



**STATE OF NEW HAMPSHIRE
BEFORE THE
PUBLIC UTILITIES COMMISSION**

Docket No. DE 20-053

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Energy Service for the Period August 1, 2020, to January 31, 2021

Reconciliation for the Period August 1, 2019, to July 31, 2020

DIRECT TESTIMONY

OF

ADAM M. HALL

AND

DAVID B. SIMEK

May 22, 2020

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1 **I. INTRODUCTION AND QUALIFICATIONS**

2 **Q. Please state your full name, business address, and position.**

3 A. (AH) My name is Adam M. Hall. My business address is 15 Buttrick Road,
4 Londonderry, New Hampshire. My title is Analyst, Rates and Regulatory Affairs.

5 (DS) My name is David B. Simek. My business address is 15 Buttrick Road,
6 Londonderry, New Hampshire. My title is Manager, Rates and Regulatory Affairs.

7 **Q. By whom are you employed?**

8 A. We are employed by Liberty Utilities Service Corp. (“Liberty”), which provides services
9 to Liberty Utilities (Granite State Electric) Corp. (“Granite State” or “the Company”).

10 **Q. Please describe your educational background and your business and professional**
11 **experience.**

12 A. (AH) I graduated from Siena College in 2014 with a Bachelor of Science in Finance. I
13 also received a Master’s of Business Administration from Franklin Pierce University in
14 2016. I joined Liberty Utilities as an Analyst, Rates and Regulatory Affairs in January
15 2019. Prior to this, I was employed by Southern New Hampshire University from 2016
16 to 2019.

17 (DS) I graduated from Ferris State University in 1993 with a Bachelor of Science in
18 Finance. I received a Master’s of Science in Finance from Walsh College in 2000. I also
19 received a Master’s of Business Administration from Walsh College in 2001. In 2006, I
20 earned a Graduate Certificate in Power Systems Management from Worcester
21 Polytechnic Institute. In August 2013, I joined Liberty as a Utility Analyst and I was

1 promoted to Manager, Rates and Regulatory Affairs in August 2017. Prior to my
2 employment at Liberty, I was employed by NSTAR Electric & Gas (“NSTAR”) as a
3 Senior Analyst in Energy Supply from 2008 to 2012. Prior to my position in Energy
4 Supply at NSTAR, I was a Senior Financial Analyst within the NSTAR Investment
5 Planning group from 2004 to 2008.

6 **Q. Have you previously testified before the New Hampshire Public Utilities**
7 **Commission (“the Commission”)?**

8 A. (AH) Yes, I have recently testified in Docket’s DE 20-036 and DE 20-040.

9 (DS) Yes, I have testified on numerous occasions before the Commission.

10 **II. PURPOSE OF TESTIMONY**

11 **Q. What is the purpose of your testimony?**

12 A. The purpose of our testimony is to present Liberty Utilities’ proposed Energy Service
13 reconciliation for the period of August 1, 2019, to July 31, 2020. Our testimony includes
14 the results of: (i) the reconciliation of Energy Service power supply expense and
15 applicable revenue (“Energy Service Reconciliation”); (ii) the reconciliation of the
16 Company’s cost of complying with its actual 2019 Renewable Portfolio Standard
17 obligations and the applicable revenue (“Renewable Portfolio Standard Reconciliation”);
18 and (iii) the reconciliation of the administrative cost of providing Energy Service and the
19 applicable revenue (“Energy Service Cost Reclassification Adjustment Factor –ESCRAF-
20 Reconciliation”).

1 Liberty Utilities is not proposing new Energy Service rates at this time. The Company
2 will propose new rates when it submits its rate filing on June 22, 2020. This filing only
3 addresses the reconciliation portion of the rate calculation.

4 **Q. Did you perform your analyses consistent with processes and procedures for similar**
5 **filings in previous years?**

6 A. Yes. We have performed our analyses consistent with past methods and practices. The
7 actual revenues and costs tie to the Company's books.

8 **Q. Please provide the list of schedules attached to your testimony.**

9 A.	Schedule AMH/DBS-3	Base Energy Service Expense Reconciliation
10	Schedule AMH/DBS-4	Renewable Portfolio Standard Reconciliation
11	Schedule AMH/DBS-5	Reconciliation and Calculation of Proposed Energy
12		Service Adjustment Factor
13	Schedule AMH/DBS-6	Reconciliation and Calculation of Proposed Energy
14		Service Cost Reclassification Adjustment Factor

15 Schedules AMH/DBS-1 and AMH/DBS-2 (not attached) will provide rate calculations
16 based on the winning bids. These schedules will be filed with the full Energy Service
17 filing on June 22, 2020.

18 **III. RECONCILIATION OF ENERGY SERVICE ADJUSTMENT FACTOR (ESAF)**

19 **Q. Please summarize the Company's ESAF reconciliation.**

20 A. The Company calculates the differences between revenues and costs for the following
21 items for the reconciliation filing:

- 22 • Energy Service Reconciliation – power supply

- 1 • Renewable Portfolio Standard (RPS) reconciliation - costs for complying
- 2 with its RPS obligations
- 3 • Energy Service Adjustment Provision, which consists of two components:
- 4 ○ Energy Service Adjustment Factor (ESAF) reconciliation – any
- 5 over- or under- collection of the prior period’s ESAF
- 6 ○ Energy Service Cost Reclassification Adjustment Factor
- 7 (ESCRAF) reconciliation – any over- or under- collection of the
- 8 prior period’s ESCRAF

9 **IV. ENERGY SERVICE RECONCILIATION**

10 **Q. Is the Company presenting a reconciliation of Energy Service power supply costs**
11 **and revenues in this filing?**

12 A. Yes. The Energy Service Reconciliation for the period August 2019 through July 2020 is
13 presented in Schedule AMH/DBS-3.

