

Laura C. Bickel Senior Counsel Legal Department

December 21, 2020

VIA E-FILING and COURIER

Luly E. Massaro, Commission Clerk Rhode Island Public Utilities Commission 89 Jefferson Boulevard Warwick, RI 02888

Re: In Re: Commission's Review of the Benefits and Costs of Net Metering Credit Calculation Pursuant to R.I. Gen. Laws § 39-26.4-3: Docket No. 5010

Dear Ms. Massaro:

On behalf of The Narragansett Electric Company d/b/a National Grid (the Company), enclosed for filing with the Rhode Island Public Utilities Commission (the Commission) please find the Company's responses to the sixth set of data requests issued by the Commission on December 7, 2020.

Consistent with the instructions issued by the Commission on March 16, 2020, and updated on October 2, 2020, this filing is being made electronically. Five (5) hard copies will be submitted to the Commission within twenty-four (24) hours, with two (2) hard copies being three-hole punched.

If you have any questions, please contact me at: 781-907-2126. Thank you for your time and attention to this matter.

Very truly yours,

211/1

Laura C. Bickel RI Bar # 10055

Enclosures

cc: Docket No. 5010 Service List

Luly E. Massaro, Clerk Docket No. 5010 -- In Re: Commission's Review of the Benefits and Costs of Net Metering Credit Calculation December 21, 2020 Page 2 of 4

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Luly E. Massaro, Clerk Docket No. 5010 -- In Re: Commission's Review of the Benefits and Costs of Net Metering Credit Calculation December 21, 2020 Page 3 of 4

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Luly E. Massaro, Clerk Docket No. 5010 -- In Re: Commission's Review of the Benefits and Costs of Net Metering Credit Calculation December 21, 2020 Page 4 of 4

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<u>PUC 6-1</u>

Request:

For each year dating back to 2011, please provide a table containing columns with the following information on National Grid's monthly Regional Network Load (against which ISO-NE PTF charges are assessed):

- a) National Grid's monthly Regional Network Load (RNL) for January (MW); and the date and hour of that year's peak January RNL.
- b) National Grid's monthly Regional Network Load (RNL) for February (MW); and the date and hour of that year's peak February RNL.
- c) National Grid's monthly Regional Network Load (RNL) for March (MW); and the date and hour of that year's peak March RNL.
- d) National Grid's monthly Regional Network Load (RNL) for April (MW); and the date and hour of that year's peak April RNL.
- e) National Grid's monthly Regional Network Load (RNL) for May (MW); and the date and hour of that year's peak May RNL.
- f) National Grid's monthly Regional Network Load (RNL) for June (MW); and the date and hour of that year's peak June RNL.
- g) National Grid's monthly Regional Network Load (RNL) for July (MW); and the date and hour of that year's peak July RNL.
- h) National Grid's monthly Regional Network Load (RNL) for August (MW); and the date and hour of that year's peak August RNL.
- i) National Grid's monthly Regional Network Load (RNL) for September (MW); and the date and hour of that year's peak September RNL.
- j) National Grid's monthly Regional Network Load (RNL) for October (MW); and the date and hour of that year's peak October RNL.
- k) National Grid's monthly Regional Network Load (RNL) for November (MW); and the date and hour of that year's peak November RNL.

1) National Grid's monthly Regional Network Load (RNL) for December (MW); and the date and hour of that year's peak December RNL.

Response:

Please see Attachment PUC 6-2 for an Excel spreadsheet containing the requested information for the period January 2011 through November 2020.

<u>PUC 6-2</u>

Request:

For each year dating back to 2011, please provide a table containing columns with the following information:

- a) Annual sum of monthly billed kWh (January December) for A16 customers.
- b) Annual sum of monthly billed kWh (January December) for A60 customers.
- c) Annual sum of monthly billed kWh (January December) for C06 customers.
- d) Annual sum of monthly billed kWh (January December) for G02 customers.
- e) Annual sum of monthly billed kWh (January December) for G32 customers.
- f) Annual sum of monthly billed kWh (January December) for B32 customers.
- g) Annual sum of monthly billed kWh (January December) for X01 customers.
- h) Annual sum of monthly billed kWh (January December) for Street Lighting customers.

Response:

Please see Attachment PUC 6-2 for an Excel spreadsheet containing the requested information for the period January 2011 through November 2020.

The Narragansett Electric Company d/b/a National Grid

RIPUC Docket No. 5010

In Re: Commission's Review of the Benefits and Costs of Net Metering Calculation Attachment PUC 6-2

