

Comparison of Bad Debt Included in Current Rates with Actual Bad Debt

| Notes | Company | Metric | Bad Debt Included in Rates |  | Actual Bad Debt (see note A) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Effective Date | Amount Included | $\underline{2016}$ | $\underline{2017}$ | $\underline{2018}$ | $\underline{2019}$ |
| (B) | Abenaki | Bad Debt | 12/28/2018 | (C) |  |  |  | 0 |
|  | Aquarion | Bad Debt | 7/1/2012 | 24,000 | 5,072\| | 6,996 | 6,996 | 10,875 |
|  | Eversource | Bad Debt | 7/1/2019 | 2,528,567 |  |  |  |  |
| (B) | Hampstead | Bad Debt | 7/1/2019 | (C) |  |  |  |  |
|  | Liberty - Energy North | Bad Debt | 11/1/2018 | 1,505,283 |  |  |  | 1,680,771 |
|  | Liberty - Granite State | Bad Debt | 7/1/2020 | 178,526 |  |  |  |  |
| (B) | Lakes Region Water Company | Bad Debt | 8/12/2019 | 9,000 |  |  |  |  |
|  | Northern Utilities | Bad Debt | 5/1/2018 | 248,010 |  |  |  | 280,546 |
| (D) | Pennichuck Water Works | Bad Debt | 11/1/2020 | 35,377 |  |  |  |  |
|  | Pennichuck East Utility | Bad Debt | 2/24/2019 | 30,044 |  |  |  |  |
|  | Pittsfield Aqueduct Company | Bad Debt | 7/22/2014 | 7,887 | 2,638 | 6,864 | 2,082 | 4,097 |
|  | Unitil | Bad Debt | 7/1/2016 | 526,252 |  | 339,394 | 721,658 | 584,561 |

(A) Actual bad debt is shown only for years subsequent to effective date of current rates and, also, only if bad debt included in current rates was provided.
(B) Company has multiple tariffs, each covering one or more divisions. "Effective date" is for the tariff with the most recent effective date.
(C) This information is missing from the company's response to Staff 1-1
(D) Effective date is an estimate; PWW's permanent rates in DW 19-084 have not yet become effective.

Below is the data, submitted by each utility in response to Staff data request Set 1 in IR 20-089, used for the analysis above..

