

Docket #10. 14-49-3



A PHI Company

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March 27, 2014

Via E-mail and Overnight Delivery

Ms. Alisa C. Bentley, Secretary
Delaware Public Service Commission
861 Silver Lake Boulevard
Cannon Building, Suite 100
Dover, DE 19904

**RE: MONTHLY FILING - IN THE MATTER OF THE APPLICATION OF DELMARVA
POWER AND LIGHT COMPANY FOR APPROVAL OF PSC DOCKET
NO. 14-49-## QUALIFIED FUEL CELL PROVIDER PROJECT TARIFFS**

Dear Ms. Bentley:

Enclosed for filing are the original and ten copies of Delmarva Power's monthly computation of the Service Classification QFCP-RC charges, including current factors and reconciliation factors as required in Order No. 8136, dated April 17, 2012 in Docket 11-362 and outlined in Tariff Leaf No. 74d Section F. This filing computes rates based on the forecasted QFCP June operations which will be utilized in the May customer billing.

Summary:

The average monthly net impact over the life of the fuel cell project is \$1.35, which remains consistent with what was projected by the PSC staff at the outset (\$1.30) of the project. Included below is a comparison of the projected net monthly impact of the Qualified Fuel Cell Provider project (the "QFCP Project") on the typical residential customer¹ with the actual net monthly impact through June 2014. The analysis compares the projections from the original ICF report and the original PSC Staff report with the actual monthly QFCP filings through this forecast period, respectively. The Net Impact of the QFCP Project on the average residential customer is determined by subtracting the costs ratepayers were able to avoid because of the project (the "Avoided Cost Benefit"), from the monthly charges ratepayers paid to support the project (the "QFCP Project Charge"), and dividing the result by Delmarva's monthly kilowatt-hour sales.²

¹ Typical residential customer is defined as having average monthly usage of 975 kwh.

² All numbers are cumulative from the beginning to respective forecasted month.

QFCP Project Charge:

The monthly QFCP Project Charge is set forth in the monthly QFCP filings with the Delaware Public Service Commission. There are three major factors in computing the monthly charge to ratepayers. The fixed disbursement rate to the QFCP provider represents the largest component of the monthly charge. Because the disbursement rate was set as a fixed and known rate in the original QFCP legislation (*\$166.87 per megawatt-hour for the first 15 years; \$102.00 for years 16-20; \$30 for year 21*), it has the effect of keeping the actual costs relatively close to the estimated costs contained in both the ICF report and the Staff report.

The other two main variables in the monthly charge calculation are 1) the fuel cost of the natural gas and 2) the revenues derived from PJM energy and capacity sales. Fluctuations in PJM energy pricing and natural gas costs will fundamentally offset each other and create a natural hedge. For example, if natural gas prices increase, the revenue resulting from the QFCP Provider selling energy to PJM should also increase and offset the higher gas commodity cost. As long as the gas and the energy markets are correlated, customers should be largely insulated from commodity volatility. This effect should serve to keep the actual costs closely aligned with the model estimated costs throughout the life of the project.

The QFCP Project Charge is shown on Line 1 of the table on page 3. The original ICF estimated QFCP Project Charge, averaged monthly from inception through the June 2014 forecast for the typical residential customer, was expected to be \$2.46. The original PSC staff estimated QFCP Project Charge for the same period was expected to be \$2.54. The actual monthly QFCP Project Charge was \$2.29.

Therefore, for the period through June 2014, customers have been paying, on average, \$0.17 less per month than projected by ICF and \$0.25 less than projected by PSC staff.

Avoided Cost Benefit:

An Avoided Cost Benefit was estimated in both the original ICF report and the original Staff report. In order to estimate the Avoided Cost Benefit, it was necessary to estimate what Delmarva's procurement costs for the Renewable Energy Credits (RECs/SRECs) necessary to comply with the RPS law would have been without the QFCP Project. To develop the estimate, it was assumed that Delmarva would have purchased 50% of its REC/SREC portfolio ahead of need and 50% on the spot market as required to meet RPS requirements.

The Avoided Cost Benefit is shown on Line 2 of the table on page 3. The original ICF estimated avoided cost benefit through the June 2014 forecast period was \$1.94 for the average residential customer. The original PSC Staff estimated avoided cost benefit over the same period was \$1.24. The actual monthly Avoided Cost Benefit through this filing is \$0.94.³

³ While the actual avoided cost benefit is less than the original estimates, it is a conservative estimate of benefits to ratepayers as it does not take into account any benefit related to the reduction in regional capacity pricing as a result of the 30 MW of additional in-state generation and the reduction in the need to import power from elsewhere in the PJM region. It also does not reflect the avoided cost benefits from reduced line losses and any reduced need for future transmission upgrades resulting from the Project's close proximity to population centers, which ultimately translates into lower overall electricity prices.