14 **Q. Please explain the Energy Service Reconciliation.**

15 A. Schedule AMH/DBS-3, page 1, presents the reconciliation of Energy Service revenue
16 and Energy Service expense by month for the reconciliation period. The detail behind
17 each month’s Energy Service revenue is included on page 2 of Schedule AMH/DBS-3.
18 The detail behind each month’s Energy Service expense is included on page 3 of
19 Schedule AMH/DBS-3.

1 **Q. On Schedule AMH/DBS-3, page 2, why is the Company subtracting amounts from**
2 **Energy Service revenue in column (a) for the other components of revenue in**
3 **columns (b) through (e)?**

4 A. Any revenue relating to the RPS compliance, Energy Service Adjustment Factor, and the
5 Energy Service Cost Reclassification Adjustment Factor is reconciled separately from
6 Energy Service revenue. To perform these separate reconciliations, the revenue for these
7 items are subtracted from the total Energy Service revenue billed to customers in order to
8 properly reflect the base Energy Service revenue for the current reconciliation period.

9 **Q. What is the result of the Company's Energy Service Reconciliation for the period**
10 **ending July 2020?**

11 A. As shown on Schedule AMH/DBS-3, page 1 of 3, the Company has estimated an under-
12 collection of Energy Service power supply costs of \$412,659 and will reflect this under-
13 collection in its proposed Energy Service Adjustment Factor to take effect August 1,
14 2020. This projected under-collection is partially due to the difference in projected
15 revenues based on a sales forecast in Docket No. DE 19-059 Energy Service proceeding
16 used to calculate a rate, versus the actual kilowatt-hours sold in the same period.

17 **Q. Is the Company presenting a reconciliation of the cost of complying with the**
18 **Renewable Portfolio Standard obligation in this filing?**

19 A. Yes. The RPS Reconciliation for the period July 2019 through June 2020 is presented in
20 Schedule AMH/DBS-4. Although the RPS program year is a calendar year, the
21 reconciliation year is July 2019 through June 2020 because the Company may purchase
22 Renewable Energy Certificates (RECs) and make Alternative Compliance Payments

1 (ACPs) to meet its 2019 RPS obligations through June 2020. The expenses associated
2 with the 2019 program year are accounted for through June 15, 2020, because the trading
3 period for the 2019 program year ends on June 15, 2020. After this date, the Company
4 will know its obligations for RPS compliance and/or to pay the ACPs for the previous
5 year.

6 **Q. Please explain the Renewable Portfolio Standard Reconciliation.**

7 A. Schedule AMH/DBS-4 presents the actual reconciliation of RPS compliance adder
8 revenue and expense by month. The RPS compliance adder revenue is collected from
9 Energy Service customers during the period. These costs are based on actual revenues
10 and expenses for the period. The Company has estimated an over-collection of
11 (\$985,665). The primary reason for this estimated over-collection is the timing mismatch
12 between 2020 RPS revenue and 2019 RPS costs. The RPS expenses incurred in 2020
13 were to meet a portion of the 2019 RPS obligation. The 2020 RPS revenue is based on
14 the increased RPS obligation for 2020 as compared to 2019 and the estimated market
15 price of 2020 RPS RECs. With respect to this reconciliation, the estimated market prices
16 used to calculate the current 2020 RPS compliance adder were significantly higher than
17 the actual purchase costs incurred in 2020 to meet the balance of the 2019 RPS
18 obligation, resulting in the over-recovery. The Company intends to modify its
19 methodology of calculating the RPS compliance adder to reduce the occurrence of such a
20 variance in future reconciliations.

1 **Q. How is the Company treating the projected over-collection of RPS expense?**

2 A. Consistent with the previously-approved methodology, the Company has combined the
3 projected RPS expense over-collection with the projected under-collection of Energy
4 Service power supply costs in the calculation of the proposed Energy Service Adjustment
5 Factor.

6 **V. RECONCILIATION OF THE ENERGY SERVICE ADJUSTMENT FACTOR**

7 **Q. Please explain Schedule AMH/DBS-5.**

8 A. The calculation of the Energy Service Adjustment Factor charged to customers includes
9 the under-collection of Energy Service, the over-collection associated with the Energy
10 Service Adjustment Factor for the prior period, and the over-collection of RPS. The net
11 of these amounts is estimated to be an over-collection of (\$856,741) which, when divided
12 by estimated Energy Service forecasted kilowatt-hour sales, results in an estimated ESAF
13 of (\$0.00192) to be included in Energy Service rates effective August 1, 2020.

14 **VI. ENERGY SERVICE COST RECLASSIFICATION ADJUSTMENT FACTOR**
15 **(ESCRAF) RECONCILIATION**

16 **Q. Please describe the reconciliation of the administrative costs of providing Energy**
17 **Service.**

18 A. The Company must reconcile its administrative cost of providing Energy Service with its
19 Energy Service revenue associated with the collection of administrative costs, and the
20 excess or deficiency resulting from that reconciliation, including interest at prime, must
21 be reflected in the subsequent year's ESCRAF.

1 **Q. Is the Company presenting a reconciliation of administrative costs of providing**
2 **Energy Service with its Energy Service revenue associated with the collection of**
3 **administrative costs in this filing?**

4 A. Yes. The ESCRAF Reconciliation for the period August 2019 through July 2020 is
5 presented in Schedule AMH/DBS-6.

6 **Q. Please explain the ESCRAF reconciliation.**

7 A. The detail behind each month's ESCRAF administrative expense is shown on pages 2
8 through 4 of Schedule AMH/DBS-6. The calculation of the cash working capital impact
9 is presented on pages 5 through 8 of Schedule AMH/DBS-6.

10 **Q. Has the Company calculated proposed ESCRAF for the period beginning August 1,**
11 **2020?**

12 A. Yes. Schedule AMH/DBS-6, page 1, calculates the estimated ESCRAF of \$0.00041 per
13 kWh for the Small Customer Group and \$0.00089 per kWh for the Large Customer
14 Group for the period of August 1, 2020, through July 31, 2021. The proposed ESCRAF
15 would be combined with the Energy Service rates for billing.

