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June 18, 2010

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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

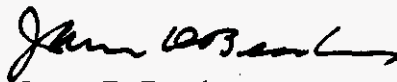
Dear Ms. Cole:

Enclosed for filing in the above docket are the original and five copies of Tampa Electric Company's answers to the Florida Public Service Commission Staff's Data Request No. 2.

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+4 CDs Shevie Brown (w/enc.)  
RAD 2+2 CDs  
SSC \_\_\_\_\_  
ADM \_\_\_\_\_  
OPC \_\_\_\_\_  
CLK \_\_\_\_\_

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5113 JUN 18 2010

FPSC-COMMISSION CLERK



**TAMPA ELECTRIC COMPANY  
DOCKET NO. 100167-EI  
STAFF'S 2<sup>nd</sup> DATA REQUEST  
REQUEST NO. 1  
PAGE 2 OF 4  
FILED: JUNE 18, 2010**

For purposes of this response, the minimum capacity factor assumed for the RG is 90 percent of the estimated weighted average capacity factor of the avoided unit and other existing units of the same type (i.e. aero-derivative) in each year, and is reflective of the minimum dispatched hours that the RG facility would need to run at the contracted capacity in order to receive full capacity payments. It is further assumed that no additional energy will be tendered by the RG for purchase by Tampa Electric when the RG facility is not dispatched. This assumption results in a higher reported payment rate per MWh as the capacity costs are spread over a lower quantity of MWhs. It is expected that many renewable generators taking standard offer service would produce substantially more MWhs, being paid for such energy at the as-available avoided cost energy rate for that extra energy, but which would result in a lower overall cost per MWh if that extra energy is factored in.

**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)	24,673	24,988	20,863	16,644	13,199	15,491	17,345	20,907	17,983	5,078	5,760	5,334	6,455	7,394	8,014	6,223	7,648	11,135	12,366	6,856	-	-
Capacity Factor <sup>(1)</sup>	(%)	5.63%	5.70%	4.76%	3.80%	3.01%	3.54%	3.96%	4.77%	4.11%	1.16%	1.32%	1.22%	1.47%	1.69%	1.83%	1.42%	1.75%	2.54%	2.82%	1.57%	-	-
Payment Rates																							
Capacity	(\$/kW-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	79.68	190.41
Energy <sup>(2)</sup>	(\$/MWh)	70.74	73.37	88.52	95.52	96.78	97.69	99.18	101.36	103.96	104.51	107.47	108.88	111.17	114.35	116.59	118.72	121.21	123.33	127.21	129.20	971.52	2,109.75
Total	(\$/MWh)	70.74	73.37	262.35	428.16	523.70	467.93	435.72	385.55	440.22	1,316.56	1,195.10	1,304.34	1,116.56	1,007.64	955.50	1,218.38	1,031.86	759.98	710.71	1,200.42	1,051.20	2,300.16
Payments																							
Capacity <sup>(3)</sup>	(\$000)	-	-	3,626	5,336	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)	1,745	1,833	1,847	1,590	1,277	1,513	1,720	2,119	1,870	531	619	581	718	846	934	739	927	1,373	1,573	886	21,291	25,241
Total	(\$000)	1,745	1,833	5,473	7,126	6,912	7,249	7,558	8,060	7,917	6,686	6,884	6,957	7,207	7,451	7,657	7,582	7,892	8,462	8,789	8,230	69,100	137,671