Therefore, for the period through June 2014, the costs the average residential customer was able to avoid paying were \$1.00 less than projected by ICF and \$0.30 less than projected by the PSC Staff. The difference is driven primarily by actual REC and SREC prices being lower than originally anticipated.

Net Impact:

To determine the average monthly Net Impact to the residential customer, and provide a comparison between the original ICF and PSC Staff projections and the actual QFCP Project results, it is necessary to subtract the Avoided Cost Benefit (Line 2) from the QFCP Project Charge (Line 1).

The Net Impact is shown on Line 3 of the table below. The original ICF projected monthly Net Impact through the June 2014 forecast period was \$0.52 for the average residential customer.⁴ The original PSC Staff projected monthly Net Impact over the same period was \$1.30 for the average residential customer. The actual average monthly Net Impact to date was \$1.35.

Therefore, for the period from the first QFCP filing in 2012 through the attached June 2014 QFCP rate forecast, the actual monthly Net Impact on the average ratepayer has been \$0.81 higher than the 2011 ICF Model's projected monthly Net Impact, and \$0.04 higher than the PSC Staff's projected monthly Net Impact of \$1.26.

Average Cost & Benefits Through May 2014	QFCP Filings	2011 ICF Model Projections	ICF Model Variance Actual to Model	2011 PSC Staff Projections	PSC Staff Variance Actual to Model
QFCP Project Charge (per month)	\$2.29	\$2.46	\$0.17 under	\$2.54	\$0.25 under
Avoided Cost Benefit (per month)	\$0.94	\$1.94	\$1.00 under	\$1.24	\$0.30 under
Net Impact for Typical Delmarva Residential Customer (per month) Line 1 minus line 2	\$1.35	\$0.52	\$0.83 over	\$1.30	\$0.05 over

⁴ It is important to note that the forecast by ICF was provided as an estimate over the 21-year life of the QFCP project. The results described in this letter and as shown in the chart reflect only the results from the project inception to date, which is only a small segment of the 21 year term of the QFCP project.

As required in the Order, this filing is made at least 30 days prior to applying the QFCP-RC charges to customer bills effective billing month May which begins April 29th and ends May 28th.

Please contact me or Kristin McEvoy at (302) 454-4187 with any questions related to this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "Todd L. Goodman", with a long horizontal flourish extending to the right.

Todd L. Goodman

cc: Janis Dillard, DE Public Service Commission
Pam Knotts, DE Public Service Commission
Heather G. Hall, DPL
James B. Jacoby, DPL
Kristin McEvoy, DPL

RJC-1
Delmarva Power & Light Company
Fuel Cell – Renewable Capable Power Production - Monthly Rate Calculation
June 2014 Projection (To be billed in May 2014)

Line	Forecasted QFCP Revenues and Costs	
June 2014		
1	Table 1	
2		
3		
4		
5	Contract Cost	\$ 3,795,993
6	less Market -Based Revenue	\$ 948,999
7	Above Market QFCP Costs (Margin)	\$ 2,846,994
8		
9	Administrative and Other O&M charges	\$ 9,000
10		
11	(Less) Plus Carrying Charge	\$ 26
12		
13	Net QFCP Project Charge	\$ 2,856,020
14	(Less) plus prior month(s) true-up	\$ 65,800
15	Monthly QFCP Project Charge	\$ 2,921,820
		Checksum vs Forecast Tab should be 0 ==> \$ -

Voltage Level Loss (Energy & Capacity) - Adjustment Factor	
16	RESIDENTIAL 1.0636813
17	RES SPACE HEAT 1.0636813
18	Res TOU ND 1.0636813
19	SGS 1.0636813
20	MGS 1.0636813
21	LGS 1.0636813
22	GSP 1.0402971
23	GST 1.0219048

