

QUESTION:

Please refer to FPL's response to Staff's First Set of Interrogatories No. 13 for the following questions:

- a. Please provide FPL's 7/27/2015 base case natural gas and light fuel oil short term and long term price forecasts (annualized and monthly).
- b. Please provide FPL's 7/27/2015 high band natural gas and light fuel oil short term and long term price forecasts (annualized and monthly).
- c. Please provide FPL's 7/27/2015 low band natural gas and light fuel oil short term and long term forecasts (annualized and monthly).
- d. Please provide CPVRR first stage analyses, similar to that provided in Exhibit SRS-4 of FPL Witness Dr. Sim's Direct Testimony, based on FPL's 7/27/2015 base case, high band, and low band natural gas and light fuel oil price forecasts.
- e. Please provide CPVRR second stage analyses, similar to that provided in Exhibit SRS-5 of FPL Witness Dr. Sim's Direct Testimony, based on FPL's 7/27/2015 base case, high band, and low band natural gas and light fuel oil price forecasts.

RESPONSE:

- a. Please see Attachment No. 1 (Table Staff-62 (Part a), (Part b), and (Part c)).
- b. Please see Attachment No. 1 (Table Staff-62 (Part a), (Part b), and (Part c)).
- c. Please see Attachment No. 1 (Table Staff-62 (Part a), (Part b), and (Part c)).
- d. Staff Interrogatory 62 d & e requested that FPL update two analyses that FPL had performed as part of its overall next planned generating unit (NPGU) analyses in 2014 and early 2015. The request was to update these analyses substituting FPL's July 27, 2015 fuel cost forecast for the fuel cost forecasts that were used at the time for each of the two analyses.

The updated analyses utilize this July 2015 fuel cost forecast (low, base, and high bands). However, FPL has also updated a number of other inputs to the analyses. These other updates include:

- A new October 2015 load forecast; and,
- Various other assumptions that were not then available and, therefore, had not been utilized during each stage/step in the NPGU analyses, but which were updated and incorporated into FPL's 2015 Ten-Year Site Plan, including: (i) the 2016 PV additions, (ii) the new schedule for GT replacements in Broward and Lee counties, (iii) the mutually agreed upon decision with Cedar Bay to sell that generating unit to FPL and FPL's plans to subsequently retire that unit, and (iv) the 2027/2028 in-service dates for Turkey Point 6 & 7.

Utilizing all of these updated assumptions and forecasts, FPL performed three scenario analyses. One scenario utilizes the July 2015 base case fuel cost forecast, another scenario utilizes the July 2015 low band fuel cost forecast, and the third scenario utilizes the July 2015 high band fuel cost forecast.

FPL has combined key generating options analyzed in the two previous, separate stages of analyses presented in Exhibits SRS-4 and SRS-5 into one set of analyses which examines the following self-build generating options. Please see Attachment No. 2 (Table Staff-62 (Parts d & e)):

- The 1,622 MW OCEC Unit 1 that was designated as FPL's NPGU in the capacity RFP;

- An enhanced 1,633 MW version of the OCEC Unit 1 (as referenced on page 36 of FPL witness Sim's direct testimony);
- Enhanced CT designs of 231 MW (Summer) capacity in 5 x 0, 6 x 0, and 7 x 0 configurations; and,
- The two most competitive non-GE CC units from the original analyses.

As shown in this response, the original 1,622 MW OCEC Unit 1 is still projected to be more economic than any of the CT and non-GE generation options; thus, the overall conclusions and recommendations reflected in the Petition for a determination of need and the supporting pre-filed testimony remain unchanged.

- e. Please see the response to subpart (d) above.

