**Robert J. Humm**
Senior Counsel

February 16, 2018

**VIA HAND DELIVERY & ELECTRONIC MAIL**

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

**RE: Docket 4719 - 2017 Gas Cost Recovery Interim Filing**
**Responses to Division Data Requests – Set 4**

Dear Ms. Massaro:

Enclosed please find 10 copies of National Grid's[1] responses to the following requests from the Rhode Island Division of Public Utilities and Carriers Fourth Set of Data Requests issued on February 5, 2018 in the above-referenced docket: Division 4-2, 4-3, 4-5, and 4-6; Division 4-8 through 4-16; Division 4-21 through 4-23; and Division 4-25 through 4-27

Thank you for your attention to this matter. If you have any questions, please contact me at 401-784-7415.

Very truly yours,

Robert J. Humm

Enclosures

cc: Docket 4719 Service List
Leo Wold, Esq.
Al Mancini, Division
Bruce Oliver, Division
Tim Oliver, Division

[1] The Narragansett Electric Company d/b/a National Grid (National Grid or the Company).

280 Melrose Street, Providence, RI 02907
T: 401-784-7415 ■ robert.humm@nationalgrid.com ■ www.nationalgrid.com

Division 4-2

Request:

Re: National Grid's January 29, Interim Gas Cost Recovery Filing and the testimony of Witness Leary at page 4, lines 11-16, please:

a. Provide the actual daily spot market prices for gas purchased in the market area for each pipeline from which market area purchases were available during the period November 1, 2017 through January 31, 2018.

b. Identify the volumes of spot market gas purchases made in the market area from each pipeline supplier and for each delivery point for each day of the period November 1, 2017 through January 31, 2018.

c. Provide for National Grid's Rhode Island system:

   i. The actual degree days recorded for each day; and
   ii. The estimated normal weather degree days for each day.

Response:

a. Please see the information below the daily Algonquin Gas Transmission citygate and Tennessee Gas Pipeline Zone 6 prices, as posted in Platt's Gas Daily during the period November 1, 2017 through January 31, 2018.

| November 2017 | | | December 2017 | | | January 2018 | | |
|---|---|---|---|---|---|---|---|---|
| Day | Algonquin | Tennessee | Day | Algonquin | Tennessee | Day | Algonquin | Tennessee |
| 1 | $2.075 | $2.065 | 1 | $2.940 | $3.425 | 1 | $24.700 | $25.935 |
| 2 | $1.185 | $1.065 | 2 | $2.805 | $3.160 | 2 | $24.700 | $25.935 |
| 3 | $1.280 | $1.350 | 3 | $2.805 | $3.160 | 3 | $20.575 | $29.850 |
| 4 | $1.040 | $1.355 | 4 | $2.805 | $3.160 | 4 | $38.215 | $41.545 |
| 5 | $1.040 | $1.355 | 5 | $2.910 | $3.620 | 5 | $78.880 | $90.575 |
| 6 | $1.040 | $1.355 | 6 | $3.430 | $4.370 | 6 | $24.605 | $31.000 |
| 7 | $2.245 | $2.510 | 7 | $4.150 | $5.015 | 7 | $24.605 | $31.000 |
| 8 | $3.010 | $3.315 | 8 | $3.995 | $4.935 | 8 | $24.605 | $31.000 |
| 9 | $3.470 | $3.765 | 9 | $6.620 | $7.225 | 9 | $15.135 | $15.135 |
| 10 | $8.190 | $8.970 | 10 | $6.620 | $7.225 | 10 | $10.025 | $11.695 |

Prepared by or under the supervision of: Nancy G. Culliford

Division 4-2, page 2

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 11 | $5.605 | $6.595 | 11 | $6.620 | $7.225 | 11 | $4.480 | $6.055 |
| 12 | $5.605 | $6.595 | 12 | $6.465 | $7.130 | 12 | $3.385 | $4.665 |
| 13 | $5.605 | $6.595 | 13 | $9.320 | $10.290 | 13 | $15.140 | $14.930 |
| 14 | $4.275 | $4.080 | 14 | $9.285 | $9.740 | 14 | $15.140 | $14.930 |
| 15 | $3.385 | $3.455 | 15 | $7.430 | $7.825 | 15 | $15.140 | $14.930 |
| 16 | $3.395 | $3.485 | 16 | $7.540 | $7.920 | 16 | $15.140 | $14.930 |
| 17 | $3.905 | $3.740 | 17 | $7.540 | $7.920 | 17 | $13.750 | $14.605 |
| 18 | $3.270 | $3.380 | 18 | $7.540 | $7.920 | 18 | $13.805 | $13.850 |
| 19 | $3.270 | $3.380 | 19 | $4.800 | $5.515 | 19 | $7.200 | $7.445 |
| 20 | $3.270 | $3.380 | 20 | $9.775 | $9.110 | 20 | $5.375 | $7.215 |
| 21 | $3.055 | $3.225 | 21 | $10.870 | $10.095 | 21 | $5.375 | $7.215 |
| 22 | $3.255 | $3.405 | 22 | $6.685 | $7.135 | 22 | $5.375 | $7.215 |
| 23 | $3.275 | $3.535 | 23 | $10.875 | $11.850 | 23 | $3.110 | $5.275 |
| 24 | $3.275 | $3.535 | 24 | $10.875 | $11.850 | 24 | $12.060 | $10.905 |
| 25 | $3.275 | $3.535 | 25 | $10.875 | $11.850 | 25 | $14.990 | $15.025 |
| 26 | $3.275 | $3.535 | 26 | $10.875 | $11.850 | 26 | $9.765 | $10.915 |
| 27 | $3.275 | $3.535 | 27 | $33.780 | $37.215 | 27 | $4.665 | $5.235 |
| 28 | $3.040 | $3.300 | 28 | $22.285 | $22.345 | 28 | $4.665 | $5.235 |
| 29 | $3.140 | $3.495 | 29 | $19.105 | $19.195 | 29 | $4.665 | $5.235 |
| 30 | $3.080 | $5.135 | 30 | $19.105 | $19.195 | 30 | $14.485 | $13.250 |
| | | | 31 | $19.105 | $19.195 | 31 | $10.345 | $12.495 |

b. Please see the information below for the volume of city gate spot purchases made by the Company by pipeline for each day during the period November 1, 2017 through January 31, 2018.

| November 2017 | | | December 2017 | | | January 2018 | | |
|---|---|---|---|---|---|---|---|---|
| Day | Algonquin | Tennessee | Day | Algonquin | Tennessee | Day | Algonquin | Tennessee |
| 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 20,000 |
| 2 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 20,000 |
| 3 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 0 |
| 4 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 10,000 |
| 5 | 0 | 0 | 5 | 0 | 0 | 5 | 15,000 | 19,794 |
| 6 | 0 | 0 | 6 | 0 | 0 | 6 | 13,300 | 20,500 |
| 7 | 0 | 0 | 7 | 0 | 0 | 7 | 15,000 | 20,500 |
| 8 | 0 | 0 | 8 | 0 | 0 | 8 | 0 | 10,000 |
| 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| 10 | 0 | 0 | 10 | 0 | 0 | 10 | 0 | 0 |
| 11 | 0 | 0 | 11 | 0 | 0 | 11 | 0 | 0 |
| 12 | 0 | 0 | 12 | 0 | 0 | 12 | 0 | 0 |
| 13 | 0 | 0 | 13 | 0 | 0 | 13 | 0 | 0 |
| 14 | 0 | 0 | 14 | 0 | 0 | 14 | 707 | 0 |
| 15 | 0 | 0 | 15 | 0 | 0 | 15 | 5,000 | 5,000 |
| 16 | 0 | 0 | 16 | 0 | 0 | 16 | 0 | 0 |
| 17 | 0 | 0 | 17 | 0 | 0 | 17 | 0 | 0 |
| 18 | 0 | 0 | 18 | 0 | 0 | 18 | 0 | 0 |
| 19 | 0 | 0 | 19 | 0 | 0 | 19 | 0 | 0 |
| 20 | 0 | 0 | 20 | 0 | 0 | 20 | 0 | 0 |
| 21 | 0 | 0 | 21 | 0 | 0 | 21 | 0 | 0 |
| 22 | 0 | 0 | 22 | 0 | 0 | 22 | 0 | 0 |
| 23 | 0 | 0 | 23 | 0 | 0 | 23 | 0 | 0 |
| 24 | 0 | 0 | 24 | 0 | 0 | 24 | 0 | 0 |
| 25 | 0 | 0 | 25 | 0 | 0 | 25 | 0 | 0 |
| 26 | 0 | 0 | 26 | 0 | 15,000 | 26 | 0 | 0 |
| 27 | 0 | 0 | 27 | 0 | 10,000 | 27 | 0 | 0 |
| 28 | 0 | 0 | 28 | 0 | 10,000 | 28 | 0 | 0 |
| 29 | 0 | 0 | 29 | 8,000 | 15,000 | 29 | 0 | 0 |
| 30 | 0 | 0 | 30 | 0 | 10,000 | 30 | 0 | 0 |
| | | | 31 | 0 | 10,000 | 31 | 0 | 0 |

c. Please see Table 1 below for the actual heating degree days recorded for each day from November 1, 2017 through January 31, 2018. Please see Table 2 below for the estimated heating degree days for each day from November 1, 2017 through January 31, 2018.

Division 4-2, page 4

**Table 1**
**Actual Weather Heating Degree Days**

| Date | HDD | Date | HDD | Date | HDD |
|---|---|---|---|---|---|
| Nov-01-17 | 8 | Dec-01-17 | 23 | Jan-01-18 | 56 |
| Nov-02-17 | 2 | Dec-02-17 | 27 | Jan-02-18 | 48 |
| Nov-03-17 | 6 | Dec-03-17 | 24 | Jan-03-18 | 41 |
| Nov-04-17 | 16 | Dec-04-17 | 24 | Jan-04-18 | 42 |
| Nov-05-17 | 3 | Dec-05-17 | 10 | Jan-05-18 | 56 |
| Nov-06-17 | 10 | Dec-06-17 | 26 | Jan-06-18 | 60 |
| Nov-07-17 | 22 | Dec-07-17 | 28 | Jan-07-18 | 48 |
| Nov-08-17 | 27 | Dec-08-17 | 28 | Jan-08-18 | 32 |
| Nov-09-17 | 19 | Dec-09-17 | 35 | Jan-09-18 | 35 |
| Nov-10-17 | 37 | Dec-10-17 | 30 | Jan-10-18 | 32 |
| Nov-11-17 | 34 | Dec-11-17 | 29 | Jan-11-18 | 18 |
| Nov-12-17 | 26 | Dec-12-17 | 30 | Jan-12-18 | 6 |
| Nov-13-17 | 26 | Dec-13-17 | 41 | Jan-13-18 | 39 |
| Nov-14-17 | 26 | Dec-14-17 | 45 | Jan-14-18 | 45 |
| Nov-15-17 | 22 | Dec-15-17 | 42 | Jan-15-18 | 44 |
| Nov-16-17 | 21 | Dec-16-17 | 39 | Jan-16-18 | 31 |
| Nov-17-17 | 29 | Dec-17-17 | 27 | Jan-17-18 | 35 |
| Nov-18-17 | 11 | Dec-18-17 | 28 | Jan-18-18 | 39 |
| Nov-19-17 | 23 | Dec-19-17 | 19 | Jan-19-18 | 31 |
| Nov-20-17 | 23 | Dec-20-17 | 31 | Jan-20-18 | 25 |
| Nov-21-17 | 12 | Dec-21-17 | 34 | Jan-21-18 | 26 |
| Nov-22-17 | 24 | Dec-22-17 | 34 | Jan-22-18 | 26 |
| Nov-23-17 | 30 | Dec-23-17 | 25 | Jan-23-18 | 19 |
| Nov-24-17 | 24 | Dec-24-17 | 29 | Jan-24-18 | 36 |
| Nov-25-17 | 15 | Dec-25-17 | 36 | Jan-25-18 | 40 |
| Nov-26-17 | 26 | Dec-26-17 | 45 | Jan-26-18 | 35 |
| Nov-27-17 | 30 | Dec-27-17 | 50 | Jan-27-18 | 15 |
| Nov-28-17 | 20 | Dec-28-17 | 56 | Jan-28-18 | 22 |
| Nov-29-17 | 21 | Dec-29-17 | 53 | Jan-29-18 | 35 |

Division 4-2, page 5

| | | | | | |
|---|---|---|---|---|---|
| Nov-30-17 | 20 | Dec-30-17 | 50 | Jan-30-18 | 40 |
| | | Dec-31-17 | 58 | Jan-31-18 | 35 |
| **Total** | 613 | | 1,056 | | 1,092 |

| **Table 2<br>Estimated Normal Heating Degree Days** | | | | | |
|---|---|---|---|---|---|
| **Date** | **HDD** | **Date** | **HDD** | **Date** | **HDD** |
| Nov-01-17 | 14 | Dec-01-17 | 23 | Jan-01-18 | 52 |
| Nov-02-17 | 10 | Dec-02-17 | 37 | Jan-02-18 | 35 |
| Nov-03-17 | 12 | Dec-03-17 | 42 | Jan-03-18 | 21 |
| Nov-04-17 | 11 | Dec-04-17 | 35 | Jan-04-18 | 25 |
| Nov-05-17 | 16 | Dec-05-17 | 40 | Jan-05-18 | 20 |
| Nov-06-17 | 16 | Dec-06-17 | 36 | Jan-06-18 | 23 |
| Nov-07-17 | 14 | Dec-07-17 | 36 | Jan-07-18 | 43 |
| Nov-08-17 | 13 | Dec-08-17 | 36 | Jan-08-18 | 35 |
| Nov-09-17 | 16 | Dec-09-17 | 39 | Jan-09-18 | 36 |
| Nov-10-17 | 13 | Dec-10-17 | 32 | Jan-10-18 | 26 |
| Nov-11-17 | 12 | Dec-11-17 | 21 | Jan-11-18 | 39 |
| Nov-12-17 | 12 | Dec-12-17 | 31 | Jan-12-18 | 52 |
| Nov-13-17 | 16 | Dec-13-17 | 37 | Jan-13-18 | 36 |
| Nov-14-17 | 15 | Dec-14-17 | 36 | Jan-14-18 | 40 |
| Nov-15-17 | 20 | Dec-15-17 | 31 | Jan-15-18 | 37 |
| Nov-16-17 | 22 | Dec-16-17 | 32 | Jan-16-18 | 28 |
| Nov-17-17 | 17 | Dec-17-17 | 24 | Jan-17-18 | 29 |
| Nov-18-17 | 23 | Dec-18-17 | 31 | Jan-18-18 | 32 |
| Nov-19-17 | 25 | Dec-19-17 | 33 | Jan-19-18 | 63 |
| Nov-20-17 | 25 | Dec-20-17 | 33 | Jan-20-18 | 40 |
| Nov-21-17 | 25 | Dec-21-17 | 36 | Jan-21-18 | 34 |
| Nov-22-17 | 30 | Dec-22-17 | 21 | Jan-22-18 | 45 |
| Nov-23-17 | 32 | Dec-23-17 | 18 | Jan-23-18 | 27 |
| Nov-24-17 | 36 | Dec-24-17 | 19 | Jan-24-18 | 40 |
| Nov-25-17 | 36 | Dec-25-17 | 22 | Jan-25-18 | 21 |

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| | | | | | |
|---|---|---|---|---|---|
| Nov-26-17 | 23 | Dec-26-17 | 31 | Jan-26-18 | 35 |
| Nov-27-17 | 14 | Dec-27-17 | 24 | Jan-27-18 | 40 |
| Nov-28-17 | 17 | Dec-28-17 | 26 | Jan-28-18 | 27 |
| Nov-29-17 | 21 | Dec-29-17 | 25 | Jan-29-18 | 40 |
| Nov-30-17 | 23 | Dec-30-17 | 21 | Jan-30-18 | 42 |
| | | Dec-31-17 | 22 | Jan-31-18 | 39 |
| **Total** | 579 | | 930 | | 1,102 |

Prepared by or under the supervision of:  Nancy G. Culliford

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Division 4-3

Request:

Re: National Grid's January 29, Interim Gas Cost Recovery Filing and the testimony of Witness Leary at page 4, line 20, please document on a monthly basis the referenced escalation in gas prices.

Response:

Please see Attachment DIV 4-3, which compares the monthly per-unit variable cost from the annual Gas Cost Recovery (GCR) filing submitted on October 23, 2017 with the per-unit variable cost from the Interim GCR filing submitted on January 29, 2018. On an annual basis, the per-unit variable cost in the Interim GCR filing is $4.01 per Dktherm or $1.07 higher than the annual variable cost of $2.94 per Dktherm contained in the annual GCR filing.

Prepared by or under the supervision of: Ann E. Leary

Variable Costs Comparison

| | Nov Actual | Dec Actual | Jan Forecast | Feb Forecast | Mar Forecast | Apr Forecast | May Forecast | Jun Forecast | Jul Forecast | Aug Forecast | Sep Forecast | Oct Forecast | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Interim GCR Filing** | | | | | | | | | | | | | |
| (1) Total All Variable Gas Costs * | $8,944,909 | $22,922,438 | $40,745,661 | $15,290,402 | $11,335,821 | $5,367,623 | $3,135,675 | $1,967,716 | $1,569,660 | $1,440,572 | $1,482,780 | $2,802,607 | $117,005,862 |
| (2) Volumes- Dktherm | 2,857,768 | 5,113,414 | 5,709,026 | 4,417,284 | 3,736,115 | 2,175,893 | 1,268,260 | 808,643 | 647,353 | 593,008 | 639,818 | 1,177,517 | 29,144,099 |
| (3) Average Per Unit Cost $/Dktherm | $3.13 | $4.48 | $7.14 | $3.46 | $3.03 | $2.47 | $2.47 | $2.43 | $2.42 | $2.43 | $2.32 | $2.38 | $4.015 |
| **Approved GCR Filing- Revised Filing 10/23/2017** | | | | | | | | | | | | | |
| (4) Total All Variable Gas Costs** | $5,645,914 | $10,998,135 | $17,208,947 | $15,542,321 | $10,715,275 | $5,484,110 | $3,165,666 | $2,024,140 | $1,607,551 | $1,477,419 | $1,545,483 | $2,914,712 | $78,329,672 |
| (5) Volumes- Dktherm | 2,286,401 | 3,945,192 | 4,943,244 | 4,417,284 | 3,736,115 | 2,175,893 | 1,268,260 | 808,643 | 647,353 | 593,008 | 639,818 | 1,177,517 | 26,638,728 |
| (6) Average Per Unit Cost $/Dktherm | $2.47 | $2.79 | $3.48 | $3.52 | $2.87 | $2.52 | $2.50 | $2.50 | $2.48 | $2.49 | $2.42 | $2.48 | $2.940 |

* Interim GCR Filing Attachment AEL-2 pg 1 line (20)

**October 23, 2107 Revised GCR filing Attachment AEL-1 Revised Pg 3 line 1

Division 4-5

Request:

Re: National Grid's January 29, Interim Gas Cost Recovery Filing and the testimony of Witness Leary at page 5, lines 8-11, please:

a. Explain why it would not be appropriate to assume that increases sendout for the first 16 days of January 2018 will not be offset by lower than expected sendout volumes in subsequent portion of the current winter period, and provide the analyses upon which the Company relies to adjust its sendout expectations.

b. Provide the workpapers, data, analyses and studies upon which the Company relies to assess that an early winter cold snap, such as that experienced in late December 2017 and the first part of January 2018 will necessarily result in greater total gas use for the entire winter season.

Response:

a. The Company prepared its Interim Gas Cost Recovery (GCR) filing in mid-January 2018, and the Company was aware that it had purchased incremental volumes due to colder than normal weather during the first half of January. Therefore, the Company decided to include those incremental purchases in the estimated gas costs for January 2018, as January gas costs were based on normal sendout volumes. Similarly, the Company always assumes normal weather in its sales forecast, and therefore has no basis to assume that colder than normal weather in any particular month would be followed by warmer than normal weather. To illustrate, in the Interim GCR Filing, the Company projected a January 2018 sendout of 5,709,026 dekatherms. The actual sendout for January 2018 was 5,717,913 dekatherms, resulting in a variance of only 8,887 dekatherms, or 0.1 percent

b. See the response to part (a) above. The Company bases the monthly sales and sendout on normal weather. The Company does not adjust its monthly forecast so that the annual forecast (which is comprised of both actual and forecasted data) will reflect a normal forecast over the GCR year.

Prepared by or under the supervision of: Ann E. Leary

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Division 4-6

Request:

Re: National Grid's January 29, Interim Gas Cost Recovery Filing and the testimony of Witness Leary at page 5, lines 11-12. The referenced sentence discusses the Company's use of the increase in "January sendout volume" to adjust "January Sales (billing) volume." Please document and explain the manner in which the Company determine the portion of increased sendout that was not attributable to increased firm gas sales service requirements.

Response:

As shown in Attachment AEL-5, the Company adjusted the billing volumes for January 2018 by 2,505,371 dekatherms (see Line 22 column (b)). This increase included the increase in January's sendout of 765,782 dekatherms (see Line (12) column (c)) resulting from incremental gas purchases during the first half of January. As indicated in the Company's response to Division 4-5, the actual sendout for January 2018 was 5,717,913 dekatherms, resulting in a difference of only 8,887 dekatherms, or 0.1 percent. However, as indicated in Company's response to Division 4-14, the actual billing sales for January 2018 were 5.7 million dekatherms, which were approximately 1.4 million therms higher than the Company's original forecast, but approximately 1.1 million dekatherms less than the revised forecast contained in the Interim Gas Cost Recovery (GCR) filing. The Company anticipates that due to billing lag, additional sales will be recognized in the month of February 2018. The Company did not adjust the February 2018 sales forecast in the Interim GCR filing, and recognized the incremental sales volumes only in January 2018.

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Division 4-8

Request:

Re: National Grid's January 29, Interim Gas Cost Recovery Filing and the testimony of Witness Leary at page 7, lines 6-9. Please:

a. Verify Witness Leary's reference to 24% bill impact that would result from recovery of the full amount of the projected deferral is for an "average" residential heating customer if recovered over the period from March 2018 through October 2018.

b. Provide the range of impacts that would result for customers in each firm service rate class based on analyses comparable to those presented in Attachment AEL-4.

c. Provide any input the Company would offer to the Commission regarding assessment of the acceptability of the proposed bill increases by rate class, addressing all rate classes, not just the residential heating class.

Response

a. Yes, an "average" residential heating customer using 396 therms during the period March 2018 through October 2018 would experience a 24 percent total bill increase if the full amount of the projected deferral of $34.4 million is recovered over the period March 2018 through October 2018.

b. Please see Attachment DIV 4-8. Page 1, line (4) of Attachment DIV 4-8 presents the surcharge needed to eliminate the estimated deferral by October 31, 2018. Page 2 presents the estimated $34.4 million deferral by the end of October 2018 without a Gas Cost Recovery (GCR) factor change. Page 3 presents the estimated deferral by the end of October 2018 based on the surcharge presented on page 1, line (4). Finally, pages 4-8 present the bill impacts resulting from the surcharge presented on page 1, line (4).

c. As indicated in Ms. Leary's testimony beginning on page 6, line 16, through page 7, line 18, the Company has proposed revised GCR factors intended to mitigate the bill impacts associated with the recovery of the projected deferral. The Company believes this proposal reaches a reasonable and acceptable balance between bill increases resulting from the rate change proposed in this filing compared to the amount of unrecovered gas costs of which the Company is proposing to delay recovery as part of its 2018-19 GCR factors. The Company's proposal is based on limiting the total bill increase to the average residential heating customer to less than 16 percent (15.6 percent is the resulting increase based on the Company's proposal), and delaying the recovery of approximately

$11.6 million of the $34.4 million deferred balance to the 2018-19 GCR factors. This bill impact is consistent with the bill increase experienced by customers in 2014 when the Company faced a similar situation with cold weather resulting in increased gas costs and a significant estimated deferral by the end of the then-current GCR year.

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
Factors Effective March 1, 2018
Recovery of 100% of Projected Deferral Between March 1, 2018 and October 31, 2018

| | | Source | | | | FT-2 |
|---|---|---|---|---|---|---|
| | Description | Reference | Line # | High Load[1] | Low Load[2] | Mkter |
| | (a) | (b) | (c) | (d) | (e) | (f) |
| (1) | Fixed Cost Factor - $/dktherm | Approved Factor* | | $1.1342 | $1.5517 | |
| (2) | Variable Cost Factor -$/dktherm | Approved Factor | | $3.5711 | $3.5711 | |
| (3) | Total Gas Cost Recovery Charge- $/dktherm | Approved Factor | | $4.7053 | $5.1228 | |
| (4) | Surcharge Factor | Manual Input | | $3.4000 | $3.4000 | |
| (5) | Total Revised Gas Cost Recovery Charge | Line (3) +Line (4) | | $8.1053 | $8.5228 | |
| (6) | Uncollectible % | Docket 4323 | | 3.18% | 3.18% | |
| (7) | Total GCR Charge adjusted for Uncollectibles- $/dkdtherm | (5) / [1 - (6)] | | $8.3715 | $8.8027 | |
| (8) | **GCR Charge on a per therm basis** | (7) / 10 | | **$0.8371** | **$0.8802** | |
| (9) | Current rate effective 11/01/17* - $/therm | | | $0.4859 | $0.5291 | |
| (10) | Increase- $/therm | (8) - (9) | | $0.3512 | $0.3511 | |
| (11) | Percent Increase | (10) / (9) | | 72.3% | 66.4% | |

* GCR rates approved with the Rebuttal GCR filing per Docket No. 4719 filed on October 23, 2017
[1] Includes: Residential Non Heating, Large High Load and Extra Large High Load
[2] Includes: Residential Heating, Small C&I, Medium C&I, Large Low Load, Extra Large Low Load

National Grid
Rhode Island - Gas

Schedule 1
Page 1 of 1

Deferred Gas Cost Balances

| | Description | Reference | Nov Actual | Dec Actual | Jan Forecast | Feb Forecast | Mar Forecast | Apr Forecast | May Forecast | Jun Forecast | Jul Forecast | Aug Forecast | Sep Forecast | Oct Forecast | Nov-Oct |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (1) | # of Days in Month | | 30 | 31 | 31 | 28 | 31 | 30 | 31 | 30 | 31 | 31 | 30 | 31 | 365 |
| | | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) | (m) |
| (2) | I. Fixed Cost Deferred | | | | | | | | | | | | | | |
| (3) | Beginning Under/(Over) Recovery | | $1,106,719 | $2,186,800 | $518,946 | ($5,184,717) | ($7,502,087) | ($8,961,811) | ########### | ($9,323,349) | ($7,474,277) | ($5,189,363) | ($2,795,395) | ($502,619) | $1,106,719 |
| (4) | Supply Fixed Costs (net of cap rel) | Sch. 2, line (31) | $4,342,453 | $4,432,787 | $6,108,532 | $6,106,396 | $6,108,532 | $4,531,059 | $4,531,771 | $4,531,059 | $4,531,771 | $4,531,771 | $4,530,656 | $4,531,368 | $58,818,154 |
| (5) | System Pressure to DAC | Dkt 4719 | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($3,153,600) |
| (6) | Supply Related LNG O & M | Dkt 4323 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $575,581 |
| (7) | NGPMP Credits | | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($10,900,000) |
| (8) | Working Capital | Sch. 4, line (15) | $23,513 | $24,034 | $29,296 | $29,286 | $29,296 | $21,391 | $21,394 | $21,391 | $21,394 | $21,394 | $21,389 | $21,392 | $285,170 |
| (9) | Total Supply Fixed Costs | Sum[(4):(8)] | $3,242,798 | $3,333,652 | $5,014,660 | $5,012,513 | $5,014,660 | $3,429,281 | $3,429,997 | $3,429,281 | $3,429,997 | $3,429,997 | $3,428,876 | $3,429,592 | $45,625,304 |
| (10) | Supply Fixed - Revenue | Sch. 3, line 13 | $2,201,823 | $5,004,233 | $10,713,375 | $7,317,730 | $6,456,923 | $4,602,813 | $2,577,727 | $1,562,969 | $1,131,653 | $1,027,561 | $1,132,715 | $1,373,589 | $45,103,110 |
| (11) | Monthly Under/(Over) Recovery | (9) - (10) | $1,040,975 | ($1,670,580) | ($5,698,715) | ($2,305,217) | ($1,442,263) | ($1,173,532) | $852,270 | $1,866,312 | $2,298,344 | $2,402,436 | $2,296,161 | $2,056,003 | $522,195 |
| (12) | Prelim. Ending Under/(Over) Recovery | (3) + (11) | $2,147,693 | $516,220 | ($5,179,769) | ($7,489,934) | ($8,944,350) | ########### | ($9,302,692) | ($7,457,037) | ($5,175,933) | ($2,786,927) | ($499,234) | $1,553,384 | $1,628,914 |
| (13) | Month's Average Balance | [(3) + (12)] / 2 | $1,627,206 | $1,351,510 | ($2,330,411) | ($6,337,325) | ($8,223,219) | ($9,548,576) | ($9,728,827) | ($8,390,193) | ($6,325,105) | ($3,988,145) | ($1,647,315) | $525,383 | |
| (14) | Interest Rate (BOA Prime minus 200 bps) | | 2.25% | 2.38% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | |
| (15) | Interest Applied | [(13) x (14)] / 365 x (1) | $3,009 | $2,726 | ($4,948) | ($12,154) | ($17,460) | ($19,620) | ($20,657) | ($17,240) | ($13,430) | ($8,468) | ($3,385) | $1,116 | ($110,512) |
| (16) | Marketer Reconcilation | Dkt 4719, AEL-7, Line (50) | $36,098 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $36,098 |
| (17) | Fixed Ending Under/(Over) Recovery | (12) + (15) + (16) | $2,186,800 | $518,946 | ($5,184,717) | ($7,502,087) | ($8,961,811) | ########### | ($9,323,349) | ($7,474,277) | ($5,189,363) | ($2,795,395) | ($502,619) | $1,554,499 | $1,554,499 |
| (18) | II. Variable Cost Deferred | | | | | | | | | | | | | | |
| (19) | Beginning Under/(Over) Recovery | | $13,703,849 | $17,445,473 | $29,443,058 | $46,180,590 | $45,191,882 | $42,184,163 | $37,455,008 | $35,171,386 | $34,062,004 | $33,566,278 | $33,195,191 | $32,634,373 | $13,703,849 |
| (20) | Variable Supply Costs | Sch. 2, line (77) | $8,944,909 | $22,922,438 | $40,745,661 | $15,290,402 | $11,335,821 | $5,367,623 | $3,135,675 | $1,967,716 | $1,569,660 | $1,440,572 | $1,482,780 | $2,802,607 | $117,005,862 |
| (21) | Supply Related LNG to DAC | Dkt 4339 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| (22) | Supply Related LNG O & M | Dkt 4323 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $572,694 |
| (23) | Inventory Financing - LNG | Sch. 5, line (22) | $32,062 | $21,879 | $8,917 | $3,681 | $3,129 | $7,665 | $12,330 | $16,871 | $18,512 | $19,401 | $23,928 | $24,809 | $193,185 |
| (24) | Inventory Financing - UG | Sch. 5, line (12) | $80,793 | $69,463 | $43,426 | $30,391 | $18,503 | $18,804 | $27,475 | $35,906 | $41,657 | $49,189 | $61,111 | $71,358 | $548,077 |
| (25) | Working Capital | Sch. 4, line (30) | $51,554 | $132,114 | $204,200 | $76,629 | $56,810 | $26,900 | $15,715 | $9,861 | $7,866 | $7,220 | $7,431 | $14,045 | $610,345 |
| (26) | Total Supply Variable Costs | Sum[(20):(25)] | $9,157,042 | $23,193,618 | $41,049,928 | $15,448,828 | $11,461,987 | $5,468,717 | $3,238,919 | $2,078,078 | $1,685,420 | $1,564,106 | $1,622,975 | $2,960,545 | $118,930,162 |
| (27) | Supply Variable - Revenue | Sch. 3, line (30) | $5,444,194 | $11,243,274 | $24,392,597 | $16,525,069 | $14,562,370 | $10,279,609 | $5,599,562 | $3,258,518 | $2,252,867 | $2,005,995 | $2,251,356 | $2,812,684 | $100,628,096 |
| (28) | Monthly Under/(Over) Recovery | (26) - (27) | $3,712,848 | $11,950,343 | $16,657,331 | ($1,076,241) | ($3,100,383) | ($4,810,892) | ($2,360,643) | ($1,180,440) | ($567,447) | ($441,889) | ($628,381) | $147,861 | $18,302,067 |
| (29) | Prelim. Ending Under/(Over) Recovery | (19) + (28) | $17,416,697 | $29,395,816 | $46,100,390 | $45,104,349 | $42,091,499 | $37,373,271 | $35,094,365 | $33,990,947 | $33,494,557 | $33,124,389 | $32,566,810 | $32,782,234 | $32,005,916 |
| (30) | Month's Average Balance | [(19) + (29)] / 2 | $15,560,273 | $23,420,644 | $37,771,724 | $45,642,469 | $43,641,691 | $39,778,717 | $36,274,686 | $34,581,166 | $33,778,280 | $33,345,333 | $32,881,000 | $32,708,304 | |
| (31) | Interest Rate (BOA Prime minus 200 bps) | | 2.25% | 2.38% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | |
| (32) | Interest Applied | [(30) x (31)] / 365 x (1) | $28,776 | $47,242 | $80,200 | $87,534 | $92,664 | $81,737 | $77,022 | $71,057 | $71,721 | $70,802 | $67,564 | $69,449 | $845,767 |
| (33) | Gas Procurement Incentive/(penalty) | | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| (34) | Variable Ending Under/(Over) Recovery | (29) + (32) + (33) | $17,445,473 | $29,443,058 | $46,180,590 | $45,191,882 | $42,184,163 | $37,455,008 | $35,171,386 | $34,062,004 | $33,566,278 | $33,195,191 | $32,634,373 | $32,851,683 | $32,851,683 |
| (35) | **GCR Deferred Summary** | | | | | | | | | | | | | | |
| (36) | Beginning Under/(Over) Recovery | (3) + (19) | $14,810,568 | $19,632,273 | $29,962,005 | $40,995,873 | $37,689,795 | $33,222,353 | $27,300,045 | $25,848,037 | $26,587,727 | $28,376,915 | $30,399,796 | $32,131,754 | $14,810,568 |
| (37) | Gas Costs | Sum[(4):(6),(16),(20):(22)] | $13,156,349 | $27,188,114 | $46,687,083 | $21,229,687 | $17,277,242 | $9,731,571 | $7,500,335 | $6,331,664 | $5,934,321 | $5,805,232 | $5,846,325 | $7,166,864 | $173,854,788 |
| (38) | Inventory Finance | (23) + (24) | $112,855 | $91,342 | $52,343 | $34,072 | $21,632 | $26,469 | $39,805 | $52,777 | $60,169 | $68,590 | $85,040 | $96,167 | $741,261 |
| (39) | Working Capital | (8) + (25) | $75,067 | $156,147 | $233,496 | $105,914 | $86,106 | $48,291 | $37,109 | $31,252 | $29,261 | $28,614 | $28,820 | $35,438 | $895,514 |
| (40) | NGPMP Credits | (7) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($10,900,000) |
| (41) | Total Costs | Sum[(37):(40)] | $12,435,937 | $26,527,270 | $46,064,589 | $20,461,341 | $16,476,647 | $8,897,998 | $6,668,916 | $5,507,360 | $5,115,417 | $4,994,103 | $5,051,851 | $6,390,136 | $164,591,565 |
| (42) | Revenue | (10) + (27) | $7,646,017 | $16,247,507 | $35,105,972 | $23,842,799 | $21,019,293 | $14,882,422 | $8,177,289 | $4,821,487 | $3,384,520 | $3,033,556 | $3,384,071 | $4,186,273 | $145,731,205 |
| (43) | Monthly Under/(Over) Recovery | (41) - (42) | $4,789,920 | $10,279,763 | $10,958,617 | ($3,381,458) | ($4,542,646) | ($5,984,424) | ($1,508,373) | $685,873 | $1,730,897 | $1,960,547 | $1,667,780 | $2,203,863 | $18,860,359 |
| (44) | Prelim. Ending Under/(Over) Recovery | (36) + (43) | $19,600,488 | $29,912,036 | $40,920,621 | $37,614,415 | $33,147,149 | $27,237,928 | $25,791,672 | $26,533,909 | $28,318,624 | $30,337,462 | $32,067,576 | $34,335,618 | |
| (45) | Month's Average Balance | [(36) + (44)] / 2 | $17,205,528 | $24,772,154 | $35,441,313 | $39,305,144 | $35,418,472 | $30,230,141 | $26,545,859 | $26,190,973 | $27,453,175 | $29,357,188 | $31,233,686 | $33,233,686 | |
| (46) | Interest Rate (BOA Prime minus 200 bps) | | 2.25% | 2.38% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | |
| (47) | Interest Applied | (15) + (32) | $31,785 | $49,968 | $75,252 | $75,380 | $75,204 | $62,117 | $56,364 | $53,817 | $58,291 | $62,334 | $64,179 | $70,565 | $735,256 |
| (48) | Gas Purchase Plan Incentives/(Penalties) | (33) | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| (49) | **Ending Under/(Over) Recovery W/ Interest** | (44) + (47) + (48) | $19,632,273 | $29,962,005 | $40,995,873 | $37,689,795 | $33,222,353 | $27,300,045 | $25,848,037 | $26,587,727 | $28,376,915 | $30,399,796 | $32,131,754 | $\boxed{\$34,406,182}$ | $34,406,182 |

