Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities Docket No DE 20-xxx Schedule DBS-AMH-1 Page 1 of 16

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities REP/VMP Revenue Requirement Annual Rate Changes Annual Incremental Rate Adjustments

		Actual <u>7/1/2008</u> (a)	Actual <u>7/1/2009</u> (b)	Actual <u>7/1/2010</u> (c)	Actual <u>7/1/2011</u> (d)	Actual <u>7/1/2012</u> (e)	Actual <u>7/1/2013</u> (f)	Actual <u>6/1/2014</u> (g)	Actual <u>5/1/2015</u> (h)	Actual <u>6/1/2016</u> (i)	Actual <u>5/1/2017</u> (j)	Actual <u>5/1/2018</u> (k)	Actual <u>5/1/2019</u> (I)	Actual <u>5/1/2020</u> (m)
A	nnual Incremental Rate Adjustments													
1	REP/VMP O&M Adjustment Factor	\$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
2	REP Capital Program	\$165,840	\$75,740	\$163,663	\$102,941	(\$18,005)	\$125,829	\$37,374	\$253,423	\$180,132	\$120,019	\$76,833	\$149,538	\$210,503
3	Total for Fiscal Year	\$165,840	\$189,572	\$1,211,433	(\$655,172)	(\$313,213)	\$73,748	(\$238,466)	\$42,838	\$526,316	\$43,915	\$629,247	\$593,839	\$311,650
4	Termination of Prior Period O&M Recovery	\$0	\$0	(\$113,832)	(\$1,047,770)	\$758,113	\$295,207	\$52,081	\$275,840	\$210,585	(\$346,184)	\$76,104	(\$552,414)	(\$444,301)
5	Net Change in Recovery	\$165,840	\$189,572	\$1,097,601	(\$1,702,942)	\$444,900	\$368,955	(\$186,385)	\$318,678	\$736,901	(\$302,269)	\$705,351	\$41,425	(\$132,651)

Notes:

Line 1 From DBS-AMH-1, Page 2 of 15, Line 7 Line 2 From DBS-AMH-1, Page 3 of 15, Line 66 Line 3 Line 1 + Line 2 Line 4 Line 1 of Prior Year Line 5 Line 3 + Line 4

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities REP/VMP O&M Adjustment Factor Computation of Annual Revenue Requirement CY 2019 Actual

		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> (I)
<u>I</u>	ncremental VMP and REP O&M Spend	(u)	(5)	(0)	(4)	(0)	(1)	(1)	(9)	(1)	(1)	07		(1)
1	Actual VMP and REP Program Spending	\$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	Proposed 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
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
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	\$1,500,000	\$1,500,000	\$1,500,000
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
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)
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
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

Notes:

Line 1 2019 Actual VMP and REP program spending Line 4 VMP and REP base spending level per Docket No. DE 16-383

Line 5 Line 3 minus Line 4

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 Utilities REP/VMP Revenue Requirement Computation of REP Revenue Requirement CY 2019 Actual

		Revised FY <u>2008</u>	Revised FY <u>2009</u>	Revised FY <u>2010</u>	Revised FY <u>2011</u>	Revised FY 2012	Actual FY <u>2013</u>	Actual CYS <u>2013</u>	Actual CY <u>2014</u>	Actual CY <u>2015</u>	Actual CY <u>2016</u>	Actual CY <u>2017</u>	Actual CY <u>2018</u>	Actual CY <u>2019</u>
1 2	Deferred Tax Calculation REP Program Annual Spend Cumulative REP Program Spend	\$950,000 \$950,000	\$500,000 \$1,450,000	\$876,243 \$2,326,243	\$610,835 \$2,937,078	\$398,239 \$3,335,317	\$545,916 \$3,881,233	\$416,755 \$4,297,988	\$2,201,899 \$6,499,887	\$1,321,456 \$7,821,343	\$849,390 \$8,670,733	\$1,699,030 \$10,369,763	\$756,363 \$11,126,126	\$1,837,934 \$12,964,060
3 4	Book Depreciation Rate (a)	3.70%	3.72%	3.71%	3.73%	3.72%	3.33%	3.72%	2.88%	2.86%	2.86%	2.76%	2.75%	2.63%
5 6 7 8 9 10 11 12 13 14 15 16 17 18	FEDERAL Vintage Year Tax Depreciation: FY 2008 Spend FY 2019 Spend FY 2019 Spend FY 2011 Spend FY 2011 Spend FY 2012 Spend CY 2013 Spend CY 2014 Spend CY 2014 Spend CY 2016 Spend CY 2016 Spend CY 2017 Spend CY 2018 Spend CY 2018 Spend	\$429,887	\$39,010 \$338,156	\$36,081 \$12,139 \$550,022	\$33,379 \$11,227 \$24,467 \$481,705	\$30,872 \$10,387 \$22,630 \$9,685 \$377,329	\$28,559 \$9,606 \$20,936 \$8,958 \$2,968 \$332,964	\$14,858 \$4,999 \$10,892 \$4,662 \$1,544 \$11,900 \$212,773	\$19,810 \$6,665 \$14,522 \$6,215 \$2,059 \$15,867 \$5,861 \$1,142,236	\$24,112 \$8,219 \$17,913 \$7,665 \$2,539 \$14,676 \$15,043 \$79,478 \$685,505	\$24,106 \$7,503 \$16,567 \$7,090 \$2,349 \$13,577 \$13,913 \$73,510 \$47,698 \$440,621	\$24,112 \$7,501 \$15,123 \$6,558 \$2,173 \$12,557 \$12,871 \$68,006 \$44,117 \$30,659 \$881,372	\$24,106 \$7,503 \$15,120 \$5,986 \$2,009 \$11,616 \$11,905 \$62,897 \$40,813 \$28,357 \$61,326 \$28,364	\$24,106 \$7,501 \$15,123 \$5,985 \$1,834 \$10,744 \$11,013 \$58,185 \$37,747 \$26,233 \$56,722 \$54,602 \$54,602 \$56,923
19 20	Annual Tax Depreciation Cumulative Tax Depreciation	\$429,887 \$429,887	\$377,166 \$807,053	\$598,242 \$1,405,295	\$550,778 \$1,956,073	\$450,902 \$2,406,975	\$403,992 \$2,810,967	\$261,627 \$3,072,594	\$1,213,235 \$4,285,829	\$855,149 \$5,140,977	\$646,934 \$5,787,911	\$1,105,049 \$6,892,960	\$271,638 \$7,164,598	\$378,718 \$7,543,316
21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	STATE Vintage Year Tax Depreciation: FY 2008 Spend FY 2009 Spend FY 2010 Spend FY 2011 Spend FY 2012 Spend CY 2013 Spend CY 2013 Spend CY 2014 Spend CY 2015 Spend CY 2015 Spend CY 2017 Spend CY 2017 Spend CY 2018 Spend CY 2018 Spend	\$334,991	\$46,127 \$176,311	\$42,664 \$24,277 \$223,801	\$39,469 \$22,455 \$48,935 \$199,462	\$36,504 \$20,773 \$45,261 \$30,854 \$181,087	\$33,770 \$19,213 \$41,872 \$28,538 \$19,837 \$179,810	\$17,568 \$9,998 \$21,784 \$14,850 \$10,320 \$20,395 \$8,791	\$23,425 \$13,330 \$29,045 \$19,800 \$13,761 \$27,193 \$11,721 \$82,571	\$28,511 \$16,438 \$35,825 \$24,417 \$16,973 \$25,151 \$30,086 \$158,955 \$49,555	\$28,504 \$15,006 \$33,134 \$22,588 \$15,698 \$23,268 \$27,827 \$147,021 \$95,396 \$31,852	\$28,511 \$15,002 \$30,246 \$20,891 \$14,522 \$21,520 \$25,743 \$136,011 \$88,234 \$61,317 \$63,714	\$28,504 \$15,006 \$30,239 \$19,071 \$13,431 \$19,908 \$125,794 \$81,626 \$56,714 \$122,653 \$28,364	\$28,504 \$15,002 \$30,246 \$19,066 \$12,261 \$18,412 \$22,026 \$116,370 \$75,495 \$52,467 \$113,444 \$54,602 \$68,923
36 37	Annual Tax Depreciation Cumulative Tax Depreciation	\$334,991 \$334,991	\$222,438 \$557,429	\$290,742 \$848,171	\$310,320 \$1,158,492	\$314,480 \$1,472,971	\$323,039 \$1,796,010	\$103,706 \$1,899,716	\$220,846 \$2,120,562	\$385,912 \$2,506,473	\$440,294 \$2,946,767	\$505,712 \$3,452,479	\$477,817 \$3,930,296	\$626,819 \$4,557,115
38 39 40 41	Book Depreciation Cumulative Book Depreciation	\$35,150 \$35,150	\$53,940 \$89,090	\$86,304 \$175,394	\$109,645 \$285,039	\$124,074 \$409,113	\$129,109 \$538,222	\$119,933 \$658,155	\$140,398 \$798,553	\$223,690 \$1,022,243	\$247,983 \$1,270,226	\$286,205 \$1,556,431	\$306,305 \$1,862,736	\$341,565 \$2,204,302
42 43 44 45 46 47 48 49 50	Book/Tax Timer (Federal) less: Deferred Tax Reserve (State) Net Book/Tax Timer (Federal) Effective Tax Rate (Federal) Deferred Tax Reserve (Federal) Book/Tax Timer (State) Effective Tax Rate (State) Deferred Tax Reserve TOTAL Deferred Tax Reserve	\$394,737 \$25,486 \$369,251 35.00% \$129,238 \$299,841 8.50% \$25,486 \$154,724	\$717,963 \$39,809 \$678,154 35.00% \$237,354 \$468,339 8.50% \$39,809 \$277,163	\$1,229,901 \$57,186 \$1,172,715 35.00% \$410,450 \$672,778 8.50% \$57,186 \$467,636	\$1,671,034 \$74,243 \$1,596,791 35.00% \$558,877 \$873,453 8.50% \$74,243 \$633,120	\$1,997,862 \$90,428 \$1,907,435 35.00% \$667,602 \$1,063,859 8.50% \$90,428 \$758,030	\$2,272,745 \$106,912 \$2,165,833 35.00% \$758,041 \$1,257,788 8.50% \$106,912 \$864,953	\$2,414,439 \$105,533 \$2,308,906 34.00% \$785,028 \$1,241,561 8.50% \$105,533 \$890,561	\$3,487,276 \$112,371 \$3,374,905 34.00% \$1,147,468 \$1,322,009 8.50% \$112,371 \$1,259,839	\$4,118,734 \$126,160 \$3,992,575 34.00% \$1,357,475 \$1,484,231 8.50% \$126,160 \$1,483,635	\$4,517,685 \$142,506 \$4,375,179 34.00% \$1,487,561 \$1,676,542 8.50% \$142,506 \$1,630,067	\$5,336,528 \$155,476 \$5,181,052 34.00% \$1,761,558 \$1,896,048 8.20% \$155,476 \$1,917,034	\$5,301,861 \$159,202 \$5,142,659 21.00% \$1,079,958 \$2,067,559 7.70% \$159,202 \$1,239,161	\$5,339,014 \$181,167 \$5,157,847 21.00% \$1,083,148 \$2,352,813 7.70% \$181,167 \$1,264,315
51 52	Rate Base Calculation													
53 54 55 56	Plant In Service Accumulated Book Depreciation Deferred Tax Reserve Year End Rate Base	(\$35,150) (\$154,724)	(\$89,090) (\$277,163)	(\$175,394) (\$467,636)	(\$285,039) (\$633,120)	(\$409,113) (\$758,030)	(\$864,953)	\$4,297,988 (\$658,155) (\$890,561) \$2,749,272	\$6,499,887 (\$798,553) (\$1,259,839) \$4,441,496	(\$1,022,243)	\$8,670,733 (\$1,270,226) (\$1,630,067) \$5,770,440	\$10,369,763 (\$1,556,431) (\$1,917,034) \$6,896,298	\$11,126,126 (\$1,862,736) (\$1,239,161) \$8,024,229	(\$2,204,302) (\$1,264,315)
57 58 59 60 61	<u>Revenue Requirement Calculation</u> Year End Rate Base Pre-Tax ROR Return and Taxes	\$760,126 <u>11.91%</u> \$90,515	\$1,083,747 <u>11.91%</u> \$129,051	\$1,683,213 <u>11.91%</u> \$200,435	\$2,018,919 <u>11.91%</u> \$240,410	\$2,168,174 <u>11.91%</u> \$258,183	\$2,478,057 <u>11.91%</u> \$295,084	\$2,749,272 <u>11.36%</u> \$312,413	\$4,441,496 <u>11.36%</u> \$504,338	\$5,315,465 <u>11.36%</u> \$603,837	\$5,770,440 <u>11.36%</u> \$655,522	\$6,896,298 <u>8.74%</u> \$603.059	\$8,024,229 9.43% \$756,740	\$9,495,444 9.43% \$895,485
62 63	Book Depreciation Property Taxes (b) 3.12%	\$35,150 \$21,773	\$53,940 \$27,218	\$86,304 \$66,676	\$109,645 \$89,904	\$124,074 \$110,318	\$129,109 \$118,343	\$119,933 \$149,961	\$140,398 \$190,995	\$223,690 \$161,819	\$247,983 \$232.376	\$286,205 \$323,449	\$306,305 \$299,207	\$341,565 \$335,704
64 65	Annual Revenue Requirement Prior Period Change for Repairs Tax Deduct & B	\$147,438 onus Depreci	\$210,209	\$353,415	\$439,960	\$492,575 (\$73,471)	\$542,536 \$2,397	\$582,307	\$835,730	\$1,015,862	\$1,135,881	\$1,212,714	\$1,362,252	\$1,572,755
66 67 68 69 70	Adjusted Annual Revenue Requirement <u>Annual Rate Adjustment</u> Incremental Annual Rate Adjustment Prior Period Correction (f) Incremental Annual Rate Adjustment with Prior F	\$147,438 7/1/2008 \$147,438	\$210,209 7/1/2009 \$62,771	\$353,415 7/1/2010 \$143,205	\$439,960 7/1/2011 \$86,545	\$419,104 7/1/2012 (\$20,856)	\$544,933 7/1/2013 \$125,829	\$582,307 6/1/2014 \$37,374	\$835,730 5/1/2015 \$253,423	\$1,015,862 6/1/2016 \$180,132	\$1,135,881 5/1/2017 \$120,019	\$1,212,714 5/1/2018 \$76,833	\$1,362,252 5/1/2019 \$149,538 \$48,274 \$197,812	\$1,572,755 5/1/2020 \$210,503 \$0 \$210,503
	Imputed Capital Structure (c)	Doti-	Dete	Weighted	Dro T									
73 74 75 76	Long Term Debt Common Equity	Ratio 50.00% 50.00%	Rate 7.54% 9.67%	Rate 3.77% 4.84%	Pre Tax 3.77% 8.14%									
77 78	•	100.00%		8.61%	11.91%									
79 80 81 82 83 84 85	Imputed Capital Structure (d) Long Term Debt Common Equity	Ratio 45.00% 55.00% 100.00%	Rate 5.95% 9.55%	Weighted Rate 2.68% 5.25% 7.93%	Pre Tax 2.68% 8.68% 11.36%									