Table Staff-62 (Part a)

FPL July 27, 2015 Fuel Price Forecast: Base Case

1. Forecast of Annual Fuel Prices:

Year	Weighted Average FGT Firm Gas (\$/MMBTU)	Weighted Average GULFSTREAM Firm Gas (\$/MMBTU)	FSC Firm From Sabal Trail Gas (\$/MMBTU)	Light(Distillate) Fuel Oil (\$/MMBTU)
2019	\$4.23	\$4.10	\$4.15	\$17.95
2020	\$5.25	\$5.10	\$5.13	\$20.88
2021	\$5.66	\$5.50	\$5.52	\$21.72
2022	\$5.96	\$5.80	\$5.81	\$22.80
2023	\$6.21	\$6.04	\$6.05	\$23.84
2024	\$6.40	\$6.23	\$6.23	\$25.21
2025	\$6.59	\$6.41	\$6.42	\$26.55
2026	\$6.79	\$6.61	\$6.61	\$27.30
2027	\$7.00	\$6.81	\$6.81	\$28.05
2028	\$7.21	\$7.01	\$7.01	\$28.74
2029	\$7.42	\$7.22	\$7.22	\$29.38
2030	\$7.64	\$7.44	\$7.43	\$30.03
2031	\$7.87	\$7.66	\$7.65	\$30.85
2032	\$8.10	\$7.89	\$7.87	\$31.67
2033	\$8.34	\$8.13	\$8.10	\$32.49
2034	\$8.51	\$8.29	\$8.26	\$33.32
2035	\$8.68	\$8.45	\$8.42	\$34.17
2036	\$8.96	\$8.73	\$8.69	\$34.97
2037	\$9.25	\$9.01	\$8.97	\$35.79
2038	\$9.55	\$9.31	\$9.26	\$36.63
2039	\$9.87	\$9.61	\$9.56	\$37.49
2040	\$10.19	\$9.93	\$9.87	\$38.38
2041	\$10.52	\$10.25	\$10.19	\$39.28
2042	\$10.86	\$10.58	\$10.52	\$40.21
2043	\$11.22	\$10.93	\$10.86	\$41.16
2044	\$11.58	\$11.29	\$11.21	\$42.14
2045	\$11.96	\$11.66	\$11.57	\$43.14
2046	\$12.35	\$12.04	\$11.95	\$44.16
2047	\$12.75	\$12.43	\$12.33	\$45.21
2048	\$13.17	\$12.83	\$12.73	\$46.29
2049	\$13.59	\$13.25	\$13.15	\$47.39

II. Forecast of Monthly Fuel Prices:

Month-Year	Weighted FGT Firm Gas (\$/MMBTU)	Weighted Average GULFSTREAM Firm Gas (\$/MMBTU)	FSC Firm From Sabal Trail Gas (\$/MMBTU)	Light(Distillate) Fuel Oil (\$/MMBTU)
Jan-19	\$4.45	\$4.33	\$4.37	\$16.57
Feb-19	\$4.16	\$4.05	\$4.10	\$17.09
Mar-19	\$4.07	\$3.97	\$4.01	\$17.90
Apr-19	\$4.17	\$4.03	\$4.06	\$18.37
May-19	\$4.27	\$4.14	\$4.17	\$18.18
Jun-19	\$4.21	\$4.07	\$4.10	\$18.34
Jul-19	\$4.39	\$4.25	\$4.28	\$18.61
Aug-19	\$4.05	\$3.92	\$3.96	\$18.43
Sep-19	\$3.97	\$3.84	\$3.88	\$18.34
Oct-19	\$4.14	\$4.01	\$4.04	\$18.12
Nov-19	\$4.43	\$4.33	\$4.40	\$18.04
Dec-19	\$4.43	\$4.32	\$4.39	\$17.46
Jan-20	\$5.52	\$5.39	\$5.41	\$19.24
Feb-20	\$5.17	\$5.04	\$5.07	\$19.85
Mar-20	\$5.06	\$4.93	\$4.96	\$20.81
Apr-20	\$5.17	\$5.01	\$5.03	\$21.37

