

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty

DE 22-014

Vegetation Management Program

Calendar Year 2021 Reconciliation and Rate Adjustment

State of New Hampshire Public Utilities Commission – Record Requests

Date Request Received: 4/19/22
Request No. RR 1-3

Date of Response: 4/21/22
Respondent: Heather Green

REQUEST:

(Exhibit 4): Please provide Attachment HMT/AMH-1 in live Excel format.

RESPONSE:

As discussed during the April 19, 2022, hearing, the Company is providing both a “locked” and “unlocked” version of Attachment HMT/AMH-1 in live Excel format. Please see Attachment RR 1-3.1.xlsx for the unlocked version and Attachment RR 1-3.2.xlsx for the locked version.

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty
VMP O&M Adjustment Factor
Summary of Annual Spending

	Actual FY <u>2008</u> (a)	Actual FY <u>2009</u> (b)	Actual FY <u>2010</u> (c)	Actual FY <u>2011</u> (d)	Actual FY <u>2012</u> (e)	Actual FY <u>2013</u> (f)	Actual CYS <u>2013</u> (f)	Actual CY <u>2014</u> (g)	Actual CY <u>2015</u> (h)	Actual CY <u>2016</u> (i)	Actual CY <u>2017</u> (j)	Actual CY <u>2018</u> (k)	Actual CY <u>2019</u> (l)	Actual CY <u>2020</u> (m)	Actual CY <u>2021</u> (n)
Incremental VMP and REP O&M Spend															
1 Actual VMP	\$2,169,258	\$1,477,916	\$2,556,530	\$1,245,985	\$1,467,486	\$1,560,973	\$1,055,861	\$1,395,166	\$1,994,184	\$1,633,896	\$2,495,406	\$2,422,443	\$2,096,528	\$2,461,057	\$1,870,813
2 Annual Program Budget	\$1,950,000	\$1,473,832	\$2,556,530	\$1,552,000	\$1,556,000	\$1,721,585	\$1,238,200	\$1,521,200	\$1,860,397	\$1,948,000	\$2,281,803	\$2,157,086	\$2,307,000	\$2,200,000	\$2,420,000
3 Amount Subject to Recovery	\$1,950,000	\$1,473,832	\$2,556,530	\$1,245,985	\$1,467,486	\$1,560,973	\$1,055,861	\$1,395,166	\$1,994,184	\$1,633,896	\$2,495,406	\$2,422,443	\$2,096,528	\$2,420,000	(\$549,187)
4 VMP and REP Base Spending Level	\$1,950,000	\$1,360,000	\$1,360,000	\$1,360,000	\$1,360,000	\$1,360,000	\$1,020,000	\$1,360,000	\$1,360,000	\$1,360,000	\$1,360,000	\$1,500,000	\$1,500,000	\$1,500,000	\$2,420,000
5 Total Revenue Requirement	\$0	\$113,832	\$1,196,530	(\$114,015)	\$107,486	\$200,973	\$35,861	\$35,166	\$634,184	\$273,896	\$995,406	\$922,443	\$596,528	\$570,000	\$0
6 Less Reimbursements from Consolidated	\$0	\$0	(\$148,760)	(\$644,098)	(\$402,693)	(\$253,054)	(\$311,701)	(\$245,751)	(\$288,000)	(\$350,000)	(\$442,992)	(\$478,142)	(\$495,381)	\$0	\$0
7 Total Incremental Revenue Requirement	\$0	\$113,832	\$1,047,770	(\$758,113)	(\$295,207)	(\$52,081)	(\$275,840)	(\$210,585)	\$346,184	(\$76,104)	\$552,414	\$444,301	\$101,147	\$570,000	\$0
8 Total O&M Recovery	\$1,950,000	\$1,473,832	\$2,407,770	\$601,887	\$1,064,793	\$1,307,919	\$744,160	\$1,149,415	\$1,706,184	\$1,283,896	\$2,052,414	\$1,944,301	\$1,601,147	\$2,420,000	(\$549,187)

Notes:

Line 1 2021 Actual VMP
Line 4 VMP base spending level per Docket No. DE 19-064
Line 5 Line 4 minus line 2
Line 6 Reflects reimbursements related to vegetation management expenses from Consolidated Communications
Line 7 Line 5 plus Line 6
Line 8 Line 3 plus Line 6

**Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty
Reconciliation of CY 2021 O&M Expense**

		Beginning Balance With Interest	Revenue	Ending Balance	Balance Subject to Interest	Effective Interest Rate	Interest	Cumulative Interest
		(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	May-21	\$561,655	\$23,125	\$538,531	\$550,093	3.25%	\$1,468	\$1,468
2	Jun-21	\$539,999	\$49,427	\$490,572	\$515,285	3.25%	\$1,375	\$2,843
3	Jul-21	\$491,947	\$55,037	\$436,909	\$464,428	3.25%	\$1,239	\$4,083
4	Aug-21	\$438,149	\$53,429	\$384,720	\$411,435	3.25%	\$1,098	\$5,181
5	Sep-21	\$385,818	\$54,031	\$331,788	\$358,803	3.25%	\$958	\$6,138
6	Oct-21	\$332,745	\$43,186	\$289,560	\$311,152	3.25%	\$830	\$6,969
7	Nov-21	\$290,390	\$41,051	\$249,339	\$269,864	3.25%	\$720	\$7,689
8	Dec-21	\$250,059	\$47,343	\$202,715	\$226,387	3.25%	\$604	\$8,293
9	Jan-22	\$203,320	\$50,099	\$153,221	\$178,270	3.25%	\$476	\$8,769
10	Feb-22	\$153,697	\$49,439	\$104,258	\$128,977	3.25%	\$344	\$9,113
* 11	Mar-22	\$104,602	\$48,340	\$56,262	\$80,432	3.25%	\$215	\$9,328
* 12	Apr-22	\$56,477	\$44,107	\$12,370	\$34,424	3.25%	\$92	\$9,420
13		(Over)/Under Recovery:		\$12,462				

(a) Line 1: Per Company Records

(a) Lines 2 - 12: Prior month Column (c) + Prior month Column (f)

(b) Revenues per the Company's Records

(c) Column (a) - Column (b)

(d) Average of Column (a) and Column (c)

(e) Interest rate on customer deposits

(f) $\text{Column (d)} \times [(1 + \text{Column (e)}) ^ { (1 \div 12) } - 1]$

(g) Prior month Column (g) + Current month Column (f)

* Estimate

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty
Calculation of Vegetation Management Plan Adjustment Factor
Rates Effective May 1, 2022

(1)	CY 2021 O&M Expense Above Base O&M Expense	\$0
(2)	Final Balance of Reconciliation Calendar Year Incremental O&M (Over)/Under Collection	<u>\$12,462</u>
(3)	Vegetation Management Plan Expense	\$12,462
(4)	Estimated kWh deliveries May 1, 2022 - April 30, 2023	917,255,198
(5)	Vegetation Management Plan Adjustment Factor	\$0.00001

- (1) Schedule DBS-AMH-1, Page 2, Line 7
- (2) Schedule DBS-AMH-3, Page 1, Line 15
- (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
VMP Rate Presentation
Rates Effective May 1, 2022

Rate Class	Distribution Rate Component	Current Rates	REP/VMP Adjustment Factor	May 1, 2022 Rates
D	Customer Charge	\$14.74		\$14.74
	All kWh	\$0.06038	\$0.00001	\$0.06039
	16 Hour Off Peak kWh	\$0.05213	\$0.00001	\$0.05214
	Farm kWh	\$0.05699	\$0.00001	\$0.05700
	D-6 kWh	\$0.05310	\$0.00001	\$0.05311
D-10	Customer Charge	\$14.74		\$14.74
	On Peak kWh	\$0.12809	\$0.00001	\$0.12810
	Off Peak kWh	\$0.00172	\$0.00001	\$0.00173
D-11	Customer Charge	\$14.74		\$14.74
	Off Peak	\$0.04441	\$0.00001	\$0.04442
	Mid Peak	\$0.06657	\$0.00001	\$0.06658
	Critical Peak	\$0.09478	\$0.00001	\$0.09479
EV	Customer Charge	\$11.35		\$11.35
	Off Peak	\$0.04441	\$0.00001	\$0.04442
	Mid Peak	\$0.06657	\$0.00001	\$0.06658
	Critical Peak	\$0.09478	\$0.00001	\$0.09479
G-1	Customer Charge	\$444.70		\$444.70
	Demand Charge	\$9.43		\$9.43
	On Peak kWh	\$0.00603	\$0.00001	\$0.00604
	Off Peak kWh	\$0.00178	\$0.00001	\$0.00179
	Credit for High Voltage Delivery > 2.4 kv	(\$0.48)		(\$0.48)
G-2	Customer Charge	\$74.11		\$74.11
	Demand Charge	\$9.48		\$9.48
	All kWh	\$0.00239	\$0.00001	\$0.00240
	Credit for High Voltage Delivery > 2.4 kv	(\$0.48)		(\$0.48)
G-3	Customer Charge	\$17.03000		\$17.03000
	All kWh	\$0.05398	\$0.00001	\$0.05399

