

Large Customer Group
Rates G-1 and G-2
Illustrative Weighted Average Energy Service Rates For Comparison Purposes Only
August 2017 - January 2018

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
DE 17-058 Energy Service Reconciliation
Schedule HMT-1 Rates
Page 1 of 1

REDACTED

Section 1: Percentage of Medium and Large C&I kWhs Attributable to Energy Service

1 May 2017 Medium and Large C&I Energy Service kWhs	8,074,310
2 May 2017 Total Medium and Large C&I kWhs	<u>41,819,795</u>
3 Percentage of Medium and Large C&I Energy Service kWhs to Total Medium and Large C&I kWhs	19.31%

Section 2: Projected Medium and Large C&I Default Service kWhs, August 2017 - January 2018

	August	September	October	November	December	January	Total
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
4 Projected Total Company Medium and Large kWhs	10,085,371	9,131,729	8,313,455	8,328,752	8,816,554	8,620,051	53,295,912
5 Percentage of Medium and Large C&I Energy Service kWhs to Total Medium and Large C&I kWhs	<u>19.31%</u>	<u>19.31%</u>	<u>19.31%</u>	<u>19.31%</u>	<u>19.31%</u>	<u>19.31%</u>	
6 Projected Medium and Large C&I Energy Service kWhs	1,947,222	1,763,098	1,605,111	1,608,064	1,702,246	1,664,307	10,290,048

Section 3: Medium and Large C&I Default Service Load Weighting for August 2017 - January 2018

	August	September	October	November	December	January	Total
7 Projected Medium and Large C&I Energy Service kWhs	1,947,222	1,763,098	1,605,111	1,608,064	1,702,246	1,664,307	10,290,048
8 Loss Factor							
9 Wholesale Contract Price (\$/MWh)							
10 Base Energy Service Rate (\$/kWh)	\$0.06103	\$0.05955	\$0.05875	\$0.06635	\$0.08365	\$0.10569	
11 Energy Service Reconciliation Adjustment Factor (\$/kWh)	\$0.00335	\$0.00335	\$0.00335	\$0.00335	\$0.00335	\$0.00335	
12 Energy Service Cost Reclassification Adjustment Factor (\$/kWh)	\$0.00304	\$0.00304	\$0.00304	\$0.00304	\$0.00304	\$0.00304	
13 Renewable Portfolio Standard Adder (\$/kWh)	<u>\$0.00425</u>	<u>\$0.00425</u>	<u>\$0.00425</u>	<u>\$0.00425</u>	<u>\$0.00425</u>	<u>\$0.00411</u>	
14 Total Estimated Medium and Large C&I Energy Service Price per kWh	\$0.07167	\$0.07019	\$0.06939	\$0.07699	\$0.09429	\$0.11619	
15 Projected Medium and Large C&I Base Default Service Cost, August 2017 - January 2018	<u>\$ 118.839</u>	<u>\$ 104.993</u>	<u>\$ 94.300</u>	<u>\$ 106.695</u>	<u>\$ 142.393</u>	<u>\$ 175.901</u>	<u>\$ 743.120</u>
16 Weighted Average Medium and Large C&I Base Default Service Charge for August 2017 - January 2018							\$ 0.07221
17 Projected Medium and Large C&I Default Service Cost, August 2017 - January 2018	<u>\$ 139.557</u>	<u>\$ 123.752</u>	<u>\$ 111.379</u>	<u>\$ 123.805</u>	<u>\$ 160.505</u>	<u>\$ 193.376</u>	<u>\$ 852.373</u>
18 Weighted Average Medium and Large C&I Default Service Charge for August 2017 - January 2018							\$ 0.08283

- 1 Per Monthly Energy Service Revenue Reports (Rates G-1 and G-2)
- 2 Per Monthly Total Revenue Reports (Rates G-1 and G-2)
- 3 Line (1) ÷ Line (2)
- 4 Per Company forecast for medium and large C&I rates (Rates G-1 and G-2)
- 5 Line (3)
- 6 Line (4) x Line (5)
- 7 Line (6)
- 8 Line (8) ÷ Line (9), rounded to five decimal places
- 9 Schedule JDW-2 Exhibit 5
- 10 Line (10) x Line (11) / 1000, truncated to five decimal places
- 11 Schedule HMT-5 Page 1, Line 6
- 12 Schedule HMT-7 Page 1, Line 5
- 13 Schedule JDW-2 Exhibit 11
- 14 Line (12) + Line (13) + Line (14) + Line (15) + Line (16) + Line (17)
- 15 Line (7) x Line (12)
- 16 Line (19) total ÷ Line (7) total, truncated after 5 decimal places
- 17 Line (7) x Line (18)
- 18 Line (21) total ÷ Line (7) total, truncated after 5 decimal places

Small Customer Group
(Rates D, D-10, G-3, M, T and V)
Based on Weighted Average Effective Energy Service Prices
August 2017 - January 2018

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
DE 17-058 Energy Service Reconciliation
Schedule HMT-2 Rates
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REDACTED

Section 1: Percentage of Residential and Small C&I kWhs Attributable to Energy Service

1	May 2017 Residential and Small C&I Energy Service kWhs	22,163,184
2	May 2017 Total Residential and Small C&I kWhs	<u>26,697,879</u>
3	Percentage of Residential and Small C&I Energy Service kWh to Total Residential & Small C&I kWh	83.01%

Section 2: Projected Residential and Small C&I Default Service kWhs, August 2017 - January 2018