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)	24,673	24,988	20,863	16,644	13,199	15,491	17,345	20,907	17,983	5,078	5,760	5,334	6,455	7,394	8,014	6,223	7,648	11,135	12,366	6,856	-	-
Capacity Factor <sup>(1)</sup>	(%)	5.63%	5.70%	4.76%	3.80%	3.01%	3.54%	3.96%	4.77%	4.11%	1.16%	1.32%	1.22%	1.47%	1.69%	1.83%	1.42%	1.75%	2.54%	2.82%	1.57%	-	-
Payment Rates																							
Capacity	(\$/kW-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	79.68	185.86
Energy <sup>(2)</sup>	(\$/MWh)	70.74	73.37	88.52	95.52	96.78	97.69	99.18	101.36	103.96	104.51	107.47	108.88	111.17	114.35	116.59	118.72	121.21	123.33	127.21	129.20	971.52	2,109.75
Total	(\$/MWh)	70.74	73.37	279.39	456.11	553.25	488.16	449.30	393.02	444.43	1,315.32	1,179.54	1,271.65	1,076.20	960.54	900.92	1,133.52	950.76	695.85	645.26	1,068.22	1,051.20	2,295.61
Payments																							
Capacity <sup>(3)</sup>	(\$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)	1,745	1,833	1,847	1,590	1,277	1,513	1,720	2,119	1,870	531	619	581	718	846	934	739	927	1,373	1,573	886	21,291	46,532
Total	(\$000)	1,745	1,833	5,829	7,592	7,302	7,562	7,793	8,217	7,992	6,679	6,794	6,782	6,947	7,103	7,220	7,054	7,272	7,748	7,979	7,324	69,100	203,868

- The capacity factor % used in this example is 90% of the estimated weighted average capacity factor of the avoided unit and existing CT's of the same type (i.e., aero-derivative) in each year of the contract. The capacity factor assumes no as-available (i.e., non-dispatched) energy is tendered for purchase by the renewable generator after the in-service date of the avoided unit.
- The energy rates in 2011 and 2012 reflect the estimated on-peak as-available energy prices. The energy rate for 2013 is a blended rate based on the estimated on-peak as-available energy rate in January through April and the avoided unit energy rate in May through December. Energy rates beyond 2013 reflect the avoided unit energy price for the year. The energy rates were calculated assuming energy was tendered by the renewable generator only when Tampa Electric would have dispatched the unit. Energy tendered under the non-dispatch condition would be paid at the as-available rate.
- 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.

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**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)	24,673	24,988	20,863	16,644	13,199	15,491	17,345	20,907	17,983	5,078	5,760	5,334	6,455	7,394	8,014	6,223	7,648	11,135	12,366	6,856	-	-
Capacity Factor <sup>(1)</sup>	(%)	5.63%	5.70%	4.76%	3.80%	3.01%	3.54%	3.96%	4.77%	4.11%	1.16%	1.32%	1.22%	1.47%	1.69%	1.83%	1.42%	1.75%	2.54%	2.82%	1.57%	-	-
Payment Rates																							
Capacity	(\$/kW-mo)	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	79.68	169.48
Energy <sup>(2)</sup>	(\$/MWh)	70.74	73.37	88.52	95.52	96.78	97.69	99.18	101.36	103.96	104.51	107.47	108.88	111.17	114.35	116.59	118.72	121.21	123.33	127.21	129.20	971.52	2,109.75
Total	(\$/MWh)	244.09	247.58	300.90	366.46	444.52	399.26	373.30	332.84	377.86	1,091.77	993.39	1,082.63	930.11	841.98	799.92	1,014.45	862.99	641.92	602.51	1,001.78	1,051.20	2,279.23
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)	1,745	1,833	1,847	1,590	1,277	1,513	1,720	2,119	1,870	531	619	581	718	846	934	739	927	1,373	1,573	886	21,291	46,532
Total	(\$000)	6,023	6,186	6,278	6,099	5,867	6,185	6,475	6,959	6,795	5,544	5,722	5,774	6,004	6,226	6,411	6,313	6,600	7,148	7,451	6,868	69,099	196,027

