

AUSLEY & McMULLEN

ATTORNEYS AND COUNSELORS AT LAW

123 SOUTH CALHOUN STREET  
P.O. BOX 391 (ZIP 32302)  
TALLAHASSEE, FLORIDA 32301  
(850) 224-9115 FAX (850) 222-7560

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COMMISSION  
CLERK

May 5, 2014

HAND DELIVERED

Ms. Carlotta S. Stauffer  
Commission Clerk  
Florida Public Service Commission  
2540 Shumard Oak Boulevard  
Tallahassee, FL 32399-0850

Re: Petition of Tampa Electric Company for Approval of Revisions to Rate Schedule  
COG-2 for the Standard Offer; Docket No. 140069-EI

Dear Ms. Stauffer:

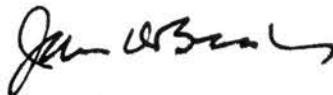
Enclosed for filing in the above-styled matter are the original and five (5) copies of Tampa  
Electric Company's Answers to Staff's First Data Request dated April 18, 2014.

\* Also enclosed are the original and fifteen (15) copies of revised tariff sheet numbers 8.424,  
8.426 and 8.427 to replace the corresponding tariff sheets that accompanied Tampa Electric's April  
1, 2014 Petition. The revised tariff sheets reflect a revised early payment start date. We would  
appreciate your distributing the revised tariff sheets to the recipients of the initial filing.

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

\* Separate filing.  
- Am

COM \_\_\_\_\_  
AFD \_\_\_\_\_  
APA \_\_\_\_\_  
ECO 1 \_\_\_\_\_  
ENG 3 \_\_\_\_\_  
GCL 1 \_\_\_\_\_  
IDM \_\_\_\_\_  
TEL \_\_\_\_\_  
CLK \_\_\_\_\_

**TAMPA ELECTRIC COMPANY**  
**DOCKET NO. 140069-EI**  
**STAFF'S FIRST DATA REQUEST**  
**REQUEST NO. 1**  
**PAGE 1 OF 7**  
**FILED: MAY 5, 2014**

1. Please complete the tables below describing payments to a renewable provider based on the proposed tariffs included in the company's revised standard offer contract. Please assume a renewable generator with 50 MW providing firm capacity with an in-service date of January 1, 2015, operating at the minimum capacity factor required for full capacity payments, for a contract duration of 20 years. Please provide the table for the following five scenarios:
- As-Available Energy (Energy Only)
  - Normal Capacity Payments
  - Levelized Payments
  - Early Payments
  - Early Levelized Payments

Please also provide an explanation of the method and rate used to calculate the NPV. Please calculate the NPV in 2015 dollars.

Year	Energy	Capacity Rate	Total Capacity Payments	Energy Rate	Total Energy Payments	Total Payments
	(MWh)	(\$/kw-mo)	(\$)	(\$/MWh)	(\$)	(\$)
2015						
2016						
2017						
2018						
2019						
2020						
2021						
2022						
2023						
2024						
2025						
2026						
2027						
2028						
2029						
2030						
2031						
2032						
2033						
2034						
Total						
NPV						

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- A. The payments for capacity and energy from a 50 MW a renewable facility with an in-service date of January 1, 2015 under the various options (i.e., as-available only, standard, levelized, early, and early levelized) are provided in the tables on pages 3 through 7 of 7. The payments are based on the renewable facility operating at a 90% capacity factor; however, Tampa Electric's minimum performance standard for capacity is based on net operating factor making it possible to achieve full capacity payments with less than 90% capacity factor.

