

Doug Wright

From: Landaeta Gutierrez, Stephany <landsg@jea.com>
Sent: Wednesday, July 17, 2019 12:32 PM
To: Patti Zellner; Doug Wright
Cc: Moran, Mary L. - Mgr Electric Generation Planning; Phillip Ellis; Laura King; Jenny Wu; Jeff Doehling; Donald Phillips
Subject: RE: DN 20190000-OT - Ten-Year Site Plans Supplemental Data Request #2 (JEA)
Attachments: Revised Schedule 2&3.xlsx; TYSP Supplemental Data Request 2 _ JEA Response.pdf

Good afternoon Patti and Doug,

Please find attached the TYSP Supplemental Data Request #2 and Revised Schedules 2.1, 2.2, 3.1 and 3.2. The PDF has also been uploaded in the Commission's website.

Let me know if you have any questions.

Thank you,
Stephany Landaeta

From: Patti Zellner <PZELLNER@PSC.STATE.FL.US>
Sent: Tuesday, July 2, 2019 3:50 PM
To: Moran, Mary L. - Mgr Electric Generation Planning <GuytML@jea.com>; Landaeta Gutierrez, Stephany <landsg@jea.com>
Cc: Doug Wright <dwright@psc.state.fl.us>; Phillip Ellis <PELLIS@PSC.STATE.FL.US>; Laura King <LKing@PSC.STATE.FL.US>; Patti Zellner <PZELLNER@PSC.STATE.FL.US>; Jenny Wu <JWU@PSC.STATE.FL.US>; Jeff Doehling <JDOEHLIN@psc.state.fl.us>; Donald Phillips <DPhillip@psc.state.fl.us>
Subject: DN 20190000-OT - Ten-Year Site Plans Supplemental Data Request #2 (JEA)

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Sent on behalf of Douglas Wright, Florida Public Service Commission:

Dear Ms. Guyton-Baker and Ms. Gutierrez:

Re: Review of the 2019 Ten-Year Site Plans for Florida's Electric Utilities Supplemental Data Request #2

Please electronically file all responses to Staff's Supplemental Data Request #2 below, no later than **Wednesday, July 24, 2019**, via the Commission's website at www.floridapsc.com by selecting the Clerk's Office tab and Electronic Filing Web Form. Please reference 20190000-OT (Undocketed filings for 2019). In addition, please email responses to Doug Wright at dwright@psc.state.fl.us.

If you have any questions, please contact Doug Wright by phone at (850) 413-6682 or at the email address provided above, or contact Phillip Ellis by phone at (850) 413-6626 or by email at pellis@psc.state.fl.us.

Forecasting

1. Please refer to Schedules 2.2 “History and Forecast of Energy Consumption and Number of Customers by Customer Class” presented in JEA’s 2019 Ten Year Site Plan (TYSP), page 24; 2018 TYSP, page 23; 2017 TYSP, page 21; and 2016 TYSP, page 20. With respect to the history, or actual, data in column (13) “Total Sales to Ultimate Customers,” please explain why the numbers reported in 2019 TYSP are different from what the Company reported in its previous TYSPs as indicated in Table 1 below; and provide the correct history sales data for the period 2009 through 2018.

Table 1: Discrepancy on History Data of Total Sales Reported in Different Years' Ten Year Site Plan

Year	Actual Total Sales to Ultimate Customers (GWH)			
	JEA Reported In Its			
	2016 TYSP	2017 TYSP	2018 TYSP	2019 TYSP
2006	12,616			
2007	12,649	12,649		
2008	12,413	12,413	12,413	
2009	12,103	12,103	12,103	12,299
2010	12,666	12,660	12,660	12,666
2011	11,966	11,966	11,966	12,176
2012	11,462	11,462	11,462	11,666
2013	11,340	11,340	11,340	11,666
2014	11,713	11,713	11,713	11,934
2015	11,664	11,664	11,664	12,091
2016		11,949	11,949	12,164
2017			11,603	12,030
2018				12,926

Data sources: History data presented in column (13) "Total Sales to Ultimate Customers" of Schedule 2.2 "History and Forecast Energy Consumption and Number of Customers by Class" of corresponding years' Ten Year Site Plans.

2. With respect to the forecasting methodology, procedure, and accuracy associated with JEA’s forecast of “Total Sales to Ultimate Customers,” please specify all the differences/ modifications/ improvements, if any, between JEA’s 2018 TYSP and 2019 TYSP.

Flood Mitigation

3. Please explain the Utility’s planning process for flood mitigation for current and proposed power plant sites and transmission/distribution substations.

Sincerely,
Patti Zellner
Administrative Assistant
Division of Engineering
Phone: (850) 413-6208
Fax: (850) 413-6209

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Florida has a very broad Public Records Law. Virtually all written communications to or from State and Local Officials and employees are public records available to the public and media upon request. Any email sent to or from JEA's system may be considered a public record and subject to disclosure under Florida's Public Records Laws. Any information deemed confidential and exempt from Florida's Public Records Laws should be clearly marked. Under Florida law, e-mail addresses are public records. If you do not want your e-mail address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact JEA by phone or in writing.