16 **Q. Has the Company calculated the ESCRAF in the same manner as in the prior year's**
17 **filing?**

18 A. Yes. The Company has calculated the ESCRAF in the same manner as in the prior year's
19 filing and in accordance with the methodologies and allocations approved in the

1 Settlement Agreement in Docket No. DR 95-169, Granite State Electric Company Rate
2 Increase.

3 **VII. BILL IMPACTS**

4 **Q. Has the Company determined the impact of the Energy Service rate change on**
5 **customers' bills?**

6 A. Not at this time. As stated earlier, Liberty Utilities is not yet proposing new Energy
7 Service rates, thus the impact of the Energy Service rate change on customers' bills is not
8 known. The Company will propose new rates when it submits its rate filing on June 22,
9 2020. This filing only addresses the reconciliation portion of the rate calculation.

10 **VIII. CONCLUSION**

11 **Q. Does this conclude your testimony?**

12 A. Yes.

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Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
DE 20-053 Energy Service Reconciliation
Schedule AMH/DBS-3 Base ES Reconciliation
Page 1 of 3

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Base Energy Service Reconciliation
August 2019 - July 2020

	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]	Aug-19	\$ -	\$ 2,794,030	\$ 2,432,721	\$ (361,309)	\$ (361,309)	\$ (180,655)	5.25%	\$ (790)	\$ (790)
[2]	Sep-19	\$ (362,100)	\$ 2,477,100	\$ 2,173,684	\$ (303,415)	\$ (665,515)	\$ (513,807)	5.25%	\$ (2,248)	\$ (3,038)
[3]	Oct-19	\$ (667,763)	\$ 2,366,815	\$ 2,160,924	\$ (205,891)	\$ (873,654)	\$ (770,709)	5.00%	\$ (3,211)	\$ (6,250)
[4]	Nov-19	\$ (876,865)	\$ 2,577,931	\$ 2,574,838	\$ (3,093)	\$ (879,958)	\$ (878,412)	4.75%	\$ (3,477)	\$ (9,727)
[5]	Dec-19	\$ (883,435)	\$ 3,477,246	\$ 3,940,640	\$ 463,393	\$ (420,042)	\$ (651,738)	4.75%	\$ (2,580)	\$ (12,306)
[6]	Jan-20	\$ (422,622)	\$ 3,541,268	\$ 4,604,350	\$ 1,063,081	\$ 640,460	\$ 108,919	4.75%	\$ 431	\$ (11,875)
[7]	Feb-20	\$ 640,891	\$ 2,824,526	\$ 4,008,590	\$ 1,184,064	\$ 1,824,955	\$ 1,232,923	4.75%	\$ 4,880	\$ (6,995)
[8]	Mar-20	\$ 1,829,836	\$ 2,481,699	\$ 3,358,219	\$ 876,520	\$ 2,706,355	\$ 2,268,095	4.75%	\$ 8,978	\$ 1,983
[9]	Apr-20	\$ 2,715,333	\$ 2,171,616	\$ 2,267,594	\$ 95,978	\$ 2,811,312	\$ 2,763,322	3.25%	\$ 7,484	\$ 9,467
[10]*	May-20	\$ 2,818,796	\$ 2,483,170	\$ 1,920,149	\$ (563,020)	\$ 2,255,775	\$ 2,537,285	3.25%	\$ 6,872	\$ 16,339
[11]*	Jun-20	\$ 2,262,647	\$ 2,702,877	\$ 1,672,028	\$ (1,030,849)	\$ 1,231,798	\$ 1,747,222	3.25%	\$ 4,732	\$ 21,071
[12]*	Jul-20	\$ 1,236,530	\$ 3,291,414	\$ 2,465,313	\$ (826,101)	\$ 410,429	\$ 823,479	3.25%	\$ 2,230	\$ 23,301
			\$ 33,189,692	\$ 33,579,050						

Cumulative (Over)/Under Collection of Base Energy Service: \$ 412,659

- (a) Prior Month Column (e) + Prior Month Column (h)
- (b) Monthly Revenue calculated on AMH/DBS-3 P2
- (c) Monthly Expenses calculated on AMH/DBS-3 P3
- (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
DE 20-053 Energy Service Reconciliation
Schedule AMH/DBS-3 Base ES Reconciliation
Page 2 of 3

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Energy Service Revenue
August 2019 - July 2020

Month	Energy Service Revenue (a)	Renewable Portfolio Standard Revenue (b)	Energy Service Adjustment Revenue (c)	Energy Service Cost Reclass. Adjustment Factor (d)	Base Energy Service Revenue (e)
[1] Aug-19	\$ 2,738,608	\$ 238,476	\$ (363,686)	\$ 69,788	\$ 2,794,030
[2] Sep-19	\$ 2,435,157	\$ 188,609	\$ (287,638)	\$ 57,087	\$ 2,477,100
[3] Oct-19	\$ 2,330,944	\$ 161,400	\$ (246,142)	\$ 48,871	\$ 2,366,815
[4] Nov-19	\$ 2,540,306	\$ 165,666	\$ (252,648)	\$ 49,357	\$ 2,577,931
[5] Dec-19	\$ 3,427,846	\$ 210,624	\$ (321,212)	\$ 61,187	\$ 3,477,246
[6] Jan-20	\$ 3,496,149	\$ 244,494	\$ (359,524)	\$ 69,910	\$ 3,541,268
[7] Feb-20	\$ 2,842,950	\$ 277,883	\$ (321,265)	\$ 61,806	\$ 2,824,526
[8] Mar-20	\$ 2,500,271	\$ 267,537	\$ (309,304)	\$ 60,339	\$ 2,481,699
[9] Apr-20	\$ 2,187,061	\$ 246,567	\$ (285,060)	\$ 53,939	\$ 2,171,616
[10]* May-20	\$ 2,500,798	\$ 234,873	\$ (271,541)	\$ 54,296	\$ 2,483,170
[11]* Jun-20	\$ 2,721,930	\$ 260,083	\$ (300,686)	\$ 59,657	\$ 2,702,877
[12]* Jul-20	\$ 3,312,617	\$ 300,633	\$ (347,568)	\$ 68,137	\$ 3,291,414
Total	\$ 33,034,636	\$ 2,796,844	\$ (3,666,276)	\$ 714,376	\$ 33,189,692