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)	24,673	24,988	20,863	16,644	13,199	15,491	17,345	20,907	17,983	5,078	5,760	5,334	6,455	7,394	8,014	6,223	7,648	11,135	12,366	6,856	-	-
Capacity Factor <sup>(1)</sup>	(%)	5.63%	5.70%	4.76%	3.80%	3.01%	3.54%	3.96%	4.77%	4.11%	1.16%	1.32%	1.22%	1.47%	1.69%	1.83%	1.42%	1.75%	2.54%	2.82%	1.57%	-	-
Payment Rates																							
Capacity	(\$/kW-mo)	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	79.68	163.95
Energy <sup>(2)</sup>	(\$/MWh)	70.74	73.37	88.52	95.52	96.78	97.69	99.18	101.36	103.96	104.51	107.47	108.88	111.17	114.35	116.59	118.72	121.21	123.33	127.21	129.20	971.52	2,109.75
Total	(\$/MWh)	262.26	263.19	316.75	382.71	460.37	408.74	378.12	333.75	375.28	1,069.50	961.99	1,035.79	880.54	789.06	742.05	928.07	782.90	580.06	540.53	878.48	1,051.20	2,273.70
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)	1,745	1,833	1,847	1,590	1,277	1,513	1,720	2,119	1,870	531	619	581	718	846	934	739	927	1,373	1,573	886	21,291	46,532
Total	(\$000)	6,471	6,577	6,608	6,370	6,076	6,332	6,558	6,978	6,749	5,431	5,541	5,525	5,684	5,835	5,947	5,775	5,988	6,459	6,684	6,023	69,099	192,709

(1) The capacity factor % used in this example is 90% of the estimated weighted average capacity factor of the avoided unit and existing CTs of the same type (i.e., zero-derivative) in each year of the contract. The capacity factor assumes no as-available (i.e., non-dispatched) energy is tendered for purchase by the renewable generator after the in-service date of the avoided unit.

(2) The energy rates in 2011 and 2012 reflect the estimated on-peak as-available energy prices. The energy rate for 2013 is a blended rate based on the estimated on-peak as-available energy rate in January through April and the avoided unit energy rate in May through December. Energy rates beyond 2013 reflect the avoided unit energy price for the year. The energy rates were calculated assuming energy was tendered by the renewable generator only when Tampa Electric would have dispatched the unit. Energy tendered under the non-dispatch condition would be paid at the as-available rate.

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**Estimate Payments to 50 MW Renewable Resource providing Firm Capacity**

Scenario: Normal																																											
Year	Capacity (MW)	2011		2012		2013		2014		2015		2016		2017		2018		2019		2020		2021		2022		2023		2024		2025		2026		2027		2028		2029		NPV		Total	
		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	-	-		
Capacity		24,673	24,988	20,863	16,644	13,199	15,491	17,345	20,907	17,983	5,078	5,760	5,334	6,455	7,394	8,014	6,223	7,648	11,135	12,366	6,856	-	-																				
Capacity		5.63%	5.70%	4.76%	3.80%	3.01%	3.54%	3.96%	4.77%	4.11%	1.16%	1.32%	1.22%	1.47%	1.69%	1.83%	1.42%	1.75%	2.54%	2.82%	1.57%	-	-																				
Capacity		-	-	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	79.68	190.41																				
Capacity		70.74	73.37	88.52	95.52	96.78	97.69	99.18	101.36	103.96	104.51	107.47	108.88	111.17	114.35	116.59	118.72	121.21	123.33	127.21	129.20	971.52	2,109.75																				
Capacity		70.74	73.37	262.35	428.16	523.70	467.93	435.72	385.55	440.22	1,316.56	1,195.10	1,304.34	1,116.56	1,007.64	955.50	1,218.38	1,031.86	759.98	710.71	1,200.42	1,051.20	2,300.16																				
Capacity		-	-	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																				
Capacity		1,745	1,833	1,847	1,590	1,277	1,513	1,720	2,119	1,870	531	619	581	718	846	934	739	927	1,373	1,573	886	21,291	25,241																				
Capacity		1,745	1,833	5,473	7,126	6,912	7,249	7,558	8,060	7,917	6,686	6,884	6,957	7,207	7,451	7,657	7,582	7,892	8,462	8,789	8,230	69,100	137,671																				