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty

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Attachment HMT/AMH-1

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Rate Class	Distribution Rate Component	REP/VMP		
		Current Rates	Adjustment Factor	May 1, 2022 Rates
M	Luminaire Charge Description			
	HPS 4,000	\$8.72		\$8.72
	HPS 9,600	\$10.08		\$10.08
	HPS 27,500	\$16.73		\$16.73
	HPS 50,000	\$20.81		\$20.81
	HPS 9,600 (Post Top)	\$11.83		\$11.83
	HPS 27,500 Flood	\$16.91		\$16.91
	HPS 50,000 Flood	\$22.58		\$22.58
	Incandescent 1,000	\$11.19		\$11.19
	Mercury Vapor 4,000	\$7.74		\$7.74
	Mercury Vapor 8,000	\$8.69		\$8.69
	Mercury Vapor 22,000	\$15.54		\$15.54
	Mercury Vapor 63,000	\$26.26		\$26.26
	Mercury Vapor 22,000 Flood	\$17.78		\$17.78
	Mercury Vapor 63,000 Flood	\$34.44		\$34.44
LED-1	LED-1 Fixtures			
	30 Watt Pole Top	\$5.66		\$5.66
	50 Watt Pole Top	\$5.90		\$5.90
	130 Watt Pole Top	\$9.10		\$9.10
	190 Watt Pole Top	\$17.44		\$17.44
	30 Watt URD	\$13.18		\$13.18
	90 Watt Flood	\$8.96		\$8.96
	130 Watt Flood	\$10.31		\$10.31
	30 Watt Caretaker	\$5.07		\$5.07
	Rates M, LED-1 & LED-2 Pole Accessory Charge			
	Pole -Wood	\$9.87		\$9.87
	Fiberglass - Direct Embedded	\$10.28		\$10.28
	Fiberglass w/Foundation <25 ft	\$17.35		\$17.35
	Fiberglass w/Foundation >=25 ft	\$29.01		\$29.01
	Metal Poles - Direct Embedded	\$20.68		\$20.68
	Metal Poles with Foundation	\$24.95		\$24.95
	Rate M, LED-1			
	All kWh	\$0.03985	\$0.00001	\$0.03986
	Rate LED-2	\$0.03985	\$0.00001	\$0.03986

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty
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Rate Class	Distribution Rate Component	Current Rates	REP/VMP	
			Adjustment Factor	May 1, 2022 Rates
T	Customer Charge	\$14.74		\$14.74
	All kWh	\$0.04871	\$0.00001	\$0.04872
V	Minimum Charge	\$17.03		\$17.03
	All kWh	\$0.05552	\$0.00001	\$0.05553

Rates D-11 and EV are calculated through the TOU model approved in Docket DE 17-189.