Deferred Gas Cost Balances

| | Description | Reference | Nov Actual | Dec Actual | Jan Forecast | Feb Forecast | Mar Forecast | Apr Forecast | May Forecast | Jun Forecast | Jul Forecast | Aug Forecast | Sep Forecast | Oct Forecast | Nov-Oct |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (1) | # of Days in Month | | 30 | 31 | 31 | 28 | 31 | 30 | 31 | 30 | 31 | 31 | 30 | 31 | 365 |
| | | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) | (m) |
| (2) | I. Fixed Cost Deferred | | | | | | | | | | | | | | |
| (3) | Beginning Under/(Over) Recovery | | $1,106,719 | $2,186,800 | $518,946 | ($5,184,717) | ($7,502,087) | ($8,961,811) | ($10,154,962) | ($9,323,349) | ($7,474,277) | ($5,189,363) | ($2,795,395) | ($502,619) | $1,106,719 |
| (4) | Supply Fixed Costs (net of cap rel) | Sch. 2, line (31) | $4,342,453 | $4,432,787 | $6,108,532 | $6,106,396 | $6,108,532 | $4,531,059 | $4,531,771 | $4,531,059 | $4,531,771 | $4,531,771 | $4,530,656 | $4,531,368 | $58,818,154 |
| (5) | System Pressure to DAC | Dkt 4719 | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($3,153,600) |
| (6) | Supply Related LNG O & M | Dkt 4323 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $575,581 |
| (7) | NGPMP Credits | | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($10,900,000) |
| (8) | Working Capital | Sch. 4, line (15) | $23,513 | $24,034 | $29,296 | $29,286 | $29,296 | $21,391 | $21,394 | $21,391 | $21,394 | $21,394 | $21,389 | $21,392 | $285,170 |
| (9) | Total Supply Fixed Costs | Sum[(4):(8)] | $3,242,798 | $3,333,652 | $5,014,660 | $5,012,513 | $5,014,660 | $3,429,281 | $3,429,997 | $3,429,281 | $3,429,997 | $3,429,997 | $3,428,876 | $3,429,592 | $45,625,304 |
| (10) | Supply Fixed - Revenue | Sch. 3, line 13 | $2,201,823 | $5,004,233 | $10,713,375 | $7,317,730 | $6,456,923 | $4,602,813 | $2,577,727 | $1,562,969 | $1,131,653 | $1,027,561 | $1,132,715 | $1,373,589 | $45,103,110 |
| (11) | Monthly Under/(Over) Recovery | (9) - (10) | $1,040,975 | ($1,670,580) | ($5,698,715) | ($2,305,217) | ($1,442,263) | ($1,173,532) | $852,270 | $1,866,312 | $2,298,344 | $2,402,436 | $2,296,161 | $2,056,003 | $522,195 |
| (12) | Prelim. Ending Under/(Over) Recovery | (3) + (11) | $2,147,693 | $516,220 | ($5,179,769) | ($7,489,934) | ($8,944,350) | ($10,135,342) | ($9,302,692) | ($7,457,037) | ($5,175,933) | ($2,786,927) | ($499,234) | $1,553,384 | $1,628,914 |
| (13) | Month's Average Balance | [(3) + (12)] / 2 | $1,627,206 | $1,351,510 | ($2,330,411) | ($6,337,325) | ($8,223,219) | ($9,548,576) | ($9,728,827) | ($8,390,193) | ($6,325,105) | ($3,988,145) | ($1,647,315) | $525,383 | |
| (14) | Interest Rate (BOA Prime minus 200 bps) | | 2.25% | 2.38% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | |
| (15) | Interest Applied | [(13) x (14)] / 365 x (1) | $3,009 | $2,726 | ($4,948) | ($12,154) | ($17,460) | ($19,620) | ($20,657) | ($17,240) | ($13,430) | ($8,468) | ($3,385) | $1,116 | ($110,512) |
| (16) | Marketer Reconcilation | Dkt 4719, AEL-7, Line (50) | $36,098 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $36,098 |
| (17) | Fixed Ending Under/(Over) Recovery | (12) + (15) + (16) | $2,186,800 | $518,946 | ($5,184,717) | ($7,502,087) | ($8,961,811) | ($10,154,962) | ($9,323,349) | ($7,474,277) | ($5,189,363) | ($2,795,395) | ($502,619) | $1,554,499 | $1,554,499 |
| (18) | II. Variable Cost Deferred | | | | | | | | | | | | | | |
| (19) | Beginning Under/(Over) Recovery | | $13,703,849 | $17,445,473 | $29,443,058 | $46,180,590 | $45,191,882 | $35,244,477 | $20,703,919 | $13,047,796 | $8,787,373 | $6,090,778 | $3,749,442 | $982,429 | $13,703,849 |
| (20) | Variable Supply Costs | Sch. 2, line (77) | $8,944,909 | $22,922,438 | $40,745,661 | $15,290,402 | $11,335,821 | $5,367,623 | $3,135,675 | $1,967,716 | $1,569,660 | $1,440,572 | $1,482,780 | $2,802,607 | $117,005,862 |
| (21) | Supply Related LNG to DAC | Dkt 4339 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| (22) | Supply Related LNG O & M | Dkt 4323 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $572,694 |
| (23) | Inventory Financing - LNG | Sch. 5, line (22) | $32,062 | $21,879 | $8,917 | $3,681 | $3,129 | $7,665 | $12,330 | $16,871 | $18,512 | $19,401 | $23,928 | $24,809 | $193,185 |
| (24) | Inventory Financing - UG | Sch. 5, line (12) | $80,793 | $69,463 | $43,426 | $30,391 | $18,503 | $18,804 | $27,475 | $35,906 | $41,657 | $49,189 | $61,111 | $71,358 | $548,077 |
| (25) | Working Capital | Sch. 4, line (30) | $51,554 | $132,114 | $204,200 | $76,629 | $56,810 | $26,900 | $15,715 | $9,861 | $7,866 | $7,220 | $7,431 | $14,045 | $610,345 |
| (26) | Total Supply Variable Costs | Sum[(20):(25)] | $9,157,042 | $23,193,618 | $41,049,928 | $15,448,828 | $11,461,987 | $5,468,717 | $3,238,919 | $2,078,078 | $1,685,420 | $1,564,106 | $1,622,975 | $2,960,545 | $118,930,162 |
| (27) | Supply Variable - Revenue | Sch. 3, line (30) | $5,444,194 | $11,243,275 | $24,392,597 | $16,525,069 | $21,494,696 | $20,066,697 | $10,930,836 | $6,360,912 | $4,397,793 | $3,915,878 | $4,394,844 | $5,490,606 | $134,657,397 |
| (28) | Monthly Under/(Over) Recovery | (26) - (27) | $3,712,848 | $11,950,343 | $16,657,331 | ($1,076,241) | ########## | ($14,597,980) | ($7,691,917) | ($4,282,834) | ($2,712,373) | ($2,351,772) | ($2,771,869) | ($2,530,061) | ($15,727,235) |
| (29) | Prelim. Ending Under/(Over) Recovery | (19) + (28) | $17,416,697 | $29,395,816 | $46,100,389 | $45,104,348 | $35,159,173 | $20,646,496 | $13,012,002 | $8,764,962 | $6,075,000 | $3,739,006 | $977,573 | ($1,547,632) | ($2,023,386) |
| (30) | Month's Average Balance | [(19) + (29)] / 2 | $15,560,273 | $23,420,644 | $37,771,724 | $45,642,469 | $40,175,527 | $27,945,487 | $16,857,960 | $10,906,379 | $7,431,186 | $4,914,892 | $2,363,507 | ($282,601) | |
| (31) | Interest Rate (BOA Prime minus 200 bps) | | 2.25% | 2.38% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | |
| (32) | Interest Applied | [(30) x (31)] / 365 x (1) | $28,776 | $47,242 | $80,200 | $87,534 | $85,304 | $57,422 | $35,794 | $22,410 | $15,779 | $10,436 | $4,857 | ($600) | $475,154 |
| (33) | Gas Procurement Incentive/(penalty) | | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| (34) | Variable Ending Under/(Over) Recovery | (29) + (32) + (33) | $17,445,473 | $29,443,058 | $46,180,590 | $45,191,882 | $35,244,477 | $20,703,919 | $13,047,796 | $8,787,373 | $6,090,778 | $3,749,442 | $982,429 | ($1,548,232) | ($1,548,232) |
| (35) | **GCR Deferred Summary** | | | | | | | | | | | | | | |
| (36) | Beginning Under/(Over) Recovery | (3) + (19) | $14,810,568 | $19,632,273 | $29,962,004 | $40,995,873 | $37,689,794 | $26,282,666 | $10,548,956 | $3,724,446 | $1,313,095 | $901,415 | $954,047 | $479,811 | $14,810,568 |
| (37) | Gas Costs | Sum[(4):(6),(16),(20):(22)] | $13,156,349 | $27,188,114 | $46,687,083 | $21,229,687 | $17,277,242 | $9,731,571 | $7,500,335 | $6,331,664 | $5,934,321 | $5,805,232 | $5,846,325 | $7,166,864 | $173,854,788 |
| (38) | Inventory Finance | (23) + (24) | $112,855 | $91,342 | $52,343 | $34,072 | $21,632 | $26,469 | $39,805 | $52,777 | $60,169 | $68,590 | $85,040 | $96,167 | $741,261 |
| (39) | Working Capital | (8) + (25) | $75,067 | $156,147 | $233,496 | $105,914 | $86,106 | $48,291 | $37,109 | $31,252 | $29,261 | $28,614 | $28,820 | $35,438 | $895,514 |
| (40) | NGPMP Credits | (7) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($10,900,000) |
| (41) | Total Costs | Sum[(37):(40)] | $12,435,937 | $26,527,270 | $46,064,589 | $20,461,341 | $16,476,647 | $8,897,998 | $6,668,916 | $5,507,360 | $5,115,417 | $4,994,103 | $5,051,851 | $6,390,136 | $164,591,565 |
| (42) | Revenue | (10) + (27) | $7,646,018 | $16,247,507 | $35,105,972 | $23,842,799 | $27,951,619 | $24,669,510 | $13,508,563 | $7,923,881 | $5,529,446 | $4,943,439 | $5,527,559 | $6,864,195 | $179,760,507 |
| (43) | Monthly Under/(Over) Recovery | (41) - (42) | $4,789,920 | $10,279,763 | $10,958,617 | ($3,381,458) | ########## | ($15,771,512) | ($6,839,647) | ($2,416,521) | ($414,029) | $50,664 | ($475,708) | ($474,059) | ($15,168,942) |
| (44) | Prelim. Ending Under/(Over) Recovery | (36) + (43) | $19,600,488 | $29,912,035 | $40,920,621 | $37,614,415 | $26,214,822 | $10,511,154 | $3,709,309 | $1,307,925 | $899,066 | $952,079 | $478,339 | $5,752 | |
| (45) | Month's Average Balance | [(36) + (44)] / 2 | $17,205,528 | $24,772,154 | $35,441,312 | $39,305,144 | $31,952,308 | $18,396,910 | $7,129,133 | $2,516,186 | $1,106,081 | $926,747 | $716,193 | $242,781 | |
| (46) | Interest Rate (BOA Prime minus 200 bps) | | 2.25% | 2.38% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | |
| (47) | Interest Applied | (15) + (32) | $31,785 | $49,968 | $75,252 | $75,380 | $67,844 | $37,802 | $15,137 | $5,170 | $2,349 | $1,968 | $1,472 | $515 | $364,642 |
| (48) | Gas Purchase Plan Incentives/(Penalties) | (33) | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| (49) | **Ending Under/(Over) Recovery W/ Interest** | (44) + (47) + (48) | $19,632,273 | $29,962,004 | $40,995,873 | $37,689,794 | $26,282,666 | $10,548,956 | $3,724,446 | $1,313,095 | $901,415 | $954,047 | $479,811 | $\boxed{\$6,268}$ | $6,268 |

National Grid - RI Gas
Interim Gas Cost Recovery Filing
Bill Impact Analysis with Various Levels of Consumption:

**Residential Heating:**

| | | | Mar- Oct | Mar- Oct | | | Difference due to: | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (1) | | Annual | Proposed | Current | Mar- Oct | | | | | | | | |
| (2) | | Consumption (Therms) | Rates | Rates | Difference | % Chg | Base Rates | GCR | DAC | | EE | LIHEAP | GET |
| (3) | | | | | | | | | Base DAC | ISR | | | |
| (4) | | | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- |
| (5) | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
| (6) | | | | | | | | | | | | | |
| (7) | | 258 | $532.72 | $439.35 | $93.37 | 21.3% | $0.00 | $90.57 | $0.00 | $0.00 | $0.00 | $0.00 | $2.80 |
| (8) | | 285 | $576.11 | $472.98 | $103.13 | 21.8% | $0.00 | $100.04 | $0.00 | $0.00 | $0.00 | $0.00 | $3.09 |
| (9) | | 313 | $620.98 | $507.70 | $113.29 | 22.3% | $0.00 | $109.89 | $0.00 | $0.00 | $0.00 | $0.00 | $3.40 |
| (10) | | 340 | $664.33 | $541.28 | $123.05 | 22.7% | $0.00 | $119.36 | $0.00 | $0.00 | $0.00 | $0.00 | $3.69 |
| (11) | | 369 | $710.17 | $576.60 | $133.57 | 23.2% | $0.00 | $129.56 | $0.00 | $0.00 | $0.00 | $0.00 | $4.01 |
| (12) | **Average Customer** | **396** | **$751.88** | **$608.52** | **$143.36** | **23.6%** | $0.00 | $139.06 | $0.00 | $0.00 | $0.00 | $0.00 | $4.30 |
| (13) | | 422 | $791.71 | $638.96 | $152.74 | 23.9% | $0.00 | $148.16 | $0.00 | $0.00 | $0.00 | $0.00 | $4.58 |
| (14) | | 452 | $837.74 | $674.16 | $163.59 | 24.3% | $0.00 | $158.68 | $0.00 | $0.00 | $0.00 | $0.00 | $4.91 |
| (15) | | 479 | $879.05 | $705.68 | $173.37 | 24.6% | $0.00 | $168.17 | $0.00 | $0.00 | $0.00 | $0.00 | $5.20 |
| (16) | | 505 | $918.80 | $736.02 | $182.78 | 24.8% | $0.00 | $177.30 | $0.00 | $0.00 | $0.00 | $0.00 | $5.48 |
| (17) | | 537 | $967.07 | $772.67 | $194.40 | 25.2% | $0.00 | $188.57 | $0.00 | $0.00 | $0.00 | $0.00 | $5.83 |

**Residential Heating Low Income:**

| | | | Mar- Oct | Mar- Oct | | | Difference due to: | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (18) | | Annual | Proposed | Current | Mar- Oct | | | | | | | | |
| (19) | | Consumption (Therms) | Rates | Rates | Difference | % Chg | Base Rates | GCR | DAC | | EE | LIHEAP | GET |
| (20) | | | | | | | | | Base DAC | ISR | | | |
| (21) | | | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- |
| (22) | | 258 | $509.65 | $416.28 | $93.37 | 22.4% | $0.00 | $90.57 | $0.00 | $0.00 | $0.00 | $0.00 | $2.80 |
| (23) | | 285 | $551.79 | $448.65 | $103.13 | 23.0% | $0.00 | $100.04 | $0.00 | $0.00 | $0.00 | $0.00 | $3.09 |
| (24) | | 313 | $595.38 | $482.09 | $113.29 | 23.5% | $0.00 | $109.89 | $0.00 | $0.00 | $0.00 | $0.00 | $3.40 |
| (25) | | 340 | $637.48 | $514.43 | $123.05 | 23.9% | $0.00 | $119.36 | $0.00 | $0.00 | $0.00 | $0.00 | $3.69 |
| (26) | | 369 | $682.05 | $548.49 | $133.57 | 24.4% | $0.00 | $129.56 | $0.00 | $0.00 | $0.00 | $0.00 | $4.01 |
| (27) | **Average Customer** | **396** | **$722.69** | **$579.32** | **$143.36** | **24.7%** | $0.00 | $139.06 | $0.00 | $0.00 | $0.00 | $0.00 | $4.30 |
| (28) | | 422 | $761.51 | $608.76 | $152.74 | 25.1% | $0.00 | $148.16 | $0.00 | $0.00 | $0.00 | $0.00 | $4.58 |
| (29) | | 452 | $806.37 | $642.79 | $163.59 | 25.4% | $0.00 | $158.68 | $0.00 | $0.00 | $0.00 | $0.00 | $4.91 |
| (30) | | 479 | $846.64 | $673.27 | $173.37 | 25.8% | $0.00 | $168.17 | $0.00 | $0.00 | $0.00 | $0.00 | $5.20 |
| (31) | | 505 | $885.39 | $702.61 | $182.78 | 26.0% | $0.00 | $177.30 | $0.00 | $0.00 | $0.00 | $0.00 | $5.48 |
| (32) | | 537 | $932.50 | $738.10 | $194.40 | 26.3% | $0.00 | $188.57 | $0.00 | $0.00 | $0.00 | $0.00 | $5.83 |

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National Grid - RI Gas
Interim Gas Cost Recovery Filing
Bill Impact Analysis with Various Levels of Consumption:

**Residential Non-Heating:**

| Line | | Annual Consumption (Therms) | Mar- Oct Proposed Rates | Mar- Oct Current Rates | Mar- Oct Difference | % Chg | Difference due to: Base Rates | GCR | DAC: Base DAC | DAC: ISR | EE | LIHEAP | GET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (37) | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
| (38) | | | | | | | | | | | | | |
| (39) | | 77 | $241.03 | $213.17 | $27.87 | 13.1% | $0.00 | $27.03 | $0.00 | $0.00 | $0.00 | $0.00 | $0.84 |
| (40) | | 86 | $255.90 | $224.76 | $31.13 | 13.9% | $0.00 | $30.20 | $0.00 | $0.00 | $0.00 | $0.00 | $0.93 |
| (41) | | 95 | $270.77 | $236.38 | $34.39 | 14.5% | $0.00 | $33.36 | $0.00 | $0.00 | $0.00 | $0.00 | $1.03 |
| (42) | | 102 | $282.31 | $245.37 | $36.94 | 15.1% | $0.00 | $35.83 | $0.00 | $0.00 | $0.00 | $0.00 | $1.11 |
| (43) | | 109 | $293.86 | $254.39 | $39.47 | 15.5% | $0.00 | $38.29 | $0.00 | $0.00 | $0.00 | $0.00 | $1.18 |
| (44) | **Average Customer** | 119 | **$309.89** | **$266.89** | **$43.00** | **16.1%** | $0.00 | $41.71 | $0.00 | $0.00 | $0.00 | $0.00 | $1.29 |
| (45) | | 126 | $321.94 | $276.31 | $45.63 | 16.5% | $0.00 | $44.26 | $0.00 | $0.00 | $0.00 | $0.00 | $1.37 |
| (46) | | 135 | $336.78 | $287.90 | $48.89 | 17.0% | $0.00 | $47.42 | $0.00 | $0.00 | $0.00 | $0.00 | $1.47 |
| (47) | | 143 | $350.01 | $298.24 | $51.77 | 17.4% | $0.00 | $50.22 | $0.00 | $0.00 | $0.00 | $0.00 | $1.55 |
| (48) | | 153 | $366.50 | $311.08 | $55.42 | 17.8% | $0.00 | $53.76 | $0.00 | $0.00 | $0.00 | $0.00 | $1.66 |
| (49) | | 160 | $378.07 | $320.14 | $57.93 | 18.1% | $0.00 | $56.19 | $0.00 | $0.00 | $0.00 | $0.00 | $1.74 |

**Residential Non-Heating Low Income:**

| Line | | Annual Consumption (Therms) | Mar- Oct Proposed Rates | Mar- Oct Current Rates | Mar- Oct Difference | % Chg | Difference due to: Base Rates | GCR | DAC: Base DAC | DAC: ISR | EE | LIHEAP | GET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (53) | | | | | | | | | | | | | |
| (54) | | 77 | $226.83 | $198.96 | $27.87 | 14.0% | $0.00 | $27.03 | $0.00 | $0.00 | $0.00 | $0.00 | $0.84 |
| (55) | | 86 | $241.28 | $210.15 | $31.13 | 14.8% | $0.00 | $30.20 | $0.00 | $0.00 | $0.00 | $0.00 | $0.93 |
| (56) | | 95 | $255.75 | $221.36 | $34.39 | 15.5% | $0.00 | $33.36 | $0.00 | $0.00 | $0.00 | $0.00 | $1.03 |
| (57) | | 102 | $266.97 | $230.03 | $36.94 | 16.1% | $0.00 | $35.83 | $0.00 | $0.00 | $0.00 | $0.00 | $1.11 |
| (58) | | 109 | $278.21 | $238.73 | $39.47 | 16.5% | $0.00 | $38.29 | $0.00 | $0.00 | $0.00 | $0.00 | $1.18 |
| (59) | **Average Customer** | **119** | **$293.79** | **$250.79** | **$43.00** | **17.1%** | $0.00 | $41.71 | $0.00 | $0.00 | $0.00 | $0.00 | $1.29 |
| (60) | | 126 | $305.52 | $259.89 | $45.63 | 17.6% | $0.00 | $44.26 | $0.00 | $0.00 | $0.00 | $0.00 | $1.37 |
| (61) | | 135 | $319.95 | $271.07 | $48.89 | 18.0% | $0.00 | $47.42 | $0.00 | $0.00 | $0.00 | $0.00 | $1.47 |
| (62) | | 143 | $332.82 | $281.04 | $51.77 | 18.4% | $0.00 | $50.22 | $0.00 | $0.00 | $0.00 | $0.00 | $1.55 |
| (63) | | 153 | $348.85 | $293.43 | $55.42 | 18.9% | $0.00 | $53.76 | $0.00 | $0.00 | $0.00 | $0.00 | $1.66 |
| (64) | | 160 | $360.11 | $302.18 | $57.93 | 19.2% | $0.00 | $56.19 | $0.00 | $0.00 | $0.00 | $0.00 | $1.74 |

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National Grid - RI Gas
Interim Gas Cost Recovery Filing
Bill Impact Analysis with Various Levels of Consumption:

**C & I Small:**

| | | | Mar- Oct | Mar- Oct | | | Difference due to: | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (65) | | Annual | Proposed | Current | Mar- Oct | | | | | | | | |
| (66) | | Consumption (Therms) | Rates | Rates | Difference | % Chg | Base Rates | GCR | DAC | | EE | LIHEAP | GET |
| (67) | | | | | | | | | Base DAC | ISR | | | |
| (68) | | | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- |
| (69) | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
| (70) | | | | | | | | | | | | | |
| (71) | | 402 | $854.25 | $708.75 | $145.49 | 20.5% | $0.00 | $141.13 | $0.00 | $0.00 | $0.00 | $0.00 | $4.36 |
| (72) | | 444 | $916.65 | $755.95 | $160.70 | 21.3% | $0.00 | $155.88 | $0.00 | $0.00 | $0.00 | $0.00 | $4.82 |
| (73) | | 486 | $978.41 | $802.50 | $175.91 | 21.9% | $0.00 | $170.63 | $0.00 | $0.00 | $0.00 | $0.00 | $5.28 |
| (74) | | 530 | $1,042.64 | $850.79 | $191.85 | 22.5% | $0.00 | $186.09 | $0.00 | $0.00 | $0.00 | $0.00 | $5.76 |
| (75) | | 574 | $1,106.45 | $898.69 | $207.75 | 23.1% | $0.00 | $201.52 | $0.00 | $0.00 | $0.00 | $0.00 | $6.23 |
| (76) | **Average Customer** | **617** | **$1,165.36** | **$942.11** | **$223.25** | **23.7%** | $0.00 | $216.55 | $0.00 | $0.00 | $0.00 | $0.00 | $6.70 |
| (77) | | 660 | $1,224.88 | $985.97 | $238.91 | 24.2% | $0.00 | $231.74 | $0.00 | $0.00 | $0.00 | $0.00 | $7.17 |
| (78) | | 703 | $1,284.07 | $1,029.58 | $254.48 | 24.7% | $0.00 | $246.85 | $0.00 | $0.00 | $0.00 | $0.00 | $7.63 |
| (79) | | 746 | $1,343.23 | $1,073.18 | $270.05 | 25.2% | $0.00 | $261.95 | $0.00 | $0.00 | $0.00 | $0.00 | $8.10 |
| (80) | | 789 | $1,402.41 | $1,116.80 | $285.61 | 25.6% | $0.00 | $277.04 | $0.00 | $0.00 | $0.00 | $0.00 | $8.57 |
| (81) | | 832 | $1,461.59 | $1,160.44 | $301.15 | 26.0% | $0.00 | $292.12 | $0.00 | $0.00 | $0.00 | $0.00 | $9.03 |

**C & I Medium:**

| | | | Mar- Oct | Mar- Oct | | | Difference due to: | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (82) | | Annual | Proposed | Current | Mar- Oct | | | | | | | | |
| (83) | | Consumption (Therms) | Rates | Rates | Difference | % Chg | Base Rates | GCR | DAC | | EE | LIHEAP | GET |
| (84) | | | | | | | | | Base DAC | ISR | | | |
| (85) | | | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- |
| (86) | | 3,953 | $6,141.61 | $4,710.78 | $1,430.82 | 30.4% | $0.00 | $1,387.90 | $0.00 | $0.00 | $0.00 | $0.00 | $42.92 |
| (87) | | 4,378 | $6,739.44 | $5,154.77 | $1,584.67 | 30.7% | $0.00 | $1,537.13 | $0.00 | $0.00 | $0.00 | $0.00 | $47.54 |
| (88) | | 4,803 | $7,336.91 | $5,598.42 | $1,738.48 | 31.1% | $0.00 | $1,686.33 | $0.00 | $0.00 | $0.00 | $0.00 | $52.15 |
| (89) | | 5,228 | $7,934.75 | $6,042.42 | $1,892.33 | 31.3% | $0.00 | $1,835.56 | $0.00 | $0.00 | $0.00 | $0.00 | $56.77 |
| (90) | | 5,654 | $8,533.47 | $6,486.96 | $2,046.52 | 31.5% | $0.00 | $1,985.12 | $0.00 | $0.00 | $0.00 | $0.00 | $61.40 |
| (91) | **Average Customer** | **6,080** | **$9,132.60** | **$6,931.84** | **$2,200.75** | **31.7%** | $0.00 | $2,134.73 | $0.00 | $0.00 | $0.00 | $0.00 | $66.02 |
| (92) | | 6,506 | $9,731.33 | $7,376.43 | $2,354.90 | 31.9% | $0.00 | $2,284.25 | $0.00 | $0.00 | $0.00 | $0.00 | $70.65 |
| (93) | | 6,932 | $10,330.11 | $7,820.99 | $2,509.12 | 32.1% | $0.00 | $2,433.85 | $0.00 | $0.00 | $0.00 | $0.00 | $75.27 |
| (94) | | 7,357 | $10,927.89 | $8,264.96 | $2,662.93 | 32.2% | $0.00 | $2,583.04 | $0.00 | $0.00 | $0.00 | $0.00 | $79.89 |
| (95) | | 7,783 | $11,526.68 | $8,709.55 | $2,817.12 | 32.3% | $0.00 | $2,732.61 | $0.00 | $0.00 | $0.00 | $0.00 | $84.51 |
| (96) | | 8,208 | $12,124.47 | $9,153.51 | $2,970.96 | 32.5% | $0.00 | $2,881.83 | $0.00 | $0.00 | $0.00 | $0.00 | $89.13 |

