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COMMISSION
CLERK



June 17, 2010

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

Dear Ms. Cole:

Re: Docket No. 100164-EQ

Enclosed are the original and five copies of Gulf Power's response to Staff's First Data Request in Docket 100164-EQ. Also enclosed are six electronic copies of the response.

Sincerely,

Susan D. Ritenour (lw)

vm

Enclosures

cc w/encl.: Beggs and Lane
Jeffrey A. Stone, Esquire
Public Service Commission
Martha Brown, Senior Atty

- COM _____
- APA _____
- ECR _____
- GCL 2 + 2 CD's
- RAD 3 + 4 CD's
- SSC _____
- ADM _____
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Ann Cole, Commission Clerk
Florida Public Service Commission
June 17, 2010
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bc w/encl.: Ray Grove
Rich Dodd
Homer Bell
Susan Ritenour
Gary Livingston
Jerry Mintz

1. Please provide, on an energy and capacity basis, estimates of payments to a renewable generator from the proposed revised standard offer contract. Please provide payment estimates for the normal, levelized, early, and levelized early payment periods. Assume the renewable generator is a 50 megawatt facility providing firm capacity at the minimum capacity factor required for full capacity payments, with an in-service date of January 1, 2011 and a contract duration of 20 years. Please complete the table below for each scenario and provide an electronic copy in Excel (.xls) format.

ANSWER:

Please see the following pages (Item No. 1, Pages 2 – 5) for the hardcopy response and the enclosed CD for the requested electronic copy in Excel format.

Estimated Payments to 50 MW Renewable Resource providing Firm Capacity																						
Scenario: Normal																						
Year	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	NPV	Nominal
Capacity (MW)	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	-	-
Energy (MWh)	394,200	394,200	394,200	394,200	394,200	394,200	394,200	394,200	394,200	394,200	394,200	394,200	394,200	394,200	394,200	394,200	394,200	394,200	394,200	394,200	-	-
Capacity Factor (%)	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	-	-
Payment Rates																						
Capacity ⁽¹⁾ (\$/kw-mo)	0	0	0	0	0	0	0	0	0	6.38	6.49	6.61	6.72	6.84	6.96	7.08	7.21	7.34	7.46	7.60	-	-
Energy ⁽²⁾ (\$/MWh)	46.11	50.93	55.52	57.85	60.90	61.73	63.40	64.86	69.39	72.47	75.64	79.37	83.76	87.11	89.21	93.12	93.75	95.30	95.78	96.26	-	-
Total (\$/MWh)	46.11	50.93	55.52	57.85	60.90	61.73	63.40	64.86	69.39	78.13	85.45	89.35	93.92	97.45	99.73	103.82	104.64	106.38	107.06	107.74	-	-
Payments																						
Capacity (\$000)	0	0	0	0	0	0	0	0	0	2,233	3,867	3,935	4,005	4,075	4,147	4,220	4,294	4,369	4,446	4,524	14,061	44,115
Energy (\$000)	18,177	20,077	21,886	22,804	24,007	24,334	24,992	25,568	27,354	28,568	29,817	31,288	33,018	34,339	35,167	36,708	36,956	37,567	37,756	37,946	264,097	588,328
Total (\$000)	18,177	20,077	21,886	22,804	24,007	24,334	24,992	25,568	27,354	30,801	33,685	35,223	37,023	38,414	39,313	40,927	41,250	41,937	42,203	42,470	278,158	632,443

(1) Normal capacity payment rate effective as of avoided unit's June 1, 2020 in-service date.

(2) Projected as-available energy rates shown prior the avoided unit's June 1, 2020 in-service date. The lower of the projected as-available energy rate or the projected avoided unit energy rate shown as of in-service date.

Estimated Payments to 50 MW Renewable Resource providing Firm Capacity

Scenario: Levelized																							
Year	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	NPV	Nominal	
Capacity	(MW)	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	-	-	
Energy	(MWh)	394,200	394,200	394,200	394,200	394,200	394,200	394,200	394,200	394,200	394,200	394,200	394,200	394,200	394,200	394,200	394,200	394,200	394,200	394,200	-	-	
Capacity Factor	(%)	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	-	-	
Payment Rates																							
Capacity ⁽¹⁾	(\$/kw-mo)	0	0	0	0	0	0	0	0	0	6.79	6.81	6.83	6.84	6.86	6.88	6.89	6.91	6.93	6.95	6.97	-	-
Energy ⁽²⁾	(\$/MWh)	46.11	50.93	55.52	57.85	60.90	61.73	63.40	64.86	69.39	72.47	75.64	79.37	83.76	87.11	89.21	93.12	93.75	95.30	95.78	96.26	-	-
Total	(\$/MWh)	46.11	50.93	55.52	57.85	60.90	61.73	63.40	64.86	69.39	78.50	86.00	89.75	94.16	97.54	99.67	103.60	104.26	105.84	106.34	106.85	-	-
Payments																							
Capacity	(\$000)	0	0	0	0	0	0	0	0	0	2,378	4,082	4,092	4,102	4,112	4,122	4,132	4,143	4,154	4,165	4,176	14,061	43,656
Energy	(\$000)	18,177	20,077	21,886	22,804	24,007	24,334	24,992	25,568	27,354	28,568	29,817	31,288	33,018	34,339	35,167	36,708	36,956	37,567	37,756	37,946	264,097	588,328
Total	(\$000)	18,177	20,077	21,886	22,804	24,007	24,334	24,992	25,568	27,354	30,946	33,899	35,379	37,120	38,450	39,288	40,840	41,099	41,721	41,921	42,121	278,158	631,983

(1) Normal capacity payment rate effective as of avoided unit's June 1, 2020 in-service date.