To determine if all of the payment streams were equal on a Net Present Value or Net Present Worth basis, the company multiplied the payment in each year by the Present Worth Factor:

$$\frac{1}{(1+i)^n}$$

Where

i = discount rate = 7.34%  
n = (payment year - 2015)

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<b>Committed Capacity:</b>	50 MW
<b>Capacity Factor:</b>	90%
<b>Payment Type:</b>	As-Available Energy Only

Year	Energy	Capacity Rate	Total Capacity Payments	Energy Rate	Total Energy Payments	Total Payments
	(MWh)	(\$/kW-mo)	(\$)	(\$/MWh)	(\$)	(\$)
2015	394,200	-	-	36.69	14,463,266	14,463,266
2016	395,280	-	-	38.78	15,328,323	15,328,323
2017	394,200	-	-	34.74	13,693,662	13,693,662
2018	394,200	-	-	37.09	14,620,103	14,620,103
2019	394,200	-	-	39.03	15,385,714	15,385,714
2020	395,280	-	-	42.69	16,874,591	16,874,591
2021	394,200	-	-	45.45	17,915,143	17,915,143
2022	394,200	-	-	47.55	18,743,918	18,743,918
2023	394,200	-	-	50.48	19,897,684	19,897,684
2024	395,280	-	-	54.23	21,436,532	21,436,532
2025	394,200	-	-	57.57	22,693,328	22,693,328
2026	394,200	-	-	58.47	23,050,457	23,050,457
2027	394,200	-	-	61.27	24,150,673	24,150,673
2028	395,280	-	-	64.79	25,610,932	25,610,932
2029	394,200	-	-	68.21	26,888,874	26,888,874
2030	394,200	-	-	69.58	27,428,367	27,428,367
2031	394,200	-	-	72.74	28,673,795	28,673,795
2032	395,280	-	-	77.43	30,605,563	30,605,563
2033	394,200	-	-	81.70	32,207,534	32,207,534
2034	394,200	-	-	83.35	32,857,172	32,857,172
<b>Sum</b>	<b>7,889,400</b>		<b>-</b>		<b>442,525,633</b>	<b>442,525,633</b>
<b>NPV</b>					<b>219,325,291</b>	<b>219,325,291</b>



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<b>Committed Capacity:</b>	<b>50 MW</b>
<b>Capacity Factor<sup>(1)</sup>:</b>	<b>90%</b>
<b>Payment Type:</b>	<b>Normal</b>

Year	Energy	Capacity Rate	Total Capacity Payments <sup>(1)</sup>	Energy Rate <sup>(2)</sup>	Total Energy Payments	Total Payments
	(MWh)	(\$/kW-mo)	(\$)	(\$/MWh)	(\$)	(\$)
2015	394,200	-	-	36.69	14,463,266	14,463,266
2016	395,280	-	-	38.78	15,328,323	15,328,323
2017	394,200	-	-	34.74	13,693,662	13,693,662
2018	394,200	-	-	37.09	14,620,103	14,620,103
2019	394,200	-	-	39.03	15,385,714	15,385,714
2020	395,280	7.13	2,852,333	42.94	16,972,543	19,824,877
2021	394,200	7.34	4,402,200	46.23	18,225,402	22,627,602
2022	394,200	7.55	4,529,504	48.02	18,929,084	23,458,588
2023	394,200	7.77	4,660,518	51.05	20,122,503	24,783,020
2024	395,280	7.99	4,795,349	55.03	21,752,836	26,548,186
2025	394,200	8.22	4,934,112	59.22	23,343,169	28,277,281
2026	394,200	8.46	5,076,919	59.28	23,368,426	28,445,345
2027	394,200	8.71	5,223,892	62.23	24,529,641	29,753,532
2028	395,280	8.96	5,375,150	65.91	26,054,475	31,429,625
2029	394,200	9.22	5,530,821	70.27	27,700,812	33,231,633
2030	394,200	9.49	5,691,033	70.87	27,937,953	33,628,986
2031	394,200	9.76	5,855,921	74.01	29,173,505	35,029,426
2032	395,280	10.04	6,025,620	79.17	31,292,566	37,318,186
2033	394,200	10.33	6,200,274	84.27	33,219,165	39,419,438
2034	394,200	10.63	6,380,026	84.97	33,494,644	39,874,670
<b>Sum</b>	<b>7,889,400</b>		<b>77,533,672</b>		<b>449,607,791</b>	<b>527,141,463</b>
<b>NPV</b>			<b>32,764,117</b>		<b>222,101,860</b>	<b>254,865,977</b>

(1) The capacity payment under the Normal payment option begins May 1st of 2020 which is the in-service date of the avoided unit. Each successive year's payment is based on four months at the previous year's \$/kW-mo rate and eight months at the current year's \$/kW-mo. rate.