Section 21 Projected Residential and Small C&I Energy Service kwhs, August 2017 - January 2018								
	August	September	October	November	December	January	Total	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	
4	Projected Total Company Residential and Small C&I kWhs	29,550,671	26,142,866	24,260,962	26,165,781	30,990,855	34,108,478	171,219,614
5	Percentage of Residential and Small C&I Energy Service kWh to Total Residential & Small C&I kWh	<u>83.01%</u>	<u>83.01%</u>	<u>83.01%</u>	<u>83.01%</u>	<u>83.01%</u>	<u>83.01%</u>	
6	Projected Residential and Small C&I Energy Service kWhs	24,531,423	21,702,441	20,140,183	21,721,464	25,726,989	28,315,076	142,137,576

Section 3: Residential and Small C&I Default Service Load Weighting for August 2017 - January 2018

7	Projected Residential and Small C&I Energy Service kWhs	24,531,423	21,702,441	20,140,183	21,721,464	25,726,989	28,315,076	142,137,576
8	Loss Factor							
9	Wholesale Contract Price (\$/MWh)							
10	Base Residential and Small C&I Energy Service Rate (\$/kWh)	\$0.06488	\$0.06617	\$0.06506	\$0.06865	\$0.08430	\$0.10678	
11	Energy Service Reconciliation Adjustment Factor (\$/kWh)	\$0.00335	\$0.00335	\$0.00335	\$0.00335	\$0.00335	\$0.00335	
12	Energy Service Cost Reclassification Adjustment Factor (\$/kWh)	\$0.00133	\$0.00133	\$0.00133	\$0.00133	\$0.00133	\$0.00133	
13	Proposed Renewable Portfolio Standard Adder (\$/kWh)	<u>\$0.00425</u>	<u>\$0.00425</u>	<u>\$0.00425</u>	<u>\$0.00425</u>	<u>\$0.00425</u>	<u>\$0.00411</u>	
14	Total Estimated Residential and Small C&I Energy Service Price per kWh	\$0.07381	\$0.07510	\$0.07399	\$0.07758	\$0.09323	\$0.11557	
15	Projected Residential and Small C&I Energy Service Base Cost, August 2017 - January 2018	<u>\$1,591,599</u>	<u>\$1,436,051</u>	<u>\$1,310,320</u>	<u>\$1,491,178</u>	<u>\$2,168,785</u>	<u>\$3,023,484</u>	<u>\$11,021,417</u>
16	Weighted Average Base Residential and Small C&I Energy Service Charge for August 2017 - January 2018							\$0.07754
17	Projected Residential and Small C&I Energy Service Cost, August 2017 - January 2018	<u>\$1,810,664</u>	<u>\$1,629,853</u>	<u>\$1,490,172</u>	<u>\$1,685,151</u>	<u>\$2,398,527</u>	<u>\$3,272,373</u>	<u>\$12,286,742</u>
18	Weighted Average Residential and Small C&I Energy Service Charge for August 2016 - January 2017							\$0.08644

- 1 Per Monthly Energy Service Revenue Reports (Rates D, D-10, G-3, M,T,V)
- 2 Per Monthly Total Revenue Reports (Rates D, D-10, G-3, M, T, V)
- 3 Line (1) ÷ Line (2)
- 4 Per Company forecast for residential and small C&I rates (Rates D, D-10, G-3, M, T, V)
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- 18 Line (21) total ÷ Line (7) total, truncated after 5 decimal places

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Base Energy Service Reconciliation
August 2016 - July 2017⁽¹⁾

	Month	(Over)/Under Beginning Balance (a)	Base Energy Service Revenue (b)	Base Energy Service Expense (c)	Monthly (Over)/Under (d)	(Over)/Under Ending Balance (e)	Balance Subject to Interest (f)	Effective Interest Rate (g)	Interest (h)	Cumulative Interest (i)
[1]	Jun-16	\$0	\$80,060	\$234,418	\$154,359	\$154,359	\$77,179	3.50%	\$225	\$225
[2]	Jul-16	\$154,584	\$125,380	\$65,780	(\$59,601)	\$94,983	\$124,783	3.50%	\$364	\$589
[3]	Aug-16	\$95,347	\$2,885,486	\$2,956,429	\$70,943	\$166,290	\$130,818	3.50%	\$382	\$382
[4]	Sep-16	\$166,671	\$2,267,253	\$1,605,036	(\$662,217)	(\$495,545)	(\$164,437)	3.50%	(\$480)	(\$98)
[5]	Oct-16	(\$496,025)	\$1,831,962	\$1,554,109	(\$277,853)	(\$773,878)	(\$634,952)	3.50%	(\$1,852)	(\$1,950)
[6]	Nov-16	(\$775,730)	\$1,727,451	\$1,738,660	\$11,209	(\$764,521)	(\$770,125)	3.50%	(\$2,246)	(\$4,196)
[7]	Dec-16	(\$766,767)	\$2,297,731	\$2,706,395	\$408,664	(\$358,103)	(\$562,435)	3.50%	(\$1,640)	(\$5,837)
[8]	Jan-17	(\$359,744)	\$2,577,229	\$3,555,809	\$978,580	\$618,836	\$129,546	3.75%	\$405	(\$5,432)
[9]	Feb-17	\$619,241	\$2,533,616	\$3,471,301	\$937,685	\$1,556,926	\$1,088,084	3.75%	\$3,400	(\$2,032)
[10]	Mar-17	\$1,560,326	\$2,689,551	\$2,675,044	(\$14,507)	\$1,545,819	\$1,553,073	3.75%	\$4,853	\$2,822
[11]	Apr-17	\$1,550,673	\$2,353,143	\$1,741,126	(\$612,017)	\$938,655	\$1,244,664	4.00%	\$4,149	\$6,971
[12]	May-17	\$942,804	\$1,915,367	\$1,611,098	(\$304,269)	\$638,535	\$790,670	4.00%	\$2,636	\$9,606
[13]*	Jun-17	\$641,171	\$2,390,496	\$2,494,344	\$103,848	\$745,019	\$693,095	4.00%	\$2,310	\$11,917
[14]*	Jul-17	\$747,329	\$2,839,228	\$3,062,255	\$223,027	\$970,356	\$858,843	4.00%	\$2,863	\$14,779
[15]	Cumulative (Over)/Under Collection of Base Energy Service:						\$973,219			

