



Docket No. DE 17-136  
Exhibit 19

Eversource Energy  
NHPUC Docket No. DE 17-136  
Attachment E3 (2019 Update)  
Page 1 of 12

PSNH d/b/a Eversource Energy  
2019 System Benefits Charge ("SBC") Calculation  
(\$ in 000's)

| Year   | EE<br>Total Budget | RGGI<br>Revenues | FCM<br>Revenues | Other<br>Revenues | Carryforward<br>with Interest | Current<br>Year<br>Interest | SBC<br>Requirement | Forecasted<br>Distribution<br>(MWh) | SBC Rate<br>EE Portion<br>(cents/kWh) | SBC Rate<br>EAP Portion<br>(cents/kWh) | SBC Rate<br>LBR Portion<br>(cents/kWh) | 2019<br>Total SBC Rate<br>(cents/kWh) |
|--------|--------------------|------------------|-----------------|-------------------|-------------------------------|-----------------------------|--------------------|-------------------------------------|---------------------------------------|----------------------------------------|----------------------------------------|---------------------------------------|
| Col. A | Col. B             | Col. C           | Col. D          | Col. E            | Col. F                        | Col. G                      | Col. H             | Col. I                              | Col. J                                | Col. K                                 | Col. L                                 | Col. M                                |
| 2019   | \$ 36,547          | \$ 1,868         | \$ 5,777        | \$ -              | \$ (386)                      | \$ (60)                     | \$ 29,348          | 7,852,026                           | 0.373                                 | 0.150                                  | 0.063                                  | 0.586                                 |

Col. A: Effective year (January 1, 2019 - December 31, 2019)  
Col. B: Company Forecast  
Col. C: Company Forecast  
Col. D: Company Forecast  
Col. E: Company Forecast  
Col. F: Page 2, Line 9 Col. N + Line 11 Col. O  
Col. G: Page 3, Line 11, Col. O  
Col. H: Col. B - Col. C - Col. D - Col. E - Col. F - Col. G  
Col. I: Company Forecast  
Col. J: (Col. H / Col. I) x 100  
Col. K: EAP Portion of SBC Rate  
Col. L: Page 4, Col. G  
Col. M: Col. J + Col. K + Col. L

**PSNH d/b/a Eversource Energy**  
**Energy Efficiency Expense & SBC Revenue Reconciliation**  
**January 1, 2018 to December 31, 2018**  
**(\$ in 000's)**

| Line | Description                         | Carryover<br>12/31/17 | Actual<br>Jan 2018 | Actual<br>Feb 2018 | Actual<br>Mar 2018 | Actual<br>Apr 2018 | Actual<br>May 2018 | Actual<br>Jun 2018 | Actual<br>Jul 2018 | Forecast<br>Aug 2018 | Forecast<br>Sep 2018 | Forecast<br>Oct 2018 | Forecast<br>Nov 2018 | Forecast<br>Dec 2018 | 2018<br>Total    |
|------|-------------------------------------|-----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|----------------------|----------------------|------------------|
|      | Col. A                              | Col. B                | Col. C             | Col. D             | Col. E             | Col. F             | Col. G             | Col. H             | Col. I             | Col. J               | Col. K               | Col. L               | Col. M               | Col. N               | Col. O           |
| 1    | SBC Revenues                        |                       | 1,740              | 1,837              | 1,726              | 1,751              | 1,503              | 1,695              | 1,943              | 2,003                | 1,688                | 1,708                | 1,690                | 1,909                | 21,193           |
| 2    | RGGI Revenues                       |                       | -                  | -                  | -                  | 419                | -                  | 483                | -                  | -                    | 483                  | -                    | -                    | 483                  | 1,869            |
| 3    | FCM Revenues                        |                       | 444                | 438                | 433                | 430                | 441                | 449                | 610                | 495                  | 495                  | 495                  | 495                  | 495                  | 5,719            |
| 4    | Other Revenues                      |                       | -                  | -                  | -                  | -                  | -                  | -                  | -                  | -                    | -                    | -                    | -                    | -                    | -                |
| 5    | <b>Total Revenues</b>               |                       | <b>2,184</b>       | <b>2,275</b>       | <b>2,159</b>       | <b>2,600</b>       | <b>1,944</b>       | <b>2,627</b>       | <b>2,553</b>       | <b>2,497</b>         | <b>2,666</b>         | <b>2,203</b>         | <b>2,185</b>         | <b>2,887</b>         | <b>28,781</b>    |
| 6    | Program Expenses                    |                       | 378                | 1,104              | 1,796              | 1,026              | 1,990              | 2,094              | 1,813              | 3,683                | 3,761                | 3,761                | 3,761                | 3,761                | 28,929           |
| 7    | <b>Total Program Expenses</b>       |                       | <b>378</b>         | <b>1,104</b>       | <b>1,796</b>       | <b>1,026</b>       | <b>1,990</b>       | <b>2,094</b>       | <b>1,813</b>       | <b>3,683</b>         | <b>3,761</b>         | <b>3,761</b>         | <b>3,761</b>         | <b>3,761</b>         | <b>28,929</b>    |
| 8    | Current Month (Over)/Under Recovery |                       | (1,806)            | (1,171)            | (363)              | (1,574)            | 46                 | (534)              | (740)              | 1,185                | 1,095                | 1,558                | 1,576                | 874                  |                  |
| 9    | Cumulative (Over)/Under Recovery    | 386                   | (1,420)            | (2,591)            | (2,954)            | (4,528)            | (4,482)            | (5,016)            | (5,756)            | (4,570)              | (3,476)              | (1,917)              | (341)                | 533                  |                  |
| 10   | Interest @ Prime Rate               |                       | 0.38%              | 0.38%              | 0.38%              | 0.40%              | 0.40%              | 0.40%              | 0.42%              | 0.42%                | 0.42%                | 0.42%                | 0.42%                | 0.42%                |                  |
| 11   | Interest on Deferral Balance        |                       | (2)                | (8)                | (10)               | (15)               | (18)               | (19)               | (22)               | (22)                 | (17)                 | (11)                 | (5)                  | 0                    | (148)            |
| 12   | <b>Monthly Sales (MWh)</b>          |                       | <b>756,620</b>     | <b>667,944</b>     | <b>627,520</b>     | <b>636,684</b>     | <b>546,614</b>     | <b>616,421</b>     | <b>706,414</b>     | <b>728,243</b>       | <b>613,972</b>       | <b>621,188</b>       | <b>614,641</b>       | <b>694,243</b>       | <b>7,830,504</b> |
| 13   | <b>EE SBC Rate</b>                  |                       | <b>0.275</b>       | <b>0.275</b>       | <b>0.275</b>       | <b>0.275</b>       | <b>0.275</b>       | <b>0.275</b>       | <b>0.275</b>       | <b>0.275</b>         | <b>0.275</b>         | <b>0.275</b>         | <b>0.275</b>         | <b>0.275</b>         |                  |

Line 1: (Line 12 x Line 13) / 100  
Line 2: Company Forecast  
Line 3: Company Forecast  
Line 4: Company Forecast  
Line 5: Sum of Lines 1 through Lines 4  
Line 6: Company Forecast  
Line 7: Sum of Line 6  
Line 8: Line 7 - Line 5  
Line 9: Prior month Line 9 + Current month Line 8  
Line 10: Prime Rate / 12  
Line 11: (Prior Month Line 9 + Current Month Line 9) / 2 x Line 10  
Line 12: Company Forecast  
Line 13: 2018 approved rate

PSNH d/b/a Eversource Energy  
Energy Efficiency Expense & SBC Revenue Reconciliation  
January 1, 2019 to December 31, 2019  
(\$ in 000's)

| Line | Description                         | Carryover<br>12/31/2018 | Forecast<br>Jan 2019 | Forecast<br>Feb 2019 | Forecast<br>Mar 2019 | Forecast<br>Apr 2019 | Forecast<br>May 2019 | Forecast<br>June 2019 | Forecast<br>Jul 2019 | Forecast<br>Aug 2019 | Forecast<br>Sep 2019 | Forecast<br>Oct 2019 | Forecast<br>Nov 2019 | Forecast<br>Dec 2019 | 2019<br>Total |
|------|-------------------------------------|-------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------|
|      | Col. A                              | Col. B                  | Col. C               | Col. D               | Col. E               | Col. F               | Col. G               | Col. H                | Col. I               | Col. J               | Col. K               | Col. L               | Col. M               | Col. N               | Col. O        |
| 1    | SBC Revenues                        |                         | 2,513                | 2,227                | 2,286                | 2,054                | 2,124                | 2,279                 | 2,578                | 2,585                | 2,182                | 2,176                | 2,173                | 2,463                | 27,639        |
| 2    | RGGI Revenues                       |                         | -                    | -                    | 467                  | -                    | -                    | 467                   | -                    | -                    | 467                  | -                    | -                    | 467                  | 1,868         |
| 3    | FCM Revenues                        |                         | 481                  | 481                  | 481                  | 481                  | 481                  | 481                   | 481                  | 481                  | 481                  | 481                  | 481                  | 481                  | 5,777         |
| 4    | Other Revenues                      |                         | -                    | -                    | -                    | -                    | -                    | -                     | -                    | -                    | -                    | -                    | -                    | -                    | -             |
| 5    | Total Revenues                      |                         | 2,996                | 2,709                | 3,234                | 2,536                | 2,606                | 3,227                 | 3,069                | 3,066                | 3,130                | 2,657                | 2,654                | 3,411                | 35,284        |
| 6    | Program Expenses                    |                         | 3,046                | 3,046                | 3,046                | 3,046                | 3,046                | 3,046                 | 3,046                | 3,046                | 3,046                | 3,046                | 3,046                | 3,046                | 36,547        |
| 7    | Total Program Expenses              |                         | 3,046                | 3,046                | 3,046                | 3,046                | 3,046                | 3,046                 | 3,046                | 3,046                | 3,046                | 3,046                | 3,046                | 3,046                | 36,547        |
| 8    | Current Month (Over)/Under Recovery |                         | 51                   | 337                  | (189)                | 511                  | 440                  | (182)                 | (14)                 | (20)                 | (85)                 | 388                  | 392                  | (365)                |               |
| 9    | Cumulative (Over)/Under Recovery    | 386                     | 437                  | 774                  | 585                  | 1,096                | 1,535                | 1,354                 | 1,340                | 1,319                | 1,235                | 1,623                | 2,015                | 1,649                |               |
| 10   | Interest @ Prime Rate               |                         | 0.42%                | 0.42%                | 0.42%                | 0.42%                | 0.42%                | 0.42%                 | 0.42%                | 0.42%                | 0.42%                | 0.42%                | 0.42%                | 0.42%                |               |
| 11   | Interest on Deferral Balance        |                         | 2                    | 3                    | 3                    | 4                    | 5                    | 6                     | 6                    | 6                    | 5                    | 6                    | 8                    | 8                    | 60            |
| 12   | Monthly Sales (MWh)                 |                         | 713,982              | 632,725              | 649,381              | 583,424              | 603,529              | 647,459               | 732,393              | 734,264              | 619,828              | 618,166              | 617,224              | 699,653              | 7,852,026     |
| 13   | EE SBC Rate                         |                         | 0.352                | 0.352                | 0.352                | 0.352                | 0.352                | 0.352                 | 0.352                | 0.352                | 0.352                | 0.352                | 0.352                | 0.352                |               |

Line 1: (Line 12 x Line 13) / 100  
Line 2: Page 1, Col. C  
Line 3: Page 1, Col. D  
Line 4: Page 1, Col. E  
Line 5: Sum of Lines 1 through Lines 4  
Line 6: Page 1, Col. B  
Line 7: Sum of Line 6  
Line 8: Line 7 - Line 5  
Line 9: Prior month Line 9 + Current month Line 8  
Line 10: Prime Rate / 12  
Line 11: (Prior Month Line 9 + Current Month Line 9) / 2 x Line 10  
Line 12: Company Forecast  
Line 13: Page 1, Col. J

**PSNH d/b/a Eversource Energy**  
**2019 System Benefits Charge Calculation (LBR Component)**  
**(\$ in 000's)**

| Year   | Forecasted<br>LBR<br>Revenue | Prior Year<br>Deferral<br>with Interest | Current<br>Year<br>Interest | Total<br>LBR<br>Revenue | Forecasted<br>Distribution<br>(MWH) | SBC Rate<br>LBR Portion<br>(cents/kWh) |
|--------|------------------------------|-----------------------------------------|-----------------------------|-------------------------|-------------------------------------|----------------------------------------|
| Col. A | Col. B                       | Col. C                                  | Col. D                      | Col. E                  | Col. F                              | Col. G                                 |
| 2019   | \$ 4,749                     | \$ 167                                  | \$ (5)                      | \$ 4,911                | 7,852,026                           | 0.063                                  |

Col. A: Effective year (January 1, 2019 - December 31, 2019)  
Col. B: Page 5, Line 21, Col. O / 1000  
Col. C: Page 6, Line 7, Col. N  
Col. D: Page 7, Line 6, Col. O  
Col. E: Col. B + Col. C + Col. D  
Col. F: Company Forecast  
Col. G: (Col. E \* 100) / Col. F

PSNH d/b/a Eversource Energy  
Monthly and Cumulative Savings and Lost Base Revenue  
January 1, 2019 to December 31, 2019

| Line                            | Description                                         | Cumulative<br>Annual kWh<br>Savings / Monthly<br>kWh Savings<br>12/31/2018 | Forecast   |            |            |            |            |            |            |            |            |            |            |            | 2019 Annual kWh and<br>Monthly kWh Savings | Cumulative<br>Annual kWh and<br>Monthly kWh<br>Savings |
|---------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------------------------------------|--------------------------------------------------------|
|                                 |                                                     |                                                                            | Jan 2019   | Feb 2019   | Mar 2019   | Apr 2019   | May 2019   | June 2019  | Jul 2019   | Aug 2019   | Sep 2019   | Oct 2019   | Nov 2019   | Dec 2019   |                                            |                                                        |
| 1                               | Residential Annual kWh Savings (2017, 2018, & 2019) | 26,186,394                                                                 | 1,362,311  | 1,362,311  | 1,362,311  | 1,362,311  | 1,362,311  | 1,362,311  | 1,362,311  | 1,362,311  | 1,362,311  | 1,362,311  | 1,362,311  | 1,362,311  | 16,347,730                                 | 42,534,124                                             |
| 2                               | C&I Annual kWh Savings (2017 & 2018)                | 94,971,106                                                                 | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | -                                          | 94,971,106                                             |
| 3                               | C&I Annual kWh Savings (2019)                       | -                                                                          | 5,717,706  | 5,717,706  | 5,717,706  | 5,717,706  | 5,717,706  | 5,717,706  | 5,717,706  | 5,717,706  | 5,717,706  | 5,717,706  | 5,717,706  | 5,717,706  | 68,612,477                                 | 68,612,477                                             |
| 4                               | C&I Monthly Installed kWh Savings*                  | -                                                                          | 725        | 725        | 725        | 725        | 725        | 725        | 725        | 725        | 725        | 725        | 725        | 725        | 8,703                                      | 8,703                                                  |
| Total 2019<br>Lost Base Revenue |                                                     |                                                                            |            |            |            |            |            |            |            |            |            |            |            |            |                                            |                                                        |
| 5                               | Monthly Residential Savings (2019)                  | -                                                                          | 56,763     | 56,763     | 56,763     | 56,763     | 56,763     | 56,763     | 56,763     | 56,763     | 56,763     | 56,763     | 56,763     | 56,763     | 56,763                                     | 56,763                                                 |
| 6                               | Cumulative Residential Savings                      | 2,182,200                                                                  | 2,238,962  | 2,352,488  | 2,466,014  | 2,579,540  | 2,693,066  | 2,806,592  | 2,920,118  | 3,033,644  | 3,147,170  | 3,260,696  | 3,374,221  | 3,487,747  | 3,601,273                                  | 3,714,799                                              |
| 7                               | Average Residential kWh Distribution Rate           | -                                                                          | 0.04025    | 0.04025    | 0.04025    | 0.04025    | 0.04025    | 0.04025    | 0.04025    | 0.04025    | 0.04025    | 0.04025    | 0.04025    | 0.04025    | 0.04025                                    | 0.04025                                                |
| 8                               | Total Lost Residential Revenue                      | -                                                                          | \$ 90,111  | \$ 94,680  | \$ 99,249  | \$ 103,818 | \$ 108,387 | \$ 112,956 | \$ 117,525 | \$ 122,095 | \$ 126,664 | \$ 131,233 | \$ 135,802 | \$ 140,371 | \$ 144,940                                 | \$ 149,509                                             |
| 9                               | Monthly C&I Savings (2017 & 2018)                   | 7,914,259                                                                  | 7,914,259  | 7,914,259  | 7,914,259  | 7,914,259  | 7,914,259  | 7,914,259  | 7,914,259  | 7,914,259  | 7,914,259  | 7,914,259  | 7,914,259  | 7,914,259  | 7,914,259                                  | 7,914,259                                              |
| 10                              | Average C&I kWh Distribution Rate                   | -                                                                          | 0.02767    | 0.02767    | 0.02767    | 0.02767    | 0.02767    | 0.02767    | 0.02767    | 0.02767    | 0.02767    | 0.02767    | 0.02767    | 0.02767    | 0.02767                                    | 0.02767                                                |
| 11                              | Lost C&I kWh Revenue                                | -                                                                          | \$ 218,966 | \$ 218,966 | \$ 218,966 | \$ 218,966 | \$ 218,966 | \$ 218,966 | \$ 218,966 | \$ 218,966 | \$ 218,966 | \$ 218,966 | \$ 218,966 | \$ 218,966 | \$ 218,966                                 | \$ 218,966                                             |
| 12                              | Monthly C&I Savings (2019)                          | -                                                                          | 238,238    | 238,238    | 238,238    | 238,238    | 238,238    | 238,238    | 238,238    | 238,238    | 238,238    | 238,238    | 238,238    | 238,238    | 238,238                                    | 238,238                                                |
| 13                              | Cumulative C&I Savings                              | -                                                                          | 238,238    | 714,713    | 1,191,189  | 1,667,664  | 2,144,140  | 2,620,615  | 3,097,091  | 3,573,567  | 4,050,042  | 4,526,518  | 5,002,993  | 5,479,469  | 5,955,945                                  | 6,432,421                                              |
| 14                              | Average C&I kWh Distribution Rate                   | -                                                                          | 0.01177    | 0.01177    | 0.01177    | 0.01177    | 0.01177    | 0.01177    | 0.01177    | 0.01177    | 0.01177    | 0.01177    | 0.01177    | 0.01177    | 0.01177                                    | 0.01177                                                |
| 15                              | Lost C&I kWh Revenue                                | -                                                                          | \$ 2,805   | \$ 8,414   | \$ 14,023  | \$ 19,633  | \$ 25,242  | \$ 30,851  | \$ 36,461  | \$ 42,070  | \$ 47,680  | \$ 53,289  | \$ 58,898  | \$ 64,508  | \$ 70,117                                  | \$ 75,727                                              |
| 16                              | Monthly C&I kWh Savings (2019)                      | -                                                                          | 363        | 363        | 363        | 363        | 363        | 363        | 363        | 363        | 363        | 363        | 363        | 363        | 363                                        | 363                                                    |
| 17                              | Cumulative Monthly C&I kWh Savings                  | -                                                                          | 363        | 1,088      | 1,813      | 2,538      | 3,263      | 3,988      | 4,713      | 5,438      | 6,163      | 6,888      | 7,613      | 8,338      | 9,063                                      | 9,788                                                  |
| 18                              | Average C&I Demand Rate                             | -                                                                          | 6.42       | 6.42       | 6.42       | 6.42       | 6.42       | 6.42       | 6.42       | 6.42       | 6.42       | 6.42       | 6.42       | 6.42       | 6.42                                       | 6.42                                                   |
| 19                              | Lost C&I Demand Revenue                             | -                                                                          | \$ 2,327   | \$ 6,981   | \$ 11,635  | \$ 16,289  | \$ 20,943  | \$ 25,597  | \$ 30,251  | \$ 34,905  | \$ 39,559  | \$ 44,213  | \$ 48,867  | \$ 53,521  | \$ 58,175                                  | \$ 62,829                                              |
| 20                              | Total Lost C&I kWh and Demand Revenue               | -                                                                          | \$ 224,098 | \$ 234,361 | \$ 244,625 | \$ 254,888 | \$ 265,152 | \$ 275,415 | \$ 285,679 | \$ 295,942 | \$ 306,206 | \$ 316,469 | \$ 326,733 | \$ 336,996 | \$ 347,259                                 | \$ 357,523                                             |
| 21                              | Total Lost Revenue                                  | -                                                                          | \$ 314,208 | \$ 329,041 | \$ 343,874 | \$ 358,707 | \$ 373,539 | \$ 388,372 | \$ 403,204 | \$ 418,037 | \$ 432,869 | \$ 447,702 | \$ 462,534 | \$ 477,367 | \$ 492,199                                 | \$ 507,032                                             |

Lines 1-4: Company Forecast  
Line 5: Line 1 / 24  
Line 6: Prior Month Line 6 + Current Month Line 5  
Line 7: Page 8, Column 8  
Line 8: Line 6 x Line 7  
Line 9: Line 1, Column B / 12  
Line 10: Page 8, Column 8  
Line 11: Line 9 x Line 10  
Line 12: Line 3 / 24  
Line 13: Prior Month Line 13 + Current Month Line 12  
Line 14: Page 8, Column 7  
Line 15: Line 13 x Line 14  
Line 16: Line 4 / 12  
Line 17: Prior Month Line 17 + Current Month Line 16  
Line 18: Page 8, Column 6  
Line 19: Line 17 x Line 18  
Line 20: Line 11 + Line 15 + Line 19  
Line 21: Line 8 + Line 20