83 84		100.00%		7.93%	11.36%
04		100.0070	-	1.3370	11.5070
85			-		
86	Imputed Capital Structure (e)			Weighted	
87		Ratio	Rate	Rate	Pre Tax
88	Long Term Debt	50.00%	5.97%	2.99%	2.99%
89	Common Equity	50.00%	9.40%	4.70%	6.45%
90					
91		100.00%	-	7.69%	9.43%

(a) Prior Period Actual Calendar Year Composite Depreciation rate for distribution property, reference Schedule DBS-AMH-6.
(b) Prior Period Actual Calendar Year ratio of municipal tax expense to net plant in service, reference Schedule DBS-AMH-6.
(c) Capital structure per Marger Settlement in Docket DG 06-107, Exhibit 1, Section 3(c).
(d) Capital structure per Rate Case Settlement in Docket DE 13-063, Attachment A, Schedule 1B.
(e) Capital structure per Rate Case Settlement in Docket DE 16-363, Section II A. Updated LT debt rate as of Q3 2018.
(f) Additional \$48,274 due to the cost of debt rate used in Docket DG 18-034 (CY 2018) being too low

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities REP/MP Revenue Requirement Calculation of REP Tax Depreciation 2008 - Per Tax Return Using Capital Repairs Tax Return Rate

	(a) <u>2008</u>	(b) <u>2009</u>	(c) <u>2010</u>	(d) <u>2011</u>	(e) <u>2012</u>	(f) <u>2013</u>	(g) <u>CYS2013</u>	(h) <u>CY2014</u>	(i) <u>CY2015</u>	(j) <u>CY2016</u>	(k) <u>CY2017</u>	(I) <u>CY2018</u>	(m) <u>CY2019</u>
1 <u>Capital Repairs Deduction</u> 2 Plant Additions 3 Capital Repairs Deduction Rate 4 Capital Repairs Deduction	\$950,000 <u>32.74%</u> \$311,030												
Capital Repairs Deduction S Bonus Depreciation Plant Additions Less Capital Repairs Deduction Plant Additions Net of Capital Repairs Deduction	\$950,000 \$311,030 \$638,970												
10 11 Percent of Plant Additions Eligible for Bonus Depreciation April 2007 - December 2007 12 Plant Additions Eligible for Bonus Depreciation April 2007 - December 2007 13 Bonus Depreciation rate April 2007- December 2007	69.14% \$441,784 0%												
 Bonus Depreciation for April 2007 - December 2007 For Additions Eligible for Bonus Depreciation for January 2008 - March 2008 Plant Additions Eligible for Bonus Depreciation for January 2008 - March 2008 Bonus Depreciation rate January 2008 - March 2008 	\$0 <u>30.86%</u> \$197,186 <u>50%</u>												
19 Bonus Depreciation for January 2008 - March 2008 20 21 Bonus Depreciation 22 23 Remaining Tax Depreciation (Federal)	\$98,593 \$98,593												
24 Plant Additions 25 Less Capital Repairs Deduction 26 Less Bonus Depreciation 27 Additions Subject to 20 YR MACRS Tax Depreciation	\$950,000 \$311,030 \$98,593 \$540,377	\$540,377	\$540,377	\$540,377	\$540,377	\$540,377	\$540,377	\$540,377	\$540,377	\$540,377	\$540,377		\$540,377
28 20 YR MACRS Tax Depreciation Rates 29 Remaining Tax Depreciation 30 31 <u>Remaining Tax Depreciation (State)</u> 32 Plant Additions	3.750% \$20,264 \$950,000	7.219% \$39,010	<u>6.677%</u> \$36,081	<u>6.177%</u> \$33,379	<u>5.713%</u> \$30,872	<u>5.285%</u> \$28,559	<u>3.666%</u> \$14,858	<u>4.888%</u> \$19,810	<u>4.462%</u> \$24,112	<u>4.461%</u> \$24,106	<u>4.462%</u> \$24,112	<u>4.461%</u> \$24,106	<u>4.461%</u> \$24,106
33 Less Capital Repairs Deduction 34 Additions Subject to 20 YR MACRS Tax Depreciation 35 20 YR MACRS Tax Depreciation Rates 36 Remaining Tax Depreciation	\$311,030 \$638,970 3.750% \$23,961	\$638,970 <u>7.219%</u> \$46,127	\$638,970 <u>6.677%</u> \$42,664	\$638,970 <u>6.177%</u> \$39,469	\$638,970 <u>5.713%</u> \$36,504	\$638,970 <u>5.285%</u> \$33,770	\$638,970 <u>3.666%</u> \$17,568	\$638,970 <u>4.888%</u> \$23,425	\$638,970 <u>4.462%</u> \$28,511	\$638,970 <u>4.461%</u> \$28,504	\$638,970 <u>4.462%</u> \$28,511	\$638,970 <u>4.461%</u> \$28,504	\$638,970 <u>4.461%</u> \$28,504
37 38 Federal Tax Depreciation 39 State Tax Depreciation	\$429,887 \$334,991	\$39,010 \$46,127	\$36,081 \$42,664	\$33,379 \$39,469	\$30,872 \$36,504	\$28,559 \$33,770	\$14,858 \$17,568	\$19,810 \$23,425	\$24,112 \$28,511	\$24,106 \$28,504	\$24,112 \$28,511	\$24,106 \$28,504	\$24,106 \$28,504