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National Grid - RI Gas
Interim Gas Cost Recovery Filing
Bill Impact Analysis with Various Levels of Consumption:

**C & I LLF Large:**

| | | | Mar- Oct | Mar- Oct | | | Difference due to: | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (97) | | Annual | Proposed | Current | Mar- Oct | | | | | | | | |
| (98) | | Consumption (Therms) | Rates | Rates | Difference | % Chg | Base Rates | GCR | DAC | | EE | LIHEAP | GET |
| (99) | | | | | | | | | Base DAC | ISR | | | |
| (100) | | | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- |
| (101) | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
| (102) | | | | | | | | | | | | | |
| (103) | | 18,225 | $27,126.57 | $20,529.86 | $6,596.71 | 32.1% | $0.00 | $6,398.81 | $0.00 | $0.00 | $0.00 | $0.00 | $197.90 |
| (104) | | 20,186 | $29,889.62 | $22,583.13 | $7,306.49 | 32.4% | $0.00 | $7,087.30 | $0.00 | $0.00 | $0.00 | $0.00 | $219.19 |
| (105) | | 22,149 | $32,655.16 | $24,638.10 | $8,017.05 | 32.5% | $0.00 | $7,776.54 | $0.00 | $0.00 | $0.00 | $0.00 | $240.51 |
| (106) | | 24,112 | $35,420.70 | $26,693.15 | $8,727.55 | 32.7% | $0.00 | $8,465.72 | $0.00 | $0.00 | $0.00 | $0.00 | $261.83 |
| (107) | | 26,076 | $38,187.44 | $28,749.01 | $9,438.43 | 32.8% | $0.00 | $9,155.28 | $0.00 | $0.00 | $0.00 | $0.00 | $283.15 |
| (108) | **Average Customer** | **28,037** | **$40,950.61** | **$30,802.36** | **$10,148.25** | **32.9%** | $0.00 | $9,843.80 | $0.00 | $0.00 | $0.00 | $0.00 | $304.45 |
| (109) | | 29,999 | $43,714.77 | $32,856.36 | $10,858.41 | 33.0% | $0.00 | $10,532.66 | $0.00 | $0.00 | $0.00 | $0.00 | $325.75 |
| (110) | | 31,962 | $46,480.29 | $34,911.35 | $11,568.94 | 33.1% | $0.00 | $11,221.87 | $0.00 | $0.00 | $0.00 | $0.00 | $347.07 |
| (111) | | 33,925 | $49,246.23 | $36,966.78 | $12,279.44 | 33.2% | $0.00 | $11,911.06 | $0.00 | $0.00 | $0.00 | $0.00 | $368.38 |
| (112) | | 35,888 | $52,011.75 | $39,021.77 | $12,989.98 | 33.3% | $0.00 | $12,600.28 | $0.00 | $0.00 | $0.00 | $0.00 | $389.70 |
| (113) | | 37,850 | $54,776.04 | $41,075.90 | $13,700.14 | 33.4% | $0.00 | $13,289.14 | $0.00 | $0.00 | $0.00 | $0.00 | $411.00 |

**C & I HLF Large:**

| | | | Mar- Oct | Mar- Oct | | | Difference due to: | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (114) | | Annual | Proposed | Current | Mar- Oct | | | | | | | | |
| (115) | | Consumption (Therms) | Rates | Rates | Difference | % Chg | Base Rates | GCR | DAC | | EE | LIHEAP | GET |
| (116) | | | | | | | | | Base DAC | ISR | | | |
| (117) | | | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- |
| (118) | | 30,067 | $38,404.79 | $27,518.66 | $10,886.13 | 39.6% | $0.00 | $10,559.55 | $0.00 | $0.00 | $0.00 | $0.00 | $326.58 |
| (119) | | 33,306 | $42,385.79 | $30,326.93 | $12,058.86 | 39.8% | $0.00 | $11,697.09 | $0.00 | $0.00 | $0.00 | $0.00 | $361.77 |
| (120) | | 36,546 | $46,367.85 | $33,135.91 | $13,231.94 | 39.9% | $0.00 | $12,834.98 | $0.00 | $0.00 | $0.00 | $0.00 | $396.96 |
| (121) | | 39,782 | $50,345.37 | $35,941.84 | $14,403.53 | 40.1% | $0.00 | $13,971.42 | $0.00 | $0.00 | $0.00 | $0.00 | $432.11 |
| (122) | | 43,021 | $54,326.36 | $38,750.08 | $15,576.28 | 40.2% | $0.00 | $15,108.99 | $0.00 | $0.00 | $0.00 | $0.00 | $467.29 |
| (123) | **Average Customer** | **46,260** | **$58,306.65** | **$41,557.80** | **$16,748.86** | **40.3%** | $0.00 | $16,246.39 | $0.00 | $0.00 | $0.00 | $0.00 | $502.47 |
| (124) | | 49,499 | $62,287.73 | $44,366.03 | $17,921.70 | 40.4% | $0.00 | $17,384.05 | $0.00 | $0.00 | $0.00 | $0.00 | $537.65 |
| (125) | | 52,736 | $66,266.39 | $47,172.71 | $19,093.68 | 40.5% | $0.00 | $18,520.87 | $0.00 | $0.00 | $0.00 | $0.00 | $572.81 |
| (126) | | 55,975 | $70,247.36 | $49,980.95 | $20,266.41 | 40.5% | $0.00 | $19,658.42 | $0.00 | $0.00 | $0.00 | $0.00 | $607.99 |
| (127) | | 59,213 | $74,227.21 | $52,788.43 | $21,438.78 | 40.6% | $0.00 | $20,795.62 | $0.00 | $0.00 | $0.00 | $0.00 | $643.16 |
| (128) | | 62,452 | $78,208.17 | $55,596.67 | $22,611.49 | 40.7% | $0.00 | $21,933.15 | $0.00 | $0.00 | $0.00 | $0.00 | $678.34 |

National Grid - RI Gas
Interim Gas Cost Recovery Filing
Bill Impact Analysis with Various Levels of Consumption:

**C & I LLF Extra-Large:**

| | | | Mar- Oct | Mar- Oct | | | Difference due to: | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (129) | | Annual | Proposed | Current | Mar- Oct | | | | | | | | |
| (130) | | Consumption (Therms) | Rates | Rates | Difference | % Chg | Base Rates | GCR | DAC | | EE | LIHEAP | GET |
| (131) | | | | | | | | | Base DAC | ISR | | | |
| (132) | | | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- |
| (133) | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
| (134) | | | | | | | | | | | | | |
| (135) | | 72,940 | $90,048.14 | $63,646.87 | $26,401.28 | 41.5% | $0.00 | $25,609.24 | $0.00 | $0.00 | $0.00 | $0.00 | $792.04 |
| (136) | | 80,797 | $99,369.33 | $70,124.13 | $29,245.20 | 41.7% | $0.00 | $28,367.84 | $0.00 | $0.00 | $0.00 | $0.00 | $877.36 |
| (137) | | 88,652 | $108,688.45 | $76,600.08 | $32,088.37 | 41.9% | $0.00 | $31,125.72 | $0.00 | $0.00 | $0.00 | $0.00 | $962.65 |
| (138) | | 96,505 | $118,005.84 | $83,075.02 | $34,930.82 | 42.0% | $0.00 | $33,882.90 | $0.00 | $0.00 | $0.00 | $0.00 | $1,047.92 |
| (139) | | 104,363 | $127,328.06 | $89,552.95 | $37,775.10 | 42.2% | $0.00 | $36,641.85 | $0.00 | $0.00 | $0.00 | $0.00 | $1,133.25 |
| (140) | **Average Customer** | **112,217** | **$136,646.33** | **$96,028.36** | **$40,617.97** | **42.3%** | $0.00 | $39,399.43 | $0.00 | $0.00 | $0.00 | $0.00 | $1,218.54 |
| (141) | | 120,072 | $145,965.27 | $102,504.15 | $43,461.12 | 42.4% | $0.00 | $42,157.29 | $0.00 | $0.00 | $0.00 | $0.00 | $1,303.83 |
| (142) | | 127,927 | $155,284.73 | $108,980.44 | $46,304.29 | 42.5% | $0.00 | $44,915.16 | $0.00 | $0.00 | $0.00 | $0.00 | $1,389.13 |
| (143) | | 135,782 | $164,603.86 | $115,456.38 | $49,147.48 | 42.6% | $0.00 | $47,673.06 | $0.00 | $0.00 | $0.00 | $0.00 | $1,474.42 |
| (144) | | 143,638 | $173,924.00 | $121,932.96 | $51,991.04 | 42.6% | $0.00 | $50,431.31 | $0.00 | $0.00 | $0.00 | $0.00 | $1,559.73 |
| (145) | | 151,493 | $183,243.11 | $128,408.88 | $54,834.23 | 42.7% | $0.00 | $53,189.20 | $0.00 | $0.00 | $0.00 | $0.00 | $1,645.03 |

**C & I HLF Extra-Large:**

| | | | Mar- Oct | Mar- Oct | | | Difference due to: | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (146) | | Annual | Proposed | Current | Mar- Oct | | | | | | | | |
| (147) | | Consumption (Therms) | Rates | Rates | Difference | % Chg | Base Rates | GCR | DAC | | EE | LIHEAP | GET |
| (148) | | | | | | | | | Base DAC | ISR | | | |
| (149) | | | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- |
| (150) | | 276,118 | $297,083.00 | $197,111.21 | $99,971.79 | 50.7% | $0.00 | $96,972.64 | $0.00 | $0.00 | $0.00 | $0.00 | $2,999.15 |
| (151) | | 305,854 | $328,698.36 | $217,960.30 | $110,738.06 | 50.8% | $0.00 | $107,415.92 | $0.00 | $0.00 | $0.00 | $0.00 | $3,322.14 |
| (152) | | 335,589 | $360,313.30 | $238,809.33 | $121,503.98 | 50.9% | $0.00 | $117,858.86 | $0.00 | $0.00 | $0.00 | $0.00 | $3,645.12 |
| (153) | | 365,325 | $391,928.63 | $259,658.38 | $132,270.25 | 50.9% | $0.00 | $128,302.14 | $0.00 | $0.00 | $0.00 | $0.00 | $3,968.11 |
| (154) | | 395,060 | $423,543.03 | $280,506.86 | $143,036.16 | 51.0% | $0.00 | $138,745.08 | $0.00 | $0.00 | $0.00 | $0.00 | $4,291.08 |
| (155) | **Average Customer** | **424,797** | **$455,159.35** | **$301,356.71** | **$153,802.64** | **51.0%** | $0.00 | $149,188.56 | $0.00 | $0.00 | $0.00 | $0.00 | $4,614.08 |
| (156) | | 454,532 | $486,774.27 | $322,205.58 | $164,568.69 | 51.1% | $0.00 | $159,631.63 | $0.00 | $0.00 | $0.00 | $0.00 | $4,937.06 |
| (157) | | 484,269 | $518,390.64 | $343,055.32 | $175,335.32 | 51.1% | $0.00 | $170,075.26 | $0.00 | $0.00 | $0.00 | $0.00 | $5,260.06 |
| (158) | | 514,004 | $550,005.55 | $363,904.32 | $186,101.24 | 51.1% | $0.00 | $180,518.20 | $0.00 | $0.00 | $0.00 | $0.00 | $5,583.04 |
| (159) | | 543,739 | $581,619.94 | $384,752.83 | $196,867.11 | 51.2% | $0.00 | $190,961.10 | $0.00 | $0.00 | $0.00 | $0.00 | $5,906.01 |
| (160) | | 573,476 | $613,236.84 | $405,603.05 | $207,633.79 | 51.2% | $0.00 | $201,404.78 | $0.00 | $0.00 | $0.00 | $0.00 | $6,229.01 |

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4719
Attachment DIV 4-8
Page 8 of 8

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Division 4-9

Request:

Re: National Grid's January 29, Interim Gas Cost Recovery Filing and the testimony of Witness Leary at page 10, lines 15-16. Please provide the workpapers, data, analyses, and assumptions relied upon to support the referenced $245,000 amount for interest through October 31, 2018.

Response:

The $245,000 savings in interest for the period March 2018 through October 2018 is the difference between the interest of $489,997 presented in Attachment AEL-3, Page 1, Line (47), Column (m), interest on the projected deferred balance assuming the Company's proposal is approved; and the interest of $735,256 presented in Attachment AEL-2, Page 1, Line (47), Column (m), interest on the projected deferred balance assuming no change in the current Gas Cost Recovery factors approved for effect November 1, 2017.

Prepared by or under the supervision of: Ann E. Leary

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Division 4-10

Request:

Re: National Grid's January 29, Interim Gas Cost Recovery Filing and Attachment AEL-5, to the testimony of Witness Leary. Please provide analyses comparable to those found on pages 2 of 15 and 3 of 15 in Attachment AEL-1S, filed by the Company in Docket No. 4719 on September 29, 2017.

Response:

Please see Attachment DIV 4-10. In the attachment, all amounts except the deferred fixed and variable costs on page 1, line (11), and page 2, line (6), are sourced from Attachment AEL-2, page 1, of the Interim Gas Cost Recovery (GCR) Filing. The deferred fixed and variable costs in Attachment DIV 4-10 are the same as those presented in the Company's September 29, 2017 GCR Filing in Attachment AEL-1S.

**National Grid - RI Gas**
**Gas Cost Recovery (GCR) Filing**
**Fixed Cost Calculation ($ per Dth)**

| Line No. | Description (a) | Source: Reference * (b) | Source: Line # (c) | Amount (d) | High Load Factor Total (e) | Low Load Factor Total (f) |
|---|---|---|---|---|---|---|
| (1) | Fixed Costs (net of Cap Rel to marketers) | AEL-2 Pg 1, Col (m) | Line (4) | $58,818,154 | | |
| | Less: | | | | | |
| (2) | NGPMP Customer Benefit | AEL-2 Pg 1, Col (m) | Line (7) | ($10,900,000) | | |
| (3) | Interruptible Costs | | | $0 | | |
| (4) | FT-2 Storage Demand Costs | AEL-2 Pg 5, Col (m) | Line (9) | ($2,041,978) | | |
| (5) | Systeme Pressure to DAC | AEL-2 Pg 1, Col (m) | Line (5) | ($3,153,600) | | |
| (6) | Refunds | | | $0 | | |
| (7) | Total Credits | sum[(2):(6)] | | ($16,095,578) | | |
| | Plus: | | | | | |
| (8) | Supply Related LNG O&M Costs | AEL-2 Pg 1, Col (m) | Line (6) | $575,581 | | |
| (9) | Portable LNG Storage Cost | | | $0 | | |
| (10) | Working Capital Requirement | AEL-2 Pg 1, Col (m) | Line (8) | $285,170 | | |
| (11) | Deferred Fixed Cost Under-recovered | Docket No. 4719: Supplemental GCR Filing, AEL-1S Pg 2 | Line (11) | $1,169,851 | | |
| (12) | Reconciliation Amount from Fixed costs- Marketers | AEL-2 Pg 1, Col (m) | Line (16) | $36,098 | | |
| (13) | Total Additions | sum[(8):(12)] | | $2,066,699 | | |
| (14) | Total Fixed Costs | (1) + (7) + (13) | | $44,789,275 | | |
| (15) | Design Winter Sales Percentage | Docket No. 4719: Supplemental GCR Filing, AEL-1S Pg 12, Col (h) | Lines (10) & (11) | | 2.12% | 97.88% |
| (16) | Allocated Supply Fixed Costs | (14) x (15) | | | $950,444 | $43,838,831 |
| (17) | Sales (Dt) Act Nov 17-Jan 18 FCST Feb 18-Oct 18 | AEL-2 Pg 8, Col (m) | Line (12) | 28,147,117 | 785,281 | 27,361,836 |
| (18) | **Fixed Factor** | (16) / (17) | | | **$1.2103** | **$1.6021** |

Line (17)
Col (e): AEL-2, page 8, Sum of Lines (2), (3), (9), (11)
Col (f): AEL-2, page 8, Sum of Lines (4)-(8), (10)
*- Referenced to Interim GCR Filing sumbitted on January 29, 2018 unless otherwise noted

**National Grid - RI Gas**
**Gas Cost Recovery (GCR) Filing**
**Variable Cost Calculation ($ per Dth)**

| Line No. | Description | Source: Reference* | Source: Line # | Amount |
|---|---|---|---|---|
| | (a) | (b) | (c) | (d) |
| (1) | Variable Costs, excluding Refunds | AEL-2 Pg 1, Col (m) | Line (20) | $117,005,862 |
| | Less: | | | |
| (2) | Non-Firm Sales | | | $0 |
| (3) | Refunds | | | $0 |
| (4) | Total Credits | sum [(2):(3)] | | $0 |
| | Plus: | | | |
| (5) | Working Capital | AEL-2 Pg 1, Col (m) | Line (25) | $610,345 |
| (6) | Deferred Variable Cost Under-recovered | Docket No. 4719: Supplemental GCR Filing, AEL-1S Pg 3 | Line (6) | $12,377,603 |
| (7) | Supply Related LNG O&M | AEL-2 Pg 1, Col (m) | Line (22) | $572,694 |
| (8) | Inventory Financing - LNG | AEL-2 Pg 1, Col (m) | Line (23) | $193,185 |
| (9) | Inventory Financing - Storage | AEL-2 Pg 1, Col (m) | Line (24) | $548,077 |
| (10) | Total Additions | sum [(5):(9)] | | $14,301,903 |
| (11) | Total Variable Supply Costs | (1) + (4) + (10) | | $131,307,765 |
| (12) | Sales (Dt) Nov 2017 - Oct 2018 | AEL-2 Pg 8, Col (m) | Line (12) | 28,147,117 |
| (13) | **Variable Cost Factor** | (11) / (12) | | **$4.6650** |

*- Referenced to Interim GCR Filing sumbitted on January 29, 2018 unless otherwised noted.

Division 4-11

Request:

Re: National Grid's January 29, Interim Gas Cost Recovery Filing and the testimony of Witness Leary, Attachment AEL-2, pages 8 and 9, and Attachment AEL-3, page 8 and 9. Please:

a. Explain where the adjustments to January volumes discussed on pages 5 and 6 of Witness Leary's testimony are reflected.

b. Verify that actual November 2017 Transportation volumes as shown in Attachments AEL-2 and AEL-3 were approximately 850,000 Dth or more than 275,000 Dth **below** the 1,126,446 Dth level forecasted for Transportation volumes for November 2017 in Attachment AEL-1S, page 11 of 15, filed on September 29, 2017.

c. Verify that actual December 2017 Transportation volumes as shown in Attachments AEL-2 and AEL-3 were approximately 1,325,000 Dth or more than 220,000 Dth **below** the 1,547,466 Dth level forecasted for Transportation volumes for November 2017 in Attachment AEL-1S, page 11 of 15, filed on September 29, 2017.

Response:

a. The calculation of the adjustments discussed on pages 5 and 6 are presented in Attachment AEL-5. The adjustment to the January 2018 forecasted sales is shown on lines (14)-(22), and the revised January sales forecast is reflected in Attachment AEL-3, page 8, column (c).

b. Yes, the Company had forecasted 1,126,446 dekatherms of firm transportation for November 2017 while the actual transportation volumes were 849,732, for a difference of 276,714. The billing month of November 2017 was 27 percent warmer than normal, contributing to this decrease in transportation volumes.

c. Yes, the Company had forecasted 1,547,466 dekatherms of firm transportation for December 2017 while the actual transportation volumes were 1,325,736, for a difference of 221,730.

Prepared by or under the supervision of: Ann E. Leary

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Division 4-12

Request:

Re: National Grid's January 29, Interim Gas Cost Recovery Filing and Attachment AEL-5, to the testimony of Witness Leary. As shown in the top section of Attachment AEL-5 forecasted sales volumes for both November 2017 and December 2017 are below the forecasted sales for those months. Please explain why the 571,367 Dth (i.e., 25%) increase in gas sendout for November 2017 shown in the middle section of the same attachment was not reflected as an increased actual billed sales for either November 2017 or December 2017.

Response:

In Attachment AEL-5, the Company compared the actual sales and actual sendout with the original forecast. The actual sendout for November 2017 was 571,367 dekatherms higher than the original forecast. This request is asking for an explanation as to why actual sales for November 2017 and/or December 2017 (recognizing a billing lag) are also not higher than the original sales forecast, similar to forecasted and actual sendout for these months. Inherent in this question is the assumption that the relationship between the forecasted monthly sales and forecasted monthly sendout is consistent with the relationship between the actual monthly sales and actual monthly sendout. The Company believes a better indicator of this relationship would be to review the annual calculation of unaccounted for gas (UFG).

In Attachment DIV 4-12, the Company is presenting the calculation of UFG for several years, on a monthly basis. This calculation compares annual sales and sendout volumes and assumes the difference is due to lost gas (i.e., UFG). The original annual UFG for the forecasted period November 2017 through October 2018 is 2.7 percent, as shown in Column (m), line (30). The Company has also presented the annual UFG based on actual sales and sendout data for the months of November 2017 through January 2018 and forecasted data for February 2018 through October 2018, which results in an annual UFG of 7.2 percent (Column (m), line (31)), which is significantly higher than the original forecast. The actual historical annual UFG for the past seven years has ranged from a low of 2.6 percent to a high of 6.1 percent, with an overall average of 3.9 percent (Column (m), line (39)). The 2017-18 Actual/Forecast UFG of 7.2 percent is significantly higher than the average the Company has experienced over the past seven years, and hence the Company believes that the forecasted sales are understated due to the billing lag inherent in billing customers on a cycle basis (throughout the month as meters are read). The Company has computed the incremental sales needed to obtain an annual UFG of 4 percent to be approximately 925,000 dktherms and anticipates that these incremental sales will occur during the period February 2018 through October 2018.

Prepared by or under the supervision of: Ann E. Leary

**Historical Unaccounted for Analysis**

| Line # | | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Total Nov-Oct |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Sales** | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) | (m) |
| (1) | GCR fcst (Dkt 4719) | 1,746,930 | 3,167,346 | 4,325,184 | 4,627,445 | 4,077,839 | 2,878,555 | 1,568,022 | 912,469 | 630,861 | 561,730 | 630,438 | 787,624 | 25,914,442 |
| (2) | Fcst/Actual Nov 17-Oct 18* | 1,533,220 | 3,123,009 | 5,720,779 | 4,627,445 | 4,077,839 | 2,878,555 | 1,568,022 | 912,469 | 630,861 | 561,730 | 630,438 | 787,624 | 27,051,990 |
| (3) | GCR (Dkt 4647) Nov 16-Oct 17 Actual | 1,624,752 | 2,968,700 | 4,313,898 | 4,209,787 | 3,848,592 | 3,359,876 | 1,481,143 | 1,007,310 | 651,366 | 588,289 | 604,928 | 614,584 | 25,273,226 |
| (4) | GCR (Dkt 4576) Nov 15-Oct 16 Actual | 1,388,648 | 2,699,532 | 3,481,832 | 4,317,898 | 3,758,980 | 2,672,534 | 1,603,977 | 904,187 | 623,002 | 548,284 | 540,759 | 749,733 | 23,289,364 |
| (5) | GCR (Dkt 4520) Nov 14-Oct 15 Actual | 1,323,493 | 3,404,433 | 4,535,518 | 5,777,914 | 5,342,849 | 3,611,438 | 1,581,919 | 860,825 | 665,221 | 591,702 | 576,843 | 741,392 | 29,013,547 |
| (6) | GCR (Dkt 4436) Nov 13-Oct 14 Actual | 1,526,737 | 3,440,236 | 4,931,618 | 4,923,590 | 4,773,574 | 3,322,148 | 1,776,556 | 888,499 | 637,799 | 580,607 | 572,682 | 738,787 | 28,112,832 |
| (7) | GCR (Dkt 4346) Nov 12-Oct 13 Actual | 1,396,953 | 2,956,016 | 3,911,537 | 4,528,981 | 3,886,355 | 3,060,061 | 1,482,166 | 790,490 | 686,094 | 557,230 | 653,960 | 710,428 | 24,620,271 |
| (8) | GCR (Dkt 4283) Nov 11-Oct 12 Actual | 1,527,031 | 2,263,705 | 3,350,366 | 3,725,541 | 3,268,037 | 2,173,777 | 1,289,670 | 798,118 | 637,404 | 577,761 | 558,218 | 728,304 | 20,897,931 |
| (9) | GCR (Dkt 4199) Nov 10-Oct 11 Actual | 1,451,637 | 3,103,444 | 4,569,474 | 4,636,697 | 3,961,659 | 2,887,652 | 1,458,175 | 866,598 | 665,545 | 548,084 | 600,586 | 642,361 | 25,391,913 |
| | **Sendout** | | | | | | | | | | | | | |
| (10) | GCR fcst (Dkt 4719) | 2,286,401 | 3,945,192 | 4,943,244 | 4,417,284 | 3,736,115 | 2,175,893 | 1,268,260 | 808,643 | 647,353 | 593,008 | 639,818 | 1,177,517 | 26,638,728 |
| (11) | Fcst/Actual Nov 17-Oct 18* | 2,857,768 | 5,113,414 | 5,717,913 | 4,417,284 | 3,736,115 | 2,175,893 | 1,268,260 | 808,643 | 647,353 | 593,008 | 639,818 | 1,177,517 | **29,152,986** |
| (12) | GCR (Dkt 4647) Nov 16-Oct 17 Actual | 2,439,471 | 4,348,509 | 4,479,525 | 3,911,408 | 4,619,101 | 1,864,018 | 1,165,265 | 733,008 | 588,266 | 629,877 | 708,199 | 843,537 | 26,330,185 |
| (13) | GCR (Dkt 4576) Nov 15-Oct 16 Actual | 2,195,571 | 2,723,852 | 4,890,191 | 4,304,904 | 2,978,237 | 2,249,346 | 1,076,381 | 667,545 | 556,713 | 555,956 | 582,017 | 1,118,903 | 23,899,617 |
| (14) | GCR (Dkt 4520) Nov 14-Oct 15 Actual | 2,850,376 | 3,926,773 | 5,922,299 | 6,062,906 | 4,633,539 | 2,149,485 | 888,787 | 735,715 | 627,899 | 601,666 | 586,021 | 1,307,617 | 30,293,082 |
| (15) | GCR (Dkt 4436) Nov 13-Oct 14 Actual | 2,944,402 | 4,389,620 | 5,483,683 | 4,690,525 | 4,428,381 | 2,110,808 | 975,266 | 698,631 | 662,061 | 647,157 | 669,058 | 1,182,934 | 28,882,525 |
| (16) | GCR (Dkt 4346) Nov 12-Oct 13 Actual | 2,939,805 | 3,600,041 | 4,707,254 | 4,362,287 | 3,777,393 | 2,032,909 | 931,940 | 709,050 | 603,187 | 641,957 | 659,903 | 1,260,630 | 26,226,357 |
| (17) | GCR (Dkt 4283) Nov 11-Oct 12 Actual | 1,974,654 | 3,312,239 | 4,236,987 | 3,551,192 | 2,512,040 | 1,519,765 | 957,253 | 712,168 | 611,771 | 613,217 | 650,030 | 870,097 | 21,521,413 |
| (18) | GCR (Dkt 4199) Nov 10-Oct 11 Actual | 2,435,450 | 4,637,192 | 5,159,346 | 4,315,798 | 3,470,669 | 1,877,131 | 1,016,355 | 692,635 | 612,268 | 593,425 | 591,147 | 1,127,921 | 26,529,337 |
| (19) | Historical Average (2010-2017) | 2,539,961 | 3,848,318 | 4,982,755 | 4,457,003 | 3,774,194 | 1,971,923 | 1,001,607 | 706,965 | 608,881 | 611,894 | 635,197 | 1,101,663 | 26,240,359 |
| | **UFG** | | | | | | | | | | | | | |
| (20) | GCR fcst (Dkt 4719) | 539,471 | 777,846 | 618,060 | (210,161) | (341,724) | (702,662) | (299,762) | (103,826) | 16,492 | 31,278 | 9,380 | 389,893 | 724,286 |
| (21) | Fcst/Actual Nov 17-Oct 18* | 1,324,549 | 1,990,405 | (2,866) | (210,161) | (341,724) | (702,662) | (299,762) | (103,826) | 16,492 | 31,278 | 9,380 | 389,893 | **2,100,996** |
| (22) | GCR (Dkt 4647) Nov 16-Oct 17 Actual | 814,719 | 1,379,809 | 165,627 | (298,379) | 770,509 | (1,495,858) | (315,878) | (274,302) | (63,100) | 41,588 | 103,271 | 228,953 | 1,056,959 |
| (23) | GCR (Dkt 4576) Nov 15-Oct 16 Actual | 806,924 | 24,320 | 1,408,359 | (12,994) | (780,743) | (423,188) | (527,596) | (236,642) | (66,289) | 7,673 | 41,259 | 369,170 | 610,253 |
| (24) | GCR (Dkt 4520) Nov 14-Oct 15 Actual | 1,526,882 | 522,340 | 1,386,780 | 284,992 | (709,310) | (1,461,953) | (693,132) | (125,110) | (37,321) | 9,964 | 9,178 | 566,225 | 1,279,535 |
| (25) | GCR (Dkt 4436) Nov 13-Oct 14 Actual | 1,417,665 | 949,384 | 552,065 | (233,065) | (345,193) | (1,211,340) | (801,290) | (189,868) | 24,262 | 66,550 | 96,376 | 444,147 | 769,693 |
| (26) | GCR (Dkt 4346) Nov 12-Oct 13 Actual | 1,542,852 | 644,025 | 795,718 | (166,694) | (108,963) | (1,027,152) | (550,226) | (81,440) | (82,907) | 84,727 | 5,943 | 550,203 | 1,606,086 |
| (27) | GCR (Dkt 4283) Nov 11-Oct 12 Actual | 447,623 | 1,048,534 | 886,621 | (174,349) | (755,997) | (654,012) | (332,417) | (85,950) | (25,632) | 35,456 | 91,812 | 141,793 | 623,482 |
| (28) | GCR (Dkt 4199) Nov 10-Oct 11 Actual | 983,813 | 1,533,748 | 589,872 | (320,899) | (490,991) | (1,010,521) | (441,820) | (173,963) | (53,277) | 45,341 | (9,439) | 485,560 | 1,137,424 |
| (29) | Historical Average (2010-2017) | 1,077,211 | 871,737 | 826,435 | (131,627) | (345,812) | (1,040,575) | (523,194) | (166,754) | (43,466) | 41,614 | 48,343 | 398,007 | 1,011,919 |
| | **UFG %** | | | | | | | | | | | | | |
| (30) | GCR fcst (Dkt 4719) | 24% | 20% | 13% | -5% | -9% | -32% | -24% | -13% | 3% | 5% | 1% | 33% | 2.7% |
| (31) | Fcst/Actual Nov 17-Oct 18* | 46% | 39% | 0% | -5% | -9% | -32% | -24% | -13% | 3% | 5% | 1% | 33% | **7.2%** |
| (32) | GCR (Dkt 4647) Nov 16-Oct 17 Actual | 33% | 32% | 4% | -8% | 17% | -80% | -27% | -37% | -11% | 7% | 15% | 27% | 4.0% |
| (33) | GCR (Dkt 4576) Nov 15-Oct 16 Actual | 37% | 1% | 29% | 0% | -26% | -19% | -49% | -35% | -12% | 1% | 7% | 33% | 2.6% |
| (34) | GCR (Dkt 4520) Nov 14-Oct 15 Actual | 54% | 13% | 23% | 5% | -15% | -68% | -78% | -17% | -6% | 2% | 2% | 43% | 4.2% |
| (35) | GCR (Dkt 4436) Nov 13-Oct 14 Actual | 48% | 22% | 10% | -5% | -8% | -57% | -82% | -27% | 4% | 10% | 14% | 38% | 2.7% |
| (36) | GCR (Dkt 4346) Nov 12-Oct 13 Actual | 52% | 18% | 17% | -4% | -3% | -51% | -59% | -11% | -14% | 13% | 1% | 44% | 6.1% |
| (37) | GCR (Dkt 4283) Nov 11-Oct 12 Actual | 23% | 32% | 21% | -5% | -30% | -43% | -35% | -12% | -4% | 6% | 14% | 16% | 2.9% |
| (38) | GCR (Dkt 4199) Nov 10-Oct 11 Actual | 40% | 33% | 11% | -7% | -14% | -54% | -43% | -25% | -9% | 8% | -2% | 43% | 4.3% |
| (39) | Historical Average | 42% | 23% | 17% | -3% | -9% | -53% | -52% | -24% | -7% | 7% | 8% | 36% | 3.9% |
| (40) | Fcst/Actual Nov 17-Oct 18 * | 1,533,220 | 3,123,009 | 5,720,779 | 4,627,445 | 4,077,839 | 2,878,555 | 1,568,022 | 912,469 | 630,861 | 561,730 | 630,438 | 787,624 | 27,051,990 |
| (41) | Fcst/Actual Nov 17-Oct 18* Sendout | 2,857,768 | 5,113,414 | 5,717,913 | 4,417,284 | 3,736,115 | 2,175,893 | 1,268,260 | 808,643 | 647,353 | 593,008 | 639,818 | 1,177,517 | 29,152,986 |
| (42) | UFG | 1,324,549 | 1,990,405 | (2,866) | (210,161) | (341,724) | (702,662) | (299,762) | (103,826) | 16,492 | 31,278 | 9,380 | 389,893 | 2,100,996 |
| (43) | UFG % | 46.3% | 38.9% | -0.1% | -4.8% | -9.1% | -32.3% | -23.6% | -12.8% | 2.5% | 5.3% | 1.5% | 33.1% | 7.2% |
| | Assume Annual UFG at 2016-17 Level | | | | | | | | | | | | | |
| (44) | Adjustment Increase in Sales | | | | | | | | | | | | | 925,000 |
| (45) | UFG | | | | | | | | | | | | | 1,175,996 |
| (46) | UFG % | | | | | | | | | | | | | 4.0% |

* - Nov 17-Jan 18 Actual data and Feb 18-Oct 18 forecasted data

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## Division 4-13

Request:

Re: National Grid's January 29, Interim Gas Cost Recovery Filing and Attachment AEL-5, to the testimony of Witness Leary. Please explain why the bottom section of Attachment AEL-5 shows volumes for the "Revised Filing" that are increased by essentially the same percentage (i.e., 57.9%) for all rate classes.