Line	Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7	Col. 8	
25				= Col. 3 Lines 28- 41 / Col. 3			RCF/(1- RCF*UNC Factor)	= Col. 6 x Col. 7	
26	Table 3 Rate Calculation	May 2014	= Col. 1 x Col. 2	= Col. 4 x Line 15	= Col. 5 / Col. 2				
27	Rate Class	Loss Factor	Sales @ Customer (kWh) (BD)	Sales @ Bulk System - Including Losses	Allocation Factor	Allocated Revenue Requirements	QFCP Rate (\$/kWh)	Revenue Conversion Factor Inc Uncollectable	Final QFCP Rate (\$/kWh)
28	Residential	1.06368	123,325,130	131,178,635	0.2191	\$ 640,281	\$ 0.005192	1.012433	\$ 0.005256
29	Residential- Space Heating	1.06368	55,534,317	59,070,815	0.0987	\$ 288,324	\$ 0.005192	1.012433	\$ 0.005256
30	Residential Time-of-Use "R-TOU"	1.06368	1	1	0.0000	\$ 0	\$ 0.005192	1.012433	\$ 0.005256
31	Residential Time-of-Use NON-Demand "R-TOU-ND"	1.06368	97,507	103,716	0.0002	\$ 506	\$ 0.005192	1.012433	\$ 0.005256
32	Small General Service - Sec Non-Demand "SGS-ND"	1.06368	9,332,939	9,927,273	0.0166	\$ 48,455	\$ 0.005192	1.012433	\$ 0.005256
33	Space Heating Sec Serv "SGS-ND" and "MGS-S"	1.06368	1,125,999	1,197,704	0.0020	\$ 5,846	\$ 0.005192	1.012433	\$ 0.005256
34	Water Heating Sec Serv "SGS-ND" and "MGS-S"	1.06368	65,020	69,161	0.0001	\$ 338	\$ 0.005192	1.012433	\$ 0.005256
35	Outdoor Recreational Lighting Svc - Sec "ORL"	1.06368	90,803	96,586	0.0002	\$ 471	\$ 0.005192	1.012433	\$ 0.005256
36	Medium General Service - Secondary "MGS-S"	1.06368	81,180,732	86,350,427	0.1443	\$ 421,475	\$ 0.005192	1.012433	\$ 0.005256
37	Large General Service - Secondary "LGS-S"	1.06368	47,646,176	50,680,346	0.0847	\$ 247,370	\$ 0.005192	1.012433	\$ 0.005256
38	General Service - Primary "GS-P"	1.04030	176,236,927	183,338,764	0.3063	\$ 894,874	\$ 0.005078	1.012433	\$ 0.005141
39	General Service - Transmission "GS-T"	1.02190	70,575,599	72,121,544	0.1205	\$ 352,024	\$ 0.004988	1.012433	\$ 0.005050
40	PL	1.06368	1,113,336	1,184,234	0.0020	\$ 5,780	\$ 0.005192	1.012433	\$ 0.005256
41	SL	1.06368	3,096,273	3,293,448	0.0055	\$ 16,075	\$ 0.005192	1.012433	\$ 0.005256
42	Total kWh		569,420,759	598,612,653	1.0000	\$ 2,921,820			

RJC-2
Delmarva Power & Light Company
Fuel Cell – Renewable Capable Power Production
June 2014 Projection (To be billed in May 2014)