Note: Plant additions not subject to the capital repairs deduction may be subject to bonus depreciation. During 2008, Congress passed the Economic Stimulus Act of 2008 which established a 50% bonus depreciation deduction for certain eligible plant additions. Congress has passed further laws which have extended and changed the bonus depreciation rate at different periods of time. The bonus depreciation rates in effect since the start of the Company's REP/VMP program have been as follows:

Period	Rate
April 1, 2007 to December 31, 2007	0%
January 1, 2008 to September 7, 2010	50%

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities Docket No DE 20-xxx Schedule DBS-AMH-1 Page 5 of 16

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities REP/VMP Revenue Requirement Calculation of REP Tax Depreciation 2009 - Per Tax Return Using Capital Repairs Tax Return Rate

	(a) 2009	(b) 2010	(c) 2011	(d) 2012	(e) 2013	(f) CYS2013	(g) CY2014	(h) CY2015	(i) CY2016	(j) CY2017	(k) CY2018	(I) CY2019
	2000	2010	2011	2012	2010	0102010	012014	012010	012010	012011	012010	012010
1 Capital Repairs Deduction												
2 Plant Additions	\$500,000											
3 Capital Repairs Deduction Rate	32.74%											
4 Capital Repairs Deduction	\$163,700											
5												
6 Bonus Depreciation												
7 Plant Additions	\$500,000											
8 Less Capital Repairs Deduction	\$163,700											
9 Plant Additions Net of Capital Repairs Deduction	\$336,300											
10												
11 Percent of Plant Additions Eligible for Bonus Depreciation	100.00%											
12 Plant Additions Eligible for Bonus Depreciation	\$336,300											
13 Bonus Depreciation Rate	50%											
14 Bonus Depreciation	\$168,150											
15												
16 Bonus Depreciation	\$168,150											
17												
18 Remaining Tax Depreciation (Federal)												
19 Plant Additions	\$500,000											
20 Less Capital Repairs Deduction	\$163,700											
21 Less Bonus Depreciation	\$168,150											
22 Additions Subject to 20 YR MACRS Tax Depreciation	\$168,150	\$168,150	\$168,150	\$168,150	\$168,150	\$168,150	\$168,150	\$168,150		,	• ,	,
23 20 YR MACRS Tax Depreciation Rates	3.750%	7.219%	6.677%	6.177%	5.713%	3.964%	5.285%	4.888%	4.462%	4.461%	4.462%	4.461%
24 Remaining Tax Depreciation	\$6,306	\$12,139	\$11,227	\$10,387	\$9,606	\$4,999	\$6,665	\$8,219	\$7,503	\$7,501	\$7,503	\$7,501
25												
26 Remaining Tax Depreciation (State)												
27 Plant Additions	\$500,000											
28 Less Capital Repairs Deduction	\$163,700											
29 Additions Subject to 20 YR MACRS Tax Depreciation	\$336,300	\$336,300	\$336,300	\$336,300	\$336,300	\$336,300	\$336,300	\$336,300	\$336,300	. ,		\$336,300
30 20 YR MACRS Tax Depreciation Rates	3.750%	7.219%	6.677%	6.177%	5.713%	3.964%	5.285%	4.888%	4.462%	4.461%	4.462%	
31 Remaining Tax Depreciation	\$12,611	\$24,277	\$22,455	\$20,773	\$19,213	\$9,998	\$13,330	\$16,438	\$15,006	\$15,002	\$15,006	\$15,002
32												
33 Federal Tax Depreciation	\$338,156	\$12,139	\$11,227	\$10,387	\$9,606	\$4,999	\$6,665	\$8,219	\$7,503	\$7,501	\$7,503	\$7,501
34 State Tax Depreciation	\$176,311	\$24,277	\$22,455	\$20,773	\$19,213	\$9,998	\$13,330	\$16,438	\$15,006	\$15,002	\$15,006	\$15,002

<u>Note</u>: Plant additions not subject to the capital repairs deduction may be subject to bonus depreciation. During 2008, Congress passed the Economic Stimulus Act of 2008 which established a 50% bonus depreciation deduction for certain eligible plant additions. Congress has passed further laws which have extended and changed the bonus depreciation rate at different periods of time. The bonus depreciation rates in effect since the start of the Company's REP/VMP program have been as follows:

 Period
 Rate

 April 1, 2007 to December 31, 2007
 0%

 January 1, 2008 to September 7, 2010
 50%

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Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities REP/VMP Revenue Requirement Calculation of REP Tax Depreciation 2010 - Per Tax Return Using Capital Repairs Tax Return Rate

		(a) <u>2010</u>	(b) <u>2011</u>	(c) <u>2012</u>	(d) <u>2013</u>	(e) <u>CYS2013</u>	(f) <u>CY2014</u>	(g) <u>CY2015</u>	(h) <u>CY2016</u>	(i) <u>CY2017</u>	(j) <u>CY2018</u>	(k) <u>CY2019</u>
1	Capital Repairs Deduction											
2	Plant Additions	\$876,243										
3	Capital Repairs Deduction Rate	22.64%										
4	Capital Repairs Deduction	\$198,381										
5												
6	Bonus Depreciation											
7	Plant Additions	\$876,243										
8	Less Capital Repairs Deduction	\$198,381										
9	Plant Additions Net of Capital Repairs Deduction	\$677,862										
10												
11	Percent of Plant Additions Eligible for Bonus Depreciation	100.00%										
12	Plant Additions Eligible for Bonus Depreciation	\$677,862										
13 14	Bonus Depreciation Rate Bonus Depreciation	50% \$338.931										
14	Bonus Depreciation	ф330,93 I										
16	Bonus Depreciation	\$338,931										
17	Bolida Depresiditori	φ000,001										
18	Remaining Tax Depreciation (Federal)											
19	Plant Additions	\$876,243										
20	Less Capital Repairs Deduction	\$198,381										
21	Less Bonus Depreciation	\$338,931										
22	Additions Subject to 20 YR MACRS Tax Depreciation	\$338,931	\$338,931	\$338,931	\$338,931	\$338,931	\$338,931	\$338,931	\$338,931	\$338,931	\$338,931	\$338,931
23	20 YR MACRS Tax Depreciation Rates	3.750%	7.219%	6.677%	6.177%	4.285%	5.713%	5.285%	4.888%	4.462%	4.461%	4.462%
24	Remaining Tax Depreciation	\$12,710	\$24,467	\$22,630	\$20,936	\$10,892	\$14,522	\$17,913	\$16,567	\$15,123	\$15,120	\$15,123
25												
26	Remaining Tax Depreciation (State)											
27	Plant Additions	\$876,243										
28	Less Capital Repairs Deduction	\$198,381										
29	Additions Subject to 20 YR MACRS Tax Depreciation	\$677,862	\$677,862	\$677,862	\$677,862	\$677,862	\$677,862	\$677,862		. ,	. ,	\$677,862
30	20 YR MACRS Tax Depreciation Rates	3.750%	7.219%	6.677%	6.177%	4.285%	5.713%	5.285%	4.888%	4.462%	4.461%	4.462%
31	Remaining Tax Depreciation	\$25,420	\$48,935	\$45,261	\$41,872	\$21,784	\$29,045	\$35,825	\$33,134	\$30,246	\$30,239	\$30,246
32		#550000	004 40 7	\$00.000	* 00.000	#10.000	044 500	#47.04 0	640 50 7	645 400	645 400	\$15,100
33	Federal Tax Depreciation	\$550,022	\$24,467	\$22,630	\$20,936	\$10,892	\$14,522	\$17,913	\$16,567	\$15,123	\$15,120	\$15,123
34	State Tax Depreciation	\$223,801	\$48,935	\$45,261	\$41,872	\$21,784	\$29,045	\$35,825	\$33,134	\$30,246	\$30,239	\$30,246

<u>Note</u>: Plant additions not subject to the capital repairs deduction may be subject to bonus depreciation. During 2008, Congress passed the Economic Stimulus Act of 2008 which established a 50% bonus depreciation deduction for certain eligible plant additions. Congress has passed further laws which have extended and changed the bonus depreciation rate at different periods of time. The bonus depreciation rates in effect since the start of the Company's

Period	Rate
April 1, 2007 to December 31, 2007	0%
January 1, 2008 to September 7, 2010	50%
September 8, 2010 to December 31, 2010	100%

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Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities REP/VMP Revenue Requirement Calculation of REP Tax Depreciation 2011 - Per Tax Return Using Capital Repairs Tax Return Rate