(a) Per general ledger

(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) Column (a) - Column (b) - Column (c) - Column (d) - Column (e)

* Projection

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
DE 20-053 Energy Service Reconciliation
Schedule AMH/DBS-3 Base ES Reconciliation
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Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Energy Service Expense Calculation
August 2019 - July 2020

		<u>Energy Service</u>	<u>RPS</u>	<u>Base Energy</u>
		<u>Expense</u>	<u>Expense</u>	<u>Service Expense</u>
		<u>(a)</u>	<u>(b)</u>	<u>(c)</u>
[1]	Aug-19	\$ 2,432,834	\$ 113	\$ 2,432,721
[2]	Sep-19	\$ 2,173,684	\$ -	\$ 2,173,684
[3]	Oct-19	\$ 2,264,978	\$ 104,054	\$ 2,160,924
[4]	Nov-19	\$ 2,574,838	\$ -	\$ 2,574,838
[5]	Dec-19	\$ 4,016,308	\$ 75,668	\$ 3,940,640
[6]	Jan-20	\$ 4,833,845	\$ 229,495	\$ 4,604,350
[7]	Feb-20	\$ 4,036,590	\$ 28,000	\$ 4,008,590
[8]	Mar-20	\$ 3,358,219	\$ -	\$ 3,358,219
[9]	Apr-20	\$ 2,325,622	\$ 58,028	\$ 2,267,594
[10]*	May-20	\$ 2,052,773	\$ 132,624	\$ 1,920,149
[11]*	Jun-20	\$ 2,021,360	\$ 349,332	\$ 1,672,028
[12]*	Jul-20	\$ 2,465,313	\$ -	\$ 2,465,313
	Total	\$ 34,556,365	\$ 977,315	\$ 33,579,050

- (a) Per general ledger
- (b) Per general ledger
- (c) Column (a) - Column (b)
- * Projection

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
DE 20-053 Energy Service Reconciliation
Schedule AMH/DBS-4 RPS Reconciliation
Page 1 of 1

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Renewable Portfolio Standard Reconciliation
2019 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-19	\$ -	\$ 114,350	\$ 656,835	\$ 542,485	\$ 542,485	\$ 271,243	5.50%	\$ 1,243	\$ 1,243
[2] Aug-19	\$ 543,728	\$ 238,476	\$ 113	\$ (238,363)	\$ 305,365	\$ 424,547	5.25%	\$ 1,857	\$ 3,101
[3] Sep-19	\$ 307,223	\$ 188,609	\$ -	\$ (188,609)	\$ 118,613	\$ 212,918	5.25%	\$ 932	\$ 4,032
[4] Oct-19	\$ 119,545	\$ 161,400	\$ 104,054	\$ (57,346)	\$ 62,199	\$ 90,872	5.00%	\$ 379	\$ 4,411
[5] Nov-19	\$ 62,578	\$ 165,666	\$ -	\$ (165,666)	\$ (103,088)	\$ (20,255)	4.75%	\$ (80)	\$ 4,331
[6] Dec-19	\$ (103,168)	\$ 210,624	\$ 75,668	\$ (134,956)	\$ (238,125)	\$ (170,646)	4.75%	\$ (675)	\$ 3,655
[7] Jan-20	\$ (238,800)	\$ 244,494	\$ 229,495	\$ (14,999)	\$ (253,799)	\$ (246,299)	4.75%	\$ (975)	\$ 2,680
[8] Feb-20	\$ (254,774)	\$ 277,883	\$ 28,000	\$ (249,883)	\$ (504,656)	\$ (379,715)	4.75%	\$ (1,503)	\$ 1,177
[9] Mar-20	\$ (506,159)	\$ 267,537	\$ -	\$ (267,537)	\$ (773,696)	\$ (639,928)	4.75%	\$ (2,533)	\$ (1,356)
[10] Apr-20	\$ (776,229)	\$ 246,567	\$ 58,028	\$ (188,538)	\$ (964,767)	\$ (870,498)	3.25%	\$ (2,358)	\$ (3,714)
[11]* May-20	\$ (967,125)	\$ 234,873	\$ 132,624	\$ (102,249)	\$ (1,069,374)	\$ (1,018,250)	3.25%	\$ (2,758)	\$ (6,471)
[12]* Jun-20	\$ (1,072,132)	\$ 260,083	\$ 349,332	\$ 89,249	\$ (982,883)	\$ (1,027,507)	3.25%	\$ (2,783)	\$ (9,254)

\$ 2,610,561 \$ 1,634,150

Cumulative (Over)/Under Collection of RPS Compliance Costs \$ (985,665)

- (a) Prior Month Column (e) + Prior Month Column (h)
- (b) Actual kWh sales multiplied by the RPS adder
- (c) Actual Monthly REC expenses
- (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
DE 20-053 Energy Service Reconciliation
Schedule AMH/DBS-5 ES Adjustment Factor Reconciliation
Page 1 of 2

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Calculation of Energy Service Adjustment Factor
Effective August 1, 2020

[1] Base Energy Service (Over)/Under Collection	\$	412,659
[2] Energy Service Adjustment Factor (Over)/Under Collection	\$	(283,735)
[3] RPS (Over)/Under Collection	\$	(985,665)
[4] Total (Over)/Under Collection	\$	(856,741)
[5] Estimated Energy Service kWh Deliveries		445,195,378
[6] Energy Service Adjustment Factor per kWh	\$	(0.00192)

- [1] Schedule AMH/DBS-3, Page 1
- [2] Schedule AMH/DBS-5 Page 2
- [3] Schedule AMH/DBS-4
- [4] Sum of Lines 1 - 3
- [5] Per Company forecast August 2019 - July 2020
- [6] Line (4) ÷ Line (5), truncated after 5 decimal places

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
DE 20-053 Energy Service Reconciliation
Schedule AMH/DBS-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 2018 - July 2019