⁽¹⁾ [1] & [2] show differences between the actual and estimate from the prior period

- (a) Prior Month Column (e) + Prior Month Column (h)
- (b) Jun-16 Revenue estimate of \$2,606,550 in DE 16-249 minus actual base energy service revenue of \$2,686,610
- (b) Jul-16 Revenue estimate of \$3,067,639 in DE 16-249 minus actual base energy service revenue of \$3,193,019
- (c) Jun-16 Expense estimate of \$1,953,492 in DE 16-249 minus actual base energy service expense of \$2,187,910
- (c) Jul-16 Expense estimate of \$2,602,130 in DE 16-249 minus actual base energy service expense of \$2,667,910
- (d) Column (c) - Column (b)
- (e) Column (a) + Column (d)
- (f) [Column (a) + Column (e)] ÷ 2
- (g) Interest rate on Customer Deposits
- (h) Column (f) x Column (g) / 12
- (i) Column (h) + Prior Month Column (i)
- * Projection

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Energy Service Revenue
August 2016 - July 2017(1)

	Month	Energy Service Revenue (a)	Renewable Portfolio Standard Revenue (b)	Energy Service Adjustment Revenue (c.)	Energy Service Cost Reclass. Adjustment Factor (d)	Border Sales Refund Factor (e)	Base Energy Service Revenue (a)-(b)-(c)-(d)-(e)
[1]	Jun-16	(\$71,110)	(\$147,526)	(\$679)	(\$4,181)	\$1,218	\$80,060
[2]	Jul-16	(\$40,760)	(\$165,689)	(\$86)	(\$520)	\$154	\$125,381
[3]	Aug-16	\$3,196,224	\$174,008	\$28,218	\$113,643	(\$5,130)	\$2,885,486
[4]	Sep-16	\$2,550,456	\$157,933	\$25,611	\$104,316	(\$4,656)	\$2,267,253
[5]	Oct-16	\$2,064,893	\$130,170	\$21,109	\$85,489	(\$3,838)	\$1,831,962
[6]	Nov-16	\$1,943,802	\$120,789	\$19,587	\$79,535	(\$3,561)	\$1,727,451
[7]	Dec-16	\$2,567,748	\$151,945	\$24,640	\$97,912	(\$4,480)	\$2,297,731
[8]	Jan-17	\$3,026,088	\$319,721	\$27,123	\$106,946	(\$4,931)	\$2,577,229
[9]	Feb-17	\$2,799,133	\$155,180	\$23,016	\$91,505	(\$4,185)	\$2,533,616
[10]	Mar-17	\$2,968,782	\$163,191	\$24,204	\$96,237	(\$4,401)	\$2,689,551
[11]	Apr-17	\$2,619,970	\$155,866	\$23,117	\$92,047	(\$4,203)	\$2,353,143
[12]	May-17	\$2,147,253	\$134,557	\$19,957	\$81,001	(\$3,628)	\$1,915,367
[13]*	Jun-17	\$2,663,416	\$158,373	\$23,489	\$95,329	(\$4,271)	\$2,390,496
[14]*	Jul-17	\$3,154,439	\$183,682	\$27,243	\$109,239	(\$4,953)	\$2,839,228
	Total	\$23,737,095	\$1,528,804	\$ 216,623	\$867,632	(\$39,386)	\$21,163,423

(1) [1] & [2] show differences between the actual and estimate from the prior period

(a-e) Line [1] Jun-16 estimate of \$2,954,326 in DE 16-249 minus actual revenue of \$2,883,216

(a-e) Line [2] Jul-16 estimate of \$3,469,406 in DE 16-249 minus actual revenue of \$3,428,646

(a) Lines [3-14] Monthly Revenue Report

(b) Actual kWh sales multiplied by approved RPS Adder

(c) Actual kWh sales multiplied by approved Energy Service Adjustment Factor

(d) Actual kWh sales multiplied by the Energy Service Cost Reclassification Adjustment Factor approved

(e) Actual kWh sales multiplied by the approved Border Sales Refund Factor

* Projection

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Renewable Portfolio Standard Reconciliation
2016 Program Year

