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June 29, 2010

100000-OT

Ms. Ann Cole, Commission Clerk  
Florida Public Service Commission  
2540 Shumard Oak Boulevard  
Tallahassee FL 32399-0850

Dear Ms. Cole:

Enclosed for official filing are an original and fifteen copies of the biennial report of Gulf Power Company prepared in response to the Federal Energy Regulatory Commission's Rules implementing Section 210 of PURPA (18 CFR Part 292, Subsection 292.302).

Sincerely,

COM \_\_\_\_\_  
APA \_\_\_\_\_  
ECR 14  
GCL 1  
RAD \_\_\_\_\_  
SSC \_\_\_\_\_  
ADM \_\_\_\_\_  
OPC \_\_\_\_\_  
CLK \_\_\_\_\_

*Susan D. Ritenour (lw)*

vm

Attachment

cc w/o attachment: Federal Energy Regulatory Commission  
Magalie R. Salas, Secretary

FILED BY NUMBER DATE

5390 JUN 30 2010

FPSC-COMMISSION CLERK

SCHEDULE 292.302 (b)

The data submitted below is intended to fulfill the requirements of Section 292.302 of Chapter I, Title 18, Code of Federal Regulations.

NOTE: THE DATA GIVEN BELOW ARE ESTIMATES OF VARIOUS COSTS FOR GULF POWER COMPANY AND ARE NOT INTENDED FOR USE AS RATES FOR PURCHASES BY THE COMPANY. THE RATES FOR PURCHASES CAN BE OBTAINED BY CONTACTING:

Rates and Regulatory Matters Department  
Gulf Power Company  
One Energy Place  
Pensacola, FL 32520-0780  
Phone: (850) 444-6253

- (1) The actual and estimated avoided costs for Gulf Power Company, solely with respect to the energy component for various levels of purchases. These costs are stated on a cents per kilowatt-hour basis, using the daily and seasonal on-peak and off-peak periods, as specified by the Florida Public Service Commission, by year, for actual 2009 and estimated 2010 - 2015.

**See Pages 2 – 9**

DOCUMENT NUMBER DATE  
5390 JUN 30 2010  
FPSC-COMMISSION CLERK

Gulf Power Company

Avoided Cost By Costing Period  
For The Year 2009 <sup>(a)</sup>

<u>Pricing Period <sup>(b)</sup></u>	<u>Avoided Costs cents/kWh <sup>(c)</sup></u>
On-Peak	4.142
Off-Peak	3.485
Annual	3.649

- (a) For historical data, avoided costs in 100 MW increments are not available.
- (b) Pricing Period Definitions are included on Pages 4 – 9. The pricing periods are those that are currently specified by the Florida Public Service Commission.
- (c) Calculated as the linear average of all hourly marginal energy cost occurring in the designated costing period and year.

Gulf Power Company

Cogeneration  
PURPA 210 Subpart Section 292.302 (b) (1)  
Comments

System block lambdas are calculated for ten blocks of 100 MW each and are utilized as estimated incremental avoided costs for Gulf Power Company, solely with respect to the energy component for various levels of purchases.

These costs are stated on a cents per kilowatt-hour basis for the overall on-peak and off-peak pricing periods. These pricing periods are those that are currently specified by the Florida Public Service Commission. The hours included in these pricing periods are identified under Pricing Period Definitions at the bottom of Pages 4 – 9.

GULF POWER COMPANY
PURPA FILING FOR THE 2010 PURPA REQUIREMENTS
ESTIMATED AVOIDED COSTS (CENTS/KWH)
2010

MW Blocks	Period 1	Period 2	Period 3
	On Peak Hours	Off Peak Hours	Annual
1 - 100	4.59	3.86	4.04
101 - 200	4.57	3.85	4.03
201 - 300	4.56	3.84	4.02
301 - 400	4.54	3.83	4.01
401 - 500	4.53	3.83	4.00
501 - 600	4.51	3.82	3.99
601 - 700	4.49	3.81	3.98
701 - 800	4.46	3.79	3.97
801 - 900	4.44	3.78	3.96
901 - 1000	4.42	3.77	3.95