	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-19	\$ (3,851,755)	\$ (363,686)	\$ (3,488,068)	\$ (3,669,912)	5.25%	\$ (16,056)	\$ (16,056)
[2]	Sep-19	\$ (3,504,124)	\$ (287,638)	\$ (3,216,486)	\$ (3,360,305)	5.25%	\$ (14,701)	\$ (30,757)
[3]	Oct-19	\$ (3,231,188)	\$ (246,142)	\$ (2,985,045)	\$ (3,108,117)	5.00%	\$ (12,950)	\$ (43,708)
[4]	Nov-19	\$ (2,997,996)	\$ (252,648)	\$ (2,745,347)	\$ (2,871,672)	4.75%	\$ (11,367)	\$ (55,075)
[5]	Dec-19	\$ (2,756,715)	\$ (321,212)	\$ (2,435,503)	\$ (2,596,109)	4.75%	\$ (10,276)	\$ (65,351)
[6]	Jan-20	\$ (2,445,779)	\$ (359,524)	\$ (2,086,255)	\$ (2,266,017)	4.75%	\$ (8,970)	\$ (74,321)
[7]	Feb-20	\$ (2,095,224)	\$ (321,265)	\$ (1,773,959)	\$ (1,934,592)	4.75%	\$ (7,658)	\$ (81,978)
[8]	Mar-20	\$ (1,781,617)	\$ (309,304)	\$ (1,472,313)	\$ (1,626,965)	4.75%	\$ (6,440)	\$ (88,418)
[9]	Apr-20	\$ (1,478,753)	\$ (285,060)	\$ (1,193,693)	\$ (1,336,223)	3.25%	\$ (3,619)	\$ (92,037)
[10]*	May-20	\$ (1,197,312)	\$ (271,541)	\$ (925,770)	\$ (1,061,541)	3.25%	\$ (2,875)	\$ (94,912)
[11]*	Jun-20	\$ (928,645)	\$ (300,686)	\$ (627,959)	\$ (778,302)	3.25%	\$ (2,108)	\$ (97,020)
[12]*	Jul-20	\$ (630,067)	\$ (347,568)	\$ (282,499)	\$ (456,283)	3.25%	\$ (1,236)	\$ (98,256)

\$ (3,666,276)

Total (Over)/Under Collection: \$ (283,735)

- (a) Prior month Column (c) + Prior month Column (f)
- (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
DE 20-053 Energy Service Reconciliation
Schedule AMH/DBS-6 ES Cost Reclassification Adj Factor
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Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Energy Service Cost Reclassification Adjustment Factor (ESCRAF)
Effective August 1, 2020

	<u>Total</u>	<u>Residential and Small C&I</u>	<u>Medium and Large C&I</u>
[1] Total Forecast of 2020 Costs	\$ 282,175	\$ 163,197	\$ 118,978
[2] Overcollection Related to ESCRAF	\$ (45,825)	\$ (26,503)	\$ (19,322)
[3] Net Estimated Commodity Related Costs	\$ 236,349	\$ 136,694	\$ 99,656
[4] Estimated Forecast Energy Service kWh Deliveries	<u>445,195,378</u>	<u>333,360,874</u>	<u>111,834,504</u>
[5] 2018 ESCRAF per kWh	\$ 0.00053	\$ 0.00041	\$ 0.00089

(1) Forecast of costs using previous period; Schedule AMH/DBS-6, Page 3, Line 4

(2) Schedule AMH/DBS-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
DE 20-053 Energy Service Reconciliation
Schedule AMH/DBS-6 ES Cost Reclassification Adj Factor
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Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Energy Service Cost Reclassification Adjustment Factor (ESCRAF) Reconciliation
August 2019 - July 2020

	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-19	\$ 369,071	\$ 69,788	\$ 23,417	\$ (46,371)	\$ 322,700	\$ 345,886	5.25%	\$ 1,513	\$ 1,513
[2]	Sep-19	\$ 324,213	\$ 57,087	\$ 19,343	\$ (37,744)	\$ 286,470	\$ 305,341	5.25%	\$ 1,336	\$ 2,849
[3]	Oct-19	\$ 287,805	\$ 48,871	\$ 21,743	\$ (27,129)	\$ 260,677	\$ 274,241	5.00%	\$ 1,143	\$ 3,992
[4]	Nov-19	\$ 261,820	\$ 49,357	\$ 25,706	\$ (23,652)	\$ 238,168	\$ 249,994	4.75%	\$ 990	\$ 4,981
[5]	Dec-19	\$ 239,157	\$ 61,187	\$ 32,757	\$ (28,430)	\$ 210,727	\$ 224,942	4.75%	\$ 890	\$ 5,872
[6]	Jan-20	\$ 211,618	\$ 69,910	\$ 34,315	\$ (35,595)	\$ 176,023	\$ 193,820	4.75%	\$ 767	\$ 6,639
[7]	Feb-20	\$ 176,790	\$ 61,806	\$ 26,827	\$ (34,980)	\$ 141,810	\$ 159,300	4.75%	\$ 631	\$ 7,270
[8]	Mar-20	\$ 142,441	\$ 60,339	\$ 23,710	\$ (36,629)	\$ 105,812	\$ 124,127	4.75%	\$ 491	\$ 7,761
[9]	Apr-20	\$ 106,304	\$ 53,939	\$ 20,179	\$ (33,760)	\$ 72,544	\$ 89,424	3.25%	\$ 242	\$ 8,003
[10]*	May-20	\$ 72,786	\$ 54,296	\$ 21,111	\$ (33,186)	\$ 39,600	\$ 56,193	3.25%	\$ 152	\$ 8,155
[11]*	Jun-20	\$ 39,752	\$ 59,657	\$ 21,111	\$ (38,546)	\$ 1,206	\$ 20,479	3.25%	\$ 55	\$ 8,211
[12]*	Jul-20	\$ 1,262	\$ 68,137	\$ 21,111	\$ (47,027)	\$ (45,765)	\$ (22,252)	3.25%	\$ (60)	\$ 8,150
			\$ 714,376	\$ 291,329						