Oct-25	\$6.45	\$6.26	\$6.26	\$6.45
Nov-25	\$6.92	\$6.76	\$6.76	\$6.92
Dec-25	\$6.91	\$6.75	\$6.75	\$6.91
Jan-26	\$7.16	\$6.98	\$6.98	\$7.16
Feb-26	\$6.69	\$6.53	\$6.53	\$6.69
Mar-26	\$6.55	\$6.39	\$6.39	\$6.55
Apr-26	\$6.68	\$6.49	\$6.49	\$6.68
May-26	\$6.86	\$6.66	\$6.66	\$6.86
Jun-26	\$6.75	\$6.56	\$6.56	\$6.75
Jul-26	\$7.04	\$6.84	\$6.84	\$7.04
Aug-26	\$6.50	\$6.31	\$6.31	\$6.50
Sep-26	\$6.36	\$6.18	\$6.18	\$6.36
Oct-26	\$6.65	\$6.45	\$6.45	\$6.65
Nov-26	\$7.13	\$6.97	\$6.97	\$7.13
Dec-26	\$7.12	\$6.95	\$6.95	\$7.12
Jan-27	\$7.37	\$7.19	\$7.19	\$7.37
Feb-27	\$6.90	\$6.73	\$6.73	\$6.90
Mar-27	\$6.75	\$6.58	\$6.58	\$6.75
Apr-27	\$6.88	\$6.69	\$6.69	\$6.88
May-27	\$7.07	\$6.86	\$6.86	\$7.07
Jun-27	\$6.95	\$6.75	\$6.75	\$6.95
Jul-27	\$7.25	\$7.04	\$7.04	\$7.25
Aug-27	\$6.70	\$6.50	\$6.50	\$6.70
Sep-27	\$6.56	\$6.37	\$6.37	\$6.56
Oct-27	\$6.85	\$6.65	\$6.65	\$6.85
Nov-27	\$7.35	\$7.18	\$7.18	\$7.35
Dec-27	\$7.34	\$7.16	\$7.16	\$7.34
Jan-28	\$7.59	\$7.41	\$7.41	\$7.59
Feb-28	\$7.10	\$6.93	\$6.93	\$7.10
Mar-28	\$6.95	\$6.78	\$6.78	\$6.95
Apr-28	\$7.09	\$6.89	\$6.89	\$7.09
May-28	\$7.28	\$7.07	\$7.07	\$7.28
Jun-28	\$7.16	\$6.96	\$6.96	\$7.16
Jul-28	\$7.47	\$7.26	\$7.26	\$7.47
Aug-28	\$6.90	\$6.70	\$6.70	\$6.90
Sep-28	\$6.75	\$6.56	\$6.56	\$6.75
Oct-28	\$7.05	\$6.85	\$6.85	\$7.05
Nov-28	\$7.57	\$7.39	\$7.39	\$7.57
Dec-28	\$7.82	\$7.38	\$7.38	\$7.82
Jan-29	\$7.32	\$7.14	\$7.14	\$7.32
Feb-29	\$7.16	\$6.99	\$6.99	\$7.16
Mar-29	\$7.30	\$7.09	\$7.09	\$7.30
May-29	\$7.50	\$7.28	\$7.28	\$7.50
Jun-29	\$7.38	\$7.17	\$7.17	\$7.38
Jul-29	\$7.69	\$7.47	\$7.47	\$7.69
Aug-29	\$7.10	\$6.90	\$6.90	\$7.10
Sep-29	\$6.95	\$6.75	\$6.75	\$6.95
Oct-29	\$7.26	\$7.05	\$7.05	\$7.26
Nov-29	\$7.80	\$7.61	\$7.61	\$7.80
Dec-29	\$7.78	\$7.60	\$7.60	\$7.78
Jan-30	\$8.06	\$7.86	\$7.86	\$8.06
Feb-30	\$7.54	\$7.35	\$7.35	\$7.54
Mar-30	\$7.38	\$7.20	\$7.20	\$7.38
Apr-30	\$7.52	\$7.31	\$7.31	\$7.52
May-30	\$7.72	\$7.50	\$7.50	\$7.72
Jun-30	\$7.60	\$7.38	\$7.38	\$7.60
Jul-30	\$7.92	\$7.70	\$7.70	\$7.92
Aug-30	\$7.31	\$7.11	\$7.11	\$7.31
Sep-30	\$7.16	\$6.96	\$6.96	\$7.16
Oct-30	\$7.48	\$7.26	\$7.26	\$7.48
Nov-30	\$8.02	\$7.84	\$7.84	\$8.02
Dec-30	\$8.02	\$7.84	\$7.84	\$8.02
Jan-31	\$8.30	\$8.09	\$8.09	\$8.30
Feb-31	\$7.76	\$7.57	\$7.57	\$7.76