	Projected Jan-14	Projected Feb-14	Projected Mar-14	Projected Apr-14	Projected May-14	Projected Jun-14
1 Costs						
2 QFCP – Renewable Capable Power Production						
3 Contract Price	\$ 166.87	\$ 166.87	\$ 166.87	\$ 166.87	\$ 166.87	\$ 166.87
4 Projected Output Rate (MW)	26.3	26.1	26.1	26.4	26.4	26.4
5 Maximum Monthly Hours of Production	744	672	744	720	744	720
6 Total Contract Costs	<u>\$ 3,265,179</u>	<u>\$ 2,926,766</u>	<u>\$ 3,240,348</u>	<u>\$ 3,171,865</u>	<u>\$ 3,277,594</u>	<u>\$ 3,171,865</u>
7						
8 Gas Supply Costs						
9 Gas Monthly Fixed Costs	\$ 62,305	\$ 61,225	\$ 61,225	\$ 61,225	\$ 61,225	\$ 39,441
10 Gas Cost per Dt	\$ 4.71	\$ 4.39	\$ 4.26	\$ 3.88	\$ 4.25	\$ 4.09
11 Heat rate	7.06	7.05	7.08	7.13	7.16	7.19
12 Monthly Gas Requirements (Dt) (=Line 4 x Line 5 x Line 11)	138,144	123,651	137,482	135,603	140,634	136,668
13 Monthly Cost of Gas= (Line 10 x Line 12)+Line 9+Tax	<u>\$ 742,805</u>	<u>\$ 629,276</u>	<u>\$ 674,608</u>	<u>\$ 611,975</u>	<u>\$ 686,923</u>	<u>\$ 624,128</u>
14						
15 Gas Tracking - Banking Penalty	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
16						
17 Administrative and Other O&M charges	\$ 9,000	\$ 9,000	\$ 9,000	\$ 9,000	\$ 9,000	\$ 9,000
18 Other Indirect Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
19 Total Administrative and Other O&M costs	<u>\$ 9,000</u>					
20						
21 Revenues						
22 PJM Energy Revenue						
23 Estimated Max Monthly Output (MWh)	22,235	20,160	22,320	21,600	22,320	21,600
24 Estimated Unit Capacity Factor	0.880	0.870	0.870	0.880	0.880	0.880
25 Forecasted Monthly Output (=Line 23 x Line 24)	19,567	17,539	19,418	19,008	19,642	19,008
26 LMP @ DPL N Zone (assumed)	\$ 49.94	\$ 42.36	\$ 39.03	\$ 40.54	\$ 41.26	\$ 48.39
27 Total PJM Energy Revenue per month (Line 25 x Line 26)	<u>\$ 977,144</u>	<u>\$ 742,931</u>	<u>\$ 757,948</u>	<u>\$ 770,563</u>	<u>\$ 810,407</u>	<u>\$ 919,764</u>
28						
29 PJM Capacity Revenue						
30 Contract Capacity from PJM	\$ 12,257	\$ 11,071	\$ 12,257	\$ 11,861	\$ 12,257	\$ 18,296
31 Other PJM Revenue and Expenses	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,940
32 Total Capacity Revenue per Month	<u>\$ 12,257</u>	<u>\$ 11,071</u>	<u>\$ 12,257</u>	<u>\$ 11,861</u>	<u>\$ 12,257</u>	<u>\$ 29,235</u>
33						
34 (Less) plus prior month(s) true-up						
35 Retail Revenue Deferral+Actual vs Forecast	\$ (135,686)	\$ 97,383	\$ 357,435	\$ 775,155	\$ 547,542	\$ 65,800
36						
37 (Less) Plus Carrying Charge	<u>\$ (38)</u>	<u>\$ 14</u>	<u>\$ 88</u>	<u>\$ 50</u>	<u>\$ (5)</u>	<u>\$ 26</u>
38						
39 Monthly QFCP Project Charge	<u>\$ 2,891,859</u>	<u>\$ 2,908,437</u>	<u>\$ 3,511,274</u>	<u>\$ 3,785,621</u>	<u>\$ 3,698,390</u>	<u>\$ 2,921,820</u>
40 Contract+Gas Cost-Banking+Admin-Revenue+/- True Up+/- Interest						
41						
42 QFCP-RC Rates	Rates Dec-13	Rates Jan-14	Rates Feb-14	Rates Mar-14	Rates Apr-14	Rates May-14
43 Residential	\$ 0.004045	\$ 0.003888	\$ 0.004771	\$ 0.005477	\$ 0.005982	\$ 0.005256
44 Residential- Space Heating	\$ 0.004045	\$ 0.003888	\$ 0.004771	\$ 0.005477	\$ 0.005982	\$ 0.005256
45 Residential Time-of-Use "R-TOU"	\$ 0.004045	\$ 0.003888	\$ 0.004771	\$ 0.005477	\$ 0.005982	\$ 0.005256
46 Residential Time-of-Use NON-Demand "R-TOU-ND"	\$ 0.004045	\$ 0.003888	\$ 0.004771	\$ 0.005477	\$ 0.005982	\$ 0.005256
47 Small General Service - Sec Non-Demand "SGS-ND"	\$ 0.004045	\$ 0.003888	\$ 0.004771	\$ 0.005477	\$ 0.005982	\$ 0.005256
48 Space Heating Sec Service "SGS-ND" and "MGS-S"	\$ 0.004045	\$ 0.003888	\$ 0.004771	\$ 0.005477	\$ 0.005982	\$ 0.005256
49 Water Heating Sec Service "SGS-ND" and "MGS-S"	\$ 0.004045	\$ 0.003888	\$ 0.004771	\$ 0.005477	\$ 0.005982	\$ 0.005256
50 Outdoor Recreational Lighting Svc - Secondary "ORL"	\$ 0.004045	\$ 0.003888	\$ 0.004771	\$ 0.005477	\$ 0.005982	\$ 0.005256
51 Medium General Service - Secondary "MGS-S"	\$ 0.004045	\$ 0.003888	\$ 0.004771	\$ 0.005477	\$ 0.005982	\$ 0.005256
52 Large General Service - Secondary "LGS-S"	\$ 0.004045	\$ 0.003888	\$ 0.004771	\$ 0.005477	\$ 0.005982	\$ 0.005256
53 General Service - Primary "GS-P"	\$ 0.003956	\$ 0.003802	\$ 0.004666	\$ 0.005357	\$ 0.005851	\$ 0.005141
54 General Service - Transmission "GS-T"	\$ 0.003886	\$ 0.003735	\$ 0.004584	\$ 0.005262	\$ 0.005747	\$ 0.005050
55 Outdoor Lighting PL	\$ 0.004045	\$ 0.003888	\$ 0.004771	\$ 0.005477	\$ 0.005982	\$ 0.005256
56 Outdoor Lighting SL	\$ 0.004045	\$ 0.003888	\$ 0.004771	\$ 0.005477	\$ 0.005982	\$ 0.005256
57 Monthly Net Cost Analysis to the average residential customer (975 KWH per month):						
58 QFCP Project Charge to Avg Residential \$5.12/Month; Estimated Avoided Cost \$2.21/month; Estimated Net impact \$2.91/month						