Scenario: Levelized																																												
Year	Capacity (MW)	2011		2012		2013		2014		2015		2016		2017		2018		2019		2020		2021		2022		2023		2024		2025		2026		2027		2028		2029		NPV		Total		
		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	-	-			
Capacity		24,673	24,988	20,863	16,644	13,199	15,491	17,345	20,907	17,983	5,078	5,760	5,334	6,455	7,394	8,014	6,223	7,648	11,135	12,366	6,856	-	-																					
Capacity		5.63%	5.70%	4.76%	3.80%	3.01%	3.54%	3.96%	4.77%	4.11%	1.16%	1.32%	1.22%	1.47%	1.69%	1.83%	1.42%	1.75%	2.54%	2.82%	1.57%	-	-																					
Capacity		-	-	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	79.68	185.86																					
Capacity		70.74	73.37	88.52	95.52	96.78	97.69	99.18	101.36	103.96	104.51	107.47	108.88	111.17	114.35	116.59	118.72	121.21	123.33	127.21	129.20	971.52	2,109.75																					
Capacity		70.74	73.37	279.39	456.11	553.25	488.16	449.30	393.02	444.43	1,315.32	1,179.54	1,271.65	1,076.20	960.54	900.92	1,133.52	950.76	695.85	645.26	1,068.22	1,051.20	2,295.61																					
Capacity		-	-	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																					
Capacity		1,745	1,833	1,847	1,590	1,277	1,513	1,720	2,119	1,870	531	619	581	718	846	934	739	927	1,373	1,573	886	21,291	46,532																					
Capacity		1,745	1,833	5,829	7,592	7,302	7,562	7,793	8,217	7,992	6,679	6,794	6,782	6,947	7,103	7,220	7,054	7,272	7,748	7,979	7,324	69,100	203,868																					

- The capacity factor % used in this example is 90% of the estimated weighted average capacity factor of the avoided unit and existing CTs of the same type (i.e., acro-derivative) in each year of the contract. The capacity factor assumes no as-available (i.e., non-dispatched) energy is tendered for purchase by the renewable generator after the inservice date of the avoided unit.
- The energy rates in 2011 and 2012 reflect the estimated on-peak as-available energy prices. The energy rate for 2013 is a blended rate based on the estimated on-peak as-available energy rate in January through April and the avoided unit energy rate in May through December. Energy rates beyond 2013 reflect the avoided unit energy price for the year. The energy rates were calculated assuming energy was tendered by the renewable generator only when Tampa Electric would have dispatched the unit. Energy tendered under the non-dispatch condition would be paid at the as-available rate.
- The capacity payment under the Normal and Levelized payment options begins May 1st of 2013 which is the ins-service date of the avoided unit.

**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	Normal
Capacity	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	-	-
Capacity	24,673	24,988	20,863	16,644	13,199	15,491	17,345	20,907	17,983	5,078	5,760	5,334	6,455	7,394	8,014	6,223	7,648	11,135	12,366	6,856	-	-
Capacity	5.63%	5.70%	4.76%	3.80%	3.01%	3.54%	3.96%	4.77%	4.11%	1.16%	1.32%	1.22%	1.47%	1.69%	1.83%	1.42%	1.75%	2.54%	2.82%	1.57%	-	-
Capacity	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	79.68	169.48
Capacity	70.74	73.37	88.52	95.52	96.78	97.69	99.18	101.36	103.96	104.51	107.47	108.88	111.17	114.35	116.59	118.72	121.21	123.33	127.21	129.20	971.52	2,109.75
Capacity	244.09	247.58	300.90	366.46	444.52	399.26	373.30	332.84	377.86	1,091.77	993.39	1,082.63	930.11	841.98	799.92	1,014.45	862.99	641.92	602.51	1,001.78	1,051.20	2,279.23
Capacity	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
Capacity	1,745	1,833	1,847	1,590	1,277	1,513	1,720	2,119	1,870	531	619	581	718	846	934	739	927	1,373	1,573	886	21,291	46,532
Capacity	6,023	6,186	6,278	6,099	5,867	6,185	6,475	6,959	6,795	5,544	5,722	5,774	6,004	6,226	6,411	6,313	6,600	7,148	7,451	6,868	69,099	196,027