Aug-36	\$8.57	\$8.33	\$8.30	\$35.94
Sep-36	\$8.39	\$8.16	\$8.13	\$35.77
Oct-36	\$8.76	\$8.52	\$8.48	\$35.30
Nov-36	\$9.42	\$9.20	\$9.18	\$35.14
Dec-36	\$9.76	\$9.52	\$9.48	\$32.87
Jan-37	\$9.13	\$8.91	\$8.87	\$33.97
Mar-37	\$8.93	\$8.72	\$8.68	\$35.68
Apr-37	\$9.10	\$8.85	\$8.81	\$36.67
May-37	\$9.34	\$9.09	\$9.04	\$36.28
Jun-37	\$9.19	\$8.94	\$8.89	\$36.60
Jul-37	\$9.59	\$9.33	\$9.27	\$37.17
Aug-37	\$8.85	\$8.61	\$8.57	\$36.79
Sep-37	\$8.67	\$8.43	\$8.39	\$36.61
Oct-37	\$9.05	\$8.80	\$8.76	\$36.13
Nov-37	\$9.73	\$9.50	\$9.48	\$35.97
Dec-37	\$9.71	\$9.48	\$9.47	\$34.75
Jan-38	\$10.08	\$9.83	\$9.78	\$33.64
Feb-38	\$9.43	\$9.20	\$9.16	\$34.76
Mar-38	\$9.22	\$9.00	\$8.96	\$36.52
Apr-38	\$9.40	\$9.14	\$9.09	\$37.53
May-38	\$9.65	\$9.38	\$9.33	\$37.13
Jun-38	\$9.49	\$9.23	\$9.18	\$37.46
Jul-38	\$9.90	\$9.63	\$9.57	\$38.04
Aug-38	\$9.14	\$8.89	\$8.84	\$37.66
Sep-38	\$8.95	\$8.70	\$8.66	\$37.47
Oct-38	\$9.34	\$9.09	\$9.04	\$36.98
Nov-38	\$10.04	\$9.81	\$9.78	\$36.81
Dec-38	\$10.03	\$9.79	\$9.77	\$35.57
Jan-39	\$10.40	\$10.15	\$10.10	\$34.43
Feb-39	\$9.73	\$9.50	\$9.45	\$35.58
Mar-39	\$9.53	\$9.30	\$9.25	\$37.38
Apr-39	\$9.70	\$9.44	\$9.38	\$38.42
May-39	\$9.96	\$9.69	\$9.63	\$38.01
Jun-39	\$9.80	\$9.53	\$9.48	\$38.34
Jul-39	\$10.22	\$9.94	\$9.88	\$38.94
Aug-39	\$9.44	\$9.18	\$9.13	\$38.54
Sep-39	\$9.24	\$8.99	\$8.94	\$38.36
Oct-39	\$9.65	\$9.38	\$9.33	\$37.85
Nov-39	\$10.37	\$10.13	\$10.10	\$37.68
Dec-39	\$10.35	\$10.11	\$10.09	\$36.41
Jan-40	\$10.74	\$10.49	\$10.42	\$35.24
Feb-40	\$10.05	\$9.81	\$9.76	\$36.42
Mar-40	\$9.84	\$9.60	\$9.55	\$38.26
Apr-40	\$10.02	\$9.75	\$9.69	\$39.32
May-40	\$10.28	\$10.01	\$9.94	\$38.90
Jun-40	\$10.12	\$9.85	\$9.78	\$39.24
Jul-40	\$10.55	\$10.27	\$10.20	\$39.86
Aug-40	\$9.74	\$9.48	\$9.42	\$39.45
Sep-40	\$9.54	\$9.28	\$9.23	\$39.26
Oct-40	\$9.96	\$9.69	\$9.63	\$38.75
Nov-40	\$10.71	\$10.46	\$10.42	\$38.57
Dec-40	\$10.69	\$10.44	\$10.41	\$37.26
Jan-41	\$11.09	\$10.83	\$10.76	\$36.07
Feb-41	\$10.38	\$10.13	\$10.07	\$37.27
Mar-41	\$10.16	\$9.91	\$9.86	\$39.16
Apr-41	\$10.34	\$10.06	\$10.00	\$40.25
May-41	\$10.62	\$10.33	\$10.26	\$39.82
Jun-41	\$10.45	\$10.17	\$10.10	\$40.17
Jul-41	\$10.90	\$10.60	\$10.53	\$40.80
Aug-41	\$10.06	\$9.79	\$9.73	\$40.39
Sep-41	\$9.85	\$9.58	\$9.53	\$40.19
Oct-41	\$10.28	\$10.01	\$9.94	\$39.66
Nov-41	\$11.06	\$10.80	\$10.76	\$39.48
Dec-41	\$11.04	\$10.78	\$10.74	\$38.14