	Month	Beginning Balance (a)	Revenue (b)	Expense (c)	Monthly (Over)/Under (d)	Ending Balance (e)	Balance Subject to Interest (f)	Interest Rate (g)	Interest (h)	Cumulative Interest (i)
[1]	Jul-16	\$0	\$148,034	\$125,480	(\$22,555)	(\$22,555)	(\$11,277)	3.50%	(\$33)	(\$33)
[2]	Aug-16	(\$22,587)	\$174,008	\$788,340	\$614,332	\$591,744	\$284,578	3.50%	\$830	\$797
[3]	Sep-16	\$592,574	\$157,933	\$0	(\$157,933)	\$434,641	\$513,608	3.50%	\$1,498	\$2,295
[4]	Oct-16	\$436,139	\$130,170	\$54,900	(\$75,270)	\$360,869	\$398,504	3.50%	\$1,162	\$3,457
[5]	Nov-16	\$362,031	\$120,789	\$0	(\$120,789)	\$241,242	\$301,637	3.50%	\$880	\$4,337
[6]	Dec-16	\$242,122	\$151,945	\$0	(\$151,945)	\$90,177	\$166,149	3.50%	\$485	\$4,822
[7]	Jan-17	\$90,661	\$319,721	\$27,566	(\$292,155)	(\$201,494)	(\$55,416)	3.75%	(\$173)	\$4,649
[8]	Feb-17	(\$201,667)	\$155,180	\$33,195	(\$121,986)	(\$323,652)	(\$262,660)	3.75%	(\$821)	\$3,828
[9]	Mar-17	(\$324,473)	\$163,191	\$18,753	(\$144,438)	(\$468,911)	(\$396,692)	3.75%	(\$1,240)	\$2,588
[10]	Apr-17	(\$470,151)	\$155,866	\$205,867	\$50,001	(\$420,149)	(\$445,150)	4.00%	(\$1,484)	\$1,104
[11]	May-17	(\$421,633)	\$134,557	\$105,560	(\$28,997)	(\$450,630)	(\$436,132)	4.00%	(\$1,454)	(\$349)
[12]*	Jun-17	(\$452,084)	\$158,373	\$0	(\$158,373)	(\$610,457)	(\$531,270)	4.00%	(\$1,771)	(\$2,120)

\$1,969,768 \$1,359,661

Cumulative (Over)/Under Collection of RPS Compliance Costs (\$612,228)

- (a) Prior Month Column (e) + Prior Month Column (h)
 - (b) Actual kWh sales multiplied by the RPS adder
 - (c) From Invoices for RECs, June estimated ACP payment
 - (d) Column (c) - Column (b)
 - (e) Column (a) + Column (d)
 - (f) [Column (a) + Column (e)] ÷ 2
 - (g) Interest Rate on Customer Deposits
 - (h) Column (f) x Column (g) / 12
 - (i) Column (h) + Prior Month Column (i)
- *Projection

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Calculation of Energy Service Adjustment Factor
Effective August 1, 2017

[1] Base Energy Service (Over)/Under Collection	\$973,219
[2] Unbilled Accrual Estimate	(\$1,563,102)
[3] Power Purchase Accrual Estimate	\$2,624,187
[4] Energy Service Adjustment Factor (Over)/Under Collection	\$30,258
[5] RPS (Over)/Under Collection	(\$612,228)
[6] Border Sales Over-Refund	<u>\$27,180</u>
[7] Total (Over)/Under Collection	\$1,479,514
[8] Estimated Energy Service kWh Deliveries	<u>441,290,161</u>
[9] Energy Service Adjustment Factor per kWh	\$0.00335

- [1] Schedule HMT-3, Page 1
- [2] Consistent with the Settlement Agreement in DE 16-383.
- [3] Consistent with the Settlement Agreement in DE 16-383.
- [4] Schedule HMT-5 Page 2
- [5] Schedule HMT-4
- [6] General Ledger plus estimated refund in rates for May 2017 - July 2017
- [7] Sum of Lines 1 - 5
- [8] Per Company forecast
- [9] Line (6) ÷ Line (7), truncated after 5 decimal places

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
DE 17-058 Energy Service Reconciliation
Schedule HMT-5 ES Adjustment Factor Reconciliation
Page 2 of 2

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Reconciliation of Energy Service Adjustment Factor (Over)/Under
Balance Incurred August 2016 - July 2017

	Month	Beginning (Over)/Under Balance (a)	Energy Service Adjustment Revenue (b)	Ending (Over)/Under Balance (c)	Balance Subject to Interest (d)	Effective Interest Rate (e)	Interest (f)	Cumulative Interest (g)
[1]	Aug-16	\$311,381	\$28,218	\$283,163	\$297,272	3.50%	\$867	\$867
[2]	Sep-16	\$284,031	\$25,611	\$258,420	\$271,225	3.50%	\$791	\$1,658
[3]	Oct-16	\$259,211	\$21,109	\$238,102	\$248,657	3.50%	\$725	\$2,383
[4]	Nov-16	\$238,827	\$19,587	\$219,240	\$229,034	3.50%	\$668	\$3,051
[5]	Dec-16	\$219,908	\$24,640	\$195,268	\$207,588	3.50%	\$605	\$3,657
[6]	Jan-17	\$195,874	\$27,123	\$168,751	\$182,312	3.75%	\$570	\$4,227
[7]	Feb-17	\$169,321	\$23,016	\$146,305	\$157,813	3.75%	\$493	\$4,720
[8]	Mar-17	\$146,798	\$24,204	\$122,595	\$134,696	3.75%	\$421	\$5,141
[9]	Apr-17	\$123,016	\$23,117	\$99,898	\$111,457	4.00%	\$372	\$5,512
[10]	May-17	\$100,270	\$19,957	\$80,313	\$90,292	4.00%	\$301	\$5,813
[11]*	Jun-17	\$80,614	\$23,489	\$57,125	\$68,870	4.00%	\$230	\$6,043
[12]*	Jul-17	\$57,355	\$27,243	\$30,112	\$43,733	4.00%	\$146	\$6,189