**PSNH d/b/a Eversource Energy  
Lost Base Revenue Reconciliation  
January 1, 2018 to December 31, 2018  
(\$ in 000's)**

| Line | Description                                            | Actual<br>Carryover<br>12/31/2017 | Actual<br>Jan 2018 | Actual<br>Feb 2018 | Actual<br>Mar 2018 | Actual<br>Apr 2018 | Actual<br>May 2018 | Actual<br>Jun 2018 | Actual<br>Jul 2018 | Forecast<br>Aug 2018 | Forecast<br>Sep 2018 | Forecast<br>Oct 2018 | Forecast<br>Nov 2018 | Forecast<br>Dec 2018 | 2018<br>Total |
|------|--------------------------------------------------------|-----------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------|
|      | Col. A                                                 | Col. B                            | Col. C             | Col. D             | Col. E             | Col. F             | Col. G             | Col. H             | Col. I             | Col. J               | Col. K               | Col. L               | Col. M               | Col. N               | Col. O        |
| 1    | Revenue Recovery                                       |                                   | 130                | 200                | 188                | 191                | 164                | 185                | 212                | 218                  | 184                  | 186                  | 184                  | 208                  | 2,252         |
| 2    | Lost Revenues                                          |                                   | 135                | 140                | 153                | 161                | 171                | 188                | 198                | 213                  | 227                  | 244                  | 261                  | 277                  | 2,367         |
| 3    | Current Month (Over)/Under Recovery                    |                                   | 5                  | (61)               | (36)               | (30)               | 7                  | 3                  | (14)               | (6)                  | 43                   | 58                   | 76                   | 69                   | 116           |
| 4    | Cumulative (Over)/Under Recovery                       | 52                                | 57                 | (4)                | (40)               | (70)               | (62)               | (59)               | (73)               | (79)                 | (36)                 | 22                   | 98                   | 167                  |               |
| 5    | Interest @ Prime Rate                                  |                                   | 0.38%              | 0.38%              | 0.38%              | 0.40%              | 0.40%              | 0.40%              | 0.42%              | 0.42%                | 0.42%                | 0.42%                | 0.42%                | 0.42%                |               |
| 6    | Interest on Deferral Balance                           |                                   | 0                  | 0                  | (0)                | (0)                | (0)                | (0)                | (0)                | (0)                  | (0)                  | (0)                  | 0                    | 1                    | (1)           |
| 7    | Cummulative (Over)/Under Recovery Incl Carrying Charge |                                   | 57                 | (4)                | (39)               | (70)               | (63)               | (60)               | (74)               | (80)                 | (37)                 | 21                   | 97                   | 167                  |               |
| 8    | Monthly Sales (MWh)                                    |                                   | 756,620            | 667,944            | 627,520            | 636,684            | 546,614            | 616,421            | 706,414            | 728,243              | 613,972              | 621,188              | 614,641              | 694,243              | 7,830,504     |
| 9    | SBC Rate (LBR Component)                               |                                   | 0.030              | 0.030              | 0.030              | 0.030              | 0.030              | 0.030              | 0.030              | 0.030                | 0.030                | 0.030                | 0.030                | 0.030                |               |

Line 1 (Line 8 x Line 9) / 100  
Line 2 Company Forecast  
Line 3: Line 2 - Line 1  
Line 4 Prior month Line 4 + Current month Line 3  
Line 5 Prime Rate / 12  
Line 6 (Prior Month Line 4 + Current Month Line 4) / 2 x Line 5  
Line 7 Line 4 + Line 6  
Line 8 Company Actuals and Forecast  
Line 9 Approved Rates

000006

**PSNH d/b/a Eversource Energy**  
**Lost Base Revenue Reconciliation**  
**January 1, 2019 to December 31, 2019**  
**(\$ in 000's)**

| Line | Description                                            | Forecast<br>Carryover<br>12/31/2018 | Forecast<br>Jan 2019 | Forecast<br>Feb 2019 | Forecast<br>Mar 2019 | Forecast<br>Apr 2019 | Forecast<br>May 2019 | Forecast<br>Jun 2019 | Forecast<br>Jul 2019 | Forecast<br>Aug 2019 | Forecast<br>Sep 2019 | Forecast<br>Oct 2019 | Forecast<br>Nov 2019 | Forecast<br>Dec 2019 | 2019<br>Total |
|------|--------------------------------------------------------|-------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------|
|      | Col. A                                                 | Col. B                              | Col. C               | Col. D               | Col. E               | Col. F               | Col. G               | Col. H               | Col. I               | Col. J               | Col. K               | Col. L               | Col. M               | Col. N               | Col. O        |
| 1    | Revenue Recovery                                       |                                     | 450                  | 399                  | 409                  | 368                  | 380                  | 408                  | 461                  | 463                  | 390                  | 389                  | 389                  | 441                  | 4,947         |
| 2    | Lost Revenues                                          |                                     | 314                  | 329                  | 344                  | 359                  | 374                  | 388                  | 403                  | 418                  | 433                  | 448                  | 463                  | 477                  | 4,749         |
| 3    | Current Month (Over)/Under Recovery                    |                                     | (136)                | (70)                 | (65)                 | (9)                  | (7)                  | (20)                 | (58)                 | (45)                 | 42                   | 58                   | 74                   | 37                   | (197)         |
| 4    | Cumulative (Over)/Under Recovery                       | 167                                 | 31                   | (38)                 | (104)                | (113)                | (119)                | (139)                | (197)                | (242)                | (199)                | (141)                | (67)                 | (31)                 |               |
| 5    | Interest @ Prime Rate                                  |                                     | 0.42%                | 0.42%                | 0.42%                | 0.42%                | 0.42%                | 0.42%                | 0.42%                | 0.42%                | 0.42%                | 0.42%                | 0.42%                | 0.42%                |               |
| 6    | Interest on Deferral Balance                           |                                     | 0                    | (0)                  | (0)                  | (0)                  | (0)                  | (1)                  | (1)                  | (1)                  | (1)                  | (1)                  | (0)                  | (0)                  | (5)           |
| 7    | Cummulative (Over)/Under Recovery Incl Carrying Charge |                                     | 32                   | (38)                 | (104)                | (113)                | (120)                | (140)                | (199)                | (244)                | (203)                | (145)                | (72)                 | (36)                 |               |
| 8    | Monthly Sales (MWh)                                    |                                     | 713,982              | 632,725              | 649,381              | 583,424              | 603,529              | 647,459              | 732,393              | 734,264              | 619,828              | 618,166              | 617,224              | 699,653              | 7,852,026     |
| 9    | SBC Rate (LBR Component)                               |                                     | 0.063                | 0.063                | 0.063                | 0.063                | 0.063                | 0.063                | 0.063                | 0.063                | 0.063                | 0.063                | 0.063                | 0.063                |               |

Line 1 (Line 8 x Line 9) / 100  
Line 2 Page 5, Line 21 / 1000  
Line 3 Line 2 - Line 1  
Line 4 Prior month Line 4 + Current month Line 3  
Line 5 Prime Rate / 12  
Line 6 (Prior Month Line 4 + Current Month Line 4) / 2 x Line 5  
Line 7 Line 4 + Line 6  
Line 8 Company Forecast  
Line 9 Company Forecast

Eversource  
Calculation of Forecasted Average Distribution Rate for Lost Revenue  
Based on Actual Billing Determinants and Distribution Rates\*

|                                  | (1)                                             | (2)                                            | (3) = (1) + (2)                               | (4)                          | (5)                           | (6) = (1) + (4)                                            | (7) = (2) / (5)                                                           | (8) = (3) / (5)                                                           |
|----------------------------------|-------------------------------------------------|------------------------------------------------|-----------------------------------------------|------------------------------|-------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------|
|                                  | <b>For the Period 07/01/17 Through 06/30/18</b> |                                                |                                               |                              |                               |                                                            |                                                                           |                                                                           |
| <u>Rate Class</u>                | <u>Demand</u><br><u>Charges</u>                 | <u>Revenue</u><br><u>kWh</u><br><u>Charges</u> | <u>Total Demand</u><br><u>and kWh Charges</u> | <u>Delivery</u><br><u>kW</u> | <u>Delivery</u><br><u>kWh</u> | <u>Average</u><br><u>Distribution Rate</u><br><u>\$/kW</u> | <u>Average</u><br><u>Distribution Rate</u><br><u>\$/kWh<sup>(a)</sup></u> | <u>Average</u><br><u>Distribution Rate</u><br><u>\$/kWh<sup>(b)</sup></u> |
| <b>Residential</b>               | \$ -                                            | \$ 126,308,907                                 | \$ 126,308,907                                | \$ -                         | 3,138,357,008                 | N/A                                                        | N/A                                                                       | \$ 0.04025                                                                |
| General Service Rate G           | \$35,256,059                                    | \$ 38,175,341                                  | \$ 73,431,400                                 | 4,046,223                    | 1,703,273,539                 | \$ 9.43                                                    | \$ 0.02241                                                                | \$ 0.04311                                                                |
| Primary General Service Rate GV  | \$23,010,148                                    | \$ 9,812,649                                   | \$ 32,822,797                                 | 4,251,134                    | 1,656,083,534                 | \$ 2.31                                                    | \$ 0.00593                                                                | \$ 0.01982                                                                |
| Large General Service Rate LG    | \$13,899,519                                    | \$ 5,462,448                                   | \$ 19,361,967                                 | 2,947,989                    | 1,180,885,664                 | \$ 1.85                                                    | \$ 0.00463                                                                | \$ 0.01640                                                                |
| <b>Commercial and Industrial</b> | \$72,165,726                                    | \$ 53,450,438                                  | \$ 125,616,164                                | 11,245,346                   | 4,540,242,737                 | \$ 6.42                                                    | \$ 0.01177                                                                | \$ 0.02767                                                                |

\* Excludes the outdoor lighting rates (Rate OL and Rate EOL), the Customer/Meter charge revenue from each rate, and the on/off peak kWh associated with Rate B >= 115 kV under Rate LG.

(a) For 2019 C&I Savings

(b) For 2017 and 2018 C&I Savings

**Bill Impacts of Changes in System Benefits Charge - PSNH d/b/a Eversource Energy**

|                                                                       | Current Rates* | 2019        |
|-----------------------------------------------------------------------|----------------|-------------|
| System Benefits Charge (\$/kWh)                                       | \$ 0.00455     | \$ 0.00586  |
| <u>Bill per month, including PSNH default energy service</u>          |                |             |
| Residential Rate R (625 kWh/month)                                    | \$ 126.25      | \$ 127.07   |
| General Service Rate G, three-phase service (40 kW, 10,000 kWh/month) | \$ 1,869.73    | \$ 1,882.78 |
| <u>Change from previous rate level - \$ per month</u>                 |                |             |
| Residential Rate R (625 kWh/month)                                    |                | \$ 0.82     |
| General Service Rate G, three-phase service (40 kW, 10,000 kWh/month) |                | \$ 13.05    |
| <u>Change from previous rate level - %</u>                            |                |             |
| Residential Rate R (625 kWh/month)                                    |                | 0.6%        |
| General Service Rate G, three-phase service (40 kW, 10,000 kWh/month) |                | 0.7%        |

\* Stated at Eversource's rate levels effective August 1, 2018 - January 31, 2019

**Eversource**  
**Calculation of Distribution Revenue at the Rate Levels in Effect July 2017 - June 2018**  
**Based on Billing Determinants for the Twelve Months Ending June 2018**

| Residential Rate R                     |                 |                                  |             |               |                                 |             |               |                            |                |
|----------------------------------------|-----------------|----------------------------------|-------------|---------------|---------------------------------|-------------|---------------|----------------------------|----------------|
| Rate                                   | Source          | July 1, 2017 - December 31, 2017 |             |               | January 1, 2018 - June 30, 2018 |             |               | July 2017 - Jun 2018 Total |                |
|                                        |                 | Units                            | Rate/Charge | Revenue       | Units                           | Rate/Charge | Revenue       | Units                      | Revenue        |
| Standard                               | Customer Charge | 2,618,086                        | \$ 12.64    | \$ 33,092,607 | 2,630,086                       | \$ 12.69    | \$ 33,375,791 | 5,248,172                  | \$ 66,468,398  |
|                                        | All kWh         | 1,488,583,049                    | \$ 0.04125  | \$ 61,404,051 | 1,519,610,226                   | \$ 0.04141  | \$ 62,927,059 | 3,008,193,275              | \$ 124,331,110 |
| Uncontrolled Water Heating             | Customer Charge | 259,829                          | \$ 4.45     | \$ 1,156,239  | 257,056                         | \$ 4.47     | \$ 1,149,040  | 516,885                    | \$ 2,305,279   |
|                                        | All kWh         | 42,811,188                       | \$ 0.02022  | \$ 865,642    | 51,317,728                      | \$ 0.02030  | \$ 1,041,750  | 94,128,916                 | \$ 1,907,392   |
| Controlled Water Heating               | Customer Charge | 1,560                            | \$ 7.85     | \$ 12,246     | 1,511                           | \$ 7.88     | \$ 11,907     | 3,071                      | \$ 24,153      |
|                                        | All kWh         | 257,549                          | \$ 0.00120  | \$ 309        | 303,863                         | \$ 0.00120  | \$ 365        | 561,412                    | \$ 674         |
| LCS - Radio-controlled & 8 Hour Switch | Customer Charge | 20,593                           | \$ 9.07     | \$ 186,779    | 20,563                          | \$ 9.11     | \$ 187,329    | 41,156                     | \$ 374,107     |
|                                        | All kWh         | 10,126,170                       | \$ 0.00120  | \$ 12,151     | 24,276,216                      | \$ 0.00120  | \$ 29,131     | 34,402,386                 | \$ 41,283      |
| LCS - 8 Hour No Switch                 | Customer Charge | 634                              | \$ 7.85     | \$ 4,977      | 617                             | \$ 7.88     | \$ 4,862      | 1,251                      | \$ 9,839       |
|                                        | All kWh         | 129,713                          | \$ 0.00120  | \$ 156        | 226,656                         | \$ 0.00120  | \$ 272        | 356,369                    | \$ 428         |
| LCS - 10,11 Hour Switch                | Customer Charge | 30                               | \$ 9.07     | \$ 272        | 30                              | \$ 9.11     | \$ 273        | 60                         | \$ 545         |
|                                        | All kWh         | 9,274                            | \$ 0.02438  | \$ 226        | 7,663                           | \$ 0.02448  | \$ 188        | 16,937                     | \$ 414         |
| LCS - 10,11 Hour No Switch             | Customer Charge | 601                              | \$ 7.85     | \$ 4,718      | 579                             | \$ 7.88     | \$ 4,563      | 1,180                      | \$ 9,280       |
|                                        | All kWh         | 120,394                          | \$ 0.02438  | \$ 2,935      | 153,037                         | \$ 0.02448  | \$ 3,746      | 273,431                    | \$ 6,682       |
| Time of Day                            | Customer Charge | 221                              | \$ 29.35    | \$ 6,486      | 231                             | \$ 29.47    | \$ 6,808      | 452                        | \$ 13,294      |
|                                        | On Peak kWh     | 70,792                           | \$ 0.13183  | \$ 9,333      | 83,664                          | \$ 0.13235  | \$ 11,073     | 154,456                    | \$ 20,405      |
|                                        | Off Peak kWh    | 114,867                          | \$ 0.00192  | \$ 221        | 154,959                         | \$ 0.00193  | \$ 299        | 269,826                    | \$ 520         |
| Total Residential                      | Customer/Meter  | 2,901,554                        |             | \$ 34,464,324 | 2,910,673                       |             | \$ 34,740,573 | 5,812,227                  | \$ 69,204,896  |
|                                        | Demand          | -                                |             | -             | -                               |             | -             | -                          | -              |
|                                        | kWh             | 1,542,222,996                    |             | \$ 62,295,023 | 1,596,134,012                   |             | \$ 64,013,883 | 3,138,357,008              | \$ 126,308,907 |
|                                        |                 |                                  |             | \$ 96,759,347 |                                 |             | \$ 98,754,456 |                            | \$ 195,513,803 |

| General Service Rate G                 |                              |                                  |             |               |                                 |             |               |                            |               |
|----------------------------------------|------------------------------|----------------------------------|-------------|---------------|---------------------------------|-------------|---------------|----------------------------|---------------|
| Rate                                   | Source                       | July 1, 2017 - December 31, 2017 |             |               | January 1, 2018 - June 30, 2018 |             |               | July 2017 - Jun 2018 Total |               |
|                                        |                              | Units                            | Rate/Charge | Revenue       | Units                           | Rate/Charge | Revenue       | Units                      | Revenue       |
| Standard                               | Single Phase Customer Charge | 335,447                          | \$ 14.83    | \$ 4,974,679  | 335,734                         | \$ 14.89    | \$ 4,999,079  | 671,181                    | \$ 9,973,758  |
|                                        | Three Phase Customer Charge  | 118,192                          | \$ 29.64    | \$ 3,503,211  | 118,793                         | \$ 29.76    | \$ 3,535,280  | 236,985                    | \$ 7,038,491  |
|                                        | Demand Charge > 5 kW         | 2,112,374                        | \$ 8.69     | \$ 18,356,530 | 1,923,148                       | \$ 8.72     | \$ 16,769,854 | 4,035,522                  | \$ 35,126,384 |
|                                        | First 500 kWh Charge         | 133,751,554                      | \$ 0.06959  | \$ 9,307,771  | 253,196,980                     | \$ 0.06986  | \$ 17,688,341 | 386,948,534                | \$ 26,996,112 |
|                                        | Next 1,000 kWh Charge        | 141,163,171                      | \$ 0.01724  | \$ 2,433,653  | 123,004,126                     | \$ 0.01731  | \$ 2,129,201  | 264,167,297                | \$ 4,562,854  |
|                                        | All Additional kWh Charge    | 574,696,563                      | \$ 0.00610  | \$ 3,505,649  | 463,624,816                     | \$ 0.00612  | \$ 2,837,384  | 1,038,321,379              | \$ 6,343,033  |
| Time of Day                            | Single Phase Customer Charge | 106                              | \$ 38.42    | \$ 4,073      | 93                              | \$ 38.57    | \$ 3,587      | 199                        | \$ 7,660      |
|                                        | Three Phase Customer Charge  | 129                              | \$ 54.90    | \$ 7,082      | 131                             | \$ 55.12    | \$ 7,221      | 260                        | \$ 14,303     |
|                                        | Demand Charge                | 6,743                            | \$ 12.10    | \$ 81,590     | 3,958                           | \$ 12.15    | \$ 48,085     | 10,701                     | \$ 129,675    |
|                                        | On peak kWh                  | 184,607                          | \$ 0.04882  | \$ 9,013      | 126,879                         | \$ 0.04901  | \$ 6,218      | 311,486                    | \$ 15,231     |
|                                        | Off peak kWh                 | 311,687                          | \$ 0.00765  | \$ 2,384      | 222,094                         | \$ 0.00768  | \$ 1,706      | 533,781                    | \$ 4,090      |
| Space Heating                          | Meter Charge                 | 2,533                            | \$ 2.97     | \$ 7,523      | 2,509                           | \$ 2.98     | \$ 7,477      | 5,042                      | \$ 15,000     |
|                                        | All kWh                      | 1,981,927                        | \$ 0.03413  | \$ 67,643     | 3,212,845                       | \$ 0.03426  | \$ 110,072    | 5,194,772                  | \$ 177,715    |
| Uncontrolled Water Heating             | Customer Charge              | 7,772                            | \$ 4.45     | \$ 34,585     | 7,666                           | \$ 4.47     | \$ 34,267     | 15,438                     | \$ 68,852     |
|                                        | All kWh                      | 1,557,242                        | \$ 0.02022  | \$ 31,487     | 1,861,383                       | \$ 0.02030  | \$ 37,786     | 3,418,625                  | \$ 69,274     |
| Controlled Water Heating               | Customer Charge              | -                                | \$ 7.85     | \$ -          | -                               | \$ 7.88     | \$ -          | -                          | \$ -          |
|                                        | All kWh                      | -                                | \$ 0.00120  | \$ -          | -                               | \$ 0.00120  | \$ -          | -                          | \$ -          |
| LCS - Radio-controlled & 8 Hour Switch | Customer Charge              | 1,165                            | \$ 9.07     | \$ 10,567     | 1,154                           | \$ 9.11     | \$ 10,513     | 2,319                      | \$ 21,079     |
|                                        | All kWh                      | 1,322,828                        | \$ 0.00120  | \$ 1,587      | 2,910,378                       | \$ 0.00120  | \$ 3,492      | 4,233,206                  | \$ 5,080      |
| LCS - 8 Hour No Switch                 | Customer Charge              | 41                               | \$ 7.85     | \$ 322        | 36                              | \$ 7.88     | \$ 284        | 77                         | \$ 606        |
|                                        | All kWh                      | 31,039                           | \$ 0.00120  | \$ 37         | 36,759                          | \$ 0.00120  | \$ 44         | 67,798                     | \$ 81         |
| LCS - 10,11 Hour Switch                | Customer Charge              | -                                | \$ 9.07     | \$ -          | -                               | \$ 9.11     | \$ -          | -                          | \$ -          |
|                                        | All kWh                      | -                                | \$ 0.02438  | \$ -          | -                               | \$ 0.02448  | \$ -          | -                          | \$ -          |
| LCS - 10,11 Hour No Switch             | Customer Charge              | 12                               | \$ 7.85     | \$ 94         | 12                              | \$ 7.88     | \$ 95         | 24                         | \$ 189        |
|                                        | All kWh                      | 57,360                           | \$ 0.02438  | \$ 1,398      | 19,300                          | \$ 0.02448  | \$ 472        | 76,660                     | \$ 1,871      |
| Total General Service                  | Customer/Meter               | 465,397                          |             | \$ 8,542,136  | 466,128                         |             | \$ 8,597,802  | 931,525                    | \$ 17,139,937 |
|                                        | Demand                       | 2,119,117                        |             | \$ 18,438,120 | 1,927,106                       |             | \$ 16,817,939 | 4,046,223                  | \$ 35,256,059 |
|                                        | kWh                          | 855,057,978                      |             | \$ 15,360,623 | 848,215,561                     |             | \$ 22,814,718 | 1,703,273,539              | \$ 38,175,341 |
|                                        |                              |                                  |             | \$ 42,340,879 |                                 |             | \$ 48,230,458 |                            | \$ 90,571,337 |