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	Normal
Capacity	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	-	-
Capacity	24,673	24,988	20,863	16,644	13,199	15,491	17,345	20,907	17,983	5,078	5,760	5,334	6,455	7,394	8,014	6,223	7,648	11,135	12,366	6,856	-	-
Capacity	5.63%	5.70%	4.76%	3.80%	3.01%	3.54%	3.96%	4.77%	4.11%	1.16%	1.32%	1.22%	1.47%	1.69%	1.83%	1.42%	1.75%	2.54%	2.82%	1.57%	-	-
Capacity	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	79.68	163.95
Capacity	70.74	73.37	88.52	95.52	96.78	97.69	99.18	101.36	103.96	104.51	107.47	108.88	111.17	114.35	116.59	118.72	121.21	123.33	127.21	129.20	971.52	2,109.75
Capacity	262.26	263.19	316.75	382.71	460.37	408.74	378.12	333.75	375.28	1,069.50	961.99	1,035.79	880.54	789.06	742.05	928.07	782.90	580.06	540.53	878.48	1,051.20	2,273.70
Capacity	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
Capacity	1,745	1,833	1,847	1,590	1,277	1,513	1,720	2,119	1,870	531	619	581	718	846	934	739	927	1,373	1,573	886	21,291	46,532
Capacity	6,471	6,577	6,608	6,370	6,076	6,332	6,558	6,978	6,749	5,431	5,541	5,525	5,684	5,835	5,947	5,775	5,988	6,459	6,684	6,023	69,099	192,709

(1) The capacity factor % used in this example is 90% of the estimated weighted average capacity factor of the avoided unit and existing CTs of the same type (i.e., aero-derivative) in each year of the contract. The capacity factor assumes no as-available (i.e., non-dispatched) energy is tendered for purchase by the renewable generator after the inservice date of the avoided unit.

(2) The energy rates in 2011 and 2012 reflect the estimated on-peak as-available energy prices. The energy rate for 2013 is a blended rate based on the estimated on-peak as-available energy rate in January through April and the avoided unit energy rate in May through December. Energy rates beyond 2013 reflect the avoided unit energy price for the year. The energy rates were calculated assuming energy was tendered by the renewable generator only when Tampa Electric would have dispatched the unit. Energy tendered under the non-dispatch condition would be paid at the as-available rate.

CAPACITY PAYMENTS OPTIONS

Year	Normal Payment			
	Payment Rate	NPV*	Annual \$000	NPV
2010				
2011				
2012				
2013	\$ 9.07	\$ 4.80	\$ 3,626	\$ 2,880
2014	\$ 9.23	\$ 6.78	\$ 5,536	\$ 4,071
2015	\$ 9.39	\$ 6.39	\$ 5,635	\$ 3,837
2016	\$ 9.56	\$ 6.03	\$ 5,735	\$ 3,616
2017	\$ 9.73	\$ 5.68	\$ 5,837	\$ 3,408
2018	\$ 9.90	\$ 5.35	\$ 5,941	\$ 3,212
2019	\$ 10.08	\$ 5.05	\$ 6,047	\$ 3,028
2020	\$ 10.26	\$ 4.76	\$ 6,155	\$ 2,854
2021	\$ 10.44	\$ 4.48	\$ 6,265	\$ 2,689
2022	\$ 10.63	\$ 4.22	\$ 6,376	\$ 2,535
2023	\$ 10.82	\$ 3.98	\$ 6,490	\$ 2,389
2024	\$ 11.01	\$ 3.75	\$ 6,605	\$ 2,252
2025	\$ 11.21	\$ 3.54	\$ 6,723	\$ 2,122
2026	\$ 11.40	\$ 3.33	\$ 6,843	\$ 2,000
2027	\$ 11.61	\$ 3.14	\$ 6,965	\$ 1,885
2028	\$ 11.82	\$ 2.96	\$ 7,089	\$ 1,777
2029	\$ 12.03	\$ 2.79	\$ 7,216	\$ 1,675
2030	\$ 12.24	\$ 2.63	\$ 7,344	\$ 1,579
	\$ 190.41	\$ 79.68	\$ 112,430	\$ 47,809