		(a) <u>2011</u>	(b) <u>2012</u>	(c) <u>2013</u>	(d) <u>CYS2013</u>	(e) <u>CY2014</u>	(f) <u>CY2015</u>	(g) <u>CY2016</u>	(h) <u>CY2017</u>	(i) <u>CY2018</u>	(j) <u>CY2019</u>
1	Capital Repairs Deduction										
2	Plant Additions	\$610,835									
3	Capital Repairs Deduction Rate	30.03%									
4	Capital Repairs Deduction	\$183,434									
5											
6	Bonus Depreciation										
7	Plant Additions	\$610,835									
8	Less Capital Repairs Deduction	\$183,434									
9	Plant Additions Net of Capital Repairs Deduction	\$427,401									
10											
	Percent of Plant Additions Eligible for Bonus Depreciation April 2010 - September 2010	62.78%									
12	Plant Additions Eligible for Bonus Depreciation April 2010 - September 2010	\$268,322									
13	Bonus Depreciation rate April 2010- September 2010	50%									
14	Bonus Depreciation for April 2010 - September 2010	\$134,161									
15	Plant Additions Eligible for Bonus Depreciation for October 2010 - March 2011	37.22%									
	Plant Additions Eligible for Bonus Depreciation for October 2010 - March 2011 Plant Additions Eligible for Bonus Depreciation for October 2010 - March 2011	\$159,079									
18		\$159,079 100%									
19	Bonus Depreciation for October 2010 - March 2011	\$159,079									
20	Bonds Depreciation for October 2010 - March 2011	\$159,079									
21	Bonus Depreciation	\$293,240									
22	Bonds Depresidation	ψ200,240									
23	Remaining Tax Depreciation (Federal)										
24	Plant Additions	\$610,835									
	Less Capital Repairs Deduction	\$183,434									
26	Less Bonus Depreciation	\$293,240									
27	Additions Subject to 20 YR MACRS Tax Depreciation	\$134,161	\$134,161	\$134,161	\$134,161	\$134,161	\$134,161	\$134,161	\$134,161	\$134,161	\$134,161
28	20 YR MACRS Tax Depreciation Rates	3.750%	7.219%	6.677%	4.633%	6.177%	5.713%	5.285%	4.888%	4.462%	4.461%
29	Remaining Tax Depreciation	\$5,031	\$9,685	\$8,958	\$4,662	\$6,215	\$7,665	\$7,090	\$6,558	\$5,986	\$5,985
30											
31	Remaining Tax Depreciation (State)										
32	Plant Additions	\$610,835									
33	Less Capital Repairs Deduction	\$183,434									
		\$427,401	\$427,401	\$427,401	\$427,401	\$427,401		\$427,401			
	20 YR MACRS Tax Depreciation Rates	3.750%	7.219%	6.677%	4.633%	6.177%	5.713%	5.285%		4.462%	
36	Remaining Tax Depreciation	\$16,028	\$30,854	\$28,538	\$14,850	\$19,800	\$24,417	\$22,588	\$20,891	\$19,071	\$19,066
37	Extend Tax Dama dation		00.007	00.05 0	#4.000	00015	#7 005	A7.000	#0 550	AE 000	* 5 005
38	Federal Tax Depreciation	\$481,705	\$9,685	\$8,958	\$4,662	\$6,215	\$7,665	\$7,090	\$6,558	\$5,986	\$5,985
39	State Tax Depreciation	\$199,462	\$30,854	\$28,538	\$14,850	\$19,800	\$24,417	\$22,588	\$20,891	\$19,071	\$19,066

Note: Plant additions not subject to the capital repairs deduction may be subject to bonus depreciation. During 2008, Congress passed the Economic Stimulus Act of 2008 which established a 50% bonus depreciation deduction for certain eligible plant additions. Congress has passed further laws which have extended and changed the bonus depreciation rate at different periods of time. The bonus depreciation rates in effect since the start of the Company's REP/VMP program have been as follows:

Rate

0%

50%

100%

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities REP/VMP Revenue Requirement Calculation of REP Tax Depreciation 2012 - Per Tax Return Using Capital Repairs Tax Return Rate

		(a) <u>2012</u>	(b) <u>2013</u>	(c) <u>CYS2013</u>	(d) <u>CY2014</u>	(e) <u>CY2015</u>	(f) <u>CY2016</u>	(g) <u>CY2017</u>	(h) <u>CY2018</u>	(i) <u>CY2019</u>
1 2	Capital Repairs Deduction Plant Additions	\$398,239								
3	Capital Repairs Deduction Rate	31.00%								
4	Capital Repairs Deduction	\$123,454								
5										
6	Bonus Depreciation									
7	Plant Additions	\$398,239								
8	Less Capital Repairs Deduction	\$123,454								
9 10	Plant Additions Net of Capital Repairs Deduction	\$274,785								
10	Percent of Plant Additions Eligible for Bonus Depreciation April 2011 - December, 2011	72.52%								
12	Plant Additions Eligible for Bonus Depreciation April 2011 - December, 2011	\$199.274								
13	Bonus Depreciation rate April 2011- December 2011	100%								
14	Bonus Depreciation for April 2011 - December 2011	\$199,274								
15										
16	Plant Additions Eligible for Bonus Depreciation for January 2012 - March 2012	25.04%								
17	Plant Additions Eligible for Bonus Depreciation for January 2012 - March 2012	\$68,806								
18	Bonus Depreciation rate January 2012 - March 2012	50%								
19	Bonus Depreciation for January 2012 - March 2012	\$34,403								
20	Panua Danragiatian	¢000 677								
21 22	Bonus Depreciation	\$233,677								
23	Remaining Tax Depreciation (Federal)									
24	Plant Additions	\$398,239								
25	Less Capital Repairs Deduction	\$123,454								
26	Less Bonus Depreciation	\$233,677								
27	Additions Subject to 20 YR MACRS Tax Depreciation	\$41,108	\$41,108	\$41,108	\$41,108	\$41,108	\$41,108	\$41,108	\$41,108	\$41,108
28	20 YR MACRS Tax Depreciation Rates	3.750%	7.219%	5.008%	6.677%	6.177%	5.713%	5.285%	4.888%	4.462%
29	Remaining Tax Depreciation	\$1,542	\$2,968	\$1,544	\$2,059	\$2,539	\$2,349	\$2,173	\$2,009	\$1,834
30										
31	Remaining Tax Depreciation (State) Plant Additions	* ****								
32		\$398,239 \$123,454								
33 34	Less Capital Repairs Deduction Additions Subject to 20 YR MACRS Tax Depreciation	\$274,785	\$274,785	\$274,785	\$274,785	\$274,785	¢074 705	¢074 705	¢074 705	¢074 705
34	20 YR MACRS Tax Depreciation Rates	3.750%	7.219%	\$274,785 5.008%	\$274,785 6.677%	\$274,785 6.177%	5.713%	5.285%	4.888%	4.462%
36	Remaining Tax Depreciation	\$10.304	\$19,837	\$10,320	\$13,761	\$16,973	\$15,698	\$14,522	\$13,431	\$12,261
37		φ10,004	φ10,001	ψ10,020	ψ10,701	φ10,010	ψ10,000	ψ1 4 ,022	ψ10, 4 01	ψ12,201
38	Federal Tax Depreciation	\$358,673	\$2,968	\$1,544	\$2,059	\$2,539	\$2,349	\$2,173	\$2,009	\$1,834
39	State Tax Depreciation	\$133,758	\$19,837	\$10,320	\$13,761	\$16,973	\$15,698	\$14,522	\$13,431	\$12,261
40										
41										
42	FY 2012 Safe Harbor True Up (Federal)	\$18,656								
43	FY 2012 Tax Depreciation (Federal)	\$377,329								
44	FY 2012 Safe Harbor True Up (State)	\$47,329								
45	FY 2012 Tax Depreciation (State)	\$181,087								

Note: Plant additions not subject to the capital repairs deduction may be subject to bonus depreciation. During 2008, Congress passed the Economic Stimulus Act of 2008 which established a 50% bonus depreciation deduction for certain eligible plant additions. Congress has passed further laws which have extended and changed the bonus depreciation rate at different periods of time. The bonus depreciation rates in effect since the start of the Company's REP/VMP program have

Period	Rate
April 1, 2007 to December 31, 2007	0%
January 1, 2008 to September 7, 2010	50%
September 8, 2010 to December 31, 2011	100%
January 1, 2012 to December 31, 2013	50%

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Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities REP/VMP Revenue Requirement Calculation of REP Tax Depreciation 2013 - Per Tax Return Using Capital Repairs Tax Return Rate

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		(a) <u>2013</u>	(b) <u>CYS2013</u>	(c) <u>CY2014</u>	(d) <u>CY2015</u>	(e) <u>CY2016</u>	(f) <u>CY2017</u>	(g) <u>CY2018</u>	(h) <u>CY2019</u>
1	Capital Repairs Deduction								
2	Plant Additions	\$545,916							
3	Capital Repairs Deduction Rate	31.00%							
4 5	Capital Repairs Deduction	\$169,234							
6	Bonus Depreciation								
7	Plant Additions	\$545,916							
8	Less Capital Repairs Deduction	\$169,234							
9	Plant Additions Net of Capital Repairs Deduction	\$376,682							
10									
11		62.48%							
12		\$235,332							
13	Bonus Depreciation rate April 2012- December 2012	50%							
14 15	Bonus Depreciation for April 2012 - December 2012	\$117,666							
16	Plant Additions Eligible for Bonus Depreciation for January 2013 - March 2013	20.83%							
17		\$78,444							
18	Bonus Depreciation rate January 2013 - March 2013	50%							
19	Bonus Depreciation for January 2013 - March 2013	\$39,222							
20									
21	Bonus Depreciation	\$156,888							
22									
23	Remaining Tax Depreciation (Federal)	AF 15 010							
24		\$545,916							
25 26	Less Capital Repairs Deduction Less Bonus Depreciation	\$169,234 \$156,888							
20	Additions Subject to 20 YR MACRS Tax Depreciation	\$219,794	\$219.794	\$219.794	\$210 704	\$219,794	¢210.704	¢210.704	\$210 704
28		3.750%	5.414%	7.219%	6.677%	6.177%	5.713%	5.285%	4.888%
29		\$8.242	\$11.900	\$15,867	\$14,676	\$13,577	\$12,557	\$11,616	\$10,744
30		ψ0,242	ψ11,000	φ10,001	ψ14,010	ψ10,011	ψ12,001	ψ11,010	ψ10,744
31	Remaining Tax Depreciation (State)								
32	Plant Additions	\$545,916							
33	Less Capital Repairs Deduction	\$169,234							
34	Additions Subject to 20 YR MACRS Tax Depreciation	\$376,682	\$376,682	\$376,682	\$376,682	\$376,682	\$376,682	\$376,682	\$376,682
35		3.750%	5.414%	7.219%	6.677%	6.177%	5.713%	5.285%	4.888%
36	Remaining Tax Depreciation	\$14,126	\$20,395	\$27,193	\$25,151	\$23,268	\$21,520	\$19,908	\$18,412
37									
38	Federal Tax Depreciation	\$334,364	\$11,900	\$15,867	\$14,676	\$13,577	\$12,557	\$11,616	\$10,744
39	State Tax Depreciation	\$183,360	\$20,395	\$27,193	\$25,151	\$23,268	\$21,520	\$19,908	\$18,412
40									
41									
42		(\$1,400)							
	FY 2013 Tax Depreciation (Federal)	\$332,964							
	Effect of FY 2012 Safe Harbor True Up on FY 2013 Tax Depreciation (State) FY 2013 Tax Depreciation (State)	(\$3,550) \$179,810							
+J		ψ179,010							