| Primary General Service Rate GV |                                 |                                  |             |               |                                 |             |               |                            |               |
|---------------------------------|---------------------------------|----------------------------------|-------------|---------------|---------------------------------|-------------|---------------|----------------------------|---------------|
| Rate                            | Source                          | July 1, 2017 - December 31, 2017 |             |               | January 1, 2018 - June 30, 2018 |             |               | July 2017 - Jun 2018 Total |               |
|                                 |                                 | Units                            | Rate/Charge | Revenue       | Units                           | Rate/Charge | Revenue       | Units                      | Revenue       |
| Standard                        | Customer Charge                 | 8,291                            | \$ 193.27   | \$ 1,602,402  | 8,298                           | \$ 194.03   | \$ 1,610,061  | 16,589                     | \$ 3,212,463  |
|                                 | First 100 kW Demand Charge      | 803,328                          | \$ 5.56     | \$ 4,466,504  | 791,250                         | \$ 5.58     | \$ 4,415,175  | 1,594,578                  | \$ 8,881,679  |
|                                 | All Additional kW Demand Charge | 1,391,116                        | \$ 5.32     | \$ 7,400,737  | 1,231,281                       | \$ 5.34     | \$ 6,575,041  | 2,622,397                  | \$ 13,975,778 |
|                                 | First 200,000 kWh               | 729,664,285                      | \$ 0.00604  | \$ 4,407,172  | 711,498,916                     | \$ 0.00606  | \$ 4,311,683  | 1,441,163,201              | \$ 8,718,856  |
|                                 | All Additional kWh              | 116,319,422                      | \$ 0.00507  | \$ 589,739    | 96,332,580                      | \$ 0.00509  | \$ 490,333    | 212,651,982                | \$ 1,080,072  |
| Rate B < 115 KV                 | Administrative Charge           | 41                               | \$ 340.50   | \$ 13,961     | 47                              | \$ 341.84   | \$ 16,066     | 88                         | \$ 30,027     |
|                                 | Translation Charge              | 18                               | \$ 57.12    | \$ 1,028      | 21                              | \$ 57.34    | \$ 1,204      | 39                         | \$ 2,232      |
|                                 | Demand Charge                   | 17,049                           | \$ 4.46     | \$ 76,039     | 17,110                          | \$ 4.48     | \$ 76,653     | 34,159                     | \$ 152,691    |
|                                 | First 200,000 kWh               | 1,238,528                        | \$ 0.00604  | \$ 7,481      | 1,029,823                       | \$ 0.00606  | \$ 6,241      | 2,268,351                  | \$ 13,721     |
|                                 | All Additional kWh              | -                                | \$ 0.00507  | \$ -          | -                               | \$ 0.00509  | \$ -          | -                          | \$ -          |
| Space Heating                   | Meter Charge                    | -                                | \$ 2.97     | \$ -          | -                               | \$ 2.98     | \$ -          | -                          | \$ -          |
|                                 | All kWh                         | -                                | \$ 0.03413  | \$ -          | -                               | \$ 0.03426  | \$ -          | -                          | \$ -          |
| Total GV                        | Customer/Meter                  | 8,350                            |             | \$ 1,617,390  | 8,366                           |             | \$ 1,627,332  | 16,716                     | \$ 3,244,722  |
|                                 | Demand                          | 2,211,493                        |             | \$ 11,943,279 | 2,039,641                       |             | \$ 11,066,868 | 4,251,134                  | \$ 23,010,148 |
|                                 | kWh                             | 847,222,235                      |             | \$ 5,004,392  | 808,861,299                     |             | \$ 4,808,257  | 1,656,083,534              | \$ 9,812,649  |
|                                 |                                 |                                  |             | \$ 18,565,062 |                                 |             | \$ 17,502,457 |                            | \$ 36,067,519 |

| Large General Service Rate LG |                       |                                  |             |               |                                 |             |              |                            |
|-------------------------------|-----------------------|----------------------------------|-------------|---------------|---------------------------------|-------------|--------------|----------------------------|
| Rate                          | Source                | July 1, 2017 - December 31, 2017 |             |               | January 1, 2018 - June 30, 2018 |             |              | July 2017 - Jun 2018 Total |
|                               |                       | Units                            | Rate/Charge | Revenue       | Units                           | Rate/Charge | Revenue      | Revenue                    |
| Standard                      | Customer Charge       | 625                              | \$ 604.10   | \$ 377,563    | 627                             | \$ 606.47   | \$ 380,257   | 1,252 \$ 757,819           |
|                               | Demand Charge         | 1,408,962                        | \$ 4.73     | \$ 6,664,390  | 1,270,776                       | \$ 4.75     | \$ 6,036,186 | 2,679,738 \$ 12,700,576    |
|                               | On peak kWh           | 269,352,227                      | \$ 0.00506  | \$ 1,362,922  | 243,903,864                     | \$ 0.00508  | \$ 1,239,032 | 513,256,091 \$ 2,601,954   |
|                               | Off Peak kWh          | 339,194,608                      | \$ 0.00427  | \$ 1,448,361  | 318,181,521                     | \$ 0.00429  | \$ 1,364,999 | 657,376,129 \$ 2,813,360   |
| Rate B < 115 KV               | Administrative Charge | 54                               | \$ 340.50   | \$ 18,387     | 53                              | \$ 341.84   | \$ 18,118    | 107 \$ 36,505              |
|                               | Translation Charge    | 12                               | \$ 57.12    | \$ 685        | 21                              | \$ 57.34    | \$ 1,204     | 33 \$ 1,890                |
|                               | Demand charge         | 141 075                          | \$ 4.46     | \$ 629,195    | 127 176                         | \$ 4.48     | \$ 569,748   | 268,251 \$ 1,198,943       |
|                               | On peak kWh           | 1 939 150                        | \$ 0.00506  | \$ 9,812      | 2 165 816                       | \$ 0.00508  | \$ 11,002    | 4,104,966 \$ 20,814        |
| Rate B >= 115 KV              | Off Peak kWh          | 2 859 756                        | \$ 0.00427  | \$ 12,211     | 3 288 722                       | \$ 0.00429  | \$ 14,109    | 6,148,478 \$ 26,320        |
|                               | Administrative Charge | 31                               | \$ 340.50   | \$ 10,556     | 33                              | \$ 341.84   | \$ 11,281    | 64 \$ 21,836               |
|                               | Translation Charge    | -                                | \$ 57.12    | \$ -          | 13                              | \$ 57.34    | \$ 745       | 13 \$ 745                  |
|                               | Demand charge         | 512,892                          | \$ -        | \$ -          | 400,636                         | \$ -        | \$ -         | 913,528 \$ -               |
| Total LG                      | On peak kWh           | 3,376,729                        | \$ -        | \$ -          | 5,384,690                       | \$ -        | \$ -         | 8,761,419 \$ -             |
|                               | Off Peak kWh          | 9,352,794                        | \$ -        | \$ -          | 11,674,131                      | \$ -        | \$ -         | 21,026,925 \$ -            |
|                               | Customer/Meter        | 722                              |             | \$ 407,190    | 747                             |             | \$ 411,604   | 1,469 \$ 818,795           |
|                               | Demand                | 2,062,929                        |             | \$ 7,293,585  | 1,798,588                       |             | \$ 6,605,934 | 3,861,517 \$ 13,899,519    |
|                               | kWh                   | 626 075 264                      |             | \$ 2,833,307  | 584 598,744                     |             | \$ 2,629,141 | 1,210,674,008 \$ 5,462,448 |
|                               |                       |                                  |             | \$ 10,534,082 |                                 |             | \$ 9,646,680 | \$ 20,180,762              |

| Outdoor Lighting Rate OL |                |                                  |             |              |                                 |             |              |                            |              |          |
|--------------------------|----------------|----------------------------------|-------------|--------------|---------------------------------|-------------|--------------|----------------------------|--------------|----------|
| Type                     | Fixture        | July 1, 2017 - December 31, 2017 |             |              | January 1, 2018 - June 30, 2018 |             |              | July 2017 - Jun 2018 Total |              |          |
|                          |                | Units                            | Rate/Charge | Revenue      | Units                           | Rate/Charge | Revenue      | Units                      | Revenue      |          |
| High Pressure Sodium     | 4,000 Lumens   | 21,216                           | \$ 15.77    | \$ 334,576   | 21,279                          | \$ 15.83    | \$ 336,846   | 42,495                     | \$ 671,422   |          |
|                          | 5,800 Lumens   | 3,786                            | \$ 15.77    | \$ 59,390    | 3,706                           | \$ 15.83    | \$ 58,659    | 7,472                      | \$ 118,049   |          |
|                          | 9,500 Lumens   | 5603                             | \$ 20.97    | \$ 117,495   | 5,560                           | \$ 21.05    | \$ 117,036   | 11,163                     | \$ 234,531   |          |
|                          | 16,000 Lumens  | 4982                             | \$ 28.65    | \$ 147,716   | 5,034                           | \$ 29.77    | \$ 149,862   | 10,016                     | \$ 297,578   |          |
|                          | 30,000 Lumens  | 8180                             | \$ 30.39    | \$ 248,590   | 8,257                           | \$ 30.51    | \$ 251,910   | 16,437                     | \$ 500,500   |          |
|                          | 50,000 Lumens  | 11395                            | \$ 30.73    | \$ 350,168   | 11,685                          | \$ 30.85    | \$ 360,496   | 23,080                     | \$ 710,664   |          |
|                          | 130,000 Lumens | 1848                             | \$ 49.32    | \$ 91,143    | 1,897                           | \$ 49.51    | \$ 93,914    | 3,745                      | \$ 185,057   |          |
|                          | 12,000 Lumens  | 55                               | \$ 21.68    | \$ 1,192     | 55                              | \$ 21.77    | \$ 1,197     | 110                        | \$ 2,390     |          |
|                          | 34,200 Lumens  | 36                               | \$ 27.76    | \$ 999       | 31                              | \$ 27.87    | \$ 864       | 67                         | \$ 1,863     |          |
| Mercury                  | 3,500 Lumens   | 32675                            | \$ 13.91    | \$ 454,509   | 30,146                          | \$ 13.96    | \$ 420,834   | 62,821                     | \$ 875,344   |          |
|                          | 7,000 Lumens   | 6057                             | \$ 16.73    | \$ 101,334   | 5,896                           | \$ 16.80    | \$ 99,058    | 11,953                     | \$ 200,392   |          |
|                          | 11,000 Lumens  | 499                              | \$ 20.69    | \$ 10,324    | 371                             | \$ 20.77    | \$ 7,710     | 870                        | \$ 18,034    |          |
|                          | 20,000 Lumens  | 2578                             | \$ 25.55    | \$ 65,868    | 2,581                           | \$ 25.65    | \$ 66,205    | 5,159                      | \$ 132,073   |          |
|                          | 56,000 Lumens  | 867                              | \$ 40.61    | \$ 35,209    | 858                             | \$ 40.77    | \$ 34,978    | 1,725                      | \$ 70,187    |          |
|                          | 15,000 Lumens  | 32                               | \$ 23.67    | \$ 757       | 20                              | \$ 23.76    | \$ 464       | 52                         | \$ 1,222     |          |
| Metal Halide             | 5,000 Lumens   | 1333                             | \$ 16.45    | \$ 21,928    | 1,359                           | \$ 16.51    | \$ 22,435    | 2,692                      | \$ 44,363    |          |
|                          | 8,000 Lumens   | 796                              | \$ 22.51    | \$ 17,918    | 788                             | \$ 22.60    | \$ 17,800    | 1,584                      | \$ 35,718    |          |
|                          | 13,000 Lumens  | 0                                | \$ 30.89    | \$ -         |                                 | \$ 31.01    | \$ -         | -                          | \$ -         |          |
|                          | 13,500 Lumens  | 708                              | \$ 31.55    | \$ 22,337    | 727                             | \$ 31.67    | \$ 23,032    | 1,435                      | \$ 45,369    |          |
|                          | 20,000 Lumens  | 1771                             | \$ 31.55    | \$ 55,875    | 1,887                           | \$ 31.67    | \$ 59,761    | 3,658                      | \$ 115,636   |          |
|                          | 36,000 Lumens  | 2687                             | \$ 31.83    | \$ 85,527    | 2,814                           | \$ 31.96    | \$ 89,935    | 5,501                      | \$ 175,463   |          |
|                          | 100,000 Lumens | 1649                             | \$ 47.72    | \$ 78,690    | 1,666                           | \$ 47.91    | \$ 79,818    | 3,315                      | \$ 158,508   |          |
|                          | Incandescent   | 600 Lumens                       | 537         | \$ 9.08      | \$ 4,876                        | 534         | \$ 9.12      | \$ 4,870                   | 1,071        | \$ 9,746 |
|                          | 1,000 Lumens   | 1560                             | \$ 10.14    | \$ 15,818    | 1,451                           | \$ 10.18    | \$ 14,768    | 3,011                      | \$ 30,587    |          |
| Fluorescent              | 2,500 Lumens   | 24                               | \$ 13.01    | \$ 312       | 24                              | \$ 13.06    | \$ 313       | 48                         | \$ 626       |          |
|                          | 6,000 Lumens   | 0                                | \$ 22.35    | \$ -         | 0                               | \$ 22.44    | \$ -         | -                          | \$ -         |          |
|                          | 20,000 Lumens  | 12                               | \$ 34.65    | \$ 416       | 12                              | \$ 34.79    | \$ 417       | 24                         | \$ 833       |          |
| Total Rate OL            | Fixtures       | 110,866                          |             | \$ 2,322,971 | 108,637                         |             | \$ 2,313,184 | 219,503                    | \$ 4,636,155 |          |
|                          | Demand         |                                  |             |              |                                 |             |              |                            |              |          |
|                          | kWh            | 9,117,859                        |             | \$ 2,322,971 | 7,951,982                       |             | \$ 2,313,184 | 17,069,841                 | \$ 4,636,155 |          |

| Outdoor Lighting Rate EOL |                               |                                  |             |              |                                 |             |              |                            |
|---------------------------|-------------------------------|----------------------------------|-------------|--------------|---------------------------------|-------------|--------------|----------------------------|
| Type                      | Fixture                       | July 1, 2017 - December 31, 2017 |             |              | January 1, 2018 - June 30, 2018 |             |              | July 2017 - Jun 2018 Total |
|                           |                               | Units                            | Rate/Charge | Revenue      | Units                           | Rate/Charge | Revenue      | Revenue                    |
| High Pressure Sodium      | 4,000 Lumens                  | 60,617                           | \$ 8.39     | \$ 508,577   | 40,760                          | \$ 8.42     | \$ 343,199   | 101,377 \$ 851,776         |
|                           | 5,800 Lumens                  | 2,807                            | \$ 8.39     | \$ 23,551    | 1,507                           | \$ 8.42     | \$ 12,689    | 4,314 \$ 36,240            |
|                           | 9,500 Lumens                  | 6,521                            | \$ 10.32    | \$ 67,297    | 3,871                           | \$ 10.36    | \$ 40,104    | 10,392 \$ 107,400          |
|                           | 16,000 Lumens                 | 7,577                            | \$ 11.35    | \$ 85,999    | 4,504                           | \$ 11.39    | \$ 51,301    | 12,081 \$ 137,300          |
|                           | 30,000 Lumens                 | 15,189                           | \$ 11.35    | \$ 172,395   | 11,894                          | \$ 11.39    | \$ 135,473   | 27,083 \$ 307,868          |
|                           | 50,000 Lumens                 | 1,095                            | \$ 11.71    | \$ 12,822    | 837                             | \$ 11.76    | \$ 9,843     | 1,932 \$ 22,666            |
|                           | 130,000 Lumens                | 367                              | \$ 22.23    | \$ 8,158     | 350                             | \$ 22.32    | \$ 7,812     | 717 \$ 15,970              |
|                           | Metal Halide                  | 9,347                            | \$ 8.72     | \$ 81,506    | 5,615                           | \$ 8.75     | \$ 49,131    | 14,962 \$ 130,637          |
|                           | 8,000 Lumens                  | 918                              | \$ 11.52    | \$ 10,575    | 577                             | \$ 11.57    | \$ 6,676     | 1,495 \$ 17,251            |
|                           | 13,000 Lumens                 | -                                | \$ 12.30    | \$ -         | -                               | \$ 12.35    | \$ -         | - \$ -                     |
|                           | 13,500 Lumens                 | 579                              | \$ 12.95    | \$ 7,498     | 558                             | \$ 13.00    | \$ 7,254     | 1,137 \$ 14,752            |
|                           | 20,000 Lumens                 | 486                              | \$ 13.17    | \$ 6,401     | 618                             | \$ 13.22    | \$ 8,170     | 1,104 \$ 14,571            |
| LED's                     | 36,000 Lumens                 | 347                              | \$ 13.54    | \$ 4,698     | 435                             | \$ 13.59    | \$ 5,912     | 782 \$ 10,610              |
|                           | 100,000 Lumens                | 616                              | \$ 24.12    | \$ 14,858    | 315                             | \$ 24.21    | \$ 7,626     | 931 \$ 22,484              |
|                           | Per Fixture                   | 137,732                          | \$ 3.36     | \$ 462,780   | 178,608                         | \$ 3.37     | \$ 601,909   | 316,340 \$ 1,064,688       |
|                           | Per Watt                      | 1,946,547                        | \$ 0.0511   | \$ 99,469    | 2,901,583                       | \$ 0.0513   | \$ 148,851   | 4,848,130 \$ 248,320       |
|                           | Maintenance credit (contract) |                                  |             | \$ (53)      |                                 |             | \$ (25)      | \$ (78)                    |
| Total Rate EOL            | Fixtures                      | 244,198                          |             | \$ 1,566,530 | 250,449                         |             | \$ 1,435,925 | 494,647 \$ 3,002,455       |
|                           | Demand                        | -                                |             | \$ -         | -                               |             | \$ -         | - \$ -                     |
|                           | kWh                           | 6,616,388                        |             | \$ -         | 5,596,189                       |             | \$ -         | 12,212,577 \$ -            |
|                           |                               |                                  |             | \$ 1,566,530 |                                 |             | \$ 1,435,925 | \$ 3,002,455               |

| Total Retail |                |                                  |                |                                 |                |                            |                |
|--------------|----------------|----------------------------------|----------------|---------------------------------|----------------|----------------------------|----------------|
| Type         | Source         | July 1, 2017 - December 31, 2017 |                | January 1, 2018 - June 30, 2018 |                | July 2017 - Jun 2018 Total |                |
|              |                | Units                            | Revenue        | Units                           | Revenue        | Units                      | Revenue        |
| Total Retail | Customer/Meter | 3,376,023                        | \$ 45,031,040  | 3,385,914                       | \$ 45,377,310  | 6,761,937                  | \$ 90,408,350  |
|              | Fixtures       | 355,064                          | \$ 3,899,501   | 359,086                         | \$ 3,749,109   | 714,150                    | \$ 7,638,609   |
|              | Demand         | 6,393,539                        | \$ 37,674,984  | 5,765,335                       | \$ 34,490,742  | 12,158,874                 | \$ 72,165,726  |
|              | kWh            | 3,886,312,720                    | \$ 85,493,346  | 3,851,357,787                   | \$ 94,265,999  | 7,737,670,506              | \$ 179,759,345 |
|              |                |                                  | \$ 172,088,871 |                                 | \$ 177,883,160 |                            | \$ 349,972,031 |

| Lost Base Revenue                                                              |        |                                  |                |                                 |                |                            |                |
|--------------------------------------------------------------------------------|--------|----------------------------------|----------------|---------------------------------|----------------|----------------------------|----------------|
| Summary of Data Included in the Calculation of the Average Distribution Rates* |        |                                  |                |                                 |                |                            |                |
| Type                                                                           | Source | July 1, 2017 - December 31, 2017 |                | January 1, 2018 - June 30, 2018 |                | July 2017 - Jun 2018 Total |                |
|                                                                                |        | Units                            | Revenue        | Units                           | Revenue        | Units                      | Revenue        |
| Total Residential                                                              | Demand | -                                | \$ -           | -                               | \$ -           | -                          | \$ -           |
|                                                                                | kWh    | 1,542,222,996                    | \$ 62,295,023  | 1,596,134,012                   | \$ 64,013,883  | 3,138,357,008              | \$ 126,308,907 |
|                                                                                |        |                                  | \$ 62,295,023  |                                 | \$ 64,013,883  |                            | \$ 126,308,907 |
| Total General Service                                                          | Demand | 2,119,117                        | \$ 18,438,120  | 1,927,106                       | \$ 16,817,939  | 4,046,223                  | \$ 35,256,059  |
|                                                                                | kWh    | 855,057,978                      | \$ 15,360,623  | 848,215,561                     | \$ 22,814,718  | 1,703,273,539              | \$ 38,175,341  |
|                                                                                |        |                                  | \$ 33,798,744  |                                 | \$ 39,632,656  |                            | \$ 73,431,400  |
| Total GV                                                                       | Demand | 2,211,493                        | \$ 11,943,279  | 2,039,641                       | \$ 11,066,868  | 4,251,134                  | \$ 23,010,148  |
|                                                                                | kWh    | 847,222,235                      | \$ 5,004,392   | 808,861,299                     | \$ 4,808,257   | 1,656,083,534              | \$ 9,812,649   |
|                                                                                |        |                                  | \$ 16,947,872  |                                 | \$ 15,875,125  |                            | \$ 32,822,797  |
| Total LG                                                                       | Demand | 1,550,037                        | \$ 7,293,585   | 1,397,952                       | \$ 6,605,934   | 2,947,989                  | \$ 13,899,519  |
|                                                                                | kWh    | 613,345,741                      | \$ 2,833,307   | 567,539,923                     | \$ 2,629,141   | 1,180,885,664              | \$ 5,462,448   |
|                                                                                |        |                                  | \$ 10,126,891  |                                 | \$ 9,235,076   |                            | \$ 19,361,967  |
| Total                                                                          | Demand | 5,880,647                        | \$ 37,674,984  | 5,364,699                       | \$ 34,490,742  | 11,245,346                 | \$ 72,165,726  |
|                                                                                | kWh    | 3,857,848,950                    | \$ 85,493,346  | 3,820,750,795                   | \$ 94,265,999  | 7,678,599,744              | \$ 179,759,345 |
|                                                                                |        |                                  | \$ 123,168,330 |                                 | \$ 128,756,741 |                            | \$ 251,925,071 |

\* The Lost Base Revenue calculation excludes the outdoor lighting rates (Rate OL and Rate EOL), the Customer/Meter charge revenue from each rate, and the on/off peak kWh associated with Rate B >= 115 kW under Rate LG.

Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities  
NHPUC Docket No. DE 17-136  
Revised Attachment F3  
Page 1 of 11

**Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities  
2019 System Benefits Charge ("SBC") Calculation  
(\$ in 000's)**

| Year   | EE<br>Total Budget | RGGI<br>Revenues | FCM<br>Revenues | Other<br>Revenues | Carryforward<br>with Interest | Current<br>Year<br>Interest | SBC<br>Requirement | Forecasted<br>Distribution<br>(MWH) | SBC Rate<br>EE Portion<br>(cents/kWh) | SBC Rate<br>EAP Portion<br>(cents/kWh) | SBC Rate<br>LBR Portion<br>(cents/kWh) | 2018<br>Total SBC Rate<br>(cents/kWh) |
|--------|--------------------|------------------|-----------------|-------------------|-------------------------------|-----------------------------|--------------------|-------------------------------------|---------------------------------------|----------------------------------------|----------------------------------------|---------------------------------------|
| Col. A | Col. B             | Col. C           | Col. D          | Col. E            | Col. F                        | Col. G                      | Col. H             | Col. I                              | Col. J                                | Col. K                                 | Col. L                                 | Col. M                                |
| 2019   | \$ 3,425           | \$ 214           | \$ 633          | \$ -              | \$ (163)                      | \$ 11                       | \$ 2,730           | 918,145                             | 0.373                                 | 0.150                                  | 0.012                                  | 0.535                                 |

Col. A: Effective year (January 1, 2019 - December 31, 2019)  
Col. B: Company Forecast  
Col. C: Company Forecast  
Col. D: Company Forecast  
Col. E: Company Forecast  
Col. F: Page 2, Line 9 Col. N + Line 11 Col. O  
Col. G: Page 3, Line 11, Col. O  
Col. H: Col. B - Col. C - Col. D - Col. E - Col. F - Col. G  
Col. I: Company Forecast  
Col. J: (Col. H / Col. I) x 100  
Col. K: EAP Portion of SBC Rate  
Col. L: Page 4, Col. G  
Col. M: Col. J + Col. K + Col. L

Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities  
NHPUC Docket No. DE 17-136  
Revised Attachment F3  
Page 2 of 11

**Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities**  
**Energy Efficiency Expense & SBC Revenue Reconciliation**  
**January 1, 2018 to December 31, 2018**  
**(\$ in 000's)**

| Line | Description                         | Carryover<br>12/31/17 | Actual<br>Jan-18 | Actual<br>Feb-18 | Actual<br>Mar-18 | Actual<br>Apr-18 | Actual<br>May-18 | Actual<br>Jun-18 | Actual<br>Jul-18 | Actual<br>Aug-18 | Actual<br>Sep-18 | Actual<br>Oct-18 | Actual<br>Nov-18 | Forecast<br>Dec-18 | 2018<br>Total |
|------|-------------------------------------|-----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|---------------|
|      | Col. A                              | Col. B                | Col. C           | Col. D           | Col. E           | Col. F           | Col. G           | Col. H           | Col. I           | Col. J           | Col. K           | Col. L           | Col. M           | Col. N             | Col. O        |
| 1    | SBC Revenues                        |                       | 195              | 204              | 198              | 193              | 190              | 212              | 231              | 248              | 236              | 192              | 180              | 164                | 2,443         |
| 2    | RGGI Revenues                       |                       | -                | -                | 51               | 48               | -                | -                | 55               | -                | 56               | -                | -                | 59                 | 269           |
| 3    | FCM Revenues                        |                       | 45               | 44               | 44               | 43               | 55               | 50               | 66               | 66               | 60               | 58               | 66               | 40                 | 637           |
| 4    | Other Revenues                      |                       | -                | -                | -                | -                | -                | -                | -                | -                | -                | -                | -                | -                  | -             |
| 5    | <b>Total Revenues</b>               |                       | <b>240</b>       | <b>248</b>       | <b>293</b>       | <b>284</b>       | <b>245</b>       | <b>263</b>       | <b>352</b>       | <b>314</b>       | <b>352</b>       | <b>251</b>       | <b>246</b>       | <b>263</b>         | <b>3,349</b>  |
| 6    | Program Expenses                    |                       | 107              | 192              | 67               | 129              | 125              | 160              | 236              | 196              | 219              | 155              | 261              | 256                | 2,103         |
| 7    | <b>Total Program Expenses</b>       |                       | <b>107</b>       | <b>192</b>       | <b>67</b>        | <b>129</b>       | <b>125</b>       | <b>160</b>       | <b>236</b>       | <b>196</b>       | <b>219</b>       | <b>155</b>       | <b>261</b>       | <b>256</b>         | <b>2,103</b>  |
| 8    | Current Month (Over)/Under Recovery |                       | (133)            | (55)             | (226)            | (155)            | (120)            | (103)            | (116)            | (118)            | (133)            | (96)             | 15               | (7)                |               |
| 9    | Cumulative (Over)/Under Recovery    | (163)                 | (296)            | (351)            | (577)            | (732)            | (852)            | (955)            | (1,070)          | (1,188)          | (1,321)          | (1,417)          | (1,402)          | (1,409)            |               |
| 10   | Interest @ Prime Rate               |                       | 0.38%            | 0.38%            | 0.38%            | 0.40%            | 0.40%            | 0.40%            | 0.42%            | 0.42%            | 0.42%            | 0.42%            | 0.42%            | 0.42%              |               |
| 11   | <b>Interest on Deferral Balance</b> |                       | <b>(1)</b>       | <b>(1)</b>       | <b>(2)</b>       | <b>(3)</b>       | <b>(3)</b>       | <b>(4)</b>       | <b>(4)</b>       | <b>(5)</b>       | <b>(5)</b>       | <b>(6)</b>       | <b>(6)</b>       | <b>(6)</b>         | <b>(45)</b>   |
| 12   | <b>Monthly Sales (MWh)</b>          |                       | 82,892           | 74,290           | 71,924           | 70,283           | 69,006           | 77,250           | 81,180           | 87,796           | 76,569           | 69,399           | 69,969           | 76,708             | 907,266       |
| 13   | <b>EE SBC Rate</b>                  |                       | 0.275            | 0.275            | 0.275            | 0.275            | 0.275            | 0.275            | 0.275            | 0.275            | 0.275            | 0.275            | 0.275            | 0.275              |               |

Line 1: (Line 12 x Line 13) / 100  
Line 2: Company Forecast  
Line 3: Company Forecast  
Line 4: Company Forecast  
Line 5: Sum of Lines 1 through Lines 4  
Line 6: Company Forecast  
Line 7: Sum of Line 6  
Line 8: Line 7 - Line 5  
Line 9: Prior month Line 9 + Current month Line 8  
Line 10: Prime Rate / 12  
Line 11: (Prior Month Line 9 + Current Month Line 9) / 2 x Line 10  
Line 12: Company Forecast  
Line 13: 2017 approved rate

Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities  
NHPUC Docket No. DE 17-136  
Revised Attachment F3  
Page 3 of 11

**Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities**  
**Energy Efficiency Expense & SBC Revenue Reconciliation**  
**January 1, 2019 to December 31, 2019**  
**(\$ in 000's)**

| Line | Description                         | Carryover<br>12/31/2018 | Forecast<br>Jan 2019 | Forecast<br>Feb 2019 | Forecast<br>Mar 2019 | Forecast<br>Apr 2019 | Forecast<br>May 2019 | Forecast<br>June 2019 | Forecast<br>Jul 2019 | Forecast<br>Aug 2019 | Forecast<br>Sep 2019 | Forecast<br>Oct 2019 | Forecast<br>Nov 2019 | Forecast<br>Dec 2019 | 2019<br>Total  |
|------|-------------------------------------|-------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------|
|      | Col. A                              | Col. B                  | Col. C               | Col. D               | Col. E               | Col. F               | Col. G               | Col. H                | Col. I               | Col. J               | Col. K               | Col. L               | Col. M               | Col. N               | Col. O         |
| 1    | SBC Revenues                        |                         | \$299                | \$271                | \$272                | \$253                | \$263                | \$287                 | \$331                | \$334                | \$290                | \$265                | \$268                | \$293                | \$3,425        |
| 2    | RGGI Revenues                       |                         | \$0                  | \$0                  | \$53                 | \$0                  | \$0                  | \$53                  | \$0                  | \$0                  | \$53                 | \$0                  | \$0                  | \$53                 | \$214          |
| 3    | FCM Revenues                        |                         | \$53                 | \$53                 | \$53                 | \$53                 | \$53                 | \$53                  | \$53                 | \$53                 | \$53                 | \$53                 | \$53                 | \$53                 | \$633          |
| 4    | Other Revenues                      |                         | \$0                  | \$0                  | \$0                  | \$0                  | \$0                  | \$0                   | \$0                  | \$0                  | \$0                  | \$0                  | \$0                  | \$0                  | \$0            |
| 5    | <b>Total Revenues</b>               |                         | <b>\$351</b>         | <b>\$324</b>         | <b>\$378</b>         | <b>\$305</b>         | <b>\$316</b>         | <b>\$393</b>          | <b>\$383</b>         | <b>\$386</b>         | <b>\$396</b>         | <b>\$318</b>         | <b>\$320</b>         | <b>\$399</b>         | <b>\$4,271</b> |
| 6    | Program Expenses                    |                         | \$285                | \$285                | \$285                | \$285                | \$285                | \$285                 | \$285                | \$285                | \$285                | \$285                | \$285                | \$285                | \$3,425        |
| 7    | <b>Total Program Expenses</b>       |                         | <b>\$285</b>         | <b>\$285</b>         | <b>\$285</b>         | <b>\$285</b>         | <b>\$285</b>         | <b>\$285</b>          | <b>\$285</b>         | <b>\$285</b>         | <b>\$285</b>         | <b>\$285</b>         | <b>\$285</b>         | <b>\$285</b>         | <b>\$3,425</b> |
| 8    | Current Month (Over)/Under Recovery |                         | (\$66)               | (\$38)               | (\$93)               | (\$20)               | (\$30)               | (\$108)               | (\$98)               | (\$101)              | (\$111)              | (\$32)               | (\$35)               | (\$114)              |                |
| 9    | Cumulative (Over)/Under Recovery    | \$163                   | \$97                 | \$59                 | (\$34)               | (\$54)               | (\$84)               | (\$192)               | (\$290)              | (\$391)              | (\$502)              | (\$534)              | (\$569)              | (\$683)              |                |
| 10   | Interest @ Prime Rate               |                         | 0.42%                | 0.42%                | 0.42%                | 0.42%                | 0.42%                | 0.42%                 | 0.42%                | 0.42%                | 0.42%                | 0.42%                | 0.42%                | 0.42%                |                |
| 11   | <b>Interest on Deferral Balance</b> |                         | <b>\$1</b>           | <b>\$0</b>           | <b>\$0</b>           | <b>(\$0)</b>         | <b>(\$0)</b>         | <b>(\$1)</b>          | <b>(\$1)</b>         | <b>(\$1)</b>         | <b>(\$2)</b>         | <b>(\$2)</b>         | <b>(\$2)</b>         | <b>(\$3)</b>         | <b>(\$11)</b>  |
| 12   | <b>Monthly Sales (MWh)</b>          |                         | 80,095               | 72,613               | 72,933               | 67,755               | 70,480               | 76,884                | 88,660               | 89,486               | 77,813               | 71,040               | 71,774               | 78,613               | 918,145        |
| 13   | <b>EE SBC Rate</b>                  |                         | 0.373                | 0.373                | 0.373                | 0.373                | 0.373                | 0.373                 | 0.373                | 0.373                | 0.373                | 0.373                | 0.373                | 0.373                |                |

Line 1: (Line 12 x Line 13) / 100  
Line 2: Page 1, Col. C  
Line 3: Page 1, Col. D  
Line 4: Page 1, Col. E  
Line 5: Sum of Lines 1 through Lines 4  
Line 6: Page 1, Col. B  
Line 7: Sum of Line 6  
Line 8: Line 7 - Line 5  
Line 9: Prior month Line 9 + Current month Line 8  
Line 10: Prime Rate / 12  
Line 11: (Prior Month Line 9 + Current Month Line 9) / 2 x Line 10  
Line 12: Company Forecast  
Line 13: Page 1, Col. J

Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities  
NHPUC Docket No. DE 17-136  
Revised Attachment F3  
Page 4 of 11

**Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities  
2019 System Benefits Charge Calculation (LBR Component)  
(\$ in 000's)**

| Year   | Forecasted<br>LBR<br>Revenue | Prior Year<br>Deferral<br>with Interest | Current<br>Year<br>Interest | Total<br>LBR<br>Revenue | Forecasted<br>Distribution<br>(MWH) | SBC Rate<br>LBR Portion<br>(cents/kWh) |
|--------|------------------------------|-----------------------------------------|-----------------------------|-------------------------|-------------------------------------|----------------------------------------|
| Col. A | Col. B                       | Col. C                                  | Col. D                      | Col. E                  | Col. F                              | Col. G                                 |
| 2019   | \$ 114                       | \$ -                                    | \$ (0)                      | \$ 114                  | 918,145                             | 0.012                                  |

Col. A: Effective year (January 1, 2019 - December 31, 2019)  
Col. B: Page 5, Line 21, Col. O / 1000  
Col. C: Page 6, Line 7, Col. N  
Col. D: Page 7, Line 6, Col. O  
Col. E: Col. B + Col. C + Col. D  
Col. F: Company Forecast  
Col. G: (Col. E \* 100) / Col. F

Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities  
Monthly and Cumulative Savings and Lost Base Revenue  
January 1, 2019 to December 31, 2019

Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities  
NHPUC Docket No. DE 17-136  
Revised Attachment F3  
Page 5 of 11

| Line                            | Description                                         | Cumulative Annual<br>kWh Savings /<br>12/31/2018 | Forecast<br>Jan 2019 | Forecast<br>Feb 2019 | Forecast<br>Mar 2019 | Forecast<br>Apr 2019 | Forecast<br>May 2019 | Forecast<br>June 2019 | Forecast<br>Jul 2019 | Forecast<br>Aug 2019 | Forecast<br>Sep 2019 | Forecast<br>Oct 2019 | Forecast<br>Nov 2019 | Forecast<br>Dec 2019 | 2019 Annual MWh and<br>Monthly MW Savings | Cumulative<br>Annual kWh and<br>Monthly kW |
|---------------------------------|-----------------------------------------------------|--------------------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------------------------------------|--------------------------------------------|
| 1                               | Residential Annual kWh Savings (2017, 2018, & 2019) | -                                                | 187,203              | 187,203              | 187,203              | 187,203              | 187,203              | 187,203               | 187,203              | 187,203              | 187,203              | 187,203              | 187,203              | 187,203              | 2,246,440                                 | 2,246,440                                  |
| 2                               | C&I Annual kWh Savings (2017 & 2018)                | -                                                | -                    | -                    | -                    | -                    | -                    | -                     | -                    | -                    | -                    | -                    | -                    | -                    | -                                         | -                                          |
| 3                               | C&I Annual kWh Savings (2019)                       | -                                                | 581,493              | 581,493              | 581,493              | 581,493              | 581,493              | 581,493               | 581,493              | 581,493              | 581,493              | 581,493              | 581,493              | 581,493              | 6,977,921                                 | 6,977,921                                  |
| 4                               | C&I Monthly Installed kW Savings*                   | -                                                | 736                  | 736                  | 736                  | 736                  | 736                  | 736                   | 736                  | 736                  | 736                  | 736                  | 736                  | 736                  | 736                                       | 736                                        |
| Total 2019<br>Lost Base Revenue |                                                     |                                                  |                      |                      |                      |                      |                      |                       |                      |                      |                      |                      |                      |                      |                                           |                                            |
| 5                               | Monthly Residential Savings (2019)                  | -                                                | 14,400               | 14,400               | 14,400               | 14,400               | 14,400               | 14,400                | 14,400               | 14,400               | 14,400               | 14,400               | 14,400               | 14,400               | 14,400                                    | 14,400                                     |
| 6                               | Cumulative Residential Savings                      | -                                                | 14,400               | 28,800               | 43,200               | 57,600               | 72,000               | 86,400                | 100,800              | 115,200              | 129,600              | 144,000              | 158,400              | 172,800              | 172,800                                   | 172,800                                    |
| 7                               | Average Residential kWh Distribution Rate           | -                                                | 0.04349              | 0.04349              | 0.04349              | 0.04349              | 0.04349              | 0.04349               | 0.04349              | 0.04349              | 0.04349              | 0.04349              | 0.04349              | 0.04349              | 0.04349                                   | 0.04349                                    |
| 8                               | Total Lost Residential Revenue                      | -                                                | \$ 626               | \$ 1,253             | \$ 1,879             | \$ 2,505             | \$ 3,131             | \$ 3,758              | \$ 4,384             | \$ 5,010             | \$ 5,637             | \$ 6,263             | \$ 6,889             | \$ 7,516             | \$ 48,851                                 | \$ 48,851                                  |
| 9                               | Monthly C&I Savings (2017 & 2018)                   | -                                                | -                    | -                    | -                    | -                    | -                    | -                     | -                    | -                    | -                    | -                    | -                    | -                    | -                                         | -                                          |
| 10                              | Average C&I kWh Distribution Rate                   | -                                                | -                    | -                    | -                    | -                    | -                    | -                     | -                    | -                    | -                    | -                    | -                    | -                    | -                                         | -                                          |
| 11                              | Lost C&I kWh Revenue                                | -                                                | \$ -                 | \$ -                 | \$ -                 | \$ -                 | \$ -                 | \$ -                  | \$ -                 | \$ -                 | \$ -                 | \$ -                 | \$ -                 | \$ -                 | \$ -                                      | \$ -                                       |
| 12                              | Monthly C&I Savings (2019)                          | -                                                | 44,731               | 89,463               | 134,194              | 178,925              | 223,656              | 268,388               | 313,119              | 357,850              | 402,581              | 447,313              | 492,044              | 536,775              | 536,775                                   | 536,775                                    |
| 13                              | Cumulative C&I Savings                              | -                                                | 44,731               | 89,463               | 134,194              | 178,925              | 223,656              | 268,388               | 313,119              | 357,850              | 402,581              | 447,313              | 492,044              | 536,775              | 536,775                                   | 536,775                                    |
| 14                              | Average C&I kWh Distribution Rate                   | -                                                | 0.00872              | 0.00872              | 0.00872              | 0.00872              | 0.00872              | 0.00872               | 0.00872              | 0.00872              | 0.00872              | 0.00872              | 0.00872              | 0.00872              | 0.00872                                   | 0.00872                                    |
| 15                              | Lost C&I kWh Revenue                                | -                                                | \$ 390               | \$ 780               | \$ 1,170             | \$ 1,560             | \$ 1,950             | \$ 2,340              | \$ 2,730             | \$ 3,120             | \$ 3,510             | \$ 3,900             | \$ 4,289             | \$ 4,679             | \$ 30,416                                 | \$ 30,416                                  |
| 16                              | Monthly C&I kW Savings (2019)                       | -                                                | 61                   | 122                  | 171                  | 227                  | 284                  | 340                   | 396                  | 451                  | 508                  | 564                  | 620                  | 677                  | 677                                       | 677                                        |
| 17                              | Cumulative Monthly C&I kW Savings                   | -                                                | 61                   | 122                  | 171                  | 227                  | 284                  | 340                   | 396                  | 451                  | 508                  | 564                  | 620                  | 677                  | 677                                       | 677                                        |
| 18                              | Average C&I Demand Rate                             | -                                                | 7.77                 | 7.77                 | 7.77                 | 7.77                 | 7.77                 | 7.77                  | 7.77                 | 7.77                 | 7.77                 | 7.77                 | 7.77                 | 7.77                 | 7.77                                      | 7.77                                       |
| 19                              | Lost C&I Demand Revenue                             | -                                                | \$ 476               | \$ 948               | \$ 1,328             | \$ 1,763             | \$ 2,206             | \$ 2,641              | \$ 3,076             | \$ 3,503             | \$ 3,945             | \$ 4,380             | \$ 4,815             | \$ 5,258             | \$ 34,339                                 | \$ 34,339                                  |
| 20                              | Total Lost C&I kWh and Demand Revenue               | -                                                | \$ 866               | \$ 1,727             | \$ 2,498             | \$ 3,323             | \$ 4,155             | \$ 4,980              | \$ 5,805             | \$ 6,622             | \$ 7,455             | \$ 8,280             | \$ 9,105             | \$ 9,937             | \$ 64,755                                 | \$ 64,755                                  |
| 21                              | Total Lost Revenue                                  | -                                                | \$ 1,493             | \$ 2,980             | \$ 4,377             | \$ 5,828             | \$ 7,287             | \$ 8,738              | \$ 10,189            | \$ 11,633            | \$ 13,092            | \$ 14,543            | \$ 15,994            | \$ 17,453            | \$ 113,606                                | \$ 113,606                                 |

Lines 1-3: Company Forecast  
Line 4: Line 1 + Line 2 + Line 3  
Line 5: Company Forecast  
Line 6: Line 5  
Line 7: Line 2 / 12  
Line 8: Prior Month Line 8 + Current Month Line 7  
Line 9: Page 8, Column 7  
Line 10: Line 8 x Line 9  
Line 11: Line 1 / 12  
Line 12: Page 8, Column 8  
Line 14: Line 3 / 12  
Line 15: Prior Month Line 15 + Current Month Line 14  
Line 16: Page 8, Column 7  
Line 17: Line 15 x Line 16  
Line 18: Line 5 / 12  
Line 19: Prior Month Line 19 + Current Month Line 18  
Line 20: Page 8, Column 6  
Line 21: Line 19 x Line 20  
Line 22: Line 10 + Line 13 + Line 17 + Line 21

Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities  
NHPUC Docket No. DE 17-136  
Revised Attachment F3  
Page 6 of 11

**Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities**  
**Lost Base Revenue Reconciliation**  
**January 1, 2019 to December 31, 2019**  
**(\$ in 000's)**

| Line | Description                                            | Forecast  | Forecast | Forecast | Forecast | Forecast | Forecast | Forecast | Forecast | Forecast | Forecast | Forecast | Forecast | Forecast | 2019    |
|------|--------------------------------------------------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|
|      |                                                        | Carryover | Jan 2019 | Feb 2019 | Mar 2019 | Apr 2019 | May 2019 | Jun 2019 | Jul 2019 | Aug 2019 | Sep 2019 | Oct 2019 | Nov 2019 | Dec 2019 | Total   |
|      | Col. A                                                 | Col. B    | Col. C   | Col. D   | Col. E   | Col. F   | Col. G   | Col. H   | Col. I   | Col. J   | Col. K   | Col. L   | Col. M   | Col. N   | Col. O  |
| 1    | Revenue Recovery                                       |           | 7        | 7        | 7        | 6        | 6        | 7        | 8        | 8        | 7        | 6        | 6        | 7        | 83      |
| 2    | Lost Revenues                                          |           | 1        | 3        | 4        | 6        | 7        | 9        | 10       | 12       | 13       | 15       | 16       | 17       | 114     |
| 3    | Current Month (Over)/Under Recovery                    |           | (6)      | (4)      | (2)      | (0)      | 1        | 2        | 2        | 4        | 6        | 8        | 10       | 10       | 31      |
| 4    | Cumulative (Over)/Under Recovery                       | -         | (6)      | (9)      | (11)     | (12)     | (11)     | (9)      | (7)      | (3)      | 3        | 11       | 21       | 31       |         |
| 5    | Interest @ Prime Rate                                  |           | 0.42%    | 0.42%    | 0.42%    | 0.42%    | 0.42%    | 0.42%    | 0.42%    | 0.42%    | 0.42%    | 0.42%    | 0.42%    | 0.42%    |         |
| 6    | Interest on Deferral Balance                           |           | (0)      | (0)      | (0)      | (0)      | (0)      | (0)      | (0)      | (0)      | (0)      | 0        | 0        | 0        | (0)     |
| 7    | Cummulative (Over)/Under Recovery Incl Carrying Charge |           | (6)      | (9)      | (12)     | (12)     | (11)     | (9)      | (7)      | (3)      | 3        | 11       | 20       | 31       |         |
| 8    | Monthly Sales (MWh)                                    |           | 80,095   | 72,613   | 72,933   | 67,755   | 70,480   | 76,884   | 88,660   | 89,486   | 77,813   | 71,040   | 71,774   | 78,613   | 918,145 |
| 9    | SBC Rate (LBR Component)                               |           | 0.009    | 0.009    | 0.009    | 0.009    | 0.009    | 0.009    | 0.009    | 0.009    | 0.009    | 0.009    | 0.009    | 0.009    |         |

Line 1: (Line 7 x Line 8) / 100  
Line 2: Page 5, Line 21 / 1000  
Line 3: Line 2 - Line 1  
Line 4: Prior month Line 4 + Current month Line 3  
Line 5: Prime Rate / 12  
Line 6: (Prior Month Line 4 + Current Month Line 4) / 2 x Line 5  
Line 7: Company Forecast  
Line 8: Company Forecast

Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities  
NHPUC Docket No. DE 17-136  
Revised Attachment F3  
Page 7 of 11

**Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities  
Calculation of Forecasted Average Distribution Rate for Lost Revenue  
Based on Actual Billing Determinants and Distribution Rates for 2017\***

|                                                 | (1)                                           | (2)                                            | (3) = (1) + (2)                               | (4)                          | (5)                           | (6) = (1) + (4)                                            | (7) = (2) / (5)                                             | (8) = (3) / (5)                                             |
|-------------------------------------------------|-----------------------------------------------|------------------------------------------------|-----------------------------------------------|------------------------------|-------------------------------|------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|
| <b>For the Period 01/01/17 Through 12/31/17</b> |                                               |                                                |                                               |                              |                               |                                                            |                                                             |                                                             |
| <u>Rate Class</u>                               | <u>Demand</u><br><u>Charges<sup>(a)</sup></u> | <u>Revenue</u><br><u>kWh</u><br><u>Charges</u> | <u>Total Demand</u><br><u>and kWh Charges</u> | <u>Delivery</u><br><u>kW</u> | <u>Delivery</u><br><u>kWh</u> | <u>Average</u><br><u>Distribution Rate</u><br><u>\$/kW</u> | <u>Average</u><br><u>Distribution Rate</u><br><u>\$/kWh</u> | <u>Average</u><br><u>Distribution Rate</u><br><u>\$/kWh</u> |
| Rate D                                          | \$ -                                          | \$ 12,396,923                                  | \$ 12,396,923                                 | \$ -                         | 285,033,459                   | N/A                                                        | N/A                                                         | \$ 0.04349                                                  |
| Rate D-10                                       | \$ -                                          | \$ 196,145                                     | \$ 196,145                                    | \$ -                         |                               |                                                            |                                                             |                                                             |
| Rate T                                          | \$ -                                          | \$ 579,942                                     | \$ 579,942                                    | \$ -                         |                               |                                                            |                                                             |                                                             |
| <b>Total Residential</b>                        | \$ -                                          | \$ 13,173,010                                  | \$ 13,173,010                                 | \$ -                         |                               |                                                            |                                                             |                                                             |
| Rate G-1                                        | \$ 7,343,205                                  | \$ 816,869                                     | \$ 8,160,074                                  | 945,482                      | 338,835,206                   | \$ 7.77                                                    | \$ 0.00241                                                  | \$ 0.02408                                                  |
| Rate G-2                                        | \$ -                                          | \$ 297,905                                     | \$ 297,905                                    | -                            | 146,641,437                   | \$ -                                                       | \$ 0.00203                                                  | \$ 0.00203                                                  |
| Rate G-3                                        | \$ -                                          | \$ 3,862,813                                   | \$ 3,862,813                                  | -                            | 86,877,874                    | \$ -                                                       | \$ 0.04446                                                  | \$ 0.04446                                                  |
| Rate V                                          | \$ -                                          | \$ 14,839                                      | \$ 14,839                                     | -                            | 326,822                       | \$ -                                                       | \$ 0.04540                                                  | \$ 0.04540                                                  |
| <b>Total Commercial and Industrial</b>          | \$ 7,343,205                                  | \$ 4,992,426                                   | \$ 12,335,631                                 | 945,482                      | 572,681,339                   | \$ 7.77                                                    | \$ 0.00872                                                  | \$ 0.02154                                                  |

\* Excludes the outdoor lighting Rate OL and the Customer/Meter charge revenue from each rate

(a) For Rate G-2, the demand charge is excluded from the average rate calculation as ratchet for rate class is under internal review.

Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities  
NHPUC Docket No. DE 17-136  
Revised Attachment F3  
Page 8 of 11

**Bill Impacts of Changes in System Benefits Charge - Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities**

|                                                              | <u>Current Rates*</u> | <u>2019</u> |
|--------------------------------------------------------------|-----------------------|-------------|
| System Benefits Charge (\$/kWh)                              | \$ 0.00457            | \$ 0.00535  |
| <u>Bill per month, including PSNH default energy service</u> |                       |             |
| Residential Rate D (650 kWh/month)                           | \$ 123.44             | \$ 123.95   |
| Rate G-2, 25 kW, 9,000 kWh per month                         | \$ 1,428.36           | \$ 1,436.20 |
| <u>Change from previous rate level - \$ per month</u>        |                       |             |
| Residential Rate D (650 kWh/month)                           |                       | \$ 0.51     |
| Rate G-2, 25 kW, 9,000 kWh per month                         |                       | \$ 7.84     |
| <u>Change from previous rate level - %</u>                   |                       |             |
| Residential Rate D (650 kWh/month)                           |                       | 0.41%       |
| Rate G-2, 25 kW, 9,000 kWh per month                         |                       | 0.55%       |

\* Stated at Liberty's most recent rate levels (effective August 1, 2018). Rate G-2 energy service rate is based on December 1, 2018 rate.

**Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities  
Calculation of Distribution Revenue at the Rate Levels in Effect During 2017  
Based on Billing Determinants for the Twelve Months Ending December 2017**

| <b>Residential Rate D</b> |                 |                                  |             |              |                                 |             |              |               |               |
|---------------------------|-----------------|----------------------------------|-------------|--------------|---------------------------------|-------------|--------------|---------------|---------------|
| Rate                      | Source          | January 1, 2017 - April 30, 2017 |             |              | May 1, 2017 - December 31, 2017 |             |              | 2017 Total    |               |
|                           |                 | Units                            | Rate/Charge | Revenue      | Units                           | Rate/Charge | Revenue      | Units         | Revenue       |
| Standard                  | Customer Charge | 138,699                          | \$ 12.12    | \$ 1,681,032 | 280,699                         | \$ 14.54    | \$ 4,081,363 | 419,398       | \$ 5,762,395  |
|                           | First 250 kWh   | 30,668,090                       | \$ 0.03356  | \$ 1,029,221 | 64,412,248                      | \$ 0.04061  | \$ 2,615,781 | 95,080,338    | \$ 3,645,002  |
|                           | Excess 250 kWh  | 57,407,781                       | \$ 0.05002  | \$ 2,871,537 | 109,286,196                     | \$ 0.05273  | \$ 5,762,661 | 166,693,977   | \$ 8,634,198  |
| Off Peak kWh 16 Hour      | All kWh         | 466,825                          | \$ 0.03208  | \$ 14,976    | 760,386                         | \$ 0.04185  | \$ 31,822    | 1,227,211     | \$ 46,798     |
| Farm kWh                  | All kWh         | 346,145                          | \$ 0.04179  | \$ 14,465    | 596,995                         | \$ 0.04576  | \$ 27,318    | 943,140       | \$ 41,784     |
| D-6 kWh                   | All kWh         | 271,795                          | \$ 0.03346  | \$ 9,094     | 470,356                         | \$ 0.04262  | \$ 20,047    | 742,151       | \$ 29,141     |
| Total Residential         | Customer/Meter  | 138,699                          |             | \$ 1,681,032 | 280,699                         |             | \$ 4,081,363 | 419,398       | \$ 5,762,395  |
|                           | Demand          | -                                |             | \$ -         | -                               |             | \$ -         | -             | \$ -          |
|                           | kWh             | 89,160,636                       |             | \$ 3,939,294 | 175,526,181                     |             | \$ 8,457,630 | 264,686,817   | \$ 12,396,923 |
|                           |                 |                                  |             | \$ 5,620,326 |                                 |             |              | \$ 12,538,993 | \$ 18,159,319 |

| <b>Residential Rate D-10</b> |                 |                                  |             |           |                                 |             |            |            |            |
|------------------------------|-----------------|----------------------------------|-------------|-----------|---------------------------------|-------------|------------|------------|------------|
| Rate                         | Source          | January 1, 2017 - April 30, 2017 |             |           | May 1, 2017 - December 31, 2017 |             |            | 2017 Total |            |
|                              |                 | Units                            | Rate/Charge | Revenue   | Units                           | Rate/Charge | Revenue    | Units      | Revenue    |
| Standard                     | Customer Charge | 1,747                            | \$ 12.28    | \$ 21,453 | 3,522                           | \$ 14.54    | \$ 51,210  | 5,269      | \$ 72,663  |
|                              | On Peak kWh     | 740,473                          | \$ 0.09     | \$ 69,301 | 1,167,020                       | \$ 0.10     | \$ 121,627 | 1,907,493  | \$ 190,928 |
|                              | Off Peak kWh    | 1,556,833                        | \$ 0.00     | \$ 2,569  | 1,878,578                       | \$ 0.00     | \$ 2,649   | 3,435,411  | \$ 5,218   |
| Total Rate D-10              | Customer/Meter  | 1,747                            |             | \$ 21,453 | 3,522                           |             | \$ 51,210  | 5,269      | \$ 72,663  |
|                              | Demand          | -                                |             | \$ -      | -                               |             | \$ -       | -          | \$ -       |
|                              | kWh             | 2,297,306                        |             | \$ 71,870 | 3,045,598                       |             | \$ 124,276 | 5,342,904  | \$ 196,145 |
|                              |                 |                                  |             | \$ 93,323 |                                 |             |            | \$ 175,485 | \$ 268,808 |

| <b>Commercial &amp; Industrial Rate G-1</b> |                                  |                                  |             |              |                                 |             |              |              |              |
|---------------------------------------------|----------------------------------|----------------------------------|-------------|--------------|---------------------------------|-------------|--------------|--------------|--------------|
| Rate                                        | Source                           | January 1, 2017 - April 30, 2017 |             |              | May 1, 2017 - December 31, 2017 |             |              | 2017 Total   |              |
|                                             |                                  | Units                            | Rate/Charge | Revenue      | Units                           | Rate/Charge | Revenue      | Units        | Revenue      |
| Standard                                    | Customer Charge                  | 543                              | \$ 333.68   | \$ 181,188   | 1,089                           | \$ 378.73   | \$ 412,437   | 1,632        | \$ 593,625   |
|                                             | Demand Charge                    | 298,786                          | \$ 7.11     | \$ 2,124,366 | 646,696                         | \$ 8.07     | \$ 5,218,837 | 945,482      | \$ 7,343,205 |
|                                             | On Peak kWh                      | 49,493,794                       | \$ 0.00     | \$ 244,004   | 82,981,478                      | \$ 0.01     | \$ 428,184   | 132,475,272  | \$ 672,189   |
|                                             | Off Peak kWh                     | 63,406,470                       | \$ 0.00173  | \$ 109,693   | 142,540,567                     | \$ 0.00152  | \$ 216,662   | 205,947,037  | \$ 326,355   |
|                                             | Credit for High Voltage Delivery | 110,121                          | \$ (0.44)   | \$ (48,453)  | 302,776                         | \$ (0.44)   | \$ (133,221) | 412,897      | \$ (181,675) |
| Total Rate G-1                              | Customer/Meter                   | 543                              |             | \$ 181,188   | 1,089                           |             | \$ 412,437   | 1,632        | \$ 593,625   |
|                                             | Demand                           | 298,786                          |             | \$ 2,124,368 | 646,696                         |             | \$ 5,218,837 | 945,482      | \$ 7,343,205 |
|                                             | kWh                              | 113,010,385                      |             | \$ 395,244   | 225,824,821                     |             | \$ 511,625   | 338,835,206  | \$ 816,869   |
|                                             |                                  |                                  |             | \$ 2,610,801 |                                 |             |              | \$ 6,142,898 | \$ 8,753,699 |

| <b>Commercial Rate G-2</b> |                                  |                                  |             |              |                                 |             |              |              |              |
|----------------------------|----------------------------------|----------------------------------|-------------|--------------|---------------------------------|-------------|--------------|--------------|--------------|
| Rate                       | Source                           | January 1, 2017 - April 30, 2017 |             |              | May 1, 2017 - December 31, 2017 |             |              | 2017 Total   |              |
|                            |                                  | Units                            | Rate/Charge | Revenue      | Units                           | Rate/Charge | Revenue      | Units        | Revenue      |
| Standard                   | Customer Charge                  | 3,473                            | \$ 55.64    | \$ 193,238   | 7,134                           | \$ 63.15    | \$ 450,512   | 10,607       | \$ 643,750   |
|                            | Demand Charge                    | 164,862                          | \$ 7.15     | \$ 1,178,763 | 338,414                         | \$ 8.12     | \$ 2,747,922 | 503,276      | \$ 3,926,685 |
|                            | All kWh                          | 48,189,518                       | \$ 0.00213  | \$ 102,644   | 98,448,203                      | \$ 0.00200  | \$ 196,896   | 146,637,721  | \$ 299,540   |
|                            | Credit for High Voltage Delivery | 1,530                            | \$ (0.44)   | \$ (673)     | 2,186                           | \$ (0.44)   | \$ (962)     | 3,716        | \$ (1,635)   |
| Total Rate G-2             | Customer/Meter                   | 3,473                            |             | \$ 193,238   | 7,134                           |             | \$ 450,512   | 10,607       | \$ 643,750   |
|                            | Demand                           | 164,862                          |             | \$ 1,178,763 | 338,414                         |             | \$ 2,747,922 | 503,276      | \$ 3,926,685 |
|                            | kWh                              | 48,191,048                       |             | \$ 101,970   | 98,450,389                      |             | \$ 195,935   | 146,641,437  | \$ 297,905   |
|                            |                                  |                                  |             | \$ 1,473,971 |                                 |             |              | \$ 3,394,368 | \$ 4,888,340 |

| <b>General Service Rate G-3</b> |                 |                                  |             |              |                                 |             |              |              |              |
|---------------------------------|-----------------|----------------------------------|-------------|--------------|---------------------------------|-------------|--------------|--------------|--------------|
| Rate                            | Source          | January 1, 2017 - April 30, 2017 |             |              | May 1, 2017 - December 31, 2017 |             |              | 2017 Total   |              |
|                                 |                 | Units                            | Rate/Charge | Revenue      | Units                           | Rate/Charge | Revenue      | Units        | Revenue      |
| Standard                        | Customer Charge | 22,190                           | \$ 12.03    | \$ 266,946   | 44,834                          | \$ 14.54    | \$ 651,886   | 67,024       | \$ 918,832   |
|                                 | All kWh         | 30,261,252                       | \$ 0.04153  | \$ 1,256,750 | 56,616,622                      | \$ 0.04603  | \$ 2,606,063 | 86,877,874   | \$ 3,862,813 |
| Total Rate G-3                  | Customer/Meter  | 22,190                           |             | \$ 266,946   | 44,834                          |             | \$ 651,886   | 67,024       | \$ 918,832   |
|                                 | Demand          | -                                |             | \$ -         | -                               |             | \$ -         | -            | \$ -         |
|                                 | kWh             | 30,261,252                       |             | \$ 1,256,750 | 56,616,622                      |             | \$ 2,606,063 | 86,877,874   | \$ 3,862,813 |
|                                 |                 |                                  |             | \$ 1,523,695 |                                 |             |              | \$ 3,257,949 | \$ 4,781,645 |

| Electric Heat Rate V |                 |         |          |                                  |            |                                 |           |            |           |
|----------------------|-----------------|---------|----------|----------------------------------|------------|---------------------------------|-----------|------------|-----------|
| Rate                 |                 | Source  |          | January 1, 2017 - April 30, 2017 |            | May 1, 2017 - December 31, 2017 |           | 2017 Total |           |
| Standard             | Customer Charge | 71      | \$ 12.07 | 857                              | \$ 14.54   | 2,094                           | \$ 2,951  | 215        | \$ 2,951  |
| Total Rate V         | Customer/Meter  | 71      | \$ 857   | 144                              | \$ 2,094   | 215                             | \$ 2,951  | 326,822    | \$ 14,839 |
|                      | Demand          | -       | \$ -     | 195,019                          | \$ 0.04732 | 9,228                           | \$ 14,839 | 14,839     | \$ 17,790 |
|                      | kWh             | 131,803 | \$ 5,611 | 195,019                          | \$ 0.04732 | 9,228                           | \$ 14,839 | 14,839     | \$ 17,790 |
|                      |                 |         | \$ 6,468 |                                  | \$ 11,322  |                                 | \$ 17,790 |            | \$ 17,790 |

| Total Retail |                | January 1, 2017 - June 30, 2017 |             | July 1, 2017 - December 31, 2017 |             |
|--------------|----------------|---------------------------------|-------------|----------------------------------|-------------|
| Type         | Source         | Revenue                         | Units       | Revenue                          | Units       |
| Total Retail | Customer/Meter | \$ 2,393,101.17                 | 341,834     | \$ 5,764,863                     | 512,507     |
|              | Fidures        | \$ 28,727                       | 57,899      | \$ 656,610                       | 86,626      |
|              | Demand         | \$ 3,303,132                    | 895,110     | \$ 12,229,755                    | 1,448,758   |
|              | kWh            | \$ 5,835,811                    | 567,772,260 | \$ 17,229,626                    | 857,714,798 |
|              |                | \$ 11,918,889                   |             | \$ 26,483,674                    |             |
|              |                |                                 |             | \$ 38,402,662                    |             |
|              |                |                                 |             | \$ 18,165,436                    |             |
|              |                |                                 |             | \$ 11,135,707                    |             |
|              |                |                                 |             | \$ 943,555                       |             |
|              |                |                                 |             | \$ 8,157,864                     |             |
|              |                |                                 |             |                                  | 2017 Total  |

| Lost Base Revenue                                                              |            |                                 |              |                                  |               |                           |
|--------------------------------------------------------------------------------|------------|---------------------------------|--------------|----------------------------------|---------------|---------------------------|
| Summary of Data Included in the Calculation of the Average Distribution Rates* |            |                                 |              |                                  |               |                           |
| Type                                                                           | Source     | January 1, 2017 - June 30, 2017 |              | July 1, 2017 - December 31, 2017 |               | 2017 Total                |
|                                                                                |            | Units                           | Revenue      | Units                            | Revenue       | Units Revenue             |
| Total Rate D                                                                   | Demand kWh | -                               | \$ -         | -                                | \$ -          | - \$ -                    |
|                                                                                |            | 89,160,636                      | \$ 3,939,294 | 175,526,181                      | \$ 8,457,630  | 264,686,817 \$ 12,396,923 |
|                                                                                |            |                                 | \$ 3,939,294 |                                  | \$ 8,457,630  | \$ 12,396,923             |
| Total Rate D-10                                                                | Demand kWh | -                               | \$ -         | -                                | \$ -          | - \$ -                    |
|                                                                                |            | 2,297,306                       | \$ 71,870    | 3,045,598                        | \$ 124,276    | 5,342,904 \$ 196,145      |
|                                                                                |            |                                 | \$ 71,870    |                                  | \$ 124,276    | \$ 196,145                |
| Total Rate G-1                                                                 | Demand kWh | 298,786                         | \$ 2,124,368 | 646,696                          | \$ 5,218,837  | 945,482 \$ 7,343,205      |
|                                                                                |            | 113,010,385                     | \$ 305,244   | 225,824,821                      | \$ 511,625    | 338,835,206 \$ 816,869    |
|                                                                                |            |                                 | \$ 2,429,613 |                                  | \$ 5,730,461  | \$ 8,160,074              |
| Total Rate G-2                                                                 | Demand kWh | 164,862                         | \$ 1,178,763 | 338,414                          | \$ 2,747,922  | 503,276 \$ 3,926,685      |
|                                                                                |            | 48,191,048                      | \$ 101,970   | 98,450,389                       | \$ 195,935    | 146,641,437 \$ 297,905    |
|                                                                                |            |                                 | \$ 1,280,734 |                                  | \$ 2,943,856  | \$ 4,224,590              |
| Total Rate G-3                                                                 | Demand kWh | -                               | \$ -         | -                                | \$ -          | - \$ -                    |
|                                                                                |            | 30,261,252                      | \$ 1,256,750 | 56,616,622                       | \$ 2,606,063  | 86,877,874 \$ 3,862,813   |
|                                                                                |            |                                 | \$ 1,256,750 |                                  | \$ 2,606,063  | \$ 3,862,813              |
| Total Rate T                                                                   | Demand kWh | -                               | \$ -         | -                                | \$ -          | - \$ -                    |
|                                                                                |            | 6,890,108                       | \$ 255,072   | 8,113,630                        | \$ 324,870    | 15,003,738 \$ 579,942     |
|                                                                                |            |                                 | \$ 255,072   |                                  | \$ 324,870    | \$ 579,942                |
| Total Rate V                                                                   | Demand kWh | -                               | \$ -         | -                                | \$ -          | - \$ -                    |
|                                                                                |            | 131,803                         | \$ 5,611     | 195,019                          | \$ 9,228      | 326,822 \$ 14,839         |
|                                                                                |            |                                 | \$ 5,611     |                                  | \$ 9,228      | \$ 14,839                 |
| Total                                                                          | Demand kWh | 463,648                         | \$ 3,303,132 | 176,511,291                      | \$ 7,966,758  | 1,448,758 \$ 11,269,890   |
|                                                                                |            | 259,681,286                     | \$ 4,679,061 | 511,155,638                      | \$ 9,623,563  | 755,506,364 \$ 18,165,436 |
|                                                                                |            |                                 | \$ 7,982,193 |                                  | \$ 17,590,321 | \$ 29,435,327             |