PRICING PERIOD DEFINITIONS
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<u>Period No.</u>	<u>Months</u>	<u>Days</u>	<u>Hours</u>
(1) On Peak Hours	April-October	Monday - Friday	12:00 pm-9:00 pm
	November-March	Monday - Friday	6:00 am-10:00 am
(2) Off Peak Hours	April-October	Monday - Friday	12:00 am-12:00 pm
			9:00 pm-12:00 am
	November-March	Monday - Friday	12:00 am-6:00 am
			10:00 am-6:00 pm
			10:00 pm-12:00am
January-December	Saturday - Sunday	All Hours	
	Observed Holidays	All Hours	
(3) Annual	January-December	Sunday-Saturday	All Hours

<p>Note:          Projected marginal energy costs for each of the ten 100 MW decrements into territorial load. These costs are based on a marginal dispatch of system units, and priced a marginal spot fuel rates. All costs include variable O&amp;M and CAA compliance costs, if any, and represent avoided cost at generator busses.</p>
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GULF POWER COMPANY
PURPA FILING FOR THE 2010 PURPA REQUIREMENTS
ESTIMATED AVOIDED COSTS (CENTS/KWH)
2011

MW Blocks	Period 1 On Peak Hours	Period 2 Off Peak Hours	Period 3 Annual
1 - 100	5.17	4.30	4.52
101 - 200	5.15	4.29	4.50
201 - 300	5.13	4.27	4.49
301 - 400	5.11	4.26	4.47
401 - 500	5.09	4.24	4.46
501 - 600	5.06	4.23	4.44
601 - 700	5.04	4.23	4.42
701 - 800	5.02	4.22	4.41
801 - 900	5.00	4.22	4.39
901 - 1000	4.97	4.21	4.37

PRICING PERIOD DEFINITIONS
----------------------------

<u>Period No.</u>	<u>Months</u>	<u>Days</u>	<u>Hours</u>
(1) On Peak Hours	April-October	Monday - Friday	12:00 pm-9:00 pm
	November-March	Monday - Friday	6:00 am-10:00 am 6:00 pm-10:00 pm
(2) Off Peak Hours	April-October	Monday - Friday	12:00 am-12:00 pm 9:00 pm-12:00 am
		Monday - Friday	12:00 am-6:00 am 10:00 am-6:00 pm 10:00 pm-12:00am
	November-March	Monday - Friday	12:00 am-6:00 am 10:00 am-6:00 pm 10:00 pm-12:00am
		Monday - Friday	12:00 am-6:00 am 10:00 am-6:00 pm 10:00 pm-12:00am
(3) Annual	January-December	Saturday - Sunday	All Hours
		Observed Holidays	All Hours

Note:  
 Projected marginal energy costs for each of the ten 100 MW decrements into territorial load. These costs are based on a marginal dispatch of system units, and priced at marginal spot fuel rates. All costs include variable O&M and CAA compliance costs, if any, and represent avoided costs at the generator busses.

GULF POWER COMPANY
PURPA FILING FOR THE 2010 PURPA REQUIREMENTS
ESTIMATED AVOIDED COSTS (CENTS/KWH)
2012

MW Blocks	Period 1	Period 2	Period 3
	On Peak Hours	Off Peak Hours	Annual
1 - 100	5.80	4.76	5.02
101 - 200	5.77	4.75	5.00
201 - 300	5.74	4.73	4.98
301 - 400	5.71	4.72	4.96
401 - 500	5.68	4.70	4.95
501 - 600	5.65	4.69	4.93
601 - 700	5.62	4.69	4.91
701 - 800	5.59	4.68	4.89
801 - 900	5.55	4.67	4.88
901 - 1000	5.52	4.67	4.86

PRICING PERIOD DEFINITIONS
----------------------------

<u>Period No.</u>	<u>Months</u>	<u>Days</u>	<u>Hours</u>
(1) On Peak Hours	April-October	Monday - Friday	12:00 pm-9:00 pm
	November-March	Monday - Friday	6:00 am-10:00 am 6:00 pm-10:00 pm
(2) Off Peak Hours	April-October	Monday - Friday	12:00 am-12:00 pm 9:00 pm-12:00 am
	November-March	Monday - Friday	12:00 am-6:00 am 10:00 am-6:00 pm 10:00 pm-12:00am
	January-December	Saturday - Sunday Observed Holidays	All Hours All Hours
	(3) Annual	January-December	Sunday-Saturday

Note:  
 Projected marginal energy costs for each of the ten 100 MW decrements into territorial load. These costs are based on a marginal dispatch of system units, and priced at marginal spot fuel rates. All costs include variable O&M and CAA compliance costs, if any, and represent avoided costs at the generator busses.