Response:

Since the Company only has a High Load Factor and Low Load Factor in its Gas Cost Recovery (GCR) Factors, and the High Load Factor classes represent only two percent of the total January 2018 forecasted sales, for simplicity, the Company has valued the estimated incremental sales volume uniformly across all rate classes based on each class' January forecasted sales as a percent of the total forecasted January 2018 sales. By spreading the estimated sales volume increase equally across all rate classes, the estimated incremental GCR revenue for January 2018 is $12,814,112. In Attachment DIV 4-13, the Company revalues the revenue from the estimated incremental volumes, but assuming they are applicable to only the Low Load Factor rate classes. By valuing the estimated revenue increase only from the Low Load Factor classes, the estimated incremental GCR revenue for January 2018 would have been $12,834,516, resulting in a difference of only $20,404 from the amount reflected in the Interim GCR filing. Therefore, this change would have negligible impact on the $34.4 million projected deferred balance.

Prepared by or under the supervision of: Ann E. Leary

| | Revised Jan 2018 Billing Forecast | Initial Filing | Incremental | January Allocator | Incremental Spread | Revised Filing |
|---|---|---|---|---|---|---|
| | | (a) | (b) | (c) = (a)/Ln 9(a) | (d) =(c) x Ln 9(b) | (e)=(a) + (d) |
| | **Sales & TSS THROUGHPUT** | | | | | |
| (1) | Residential Non-Heating | 49,465 | | 1.1% | 28,653 | 78,117 |
| (2) | Residential Heating | 3,187,357 | | 73.7% | 1,846,283 | 5,033,641 |
| (3) | Small C&I | 422,898 | | 9.8% | 244,964 | 667,862 |
| (4) | Medium C&I | 511,908 | | 11.8% | 296,524 | 808,432 |
| (5) | Large LLF | 110,073 | | 2.5% | 63,760 | 173,832 |
| (6) | Large HLF | 30,535 | | 0.7% | 17,688 | 48,223 |
| (7) | Extra Large LLF | 8,577 | | 0.2% | 4,968 | 13,546 |
| (8) | Extra Large HLF | 4,370 | | 0.1% | 2,532 | 6,902 |
| (9) | **Total Sales & TSS Throughput** | 4,325,184 | 2,505,371 | 100% | 2,505,371 | 6,830,555 |

| | | Initial Jan 18 FCST | Incremental Volumes | Approved GCR w/o Uncollectible | Incremental GCR Revenues |
|---|---|---|---|---|---|
| | | (f) | (g) | (h) | (i) = (h) x (g) |
| (10) | High Load Classes | 84,371 | 48,872 | 4.7053 | $229,957 |
| (11) | Low Load Classes | 4,240,813 | 2,456,499 | 5.1228 | $12,584,155 |
| (12) | Total | 4,325,184 | 2,505,371 | | $12,814,112 |

| | Revised Jan 2018 Billing Forecast | Initial Filing | Incremental | January Allocator | Incremental Spread | Revised Filing |
|---|---|---|---|---|---|---|
| | | (a) | (b) | (c) = (a)/Ln 23(a) | (d) =(c) x Ln 21(b) | (e)=(a) + (d) |
| | **Sales & TSS THROUGHPUT** | | | | | |
| (13) | Residential Non-Heating | 49,465 | | 0.0% | - | 49,465 |
| (14) | Residential Heating | 3,187,357 | | 75.2% | 1,883,015 | 5,070,372 |
| (15) | Small C&I | 422,898 | | 10.0% | 249,838 | 672,736 |
| (16) | Medium C&I | 511,908 | | 12.1% | 302,423 | 814,331 |
| (17) | Large LLF | 110,073 | | 2.6% | 65,028 | 175,101 |
| (18) | Large HLF | 30,535 | | 0.0% | - | 30,535 |
| (19) | Extra Large LLF | 8,577 | | 0.2% | 5,067 | 13,644 |
| (20) | Extra Large HLF | 4,370 | | 0.0% | - | 4,370 |
| (21) | **Total Sales & TSS Throughput** | 4,325,184 | 2,505,371 | 100% | 2,505,371 | 6,830,555 |

| | | Initial Jan 18 FCST | Incremental Volumes | Approved GCR w/o Uncollectible | Incremental GCR Revenues |
|---|---|---|---|---|---|
| | | (f) | (g) | (h) | (i) = (h) x (g) |
| (22) | High Load Classes | 84,371 | - | 4.7053 | $0 |
| (23) | Low Load Classes | 4,240,813 | 2,505,371 | 5.1228 | $12,834,516 |
| (24) | Total | 4,325,184 | 2,505,371 | | $12,834,516 |

Division 4-14

Request:

Re: National Grid's January 29, Interim Gas Cost Recovery Filing and Attachment AEL-5, to the testimony of Witness Leary. Please provide a comparison actual Sales and TSS Throughput by rate class and forecasted Sales by rate class for the month of **January 2018**.

Response:

Please see Attachment DIV 4-14.

Prepared by or under the supervision of: Ann E. Leary

National Grid - RI Gas
Actual vs. Forecast Throughput (Dth)
January 2018

| | | Original Forecast (a) | Revised Forecast (b) | Actual (c) | Revised Forecast vs. Actual (d) |
|---|---|---|---|---|---|
| | **Rate Class** | | | | |
| (1) | Residential Non-Heating | 49,465 | 78,118 | 56,362 | (21,756) |
| (2) | Residential Heating | 3,187,357 | 5,033,640 | 4,213,704 | (819,936) |
| (3) | Small C&I | 422,898 | 667,862 | 586,379 | (81,483) |
| (4) | Medium C&I | 511,908 | 808,432 | 662,226 | (146,206) |
| (5) | Large LLF | 110,073 | 173,833 | 155,787 | (18,046) |
| (6) | Large HLF | 30,535 | 48,223 | 30,568 | (17,656) |
| (7) | Extra Large LLF | 8,577 | 13,545 | 9,784 | (3,761) |
| (8) | Extra Large HLF | 4,370 | 6,902 | 5,969 | (933) |
| (9) | **Total Sales + TSS** | 4,325,184 | 6,830,556 | 5,720,779 | (1,109,777) |

(a) Original GCR Filing, Attachment AEL-1, Page 11, Lines (1)-(9), Column (d)
(b) Revised GCR Filing, Attachment AEL-5, Page 1, Lines (11)-(19)
(c) Company Records
(d) Column (c) - Column (b)

## Division 4-15

Request:

Re: National Grid's January 29, Interim Gas Cost Recovery Filing and the testimony of Witness Culliford at page 3, lines 1-4, please:

a. Update the table at the top of page 3 of Witness Culliford's testimony to include the Company's experience through at least the week of January 28, 2018.

b. Document the Company's assumptions regarding the distribution of design heating degree days across the days and weeks of the winter season.

Response:

a.

| 2017-18 Heating Degree Day Summary (T.F. Green Airport) | | | | | |
|---|---|---|---|---|---|
| | **ACTUAL** | **NORMAL** | **DESIGN** | **Actual vs. Normal** | **Actual vs. Design** |
| Week Ending 12/17 | 263 | 212 | 238 | 124% | 111% |
| Week Ending 12/24 | 200 | 191 | 214 | 105% | 93% |
| Week Ending 12/31 | 348 | 171 | 193 | 204% | 180% |
| Week Ending 1/7 | 351 | 219 | 238 | 160% | 147% |
| Week Ending 1/14 | 205 | 264 | 286 | 78% | 72% |
| Week Ending 1/21 | 231 | 263 | 284 | 88% | 81% |
| Week Ending 1/28 | 193 | 235 | 255 | 82% | 76% |
| Week Ending 2/4 | 244 | 237 | 259 | 103% | 94% |
| TOTAL | 2,035 | 1,792 | 1,967 | 114% | 103% |

b. The Company's weekly normal and design Heating Degree Days (HDD) are listed in the table in part (a) above for the weeks ending December 17, 2017 through February 4, 2018.

To establish the design year's daily HDD data, the Company began by calculating the average annual number of HDDs for KPVD (T.F. Green International Airport weather station) for the 40 calendar years of 1976 through 2015, with an average of 5,596.6 HDD and a standard deviation of 358.6 HDD. The Company then prepared a "Typical Meteorological Year" by selecting, for each calendar month, the month in the KPVD weather database that most closely approximated the average HDD and standard deviation for each month. Each actual month of weather was then adjusted so that its total HDD and standard deviation matches the 40-year average values. The Company's design year standard (6,280 HDD) was then defined using its design-year cost/benefit analysis. The Company's design year daily HDD were then derived by multiplying its 40-year normal year HDD daily data by the ratio of 6280/5596.6. The Company ensures that its design day (68 HDD) occurs within its design year.

The Company's methodology for determining its design standards were more fully documented in its 2016 Gas Long-Range Resource and Requirements Plan for the Forecast Period 2015/16 to 2024/25, filed with the Public Utilities Commission on March 10, 2016.

Prepared by or under the supervision of: Nancy G. Culliford and Theodore Poe Jr.

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Division 4-16

Request:

Re: National Grid's January 29, Interim Gas Cost Recovery Filing and the testimony of Witness Culliford at page 3, lines 6-7, please provide the data upon which the witness relies to assess that "From mid-December into January, the Northeast markets posted large increases in demand …."

Response:

Beginning December 11, 2017 through and including January 7, 2018, actual weather was colder than forecasted normal weather for all four weeks, and colder than forecasted design weather in three of the four weeks. During this time period, the Company monitored the conditions in the Northeast Gas Markets, via periodicals, long term weather forecasts, and conference calls with the Northeast Gas Association to stay up-to-date with the extended extreme cold. During the month of December 2017, the Northeast experienced a surge in home heating demand and drove U.S. Northeast demand levels to their highest point in nearly two years. During, the first week of January 2018, Northeast demand levels were estimated to be at around 35.5 billion cubic feet (Bcf) of gas per day, which is 30 percent higher than the five-year average. Heading into the weekend of January 5, 2018, demand was expected to peak. A three Bcf tanker arrived over the weekend at the ENGIE liquefied natural gas (LNG) terminal in Everett, Massachusetts. LNG Sendout, from the facility by pipeline average 750 million cubic feet (MMcf) per day for the first five days of January 2018. This was the highest sendout level since 2010.

The NYMEX February natural gas futures contract spiked after the U.S. Energy Information Association (EIA) announced an all-time high withdrawal from underground storage for the week ending January 5, 2018. The storage withdrawals obliterated the previous record of 288 Bcf in the week ending January 10, 2014 (Polar Vortex), according to EIA data. The record withdrawals from underground storage came as temperatures across much of the country were well below average for during of the week ending January 10, 2018.

Prepared by or under the supervision of: Nancy G. Culliford

Division 4-21

Request:

Re: National Grid's January 29, Interim Gas Cost Recovery Filing and the testimony of Witness Culliford, please:

a. Document by day for the period December 9, 2017 through January 16, 2018 the LNG sendout from Cumberland using portable facilities at that site.

b. Document the Company's projected use of LNG at Cumberland by month for the remainder of the 2017-2018 winter season.

Response:

a. Please see Table A below documenting by day for the period December 9, 2017 through January 16, 2018 for the sendout volumes (dekatherms) from the Cumberland liquefied natural gas (LNG) portable facilities.

Division 4-21, page 2

**Table A**
**December 9, 2017 to January 16, 2018 Cumberland Portable Usage**

| | | | | | |
|---|---|---|---|---|---|
| Saturday | 9-Dec-17 | 0 | Monday | 1-Jan-18 | 0 |
| Sunday | 10-Dec-17 | 0 | Tuesday | 2-Jan-18 | 0 |
| Monday | 11-Dec-17 | 0 | Wednesday | 3-Jan-18 | 0 |
| Tuesday | 12-Dec-17 | 0 | Thursday | 4-Jan-18 | 0 |
| Wednesday | 13-Dec-17 | 0 | Friday | 5-Jan-18 | 0 |
| Thursday | 14-Dec-17 | 0 | Saturday | 6-Jan-18 | 2,651 |
| Friday | 15-Dec-17 | 0 | Sunday | 7-Jan-18 | 455 |
| Saturday | 16-Dec-17 | 0 | Monday | 8-Jan-18 | 0 |
| Sunday | 17-Dec-17 | 0 | Tuesday | 9-Jan-18 | 0 |
| Monday | 18-Dec-17 | 0 | Wednesday | 10-Jan-18 | 0 |
| Tuesday | 19-Dec-17 | 0 | Thursday | 11-Jan-18 | 0 |
| Wednesday | 20-Dec-17 | 772 | Friday | 12-Jan-18 | 0 |
| Thursday | 21-Dec-17 | 902 | Saturday | 13-Jan-18 | 0 |
| Friday | 22-Dec-17 | 0 | Sunday | 14-Jan-18 | 0 |
| Saturday | 23-Dec-17 | 0 | Monday | 15-Jan-18 | 0 |
| Sunday | 24-Dec-17 | 0 | Tuesday | 16-Jan-18 | 0 |
| Monday | 25-Dec-17 | 0 | | | |
| Tuesday | 26-Dec-17 | 0 | **Total** | | **4,780** |
| Wednesday | 27-Dec-17 | 0 | | | |
| Thursday | 28-Dec-17 | 0 | | | |
| Friday | 29-Dec-17 | 0 | | | |
| Saturday | 30-Dec-17 | 0 | | | |
| Sunday | 31-Dec-17 | 0 | | | |

b. The Company contracted for an Annual Contract Quantity (ACQ) for the Cumberland portable LNG facility of 19,000 MMBtus. The remaining ACQ as of February 14, 2018 is 11,571 MMBtus. The Company also used volume prior to December 9, 2017 for testing. The Company plans to retain the 11,571 MMBtus for portable LNG usage in the event the Cumberland portable LNG facility is required to meet sendout requirements. If the volumes are not utilized at the portable facility, the liquid will be trucked to either the Exeter or Providence LNG facilities before the contract expires on March 31, 2018.

Prepared by or under the supervision of: Nancy G. Culliford

Division 4-22

Request:

Re: National Grid's January 29, Interim Gas Cost Recovery Filing, and the Testimony of Witness Culliford. Attachment NGC-2, page 3 of 17, provides a 01/08/2018 NYMEX Update. Please:

a. Provide the Company's actual average costs of gas for all pipeline supplies for:

   i. November 2017;
   ii. December 2017; and
   iii. January 2018.

b. Provide the actual volumes and actual average costs of gas for hedged supplies under the GPIP for:

   i. November 2017;
   ii. December 2017; and
   iii. January 2018

Response:

The average cost of gas is $2.4412 for November 2017, $4.3085 for December 2017, and $7.2961 for January 2018.

Under the Company's Gas Procurement Incentive Plan (GPIP), the actual volumes for hedged supplies are 1,880,000 dekatherms (Dth) for November 2017; 2,665,000 Dth for December 2017; and 3,020,000 Dth for January 2018. The actual average cost of gas for hedged supplies is $2.98 for November 2017, $3.11 for December 2017, and $3.20 for January 2018.

## Division 4-23

Request:

Re: National Grid's January 29, Interim Gas Cost Recovery Filing, and the Testimony of Witness Culliford, page 5 of 10, lines 1-7. Please provide the Company's LNG inventory at each LNG storage facility as of the end of the each gas day in the months of December 2017 and January 2018.

Response:
See the table below for usable (maximum storage quantity minus heel) inventories in MMBtu as of the end of each gas day.

| Date | Exeter, RI | Providence, RI | | Date | Exeter, RI | Providence, RI |
|---|---|---|---|---|---|---|
| 12/1/2017 | 167,159 | 577,910 | | 1/1/2018 | 121,009 | 312,148 |
| 12/2/2017 | 166,915 | 577,770 | | 1/2/2018 | 116,369 | 285,493 |
| 12/3/2017 | 166,915 | 577,439 | | 1/3/2018 | 115,881 | 284,913 |
| 12/4/2017 | 166,671 | 577,201 | | 1/4/2018 | 114,660 | 282,994 |
| 12/5/2017 | 166,426 | 576,501 | | 1/5/2018 | 107,090 | 234,611 |
| 12/6/2017 | 165,938 | 576,077 | | 1/6/2018 | 97,811 | 183,556 |
| 12/7/2017 | 165,938 | 575,636 | | 1/7/2018 | 93,904 | 172,662 |
| 12/8/2017 | 165,694 | 575,235 | | 1/8/2018 | 93,416 | 172,439 |
| 12/9/2017 | 165,450 | 574,581 | | 1/9/2018 | 92,439 | 172,189 |
| 12/10/2017 | 165,206 | 574,254 | | 1/10/2018 | 92,439 | 171,745 |
| 12/11/2017 | 164,961 | 573,818 | | 1/11/2018 | 92,195 | 171,494 |
| 12/12/2017 | 164,717 | 573,067 | | 1/12/2018 | 91,707 | 171,085 |
| 12/13/2017 | 164,473 | 562,244 | | 1/13/2018 | 90,974 | 171,028 |
| 12/14/2017 | 163,008 | 559,664 | | 1/14/2018 | 89,997 | 171,183 |
| 12/15/2017 | 162,031 | 556,258 | | 1/15/2018 | 90,242 | 158,293 |
| 12/16/2017 | 161,299 | 555,869 | | 1/16/2018 | 93,660 | 157,851 |
| 12/17/2017 | 161,299 | 554,834 | | 1/17/2018 | 94,148 | 157,497 |
| 12/18/2017 | 160,810 | 553,604 | | 1/18/2018 | 97,811 | 157,171 |
| 12/19/2017 | 160,566 | 552,759 | | 1/19/2018 | 100,986 | 156,625 |
| 12/20/2017 | 160,566 | 552,673 | | 1/20/2018 | 100,741 | 160,815 |
| 12/21/2017 | 160,322 | 552,587 | | 1/21/2018 | 101,474 | 165,156 |
| 12/22/2017 | 160,322 | 549,362 | | 1/22/2018 | 105,869 | 164,973 |
| 12/23/2017 | 160,078 | 548,580 | | 1/23/2018 | 109,044 | 164,553 |
| 12/24/2017 | 159,101 | 548,241 | | 1/24/2018 | 109,044 | 168,866 |
| 12/25/2017 | 158,613 | 547,997 | | 1/25/2018 | 113,439 | 168,730 |
| 12/26/2017 | 157,636 | 522,764 | | 1/26/2018 | 115,881 | 168,311 |
| 12/27/2017 | 154,706 | 511,787 | | 1/27/2018 | 115,392 | 172,508 |
| 12/28/2017 | 148,845 | 466,014 | | 1/28/2018 | 115,148 | 176,703 |
| 12/29/2017 | 143,229 | 435,592 | | 1/29/2018 | 114,171 | 180,638 |
| 12/30/2017 | 137,369 | 417,563 | | 1/30/2018 | 112,951 | 181,493 |
| 12/31/2017 | 129,799 | 368,109 | | 1/31/2018 | 112,706 | 185,266 |

Prepared by or under the supervision of: Nancy G. Culliford

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Division 4-25

Request:

The Company is proposing to recover approximately $22.8 million during the period March 2018 through October 2018 and deferring approximately $11.6 million for the period November 2018 through October 2019. Please provide GCR factors and resulting bill impacts for residential heating customers for the following:

a. If the projected $34.4 million was recovered 100% during the March 2018 through October 2018 period.

b. If the projected $34.4 million was recovered 75% during the March 2018 through October 2018 period and 25% was deferred to the November 2018 through October 2019 period.

c. If the projected $34.4 million was recovered 50% during the March 2018 through October 2018 period and 50% was deferred to the November 2018 through October 2019 period.

Response:

a. Please see the Company's response to Division 4-8.

b. Please see Attachment DIV 4-25(b).

c. Please see Attachment DIV 4-25(c).

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
Factors Effective March 1, 2018
Recovery of 75% of Projected Deferral Between March 1, 2018 and October 31, 2018

| | | Source | | | | FT-2 |
|---|---|---|---|---|---|---|
| | Description | Reference | Line # | High Load[1] | Low Load[2] | Mkter |
| | (a) | (b) | (c) | (d) | (e) | (f) |
| (1) | Fixed Cost Factor - $/dktherm | Approved Factor* | | $1.1342 | $1.5517 | |
| (2) | Variable Cost Factor -$/dktherm | Approved Factor | | $3.5711 | $3.5711 | |
| (3) | Total Gas Cost Recovery Charge- $/dktherm | Approved Factor | | $4.7053 | $5.1228 | |
| (4) | Surcharge Factor | Manual Input | | $2.5500 | $2.5500 | |
| (5) | Total Revised Gas Cost Recovery Charge | (3) + (4) | | $7.2553 | $7.6728 | |
| (6) | Uncollectible % | Docket 4323 | | 3.18% | 3.18% | |
| (7) | Total GCR Charge adjusted for Uncollectibles- $/dkdtherm | (5) ÷ [1 - (6)] | | $7.4935 | $7.9248 | |
| (8) | **GCR Charge on a per therm basis** | (7) ÷ 10 | | **$0.7493** | **$0.7924** | |
| (9) | Current rate effective 11/01/17* - $/therm | | | $0.4859 | $0.5291 | |
| (10) | Increase- $/therm | (8) - (9) | | $0.2634 | $0.2633 | |
| (11) | Percent Increase | (10) ÷ (9) | | 54.2% | 49.8% | |
| | **Calculation of 75% Deferral Recovery** | | | | | |
| (12) | Projected Deferral With No Rate Change | Page 2, (49)(l) | | $34,406,182 | | |
| (13) | Percentage of Deferral to Recover | Manual Input | | 75% | | |
| (14) | Remaining Deferral at October 31, 2018 | (12) x (1 - (13)) | | $8,601,546 | | |
| (15) | Remaining Deferral with Surcharge in Line (4) | Page 3, (49)(l) | | $8,606,246 | | |

* GCR rates approved with the Rebuttal GCR filing per Docket No. 4719 filed on October 23, 2017

[1] Includes: Residential Non Heating, Large High Load and Extra Large High Load

[2] Includes: Residential Heating, Small C&I, Medium C&I, Large Low Load, Extra Large Low Load

National Grid
Rhode Island - Gas

Schedule 1
Page 1 of 1

Deferred Gas Cost Balances

| | Description | Reference | Nov Actual | Dec Actual | Jan Forecast | Feb Forecast | Mar Forecast | Apr Forecast | May Forecast | Jun Forecast | Jul Forecast | Aug Forecast | Sep Forecast | Oct Forecast | Nov-Oct |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (1) | # of Days in Month | | 30 | 31 | 31 | 28 | 31 | 30 | 31 | 30 | 31 | 31 | 30 | 31 | 365 |
| | | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) | (m) |
| (2) | I. Fixed Cost Deferred | | | | | | | | | | | | | | |
| (3) | Beginning Under/(Over) Recovery | | $1,106,719 | $2,186,800 | $518,946 | ($5,184,717) | ($7,502,087) | ($8,961,811) | ($10,154,962) | ($9,323,349) | ($7,474,277) | ($5,189,363) | ($2,795,395) | ($502,619) | $1,106,719 |
| (4) | Supply Fixed Costs (net of cap rel) | Sch. 2, line (31) | $4,342,453 | $4,432,787 | $6,108,532 | $6,106,396 | $6,108,532 | $4,531,059 | $4,531,771 | $4,531,059 | $4,531,771 | $4,531,771 | $4,530,656 | $4,531,368 | $58,818,154 |
| (5) | System Pressure to DAC | Dkt 4719 | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($3,153,600) |
| (6) | Supply Related LNG O & M | Dkt 4323 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $575,581 |
| (7) | NGPMP Credits | | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($10,900,000) |
| (8) | Working Capital | Sch. 4, line (15) | $23,513 | $24,034 | $29,296 | $29,286 | $29,296 | $21,391 | $21,394 | $21,391 | $21,394 | $21,394 | $21,389 | $21,392 | $285,170 |
| (9) | Total Supply Fixed Costs | Sum[(4):(8)] | $3,242,798 | $3,333,652 | $5,014,660 | $5,012,513 | $5,014,660 | $3,429,281 | $3,429,997 | $3,429,281 | $3,429,997 | $3,429,997 | $3,428,876 | $3,429,592 | $45,625,304 |
| (10) | Supply Fixed - Revenue | Sch. 3, line 13 | $2,201,823 | $5,004,233 | $10,713,375 | $7,317,730 | $6,456,923 | $4,602,813 | $2,577,727 | $1,562,969 | $1,131,653 | $1,027,561 | $1,132,715 | $1,373,589 | $45,103,110 |
| (11) | Monthly Under/(Over) Recovery | (9) - (10) | $1,040,975 | ($1,670,580) | ($5,698,715) | ($2,305,217) | ($1,442,263) | ($1,173,532) | $852,270 | $1,866,312 | $2,298,344 | $2,402,436 | $2,296,161 | $2,056,003 | $522,195 |
| (12) | Prelim. Ending Under/(Over) Recovery | (3) + (11) | $2,147,693 | $516,220 | ($5,179,769) | ($7,489,934) | ($8,944,350) | ($10,135,342) | ($9,302,692) | ($7,457,037) | ($5,175,933) | ($2,786,927) | ($499,234) | $1,553,384 | $1,628,914 |
| (13) | Month's Average Balance | [(3) + (12)] / 2 | $1,627,206 | $1,351,510 | ($2,330,411) | ($6,337,325) | ($8,223,219) | ($9,548,576) | ($9,728,827) | ($8,390,193) | ($6,325,105) | ($3,988,145) | ($1,647,315) | $525,383 | |
| (14) | Interest Rate (BOA Prime minus 200 bps) | | 2.25% | 2.38% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | |
| (15) | Interest Applied | [(13) x (14)] / 365 x (1) | $3,009 | $2,726 | ($4,948) | ($12,154) | ($17,460) | ($19,620) | ($20,657) | ($17,240) | ($13,430) | ($8,468) | ($3,385) | $1,116 | ($110,512) |
| (16) | Marketer Reconcilation | Dkt 4719, AEL-7, Line (50) | $36,098 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $36,098 |
| (17) | Fixed Ending Under/(Over) Recovery | (12) + (15) + (16) | $2,186,800 | $518,946 | ($5,184,717) | ($7,502,087) | ($8,961,811) | ($10,154,962) | ($9,323,349) | ($7,474,277) | ($5,189,363) | ($2,795,395) | ($502,619) | $1,554,499 | $1,554,499 |
| (18) | II. Variable Cost Deferred | | | | | | | | | | | | | | |
| (19) | Beginning Under/(Over) Recovery | | $13,703,849 | $17,445,473 | $29,443,058 | $46,180,590 | $45,191,882 | $42,184,163 | $37,455,008 | $35,171,386 | $34,062,004 | $33,566,278 | $33,195,191 | $32,634,373 | $13,703,849 |
| (20) | Variable Supply Costs | Sch. 2, line (77) | $8,944,909 | $22,922,438 | $40,745,661 | $15,290,402 | $11,335,821 | $5,367,623 | $3,135,675 | $1,967,716 | $1,569,660 | $1,440,572 | $1,482,780 | $2,802,607 | $117,005,862 |
| (21) | Supply Related LNG to DAC | Dkt 4339 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| (22) | Supply Related LNG O & M | Dkt 4323 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $572,694 |
| (23) | Inventory Financing - LNG | Sch. 5, line (22) | $32,062 | $21,879 | $8,917 | $3,681 | $3,129 | $7,665 | $12,330 | $16,871 | $18,512 | $19,401 | $23,928 | $24,809 | $193,185 |
| (24) | Inventory Financing - UG | Sch. 5, line (12) | $80,793 | $69,463 | $43,426 | $30,391 | $18,503 | $18,804 | $27,475 | $35,906 | $41,657 | $49,189 | $61,111 | $71,358 | $548,077 |
| (25) | Working Capital | Sch. 4, line (30) | $51,554 | $132,114 | $204,200 | $76,629 | $56,810 | $26,900 | $15,715 | $9,861 | $7,866 | $7,220 | $7,431 | $14,045 | $610,345 |
| (26) | Total Supply Variable Costs | Sum[(20):(25)] | $9,157,042 | $23,193,618 | $41,049,928 | $15,448,828 | $11,461,987 | $5,468,717 | $3,238,919 | $2,078,078 | $1,685,420 | $1,564,106 | $1,622,975 | $2,960,545 | $118,930,162 |
| (27) | Supply Variable - Revenue | Sch. 3, line (30) | $5,444,194 | $11,243,274 | $24,392,597 | $16,525,069 | $14,562,370 | $10,279,609 | $5,599,562 | $3,258,518 | $2,252,867 | $2,005,995 | $2,251,356 | $2,812,684 | $100,628,096 |
| (28) | Monthly Under/(Over) Recovery | (26) - (27) | $3,712,848 | $11,950,343 | $16,657,331 | ($1,076,241) | ($3,100,383) | ($4,810,892) | ($2,360,643) | ($1,180,440) | ($567,447) | ($441,889) | ($628,381) | $147,861 | $18,302,067 |
| (29) | Prelim. Ending Under/(Over) Recovery | (19) + (28) | $17,416,697 | $29,395,816 | $46,100,390 | $45,104,349 | $42,091,499 | $37,373,271 | $35,094,365 | $33,990,947 | $33,494,557 | $33,124,389 | $32,566,810 | $32,782,234 | $32,005,916 |
| (30) | Month's Average Balance | [(19) + (29)] / 2 | $15,560,273 | $23,420,644 | $37,771,724 | $45,642,469 | $43,641,691 | $39,778,717 | $36,274,686 | $34,581,166 | $33,778,280 | $33,345,333 | $32,881,000 | $32,708,304 | |
| (31) | Interest Rate (BOA Prime minus 200 bps) | | 2.25% | 2.38% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | |
| (32) | Interest Applied | [(30) x (31)] / 365 x (1) | $28,776 | $47,242 | $80,200 | $87,534 | $92,664 | $81,737 | $77,022 | $71,057 | $71,721 | $70,802 | $67,564 | $69,449 | $845,767 |
| (33) | Gas Procurement Incentive/(penalty) | | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| (34) | Variable Ending Under/(Over) Recovery | (29) + (32) + (33) | $17,445,473 | $29,443,058 | $46,180,590 | $45,191,882 | $42,184,163 | $37,455,008 | $35,171,386 | $34,062,004 | $33,566,278 | $33,195,191 | $32,634,373 | $32,851,683 | $32,851,683 |
| (35) | **GCR Deferred Summary** | | | | | | | | | | | | | | |
| (36) | Beginning Under/(Over) Recovery | (3) + (19) | $14,810,568 | $19,632,273 | $29,962,005 | $40,995,873 | $37,689,795 | $33,222,353 | $27,300,045 | $25,848,037 | $26,587,727 | $28,376,915 | $30,399,796 | $32,131,754 | $14,810,568 |
| (37) | Gas Costs | Sum[(4):(6),(16),(20):(22)] | $13,156,349 | $27,188,114 | $46,687,083 | $21,229,687 | $17,277,242 | $9,731,571 | $7,500,335 | $6,331,664 | $5,934,321 | $5,805,232 | $5,846,325 | $7,166,864 | $173,854,788 |
| (38) | Inventory Finance | (23) + (24) | $112,855 | $91,342 | $52,343 | $34,072 | $21,632 | $26,469 | $39,805 | $52,777 | $60,169 | $68,590 | $85,040 | $96,167 | $741,261 |
| (39) | Working Capital | (8) + (25) | $75,067 | $156,147 | $233,496 | $105,914 | $86,106 | $48,291 | $37,109 | $31,252 | $29,261 | $28,614 | $28,820 | $35,438 | $895,514 |
| (40) | NGPMP Credits | (7) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($10,900,000) |
| (41) | Total Costs | Sum[(37):(40)] | $12,435,937 | $26,527,270 | $46,064,589 | $20,461,341 | $16,476,647 | $8,897,998 | $6,668,916 | $5,507,360 | $5,115,417 | $4,994,103 | $5,051,851 | $6,390,136 | $164,591,565 |
| (42) | Revenue | (10) + (27) | $7,646,017 | $16,247,507 | $35,105,972 | $23,842,799 | $21,019,293 | $14,882,422 | $8,177,289 | $4,821,487 | $3,384,520 | $3,033,556 | $3,384,071 | $4,186,273 | $145,731,205 |
| (43) | Monthly Under/(Over) Recovery | (41) - (42) | $4,789,920 | $10,279,763 | $10,958,617 | ($3,381,458) | ($4,542,646) | ($5,984,424) | ($1,508,373) | $685,873 | $1,730,897 | $1,960,547 | $1,667,780 | $2,203,863 | $18,860,359 |
| (44) | Prelim. Ending Under/(Over) Recovery | (36) + (43) | $19,600,488 | $29,912,036 | $40,920,621 | $37,614,415 | $33,147,149 | $27,237,928 | $25,791,672 | $26,533,909 | $28,318,624 | $30,337,462 | $32,067,576 | $34,335,618 | |
| (45) | Month's Average Balance | [(36) + (44)] / 2 | $17,205,528 | $24,772,154 | $35,441,313 | $39,305,144 | $35,418,472 | $30,230,141 | $26,545,859 | $26,190,973 | $27,453,175 | $29,357,188 | $31,233,686 | $33,233,686 | |
| (46) | Interest Rate (BOA Prime minus 200 bps) | | 2.25% | 2.38% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | |
| (47) | Interest Applied | (15) + (32) | $31,785 | $49,968 | $75,252 | $75,380 | $75,204 | $62,117 | $56,364 | $53,817 | $58,291 | $62,334 | $64,179 | $70,565 | $735,256 |
| (48) | Gas Purchase Plan Incentives/(Penalties) | (33) | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| **(49)** | **Ending Under/(Over) Recovery W/ Interest** | (44) + (47) + (48) | $19,632,273 | $29,962,005 | $40,995,873 | $37,689,795 | $33,222,353 | $27,300,045 | $25,848,037 | $26,587,727 | $28,376,915 | $30,399,796 | $32,131,754 | $\boxed{\$34,406,182}$ | $34,406,182 |