New Hampshire Electric Cooperative, Inc.  
NHPUC Docket No. DE 17-136  
Attachment G3  
Page 1 of 3

**New Hampshire Electric Cooperative, Inc.  
2019 System Benefits Charge ("SBC") Calculation  
(\$ in 000's)**

| Year   | EE<br>Total Budget | RGGI<br>Revenues | FCM<br>Revenues | Carryforward<br>with Interest | SBC<br>Requirement | Forecasted<br>Distribution<br>(MWH) | SBC Rate<br>EE Portion<br>(cents/kWh) | SBC Rate<br>EAP Portion<br>(cents/kWh) | 2018<br>Total SBC Rate<br>(cents/kWh) |
|--------|--------------------|------------------|-----------------|-------------------------------|--------------------|-------------------------------------|---------------------------------------|----------------------------------------|---------------------------------------|
| Col. A | Col. B             | Col. C           | Col. D          | Col. F                        | Col. H             | Col. I                              | Col. J                                | Col. K                                 | Col. M                                |
| 2019   | \$ 3,159           | \$ 201           | \$ 75           | \$ 57                         | \$ 2,826           | 757,675                             | 0.373                                 | 0.150                                  | 0.523                                 |

Col. A: Effective year (January 1, 2018 - December 31, 2018)  
Col. B: Budget Projections  
Col. C: Budget Projections  
Col. D: Budget Projections  
Col. F: Budget Projections  
Col. H: Col. B - Col. C - Col. D - Col. E + Col. F - Col. G  
Col. I: Company Forecast  
Col. J: (Col. H / Col. I) x 100  
Col. K: EAP Portion of SBC Rate  
Col. M: Col. J + Col. K

New Hampshire Electric Cooperative, Inc.  
NHPUC Docket No. DE 17-136  
Attachment G3  
Page 2 of 3

**2019 System Benefits Charge ("SBC") Calculation  
Energy Efficiency Expense & SBC Revenue Reconciliation  
January 1, 2019 to December 31, 2019  
(\$ in 000's)**

| Line | Description                         | Carryover<br>12/31/17 | Forecast<br>Jan 2019 | Forecast<br>Feb 2019 | Forecast<br>Mar 2019 | Forecast<br>Apr 2019 | Forecast<br>May 2019 | Forecast<br>June 2019 | Forecast<br>Jul 2019 | Forecast<br>Aug 2019 | Forecast<br>Sep 2019 | Forecast<br>Oct 2019 | Forecast<br>Nov 2019 | Forecast<br>Dec 2019 | 2019<br>Total  |
|------|-------------------------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------|
|      | Col. A                              | Col. B                | Col. C               | Col. D               | Col. E               | Col. F               | Col. G               | Col. H                | Col. I               | Col. J               | Col. K               | Col. L               | Col. M               | Col. N               | Col. O         |
| 1    | SBC Revenues                        | 56,949                | 303                  | 289                  | 239                  | 235                  | 179                  | 202                   | 226                  | 224                  | 265                  | 201                  | 213                  | 251                  | 2,826          |
| 2    | RGGI Revenues                       |                       | 17                   | 17                   | 17                   | 17                   | 17                   | 17                    | 17                   | 17                   | 17                   | 17                   | 17                   | 17                   | 201            |
| 3    | FCM Revenues                        |                       | 6                    | 6                    | 6                    | 6                    | 6                    | 6                     | 6                    | 6                    | 6                    | 6                    | 6                    | 6                    | 75             |
| 6    | <b>Total Revenues</b>               |                       | <b>326</b>           | <b>312</b>           | <b>263</b>           | <b>258</b>           | <b>202</b>           | <b>225</b>            | <b>249</b>           | <b>247</b>           | <b>288</b>           | <b>224</b>           | <b>236</b>           | <b>274</b>           | <b>3,102</b>   |
| 6    | Program Expenses                    |                       | 263                  | 263                  | 263                  | 263                  | 263                  | 263                   | 263                  | 263                  | 263                  | 263                  | 263                  | 263                  | 3,159          |
| 7    | <b>Total Program Expenses</b>       |                       | <b>263</b>           | <b>263</b>           | <b>263</b>           | <b>263</b>           | <b>263</b>           | <b>263</b>            | <b>263</b>           | <b>263</b>           | <b>263</b>           | <b>263</b>           | <b>263</b>           | <b>263</b>           | <b>3,159</b>   |
| 8    | Current Month Over/(Under) Recovery |                       | 62                   | 49                   | (1)                  | (5)                  | (61)                 | (38)                  | (14)                 | (17)                 | 25                   | (39)                 | (28)                 | 11                   |                |
| 9    | Cummulative Over/(Under) Recovery   | 57                    | 119                  | 168                  | 167                  | 162                  | 101                  | 63                    | 48                   | 32                   | 56                   | 17                   | (11)                 | 0                    |                |
| 12   | Interest @ Prime Rate               |                       |                      | 0.00%                | 0.00%                | 0.00%                | 0.00%                | 0.00%                 | 0.00%                | 0.00%                | 0.00%                | 0.00%                | 0.00%                | 0.00%                |                |
| 13   | Interest                            |                       | -                    | -                    | -                    | -                    | -                    | -                     | -                    | -                    | -                    | -                    | -                    | -                    | -              |
| 14   | <b>Monthly Sales (MWh)</b>          |                       | <b>81,153</b>        | <b>77,433</b>        | <b>64,207</b>        | <b>63,119</b>        | <b>47,981</b>        | <b>54,134</b>         | <b>60,534</b>        | <b>59,957</b>        | <b>71,013</b>        | <b>53,897</b>        | <b>56,974</b>        | <b>67,272</b>        | <b>757,676</b> |
| 15   | <b>EE SBC Rate</b>                  |                       | <b>0.373</b>         | <b>0.373</b>         | <b>0.373</b>         | <b>0.373</b>         | <b>0.373</b>         | <b>0.373</b>          | <b>0.373</b>         | <b>0.373</b>         | <b>0.373</b>         | <b>0.373</b>         | <b>0.373</b>         | <b>0.373</b>         |                |

Line 1: (Line 14 x Line 15) / 100  
Line 2: Page 1, Col. C  
Line 3: Page 1, Col. D  
Line 5: Sum of Lines 1 through Lines 4  
Line 6: Page 1, Col. B  
Line 7: Sum of Line 6  
Line 8: Line 5 - Line 7  
Line 9: Prior month Line 9 + Current month Line 9  
Line 12: Prime Rate / 12  
Line 13: (Prior Month Line 9 + Current Month Line 9) / 2 x Line 12  
Line 14: Company Forecast  
Line 15: Page 1, Col. J

New Hampshire Electric Cooperative, Inc.  
NHPUC Docket No. DE 17-136  
Attachment G3  
Page 3 of 3

**2019 System Benefits Charge ("SBC") Calculation**

|                                                                       | <u>01/01/2018</u> | <u>2019</u> |
|-----------------------------------------------------------------------|-------------------|-------------|
| System Benefits Charge (\$/kWh)                                       | \$ 0.00425        | \$ 0.00523  |
| <u>Bill per month, including NHEC default energy service</u>          |                   |             |
| Residential Rate Basic (625 kWh/month)                                | \$ 200.29         | \$ 200.90   |
| Commercial B3, three-phase service ( <50 kW, 10,000 kWh/month)        | \$ 1,825.60       | \$ 1,835.40 |
| <u>Change from previous rate level - \$ per month</u>                 |                   |             |
| Residential Rate R (625 kWh/month)                                    |                   | \$ 0.61     |
| General Service Rate G, three-phase service (40 kW, 10,000 kWh/month) |                   | \$ 9.80     |
| <u>Change from previous rate level - %</u>                            |                   |             |
| Residential Rate R (625 kWh/month)                                    |                   | 0.3%        |
| General Service Rate G, three-phase service (40 kW, 10,000 kWh/month) |                   | 0.5%        |

Unitil Energy System, Inc.  
2019 System Benefits Charge ("SBC") Calculation

Unitil Energy Systems, Inc.  
NHPUC Docket No. DE 17-136  
Attachment H3 (2019 Update)  
Page 1 of 11  
REVISED

| Year   | EE<br>Total Budget | RGGI<br>Revenues | FCM<br>Revenues | Other<br>Revenues | Prior Year<br>Deferral<br>with Interest | Current<br>Year<br>Interest | Projected<br>Ending<br>Balance | SBC<br>Requirement | Forecasted<br>Distribution<br>(kWh) | SBC Rate<br>EE Portion<br>(\$/kWh) | SBC Rate<br>EAP Portion<br>(\$/kWh) | SBC Rate<br>LBR Portion<br>(\$/kWh) | 2018<br>Total SBC Rate<br>(\$/kWh) |
|--------|--------------------|------------------|-----------------|-------------------|-----------------------------------------|-----------------------------|--------------------------------|--------------------|-------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|------------------------------------|
| Col. A | Col. B             | Col. C           | Col. D          | Col. E            | Col. F                                  | Col. G                      | Col. H                         | Col. I             | Col. J                              | Col. K                             | Col. L                              | Col. M                              | Col. N                             |
| 2019   | \$ 5,674,619       | \$ 284,017       | \$ 650,000      | \$ (375,000)      | \$ (751,289)                            | -                           | \$ (116,217)                   | \$ 4,480,530       | 1,201,214,515                       | \$0.00373                          | \$0.00150                           | \$0.00053                           | \$0.00576                          |

Col. A: Effective year (January 1, 2019 - December 31, 2019)  
Col. B: Company Forecast  
Col. C: Company Forecast  
Col. D: Company Forecast  
Col. E: Company Forecast  
Col. F: Page 2, Line 15  
Col. G: Page 3, Line 14 (2019)  
Col. H: Page 3, Line 15 - Line 14 (2019)  
Col. I: Col. B - Col. C - Col. D - Col. E + Col. F - Col. H.  
Col. J: Company Forecast  
Col. K: Col. I / Col. J  
Col. L: EAP Portion of SBC Rate  
Col. M: Page 4, Col. G  
Col. N: Col. K + Col. L + Col. M

**Unitil Energy System, Inc.**  
**Energy Efficiency Expense & SBC Revenue Reconciliation**  
**January 1, 2018 to December 31, 2018**

Unitil Energy Systems, Inc.  
NHPUC Docket No. DE 17-136  
Attachment H3 (2019 Update)  
Page 2 of 11

|                                               | <b>Jan-18</b>  | <b>Feb-18</b>  | <b>Mar-18</b>  | <b>Apr-18</b>  | <b>May-18</b>  | <b>Jun-18</b>  | <b>Jul-18</b>   | <b>Aug-18</b>   | <b>Sep-18</b>   | <b>Oct-18</b>   | <b>Nov-18</b>   | <b>Dec-18</b>   | <b>Total</b>  |
|-----------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------|
|                                               | <b>Actual</b>  | <b>Actual</b>  | <b>Actual</b>  | <b>Actual</b>  | <b>Actual</b>  | <b>Actual</b>  | <b>Estimate</b> | <b>Estimate</b> | <b>Estimate</b> | <b>Estimate</b> | <b>Estimate</b> | <b>Estimate</b> |               |
| 1 Beginning Balance -- (Over)/Under Recovery  | \$ (902,211)   | \$ (1,123,339) | \$ (1,372,966) | \$ (1,517,981) | \$ (1,458,772) | \$ (1,570,773) | \$ (1,636,334)  | \$ (1,518,546)  | \$ (1,417,310)  | \$ (1,311,413)  | \$ (1,129,810)  | \$ (979,521)    |               |
| 2 Total Costs                                 | 192,289        | 94,952         | 186,137        | 440,025        | 206,876        | 279,686        | 459,592         | 475,140         | 505,072         | 501,055         | 516,603         | 551,718         | \$ 4,409,145  |
| <b>Revenues</b>                               |                |                |                |                |                |                |                 |                 |                 |                 |                 |                 |               |
| 3 Class Sales (inc. LI) -- kWh                | 118,288,676    | 101,459,074    | 96,543,317     | 90,962,753     | 89,782,560     | 99,348,233     | 106,831,221     | 118,664,655     | 102,211,561     | 99,131,725      | 90,622,227      | 101,145,878     | 1,214,991,881 |
| 4 Charge -- \$/kWh                            | \$ 0.00275     | \$ 0.00275     | \$ 0.00275     | \$ 0.00275     | \$ 0.00275     | \$ 0.00275     | \$ 0.00275      | \$ 0.00275      | \$ 0.00275      | \$ 0.00275      | \$ 0.00275      | \$ 0.00275      |               |
| 5 Energy Efficiency Revenues                  | \$ 280,310     | \$ 278,976     | \$ 265,486     | \$ 250,115     | \$ 246,857     | \$ 273,208     | \$ 293,786      | \$ 326,328      | \$ 281,082      | \$ 272,612      | \$ 249,211      | \$ 278,151      | \$ 3,296,122  |
| 6 Forward Capacity Market Revenue             | \$ 62,392      | \$ 61,540      | \$ 62,058      | \$ 61,507      | \$ 66,241      | \$ 66,120      | \$ 41,667       | \$ 41,667       | \$ 41,667       | \$ 41,667       | \$ 41,667       | \$ 41,667       | \$ 629,858    |
| 7 RGGI Funding                                | \$ 67,066      | \$ -           | \$ -           | \$ 63,698      | \$ -           | \$ -           | \$ -            | \$ -            | \$ 71,111       | \$ -            | \$ 71,111       | \$ -            | \$ 272,987    |
| 8 Other Revenues                              | \$ -           | \$ -           | \$ -           | \$ -           | \$ -           | \$ -           | \$ -            | \$ -            | \$ -            | \$ -            | \$ -            | \$ -            |               |
| 9 Total Revenues                              | \$ 409,768     | \$ 340,517     | \$ 327,544     | \$ 375,321     | \$ 313,098     | \$ 339,327     | \$ 335,453      | \$ 367,994      | \$ 393,860      | \$ 314,279      | \$ 361,989      | \$ 319,818      | \$ 4,198,967  |
| 10 (Over)/Under Recovery (excluding interest) | \$ (1,119,690) | \$ (1,368,903) | \$ (1,514,373) | \$ (1,453,277) | \$ (1,564,994) | \$ (1,630,414) | \$ (1,512,195)  | \$ (1,411,400)  | \$ (1,306,097)  | \$ (1,124,638)  | \$ (975,196)    | \$ (747,622)    |               |
| <b>Interest Calculation</b>                   |                |                |                |                |                |                |                 |                 |                 |                 |                 |                 |               |
| 11 Average Monthly Balance                    | \$ (1,010,950) | \$ (1,246,121) | \$ (1,443,670) | \$ (1,485,629) | \$ (1,511,883) | \$ (1,600,593) | \$ (1,574,264)  | \$ (1,464,973)  | \$ (1,361,704)  | \$ (1,218,026)  | \$ (1,052,503)  | \$ (863,571)    |               |
| 12 Interest Rate                              | 4.25%          | 4.25%          | 4.25%          | 4.50%          | 4.50%          | 4.50%          | 4.75%           | 4.75%           | 4.75%           | 5.00%           | 5.00%           | 5.00%           |               |
| 13 Days per Month                             | 31             | 28             | 31             | 30             | 31             | 30             | 31              | 31              | 30              | 31              | 30              | 31              | 365           |
| 14 Computed Interest                          | \$ (3,649)     | \$ (4,063)     | \$ (3,608)     | \$ (5,495)     | \$ (5,778)     | \$ (5,920)     | \$ (6,351)      | \$ (5,910)      | \$ (5,316)      | \$ (5,172)      | \$ (4,325)      | \$ (3,667)      | \$ (59,255)   |
| 15 Ending Balance                             | \$ (1,123,339) | \$ (1,372,966) | \$ (1,517,981) | \$ (1,458,772) | \$ (1,570,773) | \$ (1,636,334) | \$ (1,518,546)  | \$ (1,417,310)  | \$ (1,311,413)  | \$ (1,129,810)  | \$ (979,521)    | \$ (751,289)    |               |

Line 1: Prior period ending balance  
Line 2: Page 1, Col. B  
Line 3: Company Forecast  
Line 4: Page 1, Col. J  
Line 5: Line 3 \* Line 4  
Line 6: Page 1, Col. D  
Line 7: Page 1, Col. C  
Line 8: Page 1, Col. E  
Line 9: Sum of Lines 5 through 8  
Line 10: Line 1 + Line 2 - Line 9  
Line 11: (Line 1 + Line 10)/2  
Line 12: Prime Rate  
Line 14: Line 11 \* ((Line 12/# days per year) \* Line 13))  
Line 15: Line 10 + Line 14

Unitil Energy System, Inc.  
Energy Efficiency Expense & SBC Revenue Reconciliation  
January 1, 2019 to December 31, 2019

Unitil Energy Systems, Inc.  
NHPUC Docket No. DE 17-136  
Attachment H3 (2019 Update)  
Page 3 of 11  
REVISED

|                                               | Jan-19          | Feb-19          | Mar-19          | Apr-19          | May-19          | Jun-19          | Jul-19          | Aug-19          | Sep-19          | Oct-19          | Nov-19          | Dec-19          | Total         |
|-----------------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------|
|                                               | <u>Estimate</u> | <u>Estimate</u> | <u>Estimate</u> | <u>Estimate</u> | <u>Estimate</u> | <u>Estimate</u> | <u>Estimate</u> | <u>Estimate</u> | <u>Estimate</u> | <u>Estimate</u> | <u>Estimate</u> | <u>Estimate</u> |               |
| 1 Beginning Balance -- (Over)/Under Recovery  | \$ (751,289)    | \$ (473,872)    | \$ (518,337)    | \$ (575,133)    | \$ (545,865)    | \$ (485,140)    | \$ (470,435)    | \$ (474,904)    | \$ (478,903)    | \$ (448,240)    | \$ (367,029)    | \$ (289,588)    |               |
| 2 Total Costs                                 | 380,327         | 396,253         | 429,731         | 428,105         | 444,030         | 477,508         | 475,882         | 491,808         | 525,286         | 518,350         | 534,276         | 573,063         | \$ 5,674,619  |
| <b>Revenues</b>                               |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |               |
| 3 Class Sales (inc. LI) -- kWh                | 112,908,398     | 103,123,873     | 96,257,212      | 91,788,542      | 87,655,211      | 89,992,803      | 113,721,294     | 117,860,381     | 98,538,970      | 102,210,521     | 88,557,184      | 98,600,127      | 1,201,214,515 |
| 4 Charge -- \$/kWh                            | \$ 0.00373      | \$ 0.00373      | \$ 0.00373      | \$ 0.00373      | \$ 0.00373      | \$ 0.00373      | \$ 0.00373      | \$ 0.00373      | \$ 0.00373      | \$ 0.00373      | \$ 0.00373      | \$ 0.00373      |               |
| 5 Energy Efficiency Revenues                  | \$ 421,148      | \$ 384,652      | \$ 359,039      | \$ 342,371      | \$ 326,954      | \$ 335,673      | \$ 424,180      | \$ 439,619      | \$ 367,550      | \$ 381,245      | \$ 330,318      | \$ 367,778      | \$ 4,480,530  |
| 6 Forward Capacity Market Revenue             | \$ 54,167       | \$ 54,167       | \$ 54,167       | \$ 54,167       | \$ 54,167       | \$ 54,167       | \$ 54,167       | \$ 54,167       | \$ 54,167       | \$ 54,167       | \$ 54,167       | \$ 54,167       | \$ 650,000    |
| 7 RGGI Funding                                | \$ -            | \$ -            | \$ 71,004       | \$ -            | \$ -            | \$ 71,004       | \$ -            | \$ -            | \$ 71,004       | \$ -            | \$ 71,004       | \$ -            | \$ 284,017    |
| 8 Other Revenues                              | \$ (375,000)    | \$ -            | \$ -            | \$ -            | \$ -            | \$ -            | \$ -            | \$ -            | \$ -            | \$ -            | \$ -            | \$ -            | \$ (375,000)  |
| 9 Total Revenues                              | \$ 100,315      | \$ 438,819      | \$ 484,210      | \$ 396,538      | \$ 381,121      | \$ 460,844      | \$ 478,347      | \$ 493,786      | \$ 492,721      | \$ 435,412      | \$ 455,489      | \$ 421,945      | \$ 5,039,547  |
| 10 (Over)/Under Recovery (excluding interest) | \$ (471,276)    | \$ (516,438)    | \$ (572,816)    | \$ (543,567)    | \$ (482,955)    | \$ (468,476)    | \$ (472,901)    | \$ (476,882)    | \$ (446,339)    | \$ (365,301)    | \$ (288,242)    | \$ (138,471)    |               |
| <b>Interest Calculation</b>                   |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |               |
| 11 Average Monthly Balance                    | \$ (611,283)    | \$ (495,155)    | \$ (545,577)    | \$ (559,350)    | \$ (514,410)    | \$ (476,808)    | \$ (471,668)    | \$ (475,893)    | \$ (462,621)    | \$ (406,771)    | \$ (327,635)    | \$ (214,030)    |               |
| 12 Interest Rate                              | 5.00%           | 5.00%           | 5.00%           | 5.00%           | 5.00%           | 5.00%           | 5.00%           | 5.00%           | 5.00%           | 5.00%           | 5.00%           | 5.00%           |               |
| 13 Days per Month                             | 31              | 28              | 31              | 30              | 31              | 30              | 31              | 31              | 30              | 31              | 30              | 31              | 365           |
| 14 Computed Interest                          | \$ (2,596)      | \$ (1,899)      | \$ (2,317)      | \$ (2,299)      | \$ (2,184)      | \$ (1,959)      | \$ (2,003)      | \$ (2,021)      | \$ (1,901)      | \$ (1,727)      | \$ (1,346)      | \$ (909)        | \$ (23,162)   |
| 15 Ending Balance                             | \$ (473,872)    | \$ (518,337)    | \$ (575,133)    | \$ (545,865)    | \$ (485,140)    | \$ (470,435)    | \$ (474,904)    | \$ (478,903)    | \$ (448,240)    | \$ (367,029)    | \$ (289,588)    | \$ (139,380)    |               |