Note: Plant additions not subject to the capital repairs deduction may be subject to bonus depreciation. During 2008, Congress passed the Economic Stimulus Act of 2008 which established a 50% bonus depreciation deduction for certain eligible plant additions. Congress has passed further laws which have extended and changed the bonus depreciation rate at different periods of time. The bonus depreciation rates in effect since the start of the

Period	Rate
April 1, 2007 to December 31, 2007	0%
January 1, 2008 to September 7, 2010	50%
September 8, 2010 to December 31, 2011	100%
January 1, 2012 to December 31, 2013	50%

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Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities REP/VMP Revenue Requirement Calculation of REP Tax Depreciation 2013 - Per Tax Return Using Capital Repairs Tax Return Rate

		(a) CYS2013	(b) CY2014	(c) CY2015	(d) CY2016	(e) CY2017	(f) CY2018	(g) CY2019
		0102010	012014	012010	012010	012011	012010	012010
1	Capital Repairs Deduction							
2	Plant Additions	\$416.755						
3	Capital Repairs Deduction Rate	0.00%						
4	Capital Repairs Deduction	\$0						
5		ψ υ						
6	Bonus Depreciation							
7	Plant Additions	\$416.755						
8	Less Capital Repairs Deduction	\$0						
9	Plant Additions Net of Capital Repairs Deduction	\$416,755						
10		. ,						
11	Plant Additions Eligible for Bonus Depreciation for April 2013 - December 2013	100.00%						
12	Plant Additions Eligible for Bonus Depreciation for April 2013 - December 2013	\$416,755						
13	Bonus Depreciation rate April 2013 - December 2013	50%						
14	Bonus Depreciation for April 2013 - December 2013	\$208,378						
15								
16	Bonus Depreciation	\$208,378						
17								
18	Remaining Tax Depreciation (Federal)							
19	Plant Additions	\$416,755	\$416,755	\$416,755	\$416,755	\$416,755	\$416,755	\$416,755
20	Less Capital Repairs Deduction	\$0	\$0	\$0	\$0	\$0	\$0	\$0
21	Less Bonus Depreciation	\$208,378	\$208,378	\$208,378			\$208,378	
22	Additions Subject to 20 YR MACRS Tax Depreciation	\$208,378	\$208,378	\$208,378	\$208,378	\$208,378	\$208,378	\$208,378
23	20 YR MACRS Tax Depreciation Rates	2.813%	3.750%	7.219%	6.677%	6.177%		
24	Remaining Tax Depreciation	\$4,395	\$5,861	\$15,043	\$13,913	\$12,871	\$11,905	\$11,013
25								
26	Remaining Tax Depreciation (State)							
27	Plant Additions	\$416,755	\$416,755		\$416,755		\$416,755	\$416,755
28	Less Capital Repairs Deduction	\$0	\$0	\$0	\$0	\$0	\$0	\$0
29	Additions Subject to 20 YR MACRS Tax Depreciation	\$416,755	\$416,755		. ,	. ,	\$416,755	\$416,755
30	20 YR MACRS Tax Depreciation Rates	2.813%	3.750%	7.219%	6.677%	6.177%	5.713%	5.285%
31	Remaining Tax Depreciation	\$8,791	\$11,721	\$30,086	\$27,827	\$25,743	\$23,809	\$22,026
32								
33	Federal Tax Depreciation	\$212,773	\$5,861	\$15,043	\$13,913	\$12,871	\$11,905	\$11,013
34	State Tax Depreciation	\$8,791	\$11,721	\$30,086	\$27,827	\$25,743	\$23,809	\$22,026

<u>Note</u>: Plant additions not subject to the capital repairs deduction may be subject to bonus depreciation. During 2008, Congress passed the Economic Stimulus Act of 2008 which established a 50% bonus depreciation deduction for certain eligible plant additions. Congress has passed further laws which have extended and changed the bonus depreciation rate at different periods

Period	Rate
April 1, 2007 to December 31, 2007	0%
January 1, 2008 to September 7, 2010	50%
September 8, 2010 to December 31, 2011	100%
January 1, 2012 to December 31, 2013	50%

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Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities REP/VMP Revenue Requirement Calculation of REP Tax Depreciation 2014 - Per Tax Return Using Capital Repairs Tax Return Rate

		(a) <u>CY 2014</u>	(b) <u>CY 2015</u>	(c) <u>CY 2016</u>	(d) <u>CY 2017</u>	(e) <u>CY 2018</u>	(f) <u>CY 2019</u>
1	Capital Repairs Deduction						
2	Plant Additions	\$2,201,899					
3	Capital Repairs Deduction Rate	0.00%					
4	Capital Repairs Deduction	\$0					
5							
6	Bonus Depreciation	** ** ***					
7	Plant Additions	\$2,201,899					
8	Less Capital Repairs Deduction	\$0					
9	Plant Additions Net of Capital Repairs Deduction	\$2,201,899					
10	Direct Additions Elimitate for Domas Domas istica	400.000/					
11 12	Plant Additions Eligible for Bonus Depreciation	100.00% \$2,201,899					
12	Plant Additions Eligible for Bonus Depreciation Bonus Depreciation rate	\$2,201,899 50%					
13	Bonus Depreciation rate	\$1,100,950					
14	Bolius Depreciation rate	φ1,100,950					
16	Bonus Depreciation	\$1,100,950					
17	Bondo Boprociation	ψ1,100,000					
18	Remaining Tax Depreciation (Federal)						
19	Plant Additions	\$2,201,899	\$2,201,899	\$2,201,899	\$2,201,899	\$2,201,899	\$2,201,899
20	Less Capital Repairs Deduction	\$0	\$0	\$0	\$0	\$0	\$0
21	Less Bonus Depreciation	\$1,100,950	\$1,100,950	\$1,100,950	\$1,100,950	\$1,100,950	\$1,100,950
22	Additions Subject to 20 YR MACRS Tax Depreciation	\$1,100,950	\$1,100,950	\$1,100,950		\$1,100,950	\$1,100,950
23	20 YR MACRS Tax Depreciation Rates	3.750%	7.219%	6.677%	6.177%	5.713%	5.285%
24	Remaining Tax Depreciation	\$41,286	\$79,478	\$73,510	\$68,006	\$62,897	\$58,185
25							
26	Remaining Tax Depreciation (State)						
27	Plant Additions	\$2,201,899	\$2,201,899	\$2,201,899	\$2,201,899	\$2,201,899	\$2,201,899
28	Less Capital Repairs Deduction	\$0	\$0	\$0	\$0	\$0	\$0
29	Additions Subject to 20 YR MACRS Tax Depreciation	\$2,201,899	\$2,201,899	\$2,201,899	\$2,201,899	\$2,201,899	\$2,201,899
30	20 YR MACRS Tax Depreciation Rates	3.750%	7.219%	6.677%	6.177%	5.713%	5.285%
31	Remaining Tax Depreciation	\$82,571	\$158,955	\$147,021	\$136,011	\$125,794	\$116,370
32							
33	Federal Tax Depreciation	\$1,142,236	\$79,478	\$73,510	\$68,006	\$62,897	\$58,185
34	State Tax Depreciation	\$82,571	\$158,955	\$147,021	\$136,011	\$125,794	\$116,370

<u>Note</u>: Plant additions not subject to the capital repairs deduction may be subject to bonus depreciation. During 2008, Congress passed the Economic Stimulus Act of 2008 which established a 50% bonus depreciation deduction for certain eligible plant additions. Congress has passed further laws which have extended and changed the bonus depreciation rate at

Period	Rate
January 1, 2007 to December 31, 2007	0%
January 1, 2008 to September 7, 2010	50%
September 8, 2010 to December 31, 2011	100%
January 1, 2012 to December 31, 2013	50%
January 1, 2014 to December 31, 2014	50%

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities Docket No DE 20-xxx Schedule DBS-AMH-1 Page 12 of 16

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities REP/VMP Revenue Requirement Calculation of REP Tax Depreciation 2015 - Per Tax Return Using Capital Repairs Tax Return Rate