Year	Levelized Payment			
	Payment Rate	NPV*	Annual \$000	NPV
2010				
2011				
2012				
2013	\$ 9.96	\$ 5.27	\$ 3,982	\$ 3,162
2014	\$ 10.00	\$ 7.36	\$ 6,002	\$ 4,413
2015	\$ 10.04	\$ 6.84	\$ 6,025	\$ 4,102
2016	\$ 10.08	\$ 6.36	\$ 6,049	\$ 3,814
2017	\$ 10.12	\$ 5.91	\$ 6,073	\$ 3,546
2018	\$ 10.16	\$ 5.49	\$ 6,098	\$ 3,297
2019	\$ 10.20	\$ 5.11	\$ 6,123	\$ 3,065
2020	\$ 10.25	\$ 4.75	\$ 6,149	\$ 2,851
2021	\$ 10.29	\$ 4.42	\$ 6,175	\$ 2,651
2022	\$ 10.34	\$ 4.11	\$ 6,202	\$ 2,466
2023	\$ 10.38	\$ 3.82	\$ 6,229	\$ 2,293
2024	\$ 10.43	\$ 3.56	\$ 6,257	\$ 2,133
2025	\$ 10.48	\$ 3.31	\$ 6,286	\$ 1,984
2026	\$ 10.52	\$ 3.08	\$ 6,315	\$ 1,846
2027	\$ 10.57	\$ 2.86	\$ 6,345	\$ 1,717
2028	\$ 10.63	\$ 2.66	\$ 6,375	\$ 1,598
2029	\$ 10.68	\$ 2.48	\$ 6,406	\$ 1,487
2030	\$ 10.73	\$ 2.31	\$ 6,438	\$ 1,384
	\$ 185.86	\$ 79.68	\$ 109,527	\$ 47,809

\* NPV in year 2013 for normal and levelized payment rates reflect a May 1st start date (i.e., 8 months of payment)

AVOIDED ENERGY PAYMENTS

Year	Avoided Unit Energy Costs			
	Fuel Cost	O&M Cost	Total Energy Cost	NPV
2010				
2011				
2012				
2013	\$ 89.04	\$ 4.03	\$ 93.07	\$ 73.90
2014	\$ 91.40	\$ 4.12	\$ 95.52	\$ 70.24
2015	\$ 92.57	\$ 4.21	\$ 96.78	\$ 65.90
2016	\$ 93.40	\$ 4.29	\$ 97.69	\$ 61.60
2017	\$ 94.79	\$ 4.38	\$ 99.18	\$ 57.91
2018	\$ 96.88	\$ 4.48	\$ 101.36	\$ 54.80
2019	\$ 99.39	\$ 4.57	\$ 103.96	\$ 52.05
2020	\$ 99.85	\$ 4.67	\$ 104.51	\$ 48.45

Year	Estimated As-available On-Peak Energy Cost			
	Avoided On-Peak Fuel Cost	Avoided O&M Cost	As-Avail Energy Cost	NPV
2010				
2011				
2012				
2013	\$ 68.65	\$ 2.10	\$ 70.74	\$ 65.51
2014	\$ 71.23	\$ 2.14	\$ 73.37	\$ 62.91
2015	\$ 77.25	\$ 2.18	\$ 79.43	\$ 63.07
2016	\$ 72.99	\$ 2.23	\$ 75.22	\$ 55.31
2017	\$ 72.56	\$ 2.28	\$ 74.83	\$ 50.95
2018	\$ 78.95	\$ 2.32	\$ 81.28	\$ 51.25
2019	\$ 76.52	\$ 2.37	\$ 78.89	\$ 46.06
2020	\$ 79.23	\$ 2.42	\$ 81.65	\$ 44.15
	\$ 73.16	\$ 2.47	\$ 75.64	\$ 37.87
	\$ 73.76	\$ 2.53	\$ 76.29	\$ 35.37