(2) Projected as-available energy rates shown prior the avoided unit's June 1, 2020 in-service date. The lower of the projected as-available energy rate or the projected avoided unit energy rate shown as of in-service date.

Estimated Payments to 50 MW Renewable Resource providing Firm Capacity

Scenario: Early

Year		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	NPV	Nominal	
Capacity	(MW)	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	-	-	
Energy	(MWh)	394200	394200	394200	394200	394200	394200	394200	394200	394200	394200	394200	394200	394200	394200	394200	394200	394200	394200	394200	394200	394200	-	-
Capacity Factor	(%)	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	-	-
Payment Rates																								
Capacity ⁽¹⁾	(\$/MWh)	2.09	2.13	2.16	2.20	2.24	2.28	2.32	2.36	2.40	2.44	2.49	2.53	2.57	2.62	2.67	2.71	2.76	2.81	2.86	2.91	-	-	
Energy ⁽²⁾	(\$/MWh)	46.11	50.93	55.52	57.85	60.9	61.73	63.4	64.86	69.39	72.47	75.64	79.37	83.76	87.11	89.21	93.12	93.75	95.3	95.78	96.26	-	-	
Total	(\$/MWh)	49.29	54.16	58.81	61.2	64.31	65.2	66.93	68.45	73.04	76.19	79.42	83.22	87.68	91.1	93.27	97.25	97.95	99.58	100.13	100.69	-	-	
Payments																								
Capacity	(\$000)	1,253	1,275	1,297	1,320	1,343	1,367	1,391	1,416	1,441	1,466	1,492	1,518	1,545	1,572	1,599	1,628	1,656	1,685	1,715	1,745	14,061	29,724	
Energy	(\$000)	18,177	20,077	21,886	22,804	24,007	24,334	24,992	25,568	27,354	28,568	29,817	31,288	33,018	34,339	35,167	36,708	36,956	37,567	37,756	37,946	264,097	588,328	
Total	(\$000)	19,430	21,352	23,183	24,125	25,350	25,701	26,383	26,983	28,794	30,034	31,309	32,806	34,563	35,911	36,766	38,335	38,612	39,253	39,471	39,691	278,158	618,052	

(1) Capacity payment rate effective as of January 1, 2011.

(2) Projected as-available energy rates shown prior the avoided unit's June 1, 2020 in-service date. The lower of the projected as-available energy rate or the projected avoided unit energy rate shown as of in-service date.

Estimated Payments to 50 MW Renewable Resource providing Firm Capacity

Scenario: Early Levelized																							
Year		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	NPV	Nominal
Capacity	(MW)	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	-	-
Energy	(MWh)	394200	394200	394200	394200	394200	394200	394200	394200	394200	394200	394200	394200	394200	394200	394200	394200	394200	394200	394200	394200	-	-
Capacity Factor	(%)	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%	-	-
Payment Rates																							
Capacity ⁽¹⁾	(\$/kW-yr)	2.33	2.34	2.34	2.35	2.35	2.36	2.36	2.37	2.38	2.38	2.39	2.40	2.40	2.41	2.42	2.42	2.43	2.44	2.45	2.45	-	-
Energy ⁽²⁾	(\$/MWh)	46.11	50.93	55.52	57.85	60.9	61.73	63.4	64.86	69.39	72.47	75.64	79.37	83.76	87.11	89.21	93.12	93.75	95.3	95.78	96.26	-	-
Total	(\$/MWh)	49.66	54.48	59.08	61.42	64.48	65.32	67	68.47	73.01	76.1	79.28	83.02	87.42	90.78	92.89	96.81	97.45	99.01	99.5	99.99	-	-
Payments																							
Capacity	(\$000)	1,398	1,401	1,405	1,408	1,412	1,415	1,419	1,422	1,426	1,430	1,434	1,438	1,442	1,446	1,450	1,454	1,459	1,463	1,468	1,472	14,061	28,662
Energy	(\$000)	18,177	20,077	21,886	22,804	24,007	24,334	24,992	25,568	27,354	28,568	29,817	31,288	33,018	34,339	35,167	36,708	36,956	37,567	37,756	37,946	264,097	588,328
Total	(\$000)	19,574	21,478	23,291	24,212	25,418	25,749	26,411	26,990	28,780	29,998	31,251	32,726	34,460	35,785	36,617	38,162	38,415	39,030	39,224	39,418	278,158	616,989

(1) Capacity payment rate effective as of January 1, 2011.

(2) Projected as-available energy rates shown prior the avoided unit's June 1, 2020 in-service date. The lower of the projected as-available energy rate or the projected avoided unit energy rate shown as of in-service date.