

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-**

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**DATE:** September 6, 2018  
**TO:** Carlotta S. Stauffer, Commission Clerk, Office of Commission Clerk  
**FROM:** Takira Thompson, Engineering Specialist, Division of Engineering *TT POE*  
**RE:** Docket No. 20180000-OT - Undocketed filings for 2018.

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Please file the attached, "Gulf Power Company EXCEL Schedules 2, 3, and 4 - Response to – TYSP Staff's Supplemental Data Request #3," in the above mentioned docket file.

Thank you.

TT/pz

Attachment

**GULF POWER COMPANY**

**Schedule 2.1**

**History and Forecast of Energy Consumption and  
Number of Customers by Customer Class**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
<u>Rural and Residential</u>						<u>Commercial</u>		
<u>Year</u>	<u>Population</u> *	<u>Members per Household</u>	<u>GWH</u>	<u>Average No. of Customers</u>	<u>Average KWH Consumption Per Customer</u>	<u>GWH</u>	<u>Average No. of Customers</u>	<u>Average KWH Consumption Per Customer</u>
1994	751,155	2.77	3,752	271,594	13,814	2,549	38,477	66,243
1995	763,892	2.75	4,014	278,215	14,428	2,708	39,989	67,725
1996	772,113	2.72	4,160	283,717	14,662	2,809	41,007	68,492
1997	796,084	2.77	4,119	287,752	14,316	2,898	42,381	68,377
1998	818,974	2.76	4,438	296,497	14,967	3,112	43,955	70,798
1999	842,216	2.77	4,471	304,413	14,688	3,223	45,510	70,809
2000	857,593	2.75	4,790	312,283	15,339	3,379	47,292	71,459
2001	874,003	2.74	4,716	319,506	14,762	3,417	47,584	71,819
2002	893,449	2.75	5,144	325,343	15,810	3,553	48,482	73,284
2003	912,645	2.70	5,101	338,631	15,064	3,614	50,420	71,683
2004	926,591	2.69	4,991	345,052	14,465	3,521	51,835	67,926
2005	942,242	2.68	5,095	351,803	14,482	3,605	53,201	67,767
2006	956,451	2.67	5,144	357,806	14,377	3,652	54,246	67,327
2007	970,608	2.67	5,162	364,154	14,175	3,689	55,343	66,656
2008	986,159	2.66	5,236	371,344	14,099	3,754	56,575	66,350
2009	1,004,263	2.65	5,324	379,588	14,026	3,814	57,977	65,779
2010	1,023,752	2.64	5,417	388,245	13,951	3,876	59,448	65,203
2011	1,043,094	2.63	5,526	396,743	13,928	3,947	60,894	64,819
2012	1,062,212	2.62	5,641	405,204	13,920	4,026	62,331	64,590
2013	1,086,118	2.62	5,747	414,998	13,849	4,101	63,983	64,096
<b>CAAG</b>								
94-03	2.2%	-0.3%	3.5%	2.5%	1.0%	4.0%	3.0%	0.9%
03-08	1.6%	-0.3%	0.5%	1.9%	-1.3%	0.8%	2.3%	-1.5%
03-13	1.8%	-0.3%	1.2%	2.1%	-0.8%	1.3%	2.4%	-1.1%

\* Historical and projected figures include portions of Escambia, Santa Rosa, Okaloosa, Bay, Walton, Washington, Holmes, and Jackson counties served by Gulf Power Company.