GULF POWER COMPANY

PURPA FILING FOR THE 2010 PURPA REQUIREMENTS

ESTIMATED AVOIDED COSTS  
 (CENTS/KWH)

2013

MW Blocks	Period 1	Period 2	Period 3
	On Peak Hours	Off Peak Hours	Annual
1 - 100	6.46	5.24	5.54
101 - 200	6.43	5.22	5.52
201 - 300	6.40	5.21	5.51
301 - 400	6.37	5.19	5.49
401 - 500	6.34	5.18	5.47
501 - 600	6.32	5.17	5.45
601 - 700	6.29	5.15	5.43
701 - 800	6.26	5.14	5.41
801 - 900	6.23	5.13	5.39
901 - 1000	6.21	5.12	5.37

PRICING PERIOD DEFINITIONS

<u>Period No.</u>	<u>Months</u>	<u>Days</u>	<u>Hours</u>
(1) On Peak Hours	April-October	Monday - Friday	12:00 pm-9:00 pm
	November-March	Monday - Friday	6:00 am-10:00 am 6:00 pm-10:00 pm
(2) Off Peak Hours	April-October	Monday - Friday	12:00 am-12:00 pm 9:00 pm-12:00 am
		Monday - Friday	12:00 am-6:00 am 10:00 am-6:00 pm 10:00 pm-12:00am
	January-December	Saturday - Sunday	All Hours
		Observed Holidays	All Hours
(3) Annual	January-December	Sunday-Saturday	All Hours

Note:

Projected marginal energy costs for each of the ten 100 MW decrements into territorial load. These costs are based on a marginal dispatch of system units, and priced at marginal spot fuel rates. All costs include variable O&M and CAA compliance costs, if any, and represent avoided costs at the generator busses.



GULF POWER COMPANY
PURPA FILING FOR THE 2010 PURPA REQUIREMENTS
ESTIMATED AVOIDED COSTS (CENTS/KWH)
2014

MW Blocks	Period 1	Period 2	Period 3
	On Peak Hours	Off Peak Hours	Annual
1 - 100	6.66	5.44	5.74
101 - 200	6.61	5.42	5.72
201 - 300	6.56	5.40	5.69
301 - 400	6.51	5.39	5.67
401 - 500	6.46	5.37	5.64
501 - 600	6.42	5.35	5.62
601 - 700	6.39	5.34	5.59
701 - 800	6.36	5.33	5.57
801 - 900	6.33	5.31	5.55
901 - 1000	6.30	5.30	5.53

PRICING PERIOD DEFINITIONS
----------------------------

<u>Period No.</u>	<u>Months</u>	<u>Days</u>	<u>Hours</u>
(1) On Peak Hours	April-October	Monday - Friday	12:00 pm-9:00 pm
	November-March	Monday - Friday	6:00 am-10:00 am 6:00 pm-10:00 pm
(2) Off Peak Hours	April-October	Monday - Friday	12:00 am-12:00 pm 9:00 pm-12:00 am
	November-March	Monday - Friday	12:00 am-6:00 am 10:00 am-6:00 pm 10:00 pm-12:00am
	January-December	Saturday - Sunday Observed Holidays	All Hours All Hours
(3) Annual	January-December	Sunday-Saturday	All Hours

<p>Note:          Projected marginal energy costs for each of the ten 100 MW decrements into territorial load. These costs are based on a marginal dispatch of system units, and priced at marginal spot fuel rates. All costs include variable O&amp;M and CAA compliance costs, if any, and represent avoided costs at the generator busses.</p>
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GULF POWER COMPANY