kWh Deliveries by Rate Class

| 1 | YEAR | MONTH | A-16 | A-60 | C-06 | G-02 | G-32/G-62 * | B-32/B-62 | X-01 | SL |
|------|------|--------|---------------|-------------|--------------------------|---------------|---------------|--------------|------------|------------|
| | i. | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) |
| (1) | 2011 | 1 | 274,199,780 | 26,616,710 | 51,362,834 | 113,957,707 | 196,464,723 | 11,757,241 | 1,856,614 | 7,436,190 |
| (2) | 2011 | 2 | 245,741,483 | 24,966,805 | 48,787,838 | 106,873,224 | 206,210,179 | 11,770,972 | 1,782,050 | 6,102,447 |
| (3) | 2011 | 3 | 223,954,644 | 20,423,012 | 47,081,664 | 105,981,446 | 203,834,200 | 10,866,393 | 1,961,771 | 5,432,393 |
| (4) | 2011 | 4 | 211,274,909 | 19,973,747 | 44,850,371 | 102,451,649 | 183,150,487 | 11,269,578 | 1,982,599 | 5,556,731 |
| (5) | 2011 | 5 | 185,644,352 | 17,963,007 | 40,605,322 | 99,832,096 | 202,694,779 | 11,830,501 | 1,955,628 | 4,064,070 |
| (6) | 2011 | 6 | 207,156,542 | 19,887,484 | 44,222,943 | 108,127,926 | 207,990,851 | 11,515,248 | 1,801,309 | 4,147,407 |
| (7) | 2011 | 7 | 286,570,824 | 26,547,460 | 53,654,857 | 125,995,048 | 213,255,260 | 12,854,462 | 2,098,224 | 4,289,372 |
| (8) | 2011 | 0 | 314,078,033 | 28,734,300 | 51,011,447 | 131,809,042 | 237,922,088 | 13,452,580 | 1,891,044 | 4,438,233 |
| (9) | 2011 | 10 | 204,712,443 | 24,793,032 | 31,011,447 44 502 980 | 121,374,801 | 213,678,321 | 9 999 106 | 1,907,401 | 4,943,013 |
| (11) | 2011 | 10 | 209,740,700 | 20.144.200 | 42,943,684 | 101,961,445 | 200,092,497 | 7,273,131 | 1,954,901 | 6,772,423 |
| (12) | 2011 | 12 | 215,138,266 | 21,610,959 | 42,742,842 | 100,344,220 | 200,121,031 | 6,815,808 | 1,830,500 | 6,709,247 |
| (13) | 2011 | | 2,842,806,643 | 271,507,214 | 568,706,626 | 1,328,524,043 | 2,473,665,471 | 132,859,756 | 22,848,413 | 65,479,824 |
| (14) | 2012 | 1 | 246,723,592 | 25,537,525 | 46,690,541 | 103,346,578 | 194,332,706 | 22,773,254 | 1,881,805 | 7,383,003 |
| (15) | 2012 | 2 | 230,074,604 | 24,422,072 | 46,617,913 | 103,792,417 | 193,029,103 | 8,631,783 | 2,000,173 | 5,910,835 |
| (16) | 2012 | 3 | 222,462,236 | 24,062,433 | 46,164,502 | 101,799,558 | 213,442,180 | 2,113,851 | 1,833,313 | 5,591,910 |
| (17) | 2012 | 4 | 203,867,279 | 22,039,469 | 44,438,451 | 104,303,498 | 198,451,701 | 8,780,194 | 1,914,019 | 5,324,064 |
| (18) | 2012 | 5 | 178,132,209 | 19,284,227 | 40,981,153 | 93,749,012 | 195,805,230 | 8,225,802 | 2,051,042 | 4,347,476 |
| (19) | 2012 | 6 | 207,878,261 | 21,351,794 | 45,645,382 | 110,986,294 | 207,963,657 | 9,333,319 | 1,935,498 | 3,859,461 |
| (20) | 2012 | 7 | 285,918,076 | 29,313,598 | 52,609,750 | 121,747,448 | 214,476,456 | 9,471,846 | 1,787,003 | 4,403,823 |
| (21) | 2012 | 8 | 333,152,043 | 33,466,863 | 59,474,307 | 130,801,066 | 237,655,304 | 10,109,162 | 2,085,777 | 4,443,414 |
| (22) | 2012 | 9 | 284,564,411 | 28,591,044 | 54,929,377 | 126,469,518 | 231,820,853 | 10,131,437 | 1,952,991 | 5,278,503 |
| (23) | 2012 | 10 | 196,985,137 | 20,020,433 | 42,320,313 | 100,507,719 | 194,670,787 | 9,433,639 | 1,855,685 | 5,583,373 |
| (24) | 2012 | 11 | 191,819,365 | 20,452,145 | 40,935,368 | 98,523,650 | 192,325,204 | 9,769,012 | 1,953,798 | 6,138,253 |
| (25) | 2012 | 12 | 2 818 286 359 | 294 214 697 | 568 092 704 | 1 295 198 423 | 2 467 873 797 | 117 384 281 | 22 905 311 | 64 939 942 |
| (27) | 2012 | 1 | 266 073 489 | 28 478 816 | 51 039 011 | 103 299 152 | 197 157 788 | 8 636 973 | 1 945 270 | 7 504 431 |
| (28) | 2013 | 2 | 248,747,914 | 27,210,177 | 51,208,907 | 113,411,604 | 217.031.705 | 8,673,194 | 1,872,605 | 6,116,885 |
| (29) | 2013 | 3 | 226,307,488 | 24,687,198 | 48,163,340 | 100,446,850 | 194,698,815 | 7,542,045 | 1,692,846 | 5,232,817 |
| (30) | 2013 | 4 | 214,928,693 | 23,525,316 | 48,242,586 | 100,412,445 | 195,791,114 | 8,750,058 | 1,852,188 | 5,440,613 |
| (31) | 2013 | 5 | 191,141,906 | 20,041,910 | 46,130,464 | 100,548,316 | 201,462,698 | 8,428,992 | 2,017,577 | 4,295,980 |
| (32) | 2013 | 6 | 209,313,887 | 20,924,645 | 48,538,593 | 106,643,738 | 198,000,621 | 11,967,138 | 1,885,083 | 4,069,439 |
| (33) | 2013 | 7 | 307,399,693 | 30,115,396 | 56,927,578 | 125,380,258 | 232,928,603 | 9,742,185 | 1,814,922 | 4,093,578 |
| (34) | 2013 | 8 | 333,857,598 | 32,441,863 | 50,446,754 | 133,079,655 | 239,449,521 | 10,793,630 | 2,087,341 | 4,687,467 |
| (35) | 2013 | 9 | 254,088,480 | 24,708,010 | 52,051,700 | 118,358,382 | 216,826,871 | 10,574,318 | 1,970,522 | 4,915,985 |
| (36) | 2013 | 10 | 189,586,425 | 18,719,342 | 42,366,479 | 99,178,037 | 203,026,062 | 9,754,769 | 1,902,449 | 5,522,074 |
| (37) | 2013 | 11 | 191,560,880 | 19,653,126 | 40,363,087 | 98,176,139 | 191,646,535 | 10,186,130 | 1,846,398 | 6,064,161 |
| (38) | 2013 | 12 | 244,132,254 | 25,658,391 | 48,523,993 | 102,835,701 | 200,908,938 | 8,239,598 | 1,881,226 | 7,039,472 |
| (39) | 2013 | | 2,877,138,707 | 296,164,190 | 584,002,492 | 1,301,770,277 | 2,488,929,271 | 113,289,030 | 22,768,427 | 64,982,902 |
| (40) | 2014 | 2 | 263,037,864 | 29,021,708 | 52,422,210 | 107 171 540 | 210,928,787 | 8,396,998 | 2,193,741 | 6 282 122 |
| (42) | 2014 | 3 | 245 424 387 | 25,997,912 | 51 815 881 | 101.964.129 | 198 441 003 | 7 170 664 | 1 786 214 | 5 322 165 |
| (42) | 2014 | 4 | 210.121.648 | 22,413,208 | 46.088.759 | 98,705,038 | 201,212,711 | 8.803.921 | 2.027.668 | 4,859,305 |
| (44) | 2014 | 5 | 195,893,347 | 20,722,595 | 45,101,222 | 103,435,782 | 205,886,903 | 9,214,558 | 2,009,991 | 4,679,271 |
| (45) | 2014 | 6 | 188,344,151 | 18,568,239 | 44,362,201 | 101,229,153 | 195,113,759 | 9,803,267 | 2,150,872 | 3,605,805 |
| (46) | 2014 | 7 | 253,309,391 | 27,627,275 | 51,695,504 | 116,656,860 | 207,643,663 | 10,112,768 | 1,868,046 | 3,928,051 |
| (47) | 2014 | 8 | 276,242,883 | 28,975,206 | 55,434,248 | 122,432,650 | 153,767,789 | 9,715,974 | 2,037,981 | 4,190,348 |
| (48) | 2014 | 9 | 251,271,530 | 26,638,555 | 53,002,608 | 119,259,882 | 231,273,213 | 3,560,268 | 1,869,332 | 5,304,104 |
| (49) | 2014 | 10 | 195,347,982 | 20,622,299 | 44,403,633 | 104,204,848 | 256,704,936 | 1,421,114 | 2,099,334 | 5,670,485 |
| (50) | 2014 | 11 | 191,864,481 | 21,085,106 | 42,265,380 | 105,046,828 | 204,530,072 | 1,627,302 | 1,974,718 | 6,036,531 |
| (51) | 2014 | 12 | 232,935,064 | 25,799,279 | 47,807,719 | 107,417,420 | 202,866,402 | 974,985 | 2,145,782 | 7,005,971 |
| (52) | 2014 | | 2,777,929,304 | 294,402,953 | 589,252,247 | 1,301,859,166 | 2,480,678,947 | 79,588,466 | 23,867,162 | 64,033,154 |
| (53) | 2015 | 1 | 262,763,693 | 28,899,123 | 51,736,158 | 106,722,023 | 195,242,363 | 599,696 | 1,922,981 | 7,443,788 |
| (54) | 2015 | 2 | 266,622,832 | 29,883,476 | 54,935,245 | 107,682,866 | 211,264,243 | 464,048 | 1,816,228 | 5,909,751 |
| (55) | 2015 | л л | 241,039,610 | 27,014,032 | 23,137,043 47 846 324 | 100,025,506 | 200,957,103 | 407,032 | 1,732,108 | 4 850 544 |
| (57) | 2015 | 5 | 176 386 527 | 20,710,041 | 42 171 325 | 96 525 702 | 190 549 065 | 897 137 | 2,026,489 | 4 525 372 |
| (58) | 2015 | 6 | 197.274.153 | 22,113,238 | 46.004.935 | 109.235.977 | 206.857.087 | 1.736.283 | 2,088.454 | 3.752.332 |
| (59) | 2015 | 7 | 249,858,214 | 27,247,004 | 50,877,303 | 116,814,448 | 206,353,154 | 1,244,936 | 1,922,369 | 3,917,710 |
| (60) | 2015 | 8 | 299,246,396 | 31,805,513 | 57,915,652 | 127,667,492 | 229,653,731 | 1,768,004 | 1,965,492 | 4,472,362 |
| (61) | 2015 | 9 | 300,033,647 | 31,832,747 | 57,222,864 | 129,734,011 | 230,310,815 | 1,790,374 | 2,088,151 | 4,985,365 |
| (62) | 2015 | 10 | 208,186,968 | 22,298,236 | 45,624,922 | 106,659,939 | 193,969,454 | 1,339,704 | 1,957,462 | 5,438,897 |
| (63) | 2015 | 11 | 178,424,679 | 20,023,613 | 40,532,340 | 94,315,077 | 187,321,542 | 1,379,573 | 1,958,351 | 5,976,945 |
| (64) | 2015 | 12 | 229,246,447 | 26,184,930 | 48,222,652 | 107,769,579 | 202,986,509 | 604,257 | 2,176,665 | 6,937,889 |
| (65) | 2015 | 1 | 2 820 475 793 | 314 540 744 | 596 247 363 | 1 313 478 656 | 2 453 311 988 | 12 916 982 | 23 508 359 | 63 489 641 |