Cumulative (Over)/Under Collection of Energy Service Cost Reclassification Adjustment Provision: \$ (45,825)

- (a1) Estimated July 2019 ending balance in DE 19-059, Bates 131
- (a2 - a12) Prior Month Column (e) + Prior Month Column (h)
- (b) Actual kWh sales multiplied by approved ESCRAF
- (c) AMH/DBS-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
DE 20-053 Energy Service Reconciliation
Schedule AMH/DBS-6 ES Cost Reclassification Adj Factor
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Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Energy Service Cost Reclassification Adjustment Factor (ESCRAF)
Expense Summary August 2019 - July 2020

	<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	\$20,498	\$10,249	\$10,249
<u>Direct Retail:</u>			
[2] Bad Debt Expense	<u>\$142,984</u>	<u>\$83,573</u>	<u>\$59,411</u>
<u>Cash Working Capital:</u>			
[3] Working Capital Impact	<u>\$118,693</u>	<u>\$69,375</u>	<u>\$49,318</u>
[4] Total Estimated Commodity Related Costs	\$282,174	\$163,197	\$118,978

- (1) Schedule AMH/DBS-6 Page 4 Column (a), allocated evenly
- (2) Bad debt calculation August 2018 - July 2019. Allocated to customer group based on method agreed to in the settlement in Docket DE 05-126.
- (3) Schedule AMH/DBS-6 Page 4 Column (c), 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
DE 20-053 Energy Service Reconciliation
Schedule AMH/DBS-6 ES Cost Reclassification Adj Factor
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Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Energy Service Cost Reclassification Adjustment Factor Expenses
August 2019 - July 2020

		Payroll and Other Admin Expenses (a)	Bad Debt Expense (b)	Cash Working Capital Expense (c)	Total Expense (d)
[1]	Aug-19	\$1,163	\$11,601	\$10,654	\$23,417
[2]	Sep-19	\$0	\$8,689	\$10,654	\$19,343
[3]	Oct-19	\$1,512	\$9,577	\$10,654	\$21,743
[4]	Nov-19	\$4,012	\$11,040	\$10,654	\$25,706
[5]	Dec-19	\$4,710	\$17,394	\$10,654	\$32,757
[6]	Jan-20	\$2,616	\$21,045	\$10,654	\$34,315
[7]	Feb-20	\$465	\$15,707	\$10,654	\$26,827
[8]	Mar-20	\$119	\$12,937	\$10,654	\$23,710
[9]	Apr-20	\$776	\$8,749	\$10,654	\$20,179
[10]*	May-20	\$1,708	\$8,749	\$10,654	\$21,111
[11]*	Jun-20	\$1,708	\$8,749	\$10,654	\$21,111
[12]*	Jul-20	\$1,708	\$8,749	\$10,654	\$21,111
	Total	\$20,498	\$142,984	\$127,848	\$291,329

(a) Per general ledger

(b) Per general ledger

(c) Per general ledger

(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
DE 20-053 Energy Service Reconciliation
Schedule AMH/DBS-6 ES Cost Reclassification Adj Factor
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Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Energy Service Cost Reclassification Adjustment Factor Expenses
Working Capital Summary

	<u>Days of Cost</u> (a)	<u>Annual Percent</u> (b)	<u>Customer Payment Lag %</u> (c)	<u>CWC %</u> (d)	<u>Expense</u> (e)	<u>Working Capital Requirement</u> (f)
[1] 2019 Purchase Power Costs	(37.241)	-10.20%	16.41%	6.21%	\$ 39,618,867	\$ 2,460,332
[2] Renewable Portfolio Standard	(226.609)	-62.08%	16.41%	-45.67%	\$ 2,610,561	\$ (1,192,243)
[3] Working Capital Requirement						\$ 1,268,088
[4] Capital Structure Post-tax						7.60%
[5] Working Capital Impact						\$ 96,375
[6] Capital Structure Pre-tax						9.36%
[7] Working Capital Impact						\$ 118,693

Columns:

- [1](a) Schedule AMH/DBS-6 Page 6
- (b) Column (a) ÷ 365
- (c) Schedule AMH/DBS-6 Page 8
- (d) Column (b) + Column (c)
- (e) Schedule AMH/DBS-6 Page 6
- [2](a) Schedule AMH/DBS-6 Page 7
- (b) Column (a) ÷ 365
- (c) Schedule AMH/DBS-6 Page 8
- (d) Column (b) + Column (c)
- (e) Schedule AMH/BS-6 Page 7
- (f) Column (d) x Column (e)

Lines:

- [3] Line 1(f) + Line 2(f)
- [4] Settlement Agreement Docket No. DE 19-064
- [5] Line (3) x Line (4)
- [6] Settlement Agreement Docket No. DE 19-064
- [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			Payment Date (g)	Elapsed Days (h)	% of Total (i)	Weighted Days (j)
			Period (d)	Invoice Date (e)	Due Date (f)				
January 2019	Current Charge for January 2019	\$ 4,097,462.62	1/16/2019	2/10/2019	2/20/2019	2/20/2019	35	10.34%	3.62
January 2019	Supplier Reallocation for September 2018	\$ (7,493.49)	1/16/2019	2/19/2019	3/1/2019	3/20/2019	63	-0.02%	(0.01)
January 2019	Current Charge for January 2019	\$ 1,249,961.12	1/16/2019	2/15/2019	2/28/2019	2/28/2019	43	3.15%	1.36
February 2019	Current Charge for February 2019	\$ 3,976,978.53	2/15/2019	3/19/2019	3/29/2019	3/29/2019	42	10.04%	4.22
February 2019	Supplier Reallocation for October 2018	\$ (80,195.66)	2/15/2019	3/11/2019	3/21/2019	3/20/2019	33	-0.20%	(0.07)
February 2019	Current Charge for February 2019	\$ 1,254,038.02	2/15/2019	3/19/2019	3/29/2019	3/29/2019	42	3.17%	1.33
February 2019	Supplier Reallocation for October 2018	\$ 18,119.51	2/15/2019	3/8/2019	3/20/2019	3/19/2019	32	0.05%	0.01
March 2019	Current Charge for March 2019	\$ 2,845,754.03	3/15/2019	4/10/2019	4/22/2019	4/22/2019	38	7.18%	2.73
March 2019	Supplier Reallocation for November 2018	\$ (29,285.71)	3/15/2019	4/12/2019	4/22/2019	4/22/2019	38	-0.07%	(0.03)
March 2019	Current Charge for March 2019	\$ 1,093,397.36	3/15/2019	4/10/2019	4/22/2019	4/22/2019	38	2.76%	1.05
March 2019	Supplier Reallocation for November 2018	\$ 25,021.48	3/15/2019	4/15/2019	4/22/2019	4/18/2019	34	0.06%	0.02
April 2019	Current Charge for April 2019	\$ 1,954,674.90	4/16/2019	5/14/2019	5/20/2019	5/20/2019	34	4.93%	1.68
April 2019	Supplier Reallocation for December 2018	\$ (9,876.78)	4/16/2019	5/14/2019	5/24/2019	5/20/2019	34	-0.02%	(0.01)
April 2019	Current Charge for April 2019	\$ 1,570,404.10	4/16/2019	5/22/2019	6/6/2019	6/6/2019	51	3.96%	2.02
April 2019	Current Charge for April 2019	\$ 706,494.18	4/16/2019	5/14/2019	5/20/2019	5/20/2019	34	1.78%	0.61
May 2019	Current Charge for May 2019	\$ 1,718,257.26	5/16/2019	6/11/2019	6/20/2019	6/20/2019	35	4.34%	1.52
May 2019	Supplier Reallocation for January 2019	\$ (42,734.41)	5/16/2019	6/17/2019	6/27/2019	6/20/2019	35	-0.11%	(0.04)
May 2019	Current Charge for May 2019	\$ 655,061.26	5/16/2019	6/11/2019	6/20/2019	6/20/2019	35	1.65%	0.58
May 2019	Supplier Reallocation for December 2018	\$ (7,278.94)	5/16/2019	6/17/2019	6/27/2019	7/9/2019	54	-0.02%	(0.01)
May 2019	Supplier Reallocation for January 2019	\$ (24,415.80)	5/16/2019	6/17/2019	6/27/2019	7/9/2019	54	-0.06%	(0.03)
June 2019	Current Charge for June 2019	\$ 588,358.84	6/15/2019	7/9/2019	7/20/2019	7/19/2019	34	1.49%	0.50
June 2019	Current Charge for June 2019	\$ 1,671,551.00	6/15/2019	7/10/2019	7/22/2019	7/22/2019	37	4.22%	1.56
July 2019	Current Charge for July 2019	\$ 766,124.03	7/16/2019	8/6/2019	8/20/2019	8/20/2019	35	1.93%	0.68
July 2019	Supplier Reallocation for February 2019	\$ (30,514.93)	7/16/2019	8/12/2019	8/22/2019	8/20/2019	35	-0.08%	(0.03)
July 2019	Supplier Reallocation for February 2019	\$ (163,476.14)	7/16/2019	8/12/2019	8/22/2019	8/20/2019	35	-0.41%	(0.14)
July 2019	Current Charge for July 2019	\$ 2,404,899.32	7/16/2019	8/9/2019	8/20/2019	8/20/2019	35	6.07%	2.12
July 2019	Supplier Reallocation for March 2019	\$ 176,383.28	7/16/2019	8/12/2019	8/20/2019	8/20/2019	35	0.45%	0.16
July 2019	Supplier Reallocation for March 2019	\$ (93,049.36)	7/16/2019	8/15/2019	8/25/2019	8/20/2019	35	-0.23%	(0.08)
August 2019	Current Charge for August 2019	\$ 606,775.81	8/16/2019	9/11/2019	9/20/2019	9/20/2019	35	1.53%	0.54
August 2019	Supplier Reallocation for April 2019	\$ 2,282.09	8/16/2019	9/11/2019	9/20/2019	9/20/2019	35	0.01%	0.00
August 2019	Supplier Reallocation for April 2019	\$ (10,158.65)	8/16/2019	9/13/2019	9/23/2019	9/20/2019	35	-0.03%	(0.01)
August 2019	Current Charge for August 2019	\$ 1,913,505.44	8/16/2019	9/10/2019	9/20/2019	9/20/2019	35	4.83%	1.69
August 2019	Broker Charge	\$ 259.38	8/16/2019	7/1/2019	7/31/2019	7/31/2019	(16)	0.00%	(0.00)
August 2019	Broker Charge	\$ 259.38	8/16/2019	8/1/2019	8/31/2019	8/31/2019	15	0.00%	0.00
August 2019	Broker Charge	\$ 259.38	8/16/2019	9/1/2019	9/30/2019	9/30/2019	45	0.00%	0.00
September 2019	Current Charge for September 2019	\$ 501,978.61	9/15/2019	10/10/2019	10/21/2019	10/21/2019	36	1.27%	0.46
September 2019	Supplier Reallocation for May 2019	\$ 6,498.40	9/15/2019	10/10/2019	10/21/2019	10/21/2019	36	0.02%	0.01
September 2019	Supplier Reallocation for May 2019	\$ 5,926.38	9/15/2019	10/7/2019	10/20/2019	10/18/2019	33	0.01%	0.00
September 2019	Current Charge for September 2019	\$ 1,648,944.81	9/15/2019	10/10/2019	10/21/2019	10/21/2019	36	4.16%	1.50
September 2019	Broker Charge	\$ 346.88	9/15/2019	10/1/2019	10/30/2019	10/30/2019	45	0.00%	0.00
October 2019	Current Charge for October 2019	\$ 531,543.91	10/16/2019	11/7/2019	11/20/2019	11/20/2019	35	1.34%	0.47
October 2019	Supplier Reallocation for June 2019	\$ 98,636.08	10/16/2019	11/8/2019	11/20/2019	11/20/2019	35	0.25%	0.09
October 2019	Supplier Reallocation for June 2019	\$ (13,583.69)	10/16/2019	11/13/2019	11/23/2019	11/20/2019	35	-0.03%	(0.01)
October 2019	Current Charge for October 2019	\$ 1,600,995.63	10/16/2019	11/7/2019	11/20/2019	11/20/2019	35	4.04%	1.41
October 2019	Broker Charge	\$ 346.88	10/16/2019	11/1/2019	11/25/2019	11/25/2019	40	0.00%	0.00
November 2019	Current Charge for November 2019	\$ 594,816.03	11/15/2019	12/10/2019	12/20/2019	12/20/2019	35	1.50%	0.53
November 2019	Supplier Reallocation for July 2019	\$ 197,491.57	11/15/2019	12/10/2019	12/20/2019	12/20/2019	35	0.50%	0.17
November 2019	Supplier Reallocation for July 2019	\$ (26,269.95)	11/15/2019	12/11/2019	12/21/2019	12/20/2019	35	-0.07%	(0.02)
November 2019	Current Charge for November 2019	\$ 1,890,521.09	11/15/2019	12/10/2019	12/20/2019	12/20/2019	35	4.77%	1.67
November 2019	Broker Charge	\$ 333.00	11/15/2019	12/1/2019	12/30/2019	12/30/2019	45	0.00%	0.00
December 2019	Current Charge for December 2019	\$ 2,852,722.00	12/16/2019	1/10/2020	1/21/2020	1/21/2020	36	7.20%	2.59
December 2019	Supplier Reallocation for August 2019	\$ 11,204.14	12/16/2019	1/10/2020	1/21/2020	1/21/2020	36	0.03%	0.01
December 2019	Current Charge for December 2019	\$ 918,279.37	12/16/2019	1/10/2020	1/21/2020	1/21/2020	36	2.32%	0.83
December 2019	Broker Charge	\$ 333.00	12/16/2019	1/1/2020	1/30/2020	1/30/2020	45	0.00%	0.00
[1] Total		\$ 39,618,866.59					Days		37.24