Jun-47	\$12.66	\$12.33	\$12.86	\$12.75	\$46.24
Jul-47	\$13.20	\$11.87	\$12.86	\$11.77	\$46.97
Aug-47	\$12.19	\$11.62	\$11.87	\$11.53	\$46.26
Sep-47	\$11.94	\$11.62	\$11.87	\$11.53	\$46.26
Oct-47	\$12.46	\$12.13	\$12.13	\$12.04	\$45.65
Nov-47	\$13.41	\$13.09	\$13.09	\$13.02	\$45.44
Dec-47	\$13.38	\$13.07	\$13.07	\$13.00	\$43.89
Jan-48	\$13.89	\$13.56	\$13.56	\$13.45	\$42.47
Feb-48	\$12.99	\$12.68	\$12.68	\$12.59	\$43.90
Mar-48	\$12.72	\$12.41	\$12.41	\$12.32	\$46.14
Apr-48	\$12.94	\$12.60	\$12.60	\$12.50	\$47.43
May-48	\$13.29	\$12.94	\$12.94	\$12.83	\$46.92
Jun-48	\$13.07	\$12.73	\$12.73	\$12.62	\$47.34
Jul-48	\$13.63	\$13.28	\$13.28	\$13.16	\$48.09
Aug-48	\$12.59	\$12.26	\$12.26	\$12.15	\$47.60
Sep-48	\$12.32	\$12.00	\$12.00	\$11.90	\$47.36
Oct-48	\$12.87	\$12.53	\$12.53	\$12.43	\$46.73
Nov-48	\$13.85	\$13.52	\$13.52	\$13.44	\$46.52
Dec-48	\$13.82	\$13.50	\$13.50	\$13.42	\$44.93
Jan-49	\$14.34	\$14.00	\$14.00	\$13.88	\$43.47
Feb-49	\$13.42	\$13.10	\$13.10	\$12.99	\$44.94
Mar-49	\$13.13	\$12.82	\$12.82	\$12.72	\$47.24
Apr-49	\$13.37	\$13.01	\$13.01	\$12.90	\$48.57
May-49	\$13.72	\$13.36	\$13.36	\$13.24	\$48.04
Jun-49	\$13.50	\$13.15	\$13.15	\$13.03	\$48.47
Jul-49	\$14.08	\$13.71	\$13.71	\$13.59	\$49.24
Aug-49	\$13.00	\$12.66	\$12.66	\$12.55	\$48.73
Sep-49	\$12.73	\$12.39	\$12.39	\$12.29	\$48.49
Oct-49	\$13.29	\$12.94	\$12.94	\$12.83	\$47.85
Nov-49	\$14.30	\$13.96	\$13.96	\$13.87	\$47.63
Dec-49	\$14.27	\$13.94	\$13.94	\$13.85	\$46.00