PURPA FILING FOR THE 2010 PURPA REQUIREMENTS

ESTIMATED AVOIDED COSTS  
 (CENTS/KWH)

2015

MW Blocks	Period 1	Period 2	Period 3
	On Peak Hours	Off Peak Hours	Annual
1 - 100	7.16	5.72	6.08
101 - 200	7.11	5.69	6.05
201 - 300	7.07	5.67	6.02
301 - 400	7.02	5.65	5.99
401 - 500	6.98	5.63	5.96
501 - 600	6.93	5.61	5.94
601 - 700	6.88	5.60	5.91
701 - 800	6.84	5.58	5.88
801 - 900	6.79	5.57	5.86
901 - 1000	6.74	5.55	5.83

PRICING PERIOD DEFINITIONS

Period No.	Months	Days	Hours
(1) On Peak Hours	April-October	Monday - Friday	12:00 pm-9:00 pm
	November-March	Monday - Friday	6:00 am-10:00 am
(2) Off Peak Hours	April-October	Monday - Friday	12:00 am-12:00 pm
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			10:00 pm-12:00am
January-December	Saturday - Sunday	All Hours	
	Observed Holidays	All Hours	
(3) Annual	January-December	Sunday-Saturday	All Hours

Note:

Projected marginal energy costs for each of the ten 100 MW decrements into territorial load. These costs are based on a marginal dispatch of system units, and priced at marginal spot fuel rates. All costs include variable O&M and CAA compliance costs, if any, and represent avoided costs at the generator busses.

Schedule 292.302 (b) (2)

Gulf Power Company's plan for the addition of capacity by amount and type, for purchases of firm energy and capacity, and for capacity retirements for each year during the succeeding ten years (2010-2019).

***See Pages 11 – 12***

Gulf Power Company

Capacity Additions <sup>(a)</sup>

2010 – 2019

<u>Plant Name</u>	<u>Unit No.</u>	<u>Location</u>	<u>Type</u>	<u>Commercial In-Service Date</u> <sup>(b)</sup>	<u>Amount (MW)</u>
NONE	N/A	N/A	N/A	N/A	N/A

- (a) As contained in Gulf's 2010 Ten Year Site Plan on file with the Florida Public Service Commission.
- (b) Capacity additions are planned for commercial operation prior to the summer season.

Capacity Retirements <sup>(a)</sup>

2010 – 2019

<u>Plant Name</u>	<u>Unit No.</u>	<u>Location</u>	<u>Type</u>	<u>Retirement Date</u>	<u>Amount (MW)</u>
Pea Ridge	1-3	Santa Rosa County	CT	12/2019	12.0

- (a) As contained in Gulf's 2010 Ten Year Site Plan on file with the Florida Public Service Commission.

Gulf Power Company

Purchases of Firm Energy and Capacity

2010 – 2019 <sup>(a)</sup>

<u>Year</u>	<u>Firm Purchases</u>	
	<u>Capacity Amount</u> <sup>(b)</sup> <u>MW</u>	<u>Energy Amount</u> <u>mWh</u>
2010	488	No firm long-term energy purchases currently planned for this period.
2011	488	
2012	488	
2013	488	
2014	885	
2015	885	
2016	885	
2017	885	
2018	885	
2019	885	

(a) As contained in Gulf's 2010 Ten Year Site Plan on file with the Florida Public Service Commission.

(b) Cumulative capacity amounts shown.

Schedule 292.302 (b) (3)

The estimated capacity costs at the completion of the planned capacity additions and planned firm capacity purchases in \$/kW and the associated energy costs of each unit in cents/kWh.

Gulf Power Company  
Capacity and Energy Costs  
Of Planned Capacity <sup>(a)</sup>  
2010 – 2019

<u>Planned Capacity Additions</u>	<u>Capacity Cost \$/kW <sup>(b)</sup></u>	<u>Energy Cost cents/kWh <sup>(c)</sup></u>
NONE	N/A	N/A

- (a) As contained in Gulf's 2010 Ten Year Site Plan on file with the Florida Public Service Commission.
- (b) Capacity costs are shown as in-service year dollars.
- (c) Average cents/kWh is based on the estimated fuel and variable O&M expenses for the first full calendar year in service.