National Grid
Rhode Island - Gas

Schedule 1
Page 1 of 1

Deferred Gas Cost Balances

| | Description | Reference | Nov Actual | Dec Actual | Jan Forecast | Feb Forecast | Mar Forecast | Apr Forecast | May Forecast | Jun Forecast | Jul Forecast | Aug Forecast | Sep Forecast | Oct Forecast | Nov-Oct |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (1) | # of Days in Month | | 30 | 31 | 31 | 28 | 31 | 30 | 31 | 30 | 31 | 31 | 30 | 31 | 365 |
| | | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) | (m) |
| (2) | I. Fixed Cost Deferred | | | | | | | | | | | | | | |
| (3) | Beginning Under/(Over) Recovery | | $1,106,719 | $2,186,800 | $518,946 | ($5,184,717) | ($7,502,087) | ($8,961,811) | ($10,154,962) | ($9,323,349) | ($7,474,277) | ($5,189,363) | ($2,795,395) | ($502,619) | $1,106,719 |
| (4) | Supply Fixed Costs (net of cap rel) | Sch. 2, line (31) | $4,342,453 | $4,432,787 | $6,108,532 | $6,106,396 | $6,108,532 | $4,531,059 | $4,531,771 | $4,531,059 | $4,531,771 | $4,531,771 | $4,530,656 | $4,531,368 | $58,818,154 |
| (5) | System Pressure to DAC | Dkt 4719 | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($3,153,600) |
| (6) | Supply Related LNG O & M | Dkt 4323 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $575,581 |
| (7) | NGPMP Credits | | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($10,900,000) |
| (8) | Working Capital | Sch. 4, line (15) | $23,513 | $24,034 | $29,296 | $29,286 | $29,296 | $21,391 | $21,394 | $21,391 | $21,394 | $21,394 | $21,389 | $21,392 | $285,170 |
| (9) | Total Supply Fixed Costs | Sum[(4):(8)] | $3,242,798 | $3,333,652 | $5,014,660 | $5,012,513 | $5,014,660 | $3,429,281 | $3,429,997 | $3,429,281 | $3,429,997 | $3,429,997 | $3,428,876 | $3,429,592 | $45,625,304 |
| (10) | Supply Fixed - Revenue | Sch. 3, line 13 | $2,201,823 | $5,004,233 | $10,713,375 | $7,317,730 | $6,456,923 | $4,602,813 | $2,577,727 | $1,562,969 | $1,131,653 | $1,027,561 | $1,132,715 | $1,373,589 | $45,103,110 |
| (11) | Monthly Under/(Over) Recovery | (9) - (10) | $1,040,975 | ($1,670,580) | ($5,698,715) | ($2,305,217) | ($1,442,263) | ($1,173,532) | $852,270 | $1,866,312 | $2,298,344 | $2,402,436 | $2,296,161 | $2,056,003 | $522,195 |
| (12) | Prelim. Ending Under/(Over) Recovery | (3) + (11) | $2,147,693 | $516,220 | ($5,179,769) | ($7,489,934) | ($8,944,350) | ($10,135,342) | ($9,302,692) | ($7,457,037) | ($5,175,933) | ($2,786,927) | ($499,234) | $1,553,384 | $1,628,914 |
| (13) | Month's Average Balance | [(3) + (12)] / 2 | $1,627,206 | $1,351,510 | ($2,330,411) | ($6,337,325) | ($8,223,219) | ($9,548,576) | ($9,728,827) | ($8,390,193) | ($6,325,105) | ($3,988,145) | ($1,647,315) | $525,383 | |
| (14) | Interest Rate (BOA Prime minus 200 bps) | | 2.25% | 2.38% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | |
| (15) | Interest Applied | [(13) x (14)] / 365 x (1) | $3,009 | $2,726 | ($4,948) | ($12,154) | ($17,460) | ($19,620) | ($20,657) | ($17,240) | ($13,430) | ($8,468) | ($3,385) | $1,116 | ($110,512) |
| (16) | Marketer Reconcilation | Dkt 4719, AEL-7, Line (50) | $36,098 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $36,098 |
| (17) | Fixed Ending Under/(Over) Recovery | (12) + (15) + (16) | $2,186,800 | $518,946 | ($5,184,717) | ($7,502,087) | ($8,961,811) | ($10,154,962) | ($9,323,349) | ($7,474,277) | ($5,189,363) | ($2,795,395) | ($502,619) | $1,554,499 | $1,554,499 |
| (18) | II. Variable Cost Deferred | | | | | | | | | | | | | | |
| (19) | Beginning Under/(Over) Recovery | | $13,703,849 | $17,445,473 | $29,443,058 | $46,180,590 | $45,191,882 | $36,979,399 | $24,891,691 | $18,578,693 | $15,106,030 | $12,959,653 | $11,110,878 | $8,895,414 | $13,703,849 |
| (20) | Variable Supply Costs | Sch. 2, line (77) | $8,944,909 | $22,922,438 | $40,745,661 | $15,290,402 | $11,335,821 | $5,367,623 | $3,135,675 | $1,967,716 | $1,569,660 | $1,440,572 | $1,482,780 | $2,802,607 | $117,005,862 |
| (21) | Supply Related LNG to DAC | Dkt 4339 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| (22) | Supply Related LNG O & M | Dkt 4323 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $572,694 |
| (23) | Inventory Financing - LNG | Sch. 5, line (22) | $32,062 | $21,879 | $8,917 | $3,681 | $3,129 | $7,665 | $12,330 | $16,871 | $18,512 | $19,401 | $23,928 | $24,809 | $193,185 |
| (24) | Inventory Financing - UG | Sch. 5, line (12) | $80,793 | $69,463 | $43,426 | $30,391 | $18,503 | $18,804 | $27,475 | $35,906 | $41,657 | $49,189 | $61,111 | $71,358 | $548,077 |
| (25) | Working Capital | Sch. 4, line (30) | $51,554 | $132,114 | $204,200 | $76,629 | $56,810 | $26,900 | $15,715 | $9,861 | $7,866 | $7,220 | $7,431 | $14,045 | $610,345 |
| (26) | Total Supply Variable Costs | Sum[(20):(25)] | $9,157,042 | $23,193,618 | $41,049,928 | $15,448,828 | $11,461,987 | $5,468,717 | $3,238,919 | $2,078,078 | $1,685,420 | $1,564,106 | $1,622,975 | $2,960,545 | $118,930,162 |
| (27) | Supply Variable - Revenue | Sch. 3, line (30) | $5,444,194 | $11,243,275 | $24,392,597 | $16,525,069 | $19,761,614 | $17,619,925 | $9,598,018 | $5,585,314 | $3,861,561 | $3,438,408 | $3,858,972 | $4,821,125 | $126,150,072 |
| (28) | Monthly Under/(Over) Recovery | (26) - (27) | $3,712,848 | $11,950,343 | $16,657,331 | ($1,076,241) | ($8,299,627) | ($12,151,208) | ($6,359,099) | ($3,507,236) | ($2,176,141) | ($1,874,302) | ($2,235,997) | ($1,860,580) | ($7,219,910) |
| (29) | Prelim. Ending Under/(Over) Recovery | (19) + (28) | $17,416,697 | $29,395,816 | $46,100,389 | $45,104,348 | $36,892,255 | $24,828,190 | $18,532,592 | $15,071,458 | $12,929,889 | $11,085,351 | $8,874,881 | $7,034,834 | $6,483,939 |
| (30) | Month's Average Balance | [(19) + (29)] / 2 | $15,560,273 | $23,420,644 | $37,771,724 | $45,642,469 | $41,042,068 | $30,903,795 | $21,712,142 | $16,825,075 | $14,017,959 | $12,022,502 | $9,992,880 | $7,965,124 | |
| (31) | Interest Rate (BOA Prime minus 200 bps) | | 2.25% | 2.38% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | |
| (32) | Interest Applied | [(30) x (31)] / 365 x (1) | $28,776 | $47,242 | $80,200 | $87,534 | $87,144 | $63,501 | $46,101 | $34,572 | $29,764 | $25,527 | $20,533 | $16,912 | $567,807 |
| (33) | Gas Procurement Incentive/(penalty) | | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| (34) | Variable Ending Under/(Over) Recovery | (29) + (32) + (33) | $17,445,473 | $29,443,058 | $46,180,590 | $45,191,882 | $36,979,399 | $24,891,691 | $18,578,693 | $15,106,030 | $12,959,653 | $11,110,878 | $8,895,414 | $7,051,746 | $7,051,746 |
| (35) | **GCR Deferred Summary** | | | | | | | | | | | | | | |
| (36) | Beginning Under/(Over) Recovery | (3) + (19) | $14,810,568 | $19,632,273 | $29,962,004 | $40,995,873 | $37,689,794 | $28,017,588 | $14,736,729 | $9,255,344 | $7,631,752 | $7,770,290 | $8,315,483 | $8,392,796 | $14,810,568 |
| (37) | Gas Costs | Sum[(4):(6),(16),(20):(22)] | $13,156,349 | $27,188,114 | $46,687,083 | $21,229,687 | $17,277,242 | $9,731,571 | $7,500,335 | $6,331,664 | $5,934,321 | $5,805,232 | $5,846,325 | $7,166,864 | $173,854,788 |
| (38) | Inventory Finance | (23) + (24) | $112,855 | $91,342 | $52,343 | $34,072 | $21,632 | $26,469 | $39,805 | $52,777 | $60,169 | $68,590 | $85,040 | $96,167 | $741,261 |
| (39) | Working Capital | (8) + (25) | $75,067 | $156,147 | $233,496 | $105,914 | $86,106 | $48,291 | $37,109 | $31,252 | $29,261 | $28,614 | $28,820 | $35,438 | $895,514 |
| (40) | NGPMP Credits | (7) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($10,900,000) |
| (41) | Total Costs | Sum[(37):(40)] | $12,435,937 | $26,527,270 | $46,064,589 | $20,461,341 | $16,476,647 | $8,897,998 | $6,668,916 | $5,507,360 | $5,115,417 | $4,994,103 | $5,051,851 | $6,390,136 | $164,591,565 |
| (42) | Revenue | (10) + (27) | $7,646,018 | $16,247,507 | $35,105,972 | $23,842,799 | $26,218,537 | $22,222,738 | $12,175,745 | $7,148,283 | $4,993,214 | $4,465,969 | $4,991,687 | $6,194,714 | $171,253,182 |
| (43) | Monthly Under/(Over) Recovery | (41) - (42) | $4,789,920 | $10,279,763 | $10,958,617 | ($3,381,458) | ($9,741,890) | ($13,324,740) | ($5,506,829) | ($1,640,923) | $122,203 | $528,134 | $60,164 | $195,422 | ($6,661,617) |
| (44) | Prelim. Ending Under/(Over) Recovery | (36) + (43) | $19,600,488 | $29,912,035 | $40,920,621 | $37,614,415 | $27,947,904 | $14,692,848 | $9,229,900 | $7,614,420 | $7,753,956 | $8,298,424 | $8,375,647 | $8,588,218 | |
| (45) | Month's Average Balance | [(36) + (44)] / 2 | $17,205,528 | $24,772,154 | $35,441,312 | $39,305,144 | $32,818,849 | $21,355,218 | $11,983,314 | $8,434,882 | $7,692,854 | $8,034,357 | $8,345,565 | $8,490,507 | |
| (46) | Interest Rate (BOA Prime minus 200 bps) | | 2.25% | 2.38% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | |
| (47) | Interest Applied | (15) + (32) | $31,785 | $49,968 | $75,252 | $75,380 | $69,684 | $43,881 | $25,444 | $17,332 | $16,334 | $17,059 | $17,148 | $18,028 | $457,295 |
| (48) | Gas Purchase Plan Incentives/(Penalties) | (33) | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| **(49)** | **Ending Under/(Over) Recovery W/ Interest** | (44) + (47) + (48) | $19,632,273 | $29,962,004 | $40,995,873 | $37,689,794 | $28,017,588 | $14,736,729 | $9,255,344 | $7,631,752 | $7,770,290 | $8,315,483 | $8,392,796 | $\boxed{\$8,606,246}$ | $8,606,246 |

National Grid - RI Gas
Interim Gas Cost Recovery Filing
Bill Impact Analysis with Various Levels of Consumption:

**Residential Heating:**

| Line | | Annual Consumption (Therms) | Mar- Oct Proposed Rates | Mar- Oct Current Rates | Mar- Oct Difference | % Chg | Difference due to: Base Rates | GCR | DAC: Base DAC | DAC: ISR | EE | LIHEAP | GET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (5) | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
| (6) | | | | | | | | | | | | | |
| (7) | | 258 | $509.39 | $439.35 | $70.04 | 15.9% | $0.00 | $67.94 | $0.00 | $0.00 | $0.00 | $0.00 | $2.10 |
| (8) | | 285 | $550.33 | $472.98 | $77.35 | 16.4% | $0.00 | $75.03 | $0.00 | $0.00 | $0.00 | $0.00 | $2.32 |
| (9) | | 313 | $592.68 | $507.70 | $84.98 | 16.7% | $0.00 | $82.43 | $0.00 | $0.00 | $0.00 | $0.00 | $2.55 |
| (10) | | 340 | $633.58 | $541.28 | $92.30 | 17.1% | $0.00 | $89.53 | $0.00 | $0.00 | $0.00 | $0.00 | $2.77 |
| (11) | | 369 | $676.76 | $576.60 | $100.16 | 17.4% | $0.00 | $97.16 | $0.00 | $0.00 | $0.00 | $0.00 | $3.00 |
| (12) | **Average Customer** | **396** | **$716.03** | **$608.52** | **$107.52** | **17.7%** | $0.00 | $104.29 | $0.00 | $0.00 | $0.00 | $0.00 | $3.23 |
| (13) | | 422 | $753.52 | $638.96 | $114.56 | 17.9% | $0.00 | $111.12 | $0.00 | $0.00 | $0.00 | $0.00 | $3.44 |
| (14) | | 452 | $796.84 | $674.16 | $122.68 | 18.2% | $0.00 | $119.00 | $0.00 | $0.00 | $0.00 | $0.00 | $3.68 |
| (15) | | 479 | $835.70 | $705.68 | $130.02 | 18.4% | $0.00 | $126.12 | $0.00 | $0.00 | $0.00 | $0.00 | $3.90 |
| (16) | | 505 | $873.09 | $736.02 | $137.07 | 18.6% | $0.00 | $132.96 | $0.00 | $0.00 | $0.00 | $0.00 | $4.11 |
| (17) | | 537 | $918.45 | $772.67 | $145.78 | 18.9% | $0.00 | $141.41 | $0.00 | $0.00 | $0.00 | $0.00 | $4.37 |

**Residential Heating Low Income:**

| Line | | Annual Consumption (Therms) | Mar- Oct Proposed Rates | Mar- Oct Current Rates | Mar- Oct Difference | % Chg | Difference due to: Base Rates | GCR | DAC: Base DAC | DAC: ISR | EE | LIHEAP | GET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (22) | | 258 | $486.32 | $416.28 | $70.04 | 16.8% | $0.00 | $67.94 | $0.00 | $0.00 | $0.00 | $0.00 | $2.10 |
| (23) | | 285 | $526.01 | $448.65 | $77.35 | 17.2% | $0.00 | $75.03 | $0.00 | $0.00 | $0.00 | $0.00 | $2.32 |
| (24) | | 313 | $567.07 | $482.09 | $84.98 | 17.6% | $0.00 | $82.43 | $0.00 | $0.00 | $0.00 | $0.00 | $2.55 |
| (25) | | 340 | $606.73 | $514.43 | $92.30 | 17.9% | $0.00 | $89.53 | $0.00 | $0.00 | $0.00 | $0.00 | $2.77 |
| (26) | | 369 | $648.65 | $548.49 | $100.16 | 18.3% | $0.00 | $97.16 | $0.00 | $0.00 | $0.00 | $0.00 | $3.00 |
| (27) | **Average Customer** | **396** | **$686.84** | **$579.32** | **$107.52** | **18.6%** | $0.00 | $104.29 | $0.00 | $0.00 | $0.00 | $0.00 | $3.23 |
| (28) | | 422 | $723.32 | $608.76 | $114.56 | 18.8% | $0.00 | $111.12 | $0.00 | $0.00 | $0.00 | $0.00 | $3.44 |
| (29) | | 452 | $765.47 | $642.79 | $122.68 | 19.1% | $0.00 | $119.00 | $0.00 | $0.00 | $0.00 | $0.00 | $3.68 |
| (30) | | 479 | $803.29 | $673.27 | $130.02 | 19.3% | $0.00 | $126.12 | $0.00 | $0.00 | $0.00 | $0.00 | $3.90 |
| (31) | | 505 | $839.68 | $702.61 | $137.07 | 19.5% | $0.00 | $132.96 | $0.00 | $0.00 | $0.00 | $0.00 | $4.11 |
| (32) | | 537 | $883.88 | $738.10 | $145.78 | 19.8% | $0.00 | $141.41 | $0.00 | $0.00 | $0.00 | $0.00 | $4.37 |

National Grid - RI Gas
Interim Gas Cost Recovery Filing
Bill Impact Analysis with Various Levels of Consumption:

**Residential Non-Heating:**

| Line | | Annual Consumption (Therms) | Mar- Oct Proposed Rates | Mar- Oct Current Rates | Mar- Oct Difference | % Chg | Difference due to: Base Rates | GCR | DAC Base DAC | DAC ISR | EE | LIHEAP | GET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (33)–(37) | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
| (38) | | | | | | | | | | | | | |
| (39) | | 77 | $234.07 | $213.17 | $20.91 | 9.8% | $0.00 | $20.28 | $0.00 | $0.00 | $0.00 | $0.00 | $0.63 |
| (40) | | 86 | $248.11 | $224.76 | $23.35 | 10.4% | $0.00 | $22.65 | $0.00 | $0.00 | $0.00 | $0.00 | $0.70 |
| (41) | | 95 | $262.15 | $236.38 | $25.77 | 10.9% | $0.00 | $25.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.77 |
| (42) | | 102 | $273.06 | $245.37 | $27.69 | 11.3% | $0.00 | $26.86 | $0.00 | $0.00 | $0.00 | $0.00 | $0.83 |
| (43) | | 109 | $283.98 | $254.39 | $29.59 | 11.6% | $0.00 | $28.70 | $0.00 | $0.00 | $0.00 | $0.00 | $0.89 |
| (44) | **Average Customer** | 119 | **$299.15** | **$266.89** | **$32.27** | **12.1%** | $0.00 | $31.30 | $0.00 | $0.00 | $0.00 | $0.00 | $0.97 |
| (45) | | 126 | $310.52 | $276.31 | $34.21 | 12.4% | $0.00 | $33.18 | $0.00 | $0.00 | $0.00 | $0.00 | $1.03 |
| (46) | | 135 | $324.56 | $287.90 | $36.66 | 12.7% | $0.00 | $35.56 | $0.00 | $0.00 | $0.00 | $0.00 | $1.10 |
| (47) | | 143 | $337.07 | $298.24 | $38.84 | 13.0% | $0.00 | $37.67 | $0.00 | $0.00 | $0.00 | $0.00 | $1.17 |
| (48) | | 153 | $352.65 | $311.08 | $41.57 | 13.4% | $0.00 | $40.32 | $0.00 | $0.00 | $0.00 | $0.00 | $1.25 |
| (49) | | 160 | $363.57 | $320.14 | $43.43 | 13.6% | $0.00 | $42.13 | $0.00 | $0.00 | $0.00 | $0.00 | $1.30 |

**Residential Non-Heating Low Income:**

| Line | | Annual Consumption (Therms) | Mar- Oct Proposed Rates | Mar- Oct Current Rates | Mar- Oct Difference | % Chg | Difference due to: Base Rates | GCR | DAC Base DAC | DAC ISR | EE | LIHEAP | GET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (50)–(53) | | | | | | | | | | | | | |
| (54) | | 77 | $219.87 | $198.96 | $20.91 | 10.5% | $0.00 | $20.28 | $0.00 | $0.00 | $0.00 | $0.00 | $0.63 |
| (55) | | 86 | $233.50 | $210.15 | $23.35 | 11.1% | $0.00 | $22.65 | $0.00 | $0.00 | $0.00 | $0.00 | $0.70 |
| (56) | | 95 | $247.13 | $221.36 | $25.77 | 11.6% | $0.00 | $25.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.77 |
| (57) | | 102 | $257.72 | $230.03 | $27.69 | 12.0% | $0.00 | $26.86 | $0.00 | $0.00 | $0.00 | $0.00 | $0.83 |
| (58) | | 109 | $268.32 | $238.73 | $29.59 | 12.4% | $0.00 | $28.70 | $0.00 | $0.00 | $0.00 | $0.00 | $0.89 |
| (59) | **Average Customer** | **119** | **$283.06** | **$250.79** | **$32.27** | **12.9%** | $0.00 | $31.30 | $0.00 | $0.00 | $0.00 | $0.00 | $0.97 |
| (60) | | 126 | $294.10 | $259.89 | $34.21 | 13.2% | $0.00 | $33.18 | $0.00 | $0.00 | $0.00 | $0.00 | $1.03 |
| (61) | | 135 | $307.73 | $271.07 | $36.66 | 13.5% | $0.00 | $35.56 | $0.00 | $0.00 | $0.00 | $0.00 | $1.10 |
| (62) | | 143 | $319.88 | $281.04 | $38.84 | 13.8% | $0.00 | $37.67 | $0.00 | $0.00 | $0.00 | $0.00 | $1.17 |
| (63) | | 153 | $335.00 | $293.43 | $41.57 | 14.2% | $0.00 | $40.32 | $0.00 | $0.00 | $0.00 | $0.00 | $1.25 |
| (64) | | 160 | $345.61 | $302.18 | $43.43 | 14.4% | $0.00 | $42.13 | $0.00 | $0.00 | $0.00 | $0.00 | $1.30 |

National Grid - RI Gas
Interim Gas Cost Recovery Filing
Bill Impact Analysis with Various Levels of Consumption:

**C & I Small:**

| | | Annual Consumption (Therms) | Mar- Oct Proposed Rates | Mar- Oct Current Rates | Mar- Oct Difference | % Chg | Difference due to: Base Rates | GCR | DAC: Base DAC | DAC: ISR | EE | LIHEAP | GET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (69) | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
| (70) | | | | | | | | | | | | | |
| (71) | | 402 | $817.87 | $708.75 | $109.11 | 15.4% | $0.00 | $105.84 | $0.00 | $0.00 | $0.00 | $0.00 | $3.27 |
| (72) | | 444 | $876.48 | $755.95 | $120.53 | 15.9% | $0.00 | $116.91 | $0.00 | $0.00 | $0.00 | $0.00 | $3.62 |
| (73) | | 486 | $934.41 | $802.50 | $131.91 | 16.4% | $0.00 | $127.95 | $0.00 | $0.00 | $0.00 | $0.00 | $3.96 |
| (74) | | 530 | $994.66 | $850.79 | $143.87 | 16.9% | $0.00 | $139.55 | $0.00 | $0.00 | $0.00 | $0.00 | $4.32 |
| (75) | | 574 | $1,054.51 | $898.69 | $155.81 | 17.3% | $0.00 | $151.14 | $0.00 | $0.00 | $0.00 | $0.00 | $4.67 |
| (76) | **Average Customer** | **617** | **$1,109.53** | **$942.11** | **$167.42** | **17.8%** | $0.00 | $162.40 | $0.00 | $0.00 | $0.00 | $0.00 | $5.02 |
| (77) | | 660 | $1,165.12 | $985.97 | $179.14 | 18.2% | $0.00 | $173.77 | $0.00 | $0.00 | $0.00 | $0.00 | $5.37 |
| (78) | | 703 | $1,220.43 | $1,029.58 | $190.85 | 18.5% | $0.00 | $185.12 | $0.00 | $0.00 | $0.00 | $0.00 | $5.73 |
| (79) | | 746 | $1,275.68 | $1,073.18 | $202.51 | 18.9% | $0.00 | $196.43 | $0.00 | $0.00 | $0.00 | $0.00 | $6.08 |
| (80) | | 789 | $1,330.97 | $1,116.80 | $214.18 | 19.2% | $0.00 | $207.75 | $0.00 | $0.00 | $0.00 | $0.00 | $6.43 |
| (81) | | 832 | $1,386.27 | $1,160.44 | $225.84 | 19.5% | $0.00 | $219.06 | $0.00 | $0.00 | $0.00 | $0.00 | $6.78 |

**C & I Medium:**

| | | Annual Consumption (Therms) | Mar- Oct Proposed Rates | Mar- Oct Current Rates | Mar- Oct Difference | % Chg | Difference due to: Base Rates | GCR | DAC: Base DAC | DAC: ISR | EE | LIHEAP | GET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (86) | | 3,953 | $5,783.78 | $4,710.78 | $1,073.00 | 22.8% | $0.00 | $1,040.81 | $0.00 | $0.00 | $0.00 | $0.00 | $32.19 |
| (87) | | 4,378 | $6,343.16 | $5,154.77 | $1,188.38 | 23.1% | $0.00 | $1,152.73 | $0.00 | $0.00 | $0.00 | $0.00 | $35.65 |
| (88) | | 4,803 | $6,902.17 | $5,598.42 | $1,303.74 | 23.3% | $0.00 | $1,264.63 | $0.00 | $0.00 | $0.00 | $0.00 | $39.11 |
| (89) | | 5,228 | $7,461.55 | $6,042.42 | $1,419.12 | 23.5% | $0.00 | $1,376.55 | $0.00 | $0.00 | $0.00 | $0.00 | $42.57 |
| (90) | | 5,654 | $8,021.70 | $6,486.96 | $1,534.74 | 23.7% | $0.00 | $1,488.70 | $0.00 | $0.00 | $0.00 | $0.00 | $46.04 |
| (91) | **Average Customer** | **6,080** | **$8,582.26** | **$6,931.84** | **$1,650.41** | **23.8%** | $0.00 | $1,600.90 | $0.00 | $0.00 | $0.00 | $0.00 | $49.51 |
| (92) | | 6,506 | $9,142.43 | $7,376.43 | $1,766.00 | 23.9% | $0.00 | $1,713.02 | $0.00 | $0.00 | $0.00 | $0.00 | $52.98 |
| (93) | | 6,932 | $9,702.63 | $7,820.99 | $1,881.64 | 24.1% | $0.00 | $1,825.19 | $0.00 | $0.00 | $0.00 | $0.00 | $56.45 |
| (94) | | 7,357 | $10,261.98 | $8,264.96 | $1,997.02 | 24.2% | $0.00 | $1,937.11 | $0.00 | $0.00 | $0.00 | $0.00 | $59.91 |
| (95) | | 7,783 | $10,822.18 | $8,709.55 | $2,112.63 | 24.3% | $0.00 | $2,049.25 | $0.00 | $0.00 | $0.00 | $0.00 | $63.38 |
| (96) | | 8,208 | $11,381.52 | $9,153.51 | $2,228.01 | 24.3% | $0.00 | $2,161.17 | $0.00 | $0.00 | $0.00 | $0.00 | $66.84 |