Total (Over)/Under Collection: \$30,258

- (a) Docket DE 16-249 projected (over)/under collection in HMT-5 P1 Line 5
(b) Actual kWh sales multiplied by the approved Energy Service Adjustment Factor
(c) [Column (a) - Column (b)]
(d) [Column (a) + Column (c)] ÷ 2
(e) Interest rate on Customer Deposits
(f) Column (d) x Column (e) / 12
(g) Column (f) + Prior Month Column (g)
* Projection

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Energy Service Cost Reclassification Adjustment Factor (ESCRAF)
Effective August 1, 2017

	<u>Total</u>	<u>Residential and Small C&I</u>	<u>Medium and Large C&I</u>
[1] Total Forecast of 2017 Costs	\$329,522	\$191,010	\$138,512
[2] Undercollection Related to ESCRAF	<u>\$442,261</u>	<u>\$256,360</u>	<u>\$185,902</u>
[3] Net Estimated Commodity Related Costs	\$771,784	\$447,369	\$324,414
[4] Estimated Forecast Energy Service kWh Deliveries	<u>441,290,161</u>	<u>334,788,349</u>	<u>106,501,812</u>
[5] 2017 ESCRAF per kWh	\$0.00174	\$0.00133	\$0.00304

- [1] Forecast of costs using previous period; Schedule HMT-6, Page 3, Line 4
[2] Schedule HMT-6, Page 2
[3] Line (1) - Line (2)
[4] Per Company forecast
[5] Line (3) ÷ Line (4), truncated after 5 decimal places

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Energy Service Cost Reclassification Adjustment Factor (ESCRAF) Reconciliation
August 2016 - July 2017

	Month	Beginning Balance (a)	Revenue (b)	Expense (c)	Monthly (Over)/Under (d)	Ending Balance (e)	Balance Subject to Interest (f)	Interest Rate (g)	Interest (h)	Cumulative Interest (i)
[1]	Aug-16	\$1,234,746	\$113,643	\$43,834	(\$69,809)	\$1,164,937	\$1,199,842	3.50%	\$3,500	\$3,500
[2]	Sep-16	\$1,168,437	\$104,316	\$25,106	(\$79,210)	\$1,089,227	\$1,128,832	3.50%	\$3,292	\$6,792
[3]	Oct-16	\$1,092,519	\$85,489	\$24,916	(\$60,573)	\$1,031,946	\$1,062,233	3.50%	\$3,098	\$9,890
[4]	Nov-16	\$1,035,045	\$79,535	\$25,008	(\$54,527)	\$980,518	\$1,007,781	3.50%	\$2,939	\$12,830
[5]	Dec-16	\$983,457	\$97,912	\$31,599	(\$66,313)	\$917,144	\$950,301	3.50%	\$2,772	\$15,601
[6]	Jan-17	\$919,916	\$106,946	\$32,888	(\$74,058)	\$845,858	\$882,887	3.75%	\$2,759	\$18,360
[7]	Feb-17	\$848,617	\$91,505	\$33,343	(\$58,163)	\$790,454	\$819,536	3.75%	\$2,561	\$20,921
[8]	Mar-17	\$793,015	\$96,237	\$28,508	(\$67,730)	\$725,286	\$759,151	3.75%	\$2,372	\$23,294
[9]	Apr-17	\$727,658	\$92,047	\$20,029	(\$72,018)	\$655,640	\$691,649	4.00%	\$2,305	\$25,599
[10]*	May-17	\$657,945	\$81,001	\$21,513	(\$59,488)	\$598,457	\$628,201	4.00%	\$2,094	\$27,693
[11]*	Jun-17	\$600,551	\$95,329	\$23,788	(\$71,541)	\$529,011	\$564,781	4.00%	\$1,883	\$29,576
[12]*	Jul-17	\$530,893	\$109,239	\$18,988	(\$90,251)	\$440,642	\$485,768	4.00%	\$1,619	\$31,195

Cumulative (Over)/Under Collection of Energy Service Cost Reclassification Adjustment Provision: \$442,261

(a) Beginning balance is the Net Estimated Commodity Related Costs from DE 16-249 HMT-7 Page 1 line 3

(a) Prior Month Column (e) + Prior Month Column (h)

(b) Actual kWh sales multiplied by approved ESCRAF

(c) HMT-6 Page 4 Column (d)

(d) Column (c) - Column (b)

(e) Column (a) + Column (d)

(f) [Column (a) + Column (e)] ÷ 2

(g) Interest Rate on Customer Deposits

(h) Column (f) x Column (g) / 12

(i) Column (h) + Prior Month Column (i)

* Projection

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Energy Service Cost Reclassification Adjustment Factor (ESCRAF)
Expense Summary August 2016 - July 2017

	<u>Total</u>	<u>Residential and Small C&I</u>	<u>Medium and Large C&I</u>
<u>Wholesale Costs:</u>			
[1] Procurement and Ongoing Administration Costs	\$18,858	\$9,429	\$9,429
<u>Direct Retail:</u>			
[2] Bad Debt Expense	<u>\$209,412</u>	<u>\$122,400</u>	<u>\$87,012</u>
<u>Cash Working Capital:</u>			
[3] Working Capital Impact	<u>\$101,252</u>	<u>\$59,181</u>	<u>\$42,071</u>
[4] Total Estimated Commodity Related Costs	\$329,522	\$191,010	\$138,512

[1] Schedule HMT-6 Page 4 Column (a), allocated evenly

[2] Estimated based on actual 2016 bad debt calculation. Allocated to customer group based on method agreed to in the settlement in DE 05-126.