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5010

In Re: Commission's Review of the Benefits and Costs of Net Metering Calculation

Attachment PUC 6-2

kWh Deliveries by Rate Class

| | YEAR | MONTH | A-16 | A-60 | C-06 | G-02 | G-32/G-62 * | B-32/B-62 | X-01 | SL |
|-------|----------|--------|--------------------|--------------|-------------|---------------|---------------|--------------|------------|-------------|
| | | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) |
| (66) | 2016 | 1 | 242,152,785 | 26,888,629 | 48,884,544 | 107,598,964 | 192,024,399 | 719,459 | 1,878,619 | 7,379,873 |
| (67) | 2016 | 2 | 226,252,038 | 26,204,238 | 48,885,337 | 101,290,898 | 199,475,615 | 528,036 | 1,890,314 | 5,711,285 |
| (68) | 2016 | 3 | 224,723,887 | 20,178,858 | 49,518,857 | 106, 196, 954 | 198,691,441 | 746,819 | 1,940,779 | 5,412,154 |
| (69) | 2016 | 4 | 203,105,418 | 16,420,140 | 45,896,540 | 100,224,108 | 197,535,950 | 813,707 | 2,051,947 | 5,156,191 |
| (70) | 2016 | 5 | 172,406,306 | 14,026,563 | 40,476,709 | 93,924,677 | 180,019,594 | 977,669 | 1,887,984 | 2,953,889 |
| (71) | 2016 | 6 | 222,650,956 | 17,377,870 | 47,895,129 | 110,243,864 | 206,860,980 | 1,276,169 | 2,052,916 | 2,821,171 |
| (72) | 2016 | 7 | 276,682,977 | 21,035,433 | 54,107,969 | 122,799,952 | 209,875,142 | 1,954,199 | 2,037,817 | 2,997,636 |
| (73) | 2016 | 8 | 340,404,826 | 25,257,610 | 59,249,067 | 130,797,496 | 223,997,649 | 1,491,047 | 2,035,447 | 2,965,303 |
| (74) | 2016 | 9 | 300,557,459 | 22,359,260 | 56,897,708 | 128,603,649 | 227,780,001 | 1,180,064 | 1,931,119 | 3,535,294 |
| (75) | 2016 | 10 | 208,684,979 | 16,270,586 | 46,306,388 | 106,141,077 | 199,418,142 | 1,027,590 | 1,959,607 | 4,144,315 |
| (76) | 2016 | 11 | 191,076,089 | 15,217,176 | 41,907,532 | 96,570,758 | 186,543,182 | 1,416,726 | 1,890,091 | 4,268,515 |
| (77) | 2016 | 12 | 220,739,138 | 17,035,481 | 45,106,569 | 99,457,256 | 192,222,148 | 1,101,682 | 2,119,277 | 4,630,537 |
| (78) | 2010 | 1 | 2,829,430,838 | 238,871,844 | 52 081 155 | 107 697 512 | 2,414,444,243 | 703 207 | 1 829 122 | 5 101 139 |
| (80) | 2017 | 2 | 232,108,045 | 18 705 178 | 50 748 324 | 101,007,012 | 193,315,070 | 730 713 | 1,029,122 | 4 103 967 |
| (81) | 2017 | 3 | 216 966 686 | 17 159 044 | 49 350 302 | 103 684 327 | 191 183 154 | 745 940 | 1 804 590 | 3 744 260 |
| (82) | 2017 | 4 | 212,721,080 | 17,236,272 | 49,101,988 | 101,534,869 | 193,719,852 | 846.859 | 2,203,445 | 2,510,705 |
| (83) | 2017 | 5 | 181,988,443 | 15.059.950 | 45,808,020 | 95,569,388 | 181,362,102 | 789,781 | 2,096,059 | (3,369,134) |
| (84) | 2017 | 6 | 208,089,859 | 16,491,327 | 51,594,545 | 105,225,996 | 197,947,470 | 2,199,060 | 1,982,779 | 8,972,493 |
| (85) | 2017 | 7 | 285,718,413 | 21,980,550 | 56,322,807 | 121,798,204 | 212,104,718 | 1,506,417 | 2,012,947 | 4,331,961 |
| (86) | 2017 | 8 | 291,596,778 | 21,320,244 | 55,939,267 | 120,414,340 | 215,797,440 | 1,372,651 | 2,073,479 | 3,259,913 |
| (87) | 2017 | 9 | 248,948,082 | 17,851,227 | 52,715,042 | 115,953,161 | 202,843,468 | 1,416,307 | 2,054,627 | 2,989,350 |
| (88) | 2017 | 10 | 203,708,613 | 14,079,927 | 46,607,739 | 107,590,047 | 206,100,881 | 885,544 | 1,899,682 | 3,092,744 |
| (89) | 2017 | 11 | 207,163,272 | 13,588,220 | 46,421,318 | 102,566,639 | 189,573,082 | 1,908,607 | 2,080,524 | 4,484,913 |
| (90) | 2017 | 12 | 220,168,627 | 14,087,131 | 47,214,515 | 97,766,022 | 183,773,453 | 1,063,179 | 2,049,985 | 4,881,579 |
| (91) | 2017 | | 2,762,286,847 | 208,428,442 | 603,905,022 | 1,281,724,385 | 2,360,724,647 | 14,168,265 | 24,030,289 | 44,193,890 |
| (92) | 2018 | 1 | 289,024,326 | 19,324,925 | 59,483,294 | 114,009,381 | 210,193,292 | 640,614 | 1,871,652 | 13,202,486 |
| (93) | 2018 | 2 | 239,702,919 | 16,777,923 | 53,612,875 | 102,265,595 | 178,124,498 | 743,742 | 1,964,976 | 9,213,221 |
| (94) | 2018 | 3 | 211,615,232 | 15,776,740 | 50,221,376 | 100,761,788 | 188,851,636 | 1,022,040 | 1,896,605 | 3,391,718 |
| (95) | 2018 | 4 | 205,029,503 | 15,509,312 | 48,742,952 | 99,871,348 | 190,793,633 | 1,669,496 | 1,648,197 | 3,315,812 |