Results of Updated Analyses of FPL Self-Build Generating Options  
(Using Updated Assumptions Including new Forecasts for Fuel Cost and Load)

original  
version

I. Results Using July 2015 Fuel Cost Forecast: Base Case

Rank	CC/CT Type	Manufacturer / Model	Summer Capacity (MW)	With Duct Firing?	With Peak Firing and Wet Compression?	Difference From Lowest Cost Resource Plan (CPVRR, millions)
1	3 x 1 CC	GE 7HA.02	1,633	No	Yes	---
2	3 x 1 CC	GE 7HA.02	1,622	No	Yes	\$49
3	6 x 0 CT	GE 7FA.05	1,386	No	No	\$78
4	7 x 0 CT	GE 7FA.05	1,617	No	No	\$92
5	5 x 0 CT	GE 7FA.05	1,155	No	No	\$113
6	3 x 1 CC	Mitsubishi J	1,418	Yes	No	\$496
7	3 x 1 CC	Siemens H	1,322	Yes	No	\$535

II. Results Using July 2015 Fuel Cost Forecast: Low Band

Rank	CC/CT Type	Manufacturer / Model	Summer Capacity (MW)	With Duct Firing?	With Peak Firing and Wet Compression?	Difference From Lowest Cost Resource Plan (CPVRR, millions)
1	3 x 1 CC	GE 7HA.02	1,633	No	Yes	---
2	3 x 1 CC	GE 7HA.02	1,622	No	Yes	\$52
3	6 x 0 CT	GE 7FA.05	1,386	No	No	\$13
4	7 x 0 CT	GE 7FA.05	1,617	No	No	\$28
5	5 x 0 CT	GE 7FA.05	1,155	No	No	\$57
6	3 x 1 CC	Mitsubishi J	1,418	Yes	No	\$487
7	3 x 1 CC	Siemens H	1,322	Yes	No	\$515

III. Results Using July 2015 Fuel Cost Forecast: High Band

Rank	CC/CT Type	Manufacturer / Model	Summer Capacity (MW)	With Duct Firing?	With Peak Firing and Wet Compression?	Difference From Lowest Cost Resource Plan (CPVRR, millions)
1	3 x 1 CC	GE 7HA.02	1,633	No	Yes	---
2	3 x 1 CC	GE 7HA.02	1,622	No	Yes	\$70
3	6 x 0 CT	GE 7FA.05	1,386	No	No	\$159
4	7 x 0 CT	GE 7FA.05	1,617	No	No	\$180
5	5 x 0 CT	GE 7FA.05	1,155	No	No	\$185
6	3 x 1 CC	Mitsubishi J	1,418	Yes	No	\$509
7	3 x 1 CC	Siemens H	1,322	Yes	No	\$562

Notes:

- CPVRR values are in 2015\$.
- All generating options are assumed to be sited at FPL's Okeechobee site.
- All analyses were performed using FPL's most current planning assumptions as presented in FPL's 2015 Site Plan.
- A number of these assumptions are updates to inputs utilized in the NPGU analysis which preceded the 2015 Site Plan. In addition, two additional updates have been used in these analyses: the Oct 2015 load forecast and the July 2015 fuel cost forecast.
- The CC unit in the first row of each table represents an enhanced design 1,633 MW version of OCEC Unit 1 (as referred to on page 36 of FPL witness Sims' direct testimony).
- The CC unit in the second row of each table represents the 1,622 MW OCEC Unit 1 design that was designated as FPL's NPGU and which was discussed in FPL's direct and rebuttal testimonies as OCEC Unit 1.
- The generating options in rows 3 through 7 represent enhanced designs of CT options and/or the best non-GB CC designs identified in Exhibits SRS-4 or Exhibit SRS-5, 2nd Step, of FPL witness Sims' direct testimony.

Corrected  
Version

Results of Updated Analyses of FPL Self-Build Generating Options  
(Using Updated Assumptions Including new Forecasts for Fuel Cost and Load)

I. Results Using July 2015 Fuel Cost Forecast: Base Case

CC/CT Type	Manufacturer / Model	Summer Capacity (MW)	With Duct Firing?	With Peak Firing and Wet Compression?	Difference From Lowest Cost Resource Plan (CPVRR, millions)
3 x 1 CC	GE 7HA.02	1,633	No	Yes	---
3 x 1 CC	GE 7HA.02	1,622	No	Yes	\$35
6 x 0 CT	GE 7FA.05	1,386	No	No	\$72
7 x 0 CT	GE 7FA.05	1,617	No	No	\$90
5 x 0 CT	GE 7FA.05	1,155	No	No	\$106
3 x 1 CC	Mitsubishi J	1,418	Yes	No	\$482
3 x 1 CC	Siemens H	1,322	Yes	No	\$522