Columns:

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

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
DE 20-053 Energy Service Reconciliation
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Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
RPS Obligation Program Year 2019

Invoice <u>Month</u> (a)	Obligation <u>Amount</u> (b)	Mid-Point of Service <u>Period</u> (c)	<u>Due Date</u> (d)	Elapsed <u>(Days)</u> (e)	% of <u>Total</u> (f)	Weighted <u>Days</u> (g)
Jul-19	\$ 114,350	7/16/2019	3/31/2020	259	4.38%	11.34
Aug-19	\$ 238,476	8/16/2019	3/31/2020	228	9.14%	20.83
Sep-19	\$ 188,609	9/15/2019	3/31/2020	198	7.22%	14.31
Oct-19	\$ 161,400	10/16/2019	6/30/2020	258	6.18%	15.95
Nov-19	\$ 165,666	11/15/2019	6/30/2020	228	6.35%	14.47
Dec-19	\$ 210,624	12/16/2019	6/30/2020	197	8.07%	15.89
Jan-20	\$ 244,494	1/16/2020	9/30/2020	258	9.37%	24.16
Feb-20	\$ 277,883	2/14/2020	9/30/2020	229	10.64%	24.38
Mar-20	\$ 267,537	3/16/2020	9/30/2020	198	10.25%	20.29
Apr-20	\$ 246,567	4/15/2020	12/31/2020	260	9.44%	24.56
May-20	\$ 234,873	5/16/2020	12/31/2020	229	9.00%	20.60
Jun-20	\$ 260,083	6/15/2020	12/31/2020	199	9.96%	19.83
[1] Total	\$ 2,610,561				[2] Days	226.61

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
DE 20-053 Energy Service Reconciliation
Schedule AMH/DBS-6 ES Cost Reclassification Adj Factor
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Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Revenue Lead/Lag Applied to Energy Service

<u>Service Period</u>		Monthly Customer Accts.Receivable (a)	Monthly Sales (b)	Days In Month (c)	Average Daily Revenues (d)
1/1/2019	1/31/2019	\$ 12,580,711	\$ 9,515,464	31	\$ 306,950
2/1/2019	2/28/2019	\$ 13,005,398	\$ 9,380,825	28	\$ 335,029
3/1/2019	3/31/2019	\$ 12,657,160	\$ 9,096,737	31	\$ 293,443
4/1/2019	4/30/2019	\$ 10,864,616	\$ 7,854,039	30	\$ 261,801
5/1/2019	5/31/2019	\$ 10,192,848	\$ 7,335,491	31	\$ 236,629
6/1/2019	6/30/2019	\$ 10,479,746	\$ 7,154,520	30	\$ 238,484
7/1/2019	7/31/2019	\$ 11,446,569	\$ 8,649,182	31	\$ 279,006
8/1/2019	8/31/2019	\$ 12,769,661	\$ 9,363,308	31	\$ 302,042
9/1/2019	9/30/2019	\$ 11,346,141	\$ 7,648,644	30	\$ 254,955
10/1/2019	10/31/2019	\$ 9,468,822	\$ 6,807,193	31	\$ 219,587
11/1/2019	11/30/2019	\$ 10,262,652	\$ 6,905,386	30	\$ 230,180
12/1/2019	12/31/2019	\$ 10,781,310	\$ 8,319,085	31	\$ 268,358
Average		\$ 11,321,303			\$ 268,872

[1] Service Lag	15.21
[2] Collection Lag	42.11
[3] Billing Lag	<u>2.59</u>
[4] Total Average Days Lag	59.90
[5] Customer Payment Lag-annual percent	16.41%

Columns:

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

Lines:

- [1] Settlement Agreement Docket No. DE 19-064
- [2] (a) / (d)
- [3] Settlement Agreement Docket No. DE 19-064
- [4] Sum of Lines 1-3
- [5] Line (4) ÷ 365