[3] Schedule HMT-6 Page 4 Column (c.0. Allocated to customer group based on DR 95-169 allocation.

[4] Line (1) + Line (2) + Line (3)

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Energy Service Cost Reclassification Adjustment Factor Expenses
August 2016 - July 2017

		Payroll and Other Admin Expenses (a)	Bad Debt Expense (b)	Cash Working Capital Expense (c)	Total Expense (d)
[1]	Aug-16	\$0	\$35,397	\$8,438	\$43,834
[2]	Sep-16	\$0	\$16,669	\$8,438	\$25,106
[3]	Oct-16	\$1,440	\$15,038	\$8,438	\$24,916
[4]	Nov-16	\$3,787	\$12,784	\$8,438	\$25,008
[5]	Dec-16	\$5,441	\$17,721	\$8,438	\$31,599
[6]	Jan-17	\$0	\$24,451	\$8,438	\$32,888
[7]	Feb-17	\$427	\$24,478	\$8,438	\$33,343
[8]	Mar-17	\$439	\$19,631	\$8,438	\$28,508
[9]	Apr-17	\$0	\$11,591	\$8,438	\$20,029
[10]	May-17	\$2,525	\$10,551	\$8,438	\$21,513
[11]*	Jun-17	\$4,800	\$10,551	\$8,438	\$23,788
[12]*	Jul-17	\$0	\$10,551	\$8,438	\$18,988
	Total	\$18,858	\$209,412	\$101,252	\$329,522

(a) Per general ledger

(b) Actual bad debt calculation for period

(c) HMT-6 Page 5 Line 7 / 12

(d) Column (a) + Column (b) + Column (c)

* Projection based on previous period's costs

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Energy Service Cost Reclassification Adjustment Factor Expenses
Working Capital Summary

	Days of <u>Cost</u> (a)	Annual <u>Percent</u> (b)	Customer Payment <u>Lag %</u> (c)	<u>CWC %</u> (d)	<u>Expense</u> (e)	Working Capital <u>Requirement</u> (f)
[1] 2016 Purchase Power Costs	(45.612)	-12.46%	18.62%	6.16%	\$29,434,707	\$1,813,178
[2] Renewable Portfolio Standard	(229.558)	-62.72%	18.62%	-44.10%	\$1,969,768	<u>(\$868,668)</u>
[3] Working Capital Requirement						\$944,510
[4] Capital Structure Post-tax						7.64%
[5] Working Capital Impact						<u>\$72,161</u>
[6] Capital Structure Pre-tax						<u>10.72%</u>
[7] Working Capital Impact						\$101,252

Columns:

- [1](a) Schedule HMT-6 Page 6
- [2](a) Schedule HMT-6 Page 7
- (b) Column (a) ÷ 366
- (c) Schedule HMT-6 Page 8
- (d) Column (b) + Column (c)
- [1](e) Schedule HMT-6 Page 6
- [2](e) Schedule HMT-6 Page 7
- (f) Column (d) x Column (e)

Lines:

- [4] Docket No. DE 16-383
- [5] Line (3) x Line (4)
- [6] Docket No. DE 16-383
- [7] Line (3) x Line (6)

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Energy Service Cost Reclassification Adjustment Factor Expenses