2021	\$ 102.71	\$ 4.76	\$ 107.47	\$ 46.14
2022	\$ 104.01	\$ 4.86	\$ 108.88	\$ 43.28
2023	\$ 106.20	\$ 4.97	\$ 111.17	\$ 40.93
2024	\$ 109.28	\$ 5.07	\$ 114.35	\$ 38.98
2025	\$ 111.41	\$ 5.18	\$ 116.59	\$ 36.80
2026	\$ 113.43	\$ 5.29	\$ 118.72	\$ 34.70
2027	\$ 115.82	\$ 5.40	\$ 121.21	\$ 32.81
2028	\$ 117.82	\$ 5.51	\$ 123.33	\$ 30.91
2029	\$ 121.58	\$ 5.63	\$ 127.21	\$ 29.53
2030	\$ 123.46	\$ 5.74	\$ 129.20	\$ 27.77
			\$ 1,970.19	\$ 846.71

\$ 78.50	\$ 2.58	\$ 81.08	\$ 34.81
\$ 86.54	\$ 2.63	\$ 89.17	\$ 35.45
\$ 86.81	\$ 2.69	\$ 89.49	\$ 32.95
\$ 87.07	\$ 2.75	\$ 89.82	\$ 30.62
\$ 91.76	\$ 2.80	\$ 94.56	\$ 29.85
\$ 92.73	\$ 2.86	\$ 95.59	\$ 27.94
\$ 99.19	\$ 2.92	\$ 102.12	\$ 27.64
\$ 103.51	\$ 2.98	\$ 106.49	\$ 26.69
\$ 105.58	\$ 3.05	\$ 108.63	\$ 25.21
\$ 107.69	\$ 3.11	\$ 110.80	\$ 23.82
			\$ 807.43

Early Payment			
Payment Rate	NPV	Annual \$000	NPV
\$ 7.13	\$ 6.60	\$ 4,277	\$ 3,961
\$ 7.26	\$ 6.22	\$ 4,353	\$ 3,733
\$ 7.38	\$ 5.86	\$ 4,431	\$ 3,518
\$ 7.52	\$ 5.53	\$ 4,510	\$ 3,316
\$ 7.65	\$ 5.21	\$ 4,590	\$ 3,125
\$ 7.79	\$ 4.91	\$ 4,672	\$ 2,946
\$ 7.92	\$ 4.63	\$ 4,755	\$ 2,776
\$ 8.07	\$ 4.36	\$ 4,839	\$ 2,617
\$ 8.21	\$ 4.11	\$ 4,926	\$ 2,466
\$ 8.36	\$ 3.87	\$ 5,013	\$ 2,324
\$ 8.50	\$ 3.65	\$ 5,103	\$ 2,191
\$ 8.66	\$ 3.44	\$ 5,194	\$ 2,065
\$ 8.81	\$ 3.24	\$ 5,286	\$ 1,946
\$ 8.97	\$ 3.06	\$ 5,380	\$ 1,834
\$ 9.13	\$ 2.88	\$ 5,476	\$ 1,729
\$ 9.29	\$ 2.72	\$ 5,574	\$ 1,629
\$ 9.46	\$ 2.56	\$ 5,673	\$ 1,536
\$ 9.62	\$ 2.41	\$ 5,775	\$ 1,447
\$ 9.80	\$ 2.27	\$ 5,878	\$ 1,364
\$ 9.97	\$ 2.14	\$ 5,982	\$ 1,286
\$ 169.48	\$ 79.68	\$ 101,686	\$ 47,809