Bill Calculation

Usage 650 kWh

	Current	May 1, 2022 Proposed	Current	May 1, 2022 Proposed
	Rates	Rates	Bill	Bill
Customer Charge	\$14.74	\$14.74	\$14.74	\$14.74
Distribution Charge	\$0.06102	\$0.06039	\$39.66	\$39.26
Storm Recovery Adjustment	\$0.00000	\$0.00000	\$0.00	\$0.00
Transmission Charge	\$0.03760	\$0.03760	\$24.44	\$24.44
Stranded Cost Charge	(\$0.00080)	(\$0.00080)	(\$0.52)	(\$0.52)
System Benefits Charge	\$0.00678	\$0.00678	\$4.41	\$4.41
Electricity Consumption Tax	\$0.00000	\$0.00000	<u>\$0.00</u>	<u>\$0.00</u>
Subtotal Retail Delivery Services			\$82.73	\$82.32
Energy Service Charge	\$0.11119	\$0.11119	<u>\$72.27</u>	<u>\$72.27</u>
Total Bill			\$155.00	\$154.60
\$ increase in 650 kWh Total Residential Bill				(\$0.41)
% increase in 650 kWh Total Residential Bill				-0.26%

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty
VMP O&M Adjustment Factor
Summary of Annual Spending

	Actual FY <u>2008</u> (a)	Actual FY <u>2009</u> (b)	Actual FY <u>2010</u> (c)	Actual FY <u>2011</u> (d)	Actual FY <u>2012</u> (e)	Actual FY <u>2013</u> (f)	Actual CYS <u>2013</u> (f)	Actual CY <u>2014</u> (g)	Actual CY <u>2015</u> (h)	Actual CY <u>2016</u> (i)	Actual CY <u>2017</u> (j)	Actual CY <u>2018</u> (k)	Actual CY <u>2019</u> (l)	Actual CY <u>2020</u> (m)	Actual CY <u>2021</u> (n)
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4 VMP and REP Base Spending Level	\$1,950,000	\$1,360,000	\$1,360,000	\$1,360,000	\$1,360,000	\$1,360,000	\$1,020,000	\$1,360,000	\$1,360,000	\$1,360,000	\$1,360,000	\$1,500,000	\$1,500,000	\$1,500,000	\$2,420,000
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Line 4 VMP base spending level per Docket No. DE 19-064
Line 5 Line 4 minus line 2
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**Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty
Reconciliation of CY 2021 O&M Expense**

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(a) Line 1: Per Company Records

(a) Lines 2 - 12: Prior month Column (c) + Prior month Column (f)

(b) Revenues per the Company's Records

(c) Column (a) - Column (b)

(d) Average of Column (a) and Column (c)

(e) Interest rate on customer deposits

(f) $\text{Column (d)} \times [(1 + \text{Column (e)}) ^ { (1 \div 12) } - 1]$

(g) Prior month Column (g) + Current month Column (f)

* Estimate

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty
Calculation of Vegetation Management Plan Adjustment Factor
Rates Effective May 1, 2022

(1)	CY 2021 O&M Expense Above Base O&M Expense	\$0
(2)	Final Balance of Reconciliation Calendar Year Incremental O&M (Over)/Under Collection	<u>\$12,462</u>
(3)	Vegetation Management Plan Expense	\$12,462
(4)	Estimated kWh deliveries May 1, 2022 - April 30, 2023	917,255,198
(5)	Vegetation Management Plan Adjustment Factor	\$0.00001

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- (2) Schedule DBS-AMH-3, Page 1, Line 15
- (3) Line (1) + Line (2)
- (4) Per Company forecast
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Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty
VMP Rate Presentation
Rates Effective May 1, 2022

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D	Customer Charge	\$14.74		\$14.74
	All kWh	\$0.06038	\$0.00001	\$0.06039
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	Farm kWh	\$0.05699	\$0.00001	\$0.05700
	D-6 kWh	\$0.05310	\$0.00001	\$0.05311
D-10	Customer Charge	\$14.74		\$14.74
	On Peak kWh	\$0.12809	\$0.00001	\$0.12810
	Off Peak kWh	\$0.00172	\$0.00001	\$0.00173
D-11	Customer Charge	\$14.74		\$14.74
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	Mid Peak	\$0.06657	\$0.00001	\$0.06658
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EV	Customer Charge	\$11.35		\$11.35
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	Mid Peak	\$0.06657	\$0.00001	\$0.06658
	Critical Peak	\$0.09478	\$0.00001	\$0.09479
G-1	Customer Charge	\$444.70		\$444.70
	Demand Charge	\$9.43		\$9.43
	On Peak kWh	\$0.00603	\$0.00001	\$0.00604
	Off Peak kWh	\$0.00178	\$0.00001	\$0.00179
	Credit for High Voltage Delivery > 2.4 kv	(\$0.48)		(\$0.48)
G-2	Customer Charge	\$74.11		\$74.11
	Demand Charge	\$9.48		\$9.48
	All kWh	\$0.00239	\$0.00001	\$0.00240
	Credit for High Voltage Delivery > 2.4 kv	(\$0.48)		(\$0.48)
G-3	Customer Charge	\$17.03000		\$17.03000
	All kWh	\$0.05398	\$0.00001	\$0.05399