(2) The energy rate beginning in 2020 is a weighted blend based on the projected capacity factor of the avoided unit, the estimated avoided unit energy rate, and the estimated as-available energy rate.

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<b>Committed Capacity:</b>	<b>50 MW</b>
<b>Capacity Factor<sup>(1)</sup>:</b>	<b>90%</b>
<b>Payment Type:</b>	<b>Levelized</b>

Year	Energy	Capacity Rate	Total Capacity Payments <sup>(1)</sup>	Energy Rate <sup>(2)</sup>	Total Energy Payments	Total Payments
	(MWh)	(\$/kW-mo)	(\$)	(\$/MWh)	(\$)	(\$)
2015	394,200	-	-	36.69	14,463,266	14,463,266
2016	395,280	-	-	38.78	15,328,323	15,328,323
2017	394,200	-	-	34.74	13,693,662	13,693,662
2018	394,200	-	-	37.09	14,620,103	14,620,103
2019	394,200	-	-	39.03	15,385,714	15,385,714
2020	395,280	8.27	4,961,053	42.94	16,972,543	21,933,596
2021	394,200	8.29	4,976,348	46.23	18,225,402	23,201,750
2022	394,200	8.32	4,991,995	48.02	18,929,084	23,921,078
2023	394,200	8.35	5,008,001	51.05	20,122,503	25,130,504
2024	395,280	8.37	5,024,376	55.03	21,752,836	26,777,213
2025	394,200	8.40	5,041,128	59.22	23,343,169	28,384,297
2026	394,200	8.43	5,058,264	59.28	23,368,426	28,426,690
2027	394,200	8.46	5,075,795	62.23	24,529,641	29,605,436
2028	395,280	8.49	5,093,729	65.91	26,054,475	31,148,204
2029	394,200	8.52	5,112,076	70.27	27,700,812	32,812,888
2030	394,200	8.55	5,130,844	70.87	27,937,953	33,068,797
2031	394,200	8.58	5,150,045	74.01	29,173,505	34,323,550
2032	395,280	8.62	5,169,686	79.17	31,292,566	36,462,252
2033	394,200	8.65	5,189,780	84.27	33,219,165	38,408,945
2034	394,200	8.68	5,210,336	84.97	33,494,644	38,704,979
<b>Sum</b>	<b>7,889,400</b>		<b>76,193,458</b>		<b>449,607,791</b>	<b>525,801,248</b>
<b>NPV</b>			<b>32,764,117</b>		<b>222,101,860</b>	<b>254,865,977</b>

1) The capacity payment under the Levelized payment option begins May 1st of 2020 which is the in-service date of the avoided unit. Each successive year's payment is based on four months at the previous year's \$/kW-mo rate and eight months at the current year's \$/kW-mo. rate.

(2) The energy rate beginning in 2020 is a weighted blend based on the projected capacity factor of the avoided unit, the estimated avoided unit energy rate, and the estimated as-available energy rate.

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<b>Committed Capacity:</b>	<b>50 MW</b>
<b>Capacity Factor:</b>	<b>90%</b>
<b>Payment Type:</b>	<b>Early</b>

