.83	2,895,535	36.93	15,204,233	18,099,768
Total	8,240,040		43,433,025		259,206,949	302,639,975
2018 NPV @	7.57% Discou	ınt Rate:	17,665,063		127,145,751	144,810,815

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#### **QUESTION**:

Provide a reserve margin calculation through December 31, 2027, in the same format as Schedule 7 from the Company'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)
					Total			Firm	1	Γotal		7	Total	Genera	ation Only
	Firm	Firm	Firm		Firm	Total		Summer	Re	serve		Re	eserve	Re	eserve
	Installed	Capacity	Capacity	Firm	Capacity	Peak		Peak	Margi	in Before	Scheduled	Mar	gin After	Marg	gin After
August of	Capacity	Import	Export	QF	Available	Demand	DSM	Demand	Main	tenance	Maintenance	Main	itenance	Main	tenance
Year	MW	MW	MW	MW	MW	MW	MW	MW	MW	% of Peak	K MW	MW	% of Peak	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	12.0
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

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.(8) represents cumulative load management capability, plus incremental energy efficiency 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)

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

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

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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)
					Total			Firm	To	otal		Т	otal	Genera	ation Only
	Firm	Firm	Firm		Firm	Total		Winter	Res	serve		Re	serve	Re	eserve
	Installed	Capacity	Capacity	Firm	Capacity	Peak		Peak	Margir	Before	Scheduled	Marg	jin After	Marg	gin After
January of	Capacity	Import	Export	QF	Available	Demand	DSM	Demand	Maint	enance	Maintenance	Maint	tenance	Main	tenance
Year	MW	MW	MW	MW	MW	MW	MW	MW	MW	% of Peal	k MW	MW	% of Peak	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	39.5
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

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 energy efficiency or cumulative load management. The 2017 load is an actual load value.

Col.(8) represents cumulative load management capability, plus incremental energy efficiency 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 winter 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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#### **QUESTION**:

Provide a list of all planned and proposed generating facility additions through December 31, 2027. Also, provide the status report and specifications of each in the same format as Schedule 9 from the Company's Ten-Year Site Plan.

#### **RESPONSE**:

Please see Attachment No. 1 to this response.

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## 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: 2017b. 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):

Forced Outage Factor (FOF):

Equivalent Availability Factor (EAF):

Not applicable

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 yearsTotal Installed Cost (2017 \$/kW):1,470Direct Construction Cost (\$/kW):1,417AFUDC 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

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

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### 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)
 b. Summer Firm (AC)
 74.5 MW
 40.2 MW

c. Winter Firm (AC)

(3) **Technology Type:** Photovoltaic (PV)

(4) Anticipated Construction Timing

a. Field construction start-date: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):

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): 1,397
Direct Construction Cost (\$/kW): 1,344
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

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

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## 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)b. Summer Firm (AC)74.5 MW40.2 MW

c. Winter Firm (AC)

(3) **Technology Type:** Photovoltaic (PV)

(4) Anticipated Construction Timing

a. Field construction start-date: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):

Forced Outage Factor (FOF):

Equivalent Availability Factor (EAF):

Not applicable

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): 1,541
Direct Construction Cost (\$/kW): 1,485
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

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

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# 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)b. Summer Firm (AC)74.5 MW40.2 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):

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 yearsTotal Installed Cost (2017 \$/kW):1,438Direct Construction Cost (\$/kW):1,385AFUDC 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

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

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### 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)
 b. Summer Firm (AC)
 74.5 MW
 40.2 MW

c. Winter Firm (AC)

(3) **Technology Type:** Photovoltaic (PV)

(4) Anticipated Construction Timing

a. Field construction start-date: 2017b. 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):

Forced Outage Factor (FOF):

Equivalent Availability Factor (EAF):

Not applicable

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):

Total Installed Cost (2018 \$/kW):

Direct Construction Cost (\$/kW):

AFUDC Amount (2018 \$/kW):

30 years

1,521

1,466

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

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

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### 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)
 b. Summer Firm (AC)
 74.5 MW
 40.2 MW

c. Winter Firm (AC)

(3) **Technology Type:** Photovoltaic (PV)

(4) Anticipated Construction Timing

a. Field construction start-date: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):

Forced Outage Factor (FOF):

Equivalent Availability Factor (EAF):

Not applicable

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):

