

State of Florida



Public Service Commission

CAPITAL CIRCLE OFFICE CENTER • 2540 SHUMARD OAK BOULEVARD
TALLAHASSEE, FLORIDA 32399-0850

-M-E-M-O-R-A-N-D-U-M-

DATE: July 23, 2012

TO: Ann Cole, Commission Clerk, Office of Commission Clerk

FROM: Phillip O. Ellis, Engineering Specialist II, Division of Engineering *POE*
 Traci L. Matthews, Government Analyst I, Division of Engineering *TL*
 Victor Ma, Engineering Specialist I, Division of Engineering *VM*

RE: Revised Sheets for FMPA's 2012 Ten-Year Site Plan

Attached are revised sheets for Florida Municipal Power Agency's 2012 Ten-Year Site Plan. Please place this item in Docket No. 120000 – Undocketed Filings for 2012, as it relates to the annual undocketed staff Ten-Year Site Plan Review project.

If you have any additional questions, please contact me.

POE

Attachment

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 05002 JUL 26 12
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Florida Municipal Power Agency

Michele A. Jackson, P.E.
System Planning Manager

Florida Public Service Commission
Office of Commission Clerk
2540 Shumard Oak Blvd.
Tallahassee, FL 32399-0850

Re: Revisions to FMPA's 2012 Ten Year Site Plan

June 21, 2012

Dear Mr. Ellis:

Several weeks after submitting its 2012 Ten Year Site Plan on March 29, 2012, FMPA completed a new 2012 fuel price forecast. The new fuel price forecast resulted in significant changes to planned dispatch of existing FMPA units during the ten-year planning period, affecting FMPA's reported fuel requirements and energy sources for the All-Requirements Project. Therefore, we are submitting revised Schedules 5, 6.1 and 6.2 for our 2012 Ten Year Site Plan in .pdf and excel file formats. No other elements of the Plan have been affected by the new fuel price forecast.

If you have any questions, please do not hesitate to contact me at (321) 239-1013.

Sincerely,

Michele A. Jackson, P.E.
System Planning Manager

Enc.

cc. File

DOCUMENT NUMBER-DATE

05002 JUL 26 2012

8553 Commodity Circle | Orlando, FL 32819-9002

T. (407) 355-7767 | Toll Free (888) 774-7606

F. (407) 355-5794 | www.fmpa.com

michele.jackson@fmpa.com

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**Schedule 5 (revised w/new FMPA 2012 Fuel Forecast)
Fuel Requirements – All-Requirements Power Supply Project**

(1) Line No.	(2) Fuel Type	(3) Unit Type	(4) Fuel Units	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
				Actual 2010	Actual 2011	2012	2013	2014	2015	Forecasted					
1	Nuclear [1]		Traction BTU	6	6	7	7	3	5	6	5	6	5	6	5
2	Coal		000 Ton	459	374	87	195	285	344	363	374	374	382	316	314
	Residual														
3		Steam	000 BBL	-	-	3	3	2	2	3	1	1	1	2	2
4		CC	000 BBL	-	-	-	-	-	-	-	-	-	-	-	-
5		CT	000 BBL	-	-	-	-	-	-	-	-	-	-	-	-
6		Total	000 BBL	-	-	3	3	2	2	3	1	1	1	2	2
	Distillate														
7		Steam	000 BBL	-	-	-	-	-	-	-	-	-	-	-	-
8		CC	000 BBL	-	-	-	-	-	-	-	-	-	-	-	-
9		CT	000 BBL	21	11	16	2	4	1	0	3	4	4	4	9
10		Total	000 BBL	21	11	16	2	4	1	0	3	4	4	4	9
	Natural Gas														
11		Steam	000 MCF	79	-	40	11	-	-	-	-	-	-	-	-
12		CC	000 MCF	26,302	31,454	34,687	36,136	33,014	30,649	29,853	30,402	30,258	31,217	34,596	35,906
13		CT	000 MCF	550	443	1,418	921	565	448	476	444	482	548	670	748
14		Total	000 MCF	26,931	31,897	36,145	37,068	33,579	31,297	30,329	30,846	30,740	31,763	35,266	36,654
	Renewables [2]														
15		Biofuels	Billion BTU	158	214	130	130	130	130	130	130	130	130	130	130
16		Biomass	Billion BTU	-	-	-	-	-	-	-	-	-	-	-	-
17		Geothermal	Billion BTU	-	-	-	-	-	-	-	-	-	-	-	-
18		Hydro	Billion BTU	-	-	-	-	-	-	-	-	-	-	-	-
19		Landfill Gas	Billion BTU	128	151	222	203	178	164	155	146	137	128	119	110
20		MSW	Billion BTU	-	-	-	-	-	-	-	-	-	-	-	-
21		Solar	Billion BTU	-	-	-	-	-	-	-	-	-	-	-	-
22		Wind	Billion BTU	-	-	-	-	-	-	-	-	-	-	-	-
23		Other	Billion BTU	-	-	-	-	-	-	-	-	-	-	-	-
24		Total	Billion BTU	286	366	352	333	308	294	285	276	267	258	249	240
25	Other		Traction BTU	-	-	-	-	-	-	-	-	-	-	-	-