**GULF POWER COMPANY**

**Schedule 2.2**

**History and Forecast of Energy Consumption and  
Number of Customers by Customer Class**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
<u>Year</u>	<u>Industrial</u>			<u>Railroads and Railways</u>	<u>Street &amp; Highway Lighting</u>	<u>Other Sales to Public Authorities</u>	<u>Total Sales to Ultimate Consumers</u>
	<u>GWH</u>	<u>Average No. of Customers</u>	<u>Average KWH Consumption Per Customer</u>				
1994	1,847	268	6,892,218	0	16	0	8,164
1995	1,795	280	6,409,835	0	16	0	8,534
1996	1,808	276	6,551,036	0	17	0	8,794
1997	1,903	281	6,772,419	0	17	0	8,938
1998	1,834	277	6,619,403	0	18	0	9,401
1999	1,846	263	7,019,913	0	18	0	9,558
2000	1,925	251	7,670,869	0	18	0	10,112
2001	2,018	270	7,474,838	0	21	0	10,173
2002	2,054	277	7,413,963	0	21	0	10,772
2003	2,147	285	7,533,179	0	22	0	10,885
2004	2,106	311	6,772,874	0	23	0	10,641
2005	2,128	321	6,629,155	0	23	0	10,851
2006	2,138	324	6,599,732	0	23	0	10,958
2007	2,148	327	6,568,944	0	24	0	11,023
2008	2,157	330	6,535,901	0	24	0	11,170
2009	2,138	333	6,421,046	0	24	0	11,300
2010	2,120	336	6,309,677	0	25	0	11,438
2011	2,101	339	6,198,178	0	25	0	11,599
2012	2,083	342	6,089,330	0	25	0	11,774
2013	2,063	345	5,978,876	0	26	0	11,937
<b><u>CAAG</u></b>							
94-03	1.7%	0.7%	1.0%	0.0%	3.5%	0.0%	3.2%
03-08	0.1%	3.0%	-2.8%	0.0%	1.3%	0.0%	0.5%
03-13	-0.4%	1.9%	-2.3%	0.0%	1.4%	0.0%	0.9%

**GULF POWER COMPANY**

**Schedule 2.3**

**History and Forecast of Energy Consumption and  
Number of Customers by Customer Class**

(1)	(2)	(3)	(4)	(5)	(6)
<u>Year</u>	Sales for Resale <u>GWH</u>	Utility Use & Losses <u>GWH</u>	Net Energy for Load <u>GWH</u>	Other Customers <u>(Average No.)</u>	Total No. of Customers
1994	316	487	8,967	79	310,419
1995	336	582	9,452	93	318,578
1996	347	521	9,662	119	325,119
1997	342	607	9,887	157	330,571
1998	356	645	10,402	215	340,944
1999	348	558	10,464	262	350,447
2000	363	629	11,105	286	360,113
2001	360	671	11,204	380	367,740
2002	384	754	11,910	460	374,561
2003	383	685	11,952	473	389,809
2004	375	706	11,722	475	397,673
2005	380	721	11,952	479	405,804
2006	387	730	12,075	483	412,859
2007	393	736	12,152	487	420,311
2008	401	747	12,318	491	428,740
2009	407	757	12,464	494	438,392
2010	413	768	12,618	497	448,526
2011	420	780	12,799	500	458,476
2012	427	793	12,995	503	468,380
2013	433	805	13,175	506	479,831
<b><u>CAAG</u></b>					
94-03	2.2%	3.9%	3.2%	22.0%	2.6%
03-08	0.9%	1.8%	0.6%	0.7%	1.9%
03-13	1.2%	1.6%	1.0%	0.7%	2.1%

Note: Sales for Resale and Net Energy for Load include contracted energy allocated to certain customers by Southeastern Power Administration (SEPA).