Invoice Month (a)	Expense Description (b)	Invoice Amount (c)	Mid-Point Service Period (d)	Invoice Date (e)	Due Date (f)	Payment Date (g)	Elapsed Days (h)	% of Total (i)	Weighted Days (j)
January 2016	Current Charge for January 2016	\$ 1,238,928.50	1/16/2016	2/10/2016	2/22/2016	2/19/2016	34	4.21%	1.43
January 2016	Supplier Reallocation for September 2015	\$ 64,441.63	1/16/2016	2/10/2016	2/22/2016	2/19/2016	34	0.22%	0.07
January 2016	Current Charge for January 2016	\$ 3,467,217.36	1/16/2016	2/5/2016	3/7/2016	3/4/2016	48	11.78%	5.65
January 2016	Supplier Reallocation for September 2015	\$ (83,064.75)	1/16/2016	2/9/2016	2/24/2016	2/12/2016	27	0.00%	0.00
February 2016	Current Charge for February 2016	\$ 1,049,150.48	2/15/2016	3/10/2016	3/21/2016	3/18/2016	32	3.56%	1.14
February 2016	Supplier Reallocation for October 2015	\$ 68,317.55	2/15/2016	3/10/2016	3/21/2016	3/18/2016	32	0.23%	0.07
February 2016	Current Charge for February 2016	\$ 2,947,763.04	2/15/2016	3/10/2016	4/4/2016	3/30/2016	44	10.01%	4.41
February 2016	Supplier Reallocation for October 2015	\$ (89,471.95)	2/15/2016	3/10/2016	3/31/2016	3/14/2016	28	0.00%	0.00
March 2016	Current Charge for March 2016	\$ 742,346.28	3/16/2016	4/14/2016	4/29/2016	4/28/2016	43	2.52%	1.08
March 2016	Supplier Reallocation for November 2015	\$ 24,291.17	3/16/2016	4/14/2016	4/29/2016	4/28/2016	43	0.08%	0.04
March 2016	Current Charge for March 2016	\$ 1,997,709.53	3/16/2016	4/11/2016	5/5/2016	5/4/2016	49	6.79%	3.33
March 2016	Supplier Reallocation for November 2015	\$ 9,267.45	3/16/2016	4/11/2016	5/5/2016	4/12/2016	27	0.03%	0.01
April 2016	Current Charge for April 2016	\$ 523,608.90	4/15/2016	5/10/2016	5/20/2016	5/19/2016	34	1.78%	0.60
April 2016	Supplier Reallocation for December 2015	\$ (35,207.50)	4/15/2016	5/10/2016	5/20/2016	5/19/2016	34	0.00%	0.00
April 2016	Current Charge for April 2016	\$ 1,570,734.04	4/15/2016	5/6/2016	6/6/2016	6/3/2016	49	5.34%	2.61
April 2016	Supplier Reallocation for December 2015	\$ 36,796.60	4/15/2016	5/6/2016	6/6/2016	6/3/2016	49	0.13%	0.06
May 2016	Current Charge for May 2016	\$ 507,967.07	5/16/2016	6/10/2016	6/30/2016	6/29/2016	44	1.73%	0.76
May 2016	Supplier Reallocation for January 2016	\$ 12,163.35	5/16/2016	6/10/2016	6/20/2016	6/16/2016	31	0.04%	0.01
May 2016	Current Charge for May 2016	\$ 1,208,247.44	5/16/2016	6/10/2016	7/5/2016	7/1/2016	46	4.10%	1.89
May 2016	Supplier Reallocation for January 2016	\$ 13,202.22	5/16/2016	6/10/2016	7/5/2016	7/1/2016	46	0.04%	0.02
June 2016	Current Charge for June 2016	\$ 515,885.26	6/15/2016	7/8/2016	7/29/2016	7/28/2016	43	1.75%	0.75
June 2016	Supplier Reallocation for February 2016	\$ (3,687.11)	6/15/2016	7/14/2016	7/25/2016	7/19/2016	34	0.00%	0.00
June 2016	Current Charge for June 2016	\$ 1,439,914.89	6/15/2016	7/8/2016	8/1/2016	8/3/2016	49	4.89%	2.40
June 2016	Supplier Reallocation for February 2016	\$ 59,914.66	6/15/2016	7/8/2016	8/1/2016	8/3/2016	49	0.20%	0.10
July 2016	Current Charge for July 2016	\$ 555,177.08	7/16/2016	8/10/2016	8/31/2016	8/31/2016	46	1.89%	0.87
July 2016	Supplier Reallocation for March 2016	\$ 36,381.07	7/16/2016	8/10/2016	8/22/2016	8/19/2016	34	0.12%	0.04
July 2016	Current Charge for July 2016	\$ 1,945,809.31	7/16/2016	8/9/2016	9/5/2016	9/2/2016	48	6.61%	3.17
July 2016	Supplier Reallocation for March 2016	\$ 23,885.85	7/16/2016	8/9/2016	9/5/2016	9/2/2016	48	0.08%	0.04
August 2016	Current Charge for August 2016	\$ 556,168.59	8/16/2016	9/9/2016	9/20/2016	9/19/2016	34	1.89%	0.64
August 2016	Supplier Reallocation for April 2016	\$ 22,403.47	8/16/2016	9/10/2016	9/20/2016	9/16/2016	31	0.08%	0.02
August 2016	Current Charge for August 2016	\$ 1,581,872.72	8/16/2016	9/6/2016	10/5/2016	10/5/2016	50	5.37%	2.69
August 2016	Supplier Reallocation for April 2016	\$ (18,874.90)	8/16/2016	9/6/2016	10/5/2016	10/5/2016	50	0.00%	0.00
September 2016	Current Charge for September 2016	\$ 414,331.00	9/15/2016	10/6/2016	10/20/2016	10/19/2016	34	1.41%	0.48
September 2016	Supplier Reallocation for May 2016	\$ 673.51	9/15/2016	10/19/2016	10/31/2016	10/28/2016	43	0.00%	0.00
September 2016	Current Charge for September 2016	\$ 1,146,512.45	9/15/2016	10/5/2016	11/4/2016	11/3/2016	49	3.90%	1.91
September 2016	Supplier Reallocation for May 2016	\$ 34,816.40	9/15/2016	10/5/2016	11/4/2016	11/3/2016	49	0.12%	0.06
October 2016	Current Charge for October 2016	\$ 369,808.91	10/16/2016	11/3/2016	11/18/2016	11/16/2016	31	1.26%	0.39
October 2016	Supplier Reallocation for June 2016	\$ (22,770.92)	10/16/2016	11/23/2017	11/30/2017	1/23/2017	99	0.00%	0.00
October 2016	Current Charge for October 2016	\$ 1,053,449.65	10/16/2016	11/4/2016	12/5/2016	12/2/2016	47	3.58%	1.68
October 2016	Supplier Reallocation for June 2016	\$ 9,207.09	10/16/2016	11/4/2016	12/5/2016	12/2/2016	47	0.03%	0.01
November 2016	Current Charge for November 2016	\$ 462,815.43	11/15/2016	12/7/2016	12/20/2016	12/19/2016	34	1.57%	0.53
November 2016	Supplier Reallocation for July 2016	\$ 40,862.06	11/15/2016	12/20/2016	12/30/2016	12/20/2016	35	0.14%	0.05
November 2016	Current Charge for November 2016	\$ 1,266,113.75	11/15/2016	12/9/2016	1/4/2017	1/3/2017	49	4.30%	2.11
November 2016	Supplier Reallocation for July 2016	\$ (95,429.98)	11/16/2016	12/9/2016	1/4/2017	1/3/2017	48	0.00%	0.00
December 2016	Current Charge for December 2016	\$ 675,309.75	12/16/2016	1/9/2017	1/20/2017	1/19/2017	34	2.29%	0.78
December 2016	Supplier Reallocation for August 2016	\$ 7,822.97	12/16/2016	1/9/2017	1/20/2017	1/19/2017	34	0.03%	0.01
December 2016	Current Charge for December 2016	\$ 2,080,732.67	12/16/2016	1/6/2017	2/6/2017	2/6/2017	52	7.07%	3.68
December 2016	Supplier Reallocation for August 2016	\$ 1,192.64	12/16/2016	1/6/2017	2/6/2017	2/6/2017	52	0.00%	0.00