| (96) | 2018 | 5 | 197,484,232 | 15,088,024 | 48,029,027 | 101,169,485 | 185,624,773 | 1,082,871 | 2,101,865 | 2,726,776 |
| (97) | 2018 | 0 | 198,396,581 | 14,500,702 | 48,486,279 | 106,468,903 | 196,560,441 | 1,278,207 | 2,058,609 | 2,729,968 |
| (98) | 2018 | , , | 294,400,480 | 21,774,141 | 57,762,374 | 121,306,037 | 202,443,963 | 1,357,343 | 2 071 504 | 2,581,605 |
| (100) | 2018 | 9 | 324 170 041 | 23, 595, 927 | 61 646 371 | 120,491,400 | 220,097,098 | 1,441,177 | 1 947 751 | 3 516 990 |
| (100) | 2018 | 10 | 207 193 514 | 15 043 967 | 47 704 210 | 103 675 533 | 220,005,201 | 2 521 339 | 1 977 738 | 3,508,652 |
| (102) | 2018 | 10 | 196.376.207 | 14,556,400 | 45.465.247 | 94,254,171 | 181,447,396 | 717.078 | 2.001.434 | 3,843,680 |
| (103) | 2018 | 12 | 229,979,597 | 17,475,435 | 53,268,363 | 101,912,092 | 194,424,902 | 3,530,075 | 1,980,845 | 3,514,745 |
| (104) | 2018 | | 2,920,990,011 | 212,855,978 | 634,876,769 | 1,299,870,047 | 2,378,048,864 | 17,950,823 | 23,484,663 | 54,141,708 |
| (105) | 2019 | 1 | 256,031,453 | 19,032,120 | 57,116,228 | 107,762,747 | 191,679,887 | 339,853 | 1,938,082 | 4,048,163 |
| (106) | 2019 | 2 | 240,272,343 | 19,178,858 | 57,226,826 | 101,822,990 | 175,365,850 | 412,399 | 1,877,886 | 10,883,029 |
| (107) | 2019 | 3 | 219,736,184 | 18,355,960 | 56,132,333 | 101,174,693 | 189,714,874 | 988,737 | 1,855,729 | 3,608,125 |
| (108) | 2019 | 4 | 183,753,979 | 15,649,880 | 52,774,351 | 94,668,173 | 198, 390, 457 | 1,366,255 | 1,907,341 | 3,099,428 |
| (109) | 2019 | 5 | 185,764,185 | 15,401,111 | 50,210,604 | 98,788,856 | 176,486,063 | 991,650 | 2,105,713 | 2,611,252 |
| (110) | 2019 | 6 | 191,785,656 | 15,247,635 | 52,858,660 | 99,241,600 | 181,538,276 | 1,826,495 | 2,148,851 | 2,485,539 |
| (111) | 2019 | 7 | 270,542,849 | 20,211,493 | 58,577,152 | 115,086,239 | 210,768,038 | 928,112 | 1,880,909 | 2,712,580 |
| (112) | 2019 | 8 | 344,045,731 | 25,407,523 | 68,071,301 | 132,150,035 | 229,193,631 | 1,421,708 | 2,162,654 | 2,911,276 |
| (113) | 2019 | 9 | 261,815,047 | 18,833,878 | 59,479,002 | 115,103,865 | 203,364,189 | 1,295,722 | 2,044,647 | 3,058,398 |
| (114) | 2019 | 10 | 185,762,701 | 13,864,421 | 50,199,478 | 99,469,750 | 180,028,050 | 965,051 | 2,058,508 | 605,254 |
| (115) | 2019 | 11 | 176,457,939 | 13,701,980 | 45,663,614 | 90,847,607 | 184,306,877 | 910,544 | 1,919,069 | 6,085,178 |
| (116) | 2019 | 12 | 218,680,024 | 17,303,240 | 52,483,273 | 100,320,108 | 186,187,830 | 1,641,965 | 1,882,372 | 3,229,324 |
| (117) | 2019 | 1 | 2,734,648,091 | 212,188,099 | 660,792,822 | 1,256,436,663 | 2,307,024,022 | 13,088,491 | 23,781,761 | 45,337,546 |
| (118) | 2020 | 1 | 262,620,380 | 19,348,134 | 61,334,981 | 08 574 412 | 84,830,332 | 811,530 | 2,170,506 | 6,213,304 |
| (120) | 2020 | 3 | 200, 220, 220, 243 | 16 532 919 | 55 649 222 | 97 883 566 | 197 985 464 | 535 701 | 2,101,337 | 3,012,030 |
| (121) | 2020 | 4 | 205,593,448 | 16,772,046 | 50,309,117 | 90,268.378 | 192,609,707 | 545,943 | 1.382.797 | 5,384,169 |
| (122) | 2020 | 5 | 201.016.204 | 16.426.723 | 47.525.067 | 80.854.270 | 182.242.996 | 832.633 | 473.155 | 2,862.459 |
| (123) | 2020 | 6 | 210,448,899 | 16,372,521 | 48,592,143 | 87,178,918 | 183,452,142 | 745,792 | 476,935 | 2,765,974 |
| (124) | 2020 | 7 | 316,255,729 | 23,097,518 | 59,189,208 | 107,114,514 | 193,762,962 | 1,505,548 | 909,345 | 1,584,710 |
| (125) | 2020 | 8 | 382,026,612 | 29,029,822 | 66,084,617 | 124,902,250 | 200,899,832 | 1,241,182 | 871,016 | 2,393,154 |
| (126) | 2020 | 9 | 266,952,054 | 19,862,580 | 56,337,542 | 103,537,158 | 187,228,982 | 663,320 | 862,206 | 2,438,433 |
| (127) | 2020 | 10 | 206,584,212 | 14,626,519 | 53,398,996 | 98,229,432 | 177,818,359 | 1,866,971 | 1,122,182 | 4,592,676 |
| (128) | 2020 | 11 | 198,500,947 | 14,668,071 | 45,324,036 | 84,875,228 | 164,658,697 | 1,696,601 | 1,176,896 | 4,071,678 |
| (129) | 2020 | 12 | | | | | | | | |
| (130) | 2020 YTD | | 2,659,822,247 | 203,094,913 | 597,847,564 | 1,087,886,699 | 1,969,864,168 | 11,013,847 | 13,970,739 | 38,999,333 |