National Grid - RI Gas
Interim Gas Cost Recovery Filing
Bill Impact Analysis with Various Levels of Consumption:

**C & I LLF Large:**

| | | Annual Consumption (Therms) | Mar- Oct Proposed Rates | Mar- Oct Current Rates | Mar- Oct Difference | % Chg | Difference due to: Base Rates | GCR | DAC: Base DAC | DAC: ISR | EE | LIHEAP | GET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (101) | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
| (102) | | | | | | | | | | | | | |
| (103) | | 18,225 | $25,476.92 | $20,529.86 | $4,947.06 | 24.1% | $0.00 | $4,798.65 | $0.00 | $0.00 | $0.00 | $0.00 | $148.41 |
| (104) | | 20,186 | $28,062.46 | $22,583.13 | $5,479.33 | 24.3% | $0.00 | $5,314.95 | $0.00 | $0.00 | $0.00 | $0.00 | $164.38 |
| (105) | | 22,149 | $30,650.29 | $24,638.10 | $6,012.19 | 24.4% | $0.00 | $5,831.82 | $0.00 | $0.00 | $0.00 | $0.00 | $180.37 |
| (106) | | 24,112 | $33,238.18 | $26,693.15 | $6,545.03 | 24.5% | $0.00 | $6,348.68 | $0.00 | $0.00 | $0.00 | $0.00 | $196.35 |
| (107) | | 26,076 | $35,827.17 | $28,749.01 | $7,078.16 | 24.6% | $0.00 | $6,865.82 | $0.00 | $0.00 | $0.00 | $0.00 | $212.34 |
| (108) | **Average Customer** | **28,037** | **$38,412.83** | **$30,802.36** | **$7,610.47** | **24.7%** | $0.00 | $7,382.16 | $0.00 | $0.00 | $0.00 | $0.00 | $228.31 |
| (109) | | 29,999 | $40,999.39 | $32,856.36 | $8,143.03 | 24.8% | $0.00 | $7,898.74 | $0.00 | $0.00 | $0.00 | $0.00 | $244.29 |
| (110) | | 31,962 | $43,587.23 | $34,911.35 | $8,675.88 | 24.9% | $0.00 | $8,415.60 | $0.00 | $0.00 | $0.00 | $0.00 | $260.28 |
| (111) | | 33,925 | $46,175.50 | $36,966.78 | $9,208.71 | 24.9% | $0.00 | $8,932.45 | $0.00 | $0.00 | $0.00 | $0.00 | $276.26 |
| (112) | | 35,888 | $48,763.33 | $39,021.77 | $9,741.56 | 25.0% | $0.00 | $9,449.31 | $0.00 | $0.00 | $0.00 | $0.00 | $292.25 |
| (113) | | 37,850 | $51,350.01 | $41,075.90 | $10,274.11 | 25.0% | $0.00 | $9,965.89 | $0.00 | $0.00 | $0.00 | $0.00 | $308.22 |

(97) (98) (99) (100)

**C & I HLF Large:**

| | | Annual Consumption (Therms) | Mar- Oct Proposed Rates | Mar- Oct Current Rates | Mar- Oct Difference | % Chg | Difference due to: Base Rates | GCR | DAC: Base DAC | DAC: ISR | EE | LIHEAP | GET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (118) | | 30,067 | $35,683.26 | $27,518.66 | $8,164.60 | 29.7% | $0.00 | $7,919.66 | $0.00 | $0.00 | $0.00 | $0.00 | $244.94 |
| (119) | | 33,306 | $39,371.07 | $30,326.93 | $9,044.13 | 29.8% | $0.00 | $8,772.81 | $0.00 | $0.00 | $0.00 | $0.00 | $271.32 |
| (120) | | 36,546 | $43,059.85 | $33,135.91 | $9,923.94 | 29.9% | $0.00 | $9,626.22 | $0.00 | $0.00 | $0.00 | $0.00 | $297.72 |
| (121) | | 39,782 | $46,744.49 | $35,941.84 | $10,802.65 | 30.1% | $0.00 | $10,478.57 | $0.00 | $0.00 | $0.00 | $0.00 | $324.08 |
| (122) | | 43,021 | $50,432.27 | $38,750.08 | $11,682.20 | 30.1% | $0.00 | $11,331.73 | $0.00 | $0.00 | $0.00 | $0.00 | $350.47 |
| (123) | **Average Customer** | **46,260** | **$54,119.45** | **$41,557.80** | **$12,561.65** | **30.2%** | $0.00 | $12,184.80 | $0.00 | $0.00 | $0.00 | $0.00 | $376.85 |
| (124) | | 49,499 | $57,807.30 | $44,366.03 | $13,441.27 | 30.3% | $0.00 | $13,038.03 | $0.00 | $0.00 | $0.00 | $0.00 | $403.24 |
| (125) | | 52,736 | $61,493.00 | $47,172.71 | $14,320.29 | 30.4% | $0.00 | $13,890.68 | $0.00 | $0.00 | $0.00 | $0.00 | $429.61 |
| (126) | | 55,975 | $65,180.75 | $49,980.95 | $15,199.80 | 30.4% | $0.00 | $14,743.81 | $0.00 | $0.00 | $0.00 | $0.00 | $455.99 |
| (127) | | 59,213 | $68,867.51 | $52,788.43 | $16,079.08 | 30.5% | $0.00 | $15,596.71 | $0.00 | $0.00 | $0.00 | $0.00 | $482.37 |
| (128) | | 62,452 | $72,555.29 | $55,596.67 | $16,958.62 | 30.5% | $0.00 | $16,449.86 | $0.00 | $0.00 | $0.00 | $0.00 | $508.76 |

(114) (115) (116) (117)

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4719
Attachment DIV 4-25(b)
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National Grid - RI Gas
Interim Gas Cost Recovery Filing
Bill Impact Analysis with Various Levels of Consumption:

**C & I LLF Extra-Large:**

| Line | | Annual Consumption (Therms) | Mar- Oct Proposed Rates | Mar- Oct Current Rates | Mar- Oct Difference | % Chg | Base Rates | GCR | DAC Base DAC | DAC ISR | EE | LIHEAP | GET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (133) | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
| (134) | | | | | | | | | | | | | |
| (135) | | 72,940 | $83,445.95 | $63,646.87 | $19,799.08 | 31.1% | $0.00 | $19,205.11 | $0.00 | $0.00 | $0.00 | $0.00 | $593.97 |
| (136) | | 80,797 | $92,055.95 | $70,124.13 | $21,931.81 | 31.3% | $0.00 | $21,273.86 | $0.00 | $0.00 | $0.00 | $0.00 | $657.95 |
| (137) | | 88,652 | $100,664.07 | $76,600.08 | $24,063.99 | 31.4% | $0.00 | $23,342.07 | $0.00 | $0.00 | $0.00 | $0.00 | $721.92 |
| (138) | | 96,505 | $109,270.63 | $83,075.02 | $26,195.62 | 31.5% | $0.00 | $25,409.75 | $0.00 | $0.00 | $0.00 | $0.00 | $785.87 |
| (139) | | 104,363 | $117,881.62 | $89,552.95 | $28,328.67 | 31.6% | $0.00 | $27,478.81 | $0.00 | $0.00 | $0.00 | $0.00 | $849.86 |
| (140) | **Average Customer** | **112,217** | **$126,488.97** | **$96,028.36** | **$30,460.61** | **31.7%** | $0.00 | $29,546.79 | $0.00 | $0.00 | $0.00 | $0.00 | $913.82 |
| (141) | | 120,072 | $135,096.88 | $102,504.15 | $32,592.73 | 31.8% | $0.00 | $31,614.95 | $0.00 | $0.00 | $0.00 | $0.00 | $977.78 |
| (142) | | 127,927 | $143,705.37 | $108,980.44 | $34,724.93 | 31.9% | $0.00 | $33,683.18 | $0.00 | $0.00 | $0.00 | $0.00 | $1,041.75 |
| (143) | | 135,782 | $152,313.48 | $115,456.38 | $36,857.10 | 31.9% | $0.00 | $35,751.39 | $0.00 | $0.00 | $0.00 | $0.00 | $1,105.71 |
| (144) | | 143,638 | $160,922.54 | $121,932.96 | $38,989.58 | 32.0% | $0.00 | $37,819.89 | $0.00 | $0.00 | $0.00 | $0.00 | $1,169.69 |
| (145) | | 151,493 | $169,530.64 | $128,408.88 | $41,121.76 | 32.0% | $0.00 | $39,888.11 | $0.00 | $0.00 | $0.00 | $0.00 | $1,233.65 |

(129)–(132): Difference due to: (f)–(l)

**C & I HLF Extra-Large:**

| Line | | Annual Consumption (Therms) | Mar- Oct Proposed Rates | Mar- Oct Current Rates | Mar- Oct Difference | % Chg | Base Rates | GCR | DAC Base DAC | DAC ISR | EE | LIHEAP | GET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (150) | | 276,118 | $272,090.03 | $197,111.21 | $74,978.82 | 38.0% | $0.00 | $72,729.46 | $0.00 | $0.00 | $0.00 | $0.00 | $2,249.36 |
| (151) | | 305,854 | $301,013.85 | $217,960.30 | $83,053.55 | 38.1% | $0.00 | $80,561.94 | $0.00 | $0.00 | $0.00 | $0.00 | $2,491.61 |
| (152) | | 335,589 | $329,937.28 | $238,809.33 | $91,127.96 | 38.2% | $0.00 | $88,394.12 | $0.00 | $0.00 | $0.00 | $0.00 | $2,733.84 |
| (153) | | 365,325 | $358,861.07 | $259,658.38 | $99,202.69 | 38.2% | $0.00 | $96,226.61 | $0.00 | $0.00 | $0.00 | $0.00 | $2,976.08 |
| (154) | | 395,060 | $387,783.95 | $280,506.86 | $107,277.09 | 38.2% | $0.00 | $104,058.78 | $0.00 | $0.00 | $0.00 | $0.00 | $3,218.31 |
| (155) | **Average Customer** | **424,797** | **$416,708.68** | **$301,356.71** | **$115,351.97** | **38.3%** | $0.00 | $111,891.41 | $0.00 | $0.00 | $0.00 | $0.00 | $3,460.56 |
| (156) | | 454,532 | $445,632.13 | $322,205.58 | $123,426.55 | 38.3% | $0.00 | $119,723.75 | $0.00 | $0.00 | $0.00 | $0.00 | $3,702.80 |
| (157) | | 484,269 | $474,556.82 | $343,055.32 | $131,501.49 | 38.3% | $0.00 | $127,556.45 | $0.00 | $0.00 | $0.00 | $0.00 | $3,945.04 |
| (158) | | 514,004 | $503,480.25 | $363,904.32 | $139,575.94 | 38.4% | $0.00 | $135,388.66 | $0.00 | $0.00 | $0.00 | $0.00 | $4,187.28 |
| (159) | | 543,739 | $532,403.17 | $384,752.83 | $147,650.34 | 38.4% | $0.00 | $143,220.83 | $0.00 | $0.00 | $0.00 | $0.00 | $4,429.51 |
| (160) | | 573,476 | $561,328.40 | $405,603.05 | $155,725.35 | 38.4% | $0.00 | $151,053.59 | $0.00 | $0.00 | $0.00 | $0.00 | $4,671.76 |

(146)–(149): Difference due to: (f)–(l)

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4719
Attachment DIV 4-25(b)
Page 8 of 8

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
Factors Effective March 1, 2018
Recovery of 50% of Projected Deferral Between March 1, 2018 and October 31, 2018

| | | Source | | | | FT-2 |
|---|---|---|---|---|---|---|
| | Description | Reference | Line # | High Load[1] | Low Load[2] | Mkter |
| | (a) | (b) | (c) | (d) | (e) | (f) |
| (1) | Fixed Cost Factor - $/dktherm | Approved Factor* | | $1.1342 | $1.5517 | |
| (2) | Variable Cost Factor -$/dktherm | Approved Factor | | $3.5711 | $3.5711 | |
| (3) | Total Gas Cost Recovery Charge- $/dktherm | Approved Factor | | $4.7053 | $5.1228 | |
| (4) | Surcharge Factor | Manual Input | | $1.7000 | $1.7000 | |
| (5) | Total Revised Gas Cost Recovery Charge | (3) + (4) | | $6.4053 | $6.8228 | |
| (6) | Uncollectible % | Docket 4323 | | 3.18% | 3.18% | |
| (7) | Total GCR Charge adjusted for Uncollectibles- $/dkdtherm | (5) ÷ [1 - (6)] | | $6.6156 | $7.0468 | |
| (8) | **GCR Charge on a per therm basis** | (7) ÷ 10 | | **$0.6615** | **$0.7046** | |
| (9) | Current rate effective 11/01/17* - $/therm | | | $0.4859 | $0.5291 | |
| (10) | Increase- $/therm | (8) - (9) | | $0.1756 | $0.1755 | |
| (11) | Percent Increase | (10) ÷ (9) | | 36.1% | 33.2% | |
| | **Calculation of 50% Deferral Recovery** | | | | | |
| (12) | Projected Deferral With No Rate Change | Page 2, (49)(l) | | $34,406,182 | | |
| (13) | Percentage of Deferral to Recover | Manual Input | | 50% | | |
| (14) | Remaining Deferral at October 31, 2018 | (12) x (1 - (13)) | | $17,203,091 | | |
| (15) | Remaining Deferral with Surcharge in Line (4) | Page 3, (49)(l) | | $17,206,224 | | |

* GCR rates approved with the Rebuttal GCR filing per Docket No. 4719 filed on October 23, 2017

[1] Includes: Residential Non Heating, Large High Load and Extra Large High Load

[2] Includes: Residential Heating, Small C&I, Medium C&I, Large Low Load, Extra Large Low Load

National Grid
Rhode Island - Gas



Deferred Gas Cost Balances

| | Description | Reference | Nov Actual | Dec Actual | Jan Forecast | Feb Forecast | Mar Forecast | Apr Forecast | May Forecast | Jun Forecast | Jul Forecast | Aug Forecast | Sep Forecast | Oct Forecast | Nov-Oct |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (1) | # of Days in Month | | 30 | 31 | 31 | 28 | 31 | 30 | 31 | 30 | 31 | 31 | 30 | 31 | 365 |
| | | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) | (m) |
| (2) | I. Fixed Cost Deferred | | | | | | | | | | | | | | |
| (3) | Beginning Under/(Over) Recovery | | $1,106,719 | $2,186,800 | $518,946 | ($5,184,717) | ($7,502,087) | ($8,961,811) | ($10,154,962) | ($9,323,349) | ($7,474,277) | ($5,189,363) | ($2,795,395) | ($502,619) | $1,106,719 |
| (4) | Supply Fixed Costs (net of cap rel) | Sch. 2, line (31) | $4,342,453 | $4,432,787 | $6,108,532 | $6,106,396 | $6,108,532 | $4,531,059 | $4,531,771 | $4,531,059 | $4,531,771 | $4,531,771 | $4,530,656 | $4,531,368 | $58,818,154 |
| (5) | System Pressure to DAC | Dkt 4719 | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($3,153,600) |
| (6) | Supply Related LNG O & M | Dkt 4323 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $575,581 |
| (7) | NGPMP Credits | | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($10,900,000) |
| (8) | Working Capital | Sch. 4, line (15) | $23,513 | $24,034 | $29,296 | $29,286 | $29,296 | $21,391 | $21,394 | $21,391 | $21,394 | $21,394 | $21,389 | $21,392 | $285,170 |
| (9) | Total Supply Fixed Costs | Sum[(4):(8)] | $3,242,798 | $3,333,652 | $5,014,660 | $5,012,513 | $5,014,660 | $3,429,281 | $3,429,997 | $3,429,281 | $3,429,997 | $3,429,997 | $3,428,876 | $3,429,592 | $45,625,304 |
| (10) | Supply Fixed - Revenue | Sch. 3, line 13 | $2,201,823 | $5,004,233 | $10,713,375 | $7,317,730 | $6,456,923 | $4,602,813 | $2,577,727 | $1,562,969 | $1,131,653 | $1,027,561 | $1,132,715 | $1,373,589 | $45,103,110 |
| (11) | Monthly Under/(Over) Recovery | (9) - (10) | $1,040,975 | ($1,670,580) | ($5,698,715) | ($2,305,217) | ($1,442,263) | ($1,173,532) | $852,270 | $1,866,312 | $2,298,344 | $2,402,436 | $2,296,161 | $2,056,003 | $522,195 |
| (12) | Prelim. Ending Under/(Over) Recovery | (3) + (11) | $2,147,693 | $516,220 | ($5,179,769) | ($7,489,934) | ($8,944,350) | ($10,135,342) | ($9,302,692) | ($7,457,037) | ($5,175,933) | ($2,786,927) | ($499,234) | $1,553,384 | $1,628,914 |
| (13) | Month's Average Balance | [(3) + (12)] / 2 | $1,627,206 | $1,351,510 | ($2,330,411) | ($6,337,325) | ($8,223,219) | ($9,548,576) | ($9,728,827) | ($8,390,193) | ($6,325,105) | ($3,988,145) | ($1,647,315) | $525,383 | |
| (14) | Interest Rate (BOA Prime minus 200 bps) | | 2.25% | 2.38% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | |
| (15) | Interest Applied | [(13) x (14)] / 365 x (1) | $3,009 | $2,726 | ($4,948) | ($12,154) | ($17,460) | ($19,620) | ($20,657) | ($17,240) | ($13,430) | ($8,468) | ($3,385) | $1,116 | ($110,512) |
| (16) | Marketer Reconcilation | Dkt 4719, AEL-7, Line (50) | $36,098 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $36,098 |
| (17) | Fixed Ending Under/(Over) Recovery | (12) + (15) + (16) | $2,186,800 | $518,946 | ($5,184,717) | ($7,502,087) | ($8,961,811) | ($10,154,962) | ($9,323,349) | ($7,474,277) | ($5,189,363) | ($2,795,395) | ($502,619) | $1,554,499 | $1,554,499 |
| (18) | II. Variable Cost Deferred | | | | | | | | | | | | | | |
| (19) | Beginning Under/(Over) Recovery | | $13,703,849 | $17,445,473 | $29,443,058 | $46,180,590 | $45,191,882 | $42,184,163 | $37,455,008 | $35,171,386 | $34,062,004 | $33,566,278 | $33,195,191 | $32,634,373 | $13,703,849 |
| (20) | Variable Supply Costs | Sch. 2, line (77) | $8,944,909 | $22,922,438 | $40,745,661 | $15,290,402 | $11,335,821 | $5,367,623 | $3,135,675 | $1,967,716 | $1,569,660 | $1,440,572 | $1,482,780 | $2,802,607 | $117,005,862 |
| (21) | Supply Related LNG to DAC | Dkt 4339 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| (22) | Supply Related LNG O & M | Dkt 4323 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $572,694 |
| (23) | Inventory Financing - LNG | Sch. 5, line (22) | $32,062 | $21,879 | $8,917 | $3,681 | $3,129 | $7,665 | $12,330 | $16,871 | $18,512 | $19,401 | $23,928 | $24,809 | $193,185 |
| (24) | Inventory Financing - UG | Sch. 5, line (12) | $80,793 | $69,463 | $43,426 | $30,391 | $18,503 | $18,804 | $27,475 | $35,906 | $41,657 | $49,189 | $61,111 | $71,358 | $548,077 |
| (25) | Working Capital | Sch. 4, line (30) | $51,554 | $132,114 | $204,200 | $76,629 | $56,810 | $26,900 | $15,715 | $9,861 | $7,866 | $7,220 | $7,431 | $14,045 | $610,345 |
| (26) | Total Supply Variable Costs | Sum[(20):(25)] | $9,157,042 | $23,193,618 | $41,049,928 | $15,448,828 | $11,461,987 | $5,468,717 | $3,238,919 | $2,078,078 | $1,685,420 | $1,564,106 | $1,622,975 | $2,960,545 | $118,930,162 |
| (27) | Supply Variable - Revenue | Sch. 3, line (30) | $5,444,194 | $11,243,274 | $24,392,597 | $16,525,069 | $14,562,370 | $10,279,609 | $5,599,562 | $3,258,518 | $2,252,867 | $2,005,995 | $2,251,356 | $2,812,684 | $100,628,096 |
| (28) | Monthly Under/(Over) Recovery | (26) - (27) | $3,712,848 | $11,950,343 | $16,657,331 | ($1,076,241) | ($3,100,383) | ($4,810,892) | ($2,360,643) | ($1,180,440) | ($567,447) | ($441,889) | ($628,381) | $147,861 | $18,302,067 |
| (29) | Prelim. Ending Under/(Over) Recovery | (19) + (28) | $17,416,697 | $29,395,816 | $46,100,390 | $45,104,349 | $42,091,499 | $37,373,271 | $35,094,365 | $33,990,947 | $33,494,557 | $33,124,389 | $32,566,810 | $32,782,234 | $32,005,916 |
| (30) | Month's Average Balance | [(19) + (29)] / 2 | $15,560,273 | $23,420,644 | $37,771,724 | $45,642,469 | $43,641,691 | $39,778,717 | $36,274,686 | $34,581,166 | $33,778,280 | $33,345,333 | $32,881,000 | $32,708,304 | |
| (31) | Interest Rate (BOA Prime minus 200 bps) | | 2.25% | 2.38% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | |
| (32) | Interest Applied | [(30) x (31)] / 365 x (1) | $28,776 | $47,242 | $80,200 | $87,534 | $92,664 | $81,737 | $77,022 | $71,057 | $71,721 | $70,802 | $67,564 | $69,449 | $845,767 |
| (33) | Gas Procurement Incentive/(penalty) | | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| (34) | Variable Ending Under/(Over) Recovery | (29) + (32) + (33) | $17,445,473 | $29,443,058 | $46,180,590 | $45,191,882 | $42,184,163 | $37,455,008 | $35,171,386 | $34,062,004 | $33,566,278 | $33,195,191 | $32,634,373 | $32,851,683 | $32,851,683 |
| (35) | **GCR Deferred Summary** | | | | | | | | | | | | | | |
| (36) | Beginning Under/(Over) Recovery | (3) + (19) | $14,810,568 | $19,632,273 | $29,962,005 | $40,995,873 | $37,689,795 | $33,222,353 | $27,300,045 | $25,848,037 | $26,587,727 | $28,376,915 | $30,399,796 | $32,131,754 | $14,810,568 |
| (37) | Gas Costs | Sum[(4):(6),(16),(20):(22)] | $13,156,349 | $27,188,114 | $46,687,083 | $21,229,687 | $17,277,242 | $9,731,571 | $7,500,335 | $6,331,664 | $5,934,321 | $5,805,232 | $5,846,325 | $7,166,864 | $173,854,788 |
| (38) | Inventory Finance | (23) + (24) | $112,855 | $91,342 | $52,343 | $34,072 | $21,632 | $26,469 | $39,805 | $52,777 | $60,169 | $68,590 | $85,040 | $96,167 | $741,261 |
| (39) | Working Capital | (8) + (25) | $75,067 | $156,147 | $233,496 | $105,914 | $86,106 | $48,291 | $37,109 | $31,252 | $29,261 | $28,614 | $28,820 | $35,438 | $895,514 |
| (40) | NGPMP Credits | (7) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($10,900,000) |
| (41) | Total Costs | Sum[(37):(40)] | $12,435,937 | $26,527,270 | $46,064,589 | $20,461,341 | $16,476,647 | $8,897,998 | $6,668,916 | $5,507,360 | $5,115,417 | $4,994,103 | $5,051,851 | $6,390,136 | $164,591,565 |
| (42) | Revenue | (10) + (27) | $7,646,017 | $16,247,507 | $35,105,972 | $23,842,799 | $21,019,293 | $14,882,422 | $8,177,289 | $4,821,487 | $3,384,520 | $3,033,556 | $3,384,071 | $4,186,273 | $145,731,205 |
| (43) | Monthly Under/(Over) Recovery | (41) - (42) | $4,789,920 | $10,279,763 | $10,958,617 | ($3,381,458) | ($4,542,646) | ($5,984,424) | ($1,508,373) | $685,873 | $1,730,897 | $1,960,547 | $1,667,780 | $2,203,863 | $18,860,359 |
| (44) | Prelim. Ending Under/(Over) Recovery | (36) + (43) | $19,600,488 | $29,912,036 | $40,920,621 | $37,614,415 | $33,147,149 | $27,237,928 | $25,791,672 | $26,533,909 | $28,318,624 | $30,337,462 | $32,067,576 | $34,335,618 | |
| (45) | Month's Average Balance | [(36) + (44)] / 2 | $17,205,528 | $24,772,154 | $35,441,313 | $39,305,144 | $35,418,472 | $30,230,141 | $26,545,859 | $26,190,973 | $27,453,175 | $29,357,188 | $31,233,686 | $33,233,686 | |
| (46) | Interest Rate (BOA Prime minus 200 bps) | | 2.25% | 2.38% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | |
| (47) | Interest Applied | (15) + (32) | $31,785 | $49,968 | $75,252 | $75,380 | $75,204 | $62,117 | $56,364 | $53,817 | $58,291 | $62,334 | $64,179 | $70,565 | $735,256 |
| (48) | Gas Purchase Plan Incentives/(Penalties) | (33) | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| **(49)** | **Ending Under/(Over) Recovery W/ Interest** | (44) + (47) + (48) | $19,632,273 | $29,962,005 | $40,995,873 | $37,689,795 | $33,222,353 | $27,300,045 | $25,848,037 | $26,587,727 | $28,376,915 | $30,399,796 | $32,131,754 | $\boxed{\$34,406,182}$ | $34,406,182 |

National Grid
Rhode Island - Gas



Deferred Gas Cost Balances

| | Description | Reference | Nov Actual | Dec Actual | Jan Forecast | Feb Forecast | Mar Forecast | Apr Forecast | May Forecast | Jun Forecast | Jul Forecast | Aug Forecast | Sep Forecast | Oct Forecast | Nov-Oct |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (1) | # of Days in Month | | 30 | 31 | 31 | 28 | 31 | 30 | 31 | 30 | 31 | 31 | 30 | 31 | 365 |
| | | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) | (m) |
| (2) | I. Fixed Cost Deferred | | | | | | | | | | | | | | |
| (3) | Beginning Under/(Over) Recovery | | $1,106,719 | $2,186,800 | $518,946 | ($5,184,717) | ($7,502,087) | ($8,961,811) | ($10,154,962) | ($9,323,349) | ($7,474,277) | ($5,189,363) | ($2,795,395) | ($502,619) | $1,106,719 |
| (4) | Supply Fixed Costs (net of cap rel) | Sch. 2, line (31) | $4,342,453 | $4,432,787 | $6,108,532 | $6,106,396 | $6,108,532 | $4,531,059 | $4,531,771 | $4,531,059 | $4,531,771 | $4,531,771 | $4,530,656 | $4,531,368 | $58,818,154 |
| (5) | System Pressure to DAC | Dkt 4719 | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($3,153,600) |
| (6) | Supply Related LNG O & M | Dkt 4323 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $575,581 |
| (7) | NGPMP Credits | | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($10,900,000) |
| (8) | Working Capital | Sch. 4, line (15) | $23,513 | $24,034 | $29,296 | $29,286 | $29,296 | $21,391 | $21,394 | $21,391 | $21,394 | $21,394 | $21,389 | $21,392 | $285,170 |
| (9) | Total Supply Fixed Costs | Sum[(4):(8)] | $3,242,798 | $3,333,652 | $5,014,660 | $5,012,513 | $5,014,660 | $3,429,281 | $3,429,997 | $3,429,281 | $3,429,997 | $3,429,997 | $3,428,876 | $3,429,592 | $45,625,304 |
| (10) | Supply Fixed - Revenue | Sch. 3, line 13 | $2,201,823 | $5,004,233 | $10,713,375 | $7,317,730 | $6,456,923 | $4,602,813 | $2,577,727 | $1,562,969 | $1,131,653 | $1,027,561 | $1,132,715 | $1,373,589 | $45,103,110 |
| (11) | Monthly Under/(Over) Recovery | (9) - (10) | $1,040,975 | ($1,670,580) | ($5,698,715) | ($2,305,217) | ($1,442,263) | ($1,173,532) | $852,270 | $1,866,312 | $2,298,344 | $2,402,436 | $2,296,161 | $2,056,003 | $522,195 |
| (12) | Prelim. Ending Under/(Over) Recovery | (3) + (11) | $2,147,693 | $516,220 | ($5,179,769) | ($7,489,934) | ($8,944,350) | ($10,135,342) | ($9,302,692) | ($7,457,037) | ($5,175,933) | ($2,786,927) | ($499,234) | $1,553,384 | $1,628,914 |
| (13) | Month's Average Balance | [(3) + (12)] / 2 | $1,627,206 | $1,351,510 | ($2,330,411) | ($6,337,325) | ($8,223,219) | ($9,548,576) | ($9,728,827) | ($8,390,193) | ($6,325,105) | ($3,988,145) | ($1,647,315) | $525,383 | |
| (14) | Interest Rate (BOA Prime minus 200 bps) | | 2.25% | 2.38% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | |
| (15) | Interest Applied | [(13) x (14)] / 365 x (1) | $3,009 | $2,726 | ($4,948) | ($12,154) | ($17,460) | ($19,620) | ($20,657) | ($17,240) | ($13,430) | ($8,468) | ($3,385) | $1,116 | ($110,512) |
| (16) | Marketer Reconcilation | Dkt 4719, AEL-7, Line (50) | $36,098 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $36,098 |
| (17) | Fixed Ending Under/(Over) Recovery | (12) + (15) + (16) | $2,186,800 | $518,946 | ($5,184,717) | ($7,502,087) | ($8,961,811) | ($10,154,962) | ($9,323,349) | ($7,474,277) | ($5,189,363) | ($2,795,395) | ($502,619) | $1,554,499 | $1,554,499 |
| (18) | II. Variable Cost Deferred | | | | | | | | | | | | | | |
| (19) | Beginning Under/(Over) Recovery | | $13,703,849 | $17,445,473 | $29,443,058 | $46,180,590 | $45,191,882 | $38,714,320 | $29,079,463 | $24,109,591 | $21,424,688 | $19,828,528 | $18,472,315 | $16,808,401 | $13,703,849 |
| (20) | Variable Supply Costs | Sch. 2, line (77) | $8,944,909 | $22,922,438 | $40,745,661 | $15,290,402 | $11,335,821 | $5,367,623 | $3,135,675 | $1,967,716 | $1,569,660 | $1,440,572 | $1,482,780 | $2,802,607 | $117,005,862 |
| (21) | Supply Related LNG to DAC | Dkt 4339 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| (22) | Supply Related LNG O & M | Dkt 4323 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $572,694 |
| (23) | Inventory Financing - LNG | Sch. 5, line (22) | $32,062 | $21,879 | $8,917 | $3,681 | $3,129 | $7,665 | $12,330 | $16,871 | $18,512 | $19,401 | $23,928 | $24,809 | $193,185 |
| (24) | Inventory Financing - UG | Sch. 5, line (12) | $80,793 | $69,463 | $43,426 | $30,391 | $18,503 | $18,804 | $27,475 | $35,906 | $41,657 | $49,189 | $61,111 | $71,358 | $548,077 |
| (25) | Working Capital | Sch. 4, line (30) | $51,554 | $132,114 | $204,200 | $76,629 | $56,810 | $26,900 | $15,715 | $9,861 | $7,866 | $7,220 | $7,431 | $14,045 | $610,345 |
| (26) | Total Supply Variable Costs | Sum[(20):(25)] | $9,157,042 | $23,193,618 | $41,049,928 | $15,448,828 | $11,461,987 | $5,468,717 | $3,238,919 | $2,078,078 | $1,685,420 | $1,564,106 | $1,622,975 | $2,960,545 | $118,930,162 |
| (27) | Supply Variable - Revenue | Sch. 3, line (30) | $5,444,194 | $11,243,275 | $24,392,597 | $16,525,069 | $18,028,533 | $15,173,153 | $8,265,199 | $4,809,715 | $3,325,330 | $2,960,937 | $3,323,100 | $4,151,645 | $117,642,747 |
| (28) | Monthly Under/(Over) Recovery | (26) - (27) | $3,712,848 | $11,950,343 | $16,657,331 | ($1,076,241) | ($6,566,546) | ($9,704,436) | ($5,026,280) | ($2,731,637) | ($1,639,910) | ($1,396,831) | ($1,700,125) | ($1,191,100) | $1,287,415 |
| (29) | Prelim. Ending Under/(Over) Recovery | (19) + (28) | $17,416,697 | $29,395,816 | $46,100,389 | $45,104,348 | $38,625,336 | $29,009,883 | $24,053,183 | $21,377,954 | $19,784,778 | $18,431,697 | $16,772,190 | $15,617,300 | $14,991,264 |
| (30) | Month's Average Balance | [(19) + (29)] / 2 | $15,560,273 | $23,420,644 | $37,771,724 | $45,642,469 | $41,908,609 | $33,862,101 | $26,566,323 | $22,743,772 | $20,604,733 | $19,130,112 | $17,622,253 | $16,212,850 | |
| (31) | Interest Rate (BOA Prime minus 200 bps) | | 2.25% | 2.38% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | |
| (32) | Interest Applied | [(30) x (31)] / 365 x (1) | $28,776 | $47,242 | $80,200 | $87,534 | $88,984 | $69,580 | $56,408 | $46,734 | $43,750 | $40,619 | $36,210 | $34,425 | $660,460 |
| (33) | Gas Procurement Incentive/(penalty) | | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| (34) | Variable Ending Under/(Over) Recovery | (29) + (32) + (33) | $17,445,473 | $29,443,058 | $46,180,590 | $45,191,882 | $38,714,320 | $29,079,463 | $24,109,591 | $21,424,688 | $19,828,528 | $18,472,315 | $16,808,401 | $15,651,725 | $15,651,725 |
| (35) | **GCR Deferred Summary** | | | | | | | | | | | | | | |
| (36) | Beginning Under/(Over) Recovery | (3) + (19) | $14,810,568 | $19,632,273 | $29,962,004 | $40,995,873 | $37,689,794 | $29,752,509 | $18,924,500 | $14,786,241 | $13,950,411 | $14,639,165 | $15,676,920 | $16,305,782 | $14,810,568 |
| (37) | Gas Costs | Sum[(4):(6),(16),(20):(22)] | $13,156,349 | $27,188,114 | $46,687,083 | $21,229,687 | $17,277,242 | $9,731,571 | $7,500,335 | $6,331,664 | $5,934,321 | $5,805,232 | $5,846,325 | $7,166,864 | $173,854,788 |
| (38) | Inventory Finance | (23) + (24) | $112,855 | $91,342 | $52,343 | $34,072 | $21,632 | $26,469 | $39,805 | $52,777 | $60,169 | $68,590 | $85,040 | $96,167 | $741,261 |
| (39) | Working Capital | (8) + (25) | $75,067 | $156,147 | $233,496 | $105,914 | $86,106 | $48,291 | $37,109 | $31,252 | $29,261 | $28,614 | $28,820 | $35,438 | $895,514 |
| (40) | NGPMP Credits | (7) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($10,900,000) |
| (41) | Total Costs | Sum[(37):(40)] | $12,435,937 | $26,527,270 | $46,064,589 | $20,461,341 | $16,476,647 | $8,897,998 | $6,668,916 | $5,507,360 | $5,115,417 | $4,994,103 | $5,051,851 | $6,390,136 | $164,591,565 |
| (42) | Revenue | (10) + (27) | $7,646,018 | $16,247,507 | $35,105,972 | $23,842,799 | $24,485,456 | $19,775,966 | $10,842,926 | $6,372,684 | $4,456,983 | $3,988,498 | $4,455,815 | $5,525,234 | $162,745,857 |
| (43) | Monthly Under/(Over) Recovery | (41) - (42) | $4,789,920 | $10,279,763 | $10,958,617 | ($3,381,458) | ($8,008,809) | ($10,877,968) | ($4,174,010) | ($865,324) | $658,434 | $1,005,605 | $596,036 | $864,902 | $1,845,708 |
| (44) | Prelim. Ending Under/(Over) Recovery | (36) + (43) | $19,600,488 | $29,912,035 | $40,920,621 | $37,614,415 | $29,680,985 | $18,874,541 | $14,750,490 | $13,920,917 | $14,608,845 | $15,644,770 | $16,272,957 | $17,170,684 | |
| (45) | Month's Average Balance | [(36) + (44)] / 2 | $17,205,528 | $24,772,154 | $35,441,312 | $39,305,144 | $33,685,390 | $24,313,525 | $16,837,495 | $14,353,579 | $14,279,628 | $15,141,967 | $15,974,938 | $16,738,233 | |
| (46) | Interest Rate (BOA Prime minus 200 bps) | | 2.25% | 2.38% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | |
| (47) | Interest Applied | (15) + (32) | $31,785 | $49,968 | $75,252 | $75,380 | $71,524 | $49,959 | $35,751 | $29,494 | $30,320 | $32,151 | $32,825 | $35,540 | $549,949 |
| (48) | Gas Purchase Plan Incentives/(Penalties) | (33) | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| **(49)** | **Ending Under/(Over) Recovery W/ Interest** | (44) + (47) + (48) | $19,632,273 | $29,962,004 | $40,995,873 | $37,689,794 | $29,752,509 | $18,924,500 | $14,786,241 | $13,950,411 | $14,639,165 | $15,676,920 | $16,305,782 | $\boxed{\$17,206,224}$ | $17,206,224 |

