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FPL's Response to Staff's First Set of
Interrogatories, Nos. 1 & 2

(including attachments for No. 1)

QUESTION:

Please refer to witness Prieto's testimony, Page 14, Line 12 through Page 15, Line 11 for the following questions.

- a. Please identify the estimated annual and cumulative net system cost values over the life of the Sweatt-Whidden Transmission Project (SWP), Alternative I and Alternative II (in nominal and net present value). This should include the following categories at a minimum: Equipment & Installation, Land, Right-of-Way, and Operation & Maintenance (O&M) for the project. If applicable, please also include the impacts on FPL's system, including System Dispatch (reporting Fuel and Emissions separately), Avoided Generation, Avoided Transmission, and Avoided Fixed O&M. Please provide these responses in electronic (excel) format.
- b. Please detail the assumptions, facts and figures used to determine the value of each of the categories discussed in your response to 1a.
- c. Please identify the total projected annual bill impact (at 1,000 kWh) on the general body of customers' monthly bills for each of the alternatives.
- d. Please describe any routing, Right-of-Way, or Land Acquisition difficulties FPL expects for the presented options.

RESPONSE:

- a. Please refer to worksheet INT 1(a) in Attachment No. 1 containing annual revenue requirements, in nominal and present value terms (assuming 7.49% weighted average cost of capital), for (1) the Sweatt-Whidden Transmission Project (SWP), (2) Alternative I, and (3) Alternative II. The net present values for SWP and Alternatives I and II are discounted to the current year, 2022. The cumulative present value of revenue requirements (CPVRR) is \$226.4 MM for SWP, \$300.3 MM for Alternative I, and \$236.5 MM for Alternative II.
- b. Please refer to worksheet INT 1(b) in Attachment No. 1.
- c. The table below provides the \$/MWh projected annual bill impacts for the general body of customers for the first 20 years of operations associated with SWP and each of the alternatives.

Florida Power & Light Company
Docket No. 20220045-EI
Staff's First Set of Interrogatories
Interrogatory No. 1
Page 2 of 2

	A	B	C	D	E	F	G
	SR-70 Selected	SR-70 Alt 1 (Ft Drum- Whidden)	SR-70 Alt 2 (Martin- Whidden)	Forecasted Total Sales	SR-70 Selected	SR-70 Alt 1 (Ft Drum- Whidden)	SR-70 Alt 2 (Martin- Whidden)
Year	(\$ MM)	(\$ MM)	(\$ MM)	(GWh)	(\$/MWh x 12)	(\$/MWh x 12)	(\$/MWh x 12)
2024	\$2.4	\$3.2	\$2.5	125,179	\$0.24	\$0.36	\$0.24
2025	\$15.6	\$20.8	\$16.3	126,660	\$1.44	\$1.92	\$1.56
2026	\$27.6	\$36.8	\$28.8	127,874	\$2.64	\$3.48	\$2.64
2027	\$26.9	\$35.8	\$27.9	129,058	\$2.52	\$3.36	\$2.64
2028	\$26.1	\$34.8	\$27.2	130,563	\$2.40	\$3.24	\$2.52
2029	\$25.4	\$33.9	\$26.5	132,261	\$2.28	\$3.12	\$2.40
2030	\$24.8	\$33.0	\$25.8	133,915	\$2.28	\$3.00	\$2.28
2031	\$24.2	\$32.1	\$25.2	135,772	\$2.16	\$2.88	\$2.28
2032	\$23.6	\$31.3	\$24.5	137,973	\$2.04	\$2.76	\$2.16
2033	\$23.0	\$30.5	\$23.9	140,354	\$1.92	\$2.64	\$2.04
2034	\$22.4	\$29.7	\$23.3	142,882	\$1.92	\$2.52	\$1.92
2035	\$21.7	\$28.8	\$22.6	145,538	\$1.80	\$2.40	\$1.92
2036	\$21.1	\$28.0	\$22.0	148,216	\$1.68	\$2.28	\$1.80
2037	\$20.5	\$27.2	\$21.4	150,894	\$1.68	\$2.16	\$1.68
2038	\$19.9	\$26.3	\$20.8	153,577	\$1.56	\$2.04	\$1.68
2039	\$19.3	\$25.5	\$20.1	156,236	\$1.44	\$1.92	\$1.56
2040	\$18.8	\$24.8	\$19.6	158,882	\$1.44	\$1.92	\$1.44
2041	\$18.4	\$24.3	\$19.2	160,074	\$1.32	\$1.80	\$1.44
2042	\$18.1	\$23.9	\$18.9	161,274	\$1.32	\$1.80	\$1.44
2043	\$17.8	\$23.5	\$18.6	162,484	\$1.32	\$1.68	\$1.32
First 20 Years	\$417.6	\$554.1	\$435.1	2,859,667	\$1.80	\$2.28	\$1.80