**GULF POWER COMPANY**

**Schedule 3.1**  
History and Forecast of Summer Peak Demand - MW  
Base Case

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
<u>Year</u>	<u>Total</u>	<u>Wholesale</u>	<u>Retail</u>	<u>Interruptible</u>	<u>Residential Load Management</u>	<u>Residential Conservation</u>	<u>Comm/Ind Load Management</u>	<u>Comm/Ind Conservation</u>	<u>Net Firm Demand</u>
1994	1,999	72	1,927	0	0	92	0	104	1,803
1995	2,265	82	2,183	0	0	96	0	122	2,048
1996	2,196	79	2,118	0	0	100	0	127	1,969
1997	2,283	75	2,208	0	0	107	0	136	2,040
1998	2,422	82	2,340	16	0	115	0	138	2,154
1999	2,432	84	2,347	0	0	120	0	143	2,169
2000	2,576	86	2,490	17	0	128	0	142	2,289
2001	2,511	78	2,433	0	0	137	0	143	2,231
2002	2,755	86	2,669	0	0	145	0	148	2,462
2003	2,576	79	2,496	0	0	150	0	150	2,275
2004	2,700	79	2,621	26	0	156	0	152	2,391
2005	2,757	80	2,677	26	0	162	0	155	2,440
2006	2,784	81	2,703	26	0	168	0	157	2,459
2007	2,835	82	2,753	26	0	174	0	159	2,502
2008	2,817	83	2,734	26	0	180	0	161	2,476
2009	2,862	85	2,777	21	0	186	0	163	2,513
2010	2,907	86	2,821	17	0	192	0	165	2,550
2011	2,948	87	2,861	13	0	198	0	167	2,583
2012	2,984	88	2,896	8	0	204	0	169	2,611
2013	3,039	89	2,950	4	0	207	0	171	2,661
<b><u>CAAG</u></b>									
94-03	2.9%	1.1%	2.9%	100.0%	0.0%	5.7%	0.0%	4.1%	2.6%
03-08	1.8%	1.0%	1.8%	100.0%	0.0%	3.7%	0.0%	1.4%	1.7%
03-13	1.7%	1.2%	1.7%	100.0%	0.0%	3.2%	0.0%	1.3%	1.6%

NOTE 1: Includes contracted capacity and energy allocated to certain Resale customers by Southeastern Power Administration (SEPA)

NOTE 2: The forecasted interruptible amounts shown in col (5) are included here for information purposes only. The projected demands shown in column (2), column (4) and column (10) do not reflect the impacts of interruptible. Gulf treats interruptible as a supply side resource.







**GULF POWER COMPANY**

**Schedule 3.2**  
**History and Forecast of Winter Peak Demand - MW**  
**Base Case**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
<u>Year</u>	<u>Total</u>	<u>Wholesale</u>	<u>Retail</u>	<u>Interruptible</u>	<u>Residential Load Management</u>	<u>Residential Conservation</u>	<u>Comm/Ind Load Management</u>	<u>Comm/Ind Conservation</u>	<u>Net Firm Demand</u>
93-94	2,055	72	1,983	0	0	145	0	101	1,809
94-95	1,993	71	1,922	0	0	150	0	102	1,740
95-96	2,404	82	2,322	0	0	157	0	103	2,144
96-97	2,208	80	2,127	0	0	163	0	105	1,939
97-98	1,981	61	1,919	0	0	171	0	118	1,692
98-99	2,392	79	2,313	0	0	177	0	122	2,093
99-00	2,225	75	2,150	0	0	188	0	126	1,911
00-01	2,486	86	2,401	0	0	200	0	126	2,160
01-02	2,530	85	2,445	0	0	211	0	129	2,190
02-03	2,850	92	2,758	0	0	220	0	130	2,500
03-04	2,523	67	2,456	27	0	229	0	132	2,162
04-05	2,567	68	2,499	27	0	239	0	133	2,196
05-06	2,607	70	2,537	27	0	248	0	134	2,225
06-07	2,643	71	2,572	27	0	257	0	135	2,250
07-08	2,687	72	2,615	27	0	267	0	137	2,284
08-09	2,716	73	2,643	22	0	276	0	138	2,302
09-10	2,755	74	2,681	18	0	285	0	139	2,331
10-11	2,794	75	2,719	13	0	295	0	140	2,359
11-12	2,856	77	2,779	9	0	304	0	141	2,410
12-13	2,877	78	2,799	4	0	310	0	143	2,424
<b><u>CAAG</u></b>									
94-03	3.7%	2.8%	3.7%	0.0%	0.0%	4.8%	0.0%	2.8%	3.7%
03-08	-1.2%	-4.7%	-1.1%	0.0%	0.0%	3.9%	0.0%	1.0%	-1.8%
03-13	0.1%	-1.6%	0.1%	0.0%	0.0%	3.5%	0.0%	0.9%	-0.3%

NOTE 1: Includes contracted capacity and energy allocated to certain Resale customers by Southeastern Power Administration (SEPA)

NOTE 2: The forecasted interruptible amounts shown in col (5) are included here for information purposes only. The projected demands shown in column (2), column (4) and column (10) do not reflect the impacts of interruptible. Gulf treats interruptible as a supply side resource.