Line 1: Prior period ending balance  
Line 2: Page 1, Col. B  
Line 3: Company Forecast  
Line 4: Page 1, Col. J  
Line 5: Line 3 \* Line 4  
Line 6: Page 1, Col. D  
Line 7: Page 1, Col. C  
Line 8: Page 1, Col. E  
Line 9: Sum of Lines 5 through 8  
Line 10: Line 1 + Line 2 - Line 9  
Line 11: (Line 1 + Line 10)/2  
Line 12: Prime Rate  
Line 14: Line 11 \* ((Line 12/# days per year) \* Line 13))  
Line 15: Line 10 + Line 14

**Unitil Energy System, Inc.**  
**2019 System Benefits Charge Calculation (LBR Component)**

Unitil Energy Systems, Inc.  
NHPUC Docket No. DE 17-136  
Attachment H3 (2019 Update)  
Page 4 of 11  
REVISED

| Year   | Forecasted<br>LBR<br>Revenue | Prior Year<br>Deferral<br>with Interest | Current<br>Year<br>Interest | Total<br>LBR<br>Revenue | Forecasted<br>Distribution<br>(kWh) | SBC Rate<br>LBR Portion<br>(\$/kWh) |
|--------|------------------------------|-----------------------------------------|-----------------------------|-------------------------|-------------------------------------|-------------------------------------|
| Col. A | Col. B                       | Col. C                                  | Col. D                      | Col. E                  | Col. F                              | Col. G                              |
| 2019   | \$ 607,056                   | \$ 26,475                               | \$ (149)                    | \$ 633,382              | 1,201,214,515                       | \$ 0.00053                          |

Col. A: Effective year (January 1, 2019 - December 31, 2019)  
Col. B: Page 5, Line 12, Col. O  
Col. C: Prior Year LBR Component Over/(Under) recovery, with interest, Page 6 Line 9  
Col. D: Page 7, Col. O, Line 8  
Col. E: Col. B + Col. C + Col. D  
Col. F: Company Forecast  
Col. G: Col. E/Col. F

Unitil Energy System, Inc.  
Estimated Monthly and Cumulative Savings (kWh) and Lost Base Revenue  
January 1, 2018 to December 31, 2019

Unitil Energy Systems, Inc.  
NHPUC Docket No. DE 17-136  
Attachment H3 (2019 Update)  
Page 5 of 11  
REVISED

| Line | Description                           | 12/31/2017 | Forecast<br>Jan 2018 | Forecast<br>Feb 2018 | Forecast<br>Mar 2018 | Forecast<br>Apr 2018 | Forecast<br>May 2018 | Forecast<br>June 2018 | Forecast<br>Jul 2018 | Forecast<br>Aug 2018 | Forecast<br>Sep 2018 | Forecast<br>Oct 2018 | Forecast<br>Nov 2018 | Forecast<br>Dec 2018 | 2018<br>Annual Savings    |
|------|---------------------------------------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------------|
|      | Col A                                 | Col B      | Col C                | Col D                | Col E                | Col F                | Col G                | Col H                 | Col I                | Col J                | Col K                | Col L                | Col M                | Col N                | Col O                     |
| 1    | Residential Annualized Savings        |            | 207,085              | 216,358              | 225,630              | 234,903              | 244,175              | 253,448               | 262,720              | 271,993              | 281,265              | 287,447              | 296,719              | 309,083              | 3,090,828                 |
| 2    | C&I Annualized Savings                |            | 379,202              | 363,046              | 409,891              | 426,738              | 443,581              | 460,428               | 477,271              | 494,115              | 510,960              | 522,190              | 539,035              | 561,495              | 5,614,948                 |
| 3    | Total                                 |            | 583,287              | 609,404              | 635,522              | 661,639              | 687,756              | 713,874               | 739,991              | 766,108              | 792,226              | 809,637              | 835,754              | 870,578              | 8,705,776                 |
|      |                                       |            | Jan 2018             | Feb 2018             | Mar 2018             | Apr 2018             | May 2018             | June 2018             | Jul 2018             | Aug 2018             | Sep 2018             | Oct 2018             | Nov 2018             | Dec 2018             | Cumulative<br>LBR Savings |
| 4    | Monthly Residential Savings           |            | 17,257               | 18,030               | 18,803               | 19,575               | 20,348               | 21,121                | 21,893               | 22,666               | 23,439               | 23,954               | 24,727               | 25,757               |                           |
| 5    | Cumulative Residential Savings        | 112,018    | 129,275              | 147,305              | 166,108              | 185,883              | 206,031              | 227,152               | 249,045              | 271,711              | 295,150              | 319,104              | 343,830              | 369,587              | 2,909,980                 |
| 6    | Average Residential Distribution Rate |            | 0.03682              | 0.03682              | 0.03682              | 0.03682              | 0.03537              | 0.03537               | 0.03537              | 0.03537              | 0.03537              | 0.03537              | 0.03537              | 0.03537              |                           |
| 7    | Lost Residential Revenue              |            | \$ 4,760             | \$ 5,424             | \$ 6,116             | \$ 6,837             | \$ 7,287             | \$ 8,034              | \$ 8,809             | \$ 9,610             | \$ 10,439            | \$ 11,287            | \$ 12,161            | \$ 13,072            | \$ 103,837                |
| 8    | Monthly C&I Savings                   |            | 31,350               | 32,754               | 34,158               | 35,561               | 36,965               | 38,369                | 39,773               | 41,176               | 42,580               | 43,516               | 44,920               | 46,791               |                           |
| 9    | Cumulative C&I Savings                | 500,407    | 531,757              | 564,511              | 598,688              | 634,230              | 671,195              | 709,564               | 749,336              | 790,512              | 833,092              | 878,608              | 921,528              | 968,319              | 8,849,319                 |
| 10   | Average C&I Distribution Rate         |            | 0.03351              | 0.03351              | 0.03351              | 0.03351              | 0.03212              | 0.03212               | 0.03212              | 0.03212              | 0.03212              | 0.03212              | 0.03212              | 0.03212              |                           |
| 11   | Lost C&I Revenue                      |            | \$ 17,819            | \$ 18,917            | \$ 20,061            | \$ 21,253            | \$ 21,559            | \$ 22,791             | \$ 24,069            | \$ 25,391            | \$ 26,759            | \$ 28,157            | \$ 29,599            | \$ 31,102            | \$ 287,478                |
| 12   | Total Lost Revenue                    |            | \$ 22,579            | \$ 24,341            | \$ 26,177            | \$ 28,090            | \$ 28,846            | \$ 30,826             | \$ 32,877            | \$ 35,002            | \$ 37,198            | \$ 38,443            | \$ 41,761            | \$ 44,175            | \$ 391,315                |

| Line | Description                           | 12/31/2018 | Forecast<br>Jan-19 | Forecast<br>Feb-19 | Forecast<br>Mar-19 | Forecast<br>Apr-19 | Forecast<br>May-19 | Forecast<br>Jun-19 | Forecast<br>Jul-19 | Forecast<br>Aug-19 | Forecast<br>Sep-19 | Forecast<br>Oct-19 | Forecast<br>Nov-19 | Forecast<br>Dec-19 | 2019<br>Annual Savings    |
|------|---------------------------------------|------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------------|
|      | Col A                                 | Col B      | Col C              | Col D              | Col E              | Col F              | Col G              | Col H              | Col I              | Col J              | Col K              | Col L              | Col M              | Col N              | Col O                     |
| 1    | Residential Annualized Savings        |            | 200,842            | 209,835            | 218,827            | 227,820            | 236,813            | 245,806            | 254,799            | 263,792            | 272,785            | 278,780            | 287,773            | 299,764            | 2,997,636                 |
| 2    | C&I Annualized Savings (2019)         |            | 475,384            | 496,670            | 517,955            | 539,241            | 560,527            | 581,813            | 603,099            | 624,385            | 645,671            | 659,861            | 681,147            | 709,528            | 7,095,280                 |
| 3    | Total                                 |            | 676,225            | 706,504            | 736,783            | 767,062            | 797,340            | 827,619            | 857,898            | 888,177            | 918,455            | 938,641            | 968,920            | 1,009,292          | 10,092,917                |
|      |                                       |            | Jan-19             | Feb-19             | Mar-19             | Apr-19             | May-19             | Jun-19             | Jul-19             | Aug-19             | Sep-19             | Oct-19             | Nov-19             | Dec-19             | Cumulative<br>LBR Savings |
| 4    | Monthly Residential Savings           |            | 16,737             | 17,486             | 18,236             | 18,985             | 19,734             | 20,484             | 21,233             | 21,983             | 22,732             | 23,232             | 23,981             | 24,980             |                           |
| 5    | Cumulative Residential Savings        | 389,587    | 386,324            | 403,810            | 422,048            | 441,031            | 460,785            | 481,249            | 502,482            | 524,485            | 547,197            | 570,429            | 594,410            | 619,390            | 5,953,599                 |
| 6    | Average Residential Distribution Rate |            | 0.03537            | 0.03537            | 0.03537            | 0.03537            | 0.03537            | 0.03537            | 0.03537            | 0.03537            | 0.03537            | 0.03537            | 0.03537            | 0.03537            |                           |
| 7    | Lost Residential Revenue              |            | \$ 13,684          | \$ 14,283          | \$ 14,928          | \$ 15,599          | \$ 16,297          | \$ 17,022          | \$ 17,773          | \$ 18,550          | \$ 19,354          | \$ 20,176          | \$ 21,024          | \$ 21,908          | \$ 210,579                |
| 8    | Monthly C&I Savings (2017 & 2018)     | 968,319    | 968,319            | 968,319            | 968,319            | 968,319            | 968,319            | 968,319            | 968,319            | 968,319            | 968,319            | 968,319            | 968,319            | 968,319            |                           |
| 9    | Average C&I Distribution Rate         |            | 0.03212            | 0.03212            | 0.03212            | 0.03212            | 0.03212            | 0.03212            | 0.03212            | 0.03212            | 0.03212            | 0.03212            | 0.03212            | 0.03212            |                           |
| 10   | Lost C&I Revenue                      |            | \$ 31,102          | \$ 31,102          | \$ 31,102          | \$ 31,102          | \$ 31,102          | \$ 31,102          | \$ 31,102          | \$ 31,102          | \$ 31,102          | \$ 31,102          | \$ 31,102          | \$ 31,102          | \$ 373,229                |
| 11   | Monthly C&I Savings (2019)            |            | 39,615             | 41,389             | 43,163             | 44,937             | 46,711             | 48,484             | 50,258             | 52,032             | 53,806             | 54,988             | 56,762             | 59,127             |                           |
| 12   | Cumulative C&I Savings                | -          | 39,615             | 81,004             | 124,167            | 169,104            | 215,815            | 264,299            | 314,557            | 366,589            | 420,395            | 475,384            | 532,146            | 591,273            |                           |
| 13   | Average C&I Distribution Rate         |            | 0.00024            | 0.00024            | 0.00024            | 0.00024            | 0.00024            | 0.00024            | 0.00024            | 0.00024            | 0.00024            | 0.00024            | 0.00024            | 0.00024            |                           |
| 14   | Lost C&I Revenue                      |            | \$ 10              | \$ 19              | \$ 30              | \$ 41              | \$ 52              | \$ 63              | \$ 75              | \$ 88              | \$ 101             | \$ 114             | \$ 128             | \$ 142             | \$ 863                    |
| 15   | Monthly C&I kW Savings (2019)         |            | 31.5               | 31.5               | 31.5               | 31.5               | 31.5               | 31.5               | 31.5               | 31.5               | 31.5               | 31.5               | 31.5               | 31.5               |                           |
| 16   | Cumulative C&I kW Savings             | -          | 31.5               | 63.0               | 94.5               | 126.0              | 157.5              | 189.0              | 220.5              | 252.0              | 283.5              | 315.0              | 346.5              | 378.0              |                           |
| 17   | Average C&I Demand Rate               |            | \$ 9.11            | \$ 9.11            | \$ 9.11            | \$ 9.11            | \$ 9.11            | \$ 9.11            | \$ 9.11            | \$ 9.11            | \$ 9.11            | \$ 9.11            | \$ 9.11            | \$ 9.11            |                           |
| 18   | Lost C&I Demand Revenue               |            | \$ 287             | \$ 574             | \$ 861             | \$ 1,148           | \$ 1,435           | \$ 1,722           | \$ 2,009           | \$ 2,296           | \$ 2,583           | \$ 2,870           | \$ 3,157           | \$ 3,444           | \$ 22,388                 |
| 19   | Total Lost Revenue                    |            | \$ 45,063          | \$ 45,979          | \$ 46,921          | \$ 47,890          | \$ 48,866          | \$ 49,910          | \$ 50,960          | \$ 52,037          | \$ 53,141          | \$ 54,263          | \$ 55,411          | \$ 56,598          | \$ 607,056                |

2019

Line 1: Estimated Savings per 2019 Core Filing - Compliance Filing Updated BCR Model. See tab [P5a LBR Savings Calc](#) for summary savings.  
Line 2: Estimated Savings per 2019 Core Filing - Compliance Filing Updated BCR Model. See tab [P5a LBR Savings Calc](#) for summary savings.  
Line 3: Line 1 + Line 2  
Line 4: Line 1 / Line 2  
Line 5: Prior Month Line 5 + Current Month Line 4. 12/31/17 Cumulative savings shown in Col. B from 2017 Annual Report.  
Line 6: Page 8, Line 1, Col. 5  
Line 7: Line 5 x Line 6  
Line 8: Prior Month Line 9 + Current Month Line 8. 12/31/17 Cumulative savings shown in Col. B from 2017 Annual Report.  
Line 9: Page 8, line 2, column (b)  
Line 10: Line 8 x Line 9  
Line 11: Line 2/12  
Line 12: Prior month Line 12 + current month Line 11  
Line 13: Page 8 Line 4, Column (a)  
Line 14: Line 12 x Line 13  
Line 15: Page 5a Line 20  
Line 16: Prior month Line 16 + Current month Line 15  
Line 17: Page 8 Line 4 Column 6  
Line 18: Line 16 x Line 17  
Line 19: Line 7 + Line 10 + Line 14 + Line 18

| UNITIL ENERGY SYSTEM, INC.<br>Electric Savings for LBR Calculation |                          |                                    |
|--------------------------------------------------------------------|--------------------------|------------------------------------|
| PLAN SAVINGS PROGRAM YEAR 2019                                     |                          |                                    |
|                                                                    | Revised<br>Annual<br>kWh | Revised<br>kW Peak<br>for LBR Calc |
| 1. Residential Programs                                            |                          |                                    |
| 2. Home Energy Assistance                                          | 85,861                   |                                    |
| 3. EnergyStar Homes                                                | 65,093                   |                                    |
| 4. Home Performance w/EnergyStar                                   | 89,008                   |                                    |
| 5. Energy Star Products                                            | 1,840,675                |                                    |
| 6. Home Energy Reports                                             | 917,000                  |                                    |
| 7. Residential                                                     | 2,997,636                | n/a (1)                            |
| 8.                                                                 |                          |                                    |
| 9. Commercial & Industrial Programs                                |                          |                                    |
| 10. Large Business Energy Solutions                                | 4,148,221                | 526                                |
| 11. Small Business Energy Solutions                                | 2,535,530                | 220                                |
| 12. Municipal Energy Solutions                                     | 411,529                  | 10                                 |
| 13. Commercial & Industrial                                        | 7,095,280                | 756                                |
| 14.                                                                |                          |                                    |
| 15. Total 2019 Portfolio                                           | 10,092,917               | 756                                |

| LBR Savings Allocation                  |                         | Estimate<br>Jan-19 | Estimate<br>Feb-19 | Estimate<br>Mar-19 | Estimate<br>Apr-19 | Estimate<br>May-19 | Estimate<br>Jun-19 | Estimate<br>Jul-19 | Estimate<br>Aug-19 | Estimate<br>Sep-19 | Estimate<br>Oct-19 | Estimate<br>Nov-19 | Estimate<br>Dec-19 | Total     |
|-----------------------------------------|-------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-----------|
| 16. Residential Programs                |                         |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |           |
| 17. Annualized kWh by Month             | L. 7 * L. 34            | 200,842            | 209,835            | 218,827            | 227,820            | 236,813            | 245,806            | 254,799            | 263,792            | 272,785            | 278,780            | 287,773            | 299,764            | 2,997,636 |
| 18.                                     |                         |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |           |
| 19. Monthly Incremental                 | L. 17 ÷ 12 Mo.          | 16,737             | 17,486             | 18,236             | 18,985             | 19,734             | 20,484             | 21,233             | 21,983             | 22,732             | 23,232             | 23,981             | 24,980             | 249,803   |
| 20. Monthly Cumulative                  | Sum of L. 19            | 16,737             | 34,223             | 52,459             | 71,444             | 91,178             | 111,662            | 132,895            | 154,878            | 177,610            | 200,842            | 224,823            | 249,803            | 1,518,553 |
| 21.                                     |                         |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |           |
| 22. Commercial & Industrial Programs    |                         |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |           |
| 23. Annualized kWh by Month             | L. 13 * L. 34           | 475,384            | 496,670            | 517,955            | 539,241            | 560,527            | 581,813            | 603,099            | 624,385            | 645,671            | 659,861            | 681,147            | 709,528            | 7,095,280 |
| 24. Annualized kW by Mo. -Year 1 @ 50%  | L. 13 "kW" * 0.5        | 378                | 378                | 378                | 378                | 378                | 378                | 378                | 378                | 378                | 378                | 378                | 378                | 378       |
| 25.                                     |                         |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |           |
| 26. Monthly Incremental kWh             | L. 23 ÷ 12 Mo.          | 39,615             | 41,389             | 43,163             | 44,937             | 46,711             | 48,484             | 50,258             | 52,032             | 53,806             | 54,988             | 56,762             | 59,127             | 591,273   |
| 27. Monthly Cumulative kWh - Current Yr | Sum of L. 26            | 39,615             | 81,004             | 124,167            | 169,104            | 215,815            | 264,299            | 314,557            | 366,589            | 420,395            | 475,384            | 532,146            | 591,273            | 3,594,351 |
| 28.                                     |                         |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |           |
| 29. Monthly Incremental kW              | L. 24 ÷ 12 Mo.          | 31.50              | 31.50              | 31.50              | 31.50              | 31.50              | 31.50              | 31.50              | 31.50              | 31.50              | 31.50              | 31.50              | 31.50              | 378.04    |
| 30. Monthly Cumulative kW - Current Yr  | Sum of L. 29            | 31.50              | 63.01              | 94.51              | 126.01             | 157.52             | 189.02             | 220.52             | 252.03             | 283.53             | 315.03             | 346.54             | 378.04             |           |
| 31.                                     |                         |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |           |
| 32.                                     |                         |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |           |
| 33. Cumulative Annualized kWh by Mo.    | Sum L. 17 + L. 23       | 676,225            | 1,382,730          | 2,119,513          | 2,886,574          | 3,683,915          | 4,511,534          | 5,369,432          | 6,257,608          | 7,176,064          | 8,114,705          | 9,083,625          | 10,092,917         |           |
| 34. Percent of Plan Savings             | (L. 17 + L. 23) ÷ L. 15 | <u>6.7%</u>        | <u>7.0%</u>        | <u>7.3%</u>        | <u>7.6%</u>        | <u>7.9%</u>        | <u>8.2%</u>        | <u>8.5%</u>        | <u>8.8%</u>        | <u>9.1%</u>        | <u>9.3%</u>        | <u>9.6%</u>        | <u>10.0%</u>       |           |

**NOTES:**

(1) LBR associated with residential peak reductions is not applicable. LBR associated with C&I peak reductions was calculated as defined in Appendix A of the New Hampshire Energy Efficiency Calculation of Lost Base Revenue For Measures installed beginning in 2015 issued by the NH Lost Base Revenue (LBR) Working Group, Docket No. DE 17-136.