	(a) <u>CY 2015</u>	(b) <u>CY 2016</u>	(c) <u>CY 2017</u>	(d) <u>CY 2018</u>	(e) <u>CY 2019</u>
 <u>Capital Repairs Deduction</u> Plant Additions Capital Repairs Deduction Rate Capital Repairs Deduction 	\$1,321,456 0.00% \$0				
5 6 <u>Bonus Depreciation</u> 7 Plant Additions	\$1,321,456				
 8 Less Capital Repairs Deduction 9 Plant Additions Net of Capital Repairs Deduction 	\$0 \$1,321,456	-			
10 11 Plant Additions Eligible for Bonus Depreciation 12 Plant Additions Eligible for Bonus Depreciation	<u>100.00%</u> \$1,321,456				
13 Bonus Depreciation rate 14 Bonus Depreciation rate 15	<u>50%</u> \$660,728	-			
16 Bonus Depreciation 17	\$660,728				
 <u>Remaining Tax Depreciation (Federal)</u> Plant Additions Less Capital Repairs Deduction 	\$1,321,456 \$0	\$1,321,456 \$0	\$1,321,456 \$0	\$1,321,456 \$0	\$1,321,456 \$0
21 Less Bonus Depreciation 22 Additions Subject to 20 YR MACRS Tax Depreciation	\$660,728 \$660,728	\$660,728 \$660,728	\$660,728 \$660,728	\$660,728 \$660,728	\$660,728 \$660,728
23 20 YR MACRS Tax Depreciation Rates 24 Remaining Tax Depreciation 25	<u>3.750%</u> \$24,777	7.219% \$47,698	<u>6.677%</u> \$44,117	<u>6.177%</u> \$40,813	<u>5.713%</u> \$37,747
26 <u>Remaining Tax Depreciation (State)</u> 27 Plant Additions	\$1,321,456	\$1,321,456	\$1,321,456	\$1,321,456	\$1,321,456
28 Less Capital Repairs Deduction 29 Additions Subject to 20 YR MACRS Tax Depreciation	\$0 \$1,321,456	\$0 \$1,321,456	\$0 \$1,321,456	\$0 \$1,321,456	\$0 \$1,321,456
30 20 YR MACRS Tax Depreciation Rates	3.750%	7.219%	6.677%	6.177%	5.713%
31 Remaining Tax Depreciation 32	\$49,555	\$95,396	\$88,234	\$81,626	\$75,495
33 Federal Tax Depreciation 34 State Tax Depreciation	\$685,505 \$49,555	\$47,698 \$95,396	\$44,117 \$88,234	\$40,813 \$81,626	\$37,747 \$75,495
of otale tax Depresation	ψ+9,000	ψ55,550	ψ00,20 4	ψ01,020	ψι 0,430

<u>Note</u>: Plant additions not subject to the capital repairs deduction may be subject to bonus depreciation. During 2008, Congress passed the Economic Stimulus Act of 2008 which established a 50% bonus depreciation deduction for certain eligible plant additions. Congress has passed further laws which have extended and

Period	Rate
January 1, 2007 to December 31, 2007	0%
January 1, 2008 to September 7, 2010	50%
September 8, 2010 to December 31, 2011	100%
January 1, 2012 to December 31, 2013	50%
January 1, 2014 to December 31, 2014	50%
January 1, 2015 to December 31, 2015	50%

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities Docket No DE 20-xxx Schedule DBS-AMH-1 Page 13 of 16

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities REP/VMP Revenue Requirement Calculation of REP Tax Depreciation 2016 - Per Tax Return Using Capital Repairs Tax Return Rate

		(a) CY 2016	(b) CY 2017	(c) CY 2018	(d) CY 2019
		<u></u>	<u></u>	<u> </u>	<u></u>
1	Capital Repairs Deduction				
2	Plant Additions	\$849,390			
3	Capital Repairs Deduction Rate	0.00%			
4	Capital Repairs Deduction	\$0			
5					
6	Bonus Depreciation				
7	Plant Additions	\$849,390			
8	Less Capital Repairs Deduction	\$0			
9	Plant Additions Net of Capital Repairs Deduction	\$849,390			
10					
11	Plant Additions Eligible for Bonus Depreciation	100.00%			
12	Plant Additions Eligible for Bonus Depreciation	\$849,390			
13	Bonus Depreciation rate	50%			
14	Bonus Depreciation rate	\$424,695			
15		* 40 4 00 5			
16	Bonus Depreciation	\$424,695			
17					
18	Remaining Tax Depreciation (Federal)	¢0.40.000	¢0.40.000	¢0.40.200	¢0.40.000
19	Plant Additions	\$849,390	\$849,390	\$849,390	\$849,390
20	Less Capital Repairs Deduction	\$0 \$404.005	\$0 ¢404.005	\$0 \$404.005	\$0 ¢404.005
21	Less Bonus Depreciation Additions Subject to 20 YR MACRS Tax Depreciation	\$424,695 \$424,695	\$424,695 \$424,695	\$424,695 \$424,695	\$424,695 \$424,695
	20 YR MACRS Tax Depreciation Rates	\$424,695 3.750%	\$424,695 7.219%	\$424,695 6.677%	\$424,695 6.177%
23 24	Remaining Tax Depreciation Rates	\$15.926	\$30.659	\$28,357	\$26,233
24 25		φ15,920	\$30,059	φ20,337	φ20,233
25	Remaining Tax Depreciation (State)				
20		\$849,390	\$849,390	\$849,390	\$849,390
28	Less Capital Repairs Deduction	φ040,000 \$0	φ0 4 0,000 \$0	φ0 4 0,000 \$0	φ040,000 \$0
	Additions Subject to 20 YR MACRS Tax Depreciation	\$849.390	\$849.390	\$849.390	\$849.390
30	20 YR MACRS Tax Depreciation Rates	3.750%	7.219%	6.677%	6.177%
31	Remaining Tax Depreciation	\$31,852	\$61,317	\$56,714	\$52,467
32		ψ01,00Z	ψ01,017	<i>400,114</i>	φ 0 Σ, - 101
33	Federal Tax Depreciation	\$440,621	\$30.659	\$28.357	\$26.233
34	State Tax Depreciation	\$31,852	\$61,317	\$56,714	\$52,467
34		\$31,00Z	<i>40.,011</i>	400,114	<i>402,401</i>

<u>Note</u>: Plant additions not subject to the capital repairs deduction may be subject to bonus depreciation. During 2008, Congress passed the Economic Stimulus Act of 2008 which established a 50% bonus depreciation deduction for certain eligible plant additions. Congress has passed further laws which have extended and changed the bonus depreciation rate at different periods of time. The bonus depreciation rates in effect since the start of the

Period	Rate
January 1, 2007 to December 31, 2007	0%
January 1, 2008 to September 7, 2010	50%
September 8, 2010 to December 31, 2011	100%
January 1, 2012 to December 31, 2013	50%
January 1, 2014 to December 31, 2014	50%
January 1, 2015 to December 31, 2015	50%
January 1, 2016 to December 31, 2016	50%

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities Docket No DE 20-xxx Schedule DBS-AMH-1 Page 14 of 16

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities REP/VMP Revenue Requirement Calculation of REP Tax Depreciation 2017 - Per Tax Return Using Capital Repairs Tax Return Rate

		(a) CY 2017	(b) CY 2018	(c) CY 2019
			<u></u>	<u></u>
1	Capital Repairs Deduction			
2	Plant Additions	\$1,699,030		
3	Capital Repairs Deduction Rate	0.00%		
4	Capital Repairs Deduction	\$0		
5		ψ°		
6	Bonus Depreciation			
7	Plant Additions	\$1,699,030		
8	Less Capital Repairs Deduction	\$0		
9	Plant Additions Net of Capital Repairs Deduction	\$1,699,030		
10				
11	Plant Additions Eligible for Bonus Depreciation	100.00%		
12	Plant Additions Eligible for Bonus Depreciation	\$1,699,030		
13	Bonus Depreciation rate	50%		
14	Bonus Depreciation rate	\$849,515		
15				
16	Bonus Depreciation	\$849,515		
17				
18	Remaining Tax Depreciation (Federal)			
19	Plant Additions	\$1,699,030	\$1,699,030	\$1,699,030
20	Less Capital Repairs Deduction	\$0	\$0	\$0
21	Less Bonus Depreciation	\$849,515	\$849,515	\$849,515
22	Additions Subject to 20 YR MACRS Tax Depreciation	\$849,515	. ,	\$849,515
23		3.750%	-	6.677%
24	Remaining Tax Depreciation	\$31,857	\$61,326	\$56,722
25				
26	Remaining Tax Depreciation (State)			
27		\$1,699,030	\$1,699,030	\$1,699,030
28	Less Capital Repairs Deduction	\$0	\$0	\$0
29	j	. , ,	\$1,699,030	. , ,
30	20 YR MACRS Tax Depreciation Rates	3.750%	7.219%	6.677%
31	Remaining Tax Depreciation	\$63,714	\$122,653	\$113,444
32				
	Federal Tax Depreciation	\$881,372	\$61,326	\$56,722
34	State Tax Depreciation	\$63,714	\$122,653	\$113,444

<u>Note</u>: Plant additions not subject to the capital repairs deduction may be

iuitions not subject to the capital repairs deduction may be	
Period	Rate
January 1, 2007 to December 31, 2007	0%
January 1, 2008 to September 7, 2010	50%
September 8, 2010 to December 31, 2011	100%
January 1, 2012 to December 31, 2013	50%
January 1, 2014 to December 31, 2014	50%
January 1, 2015 to December 31, 2015	50%
January 1, 2016 to December 31, 2016	50%
January 1, 2017 to December 31, 2017	50%

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities Docket No DE 20-xxx Schedule DBS-AMH-1 Page 15 of 16

(a)

(b)

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities REP/VMP Revenue Requirement Calculation of REP Tax Depreciation 2018 - Per Tax Return Using Capital Repairs Tax Return Rate