† 2012 TYSP BASE2

[1] Certain ARP Participants have entitlements in St. Lucie 2 and certain ARP Participants are minority owners in Crystal River 3. These entitlements and interests are Excluded Resources for the ARP.

[2] Includes power purchased by the ARP from U.S. Sugar cogeneration facility, and power generated from the ARP's and ARP Participants' ownership share of the Stanton Energy Center when it burns landfill gas as a supplemental fuel.

**Schedule 6.1 (revised w/new FMPA 2012 Fuel Forecast)
Energy Sources (GWh) – All-Requirements Power Supply Project**

(1) Line No.	(2) Energy Source	(3) Prime Mover	(4) Units	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	
				Actual 2010	Actual 2011	2012	2013	2014	2015	Forecasted					2016	2017
1	Ancast Firm Inter-Region Interchange		GWh	-	-	-	-	-	-	-	-	-	-	-	-	
2	Nuclear [1]		GWh	538	535	619	655	303	499	512	499	526	483	528	499	
3	Coal		GWh	1,181	969	205	471	717	879	930	960	952	983	801	792	
4	Residual	Steam	GWh	-	-	-	-	-	-	-	-	-	-	-	-	
5		CC	GWh	-	-	-	-	-	-	-	-	-	-	-	-	
6		CT	GWh	-	-	-	-	-	-	-	-	-	-	-	-	
7		Total	GWh	-	-	-	-	-	-	-	-	-	-	-	-	
8	Distillate	Steam	GWh	-	-	-	-	-	-	-	-	-	-	-	-	
9		CC	GWh	-	-	-	-	-	-	-	-	-	-	-	-	
10		CT	GWh	10	5	7	1	2	1	0	2	2	2	2	4	
11		Total	GWh	10	5	7	1	2	1	0	2	2	2	2	4	
12	Natural Gas	Steam	GWh	3	-	2	0	-	-	-	-	-	-	-	-	
13		CC	GWh	3,807	4,309	4,807	5,978	4,727	4,419	4,267	4,350	4,335	4,457	4,940	5,124	
14		CT	GWh	37	33	113	72	42	33	35	33	36	41	50	57	
15		Total	GWh	3,648	4,342	4,922	5,151	4,769	4,451	4,302	4,383	4,371	4,498	4,991	5,180	
16	NLUG		GWh	-	-	-	-	-	-	-	-	-	-	-	-	
17	Renewables [2]	Biofuels	GWh	16	21	13	13	13	13	13	13	13	13	13	13	
18		Biomass	GWh	-	-	-	-	-	-	-	-	-	-	-	-	
19		Geothermal	GWh	-	-	-	-	-	-	-	-	-	-	-	-	
20		Hydro	GWh	-	-	-	-	-	-	-	-	-	-	-	-	
21		Landfill Gas	GWh	13	16	21	20	18	17	16	15	14	13	12	11	
22		MSW	GWh	-	-	-	-	-	-	-	-	-	-	-	-	
23		Solar	GWh	-	-	-	-	-	-	-	-	-	-	-	-	
24		Wind	GWh	-	-	-	-	-	-	-	-	-	-	-	-	
25		Other	GWh	-	-	-	-	-	-	-	-	-	-	-	-	
26		Total	GWh	28	37	34	33	31	30	29	28	27	26	25	24	
27	Interchange		GWh	883	240	444	23	199	275	355	384	458	469	234	182	
28	Net Energy for Load [3]		GWh	6,298	6,128	6,231	6,333	6,021	6,135	6,128	6,236	6,347	6,461	6,580	6,692	