National Grid - RI Gas
Interim Gas Cost Recovery Filing
Bill Impact Analysis with Various Levels of Consumption:

**Residential Heating:**

| Line | | Annual Consumption (Therms) | Mar- Oct Proposed Rates | Mar- Oct Current Rates | Mar- Oct Difference | % Chg | Difference due to: Base Rates | GCR | DAC: Base DAC | DAC: ISR | EE | LIHEAP | GET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (5) | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
| (6) | | | | | | | | | | | | | |
| (7) | | 258 | $486.04 | $439.35 | $46.69 | 10.6% | $0.00 | $45.29 | $0.00 | $0.00 | $0.00 | $0.00 | $1.40 |
| (8) | | 285 | $524.53 | $472.98 | $51.56 | 10.9% | $0.00 | $50.01 | $0.00 | $0.00 | $0.00 | $0.00 | $1.55 |
| (9) | | 313 | $564.35 | $507.70 | $56.65 | 11.2% | $0.00 | $54.95 | $0.00 | $0.00 | $0.00 | $0.00 | $1.70 |
| (10) | | 340 | $602.78 | $541.28 | $61.51 | 11.4% | $0.00 | $59.66 | $0.00 | $0.00 | $0.00 | $0.00 | $1.85 |
| (11) | | 369 | $643.35 | $576.60 | $66.75 | 11.6% | $0.00 | $64.75 | $0.00 | $0.00 | $0.00 | $0.00 | $2.00 |
| (12) | **Average Customer** | **396** | **$680.19** | **$608.52** | **$71.67** | **11.8%** | $0.00 | $69.52 | $0.00 | $0.00 | $0.00 | $0.00 | $2.15 |
| (13) | | 422 | $715.31 | $638.96 | $76.35 | 11.9% | $0.00 | $74.06 | $0.00 | $0.00 | $0.00 | $0.00 | $2.29 |
| (14) | | 452 | $755.93 | $674.16 | $81.77 | 12.1% | $0.00 | $79.32 | $0.00 | $0.00 | $0.00 | $0.00 | $2.45 |
| (15) | | 479 | $792.35 | $705.68 | $86.67 | 12.3% | $0.00 | $84.07 | $0.00 | $0.00 | $0.00 | $0.00 | $2.60 |
| (16) | | 505 | $827.38 | $736.02 | $91.36 | 12.4% | $0.00 | $88.62 | $0.00 | $0.00 | $0.00 | $0.00 | $2.74 |
| (17) | | 537 | $869.84 | $772.67 | $97.16 | 12.6% | $0.00 | $94.25 | $0.00 | $0.00 | $0.00 | $0.00 | $2.91 |

**Residential Heating Low Income:**

| Line | | Annual Consumption (Therms) | Mar- Oct Proposed Rates | Mar- Oct Current Rates | Mar- Oct Difference | % Chg | Difference due to: Base Rates | GCR | DAC: Base DAC | DAC: ISR | EE | LIHEAP | GET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (22) | | 258 | $462.97 | $416.28 | $46.69 | 11.2% | $0.00 | $45.29 | $0.00 | $0.00 | $0.00 | $0.00 | $1.40 |
| (23) | | 285 | $500.21 | $448.65 | $51.56 | 11.5% | $0.00 | $50.01 | $0.00 | $0.00 | $0.00 | $0.00 | $1.55 |
| (24) | | 313 | $538.74 | $482.09 | $56.65 | 11.8% | $0.00 | $54.95 | $0.00 | $0.00 | $0.00 | $0.00 | $1.70 |
| (25) | | 340 | $575.93 | $514.43 | $61.51 | 12.0% | $0.00 | $59.66 | $0.00 | $0.00 | $0.00 | $0.00 | $1.85 |
| (26) | | 369 | $615.24 | $548.49 | $66.75 | 12.2% | $0.00 | $64.75 | $0.00 | $0.00 | $0.00 | $0.00 | $2.00 |
| (27) | **Average Customer** | **396** | **$650.99** | **$579.32** | **$71.67** | **12.4%** | $0.00 | $69.52 | $0.00 | $0.00 | $0.00 | $0.00 | $2.15 |
| (28) | | 422 | $685.11 | $608.76 | $76.35 | 12.5% | $0.00 | $74.06 | $0.00 | $0.00 | $0.00 | $0.00 | $2.29 |
| (29) | | 452 | $724.56 | $642.79 | $81.77 | 12.7% | $0.00 | $79.32 | $0.00 | $0.00 | $0.00 | $0.00 | $2.45 |
| (30) | | 479 | $759.94 | $673.27 | $86.67 | 12.9% | $0.00 | $84.07 | $0.00 | $0.00 | $0.00 | $0.00 | $2.60 |
| (31) | | 505 | $793.97 | $702.61 | $91.36 | 13.0% | $0.00 | $88.62 | $0.00 | $0.00 | $0.00 | $0.00 | $2.74 |
| (32) | | 537 | $835.26 | $738.10 | $97.16 | 13.2% | $0.00 | $94.25 | $0.00 | $0.00 | $0.00 | $0.00 | $2.91 |

National Grid - RI Gas
Interim Gas Cost Recovery Filing
Bill Impact Analysis with Various Levels of Consumption:

**Residential Non-Heating:**

| | | Annual Consumption (Therms) | Mar- Oct Proposed Rates | Mar- Oct Current Rates | Mar- Oct Difference | % Chg | Difference due to: Base Rates | GCR | DAC: Base DAC | DAC: ISR | EE | LIHEAP | GET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (37) | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
| (39) | | 77 | $227.10 | $213.17 | $13.93 | 6.5% | $0.00 | $13.51 | $0.00 | $0.00 | $0.00 | $0.00 | $0.42 |
| (40) | | 86 | $240.32 | $224.76 | $15.56 | 6.9% | $0.00 | $15.09 | $0.00 | $0.00 | $0.00 | $0.00 | $0.47 |
| (41) | | 95 | $253.56 | $236.38 | $17.19 | 7.3% | $0.00 | $16.67 | $0.00 | $0.00 | $0.00 | $0.00 | $0.52 |
| (42) | | 102 | $263.84 | $245.37 | $18.47 | 7.5% | $0.00 | $17.92 | $0.00 | $0.00 | $0.00 | $0.00 | $0.55 |
| (43) | | 109 | $274.13 | $254.39 | $19.74 | 7.8% | $0.00 | $19.15 | $0.00 | $0.00 | $0.00 | $0.00 | $0.59 |
| (44) | **Average Customer** | 119 | **$288.40** | **$266.89** | **$21.52** | **8.1%** | $0.00 | $20.87 | $0.00 | $0.00 | $0.00 | $0.00 | $0.65 |
| (45) | | 126 | $299.15 | $276.31 | $22.84 | 8.3% | $0.00 | $22.15 | $0.00 | $0.00 | $0.00 | $0.00 | $0.69 |
| (46) | | 135 | $312.36 | $287.90 | $24.46 | 8.5% | $0.00 | $23.73 | $0.00 | $0.00 | $0.00 | $0.00 | $0.73 |
| (47) | | 143 | $324.13 | $298.24 | $25.90 | 8.7% | $0.00 | $25.12 | $0.00 | $0.00 | $0.00 | $0.00 | $0.78 |
| (48) | | 153 | $338.78 | $311.08 | $27.70 | 8.9% | $0.00 | $26.87 | $0.00 | $0.00 | $0.00 | $0.00 | $0.83 |
| (49) | | 160 | $349.11 | $320.14 | $28.97 | 9.0% | $0.00 | $28.10 | $0.00 | $0.00 | $0.00 | $0.00 | $0.87 |

**Residential Non-Heating Low Income:**

| | | Annual Consumption (Therms) | Mar- Oct Proposed Rates | Mar- Oct Current Rates | Mar- Oct Difference | % Chg | Difference due to: Base Rates | GCR | DAC: Base DAC | DAC: ISR | EE | LIHEAP | GET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (54) | | 77 | $212.89 | $198.96 | $13.93 | 7.0% | $0.00 | $13.51 | $0.00 | $0.00 | $0.00 | $0.00 | $0.42 |
| (55) | | 86 | $225.71 | $210.15 | $15.56 | 7.4% | $0.00 | $15.09 | $0.00 | $0.00 | $0.00 | $0.00 | $0.47 |
| (56) | | 95 | $238.54 | $221.36 | $17.19 | 7.8% | $0.00 | $16.67 | $0.00 | $0.00 | $0.00 | $0.00 | $0.52 |
| (57) | | 102 | $248.50 | $230.03 | $18.47 | 8.0% | $0.00 | $17.92 | $0.00 | $0.00 | $0.00 | $0.00 | $0.55 |
| (58) | | 109 | $258.48 | $238.73 | $19.74 | 8.3% | $0.00 | $19.15 | $0.00 | $0.00 | $0.00 | $0.00 | $0.59 |
| (59) | **Average Customer** | **119** | **$272.31** | **$250.79** | **$21.52** | **8.6%** | $0.00 | $20.87 | $0.00 | $0.00 | $0.00 | $0.00 | $0.65 |
| (60) | | 126 | $282.72 | $259.89 | $22.84 | 8.8% | $0.00 | $22.15 | $0.00 | $0.00 | $0.00 | $0.00 | $0.69 |
| (61) | | 135 | $295.53 | $271.07 | $24.46 | 9.0% | $0.00 | $23.73 | $0.00 | $0.00 | $0.00 | $0.00 | $0.73 |
| (62) | | 143 | $306.94 | $281.04 | $25.90 | 9.2% | $0.00 | $25.12 | $0.00 | $0.00 | $0.00 | $0.00 | $0.78 |
| (63) | | 153 | $321.13 | $293.43 | $27.70 | 9.4% | $0.00 | $26.87 | $0.00 | $0.00 | $0.00 | $0.00 | $0.83 |
| (64) | | 160 | $331.15 | $302.18 | $28.97 | 9.6% | $0.00 | $28.10 | $0.00 | $0.00 | $0.00 | $0.00 | $0.87 |

National Grid - RI Gas
Interim Gas Cost Recovery Filing
Bill Impact Analysis with Various Levels of Consumption:

**C & I Small:**

| | | Annual Consumption (Therms) | Mar- Oct Proposed Rates | Mar- Oct Current Rates | Mar- Oct Difference | % Chg | Difference due to: Base Rates | GCR | DAC: Base DAC | DAC: ISR | EE | LIHEAP | GET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (69) | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
| (71) | | 402 | $781.49 | $708.75 | $72.73 | 10.3% | $0.00 | $70.55 | $0.00 | $0.00 | $0.00 | $0.00 | $2.18 |
| (72) | | 444 | $836.29 | $755.95 | $80.34 | 10.6% | $0.00 | $77.93 | $0.00 | $0.00 | $0.00 | $0.00 | $2.41 |
| (73) | | 486 | $890.41 | $802.50 | $87.91 | 11.0% | $0.00 | $85.27 | $0.00 | $0.00 | $0.00 | $0.00 | $2.64 |
| (74) | | 530 | $946.69 | $850.79 | $95.90 | 11.3% | $0.00 | $93.02 | $0.00 | $0.00 | $0.00 | $0.00 | $2.88 |
| (75) | | 574 | $1,002.55 | $898.69 | $103.86 | 11.6% | $0.00 | $100.74 | $0.00 | $0.00 | $0.00 | $0.00 | $3.12 |
| (76) | **Average Customer** | **617** | **$1,053.70** | **$942.11** | **$111.59** | **11.8%** | $0.00 | $108.24 | $0.00 | $0.00 | $0.00 | $0.00 | $3.35 |
| (77) | | 660 | $1,105.38 | $985.97 | $119.41 | 12.1% | $0.00 | $115.83 | $0.00 | $0.00 | $0.00 | $0.00 | $3.58 |
| (78) | | 703 | $1,156.80 | $1,029.58 | $127.22 | 12.4% | $0.00 | $123.40 | $0.00 | $0.00 | $0.00 | $0.00 | $3.82 |
| (79) | | 746 | $1,208.16 | $1,073.18 | $134.98 | 12.6% | $0.00 | $130.93 | $0.00 | $0.00 | $0.00 | $0.00 | $4.05 |
| (80) | | 789 | $1,259.55 | $1,116.80 | $142.75 | 12.8% | $0.00 | $138.47 | $0.00 | $0.00 | $0.00 | $0.00 | $4.28 |
| (81) | | 832 | $1,310.96 | $1,160.44 | $150.53 | 13.0% | $0.00 | $146.01 | $0.00 | $0.00 | $0.00 | $0.00 | $4.52 |

**C & I Medium:**

| | | Annual Consumption (Therms) | Mar- Oct Proposed Rates | Mar- Oct Current Rates | Mar- Oct Difference | % Chg | Difference due to: Base Rates | GCR | DAC: Base DAC | DAC: ISR | EE | LIHEAP | GET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (86) | | 3,953 | $5,425.98 | $4,710.78 | $715.20 | 15.2% | $0.00 | $693.74 | $0.00 | $0.00 | $0.00 | $0.00 | $21.46 |
| (87) | | 4,378 | $5,946.89 | $5,154.77 | $792.11 | 15.4% | $0.00 | $768.35 | $0.00 | $0.00 | $0.00 | $0.00 | $23.76 |
| (88) | | 4,803 | $6,467.42 | $5,598.42 | $869.00 | 15.5% | $0.00 | $842.93 | $0.00 | $0.00 | $0.00 | $0.00 | $26.07 |
| (89) | | 5,228 | $6,988.32 | $6,042.42 | $945.90 | 15.7% | $0.00 | $917.52 | $0.00 | $0.00 | $0.00 | $0.00 | $28.38 |
| (90) | | 5,654 | $7,509.93 | $6,486.96 | $1,022.97 | 15.8% | $0.00 | $992.28 | $0.00 | $0.00 | $0.00 | $0.00 | $30.69 |
| (91) | **Average Customer** | **6,080** | **$8,031.91** | **$6,931.84** | **$1,100.06** | **15.9%** | $0.00 | $1,067.06 | $0.00 | $0.00 | $0.00 | $0.00 | $33.00 |
| (92) | | 6,506 | $8,553.55 | $7,376.43 | $1,177.11 | 16.0% | $0.00 | $1,141.80 | $0.00 | $0.00 | $0.00 | $0.00 | $35.31 |
| (93) | | 6,932 | $9,075.20 | $7,820.99 | $1,254.22 | 16.0% | $0.00 | $1,216.59 | $0.00 | $0.00 | $0.00 | $0.00 | $37.63 |
| (94) | | 7,357 | $9,596.04 | $8,264.96 | $1,331.08 | 16.1% | $0.00 | $1,291.15 | $0.00 | $0.00 | $0.00 | $0.00 | $39.93 |
| (95) | | 7,783 | $10,117.71 | $8,709.55 | $1,408.15 | 16.2% | $0.00 | $1,365.91 | $0.00 | $0.00 | $0.00 | $0.00 | $42.24 |
| (96) | | 8,208 | $10,638.57 | $9,153.51 | $1,485.06 | 16.2% | $0.00 | $1,440.51 | $0.00 | $0.00 | $0.00 | $0.00 | $44.55 |

National Grid - RI Gas
Interim Gas Cost Recovery Filing
Bill Impact Analysis with Various Levels of Consumption:

**C & I LLF Large:**

| | | Annual Consumption (Therms) | Mar- Oct Proposed Rates | Mar- Oct Current Rates | Mar- Oct Difference | % Chg | Difference due to: Base Rates | GCR | DAC: Base DAC | DAC: ISR | EE | LIHEAP | GET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (97)–(100) | | | | | | | | | | | | | |
| (101) | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
| (102) | | | | | | | | | | | | | |
| (103) | | 18,225 | $23,827.28 | $20,529.86 | $3,297.42 | 16.1% | $0.00 | $3,198.50 | $0.00 | $0.00 | $0.00 | $0.00 | $98.92 |
| (104) | | 20,186 | $26,235.33 | $22,583.13 | $3,652.21 | 16.2% | $0.00 | $3,542.64 | $0.00 | $0.00 | $0.00 | $0.00 | $109.57 |
| (105) | | 22,149 | $28,645.49 | $24,638.10 | $4,007.38 | 16.3% | $0.00 | $3,887.16 | $0.00 | $0.00 | $0.00 | $0.00 | $120.22 |
| (106) | | 24,112 | $31,055.70 | $26,693.15 | $4,362.55 | 16.3% | $0.00 | $4,231.67 | $0.00 | $0.00 | $0.00 | $0.00 | $130.88 |
| (107) | | 26,076 | $33,466.88 | $28,749.01 | $4,717.88 | 16.4% | $0.00 | $4,576.34 | $0.00 | $0.00 | $0.00 | $0.00 | $141.54 |
| (108) | **Average Customer** | **28,037** | **$35,875.04** | **$30,802.36** | **$5,072.68** | **16.5%** | $0.00 | $4,920.50 | $0.00 | $0.00 | $0.00 | $0.00 | $152.18 |
| (109) | | 29,999 | $38,283.99 | $32,856.36 | $5,427.64 | 16.5% | $0.00 | $5,264.81 | $0.00 | $0.00 | $0.00 | $0.00 | $162.83 |
| (110) | | 31,962 | $40,694.17 | $34,911.35 | $5,782.81 | 16.6% | $0.00 | $5,609.33 | $0.00 | $0.00 | $0.00 | $0.00 | $173.48 |
| (111) | | 33,925 | $43,104.76 | $36,966.78 | $6,137.98 | 16.6% | $0.00 | $5,953.84 | $0.00 | $0.00 | $0.00 | $0.00 | $184.14 |
| (112) | | 35,888 | $45,514.94 | $39,021.77 | $6,493.16 | 16.6% | $0.00 | $6,298.37 | $0.00 | $0.00 | $0.00 | $0.00 | $194.79 |
| (113) | | 37,850 | $47,924.01 | $41,075.90 | $6,848.11 | 16.7% | $0.00 | $6,642.67 | $0.00 | $0.00 | $0.00 | $0.00 | $205.44 |

**C & I HLF Large:**

| | | Annual Consumption (Therms) | Mar- Oct Proposed Rates | Mar- Oct Current Rates | Mar- Oct Difference | % Chg | Difference due to: Base Rates | GCR | DAC: Base DAC | DAC: ISR | EE | LIHEAP | GET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (114)–(117) | | | | | | | | | | | | | |
| (118) | | 30,067 | $32,961.72 | $27,518.66 | $5,443.06 | 19.8% | $0.00 | $5,279.77 | $0.00 | $0.00 | $0.00 | $0.00 | $163.29 |
| (119) | | 33,306 | $36,356.35 | $30,326.93 | $6,029.41 | 19.9% | $0.00 | $5,848.53 | $0.00 | $0.00 | $0.00 | $0.00 | $180.88 |
| (120) | | 36,546 | $39,751.88 | $33,135.91 | $6,615.97 | 20.0% | $0.00 | $6,417.49 | $0.00 | $0.00 | $0.00 | $0.00 | $198.48 |
| (121) | | 39,782 | $43,143.60 | $35,941.84 | $7,201.75 | 20.0% | $0.00 | $6,985.70 | $0.00 | $0.00 | $0.00 | $0.00 | $216.05 |
| (122) | | 43,021 | $46,538.20 | $38,750.08 | $7,788.12 | 20.1% | $0.00 | $7,554.48 | $0.00 | $0.00 | $0.00 | $0.00 | $233.64 |
| (123) | **Average Customer** | **46,260** | **$49,932.22** | **$41,557.80** | **$8,374.42** | **20.2%** | $0.00 | $8,123.19 | $0.00 | $0.00 | $0.00 | $0.00 | $251.23 |
| (124) | | 49,499 | $53,326.88 | $44,366.03 | $8,960.86 | 20.2% | $0.00 | $8,692.03 | $0.00 | $0.00 | $0.00 | $0.00 | $268.83 |
| (125) | | 52,736 | $56,719.57 | $47,172.71 | $9,546.86 | 20.2% | $0.00 | $9,260.45 | $0.00 | $0.00 | $0.00 | $0.00 | $286.41 |
| (126) | | 55,975 | $60,114.17 | $49,980.95 | $10,133.23 | 20.3% | $0.00 | $9,829.23 | $0.00 | $0.00 | $0.00 | $0.00 | $304.00 |
| (127) | | 59,213 | $63,507.80 | $52,788.43 | $10,719.37 | 20.3% | $0.00 | $10,397.79 | $0.00 | $0.00 | $0.00 | $0.00 | $321.58 |
| (128) | | 62,452 | $66,902.43 | $55,596.67 | $11,305.75 | 20.3% | $0.00 | $10,966.58 | $0.00 | $0.00 | $0.00 | $0.00 | $339.17 |

National Grid - RI Gas
Interim Gas Cost Recovery Filing
Bill Impact Analysis with Various Levels of Consumption:

**C & I LLF Extra-Large:**

| | | | | | | | Difference due to: | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Mar- Oct | Mar- Oct | | | | | | | | | |
| (129) | | Annual | Proposed | Current | Mar- Oct | | | | | | | | |
| (130) | | Consumption (Therms) | Rates | Rates | Difference | % Chg | Base Rates | GCR | DAC | | EE | LIHEAP | GET |
| (131) | | | | | | | | | Base DAC | ISR | | | |
| (132) | | | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- |
| (133) | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
| (134) | | | | | | | | | | | | | |
| (135) | | 72,940 | $76,843.74 | $63,646.87 | $13,196.88 | 20.7% | $0.00 | $12,800.97 | $0.00 | $0.00 | $0.00 | $0.00 | $395.91 |
| (136) | | 80,797 | $84,742.57 | $70,124.13 | $14,618.44 | 20.8% | $0.00 | $14,179.89 | $0.00 | $0.00 | $0.00 | $0.00 | $438.55 |
| (137) | | 88,652 | $92,639.68 | $76,600.08 | $16,039.60 | 20.9% | $0.00 | $15,558.41 | $0.00 | $0.00 | $0.00 | $0.00 | $481.19 |
| (138) | | 96,505 | $100,535.45 | $83,075.02 | $17,460.43 | 21.0% | $0.00 | $16,936.62 | $0.00 | $0.00 | $0.00 | $0.00 | $523.81 |
| (139) | | 104,363 | $108,435.14 | $89,552.95 | $18,882.19 | 21.1% | $0.00 | $18,315.72 | $0.00 | $0.00 | $0.00 | $0.00 | $566.47 |
| (140) | **Average Customer** | **112,217** | **$116,331.56** | **$96,028.36** | **$20,303.21** | **21.1%** | $0.00 | $19,694.11 | $0.00 | $0.00 | $0.00 | $0.00 | $609.10 |
| (141) | | 120,072 | $124,228.51 | $102,504.15 | $21,724.36 | 21.2% | $0.00 | $21,072.63 | $0.00 | $0.00 | $0.00 | $0.00 | $651.73 |
| (142) | | 127,927 | $132,126.00 | $108,980.44 | $23,145.56 | 21.2% | $0.00 | $22,451.19 | $0.00 | $0.00 | $0.00 | $0.00 | $694.37 |
| (143) | | 135,782 | $140,023.12 | $115,456.38 | $24,566.74 | 21.3% | $0.00 | $23,829.74 | $0.00 | $0.00 | $0.00 | $0.00 | $737.00 |
| (144) | | 143,638 | $147,921.08 | $121,932.96 | $25,988.12 | 21.3% | $0.00 | $25,208.48 | $0.00 | $0.00 | $0.00 | $0.00 | $779.64 |
| (145) | | 151,493 | $155,818.19 | $128,408.88 | $27,409.31 | 21.3% | $0.00 | $26,587.03 | $0.00 | $0.00 | $0.00 | $0.00 | $822.28 |

**C & I HLF Extra-Large:**

| | | | | | | | Difference due to: | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Mar- Oct | Mar- Oct | | | | | | | | | |
| (146) | | Annual | Proposed | Current | Mar- Oct | | | | | | | | |
| (147) | | Consumption (Therms) | Rates | Rates | Difference | % Chg | Base Rates | GCR | DAC | | EE | LIHEAP | GET |
| (148) | | | | | | | | | Base DAC | ISR | | | |
| (149) | | | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- |
| (150) | | 276,118 | $247,097.10 | $197,111.21 | $49,985.90 | 25.4% | $0.00 | $48,486.32 | $0.00 | $0.00 | $0.00 | $0.00 | $1,499.58 |
| (151) | | 305,854 | $273,329.32 | $217,960.30 | $55,369.02 | 25.4% | $0.00 | $53,707.95 | $0.00 | $0.00 | $0.00 | $0.00 | $1,661.07 |
| (152) | | 335,589 | $299,561.30 | $238,809.33 | $60,751.98 | 25.4% | $0.00 | $58,929.42 | $0.00 | $0.00 | $0.00 | $0.00 | $1,822.56 |
| (153) | | 365,325 | $325,793.52 | $259,658.38 | $66,135.14 | 25.5% | $0.00 | $64,151.09 | $0.00 | $0.00 | $0.00 | $0.00 | $1,984.05 |
| (154) | | 395,060 | $352,024.94 | $280,506.86 | $71,518.08 | 25.5% | $0.00 | $69,372.54 | $0.00 | $0.00 | $0.00 | $0.00 | $2,145.54 |
| (155) | **Average Customer** | **424,797** | **$378,258.02** | **$301,356.71** | **$76,901.31** | **25.5%** | $0.00 | $74,594.27 | $0.00 | $0.00 | $0.00 | $0.00 | $2,307.04 |
| (156) | | 454,532 | $404,489.93 | $322,205.58 | $82,284.35 | 25.5% | $0.00 | $79,815.82 | $0.00 | $0.00 | $0.00 | $0.00 | $2,468.53 |
| (157) | | 484,269 | $430,722.97 | $343,055.32 | $87,667.65 | 25.6% | $0.00 | $85,037.62 | $0.00 | $0.00 | $0.00 | $0.00 | $2,630.03 |
| (158) | | 514,004 | $456,954.95 | $363,904.32 | $93,050.63 | 25.6% | $0.00 | $90,259.11 | $0.00 | $0.00 | $0.00 | $0.00 | $2,791.52 |
| (159) | | 543,739 | $483,186.38 | $384,752.83 | $98,433.55 | 25.6% | $0.00 | $95,480.54 | $0.00 | $0.00 | $0.00 | $0.00 | $2,953.01 |
| (160) | | 573,476 | $509,419.95 | $405,603.05 | $103,816.90 | 25.6% | $0.00 | $100,702.39 | $0.00 | $0.00 | $0.00 | $0.00 | $3,114.51 |

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Division 4-26

Request:

Provide GCR factors and resulting bill impacts for residential heating customers if the recovery of the $34.4 million was changed to a 12-month recovery period from March 2018 through February 2019.

Response:

Please see Attachment DIV 4-26.