Schedule 2.1: History and Forecast of Energy Consumption and Number of Customers By Class

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Year	Rural and Residential			Commercial			Industrial		
	GWH Sales	Average Number of Customers	Average kWh/ Customer	GWH Sales	Average Number of Customers	Average kWh/ Customer	GWH Sales	Average Number of Customers	Average kWh/ Customer
2009	5,319	368,111	14,448	4,024	45,748	87,957	2,643	226	11,694,690
2010	5,747	369,051	15,572	4,071	46,192	88,137	2,720	223	12,192,753
2011	5,237	369,761	14,163	3,927	46,605	84,255	2,682	215	12,469,585
2012	4,880	372,430	13,102	3,852	47,127	81,735	2,598	218	11,908,327
2013	4,852	377,326	12,860	3,777	47,691	79,204	2,589	219	11,812,928
2014	5,162	383,998	13,443	3,882	49,364	78,642	2,564	215	11,951,824
2015	5,197	391,219	13,285	4,001	50,821	78,733	2,579	207	12,438,487
2016	5,351	398,387	13,431	4,064	51,441	78,994	2,457	202	12,159,793
2017	5,199	404,806	12,842	4,011	51,970	77,176	2,532	202	12,510,027
2018	5,460	412,070	13,251	4,042	52,525	76,954	2,524	196	12,853,285
2019	5,273	418,407	12,602	4,117	53,462	77,002	2,636	197	13,381,002
2020	5,305	424,939	12,484	4,143	54,101	76,585	2,644	197	13,419,308
2021	5,331	431,420	12,356	4,178	54,735	76,327	2,647	197	13,435,434
2022	5,363	437,973	12,245	4,210	55,360	76,051	2,651	197	13,458,984
2023	5,400	444,544	12,147	4,240	55,976	75,754	2,653	197	13,467,742
2024	5,434	450,901	12,050	4,267	56,587	75,411	2,653	197	13,465,143
2025	5,472	457,010	11,973	4,294	57,194	75,069	2,654	197	13,473,457
2026	5,518	462,846	11,922	4,320	57,796	74,739	2,636	197	13,382,349
2027	5,571	468,446	11,892	4,345	58,394	74,414	2,669	197	13,547,028
2028	5,631	473,963	11,881	4,371	58,988	74,105	2,674	197	13,573,227

Schedule 2.2: History and Forecast of Energy Consumption and Number of Customers By Class

Year	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
	Street & Highway Lighting GWH	Other Sales to Ultimate Customers GWH	Total Sales to Ultimate Customers GWH	Sales For Resale GWH	Utility Use & Losses GWH	Net Energy For Load GWH	Other Customers (Avg. Number)	Total Number of Customers
2009	120	0	12,105	591	458	13,155	2	414,086
2010	122	0	12,660	617	569	13,846	2	415,468
2011	123	0	11,968	589	424	12,980	2	416,583
2012	123	0	11,452	585	374	12,411	2	419,777
2013	122	0	11,340	395	550	12,286	2	425,238
2014	105	0	11,713	472	473	12,658	2	433,578
2015	87	0	11,864	392	612	12,868	2	442,249
2016	77	0	11,949	490	498	12,937	2	450,032
2017	63	0	11,805	288	578	12,672	2	456,981
2018	59	0	12,085	82	646	12,813	1	464,793
2019	53	0	12,078	42	575	12,696	1	472,067
2020	52	0	12,144	42	578	12,765	1	479,238
2021	51	0	12,206	43	583	12,832	1	486,353
2022	52	0	12,276	43	587	12,907	1	493,531
2023	53	0	12,346	43	593	12,982	1	500,719
2024	53	0	12,407	43	598	13,048	1	507,686
2025	54	0	12,474	44	603	13,120	1	514,402
2026	55	0	12,529	44	626	13,199	1	520,840
2027	56	0	12,641	44	597	13,282	1	527,039
2028	56	0	12,732	44	589	13,366	1	533,149