II. Results Using July 2015 Fuel Cost Forecast: Low Band

CC/CT Type	Manufacturer / Model	Summer Capacity (MW)	With Duct Firing?	With Peak Firing and Wet Compression?	Difference From Lowest Cost Resource Plan (CPVRR, millions)
3 x 1 CC	GE 7HA.02	1,633	No	Yes	---
3 x 1 CC	GE 7HA.02	1,622	No	Yes	\$28
6 x 0 CT	GE 7FA.05	1,386	No	No	\$8
7 x 0 CT	GE 7FA.05	1,617	No	No	\$25
5 x 0 CT	GE 7FA.05	1,155	No	No	\$50
3 x 1 CC	Mitsubishi J	1,418	Yes	No	\$474
3 x 1 CC	Siemens H	1,322	Yes	No	\$501

III. Results Using July 2015 Fuel Cost Forecast: High Band

CC/CT Type	Manufacturer / Model	Summer Capacity (MW)	With Duct Firing?	With Peak Firing and Wet Compression?	Difference From Lowest Cost Resource Plan (CPVRR, millions)
3 x 1 CC	GE 7HA.02	1,633	No	Yes	---
3 x 1 CC	GE 7HA.02	1,622	No	Yes	\$56
6 x 0 CT	GE 7FA.05	1,386	No	No	\$153
7 x 0 CT	GE 7FA.05	1,617	No	No	\$177
5 x 0 CT	GE 7FA.05	1,155	No	No	\$178
3 x 1 CC	Mitsubishi J	1,418	Yes	No	\$495
3 x 1 CC	Siemens H	1,322	Yes	No	\$549

Notes:

- CPVRR values are in 2015\$.
- All generating options are assumed to be sited at FPL's Okeechobee site.
- All analyses were performed using FPL's most current planning assumptions as presented in FPL's 2015 Site Plan.
- A number of these assumptions are updates to inputs utilized in the NPGU analysis which preceded the 2015 Site Plan. In addition, two additional updates have been used in these analyses: the Oct.2015 load forecast and the July 2015 fuel cost forecast.
- The CC unit in the first row of each table represents an enhanced design 1,633 MW version of OCEC Unit 1 (as referred to on page 36 of FPL witness Sims's direct testimony).
- The CC unit in the second row of each table represents the 1,622 MW OCEC Unit 1 design that was designated as FPL's NPGU and which was discussed in FPL's direct and rebuttal testimonies as OCEC Unit 1.
- The generating options in rows 3 through 7 represent enhanced designs of CT options and/or the best non-GE CC designs identified in Exhibits SRS-4 or Exhibit SRS-5, 2nd Step, of FPL witness Sims's direct testimony.

Revised

Update to Exhibit SRS - 2

Projection of FPL's Resource Needs: 2015 through 2020

with updated assumptions (Load Forecast and Unit Capabilities)

(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12)  
 = (1) + (2) - (3) = (5) - (6) = (4) - (7) = (8) / (7) = ((7) \* 1.20) / (4) = ((4) - (5)) / (5) = ((5) \* 1.10) - (4)

August of the Year	Projected FPL Unit Capacity * (MW)	Projected Firm Capacity Purchases * (MW)	Projected Scheduled Maintenance (MW)	Projected Total Capacity (MW)	Projected Peak Load (MW)	Projected Summer DSM Capacity ** (MW)	Projected Firm Peak Load (MW)	Projected Summer Reserves (MW)	Projected Summer Total Reserve Margin w/o Additions in 2019 & 2020 (%)	Projected	
										Projected Total MW Needed to Meet 20% Total Reserve Margin*** (MW)	Projected Total MW Needed to Meet 10% GRM**** (MW)
2015	25,008	2,015	0	27,022	22,959	1,951	21,008	6,014	28.6%	(1,813)	---
2016	26,027	837	0	26,863	24,170	2,000	22,170	4,693	21.2%	(259)	---
2017	26,003	837	0	26,840	24,336	2,046	22,290	4,549	20.4%	(91)	---
2018	26,004	1,014	0	27,018	24,606	2,092	22,514	4,504	20.0%	(1)	---
2019	26,024	455	0	26,478	24,893	2,140	22,753	3,725	16.4%	826	6.4%
2020	26,023	455	0	26,478	25,206	2,188	23,018	3,460	15.0%	1,144	5.0%