- d. FPL is not currently aware of any routing, right-of-way, or land acquisition difficulties FPL expects for the presented options. Please note that FPL intends to submit its Transmission Line Siting Act application for its preferred corridor in mid to late April, 2022.

QUESTION:

Please refer to witness Prieto's testimony, Page 13, Line 17 through Page 14, Line 2. Please explain if non-transmission alternatives were considered. If so, explain why these alternatives were not selected. If not, explain why not.

RESPONSE:

As part of the transmission planning process, FPL includes the utilization of demand-side management ("DSM") in the Project Service Area (*i.e.*, the area that would be served by the proposed Sweatt-Whidden 230kV transmission line) to mitigate potential transmission line overloads. Other non-transmission alternatives were not considered viable alternatives as part of the analyses of the SWP.

Generation Alternatives

Generation alternatives, such as siting a new generator in the Project Service Area, were not considered viable for the following reasons:

- Siting and constructing new generation within the Project Service Area along with the additional transmission facilities to interconnect and integrate would go above and beyond what is presently required by the proposed project at a significant increase in cost.
- The need to improve reliability by providing loop service for the FPL customers served from the existing 69 kV circuit between Okeechobee and Whidden substation is not solved by adding generation in the Project Service Area.
- The need to provide an additional transmission path to increase east to west power transfer capabilities is not solved by adding generation in the Project Service Area.

For these reasons, a generation alternative was not considered further.

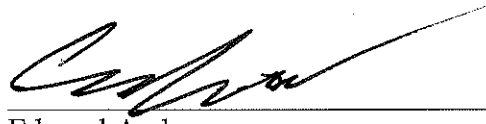
Distribution Alternatives

Distribution alternatives, such as expanding existing substations, were not considered viable because expansion of existing distribution substations will not address the needs met by the SWP for improving reliability by providing loop transmission service and providing an additional transmission path to increase east to west power transfer capabilities. Accordingly, a distribution alternative was not considered further.

DECLARATION

I, Edward Anderson, co-sponsored the answer to Interrogatory No. 1 from Staff's First Set of Interrogatories to Florida Power & Light Company in Docket No. 20220045-EI, and the response is true and correct based on my personal knowledge.

Under penalties of perjury, I declare that I have read the foregoing declaration and the interrogatory answer identified above, and that the facts stated therein are true.

A handwritten signature in black ink, appearing to read 'Edward Anderson', is written over a horizontal line.

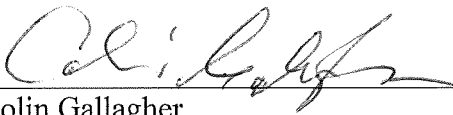
Edward Anderson

Date: 4/14/2022

DECLARATION

I, Colin Gallagher, co-sponsored the answer to Interrogatory No. 1 from Staff's First Set of Interrogatories to Florida Power & Light Company in Docket No. 20220045-EI, and the response is true and correct based on my personal knowledge.

Under penalties of perjury, I declare that I have read the foregoing declaration and the interrogatory answer identified above, and that the facts stated therein are true.


Colin Gallagher

Date: 4/14/22

DECLARATION

I, Frank Prieto, sponsored the answer to Interrogatory No. 2 and co-sponsored the answer to Interrogatory No. 1 from Staff's First Set of Interrogatories to Florida Power & Light Company in Docket No. 20220045-EI, and the responses are true and correct based on my personal knowledge.

Under penalties of perjury, I declare that I have read the foregoing declaration and the interrogatory answers identified above, and that the facts stated therein are true.

Frank Prieto

Frank Prieto

Date: April 14, 2022