**GULF POWER COMPANY**

**Schedule 3.3**

**History and Forecast of Annual Net Energy for Load - GWH  
Base Case**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
<u>Year</u>	<u>Total</u>	<u>Residential Conservation</u>	<u>Comm/Ind Conservation</u>	<u>Retail</u>	<u>Wholesale</u>	<u>Utility Use &amp; Losses</u>	<u>Net Energy for Load</u>	<u>Load Factor %</u>
1994	9,443	254	222	8,164	316	487	8,967	56.8%
1995	9,942	263	227	8,534	336	582	9,452	52.7%
1996	10,167	273	232	8,794	347	521	9,662	55.9%
1997	10,408	282	239	8,938	342	607	9,887	55.3%
1998	10,950	292	257	9,401	356	645	10,402	55.1%
1999	11,035	297	274	9,558	348	558	10,464	55.1%
2000	11,690	305	280	10,112	363	629	11,105	55.2%
2001	11,801	314	284	10,173	360	671	11,204	57.3%
2002	12,520	323	288	10,772	384	754	11,910	55.2%
2003	12,585	330	303	10,885	383	685	11,952	60.0%
2004	12,378	339	317	10,641	375	706	11,722	55.8%
2005	12,631	347	332	10,851	380	721	11,952	55.9%
2006	12,776	355	346	10,958	387	730	12,075	56.1%
2007	12,876	363	361	11,023	393	736	12,152	55.4%
2008	13,066	372	376	11,170	401	747	12,318	56.6%
2009	13,235	380	391	11,300	407	757	12,464	56.6%
2010	13,412	388	406	11,438	413	768	12,618	56.5%
2011	13,615	396	420	11,599	420	780	12,799	56.6%
2012	13,834	405	435	11,774	427	793	12,995	56.7%
2013	14,035	411	450	11,937	433	805	13,175	56.5%
<b><u>CAAG</u></b>								
94-03	3.2%	3.0%	3.5%	3.2%	2.2%	3.9%	3.2%	0.6%
03-08	0.8%	2.4%	4.4%	0.5%	0.9%	1.8%	0.6%	-1.1%
03-13	1.1%	2.2%	4.0%	0.9%	1.2%	1.6%	1.0%	-0.6%

NOTE: Wholesale and total columns include contracted capacity and energy allocated to certain Resale customers by Southeastern Power Administration (SEPA).







## GULF POWER COMPANY

### Schedule 4

#### Previous Year Actual and Two Year Forecast of Peak Demand and Net Energy for Load by Month

(1)	(2)	(3)	(4)	(5)	(6)	(7)
	2003 Actual		2004 Forecast		2005 Forecast	
<u>Month</u>	<u>Peak Demand</u> <u>MW</u>	<u>NEL</u> <u>GWH</u>	<u>Peak Demand</u> <u>MW</u>	<u>NEL</u> <u>GWH</u>	<u>Peak Demand</u> <u>MW</u>	<u>NEL</u> <u>GWH</u>
January	2,492	1,018	2,162	918	2,196	934
February	1,681	785	1,822	781	1,927	798
March	1,518	827	1,749	841	1,807	870
April	1,723	866	1,649	829	1,689	848
May	2,071	1,095	2,155	1,068	2,193	1,086
June	2,216	1,152	2,295	1,189	2,339	1,210
July	2,267	1,216	2,391	1,252	2,440	1,278
August	2,263	1,228	2,337	1,252	2,387	1,279
September	2,163	1,075	2,125	1,024	2,154	1,039
October	1,705	890	1,838	898	1,866	912
November	1,705	835	1,564	775	1,594	791
December	1,897	963	1,869	893	1,897	908

NOTE: Includes contracted capacity and energy allocated to certain Resale customers by Southeastern Power Administration (SEPA)