Unitil Energy System, Inc.  
Lost Base Revenue Reconciliation  
January 1, 2018 to December 31, 2018

Unitil Energy Systems, Inc.  
NHPUC Docket No. DE 17-136  
Attachment H3 (2019 Update)  
Page 6 of 11

| Line | Description                      | Recast<br>Jan-18 | Recast<br>Feb-18 | Recast<br>Mar-18 | Recast<br>Apr-18 | Recast<br>May-18 | Recast<br>Jun-18 | Forecast<br>Jul-18 | Forecast<br>Aug-18 | Forecast<br>Sep-18 | Forecast<br>Oct-18 | Forecast<br>Nov-18 | Forecast<br>Dec-18 | 2018<br>Total |
|------|----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|
|      | Col A                            | Col B            | Col C            | Col D            | Col E            | Col F            | Col G            | Col H              | Col I              | Col J              | Col K              | Col L              | Col M              | Col N         |
| 1    | Beginning Balance                | \$ 227           | \$ (986)         | \$ (8,107)       | \$ (11,900)      | \$ (12,057)      | \$ (11,088)      | \$ (11,106)        | \$ (12,448)        | \$ (14,286)        | \$ (8,818)         | \$ (125)           | \$ 13,571          |               |
| 2    | Lost Revenues                    | \$ 22,579        | \$ 24,341        | \$ 26,177        | \$ 28,090        | \$ 28,846        | \$ 30,826        | \$ 32,877          | \$ 35,002          | \$ 37,198          | \$ 39,443          | \$ 41,761          | \$ 44,175          | 391,315       |
|      | REVENUE                          |                  |                  |                  |                  |                  |                  |                    |                    |                    |                    |                    |                    |               |
| 3    | Revenue (\$)                     | \$ 23,791        | \$ 31,447        | \$ 29,934        | \$ 28,203        | \$ 27,833        | \$ 30,802        | \$ 34,172          | \$ 36,786          | \$ 31,686          | \$ 30,731          | \$ 28,093          | \$ 31,355          | 364,832       |
| 4    | Cumulative Over/(Under) Recovery | \$ (985)         | \$ (8,093)       | \$ (11,864)      | \$ (12,013)      | \$ (11,044)      | \$ (11,065)      | \$ (12,401)        | \$ (14,232)        | \$ (8,773)         | \$ (106)           | \$ 13,543          | \$ 26,390          |               |
|      | INTEREST                         |                  |                  |                  |                  |                  |                  |                    |                    |                    |                    |                    |                    |               |
| 5    | Average Monthly Balance          | \$ (379)         | \$ (4,539)       | \$ (9,986)       | \$ (11,957)      | \$ (11,551)      | \$ (11,077)      | \$ (11,753)        | \$ (13,340)        | \$ (11,530)        | \$ (4,462)         | \$ 6,709           | \$ 19,980          |               |
| 6    | Interest Rate                    | 4.25%            | 4.25%            | 4.25%            | 4.50%            | 4.50%            | 4.50%            | 4.75%              | 4.75%              | 4.75%              | 5.00%              | 5.00%              | 5.00%              | 5.00%         |
| 7    | Days per Month                   | 31               | 28               | 31               | 30               | 31               | 30               | 31                 | 31                 | 30                 | 31                 | 30                 | 31                 | 365           |
| 8    | Computed Interest                | \$ (1)           | \$ (15)          | \$ (36)          | \$ (44)          | \$ (44)          | \$ (41)          | \$ (47)            | \$ (54)            | \$ (45)            | \$ (19)            | \$ 28              | \$ 85              | (234)         |
| 9    | Ending Balance                   | \$ (986)         | \$ (8,107)       | \$ (11,900)      | \$ (12,057)      | \$ (11,088)      | \$ (11,106)      | \$ (12,448)        | \$ (14,286)        | \$ (8,818)         | \$ (125)           | \$ 13,571          | \$ 26,475          |               |

Line 1: Prior period ending balance  
Line 2: Page 5, Line 12  
Line 3: Actual revenue through June 2018. Estimated revenue July through December.  
Line 4: Line 1 + Line 2 - Line 3  
Line 5: (Line 1 + Line 4)/2  
Line 6: Prime Rate  
Line 8: Line 7 \* ((Line 5/# days per year) \* Line 9)  
Line 9: Line 4 + Line 8

Unitil Energy System, Inc.  
Lost Base Revenue Reconciliation  
January 1, 2019 to December 31, 2019

Unitil Energy Systems, Inc.  
NHPUC Docket No. DE 17-136  
Attachment H3 (2019 Update)  
Page 7 of 11  
REVISED

e 7 of 11

| Line | Description                      | Estimate<br>Jan-19 | Estimate<br>Feb-19 | Estimate<br>Mar-19 | Estimate<br>Apr-19 | Estimate<br>May-19 | Estimate<br>Jun-19 | Estimate<br>Jul-19 | Estimate<br>Aug-19 | Estimate<br>Sep-19 | Estimate<br>Oct-19 | Estimate<br>Nov-19 | Estimate<br>Dec-19 | 2019<br>Total |
|------|----------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|
|      | Col A                            | Col B              | Col C              | Col D              | Col E              | Col F              | Col G              | Col H              | Col I              | Col J              | Col K              | Col L              | Col M              | Col N         |
| 1    | Beginning Balance                | \$ 26,475          | \$ 11,778          | \$ 3,129           | \$ (962)           | \$ (1,725)         | \$ 702             | \$ 2,923           | \$ (6,397)         | \$ (16,875)        | \$ (16,028)        | \$ (16,005)        | \$ (7,577)         |               |
| 2    | Lost Revenues                    | \$ 45,063          | \$ 45,979          | \$ 46,921          | \$ 47,890          | \$ 48,886          | \$ 49,910          | \$ 50,960          | \$ 52,037          | \$ 53,141          | \$ 54,263          | \$ 55,411          | \$ 56,596          | 607,056       |
|      | REVENUE                          |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |               |
| 3    | Revenue (\$)                     | \$ 59,841          | \$ 54,656          | \$ 51,016          | \$ 48,648          | \$ 46,457          | \$ 47,696          | \$ 60,272          | \$ 62,466          | \$ 52,226          | \$ 54,172          | \$ 46,935          | \$ 52,258          | 636,644       |
| 4    | Cumulative Over/(Under) Recovery | \$ 11,697          | \$ 3,101           | \$ (966)           | \$ (1,719)         | \$ 704             | \$ 2,916           | \$ (6,389)         | \$ (16,826)        | \$ (15,960)        | \$ (15,937)        | \$ (7,529)         | \$ (3,239)         |               |
|      | INTEREST                         |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |               |
| 5    | Average Monthly Balance          | \$ 19,086          | \$ 7,439           | \$ 1,082           | \$ (1,340)         | \$ (510)           | \$ 1,809           | \$ (1,733)         | \$ (11,611)        | \$ (16,418)        | \$ (15,982)        | \$ (11,767)        | \$ (5,408)         |               |
| 6    | Interest Rate                    | 5.00%              | 5.00%              | 5.00%              | 5.00%              | 5.00%              | 5.00%              | 5.00%              | 5.00%              | 5.00%              | 5.00%              | 5.00%              | 5.00%              | 5.00%         |
| 7    | Days per Month                   | 31                 | 28                 | 31                 | 30                 | 31                 | 30                 | 31                 | 31                 | 30                 | 31                 | 30                 | 31                 | 365           |
| 8    | Computed Interest                | \$ 81              | \$ 29              | \$ 5               | \$ (6)             | \$ (2)             | \$ 7               | \$ (7)             | \$ (49)            | \$ (67)            | \$ (68)            | \$ (48)            | \$ (23)            | (149)         |
| 9    | Ending Balance                   | \$ 11,778          | \$ 3,129           | \$ (962)           | \$ (1,725)         | \$ 702             | \$ 2,923           | \$ (6,397)         | \$ (16,875)        | \$ (16,028)        | \$ (16,005)        | \$ (7,577)         | \$ (3,262)         |               |

Line 1: Prior period ending balance  
Line 2: Page 5, Line 12  
Line 3: Estimated revenue  
Line 4: Line 1 + Line 2 - Line 3  
Line 5: (Line 1 + Line 4)/2  
Line 6: Prime Rate  
Line 8: Line 7 \* ((Line 5/# days per year) \* Line 9))  
Line 9: Line 4 + Line 8

Unitil Energy Systems, Inc.  
NHPUC Docket No. DE 17-136  
Attachment H3 (2019 Update)  
Page 8 of 11

**Unitil Energy Systems, Inc.**  
**Calculation of Forecasted Average Distribution Rate for Lost Revenue**  
**Based on Actual Billing Determinants for January - December 2017 and Distribution Rates effective May 1, 2018**

|                                 | (1)                   | (2)                | (3)                                 | (4)                | (5)                 | (6) = (1) / (4)                        | (7) = (2) / (5)                                       | (8) = (3) / (5)                                       |
|---------------------------------|-----------------------|--------------------|-------------------------------------|--------------------|---------------------|----------------------------------------|-------------------------------------------------------|-------------------------------------------------------|
|                                 | <u>Revenue*</u>       |                    |                                     | <u>Units</u>       |                     |                                        |                                                       |                                                       |
| <u>Rate Class</u>               | <u>Demand Charges</u> | <u>kWh Charges</u> | <u>Total Demand and kWh Charges</u> | <u>Delivery kW</u> | <u>Delivery kWh</u> | <u>Average Distribution Rate \$/kW</u> | <u>Average Distribution Rate \$/kWh<sup>(a)</sup></u> | <u>Average Distribution Rate \$/kWh<sup>(b)</sup></u> |
| 1 Residential D                 | \$ -                  | \$ 17,131,066      | \$ 17,131,066                       | -                  | 484,338,873         | N/A                                    | N/A                                                   | \$ 0.03537                                            |
| 2 Regular General G2            | \$ 13,997,246         | \$ 165,112         | \$ 14,162,358                       | 1,341,173          | 326,470,379         | 10.44                                  | \$ 0.00051                                            | \$ 0.04338                                            |
| 3 Large General Service Rate G1 | \$ 7,615,522          | \$ -               | \$ 7,615,522                        | 1,032,033          | 351,603,664         | 7.38                                   | \$ -                                                  | \$ 0.02166                                            |
| 4 Commercial and Industrial     | \$ 21,612,769         | \$ 165,112         | \$ 21,777,881                       | 2,373,206          | 678,074,043         | \$ 9.11                                | \$ 0.00024                                            | \$ 0.03212                                            |

Note: See page 10 for details.

\* Revenues include demand charges and kWh charges only.

Customer, meter and per luminaire charges are excluded.

(a) For 2019 C&I Savings.

(b) For 2017 and 2018 C&I Savings (in 2019 calculation).

Unitil Energy Systems, Inc.  
NHPUC Docket No. DE 17-136  
Attachment H3 (2019 Update)  
Page 9 of 11  
REVISED

**Bill Impacts of Changes in System Benefits Charge - Unitil Energy Systems, Inc.**

|                                                                       | <b>2018</b> | <b>2019</b> |
|-----------------------------------------------------------------------|-------------|-------------|
| System Benefits Charge (\$/kWh)                                       | \$ 0.00456  | 0.00576     |
| <u>Bill per month, including UES Default Service Charge</u>           |             |             |
| Residential Rate R (625 kWh/month)                                    | \$ 108.04   | \$ 108.79   |
| General Service Rate G, three-phase service (40 kW, 10,000 kWh/month) | \$ 1,477.52 | \$ 1,489.49 |
| <u>Change from previous rate level - \$ per month</u>                 |             |             |
| Residential Rate R (625 kWh/month)                                    |             | \$ 0.75     |
| General Service Rate G, three-phase service (40 kW, 10,000 kWh/month) |             | \$ 11.97    |
| <u>Change from previous rate level - %</u>                            |             |             |
| Residential Rate R (625 kWh/month)                                    |             | 0.7%        |
| General Service Rate G, three-phase service (40 kW, 10,000 kWh/month) |             | 0.8%        |

**Unitil Energy Systems, Inc.**  
**Calculation of Distribution Revenue at the Rate Level Effective January 1, 2017 - December 31, 2017**  
**Based on Billing Determinants for the Twelve Months Ending December 31, 2017**

Unitil Energy Systems, Inc.  
NHPUC Docket No. DE 17-136  
Attachment H3 (2019 Update)  
Page 10 of 11

| Rate Class            | Customer Group                     |                                   | (a)                                               | (b)                                      | (c)<br>Calculated Revenue = (a) X (b) |               |               |               |  |
|-----------------------|------------------------------------|-----------------------------------|---------------------------------------------------|------------------------------------------|---------------------------------------|---------------|---------------|---------------|--|
|                       |                                    |                                   | 5/1/2018<br>Monthly<br>Distribution<br>Charge (1) | Jan - Dec<br>Billing<br>Determinants (2) | Customer/<br>Meter/<br>Luminaire      | Demand        | kWh           | Total         |  |
| Residential Rate R    | Standard Rate                      | Customer Charge                   | \$ 16.12                                          | 786,611                                  | \$ 12,680,169                         |               |               |               |  |
|                       |                                    | All kWh                           | \$ 0.03537                                        | 484,338,873                              |                                       |               | \$ 17,131,066 | \$ 29,811,235 |  |
| Total Rate R          |                                    | Customers                         |                                                   | 786,611                                  |                                       |               |               |               |  |
|                       |                                    | Meters                            |                                                   | n/a                                      |                                       |               |               |               |  |
|                       |                                    | KWH                               |                                                   | 484,338,873                              |                                       |               |               |               |  |
|                       |                                    | Revenue                           |                                                   |                                          | \$ 12,680,169                         | \$ -          | \$ 17,131,066 | \$ 29,811,235 |  |
| General Rate G2       | Standard Rate                      | Customer Charge                   | \$ 29.02                                          | 122,372                                  | \$ 3,551,235                          |               |               |               |  |
|                       |                                    | Demand charge (All KW)            | \$ 10.45                                          | 1,341,173                                |                                       | \$ 14,015,260 |               |               |  |
|                       |                                    | All KWH                           | \$ -                                              | 320,931,860                              |                                       |               | \$ -          |               |  |
|                       |                                    | Transformer Ownership Credit, G2  | \$ (0.50000)                                      | 36,028                                   |                                       | \$ (18,014)   |               | \$ 17,548,482 |  |
|                       | G2 - kWh Meter                     | Customer Charge                   | \$ 18.27                                          | 5,062                                    | \$ 92,483                             |               |               |               |  |
|                       |                                    | All KWH                           | \$ 0.00878                                        | 489,369                                  |                                       |               | \$ 4,297      | \$ 96,779     |  |
|                       | QR Water Heating and/or Space Heat | Customer Charge                   | \$ 9.67                                           | 3,219                                    | \$ 31,128                             |               |               |               |  |
|                       |                                    | All KWH                           | \$ 0.03185                                        | 5,049,150                                |                                       |               | \$ 160,815    | \$ 191,943    |  |
|                       | Total Rate G2                      |                                   | Customers                                         |                                          | 130,653                               |               |               |               |  |
|                       |                                    |                                   | Meters                                            |                                          | n/a                                   |               |               |               |  |
| Billing demand        |                                    |                                   |                                                   | 1,341,173                                |                                       |               |               |               |  |
| KWH                   |                                    |                                   |                                                   | 326,470,379                              |                                       |               |               |               |  |
|                       |                                    | Revenue                           |                                                   |                                          | \$ 3,674,846                          | \$ 13,997,246 | \$ 165,112    | \$ 17,837,204 |  |
| Large General Rate G1 | Standard Rate                      | Customer Charge Secondary Voltage | \$ 161.23                                         | 1,501                                    | \$ 242,006                            |               |               |               |  |
|                       |                                    | Customer Charge Primary Voltage   | \$ 85.99                                          | 390                                      | \$ 33,536                             |               |               |               |  |
|                       |                                    | All kVA                           | \$ 7.55                                           | 1,032,033                                |                                       | \$ 7,791,851  |               |               |  |
|                       |                                    | All KWH                           | \$ -                                              | 351,603,664                              |                                       |               | \$ -          |               |  |
|                       |                                    | Transformer Ownership Credit, G1  | \$ (0.50000)                                      | 352,657                                  |                                       | \$ (176,328)  |               | \$ 7,891,065  |  |
|                       |                                    |                                   |                                                   |                                          |                                       |               |               |               |  |
| Total Rate G1         |                                    | Customers Secondary Voltage       |                                                   | 1,501                                    |                                       |               |               |               |  |
|                       |                                    | Customers Primary Voltage         |                                                   | 390                                      |                                       |               |               |               |  |
|                       |                                    | Meters                            |                                                   | n/a                                      |                                       |               |               |               |  |
|                       |                                    | Billing demand                    |                                                   | 1,032,033                                |                                       |               |               |               |  |
|                       |                                    | KWH                               |                                                   | 351,603,664                              |                                       |               |               |               |  |
|                       |                                    | Revenue                           |                                                   |                                          | \$ 275,542                            | \$ 7,615,522  | \$ -          | \$ 7,891,065  |  |

Unitil Energy Systems, Inc.  
NHPUC Docket No. DE 17-136  
Attachment H3 (2019 Update)  
Page 11 of 11

|                          |                |                             |               |           |            |           |                               |    |            |           |            |
|--------------------------|----------------|-----------------------------|---------------|-----------|------------|-----------|-------------------------------|----|------------|-----------|------------|
| Outdoor Lighting Rate OL | 100            | Mercury Vapor Street        | \$13.20       | 16,195    | \$         | 213,769   | NHPUC Docket<br>Attachment H3 |    |            |           |            |
|                          | 175            | Mercury Vapor Street        | \$15.66       | 837       | \$         | 13,112    |                               |    |            |           |            |
|                          | 250            | Mercury Vapor Street        | \$17.75       | 887       | \$         | 15,735    |                               |    |            |           |            |
|                          | 400            | Mercury Vapor Street        | \$21.13       | 1,608     | \$         | 33,978    |                               |    |            |           |            |
|                          | 1000           | Mercury Vapor Street        | \$41.95       | 24        | \$         | 1,007     |                               |    |            |           |            |
|                          | 250            | Mercury Vapor Flood         | \$18.90       | 748       | \$         | 14,142    |                               |    |            |           |            |
|                          | 400            | Mercury Vapor Flood         | \$22.62       | 1,140     | \$         | 25,785    |                               |    |            |           |            |
|                          | 1000           | Mercury Vapor Flood         | \$37.48       | 182       | \$         | 6,823     |                               |    |            |           |            |
|                          | 100            | Mercury Vapor Power Bracket | \$13.33       | 4,504     | \$         | 60,038    |                               |    |            |           |            |
|                          | 175            | Mercury Vapor Power Bracket | \$14.79       | 651       | \$         | 9,630     |                               |    |            |           |            |
|                          | 50             | Sodium Vapor Street         | \$13.44       | 42,395    | \$         | 569,792   |                               |    |            |           |            |
|                          | 100            | Sodium Vapor Street         | \$15.13       | 1,289     | \$         | 19,508    |                               |    |            |           |            |
|                          | 150            | Sodium Vapor Street         | \$15.19       | 4,293     | \$         | 65,217    |                               |    |            |           |            |
|                          | 250            | Sodium Vapor Street         | \$19.03       | 13,711    | \$         | 260,923   |                               |    |            |           |            |
|                          | 400            | Sodium Vapor Street         | \$23.98       | 2,945     | \$         | 70,610    |                               |    |            |           |            |
|                          | 1000           | Sodium Vapor Street         | \$41.42       | 1,705     | \$         | 70,611    |                               |    |            |           |            |
|                          | 150            | Sodium Vapor Flood          | \$17.51       | 2,908     | \$         | 50,911    |                               |    |            |           |            |
|                          | 250            | Sodium Vapor Flood          | \$20.64       | 3,904     | \$         | 80,586    |                               |    |            |           |            |
|                          | 400            | Sodium Vapor Flood          | \$23.45       | 4,860     | \$         | 113,976   |                               |    |            |           |            |
|                          | 1000           | Sodium Vapor Flood          | \$41.78       | 2,683     | \$         | 112,106   |                               |    |            |           |            |
|                          | 50             | Sodium Vapor Power Bracket  | \$12.44       | 1,382     | \$         | 17,197    |                               |    |            |           |            |
|                          | 100            | Sodium Vapor Power Bracket  | \$13.96       | 859       | \$         | 11,997    |                               |    |            |           |            |
|                          | 175            | Metal Halide Street         | \$19.79       | 24        | \$         | 475       |                               |    |            |           |            |
|                          | 250            | Metal Halide Street         | \$21.52       | -         | \$         | -         |                               |    |            |           |            |
|                          | 400            | Metal Halide Street         | \$22.32       | -         | \$         | -         |                               |    |            |           |            |
|                          | 175            | Metal Halide Flood          | \$22.87       | -         | \$         | -         |                               |    |            |           |            |
|                          | 250            | Metal Halide Flood          | \$24.69       | -         | \$         | -         |                               |    |            |           |            |
|                          | 400            | Metal Halide Flood          | \$24.73       | -         | \$         | -         |                               |    |            |           |            |
|                          | 1000           | Metal Halide Flood          | \$32.03       | -         | \$         | -         |                               |    |            |           |            |
|                          | 175            | Metal Halide Power Bracket  | \$18.52       | -         | \$         | -         |                               |    |            |           |            |
|                          | 250            | Metal Halide Power Bracket  | \$19.69       | -         | \$         | -         |                               |    |            |           |            |
|                          | 400            | Metal Halide Power Bracket  | \$21.05       | 456       | \$         | 9,599     |                               |    |            |           |            |
|                          | 42             | LED Area Light Fixture      | \$13.08       | -         | \$         | -         |                               |    |            |           |            |
|                          | 57             | LED Area Light Fixture      | \$13.13       | -         | \$         | -         |                               |    |            |           |            |
|                          | 25             | LED Cobra Head Fixture      | \$13.03       | -         | \$         | -         |                               |    |            |           |            |
|                          | 88             | LED Cobra Head Fixture      | \$13.22       | -         | \$         | -         |                               |    |            |           |            |
|                          | 108            | LED Cobra Head Fixture      | \$13.28       | -         | \$         | -         |                               |    |            |           |            |
|                          | 193            | LED Cobra Head Fixture      | \$13.54       | -         | \$         | -         |                               |    |            |           |            |
|                          | 123            | LED Flood Light Fixture     | \$13.33       | -         | \$         | -         |                               |    |            |           |            |
|                          | 194            | LED Flood Light Fixture     | \$13.54       | -         | \$         | -         |                               |    |            |           |            |
|                          | 297            | LED Flood Light Fixture     | \$13.85       | -         | \$         | -         |                               |    |            |           |            |
| Total Rate OL            | Luminaires     |                             |               | 110,191   |            |           |                               |    |            |           |            |
|                          | Customers      |                             | n/a           |           |            |           |                               |    |            |           |            |
|                          | Meters         |                             | -             |           |            |           |                               |    |            |           |            |
|                          | KWH            | \$                          | -             | 8,073,290 |            |           |                               |    |            |           |            |
|                          | Revenue        |                             |               |           | \$         | 1,847,525 | \$                            | -  | \$         | 1,847,525 |            |
| <hr/>                    |                |                             |               |           |            |           |                               |    |            |           |            |
| Total Retail             | Customers      |                             | 918,765       |           |            |           |                               |    |            |           |            |
|                          | Meters         |                             | n/a           |           |            |           |                               |    |            |           |            |
|                          | Luminaires     |                             | 110,191       |           |            |           |                               |    |            |           |            |
|                          | Billing Demand |                             | 2,373,206     |           |            |           |                               |    |            |           |            |
|                          | KWH            |                             | 1,170,486,207 |           |            |           |                               |    |            |           |            |
|                          | Revenue        |                             |               | \$        | 16,630,558 | \$        | 23,460,294                    | \$ | 17,296,178 | \$        | 57,387,030 |