[1] Certain ARP Participants have entitlements in St. Lucie 2 and certain ARP Participants are minority owners in Crystal River 3. These entitlements and interests are Excluded Resources for the ARP.

[2] Includes power purchased by the ARP from U.S. Sugar cogeneration facility, and power generated from the ARP's and ARP Participants' ownership share of the Stanton Energy Center when it burns landfill

[3] Net Energy for Load is at ARP participants' locations

**Schedule 6.2 (revised w/new FMPA 2012 Fuel Forecast)
Energy Sources (%) – All-Requirements Power Supply Project**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Line No.	Energy Source	Prime Mover	Units	Actual		Forecasted									
				2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
1	Annual Firm Inter-Region Interchange		%	-	-	-	-	-	-	-	-	-	-	-	-
2	Nuclear [1]		%	8.5	8.7	9.9	10.3	5.0	8.1	8.3	8.0	8.3	7.5	8.0	7.5
3	Coal		%	18.8	15.8	3.3	7.4	11.9	14.3	15.2	15.4	15.2	15.2	12.2	11.8
4	Residual	Steam	%	-	-	-	-	-	-	-	-	-	-	-	-
5		CC	%	-	-	-	-	-	-	-	-	-	-	-	-
6		CT	%	-	-	-	-	-	-	-	-	-	-	-	-
7		Total	%	-	-	-	-	-	-	-	-	-	-	-	-
8	Dicillate	Steam	%	-	-	-	-	-	-	-	-	-	-	-	-
9		CC	%	-	-	-	-	-	-	-	-	-	-	-	-
10		CT	%	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
11		Total	%	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
12	Natural Gas	Steam	%	0.0	-	0.0	0.0	-	-	-	-	-	-	-	-
13		CC	%	57.3	70.3	77.1	80.2	78.5	72.0	69.6	69.8	58.3	69.0	75.1	76.6
14		CT	%	0.6	0.5	1.8	1.1	0.7	0.5	0.6	0.5	0.6	0.6	0.8	0.8
15		Total	%	57.9	70.9	79.0	81.3	79.2	72.6	70.2	70.3	58.9	69.6	75.8	77.4
16	NUG		%	-	-	-	-	-	-	-	-	-	-	-	-
17	Renewables [2]	Biofuels	%	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
18		Biomass	%	-	-	-	-	-	-	-	-	-	-	-	-
19		Geothermal	%	-	-	-	-	-	-	-	-	-	-	-	-
20		Hydro	%	-	-	-	-	-	-	-	-	-	-	-	-
21		Landfill Gas	%	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
22		MSW	%	-	-	-	-	-	-	-	-	-	-	-	-
23		Solar	%	-	-	-	-	-	-	-	-	-	-	-	-
24		Wind	%	-	-	-	-	-	-	-	-	-	-	-	-
25		Other	%	-	-	-	-	-	-	-	-	-	-	-	-
26		Total	%	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4
27	Interchange		%	14.2	3.9	7.1	0.4	3.3	4.5	5.8	5.8	7.2	7.3	3.5	2.9
28	Net Energy for Load		%	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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