		<u>CY 2018</u>	<u>CY 2019</u>
		<u>CT 2016</u>	<u>CT 2019</u>
1	Capital Repairs Deduction		
2	Plant Additions	\$756,363	
3	Capital Repairs Deduction Rate	0.00%	
4	Capital Repairs Deduction	\$0	
5			
6	Bonus Depreciation		
7	Plant Additions	\$756,363	
8	Less Capital Repairs Deduction	\$0	
9	Plant Additions Net of Capital Repairs Deduction	\$756,363	
10			
11	Plant Additions Eligible for Bonus Depreciation	100.00%	
12	Plant Additions Eligible for Bonus Depreciation	\$756,363	
13	Bonus Depreciation rate	0%	
14	Bonus Depreciation rate	\$0	
15			
16	Bonus Depreciation	\$0	
17			
18	Remaining Tax Depreciation (Federal)		
19	Plant Additions	\$756,363	\$756,363
20	Less Capital Repairs Deduction	\$0	\$0
21	Less Bonus Depreciation	\$0	\$0
22	Additions Subject to 20 YR MACRS Tax Depreciation	\$756,363	\$756,363
23	20 YR MACRS Tax Depreciation Rates	3.750%	7.219%
24	Remaining Tax Depreciation	\$28,364	\$54,602
25			
26	Remaining Tax Depreciation (State)		
27	Plant Additions	\$756,363	\$756,363
28	Less Capital Repairs Deduction	\$0	\$0
29	Additions Subject to 20 YR MACRS Tax Depreciation	\$756,363	\$756,363
30	20 YR MACRS Tax Depreciation Rates	3.750%	7.219%
31	Remaining Tax Depreciation	\$28,364	\$54,602
32		<u> </u>	AF (000
33	Federal Tax Depreciation	\$28,364	\$54,602
34	State Tax Depreciation	\$28,364	\$54,602

<u>Note</u>: Plant additions not subject to the capital repairs deduction may be

Rate
0%
50%
100%
50%
50%
50%
50%
50%

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities Docket No DE 20-xxx Schedule DBS-AMH-1 Page 16 of 16

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities REP/VMP Revenue Requirement Calculation of REP Tax Depreciation 2019 - Per Tax Return Using Capital Repairs Tax Return Rate

		(a) <u>CY 2019</u>
1 2 3 4 5	<u>Capital Repairs Deduction</u> Plant Additions Capital Repairs Deduction Rate Capital Repairs Deduction	\$1,837,934 0.00% \$0
5 6 7 8 9 10	<u>Bonus Depreciation</u> Plant Additions Less Capital Repairs Deduction Plant Additions Net of Capital Repairs Deduction	\$1,837,934 \$0 \$1,837,934
10 11 12 13 14 15	Plant Additions Eligible for Bonus Depreciation Plant Additions Eligible for Bonus Depreciation Bonus Depreciation rate Bonus Depreciation rate	100.00% \$1,837,934 0% \$0
16 17	Bonus Depreciation	\$0
 18 19 20 21 22 23 24 25 	Remaining Tax Depreciation (Federal) Plant Additions Less Capital Repairs Deduction Less Bonus Depreciation Additions Subject to 20 YR MACRS Tax Depreciation 20 YR MACRS Tax Depreciation Rates Remaining Tax Depreciation	\$1,837,934 \$0 \$1,837,934 3.750% \$68,923
26 27 28 29 30 31 32 33 34	Remaining Tax Depreciation (State) Plant Additions Less Capital Repairs Deduction Additions Subject to 20 YR MACRS Tax Depreciation 20 YR MACRS Tax Depreciation Rates Remaining Tax Depreciation Federal Tax Depreciation State Tax Depreciation	\$1,837,934 \$0 \$1,837,934 3.750% \$68,923 \$68,923 \$68,923

Note: Plant additions not subject to the capital repairs deduction may be

datione net cabjeet to the capital repairs acadetion may be	
Period	Rate
January 1, 2007 to December 31, 2007	0%
January 1, 2008 to September 7, 2010	50%
September 8, 2010 to December 31, 2011	100%
January 1, 2012 to December 31, 2013	50%
January 1, 2014 to December 31, 2014	50%
January 1, 2015 to December 31, 2015	50%
January 1, 2016 to December 31, 2016	50%
January 1, 2017 to December 31, 2017	50%

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities Docket No DE 20-xxx Schedule DBS-AMH-2 Page 1 of 4

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities Procedure for Adjusting Distribution Rates for Capital Investment Allowance Calculation of Percentage Adjustment to Distribution Rates Based on Rates Effective July 1, 2019

			Current			
		Ba	se Distribution	Forecasted		Forecasted
Rate Class	Distribution Rate Component		<u>Rates</u>	<u>Units</u>		Revenues
			<u>(a)</u>	<u>(b)</u>		<u>(c)</u>
D	Customer Charge	\$	14.67	424,580	\$	6,228,589
	1st 250 kWh	\$	0.04898	93,096,123	\$	4,559,848
	Excess 250 kWh	\$	0.04898	172,328,192	\$	8,440,635
	Off Peak kWh	\$ \$ \$ \$	0.04229	1,473,801	\$	62,327
	Farm kWh		0.04623	1,003,095	\$	46,373
	D-6 kWh	\$	0.04308	800,855	\$	34,501
D-10	Customer Charge	\$	14.67	5,277	\$	928,963
	On Peak kWh	\$	0.10528	1,831,948	\$	192,868
	Off Peak kWh	\$	0.00145	3,434,988	\$	4,981
G-1	Customer Charge	\$	382.48	1,658	\$	634,152
	Demand Charge	\$	8.14	981,764	\$	7,991,559
	On Peak kWh	\$	0.00523	173,776,797	\$	908,853
	Off Peak kWh	\$	0.00156	215,597,942	\$	336,333
	Credit for High Voltage Delivery > 2.4 kv		(0.44)	354,650	\$	(119,955)
.		•	00 77	40.000	•	000.045
G-2	Customer Charge	\$	63.77	10,882	\$	693,945
	Demand Charge	\$	8.19	522,041	\$	4,275,516
	All kWh	\$	0.00205	144,526,523	\$	296,279
	Credit for High Voltage Delivery > 2.4 kv	\$	(0.44)	1,121		
G-3	Customer Charge	\$	14.67	68,040	\$	998,147
	All kWh	\$	0.04651	87,177,837	\$	4,054,641
	Minimum Charge > 25 kVA	\$	2.60			
М	Luminaire Charge				\$	998,836
	All kWh	\$	-	4,093,528	\$	-
т	Customer Charge	\$	14.67	11,565	\$	169,659
	All kWh	\$	0.04047	13,306,074	\$	538,497
V	Minimum Charge	\$	14.67	211	\$	3,095
	All kWh	\$	0.04782	326,060	<u>\$</u>	15,592
			Total Forecast	ed Revenues	\$	42,294,232

(a) Distribution Rates Effective July 1, 2019

(b) Company forecast provided by consulting company Business Economic Analysis Research (BEAR)

(c) Column (a) x column (b)

Luminaire forecasted revenues determined by attachmentment 5 of Settlement Agreement in Docket DE 16-383 line 32 on Bates 33

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities Docket No DE 20-xxx Revised Schedule DBS-AMH-2 Page 2 of 4

Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities REP/VMP Rate Design Procedure for Adjusting Distribution Rates for Capital Investment Allowance Calculation of Percentage Adjustment to Distribution Rates Rates Effective May 1, 2020

(1) Increase in Annual Revenue Requirement	\$210,503
(2) Forecasted Base Distribution Revenues	\$42,294,232
(3) Percentage of Adjustment to Distribution Rates	0.50%

(1) DBS-AMH-1 Page 3 Line 70

(2) Forecasted Base Distribution Revenues for the period of May 1, 2020 - April 30, 2021

(3) Line (1) ÷ Line (2)

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities Docket No DE 20-xxx Revised Schedule DBS-AMH-2 Page 3 of 4

Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities Calculation of Reliability Enhancement Program and Vegetation Management Plan Adjustment Factor Rates Effective May 1, 2020

(1)	CY 2019 O&M Expense Above Base O&M Expense	\$101,147
(2)	Final Balance of Reconciliation of CY 2018 Incremental O&M Expense Above Base O&M Expense	(\$26,163)
(3)	Reliability Enhancement Program and Vegetation Management Plan Expense	\$74,984
(4)	Estimated kWh deliveries May 1, 2020 - April 30, 2021	912,773,764
(5)	Reliability Enhancement Program and Vegetation Management Plan Adjustment Factor	\$0.00008

- (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 $(3) \div$ Line (4), truncated after 5 decimal places

Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities REP/VMP Rate Design Procedure for Adjusting Distribution Rates for Capital Investment Allowance & Incremental O&M Expense Rates Effective May 1, 2020