Schedule 3.1: History and Forecast of Summer Peak Demand

(1) Calendar Year	(2) Total Demand	(3) Interruptible Load	(4) PEV	(5) Load Management		(7) QF Load Served by QF Generation	(8) Cumulative Conservation		(10) Net Firm Peak Demand	(11) Time Of Peak				(12)
				Residential	Comm/Ind.		Residential	Comm/Ind.		Month	Day	H.E.	Temp	
2009	2,754	0	0	0	0	0	0	0	2,754	6	22	1600	98	
2010	2,817	0	0	0	0	0	0	0	2,817	6	18	1700	102	
2011	2,756	0	0	0	0	0	0	0	2,756	8	11	1700	98	
2012	2,616	0	0	0	0	0	0	0	2,616	7	25	1700	95	
2013	2,596	0	0	0	0	0	0	0	2,596	8	14	1600	93	
2014	2,646	0	0	0	0	0	0	0	2,646	8	22	1600	99	
2015	2,683	0	0	0	0	0	0	0	2,683	6	17	1600	97	
2016	2,763	0	0	0	0	0	0	0	2,763	7	7	1700	98	
2017	2,682	0	0	0	0	0	0	0	2,682	8	16	1700	96	
2018	2,557	0	0	0	0	0	0	0	2,557	8	8	1500	90	
2019	2,664	105	1	0	0	0	2	2	2,556	---	---	---	---	
2020	2,678	105	2	0	0	0	5	3	2,567	---	---	---	---	
2021	2,692	105	2	0	0	0	7	5	2,577	---	---	---	---	
2022	2,707	105	2	0	0	0	10	6	2,588	---	---	---	---	
2023	2,722	105	3	0	0	0	12	8	2,600	---	---	---	---	
2024	2,735	105	4	0	0	0	14	10	2,610	---	---	---	---	
2025	2,747	105	4	0	0	0	17	11	2,619	---	---	---	---	
2026	2,758	105	5	0	0	0	19	13	2,627	---	---	---	---	
2027	2,772	105	6	0	0	0	22	14	2,637	---	---	---	---	
2028	2,787	105	7	0	0	0	24	16	2,649	---	---	---	---	

Schedule 3.2: History and Forecast of Winter Peak Demand

(1) Calendar Year	(2) Total Demand	(3) Interruptible Load	(4) PEV	(5) Load Management		(7) QF Load Served by QF Generation	(8) Cumulative Conservation		(10) Net Firm Peak Demand	(11) Time Of Peak				(12)
				Residential	Comm/Ind.		Residential	Comm/Ind.		Month	Day	H.E.	Temp	
2009	3,064	0	0	0	0	0	0	0	3,064	2	6	800	23	
2010	3,224	0	0	0	0	0	0	0	3,224	1	11	800	20	
2011	3,062	0	0	0	0	0	0	0	3,062	1	14	800	23	
2012	2,665	0	0	0	0	0	0	0	2,665	1	4	800	22	
2013	2,559	0	0	0	0	0	0	0	2,559	2	18	800	24	
2014	2,823	0	0	0	0	0	0	0	2,823	1	7	800	22	
2015	2,863	0	0	0	0	0	0	0	2,863	2	20	800	24	
2016	2,674	0	0	0	0	0	0	0	2,674	1	20	800	28	
2017	2,480	0	0	0	0	0	0	0	2,480	1	9	800	30	
2018	3,080	0	0	0	0	0	0	0	3,080	1	8	800	26	
2019	2,819	102	0	0	0	0	2	1	2,715	---	---	---	---	
2020	2,843	102	0	0	0	0	4	2	2,735	---	---	---	---	
2021	2,863	102	0	0	0	0	6	4	2,752	---	---	---	---	
2022	2,882	102	1	0	0	0	8	5	2,768	---	---	---	---	
2023	2,904	102	1	0	0	0	10	6	2,787	---	---	---	---	
2024	2,922	102	1	0	0	0	11	7	2,802	---	---	---	---	
2025	2,939	102	1	0	0	0	13	8	2,816	---	---	---	---	
2026	2,957	102	1	0	0	0	15	10	2,832	---	---	---	---	
2027	2,977	102	2	0	0	0	17	11	2,849	---	---	---	---	
2028	3,000	102	2	0	0	0	19	12	2,869	---	---	---	---	

Schedule 3.3: History and Forecast of Annual Net Energy For Load

(1) Calendar Year	(2) Total Energy For Load	(3) Interruptible Load	(4) PEV	(5) Load Management		(7) QF Load Served by QF Generation	(8) Cumulative Conservation		(10) Net Energy For Load	(11) Load Factor
				Residential	Comm/Ind.		Residential	Comm/Ind.		
2009	13,155	0	0	0	0	0	0	0	13,155	49%
2010	13,846	0	0	0	0	0	0	0	13,846	49%
2011	12,980	0	0	0	0	0	0	0	12,980	48%
2012	12,411	0	0	0	0	0	0	0	12,411	53%
2013	12,286	0	0	0	0	0	0	0	12,286	54%
2014	12,658	0	0	0	0	0	0	0	12,658	51%
2015	12,868	0	0	0	0	0	0	0	12,868	51%
2016	12,937	0	0	0	0	0	0	0	12,937	53%
2017	12,672	0	0	0	0	0	0	0	12,672	54%
2018	12,813	0	0	0	0	0	0	0	12,813	47%
2019	12,716	0	6	0	0	0	13	13	12,696	53%
2020	12,809	0	8	0	0	0	26	26	12,765	53%
2021	12,899	0	10	0	0	0	38	39	12,832	53%
2022	12,997	0	12	0	0	0	51	52	12,907	53%
2023	13,095	0	15	0	0	0	64	65	12,982	53%
2024	13,184	0	19	0	0	0	77	78	13,048	53%
2025	13,278	0	23	0	0	0	90	91	13,120	53%
2026	13,378	0	28	0	0	0	102	104	13,199	53%
2027	13,481	0	33	0	0	0	115	117	13,282	53%
2028	13,585	0	39	0	0	0	128	130	13,366	53%