| Notes | Company | Type | Size | Metric | $\underline{2016}$ | $\underline{2017}$ | $\underline{2018}$ | $\underline{2019}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Abenaki | Water | Small | Bad Debt | 105 | 470 | 135 | 0 |
|  | Abenaki | Water | Small | Late Payment Charges | 0 | 0 | 0 | 0 |
|  | Abenaki | Water | Small | Applicable Revenue | 403,463 | 640,897 | 633,833 | 705,735 |
|  | Abenaki | Water | Small | Bad Debt / Revenue | 0.026\% | 0.073\% | 0.021\% | 0.000\% |
|  | Abenaki | Water | Small | Late Payment Charges / Revenue | 0.000\% | 0.000\% | 0.000\% | 0.000\% |
|  | Aquarion | Water | Large | Bad Debt | 5,072 | 6,996 | 6,996 | 10,875 |
|  | Aquarion | Water | Large | Late Payment Charges | 43,155 | 32,552 | 32,274 | 29,467 |
|  | Aquarion | Water | Large | Applicable Revenue | 7,461,833 | 7,544,652 | 7,497,755 | 7,226,513 |
|  | Aquarion | Water | Large | Bad Debt/Revenue | 0.068\% | 0.093\% | 0.093\% | 0.150\% |
|  | Aquarion | Water | Large | Late Payment Charges / Revenue | 0.578\% | 0.431\% | 0.430\% | 0.408\% |
|  | Eversource | Electric |  | Bad Debt | 2,550,869 | 2,346,347 | 2,234,202 | 2,354,833 |
| (1) | Eversource | Electric |  | Late Payment Charges | 2,289,536 | 2,627,082 | 959,162 | 1,902,287 |
| (2) | Eversource | Electric |  | Applicable Revenue | 348,483,631 | 346,953,015 | 349,839,116 | 355,934,505 |
|  | Eversource | Electric |  | Bad Debt/Revenue | 0.732\% | 0.676\% | 0.639\% | 0.662\% |
|  | Eversource | Electric |  | Late Payment Charges / Revenue | 0.657\% | 0.757\% | 0.274\% | 0.534\% |
|  | Hampstead | Water | Small | Bad Debt | 8,268 | 0 | 0 | 0 |
|  | Hampstead | Water | Small | Late Payment Charges | 39,580 | 41,621 | 38,620 | 38,074 |
|  | Hampstead | Water | Small | Applicable Revenue | 1,721,164 | 1,691,632 | 1,937,425 | 2,022,963 |
|  | Hampstead | Water | Small | Bad Debt / Revenue | 0.480\% | 0.000\% | 0.000\% | 0.000\% |
|  | Hampstead | Water | Small | Late Payment Charges / Revenue | 2.300\% | 2.460\% | 1.993\% | 1.882\% |
| (3) | Liberty - Energy North | Gas |  | Bad Debt | 1,505,283 | 1,082,081 | 1,141,159 | 1,680,771 |
|  | Liberty - Energy North | Gas |  | Late Payment Charges | 432,381 | 450,521 | 427,218 | 457,748 |
|  | Liberty - Energy North | Gas |  | Applicable Revenue | 66,736,663 | 71,147,958 | 81,959,489 | 86,463,777 |
|  | Liberty - Energy North | Gas |  | Bad Debt/Revenue | 2.256\% | 1.521\% | 1.392\% | 1.944\% |
|  | Liberty - Energy North | Gas |  | Late Payment Charges / Revenue | 0.648\% | 0.633\% | 0.521\% | 0.529\% |
|  | Liberty - Granite State | Electric |  | Bad Debt | 399,729 | 251,491 | 244,477 | 346,546 |
|  | Liberty - Granite State | Electric |  | Late Payment Charges | 40,439 | 49,924 | 47,828 | 56,029 |
|  | Liberty - Granite State | Electric |  | Applicable Revenue | 34,531,648 | 37,810,725 | 40,250,762 | 39,653,001 |
|  | Liberty - Granite State | Electric |  | Bad Debt / Revenue | 1.158\% | 0.665\% | 0.607\% | 0.874\% |
|  | Liberty - Granite State | Electric |  | Late Payment Charges / Revenue | 0.117\% | 0.132\% | 0.119\% | 0.141\% |
|  | Lakes Region Water Company | Water | Small | Bad Debt | -938 | 15,097 | 2,544 | 20,854 |
|  | Lakes Region Water Company | Water | Small | Late Payment Charges | 5,783 | 6,210 | 6,698 | 6,365 |
|  | Lakes Region Water Company | Water | Small | Applicable Revenue | 1,361,737 | 1,430,577 | 1,522,598 | 1,473,417 |
|  | Lakes Region Water Company | Water | Small | Bad Debt / Revenue | -0.069\% | 1.055\% | 0.167\% | 1.415\% |
|  | Lakes Region Water Company | Water | Small | Late Payment Charges / Revenue | 0.425\% | 0.434\% | 0.440\% | 0.432\% |
|  | Northern Utilities | Gas |  | Bad Debt | 173,011 | 191,961 | 341,047 | 280,546 |
|  | Northern Utilities | Gas |  | Late Payment Charges | 104,863 | 97,464 | 94,695 | 76,773 |
|  | Northern Utilities | Gas |  | Applicable Revenue | 32,814,080 | 34,251,433 | 38,449,788 | 40,408,217 |
|  | Northern Utilities | Gas |  | Bad Debt / Revenue | 0.527\% | 0.560\% | 0.887\% | 0.694\% |
|  | Northern Utilities | Gas |  | Late Payment Charges / Revenue | 0.320\% | 0.285\% | 0.246\% | 0.190\% |
|  | Pennichuck Water Works | Water | Large | Bad Debt | 62,324 | 41,763 | 48,493 | 35,377 |
|  | Pennichuck Water Works | Water | Large | Late Payment Charges | 0 | 0 | 0 | 0 |
|  | Pennichuck Water Works | Water | Large | Applicable Revenue | 30,922,560 | 29,584,048 | 32,390,671 | 32,280,395 |
|  | Pennichuck Water Works | Water | Large | Bad Debt / Revenue | 0.202\% | 0.141\% | 0.150\% | 0.110\% |
|  | Pennichuck Water Works | Water | Large | Late Payment Charges / Revenue | 0.000\% | 0.000\% | 0.000\% | 0.000\% |
|  | Pennichuck East Utility | Water | Large | Bad Debt | 30,044 | 23,351 | 15,892 | 25,101 |
|  | Pennichuck East Utility | Water | Large | Late Payment Charges | 0 | 0 | 0 | 0 |
|  | Pennichuck East Utility | Water | Large | Applicable Revenue | 7,410,951 | 7,197,307 | 8,724,455 | 8,819,088 |
|  | Pennichuck East Utility | Water | Large | Bad Debt / Revenue | 0.405\% | 0.324\% | 0.182\% | 0.285\% |
|  | Pennichuck East Utility | Water | Large | Late Payment Charges / Revenue | 0.000\% | 0.000\% | 0.000\% | 0.000\% |
|  | Pittsfield Aqueduct Company | Water | Small | Bad Debt | 2,638 | 6,864 | 2,082 | 4,097 |
|  | Pittsfield Aqueduct Company | Water | Small | Late Payment Charges | 0 | 0 | 0 | 0 |
|  | Pittsfield Aqueduct Company | Water | Small | Applicable Revenue | 788,926 | 792,092 | 791,559 | 774,537 |
|  | Pittsfield Aqueduct Company | Water | Small | Bad Debt / Revenue | 0.334\% | 0.867\% | 0.263\% | 0.529\% |
|  | Pittsfield Aqueduct Company | Water | Small | Late Payment Charges / Revenue | 0.000\% | 0.000\% | 0.000\% | 0.000\% |
|  | Unitil | Electric |  | Bad Debt | 409,505 | 339,394 | 721,658 | 584,561 |
|  | Unitil | Electric |  | Late Payment Charges | 397,636 | 264,291 | 343,959 | 275,537 |
|  | Unitil | Electric |  | Applicable Revenue | 53,501,664 | 57,499,226 | 60,442,266 | 58,955,650 |
|  | Unitil | Electric |  | Bad Debt / Revenue | 0.765\% | 0.590\% | 1.194\% | 0.992\% |
|  | Unitil | Electric |  | Late Payment Charges / Revenue | 0.743\% | 0.460\% | 0.569\% | 0.467\% |

## Notes:

(1) Eversource
(2) Eversource
(3) Liberty - Energy North

Commission suspension reduced LPC from Mar 2018 to Feb 2019.
Revenue used for calculation listed as 'Distribution' in Eversource schedule, excludes tracking mechanisms (ES, SCRM, TCAM, and SBC)
Bad debt related to distribution service only. Excluded data provided for commodity-related bad debt.