Rate Class	Distribution Rate Component	Current <u>Rates</u> (a)	Proposed May 1, 2020 Distribution % Increase/ <u>% (Decrease)</u> (b)	Proposed May 1, 2020 Base Distribution <u>Charges</u> (c)	Proposed May 1, 2020 REP/VMP O&M Adjustment <u>Factor</u> (d)	Proposed May 1, 2020 Total Distribution <u>Charges</u> (e)
D	Customer Charge All kWh 16 Hour Off Peak kWh Farm kWh D-6 kWh	\$14.67 \$0.04898 \$0.04229 \$0.04623 \$0.04308	0.50% 0.50% 0.50% 0.50% 0.50%	\$14.74 \$0.04922 \$0.04250 \$0.04646 \$0.04329	\$0.00008 \$0.00008 \$0.00008 \$0.00008	\$14.74 \$0.04930 \$0.04258 \$0.04654 \$0.04337
D-10	Customer Charge On Peak kWh Off Peak kWh	\$14.67 \$0.10528 \$0.00145	0.50% 0.50% 0.50%	\$14.74 \$0.10580 \$0.00145	\$0.00008 \$0.00008	\$14.74000 \$0.10588 \$0.00153
G-1	Customer Charge Demand Charge On Peak kWh Off Peak kWh Credit for High Voltage Delivery > 2.4 k	\$382.48 \$8.14 \$0.00523 \$0.00156 (\$0.44)	0.50% 0.50% 0.50% 0.50% 0.50%	\$384.39 \$8.18 \$0.00525 \$0.00156 (\$0.44)	\$0.00008 \$0.00008	\$384.39 \$8.18 \$0.00533 \$0.00164 (\$0.44)
G-2	Customer Charge Demand Charge All kWh Credit for High Voltage Delivery > 2.4 k	\$63.77 \$8.19 \$0.00205 (\$0.44)	0.50% 0.50% 0.50%	\$64.08 \$8.23 \$0.00206 (\$0.44)	\$0.00008	\$64.08 \$8.23 \$0.00214 (\$0.44)
G-3	Customer Charge All kWh Minimum Charge > 25 kVA	\$14.67 \$0.04651 \$2.60	0.50% 0.50% 0.50%	\$14.74 \$0.04674 \$2.61	\$0.00008	\$14.74 \$0.04682 \$2.61
М	Luminaire Charge Description HPS 4,000 HPS 9,600 HPS 27,500 HPS 9,600 (Post Top) HPS 9,600 (Post Top) HPS 27,500 Flood HPS 27,500 Flood HPS 27,500 Flood HPS 27,500 Flood HPS 27,500 Flood HPS 27,500 Flood Mercury Vapor 4,000 Mercury Vapor 4,000 Mercury Vapor 4,000 Mercury Vapor 22,000 Mercury Vapor 22,000 Mercury Vapor 63,000 Hotod <u>LED Fixtures</u> 30 Watt Pole Top 50 Watt Pole Top 130 Watt Pole Top 130 Watt Pole Top 50 Watt Pole Top 50 Watt Pole Top 50 Watt Flood 130 Watt Flood 130 Watt Flood 130 Watt Flood 50 Watt Pole Top 50 Watt Flood 50 Watt Flood 50 Watt Pole Top 50 Watt Flood 50 Watt Pole Top 50 Watt Flood 50 Watt Flood 50 Watt Pole Top 50 Watt Flood 50 Watt Flood	\$7.69 \$9.35 \$16.43 \$21.41 \$10.77 \$16.57 \$22.88 \$10.29 \$7.43 \$9.06 \$17.14 \$32.54 \$18.96 \$32.75 \$11.38 \$11.85 \$13.69 \$18.02 \$13.02 \$13.02 \$13.02 \$13.02 \$13.02 \$13.02 \$13.02	0.50% 0.50% 0.50% 0.50% 0.50% 0.50% 0.50% 0.50% 0.50% 0.50% 0.50% 0.50% 0.50% 0.50% 0.50% 0.50% 0.50% 0.50%	\$7.72 \$9.39 \$16.51 \$21.51 \$10.82 \$16.65 \$22.99 \$10.34 \$7.46 \$9.10 \$17.22 \$32.70 \$19.05 \$32.91 \$11.43 \$11.90 \$13.75 \$18.11 \$13.08 \$13.18 \$13.18		\$7.72 \$9.39 \$16.51 \$21.51 \$10.82 \$16.65 \$22.99 \$10.34 \$7.46 \$9.10 \$17.22 \$32.70 \$19.05 \$32.91 \$11.43 \$11.90 \$13.75 \$18.11 \$13.08 \$13.18 \$14.44 \$5.02
	50 Watt Barn Pole and Accessory Charge <u>Description</u> Pole -Wood Fiberglass - Direct Embedded Fiberglass w/Foundation <25 ft Fiberglass w/Foundation >=25 ft Metal Poles - Direct Embedded Metal Poles with Foundation All kWh	\$5.00 \$9.09 \$9.41 \$15.98 \$26.69 \$19.04 \$22.97 \$0.00000	0.50% 0.50% 0.50% 0.50% 0.50% 0.50% 0.50% 0.50%	\$5.02 \$9.14 \$9.46 \$16.06 \$26.82 \$19.14 \$23.08 \$0.00000	\$0.00008	\$5.02 \$9.14 \$9.46 \$16.06 \$26.82 \$19.14 \$23.08 \$0.00008
т	Customer Charge All kWh	\$14.67 \$0.04047	0.50% 0.50%	\$14.74 \$0.04067	\$0.00008	\$14.74 \$0.04075
V	Minimum Charge All kWh	\$14.67 \$0.04782	0.50% 0.50%	\$14.74 \$0.04805	\$0.00008	\$14.74 \$0.04813

(a) Distribution Rates Effective July 1, 2019
(b) Schedule DBS-2, Page 2, Line 3
(c) Column (a) x (1+Column (b))
(d) Schedule DBS-2, Page 3, Line 5
(e) Column (c) + Column (d)

Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities Reconciliation of CY 2018 O&M Expense

			Beginning Balance With Interest (a)	Revenue (b)	Ending Balance (c)	Balance Subject to Interest (d)	Effective Interest Rate (e)	Interest (f)	Cumulative Interest (g)
	1	May-19	\$432,479	\$38,146	\$394,333	\$413,406	5.50%	\$1,849	\$1,849
	2	June-19	\$396,181	\$36,593	\$359,588	\$377,885	5.50%	\$1,690	\$3,538
	3	July-19	\$361,278	\$44,910	\$316,368	\$338,823	5.50%	\$1,515	\$5,054
	4	August-19	\$317,883	\$47,472	\$270,411	\$294,147	5.25%	\$1,257	\$6,310
	5	September-19	\$271,668	\$39,430	\$232,238	\$251,953	5.25%	\$1,077	\$7,387
	6	October-19	\$233,314	\$34,582	\$198,732	\$216,023	5.00%	\$880	\$8,267
	7	November-19	\$199,612	\$34,015	\$165,597	\$182,605	4.75%	\$708	\$8,975
	8	December-19	\$166,305	\$39,473	\$126,832	\$146,569	4.75%	\$568	\$9,543
	9	January-20	\$127,400	\$41,988	\$85,412	\$106,406	4.75%	\$412	\$9,955
	10	February-20	\$85,824	\$37,799	\$48,025	\$66,925	4.75%	\$259	\$10,214
*	11	March-20	\$48,284	\$38,398	\$9,886	\$29,085	4.75%	\$113	\$10,327
*	12	April-20	\$9,999	\$36,131	(\$26,132)	(\$8,067)	4.75%	(\$31)	\$10,296
	13		(Over)/Unde	er Recovery:	(\$26,163)				

- (a) Line 1: Schedule DBS-2, Page 3, Line 3 in Docket DE 19-051
- (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) Column (d) x [(1 + Column (e)) ^ (1 ÷ 12) 1]
- (g) Prior month Column (g) + Current month Column (f)
- * Estimate

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities Docket No DE 20-xxx Schedule DBS-AMH-4 Page 1 of 1

Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities Bill Calculation

Usage 650 kWh

		May 1, 2020				
	Current	Proposed	Current	Proposed		
	Rates (a)	Rates (b)	Bill	Bill		
Customer Charge	\$14.67	\$14.74	\$14.67	\$14.74		
Distribution Charge						
All kWh	\$0.04950	\$0.04930	\$32.18	\$32.05		
Storm Recovery Adjustment	\$0.00000	\$0.00000	\$0.00	\$0.00		
Transmission Charge	\$0.02732	\$0.02732	\$17.76	\$17.76		
Stranded Cost Charge	(\$0.00106)	-\$0.00106	-\$0.69	-\$0.69		
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			\$68.32	\$68.26		
Energy Service Charge	\$0.07193	\$0.07193	<u>\$46.75</u>	<u>\$46.75</u>		
	Total Bill \$115.08					
\$ increase in 650 kW	h Total Reside	ntial Bill		-\$0.06		
% increase in 650 kWh Total Residential Bill						

(a) Rates effective March 1, 2020

(b) Rates proposed in this filing only and effective May 1, 2020

Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities Municipal Taxes as a Percentage of Net Plant

	12/31/2017	12/31/2018
1 Plant in Service, per Form 1, Page 200, Line 3 (+) Line 6 2 Depreciation Reserve, per Form 1, Page 200, Line 12 (+) Line 18 3 Net Plant	229,296 (79,789) 149,507	247,731 (93,624) 154,107
 4 Average Net Plant 5 Plant in Service 6 Depreciation Reserve 7 Net Plant 	213,227 (74,658) 138,569	238,514 (86,707) 151,807
8 Municipal Taxes, Form 1, Page 262, Line 1	4,478	4,730
9 % Municipal Taxes to Net Plant	3.23%	3.12%

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities Book Depreciation Calculation Using 2018 FERC Form 1 Data Filed April 18, 2019

	Depreciatio	on Expense	Depreciable Plant Balances		Average Depreciable Plant	Depreciation Rate
	12/31/2017	12/31/2018	12/31/2017	12/31/2018	·	
1 Distribution	5,304,849	5,463,619	199,161,361	215,580,549	207,370,955	2.63%
2 General	483,791	703,675	16,714,527	17,651,307	17,182,917	4.10%
3 Total - Granite	5,788,640	6,167,294	215,875,888	233,231,856	224,553,872	2.75%
4 Depreciation Expense per Form 1:						
5 FERC Form 1, Page 114						
6 Depreciation Expense (403) Line 6	5,788,640	6,167,294				
7 Depreciation Expense for ARO (403.1) Line 7	-	-				
8 Total per Form 1, Page 114	5,788,640	6,167,294				
9 FERC Form 1, Page 336						
10 Distribution (incl ARO) Line 8	5,304,849	5,463,619				
11 General Line 10	483,791	703,675				
12 Total per Form 1, Page 336	5,788,640	6,167,294				
12 Depresiable Plant Palanace per Form 1:						
13 Depreciable Plant Balances per Form 1: 14 FERC Form 1, Page 204-207						
15 Distribution Plant Page 207 Line 75	200.859.082	217,253,495				
5	, ,	, ,				
16 Land & Land Rights Page 207 Line 60	1,697,721	1,672,946				
17 Total	199,161,361	215,580,549				
18 General Plant Page 207 Line 99	18,334,899	19,271,679				
19 Land & Land Rights Page 207 Line 86	1,620,372	1,620,372				
20 Total	16,714,527	17,651,307				
21 Total, excluding Land & Land Rights	215,875,888	233,231,856				

Proposed Tariff Changes

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