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10 JUL -7 PM 1:41
COMMISSION
CLERK

July 7, 2010

HAND DELIVERED

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

Re: Tampa Electric Company's Petition for Approval of Revisions to the Standard Offer Contract and Rate Schedules COG-1 and COG-2; FPSC Docket No. 100167-EI

Dear Ms. Cole:

Enclosed for filing in the above docket are the original and five copies of Tampa Electric Company's revised response to Staff's Data Request No. 2, reflecting the revised Standard Offer Contract payment tables based on 90% capacity factor as requested by Staff.

Please acknowledge receipt and filing of the above by stamping the duplicate copy of this letter and returning same to this writer.

Thank you for your assistance in connection with this matter.

Sincerely,



James D. Beasley

JDB/pp
Enclosures

- COM _____
- APA _____ cc: Martha Carter Brown (w/enc.)
- ECR _____ Lee Eng Tan (w/enc.)
- GCL 3 _____ Shevie Brown (w/enc.)
- RAD 2 _____ Tom Ballinger (w/enc.)
- SSC _____
- ADM _____
- OPC _____
- CLK _____

DOCUMENT NUMBER DATE
05534 JUL -7 2
FPSC-01 100167-EI

Estimate Payments to 50 MW Renewable Resource providing Firm Capacity

Scenario: Normal																							
Contract 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 ⁽¹⁾	(%)	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	(\$/W-yr)	-	-	9.07	9.23	9.39	9.56	9.73	9.90	10.08	10.26	10.44	10.63	10.82	11.01	11.21	11.40	11.61	11.82	12.03	12.24	-	-
Energy ⁽²⁾	(\$/MWh)	70.74	73.37	79.95	76.18	75.67	81.77	79.61	82.43	76.99	77.45	81.39	89.43	89.76	90.18	94.93	96.01	102.39	106.79	109.10	111.32	-	-
Total	(\$/MWh)	70.74	73.37	89.15	90.23	89.96	96.32	94.42	97.50	92.33	93.06	97.28	105.61	106.22	106.93	111.99	113.37	120.06	124.77	127.40	129.95	-	-
Payments																							
Capacity ⁽³⁾	(\$000)	-	-	3,626	5,536	5,635	5,735	5,837	5,941	6,047	6,155	6,265	6,376	6,490	6,605	6,723	6,843	6,965	7,089	7,216	7,344	47,809	112,430
Energy	(\$000)	27,886	28,921	31,516	30,031	29,828	32,234	31,381	32,494	30,350	30,530	32,083	35,254	35,383	35,548	37,423	37,848	40,361	42,096	43,007	43,883	320,309	688,058
Total	(\$000)	27,886	28,921	35,143	35,568	35,463	37,970	37,218	38,435	36,397	36,685	38,347	41,631	41,872	42,153	44,146	44,691	47,326	49,185	50,223	51,228	368,118	800,488

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	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 ⁽¹⁾	(%)	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	(\$/W-yr)	-	-	9.96	10.00	10.04	10.08	10.12	10.16	10.20	10.25	10.29	10.34	10.38	10.43	10.48	10.52	10.57	10.63	10.68	10.73	-	-
Energy ⁽²⁾	(\$/MWh)	70.74	73.37	79.95	76.18	75.67	81.77	79.61	82.43	76.99	77.45	81.39	89.43	89.76	90.18	94.93	96.01	102.39	106.79	109.10	111.32	-	-
Total	(\$/MWh)	70.74	73.37	90.05	91.41	90.95	97.12	95.01	97.90	92.52	93.05	97.05	105.17	105.56	106.05	110.88	112.03	118.48	122.96	125.35	127.65	-	-
Payments																							
Capacity ⁽³⁾	(\$000)	-	-	3,982	6,002	6,025	6,049	6,073	6,098	6,123	6,149	6,175	6,202	6,229	6,257	6,286	6,315	6,345	6,375	6,406	6,438	47,809	157,336
Energy	(\$000)	27,886	28,921	31,516	30,031	29,828	32,234	31,381	32,494	30,350	30,530	32,083	35,254	35,383	35,548	37,423	37,848	40,361	42,096	43,007	43,883	320,309	1,008,368
Total	(\$000)	27,886	28,921	35,498	36,033	35,853	38,283	37,454	38,592	36,473	36,679	38,257	41,456	41,612	41,805	43,709	44,163	46,706	48,471	49,413	50,321	368,118	1,165,704