Year	Energy	Capacity Rate	Total Capacity Payments	Energy Rate <sup>(1)</sup>	Total Energy Payments	Total Payments
	(MWh)	(\$/kW-mo)	(\$)	(\$/MWh)	(\$)	(\$)
2015	394,200	3.96	2,377,254	36.69	14,463,266	16,840,520
2016	395,280	4.08	2,445,956	38.78	15,328,323	17,774,279
2017	394,200	4.19	2,516,658	34.74	13,693,662	16,210,320
2018	394,200	4.32	2,589,420	37.09	14,620,103	17,209,523
2019	394,200	4.44	2,664,302	39.03	15,385,714	18,050,016
2020	395,280	4.57	2,741,366	42.94	16,972,543	19,713,909
2021	394,200	4.70	2,820,675	46.23	18,225,402	21,046,077
2022	394,200	4.84	2,902,297	48.02	18,929,084	21,831,381
2023	394,200	4.98	2,986,298	51.05	20,122,503	23,108,801
2024	395,280	5.12	3,072,749	55.03	21,752,836	24,825,586
2025	394,200	5.27	3,161,722	59.22	23,343,169	26,504,891
2026	394,200	5.42	3,253,289	59.28	23,368,426	26,621,715
2027	394,200	5.58	3,347,528	62.23	24,529,641	27,877,169
2028	395,280	5.74	3,444,517	65.91	26,054,475	29,498,992
2029	394,200	5.91	3,544,337	70.27	27,700,812	31,245,148
2030	394,200	6.08	3,647,070	70.87	27,937,953	31,585,023
2031	394,200	6.25	3,752,803	74.01	29,173,505	32,926,308
2032	395,280	6.44	3,861,623	79.17	31,292,566	35,154,188
2033	394,200	6.62	3,973,621	84.27	33,219,165	37,192,785
2034	394,200	6.81	4,088,890	84.97	33,494,644	37,583,534
<b>Sum</b>	<b>7,889,400</b>		<b>63,192,374</b>		<b>449,607,791</b>	<b>512,800,165</b>
<b>NPV</b>			<b>32,764,117</b>		<b>222,101,860</b>	<b>254,865,977</b>

(1) The energy rate beginning in 2020 is a weighted blend based on the projected capacity factor or the avoided unit, the estimated avoided unit energy rate, and the estimated as-available energy rate.



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<b>Committed Capacity:</b>	50MW
<b>Capacity Factor:</b>	90%
<b>Payment Type:</b>	Early Levelized

Year	Energy	Capacity Rate	Total Capacity Payments	Energy Rate <sup>(1)</sup>	Total Energy Payments	Total Payments
	(MWh)	(\$/kW-mo)	(\$)	(\$/MWh)	(\$)	(\$)
2015	394,200	4.81	2,887,598	36.69	14,463,266	17,350,864
2016	395,280	4.83	2,896,194	38.78	15,328,323	18,224,517
2017	394,200	4.84	2,904,988	34.74	13,693,662	16,598,650
2018	394,200	4.86	2,913,984	37.09	14,620,103	17,534,086
2019	394,200	4.87	2,923,186	39.03	15,385,714	18,308,901
2020	395,280	4.89	2,932,601	42.94	16,972,543	19,905,144
2021	394,200	4.90	2,942,231	46.23	18,225,402	21,167,633
2022	394,200	4.92	2,952,084	48.02	18,929,084	21,881,167
2023	394,200	4.94	2,962,163	51.05	20,122,503	23,084,666
2024	395,280	4.95	2,972,474	55.03	21,752,836	24,725,310
2025	394,200	4.97	2,983,022	59.22	23,343,169	26,326,191
2026	394,200	4.99	2,993,812	59.28	23,368,426	26,362,238
2027	394,200	5.01	3,004,851	62.23	24,529,641	27,534,492
2028	395,280	5.03	3,016,143	65.91	26,054,475	29,070,618
2029	394,200	5.05	3,027,696	70.27	27,700,812	30,728,508
2030	394,200	5.07	3,039,514	70.87	27,937,953	30,977,467
2031	394,200	5.09	3,051,604	74.01	29,173,505	32,225,109
2032	395,280	5.11	3,063,972	79.17	31,292,566	34,356,537
2033	394,200	5.13	3,076,624	84.27	33,219,165	36,295,789
2034	394,200	5.15	3,089,568	84.97	33,494,644	36,584,211
<b>Sum</b>	<b>7,889,400</b>		<b>59,634,308</b>		<b>449,607,791</b>	<b>509,242,098</b>
<b>NPV</b>			<b>32,764,117</b>		<b>222,101,860</b>	<b>254,865,977</b>

(1) The energy rate beginning in 2020 is a weighted blend based on the projected capacity factor or the avoided unit, the estimated avoided unit energy rate, and the estimated as-available energy rate.