* Effective September 1, 2018 rate classes B-32 and B-62 and G-32 and G-62 were combined and customers on G-62 were moved to G-32. There were no customers on B-62 at the time. kWh displayed prior to September 2018 include rates B-62 and G-62.

<u>PUC 6-3</u>

Request:

With regards to National Grid's class average load shape methodology detailed in PUC 5-2 (Docket No. 5010), please explain the following:

- a) For a given rate class, how does National Grid group customers into the 3-5 strata from which customers are randomly sampled? What do the strata correspond to: seasonal peaking characteristics (summer vs. winter)? Total annual consumption? Monthly consumption? Something else?
- b) In response to PUC 5-2, National Grid described a process of "random sampling" through which it selects sample customer sites from each stratum, off which to base its class average load shape. Please clarify what happens to customers who are randomly selected. How does National Grid actually construct the 8760 hourly load shape for those customers, using what real billing data?
- c) For each rate class where National Grid models a class average load shape, please provide the specific number (or range) of customers who are randomly selected across all strata to construct the class average load shape.

Response:

- a) National Grid uses annual usage to group customers into strata.
- b) National Grid bases its class average load shapes on sample customer interval data and monthly class level billed sales. National Grid's process weights each sample customer's interval data, using stratum-level weighting factors. Monthly class level billed sales include the count of billed customers and their total billed kWh.
- c) Please see the following table:

| Rate Class | Sample Customers Selected Across All Strata | | | | |
|---------------|--|--|--|--|--|
| A16 | 282 | | | | |
| C06 | 270 | | | | |
| G02 | 337 | | | | |

<u>PUC 6-4</u>

Request:

National Grid has historically accounted for avoided Marginal Distribution Cost (MDC) in its annual Energy Efficiency plan (filed in Table E-6). For each of the five most recent annual Energy Efficiency plans (or more, if practicable), please provide a table with the following information:

- 1. the MDC rate (\$/kW) used to calculate the total avoided MDC value.
- 2. an explanation of how National Grid estimated that MDC rate, using what data.