- (1) The capacity factor used in this example is 90%. The minimum capacity factor required to obtain a full capacity payment would be approximately 90% of the average capacity factor of the avoided unit and existing CTs of the same type (i.e., zero-derivative) in each year of the contract.
- (2) The energy rate is a weighted blend based on the estimated on-peak as-available energy rate and the estimated avoided unit energy rate.
- (3) The capacity payment under the Normal and Levelized payment options begins May 1st of 2013 which is the in-service date of the avoided unit.

DOCUMENT NUMBER: 05534
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 FPSC-COMMISSIONER'S OFFICE

Estimate 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)	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 ⁽¹⁾	(%)	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	(\$/kW-yr)	7.13	7.26	7.38	7.52	7.65	7.79	7.92	8.07	8.21	8.36	8.50	8.66	8.81	8.97	9.13	9.29	9.46	9.62	9.80	9.97	-	-
Energy ⁽²⁾	(\$/MWh)	70.74	73.37	79.95	76.18	75.67	81.77	79.61	82.43	76.99	77.45	81.39	89.43	89.76	90.18	94.93	96.01	102.39	106.79	109.10	111.32	-	-
Total	(\$/MWh)	81.59	84.41	91.19	87.62	87.31	93.62	91.67	94.71	89.49	90.17	94.33	102.61	103.17	103.83	108.83	110.15	116.78	121.44	124.01	126.50	-	-
Payments																							
Capacity	(\$000)	4,277	4,353	4,431	4,510	4,590	4,672	4,755	4,839	4,926	5,013	5,103	5,194	5,286	5,380	5,476	5,574	5,673	5,775	5,878	5,982	47,809	149,495
Energy	(\$000)	27,886	28,921	31,516	30,031	29,828	32,234	31,381	32,494	30,350	30,530	32,083	35,254	35,383	35,548	37,423	37,848	40,361	42,096	43,007	43,883	320,309	1,008,368
Total	(\$000)	32,163	33,274	35,947	34,541	34,418	36,906	36,136	37,333	35,275	35,544	37,185	40,448	40,669	40,928	42,899	43,422	46,034	47,871	48,885	49,866	368,118	1,157,863

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)	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 ⁽¹⁾	(%)	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	(\$/kW-yr)	7.88	7.91	7.94	7.97	8.00	8.03	8.06	8.10	8.13	8.17	8.20	8.24	8.28	8.32	8.35	8.39	8.43	8.48	8.52	8.56	-	-
Energy ⁽²⁾	(\$/MWh)	70.74	73.37	79.95	76.18	75.67	81.77	79.61	82.43	76.99	77.45	81.39	89.43	89.76	90.18	94.93	96.01	102.39	106.79	109.10	111.32	-	-
Total	(\$/MWh)	82.73	85.40	92.03	88.31	87.84	94.00	91.88	94.76	89.37	89.88	93.87	101.97	102.36	102.83	107.65	108.79	115.22	119.69	122.07	124.35	-	-
Payments																							
Capacity	(\$000)	4,725	4,743	4,761	4,780	4,799	4,819	4,838	4,859	4,879	4,900	4,922	4,944	4,966	4,989	5,013	5,036	5,061	5,086	5,111	5,137	47,809	146,178
Energy	(\$000)	27,886	28,921	31,516	30,031	29,828	32,234	31,381	32,494	30,350	30,530	32,083	35,254	35,383	35,548	37,423	37,848	40,361	42,096	43,007	43,883	320,309	1,008,368
Total	(\$000)	32,612	33,665	36,278	34,811	34,627	37,053	36,219	37,352	35,229	35,431	37,004	40,198	40,349	40,537	42,436	42,885	45,422	47,182	48,118	49,020	368,118	1,154,545

(1) The capacity factor used in this example is 90%. The minimum capacity factor required to obtain a full capacity payment would be approximately 90% of the average capacity factor of the avoided unit and existing CTs of the same type (i.e., aero-derivative) in each year of the contract.

(2) The energy rate is a weighted blend based on the estimated on-peak as-available energy rate and the estimated avoided unit energy rate.