Early Levelized Payment			
Payment Rate	NPV	Annual \$000	NPV
\$ 7.88	\$ 7.29	\$ 4,725	\$ 4,376
\$ 7.91	\$ 6.78	\$ 4,743	\$ 4,067
\$ 7.94	\$ 6.30	\$ 4,761	\$ 3,781
\$ 7.97	\$ 5.86	\$ 4,780	\$ 3,515
\$ 8.00	\$ 5.45	\$ 4,799	\$ 3,268
\$ 8.03	\$ 5.06	\$ 4,819	\$ 3,038
\$ 8.06	\$ 4.71	\$ 4,838	\$ 2,825
\$ 8.10	\$ 4.38	\$ 4,859	\$ 2,627
\$ 8.13	\$ 4.07	\$ 4,879	\$ 2,443
\$ 8.17	\$ 3.79	\$ 4,900	\$ 2,272
\$ 8.20	\$ 3.52	\$ 4,922	\$ 2,113
\$ 8.24	\$ 3.28	\$ 4,944	\$ 1,965
\$ 8.28	\$ 3.05	\$ 4,966	\$ 1,828
\$ 8.32	\$ 2.83	\$ 4,989	\$ 1,701
\$ 8.35	\$ 2.64	\$ 5,013	\$ 1,582
\$ 8.39	\$ 2.45	\$ 5,036	\$ 1,472
\$ 8.43	\$ 2.28	\$ 5,061	\$ 1,370
\$ 8.48	\$ 2.12	\$ 5,086	\$ 1,275
\$ 8.52	\$ 1.98	\$ 5,111	\$ 1,186
\$ 8.56	\$ 1.84	\$ 5,137	\$ 1,104
\$ 163.95	\$ 79.68	\$ 98,369	\$ 47,809

ents instead of 12)

Blended AU and AA					Capacity Factor	90% Capacity Factor
Blended Energy Charges	NPV					
\$ 70.74	\$ 65.51	21900	1,549,235	1,434,610		
\$ 73.37	\$ 62.91	21960	1,611,139	1,381,548	6.3%	5.6%
\$ 88.52	\$ 70.29	21900	1,938,661	1,539,399	6.3%	5.7%
\$ 95.52	\$ 70.24	21900	2,091,922	1,538,195	5.3%	4.8%
\$ 96.78	\$ 65.90	21900	2,119,407	1,443,101	4.2%	3.8%
\$ 97.69	\$ 61.60	21960	2,145,344	1,352,682	3.3%	3.0%
\$ 99.18	\$ 57.91	21900	2,171,940	1,268,128	3.9%	3.5%
\$ 101.36	\$ 54.80	21900	2,219,791	1,200,173	4.4%	4.0%
\$ 103.96	\$ 52.05	21900	2,276,687	1,139,860	5.3%	4.8%
\$ 104.51	\$ 48.45	21960	2,295,124	1,064,071	4.6%	4.1%

\$ 107.47	\$ 46.14	21900	2,353,664	1,010,475	1.3%	1.2%
\$ 108.88	\$ 43.28	21900	2,384,427	947,941	1.5%	1.3%
\$ 111.17	\$ 40.93	21900	2,434,590	896,272	1.4%	1.2%
\$ 114.35	\$ 38.98	21960	2,511,145	856,056	1.6%	1.5%
\$ 116.59	\$ 36.80	21900	2,553,221	806,001	1.9%	1.7%
\$ 118.72	\$ 34.70	21900	2,599,896	760,010	2.0%	1.8%
\$ 121.21	\$ 32.81	21900	2,654,567	718,577	1.6%	1.4%
\$ 123.33	\$ 30.91	21960	2,708,277	678,874	1.9%	1.7%
\$ 127.21	\$ 29.53	21900	2,785,826	646,646	2.8%	2.5%
\$ 129.20	\$ 27.77	21900	2,829,480	608,185	3.1%	2.8%
\$ 2,109.75	\$ 971.52		46,234,344	21,290,804	1.7%	1.6%
			46,234	21,291		