[1] Total \$29,434,707 Days 45.61

Columns:

- | | |
|--|--|
| (a) Month in which obligation for payment occurred | (f) Per agreements |
| (b) Per invoices | (g) Date paid |
| (c) Per invoices | (h) Number of days between Column (d) and Column (g) |
| (d) Midpoint of applicable service period | (i) Column (c) ÷ Line (1) |
| (e) Per invoices | (j) Column (h) x Column (i) |

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
DE 17-058 Energy Service Reconciliation
Schedule HMT-6 ES Cost Reclassification Adj Factor
Page 7 of 8

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
RPS Obligation Program Year 2016

Invoice Month	Obligation Amount	Mid-Point of Service Period	Due Date	Elapsed (Days)	% of Total	Weighted Days
(a)	(b)	(c)	(d)	(e)	(f)	(g)
Jul-16	\$148,034	7/16/2016	3/31/2017	258	7.52%	19.39
Aug-16	\$174,008	8/16/2016	3/31/2017	227	8.83%	20.05
Sep-16	\$157,933	9/15/2016	3/31/2017	197	8.02%	15.80
Oct-16	\$130,170	10/16/2016	6/30/2017	257	6.61%	16.98
Nov-16	\$120,789	11/15/2016	6/30/2017	227	6.13%	13.92
Dec-16	\$151,945	12/16/2016	6/30/2017	196	7.71%	15.12
Jan-17	\$319,721	1/16/2017	9/30/2017	257	16.23%	41.71
Feb-17	\$155,180	2/14/2017	9/30/2017	228	7.88%	17.96
Mar-17	\$163,191	3/16/2017	9/30/2017	198	8.28%	16.40
Apr-17	\$155,866	4/15/2017	12/31/2017	260	7.91%	20.57
May-17	\$134,557	5/16/2017	12/31/2017	229	6.83%	15.64
Jun-17	\$158,373	6/15/2017	12/31/2017	199	8.04%	16.00
[1] Total \$1,969,768					[2] Days	229.56

Columns:

- (a) Month in which obligation occurred
- (b) Obligation based on kWh sales multiplied by the approved RPS rates for period
- (c) Midpoint of Service Period
- (d) Date of Obligation for Payment
- (e.) Number of days between Column (c) and Column (d)
- (f) Column (b) / Line 1
- (g) Column (c) multiplied by Column (e.)

Lines:

- (1) Sum of Column (b)
- (2) Sum of Column (g)

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Revenue Lead/Lag Applied to Energy Service

<u>Service Period</u>		<u>Monthly Customer Accts.Receivable</u> (a)	<u>Monthly Sales</u> (b)	<u>Days In Month</u> (c)	<u>Average Daily Revenues</u> (d)
1/1/2016	1/31/2016	\$14,673,614	\$9,591,986	31	\$309,419
2/1/2016	2/29/2016	\$14,654,627	\$9,090,524	29	\$313,466
3/1/2016	3/31/2016	\$13,371,955	\$8,232,049	31	\$265,550
4/1/2016	4/30/2016	\$14,165,839	\$8,770,676	30	\$292,356
5/1/2016	5/31/2016	\$11,315,182	\$6,361,539	31	\$205,211
6/1/2016	6/30/2016	\$10,559,100	\$6,473,553	30	\$215,785
7/1/2016	7/31/2016	\$11,876,172	\$7,614,862	31	\$245,641
8/1/2016	8/31/2016	\$11,859,057	\$7,568,693	31	\$244,151
9/1/2016	9/30/2016	\$10,671,065	\$6,648,961	30	\$221,632
10/1/2016	10/31/2016	\$9,446,507	\$5,633,559	31	\$181,728
11/1/2016	11/30/2016	\$8,820,435	\$5,358,345	30	\$178,611
12/1/2016	12/31/2016	\$9,937,766	\$6,476,381	31	\$208,916
Average		\$11,779,277			\$240,205
[1] Service Lag					15.21
[2] Collection Lag					49.04
[3] Billing Lag					2.92
[4] Payment Processing and Bank Float Lag					<u>1.00</u>
[5] Total Average Days Lag					68.17
[6] Customer Payment Lag-annual percent					18.62%

Columns:

- (a) Accounts Receivable per general ledger at end of applicable month
- (b) Per Company billing data
- (c) Number of days in applicable service period
- (d) Column (b) ÷ Column (c.)

Lines:

- [1] Docket No. DE 16-383
- [2] (a) / (d)
- [3] Docket No. DE 16-383
- [4] Per Staff Recommendation in Docket DE 09-010
- [5] Sum of Lines 1-4
- [6] Line (5) ÷ 366