Response:

The table below shows the MDC rate (kW) used in each of the annual Energy Efficiency plans from 2016 - 2020.

| Energy Efficiency Plan Year | MDC (\$/kW) |
|-----------------------------|-------------|
| 2020 | \$80.24 |
| 2019 | \$80.24 |
| 2018 | \$79.82 |
| 2017 | \$73.87 |
| 2016 | \$73.87 |

Electric distribution capacity benefits (referred to here as avoided MDC) are valued in the Company's energy efficiency plans by using avoided distribution capacity values calculated in a spreadsheet tool that was developed in 2005 by ICF International, Inc., updated with recommendations from AESC (Avoided Energy Supply Components in New England) studies. The Company uses the spreadsheet tool to calculate an annualized value of statewide avoided distribution capacity values from Company-specific inputs of historic and projected capital expenditures and loads, as well as a carrying charge calculated from applicable tax rates and Federal Energy Regulatory Commission (FERC) Form 1 accounting data. The Company calculated its values as follows: the 2019-2020 plans used 2018 AESC Studies; the 2018 plan used 2015 AESC study data with an updated methodology; and the 2016-2017 plans used 2015 AESC study with the older methodology.

<u>PUC 6-5</u>

Request:

With regards to the five most recent Electric ISR Plan years, please explain the following:

- a) For each of the five most recent Plan years, how much annual investment (\$) in Load Relief projects (a sub-category of capital spending) was approved by the Commission?
- b) For each of the five most recent Plan years, what was the total MW capacity of load relief associated with the Load Relief projects approved by the Commission? Please explain the methodology you use to estimate this load relief capacity.
- c) In any given Plan year, National Grid gets approval to invest in Load Relief projects; those Load Relief projects may be located throughout the distribution system and are located on specific distribution system assets (e.g. feeders and substations). For each of the five most recent Plan years, what percentage (%) did the specific distribution system assets on which the approved Load Relief investments were to be located represent of total distribution system peak demand (in that year)? Please provide a table with your responses for each of the ISR Plan years.
- d) The approved Load Relief investments in an annual ISR Plan represent potential spending over a multi-year time horizon; actual spending on Load Relief projects in a given year gets recovered from customers through the CapEx factor. Please explain how National Grid determines actual spending on Load Relief projects in a given year. In other words, how does National Grid amortize the approved Load Relief project expenditures from previous years' ISR Plans in order to arrive at an actual Load Relief revenue requirement for a given year?
- e) Please provide a table showing Commission-approved Load Relief project spending from each of the last five ISR Plan years, and the actual Load Relief expenditures that get recovered from customers in the corresponding rate period through the CapEx factor. Please specify what time periods (months and years) each response corresponds to.

Response:

a) Load Relief projects are generally large projects that span multiple years. Project spending usually occurs before projects are placed in service. Spending and plant in service investments often vary by year. The Company defines "investment" as plant in service, which is the accumulated cost related to the assets that are used or useful and the Company uses plant in service when developing a revenue requirement. In addition, when categorizing projects for purposes of the ISR, the Company uses the primary driver of a project for categorization, but many Load Relief projects also support other categories, such as Asset Condition. The Company classifies costs based on the primary driver; therefore, the costs shown below are those associated with all drivers, and not only Load Relief. Thus, the amounts of Load Relief projects invested in plant in service for each of the five years is:

| | Load Relief Cate | gory Plant in Se | ervice (in \$ Tho | usands) rounde | ed to \$100,000 |
|------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | Fiscal Year 2020 | Fiscal Year 2019 | Fiscal Year 2018 | Fiscal Year 2017 | Fiscal Year 2016 |
| | | | | | |
| Plant in Service | \$29,300 | \$27,200 | \$7,800 | \$23,000 | \$9,900 |

b) The MW capacity of load relief provided by a Load Relief project can be viewed and quantified in various ways. For purposes of this response, the Company reviewed the Load Relief projects at the substation transformer level and listed the amount of new capacity added to the system as part of these projects. In other words, the MW capacity of load relief was calculated based upon either the introduction of a brand-new transformer or upgrading an existing transformer with a larger size. This does not mean that this full capacity is readily available and can be utilized at this time as more work may be required in order to use that capacity. For example, a Load Relief project may introduce a brand-new transformer (not a replacement) that is rated for 50MVA of load, but the project only includes installing two new distribution feeders at this time (~20MW). There is an available ~30MW on this transformer but new projects would be required to build the feeders to utilize this capacity with associated project costs. For the purposes of this data request, the Company would state this project resulted in 50MW of load relief.

The following table summarizes MW capacity created from Load Relief projects that had plant in service investments in the past five years as compared to the peak MW for the associated year that such projects were placed in service.

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 5010 In Re: Commission's Review of the Benefits and Costs of Net Metering Calculation Responses to Commission's Sixth Set of Data Requests Issued on December 7, 2020

| | <u>FY20</u> | <u>FY19</u> | <u>FY18</u> | <u>FY17</u> | <u>FY16</u> |
|---------------------|-------------|-------------|-------------|-------------|-------------|
| MW Capacity created | 64 | 27 | 71 | 111 | 3 |
| MW Peak | 1,855 | 1,750 | 1,847 | 1,688 | 1,803 |
| Percent | 3.46% | 1.56% | 3.84% | 6.55% | 0.15% |

As noted above, there are a number of important caveats regarding the Company's provision of data about Load Relief projects, here. Such as:

- The Company does not track or compare its investments in Load Relief projects and corresponding effect on available capacity on a year-by-year basis, as posed by this question.
- For an overview, this response compares the investments and capacity created by Load Relief projects at the substation transformer level, without factoring in any associated infrastructure (e.g. substation improvements or installation of distribution lines) that also may be needed to fully use the additional capacity. Including any additional, resulting investments in this answer would require a more detailed analysis by the Company.
- Most large Load Relief projects have individual components that go into service over different years. For the purposes of this response to a data request, the Company used the date the last portion of the Load Relief project went into service for identifying the MW peak year.
- The projects reviewed could have associated projects not included in this list that were required in order for these projects to occur. In other words, there could be additional costs not included in the Load Relief or System Capacity category in the Plan associated with this capacity relief at other substations and/or feeders.
- The costs provided include all issues that a project is addressing, not load relief alone. Projects can address a variety of issues and very rarely are there only load relief issues. The additional types of issues these projects could address include but are not limited to: asset condition issues, reliability issues, and operational or worker safety concerns.
- c) Please see the table provided in response to subpart (b), above.
- d) For purposes of determining the revenue requirement in developing the CapEx Factor, plant in service, or "investment", not actual capital spending is used. Therefore, recovery would not commence until the year plant is placed in service using associated investment amounts and would occur over the life of the assets, regardless of when the spending occurred.

e) Please refer to Attachment PUC 6-5. Page 1 shows the revenue requirement by Fiscal Year (FY) on the Load Relief-related investments placed into service during FYs 2016 through 2020 as noted in part (b), totaling \$6.5 million. Page 2 provides a calculation to support the amount of property tax recovery shown on Page 1, Line 16. Please note that the Attachment reflects the revenue requirement collected through CapEx factors as requested, which applies to ISR capital investment incremental to the level of capital investment assumed in distribution base rates. Therefore, using capital investments placed into service during FY 2016 as an example, Attachment PUC 6-5 shows no associated revenue requirement through CapEx factors from September 1, 2018 and forward, as that was the effective date of the Company's most recently approved distribution rate plan.

The Narragansett Electric Company d/b/a National Grid

Electric Infrastructure, Safety, and Reliability (ISR) Plan - Load Relief-related Capital Investment Annual Revenue Requirement Summary (\$000s)

| | | (00 | Revenue Requirement Amount /Year | | | | | | 7 | |
|--------------|---|------------|----------------------------------|---------|---------|----------------|----------------|---------|---------|--|
| Line | | Investment | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2019 | FY 2020 | Total | |
| | Plant In-Service Year (aka Vintage | | | | | Apr - Aug | Sept-Mar | | | |
| <u>No.</u> | Year): | Amount | | | | <u>(5 mos)</u> | <u>(7 mos)</u> | | | |
| | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | |
| | Total ISR capital investment: | | | | | | | | | |
| 1 | FY 2016 ISR capital investment | \$72,003 | \$2,006 | \$3,933 | \$3,704 | \$1,396 | | | | |
| 2 | FY 2017 ISR capital investment | \$75,489 | | \$1,875 | \$3,595 | \$1,356 | | | | |
| 3 | FY 2018 ISR capital investment | \$92,660 | | | \$3,287 | \$2,495 | \$1,280 | \$2,113 | | |
| 4 | FY 2019 ISR capital investment | \$111,243 | | | | \$1,916 | \$1,555 | \$4,443 | | |
| 5 | FY 2020 ISR capital investment | \$103,268 | | | | | | \$2,529 | | |
| 6 | FY 2016 Return, tax and depreciation % | | 2.79% | 5.46% | 5.14% | 1.94% | | | | |
| 7 | FY 2017 Return, tax and depreciation % | | | 2.48% | 4.76% | 1.80% | | | | |
| 8 | FY 2018 Return, tax and depreciation % | | | | 3.55% | 2.69% | 1.38% | 2.28% | | |
| 9 | FY 2019 Return, tax and depreciation % | | | | | 1.72% | 1.40% | 3.99% | | |
| 10 | FY 2020 Return, tax and depreciation % | | | | | | | 2.45% | | |
| | Load Relief-related capital investment: | | | | | | | | | |
| 11 | FY 2016 Load Relief capital investment | \$4,368 | \$122 | \$239 | \$225 | \$85 | | | \$670 | |
| 12 | FY 2017 Load Relief capital investment | \$21,711 | | \$539 | \$1,034 | \$390 | | | \$1,963 | |
| 13 | FY 2018 Load Relief capital investment | \$5,947 | | | \$211 | \$160 | \$82 | \$136 | \$589 | |
| 14 | FY 2019 Load Relief capital investment | \$25,723 | | | | \$443 | \$359 | \$1,027 | \$1,830 | |
| 15 | FY 2020 Load Relief capital investment | \$28,592 | | | | | | \$700 | \$700 | |
| 16 | Property tax allowance | | \$50 | \$94 | \$27 | \$115 | \$128 | \$305 | \$718 | |
| 17 | Total Fiscal Year revenue requirement | | \$172 | \$872 | \$1,496 | \$1,193 | \$570 | \$2,168 | \$6,470 | |
| Column Note: | | | | | | | | | | |
| (h) | Sum of Col (c) through Col (g) | | | | | | | | | |

Line Notes:

| ne notes. | |
|-------------|--|
| 1 | Docket 4915 FY 2020 ISR Reconciliation, Att. MAL-2 Compliance: (a) = P 13, L 5; (b)-(d) = P 13, L 37; (e) = P 13, L 38; (f) (g), rolled into base rates |
| 2 | Docket 4915 FY 2020 ISR Reconciliation, Att. MAL-2 Compliance: (a) = P 10, L 3; (c)– (d) = P 10, L 34; (e) = P 10, L 35; (f) (g), rolled into base rates |
| 3 | Docket 4915 FY 2020 ISR Reconciliation, Att. MAL-2 Compliance: (a) = P 7, L 3; (d) = P 7, L 34; (e) = P 7, L 35; (f) (g) = MAL-1 C, P3, L35(b), L34(c) |
| 4 | Docket 4915 FY 2020 ISR Reconciliation, Att. MAL-2 Compliance: (a) = P 2, L 3 + P5, L5(c); (e) = P 2, L 35; (f) (g) = MAL-1 C, P6, L 34 |
| 5 | Docket 4915 FY 2020 ISR Reconciliation, Att. MAL-1 Compliance: (a) = P 15, L 1(c); (f) = P 11, L 35 |
| 6 | $L 1(b) \sim (g) / L 1(a)$ |
| 7 | L 2(b) ~ (g) / L 2(a) |
| 8 | L 3(b) ~ (g) / L 3(a) |
| 9 | L 4(b) ~ (g) / L 4(a) |
| 10 | L 5(b) ~ (g) / L 5(a) |
| 11(a)~15(a) | Per Company's response to PUC 6-5 part (b) |
| 11(b)-(g) | 11(a)×L6 |
| 12(b)-(g) | 12(a)×L7 |
| 13(b)-(g) | 13(a)×L8 |
| 14(b)-(g) | 14(a)×L9 |
| 15(b)-(g) | 15(a)×L10 |
| 16 | Page 2 of 2 |