\* MW values shown in Columns (1) & (2) include, but are not limited to, the following: the completion of the Port Everglades modernization project in 2016, the retirement of 44 of the 48 existing GTs in late 2016, the addition of 5 new CTs at the Lauderdale site and 2 CTs at the Ft. Myers site in late 2016, the addition of 116 MW of firm PV in late 2016, the upgraded capacity of Ft. Myers 3A & 3B in late 2016, and the addition of an unspecified one-year 177 MW PPA in 2018.

\*\* The DSM values shown in Column (6) account for incremental DSM additions as per the 2014 DSM Goals docket for 2015 through 2020, and for projected annual participant attrition in FPL's existing residential load management program.

\*\*\* MW values shown in Column (10) represent new generating capacity needed to meet the 20% total reserve margin criterion.

\*\*\*\* MW values shown in Column (12) represent new generating capacity needed to meet the 10% generation-only reserve margin criterion (GRM) which must be met beginning in 2019.

Original

Projection of FPL's Resource Needs: 2015 through 2020  
Exhibit SRS-2, Page 1 of 1

Projection of FPL's Resource Needs: 2015 through 2020

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
				= (1) + (2) - (3)			= (5) - (6)	= (4) - (7)	= (8) / (7)	= ((7)*1.20)/(4)	= ((4)-(5)) / (5)	= ((5)*1.10)/(4)
August of the Year	Projected FPL Unit Capacity (MW)	Projected Firm Capacity Purchases * (MW)	Projected Scheduled Maintenance (MW)	Projected Total Capacity (MW)	Projected Peak Load (MW)	Projected Summer DSM Capacity ** (MW)	Projected Firm Peak Load (MW)	Projected Summer Reserves (MW)	Projected Summer Total Reserve Margin w/o Additions in 2019 & 2020 (%)	Projected Total MW Needed to Meet 20% Total Reserve Margin*** (MW)	Projected Generation-Only Reserve Margin (GRM) w/o Additions in 2019 & 2020 (%)	Projected Total MW Needed to Meet 10% GRM**** (MW)
2015	25,008	2,015	0	27,022	23,286	1,951	21,335	5,688	26.7%	(1,421)	---	---
2016	25,585	837	0	26,421	23,778	2,000	21,779	4,643	21.3%	(287)	---	---
2017	26,002	837	0	26,838	24,252	2,046	22,207	4,632	20.9%	(190)	---	---
2018	26,023	1,044	0	27,067	24,648	2,092	22,555	4,512	20.0%	(1)	---	---
2019	26,043	455	0	26,498	25,045	2,140	22,905	3,593	15.7%	988	5.8%	1,052
2020	26,043	455	0	26,498	25,369	2,188	23,181	3,316	14.3%	1,320	4.4%	1,409

\* MW values shown in Columns (1) & (2) include, but are not limited to, the following: the completion of the Port Everglades modernization project in 2016, the retirement of 44 of the 48 existing GTs in late 2016, the addition of 5 new CTs at the Lauderdale site and 2 CTs at the Ft. Myers site in late 2016, the addition of 116 MW of firm PV in late 2016, the upgraded capacity of Ft. Myers 3A & 3B in late 2016, and the addition of an unspecified one-year 207 MW PPA in 2018.

\*\* The DSM values shown in Column (6) account for incremental DSM additions as per the 2014 DSM Goals docket for 2015 through 2020, and for projected annual participant attrition in FPL's existing residential load management program.

\*\*\* MW values shown in Column (10) represent new generating capacity needed to meet the 20% total reserve margin criterion.

\*\*\*\* MW values shown in Column (12) represent new generating capacity needed to meet the 10% generation-only reserve margin criterion (GRM) which must be met beginning in 2019.