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty

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Attachment HMT/AMH-1

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Rate Class	Distribution Rate Component	Current Rates	REP/VMP	
			Adjustment Factor	May 1, 2022 Rates
M	Luminaire Charge Description			
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	HPS 9,600	\$10.08		\$10.08
	HPS 27,500	\$16.73		\$16.73
	HPS 50,000	\$20.81		\$20.81
	HPS 9,600 (Post Top)	\$11.83		\$11.83
	HPS 27,500 Flood	\$16.91		\$16.91
	HPS 50,000 Flood	\$22.58		\$22.58
	Incandescent 1,000	\$11.19		\$11.19
	Mercury Vapor 4,000	\$7.74		\$7.74
	Mercury Vapor 8,000	\$8.69		\$8.69
	Mercury Vapor 22,000	\$15.54		\$15.54
	Mercury Vapor 63,000	\$26.26		\$26.26
	Mercury Vapor 22,000 Flood	\$17.78		\$17.78
	Mercury Vapor 63,000 Flood	\$34.44		\$34.44
LED-1	LED-1 Fixtures			
	30 Watt Pole Top	\$5.66		\$5.66
	50 Watt Pole Top	\$5.90		\$5.90
	130 Watt Pole Top	\$9.10		\$9.10
	190 Watt Pole Top	\$17.44		\$17.44
	30 Watt URD	\$13.18		\$13.18
	90 Watt Flood	\$8.96		\$8.96
	130 Watt Flood	\$10.31		\$10.31
	30 Watt Caretaker	\$5.07		\$5.07
	Rates M, LED-1 & LED-2 Pole Accessory Charge			
	Pole -Wood	\$9.87		\$9.87
	Fiberglass - Direct Embedded	\$10.28		\$10.28
	Fiberglass w/Foundation <25 ft	\$17.35		\$17.35
	Fiberglass w/Foundation >=25 ft	\$29.01		\$29.01
	Metal Poles - Direct Embedded	\$20.68		\$20.68
	Metal Poles with Foundation	\$24.95		\$24.95
	Rate M, LED-1			
	All kWh	\$0.03985	\$0.00001	\$0.03986
	Rate LED-2	\$0.03985	\$0.00001	\$0.03986

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			Adjustment Factor	
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	All kWh	\$0.04871	\$0.00001	\$0.04872
V	Minimum Charge	\$17.03		\$17.03
	All kWh	\$0.05552	\$0.00001	\$0.05553

Rates D-11 and EV are calculated through the TOU model approved in Docket DE 17-189.

Bill Calculation

Usage 650 kWh

	Current	May 1, 2022 Proposed	Current	May 1, 2022 Proposed
	Rates	Rates	Bill	Bill
Customer Charge	\$14.74	\$14.74	\$14.74	\$14.74
Distribution Charge	\$0.06102	\$0.06039	\$39.66	\$39.26
Storm Recovery Adjustment	\$0.00000	\$0.00000	\$0.00	\$0.00
Transmission Charge	\$0.03760	\$0.03760	\$24.44	\$24.44
Stranded Cost Charge	(\$0.00080)	(\$0.00080)	(\$0.52)	(\$0.52)
System Benefits Charge	\$0.00678	\$0.00678	\$4.41	\$4.41
Electricity Consumption Tax	\$0.00000	\$0.00000	<u>\$0.00</u>	<u>\$0.00</u>
Subtotal Retail Delivery Services			\$82.73	\$82.32
Energy Service Charge	\$0.11119	\$0.11119	<u>\$72.27</u>	<u>\$72.27</u>
Total Bill			\$155.00	\$154.60
\$ increase in 650 kWh Total Residential Bill				(\$0.41)
% increase in 650 kWh Total Residential Bill				-0.26%