Total Installed Cost (2018 \$/kW):

Direct Construction Cost (\$/kW):

AFUDC Amount (2018 \$/kW):

30 years

1,551

1,496

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

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

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# 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)
 b. Summer Firm (AC)
 74.5 MW
 40.2 MW

c. Winter Firm (AC)

(3) **Technology Type:** Photovoltaic (PV)

(4) Anticipated Construction Timing

a. Field construction start-date: 2017b. 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):

Forced Outage Factor (FOF):

Equivalent Availability Factor (EAF):

Not applicable

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):

Total Installed Cost (2018 \$/kW):

Direct Construction Cost (\$/kW):

AFUDC Amount (2018 \$/kW):

30 years

1,549

1,494

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

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

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## 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: 2017b. 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):

Forced Outage Factor (FOF):

Equivalent Availability Factor (EAF):

Not applicable

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):

Total Installed Cost (2018 \$/kW):

Direct Construction Cost (\$/kW):

AFUDC Amount (2018 \$/kW):

30 years

1,513

1,458

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

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

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#### 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 MWb. Winter 1,754 MW

(3) Technology Type: Combined Cycle

(4) Anticipated Construction Timing

a. Field construction start-date: 2017b. 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):

Total Installed Cost ( 2019 \$/kW):

Direct Construction Cost (2019 \$/kW):

AFUDC Amount (2019 \$/kW):

40 years

705

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

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

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

<sup>\*\*</sup> Levelized value includes Fixed O&M and Capital Replacement

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# 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:
b. Commercial In-service date:
4<sup>th</sup> 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):

Forced Outage Factor (FOF):

Equivalent Availability Factor (EAF):

Not applicable

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

Total Installed Cost (2019 \$/kW): Less than \$1,750.

Direct Construction Cost (\$/kW): ---

AFUDC Amount (2019 \$/kW): --Escalation (\$/kW): --Fixed O&M (\$/kW-Yr): (2019 \$) --Variable O&M (\$/MWH): (2019 \$)
K Factor: ---

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

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## 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<sup>th</sup> 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):

Forced Outage Factor (FOF):

Equivalent Availability Factor (EAF):

Not applicable

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:

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

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## 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: 4<sup>th</sup> 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):

Forced Outage Factor (FOF):

Equivalent Availability Factor (EAF):

Not applicable

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: ---

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

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## 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. Summerb. Winter1,163 MW1,176 MW

(3) **Technology Type:** Combined Cycle

(4) Anticipated Construction Timing

a. Field construction start-date: 2020b. 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 yearsTotal Installed Cost (2022 \$/kW):764Direct Construction Cost (2022 \$/kW):675AFUDC 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

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

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

<sup>\*\*</sup> Levelized value includes Fixed O&M and Capital Replacement

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## 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<sup>th</sup> 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):

Forced Outage Factor (FOF):

Equivalent Availability Factor (EAF):

Not applicable

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: ---

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

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## 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: 4<sup>th</sup> 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):

Forced Outage Factor (FOF):

Equivalent Availability Factor (EAF):

Not applicable

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: ---

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

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#### Schedule 9 Status Report and Specifications of Proposed Generating Facilities

(1) Plant Name and Unit Number: 2027 Avoided Unit

(2) Capacity

a. Summerb. Winter1,752 MW1,768 MW

(3) Technology Type: Combined Cycle

(4) Anticipated Construction Timing

a. Field construction start-date: 2025b. Commercial In-service date: June, 2027

(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: --- 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 (%): Approx. 95% (First Full Year Base Operation)

Average Net Operating Heat Rate (ANOHR): 6,119 Btu/kWh

Base Operation 75F,100%

Average Net Incremental Heat Rate (ANOHR): 7,646 Btu/kWh

Peak Operation 75F,100%

(13) Projected Unit Financial Data \*,\*\*

 Book Life (Years):
 40 years

 Total Installed Cost ( 2027 \$/kW):
 791

 Direct Construction Cost (2027 \$/kW):
 721

 AFUDC Amount (2027 \$/kW):
 70

Escalation (\$/kW): Accounted for in Direct Construction Cost

 Fixed O&M (\$/kW-Yr):
 15.33

 Variable O&M (2027 \$/MWH):
 0.29

 K Factor:
 1.51

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

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

<sup>\*\*</sup> Levelized value includes Fixed O&M and Capital Replacement