17 Sum of Lines 11 through 16

The Narragansett Electric Company d/b/a National Grid

Electric Infrastructure, Safety, and Reliability (ISR) Plan - Load Relief-related Capital Investment

Annual Revenue Requirement Summary - Property Tax Recovery Mechanism . (\$000s)

| | | | (\$0000) | | | | | | |
|------------|--|------------|-----------------------------------|---------|---------|--------------|-------------|---------|-------|
| | | | Revenue Requirement Amount / Year | | | | | | |
| Line | | Investment | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2019 | FY 2020 | Total |
| | | | | | | Apr - Aug (5 | Sept-Mar (7 | | |
| <u>No.</u> | | Amount | | | | <u>mos)</u> | <u>mos)</u> | | |
| | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) |
| | Property Tax Recovery on total ISR capital invest | tment: | | | | | | | |
| 1 | FY 2014 Net Plant Additions | | \$2 | \$2 | \$2 | \$1 | | | |
| 2 | FY 2015 Net Plant Additions | | \$38 | \$36 | \$34 | \$32 | | | |
| 3 | FY 2016 Net Plant Additions | \$72,003 | \$36 | \$35 | \$34 | \$32 | | | |
| 4 | FY 2017 Net Plant Additions | \$75,489 | | \$39 | \$38 | \$37 | | | |
| 5 | FY 2018 Net Plant Additions | \$92,660 | | | \$58 | \$56 | \$18 | \$18 | |
| 6 | FY 2019 Net Plant Additions | \$111,243 | | | | \$75 | \$36 | \$34 | |
| 7 | FY 2020 Net Plant Additions | \$103,268 | | | | | | \$82 | |
| 8 | Total Net Plant Additions for Property Tax | | \$77 | \$113 | \$166 | \$233 | \$54 | \$133 | |
| 9 | FY 2016 Net Plant % | | 47.35% | 31.09% | 20.21% | 13.77% | 0.00% | 0.00% | |
| 10 | FY 2017 Net Plant % | | | 34.98% | 23.03% | 15.89% | 0.00% | 0.00% | |
| 11 | FY 2018 Net Plant % | | | | 35.14% | 23.96% | 34.13% | 13.26% | |
| 12 | FY 2019 Net Plant % | | | | | 31.98% | 65.87% | 25.24% | |
| 13 | FY 2010 Net Plant % | | | | | | | 61.51% | |
| 14 | Property Tax Recovery Adjustment | | \$1,740 | \$787 | \$263 | \$800 | \$736 | \$1,284 | |
| | Property Tax Recovery on Load Relief Investmer | nt: | | | | | | | |
| 15 | FY 2016 Load Relief capital investment | \$4,368 | \$50 | \$15 | \$3 | \$7 | \$0 | \$0 | \$75 |
| 16 | FY 2017 Load Relief capital investment | \$21,711 | | \$79 | \$17 | \$37 | \$0 | \$0 | \$133 |
| 17 | FY 2018 Load Relief capital investment | \$5,947 | | | \$6 | \$12 | \$16 | \$11 | \$45 |
| 18 | FY 2019 Load Relief capital investment | \$25,723 | | | | \$59 | \$112 | \$75 | \$246 |
| 19 | FY 2020 Load Relief capital investment | \$28,592 | | | | | | \$219 | \$219 |
| 20 | Total Fiscal Year Property Tax Recovery on Load Relief-related Investment | | \$50 | \$94 | \$27 | \$115 | \$128 | \$305 | \$718 |

<u>Column Notes:</u> Per Docket 4915 FY 2020 ISR Reconciliation, Att. MAL-1 Compliance and Att. MAL-2 Compliance:

Line 1 ~3, MAL-2, P30, Col (j), Lines 29 through 31 (b)

Line 1 ~4, MAL-2, P31, Col (a), Lines 67 through 70 (c)

- (d) Line 1 ~5, MAL-2, P31, Col (g), Lines 67 through 71
- Line 1 ~6, MAL-2, P31, Col (k), Lines 67 through 72 (e)
- (f) Line 5~6, MAL-1, P21, Col (a), Lines 40 through 41
- Line 5~7, MAL-1, P21, Col (e), Lines 40 through 42 (g)

Sum of Col (c) through Col (g) (h)

Line Notes:

| me Notes: | | | |
|-----------|--|----|--------------------------------|
| 3 | MAL-2: (a) = P 13, L 5 | 15 | L 14 × L 9 × L 15(a) / L 3(a) |
| 4 | MAL-2 Compliance: (a) = $P 10$, L 3 | 16 | L 14 × L 10 × L 16(a) / L 4(a) |
| 5 | MAL-2 Compliance: (a) = $P 7$, L 3 | 17 | L 14 × L 11 × L 17(a) / L 5(a) |
| 6 | MAL-2 Compliance: (a) = $P 2$, $L 3 + P5$, $L5(c)$ | 18 | L 14 × L 12 × L 18(a) / L 6(a) |
| 7 | MAL-1 Compliance: (a) = P 15, L 1(c) | 19 | L 14 × L 13 × L 19(a) / L 7(a) |
| 8 | Sum of Lines 3 through 7 | 20 | Sum of Lines 15 through 19 |

L3/L8 9

- L5/L8 11
- 12 L6/L8

13 L7/L8

14 MAL-1, (b) = P 30, L 32(k); (c) (d) = P31, L 74(c), 74(g); (e) (f) = MAL-1, P 2, L15(b), L 15 (c); (g) = MAL-1, P1, L9(b)

¹⁰ L4/L8