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
Factors Effective March 1, 2018
12 Month Recovery of Projected Deferral Between March 1, 2018 and February 28, 2019

| | Description | Source: Reference | Source: Line # | High Load[1] | Low Load[2] | FT-2 Mkter |
|---|---|---|---|---|---|---|
| | (a) | (b) | (c) | (d) | (e) | (f) |
| (1) | Fixed Cost Factor - $/dktherm | Approved Factor* | | $1.1342 | $1.5517 | |
| (2) | Variable Cost Factor -$/dktherm | Approved Factor | | $3.5711 | $3.5711 | |
| (3) | Total Gas Cost Recovery Charge- $/dktherm | Approved Factor | | $4.7053 | $5.1228 | |
| (4) | Projected Deferral | Page 2, (49)(l) | | $34,406,182 | $34,406,182 | |
| (5) | 12 Month Projected Throughput | GCR Filing in 4719 | | 25,914,442 | 25,914,442 | |
| (6) | Surcharge Factor | (4) ÷ (5) | | $1.3276 | $1.3276 | |
| (7) | Total Revised Gas Cost Recovery Charge | (3) + (6) | | $6.0329 | $6.4504 | |
| (8) | Uncollectible % | Docket 4323 | | 3.18% | 3.18% | |
| (9) | Total GCR Charge adjusted for Uncollectibles- $/dkdtherm | (7) ÷ [1 - (8)] | | $6.2310 | $6.6622 | |
| (10) | **GCR Charge on a per therm basis Effective March 2018 - February 2019**** | (9) ÷ 10 | | **$0.6231** | **$0.6662** | |
| (11) | Current rate effective 11/01/17* - $/therm | | | $0.4859 | $0.5291 | |
| (12) | Increase- $/therm | (10) - (11) | | $0.1372 | $0.1371 | |
| (13) | Percent Increase | (12) ÷ (11) | | 28.2% | 25.9% | |

* GCR rates approved with the Rebuttal GCR filing per Docket No. 4719 filed on October 23, 2017
**Does not include other routine changes to the GCR
[1] Includes: Residential Non Heating, Large High Load and Extra Large High Load
[2] Includes: Residential Heating, Small C&I, Medium C&I, Large Low Load, Extra Large Low Load

National Grid
Rhode Island - Gas



Deferred Gas Cost Balances

| | Description | Reference | Nov Actual | Dec Actual | Jan Forecast | Feb Forecast | Mar Forecast | Apr Forecast | May Forecast | Jun Forecast | Jul Forecast | Aug Forecast | Sep Forecast | Oct Forecast | Nov-Oct |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (1) | # of Days in Month | | 30 | 31 | 31 | 28 | 31 | 30 | 31 | 30 | 31 | 31 | 30 | 31 | 365 |
| | | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) | (m) |
| (2) | I. Fixed Cost Deferred | | | | | | | | | | | | | | |
| (3) | Beginning Under/(Over) Recovery | | $1,106,719 | $2,186,800 | $518,946 | ($5,184,717) | ($7,502,087) | ($8,961,811) | ($10,154,962) | ($9,323,349) | ($7,474,277) | ($5,189,363) | ($2,795,395) | ($502,619) | $1,106,719 |
| (4) | Supply Fixed Costs (net of cap rel) | Sch. 2, line (31) | $4,342,453 | $4,432,787 | $6,108,532 | $6,106,396 | $6,108,532 | $4,531,059 | $4,531,771 | $4,531,059 | $4,531,771 | $4,531,771 | $4,530,656 | $4,531,368 | $58,818,154 |
| (5) | System Pressure to DAC | Dkt 4719 | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($3,153,600) |
| (6) | Supply Related LNG O & M | Dkt 4323 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $575,581 |
| (7) | NGPMP Credits | | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($10,900,000) |
| (8) | Working Capital | Sch. 4, line (15) | $23,513 | $24,034 | $29,296 | $29,286 | $29,296 | $21,391 | $21,394 | $21,391 | $21,394 | $21,394 | $21,389 | $21,392 | $285,170 |
| (9) | Total Supply Fixed Costs | Sum[(4):(8)] | $3,242,798 | $3,333,652 | $5,014,660 | $5,012,513 | $5,014,660 | $3,429,281 | $3,429,997 | $3,429,281 | $3,429,997 | $3,429,997 | $3,428,876 | $3,429,592 | $45,625,304 |
| (10) | Supply Fixed - Revenue | Sch. 3, line 13 | $2,201,823 | $5,004,233 | $10,713,375 | $7,317,730 | $6,456,923 | $4,602,813 | $2,577,727 | $1,562,969 | $1,131,653 | $1,027,561 | $1,132,715 | $1,373,589 | $45,103,110 |
| (11) | Monthly Under/(Over) Recovery | (9) - (10) | $1,040,975 | ($1,670,580) | ($5,698,715) | ($2,305,217) | ($1,442,263) | ($1,173,532) | $852,270 | $1,866,312 | $2,298,344 | $2,402,436 | $2,296,161 | $2,056,003 | $522,195 |
| (12) | Prelim. Ending Under/(Over) Recovery | (3) + (11) | $2,147,693 | $516,220 | ($5,179,769) | ($7,489,934) | ($8,944,350) | ($10,135,342) | ($9,302,692) | ($7,457,037) | ($5,175,933) | ($2,786,927) | ($499,234) | $1,553,384 | $1,628,914 |
| (13) | Month's Average Balance | [(3) + (12)] / 2 | $1,627,206 | $1,351,510 | ($2,330,411) | ($6,337,325) | ($8,223,219) | ($9,548,576) | ($9,728,827) | ($8,390,193) | ($6,325,105) | ($3,988,145) | ($1,647,315) | $525,383 | |
| (14) | Interest Rate (BOA Prime minus 200 bps) | | 2.25% | 2.38% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | |
| (15) | Interest Applied | [(13) x (14)] / 365 x (1) | $3,009 | $2,726 | ($4,948) | ($12,154) | ($17,460) | ($19,620) | ($20,657) | ($17,240) | ($13,430) | ($8,468) | ($3,385) | $1,116 | ($110,512) |
| (16) | Marketer Reconcilation | Dkt 4719, AEL-7, Line (50) | $36,098 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $36,098 |
| (17) | Fixed Ending Under/(Over) Recovery | (12) + (15) + (16) | $2,186,800 | $518,946 | ($5,184,717) | ($7,502,087) | ($8,961,811) | ($10,154,962) | ($9,323,349) | ($7,474,277) | ($5,189,363) | ($2,795,395) | ($502,619) | $1,554,499 | $1,554,499 |
| (18) | II. Variable Cost Deferred | | | | | | | | | | | | | | |
| (19) | Beginning Under/(Over) Recovery | | $13,703,849 | $17,445,473 | $29,443,058 | $46,180,590 | $45,191,882 | $42,184,163 | $37,455,008 | $35,171,386 | $34,062,004 | $33,566,278 | $33,195,191 | $32,634,373 | $13,703,849 |
| (20) | Variable Supply Costs | Sch. 2, line (77) | $8,944,909 | $22,922,438 | $40,745,661 | $15,290,402 | $11,335,821 | $5,367,623 | $3,135,675 | $1,967,716 | $1,569,660 | $1,440,572 | $1,482,780 | $2,802,607 | $117,005,862 |
| (21) | Supply Related LNG to DAC | Dkt 4339 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| (22) | Supply Related LNG O & M | Dkt 4323 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $572,694 |
| (23) | Inventory Financing - LNG | Sch. 5, line (22) | $32,062 | $21,879 | $8,917 | $3,681 | $3,129 | $7,665 | $12,330 | $16,871 | $18,512 | $19,401 | $23,928 | $24,809 | $193,185 |
| (24) | Inventory Financing - UG | Sch. 5, line (12) | $80,793 | $69,463 | $43,426 | $30,391 | $18,503 | $18,804 | $27,475 | $35,906 | $41,657 | $49,189 | $61,111 | $71,358 | $548,077 |
| (25) | Working Capital | Sch. 4, line (30) | $51,554 | $132,114 | $204,200 | $76,629 | $56,810 | $26,900 | $15,715 | $9,861 | $7,866 | $7,220 | $7,431 | $14,045 | $610,345 |
| (26) | Total Supply Variable Costs | Sum[(20):(25)] | $9,157,042 | $23,193,618 | $41,049,928 | $15,448,828 | $11,461,987 | $5,468,717 | $3,238,919 | $2,078,078 | $1,685,420 | $1,564,106 | $1,622,975 | $2,960,545 | $118,930,162 |
| (27) | Supply Variable - Revenue | Sch. 3, line (30) | $5,444,194 | $11,243,274 | $24,392,597 | $16,525,069 | $14,562,370 | $10,279,609 | $5,599,562 | $3,258,518 | $2,252,867 | $2,005,995 | $2,251,356 | $2,812,684 | $100,628,096 |
| (28) | Monthly Under/(Over) Recovery | (26) - (27) | $3,712,848 | $11,950,343 | $16,657,331 | ($1,076,241) | ($3,100,383) | ($4,810,892) | ($2,360,643) | ($1,180,440) | ($567,447) | ($441,889) | ($628,381) | $147,861 | $18,302,067 |
| (29) | Prelim. Ending Under/(Over) Recovery | (19) + (28) | $17,416,697 | $29,395,816 | $46,100,390 | $45,104,349 | $42,091,499 | $37,373,271 | $35,094,365 | $33,990,947 | $33,494,557 | $33,124,389 | $32,566,810 | $32,782,234 | $32,005,916 |
| (30) | Month's Average Balance | [(19) + (29)] / 2 | $15,560,273 | $23,420,644 | $37,771,724 | $45,642,469 | $43,641,691 | $39,778,717 | $36,274,686 | $34,581,166 | $33,778,280 | $33,345,333 | $32,881,000 | $32,708,304 | |
| (31) | Interest Rate (BOA Prime minus 200 bps) | | 2.25% | 2.38% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | |
| (32) | Interest Applied | [(30) x (31)] / 365 x (1) | $28,776 | $47,242 | $80,200 | $87,534 | $92,664 | $81,737 | $77,022 | $71,057 | $71,721 | $70,802 | $67,564 | $69,449 | $845,767 |
| (33) | Gas Procurement Incentive/(penalty) | | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| (34) | Variable Ending Under/(Over) Recovery | (29) + (32) + (33) | $17,445,473 | $29,443,058 | $46,180,590 | $45,191,882 | $42,184,163 | $37,455,008 | $35,171,386 | $34,062,004 | $33,566,278 | $33,195,191 | $32,634,373 | $32,851,683 | $32,851,683 |
| (35) | **GCR Deferred Summary** | | | | | | | | | | | | | | |
| (36) | Beginning Under/(Over) Recovery | (3) + (19) | $14,810,568 | $19,632,273 | $29,962,005 | $40,995,873 | $37,689,795 | $33,222,353 | $27,300,045 | $25,848,037 | $26,587,727 | $28,376,915 | $30,399,796 | $32,131,754 | $14,810,568 |
| (37) | Gas Costs | Sum[(4):(6),(16),(20):(22)] | $13,156,349 | $27,188,114 | $46,687,083 | $21,229,687 | $17,277,242 | $9,731,571 | $7,500,335 | $6,331,664 | $5,934,321 | $5,805,232 | $5,846,325 | $7,166,864 | $173,854,788 |
| (38) | Inventory Finance | (23) + (24) | $112,855 | $91,342 | $52,343 | $34,072 | $21,632 | $26,469 | $39,805 | $52,777 | $60,169 | $68,590 | $85,040 | $96,167 | $741,261 |
| (39) | Working Capital | (8) + (25) | $75,067 | $156,147 | $233,496 | $105,914 | $86,106 | $48,291 | $37,109 | $31,252 | $29,261 | $28,614 | $28,820 | $35,438 | $895,514 |
| (40) | NGPMP Credits | (7) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($10,900,000) |
| (41) | Total Costs | Sum[(37):(40)] | $12,435,937 | $26,527,270 | $46,064,589 | $20,461,341 | $16,476,647 | $8,897,998 | $6,668,916 | $5,507,360 | $5,115,417 | $4,994,103 | $5,051,851 | $6,390,136 | $164,591,565 |
| (42) | Revenue | (10) + (27) | $7,646,017 | $16,247,507 | $35,105,972 | $23,842,799 | $21,019,293 | $14,882,422 | $8,177,289 | $4,821,487 | $3,384,520 | $3,033,556 | $3,384,071 | $4,186,273 | $145,731,205 |
| (43) | Monthly Under/(Over) Recovery | (41) - (42) | $4,789,920 | $10,279,763 | $10,958,617 | ($3,381,458) | ($4,542,646) | ($5,984,424) | ($1,508,373) | $685,873 | $1,730,897 | $1,960,547 | $1,667,780 | $2,203,863 | $18,860,359 |
| (44) | Prelim. Ending Under/(Over) Recovery | (36) + (43) | $19,600,488 | $29,912,036 | $40,920,621 | $37,614,415 | $33,147,149 | $27,237,928 | $25,791,672 | $26,533,909 | $28,318,624 | $30,337,462 | $32,067,576 | $34,335,618 | |
| (45) | Month's Average Balance | [(36) + (44)] / 2 | $17,205,528 | $24,772,154 | $35,441,313 | $39,305,144 | $35,418,472 | $30,230,141 | $26,545,859 | $26,190,973 | $27,453,175 | $29,357,188 | $31,233,686 | $33,233,686 | |
| (46) | Interest Rate (BOA Prime minus 200 bps) | | 2.25% | 2.38% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | |
| (47) | Interest Applied | (15) + (32) | $31,785 | $49,968 | $75,252 | $75,380 | $75,204 | $62,117 | $56,364 | $53,817 | $58,291 | $62,334 | $64,179 | $70,565 | $735,256 |
| (48) | Gas Purchase Plan Incentives/(Penalties) | (33) | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| **(49)** | **Ending Under/(Over) Recovery W/ Interest** | (44) + (47) + (48) | $19,632,273 | $29,962,005 | $40,995,873 | $37,689,795 | $33,222,353 | $27,300,045 | $25,848,037 | $26,587,727 | $28,376,915 | $30,399,796 | $32,131,754 | $\boxed{\$34,406,182}$ | $34,406,182 |

National Grid - RI Gas
Interim Gas Cost Recovery Filing
Bill Impact Analysis with Various Levels of Consumption:

**Residential Heating:**

| | | Annual Consumption (Therms) | Annual Proposed Rates | Annual Current Rates | Annual Difference | % Chg | Difference due to: Base Rates | GCR | DAC Base DAC | DAC ISR | EE | LIHEAP | GET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (5) | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
| (6) | | | | | | | | | | | | | |
| (7) | | 550 | $943.15 | $865.43 | $77.72 | 9.0% | $0.00 | $75.39 | $0.00 | $0.00 | $0.00 | $0.00 | $2.33 |
| (8) | | 608 | $1,024.17 | $938.24 | $85.93 | 9.2% | $0.00 | $83.35 | $0.00 | $0.00 | $0.00 | $0.00 | $2.58 |
| (9) | | 667 | $1,106.44 | $1,012.15 | $94.29 | 9.3% | $0.00 | $91.46 | $0.00 | $0.00 | $0.00 | $0.00 | $2.83 |
| (10) | | 727 | $1,188.99 | $1,086.24 | $102.75 | 9.5% | $0.00 | $99.67 | $0.00 | $0.00 | $0.00 | $0.00 | $3.08 |
| (11) | | 788 | $1,269.98 | $1,158.59 | $111.39 | 9.6% | $0.00 | $108.05 | $0.00 | $0.00 | $0.00 | $0.00 | $3.34 |
| (12) | **Average Customer** | **846** | **$1,345.48** | **$1,225.94** | **$119.55** | **9.8%** | $0.00 | $115.96 | $0.00 | $0.00 | $0.00 | $0.00 | $3.59 |
| (13) | | 904 | $1,421.35 | $1,293.57 | $127.78 | 9.9% | $0.00 | $123.95 | $0.00 | $0.00 | $0.00 | $0.00 | $3.83 |
| (14) | | 966 | $1,502.14 | $1,365.61 | $136.54 | 10.0% | $0.00 | $132.44 | $0.00 | $0.00 | $0.00 | $0.00 | $4.10 |
| (15) | | 1,023 | $1,576.25 | $1,431.64 | $144.61 | 10.1% | $0.00 | $140.27 | $0.00 | $0.00 | $0.00 | $0.00 | $4.34 |
| (16) | | 1,081 | $1,650.95 | $1,498.14 | $152.81 | 10.2% | $0.00 | $148.23 | $0.00 | $0.00 | $0.00 | $0.00 | $4.58 |
| (17) | | 1,145 | $1,732.28 | $1,570.46 | $161.82 | 10.3% | $0.00 | $156.97 | $0.00 | $0.00 | $0.00 | $0.00 | $4.85 |

**Residential Heating Low Income:**

| | | Annual Consumption (Therms) | Annual Proposed Rates | Annual Current Rates | Annual Difference | % Chg | Difference due to: Base Rates | GCR | DAC Base DAC | DAC ISR | EE | LIHEAP | GET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (22) | | 550 | $900.66 | $822.93 | $77.72 | 9.4% | $0.00 | $75.39 | $0.00 | $0.00 | $0.00 | $0.00 | $2.33 |
| (23) | | 608 | $978.93 | $893.01 | $85.93 | 9.6% | $0.00 | $83.35 | $0.00 | $0.00 | $0.00 | $0.00 | $2.58 |
| (24) | | 667 | $1,058.43 | $964.14 | $94.29 | 9.8% | $0.00 | $91.46 | $0.00 | $0.00 | $0.00 | $0.00 | $2.83 |
| (25) | | 727 | $1,138.27 | $1,035.52 | $102.75 | 9.9% | $0.00 | $99.67 | $0.00 | $0.00 | $0.00 | $0.00 | $3.08 |
| (26) | | 788 | $1,216.80 | $1,105.41 | $111.39 | 10.1% | $0.00 | $108.05 | $0.00 | $0.00 | $0.00 | $0.00 | $3.34 |
| (27) | **Average Customer** | **846** | **$1,290.08** | **$1,170.54** | **$119.55** | **10.2%** | $0.00 | $115.96 | $0.00 | $0.00 | $0.00 | $0.00 | $3.59 |
| (28) | | 904 | $1,363.75 | $1,235.97 | $127.78 | 10.3% | $0.00 | $123.95 | $0.00 | $0.00 | $0.00 | $0.00 | $3.83 |
| (29) | | 966 | $1,442.19 | $1,305.65 | $136.54 | 10.5% | $0.00 | $132.44 | $0.00 | $0.00 | $0.00 | $0.00 | $4.10 |
| (30) | | 1,023 | $1,514.15 | $1,369.54 | $144.61 | 10.6% | $0.00 | $140.27 | $0.00 | $0.00 | $0.00 | $0.00 | $4.34 |
| (31) | | 1,081 | $1,586.74 | $1,433.93 | $152.81 | 10.7% | $0.00 | $148.23 | $0.00 | $0.00 | $0.00 | $0.00 | $4.58 |
| (32) | | 1,145 | $1,665.85 | $1,504.02 | $161.82 | 10.8% | $0.00 | $156.97 | $0.00 | $0.00 | $0.00 | $0.00 | $4.85 |

National Grid - RI Gas
Interim Gas Cost Recovery Filing
Bill Impact Analysis with Various Levels of Consumption:

**Residential Non-Heating:**

| | | | Annual | Annual | | | Difference due to: | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (33) | | Annual | Proposed | Current | Annual | | | | | | | | |
| (34) | | Consumption (Therms) | Rates | Rates | Difference | % Chg | Base Rates | GCR | DAC | | EE | LIHEAP | GET |
| (35) | | | | | | | | | Base DAC | ISR | | | |
| (36) | | | | | | | | | | | | | |
| (37) | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
| (38) | | | | | | | | | | | | | |
| (39) | | 140 | $371.11 | $351.31 | $19.79 | 5.6% | $0.00 | $19.20 | $0.00 | $0.00 | $0.00 | $0.00 | $0.59 |
| (40) | | 155 | $392.57 | $370.63 | $21.94 | 5.9% | $0.00 | $21.28 | $0.00 | $0.00 | $0.00 | $0.00 | $0.66 |
| (41) | | 171 | $415.47 | $391.31 | $24.16 | 6.2% | $0.00 | $23.44 | $0.00 | $0.00 | $0.00 | $0.00 | $0.72 |
| (42) | | 184 | $434.03 | $408.01 | $26.02 | 6.4% | $0.00 | $25.24 | $0.00 | $0.00 | $0.00 | $0.00 | $0.78 |
| (43) | | 198 | $454.06 | $426.05 | $28.01 | 6.6% | $0.00 | $27.17 | $0.00 | $0.00 | $0.00 | $0.00 | $0.84 |
| (44) | **Average Customer** | 214 | **$476.50** | **$446.25** | **$30.25** | **6.8%** | $0.00 | $29.34 | $0.00 | $0.00 | $0.00 | $0.00 | $0.91 |
| (45) | | 228 | $496.96 | $464.70 | $32.26 | 6.9% | $0.00 | $31.29 | $0.00 | $0.00 | $0.00 | $0.00 | $0.97 |
| (46) | | 244 | $519.87 | $485.35 | $34.53 | 7.1% | $0.00 | $33.49 | $0.00 | $0.00 | $0.00 | $0.00 | $1.04 |
| (47) | | 258 | $539.91 | $503.42 | $36.48 | 7.2% | $0.00 | $35.39 | $0.00 | $0.00 | $0.00 | $0.00 | $1.09 |
| (48) | | 275 | $564.19 | $525.28 | $38.91 | 7.4% | $0.00 | $37.74 | $0.00 | $0.00 | $0.00 | $0.00 | $1.17 |
| (49) | | 288 | $582.80 | $542.09 | $40.71 | 7.5% | $0.00 | $39.49 | $0.00 | $0.00 | $0.00 | $0.00 | $1.22 |

**Residential Non-Heating Low Income:**

| | | | Annual | Annual | | | Difference due to: | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (50) | | Annual | Proposed | Current | Annual | | | | | | | | |
| (51) | | Consumption (Therms) | Rates | Rates | Difference | % Chg | Base Rates | GCR | DAC | | EE | LIHEAP | GET |
| (52) | | | | | | | | | Base DAC | ISR | | | |
| (53) | | | | | | | | | | | | | |
| (54) | | 140 | $348.69 | $328.89 | $19.79 | 6.0% | $0.00 | $19.20 | $0.00 | $0.00 | $0.00 | $0.00 | $0.59 |
| (55) | | 155 | $369.47 | $347.53 | $21.94 | 6.3% | $0.00 | $21.28 | $0.00 | $0.00 | $0.00 | $0.00 | $0.66 |
| (56) | | 171 | $391.65 | $367.49 | $24.16 | 6.6% | $0.00 | $23.44 | $0.00 | $0.00 | $0.00 | $0.00 | $0.72 |
| (57) | | 184 | $409.62 | $383.60 | $26.02 | 6.8% | $0.00 | $25.24 | $0.00 | $0.00 | $0.00 | $0.00 | $0.78 |
| (58) | | 198 | $429.02 | $401.01 | $28.01 | 7.0% | $0.00 | $27.17 | $0.00 | $0.00 | $0.00 | $0.00 | $0.84 |
| (59) | **Average Customer** | **214** | **$450.75** | **$420.50** | **$30.25** | **7.2%** | $0.00 | $29.34 | $0.00 | $0.00 | $0.00 | $0.00 | $0.91 |
| (60) | | 228 | $470.56 | $438.30 | $32.26 | 7.4% | $0.00 | $31.29 | $0.00 | $0.00 | $0.00 | $0.00 | $0.97 |
| (61) | | 244 | $492.75 | $458.22 | $34.53 | 7.5% | $0.00 | $33.49 | $0.00 | $0.00 | $0.00 | $0.00 | $1.04 |
| (62) | | 258 | $512.15 | $475.66 | $36.48 | 7.7% | $0.00 | $35.39 | $0.00 | $0.00 | $0.00 | $0.00 | $1.09 |
| (63) | | 275 | $535.66 | $496.76 | $38.91 | 7.8% | $0.00 | $37.74 | $0.00 | $0.00 | $0.00 | $0.00 | $1.17 |
| (64) | | 288 | $553.68 | $512.97 | $40.71 | 7.9% | $0.00 | $39.49 | $0.00 | $0.00 | $0.00 | $0.00 | $1.22 |

National Grid - RI Gas
Interim Gas Cost Recovery Filing
Bill Impact Analysis with Various Levels of Consumption:

**C & I Small:**

| | | | | | | | Difference due to: | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (65) | | Annual | Annual Proposed | Annual Current | Annual | | | | | | | | |
| (66) | | Consumption (Therms) | Rates | Rates | Difference | % Chg | Base Rates | GCR | DAC | | EE | LIHEAP | GET |
| (67) | | | | | | | | | Base DAC | ISR | | | |
| (68) | | | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- |
| (69) | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
| (70) | | | | | | | | | | | | | |
| (71) | | 880 | $1,548.27 | $1,423.88 | $124.39 | 8.7% | $0.00 | $120.66 | $0.00 | $0.00 | $0.00 | $0.00 | $3.73 |
| (72) | | 973 | $1,665.59 | $1,528.05 | $137.54 | 9.0% | $0.00 | $133.41 | $0.00 | $0.00 | $0.00 | $0.00 | $4.13 |
| (73) | | 1,067 | $1,783.46 | $1,632.64 | $150.81 | 9.2% | $0.00 | $146.29 | $0.00 | $0.00 | $0.00 | $0.00 | $4.52 |
| (74) | | 1,162 | $1,901.85 | $1,737.61 | $164.24 | 9.5% | $0.00 | $159.31 | $0.00 | $0.00 | $0.00 | $0.00 | $4.93 |
| (75) | | 1,258 | $2,019.35 | $1,841.55 | $177.79 | 9.7% | $0.00 | $172.46 | $0.00 | $0.00 | $0.00 | $0.00 | $5.33 |
| (76) | **Average Customer** | **1,352** | **$2,129.38** | **$1,938.32** | **$191.05** | **9.9%** | $0.00 | $185.32 | $0.00 | $0.00 | $0.00 | $0.00 | $5.73 |
| (77) | | 1,446 | $2,239.97 | $2,035.60 | $204.37 | 10.0% | $0.00 | $198.24 | $0.00 | $0.00 | $0.00 | $0.00 | $6.13 |
| (78) | | 1,542 | $2,352.56 | $2,134.61 | $217.95 | 10.2% | $0.00 | $211.41 | $0.00 | $0.00 | $0.00 | $0.00 | $6.54 |
| (79) | | 1,635 | $2,461.68 | $2,230.59 | $231.09 | 10.4% | $0.00 | $224.16 | $0.00 | $0.00 | $0.00 | $0.00 | $6.93 |
| (80) | | 1,730 | $2,573.13 | $2,328.61 | $244.52 | 10.5% | $0.00 | $237.18 | $0.00 | $0.00 | $0.00 | $0.00 | $7.34 |
| (81) | | 1,825 | $2,684.60 | $2,426.64 | $257.96 | 10.6% | $0.00 | $250.22 | $0.00 | $0.00 | $0.00 | $0.00 | $7.74 |

**C & I Medium:**

| | | | | | | | Difference due to: | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (82) | | Annual | Annual Proposed | Annual Current | Annual | | | | | | | | |
| (83) | | Consumption (Therms) | Rates | Rates | Difference | % Chg | Base Rates | GCR | DAC | | EE | LIHEAP | GET |
| (84) | | | | | | | | | Base DAC | ISR | | | |
| (85) | | | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- |
| (86) | | 7,941 | $10,038.10 | $8,915.71 | $1,122.39 | 12.6% | $0.00 | $1,088.72 | $0.00 | $0.00 | $0.00 | $0.00 | $33.67 |
| (87) | | 8,796 | $11,024.95 | $9,781.70 | $1,243.26 | 12.7% | $0.00 | $1,205.96 | $0.00 | $0.00 | $0.00 | $0.00 | $37.30 |
| (88) | | 9,650 | $12,010.15 | $10,646.23 | $1,363.92 | 12.8% | $0.00 | $1,323.00 | $0.00 | $0.00 | $0.00 | $0.00 | $40.92 |
| (89) | | 10,505 | $12,997.01 | $11,512.22 | $1,484.79 | 12.9% | $0.00 | $1,440.25 | $0.00 | $0.00 | $0.00 | $0.00 | $44.54 |
| (90) | | 11,361 | $13,984.31 | $12,378.55 | $1,605.76 | 13.0% | $0.00 | $1,557.59 | $0.00 | $0.00 | $0.00 | $0.00 | $48.17 |
| (91) | **Average Customer** | **12,217** | **$14,971.89** | **$13,245.15** | **$1,726.74** | **13.0%** | $0.00 | $1,674.94 | $0.00 | $0.00 | $0.00 | $0.00 | $51.80 |
| (92) | | 13,073 | $15,959.53 | $14,111.82 | $1,847.71 | 13.1% | $0.00 | $1,792.28 | $0.00 | $0.00 | $0.00 | $0.00 | $55.43 |
| (93) | | 13,928 | $16,945.83 | $14,977.24 | $1,968.59 | 13.1% | $0.00 | $1,909.53 | $0.00 | $0.00 | $0.00 | $0.00 | $59.06 |
| (94) | | 14,782 | $17,931.60 | $15,842.32 | $2,089.29 | 13.2% | $0.00 | $2,026.61 | $0.00 | $0.00 | $0.00 | $0.00 | $62.68 |
| (95) | | 15,637 | $18,917.91 | $16,707.77 | $2,210.13 | 13.2% | $0.00 | $2,143.83 | $0.00 | $0.00 | $0.00 | $0.00 | $66.30 |
| (96) | | 16,492 | $19,904.72 | $17,573.74 | $2,330.98 | 13.3% | $0.00 | $2,261.05 | $0.00 | $0.00 | $0.00 | $0.00 | $69.93 |

National Grid - RI Gas
Interim Gas Cost Recovery Filing
Bill Impact Analysis with Various Levels of Consumption:

**C & I LLF Large:**

| | | | Annual | Annual | | | Difference due to: | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (97) | | Annual | Proposed | Current | Annual | | | | | | | | |
| (98) | | Consumption (Therms) | Rates | Rates | Difference | % Chg | Base Rates | GCR | DAC | | EE | LIHEAP | GET |
| (99) | | | | | | | | | Base DAC | ISR | | | |
| (100) | | | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- |
| (101) | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
| (102) | | | | | | | | | | | | | |
| (103) | | 41,066 | $48,876.88 | $43,072.60 | $5,804.28 | 13.5% | $0.00 | $5,630.15 | $0.00 | $0.00 | $0.00 | $0.00 | $174.13 |
| (104) | | 45,488 | $53,905.81 | $47,476.54 | $6,429.27 | 13.5% | $0.00 | $6,236.39 | $0.00 | $0.00 | $0.00 | $0.00 | $192.88 |
| (105) | | 49,910 | $58,934.70 | $51,880.39 | $7,054.31 | 13.6% | $0.00 | $6,842.68 | $0.00 | $0.00 | $0.00 | $0.00 | $211.63 |
| (106) | | 54,334 | $63,965.69 | $56,286.11 | $7,679.58 | 13.6% | $0.00 | $7,449.19 | $0.00 | $0.00 | $0.00 | $0.00 | $230.39 |
| (107) | | 58,757 | $68,995.57 | $60,690.83 | $8,304.73 | 13.7% | $0.00 | $8,055.59 | $0.00 | $0.00 | $0.00 | $0.00 | $249.14 |
| (108) | **Average Customer** | **63,179** | **$74,024.57** | **$65,094.85** | **$8,929.72** | **13.7%** | $0.00 | $8,661.83 | $0.00 | $0.00 | $0.00 | $0.00 | $267.89 |
| (109) | | 67,600 | $79,052.34 | $69,497.73 | $9,554.61 | 13.7% | $0.00 | $9,267.97 | $0.00 | $0.00 | $0.00 | $0.00 | $286.64 |
| (110) | | 72,023 | $84,082.27 | $73,902.51 | $10,179.76 | 13.8% | $0.00 | $9,874.37 | $0.00 | $0.00 | $0.00 | $0.00 | $305.39 |
| (111) | | 76,447 | $89,113.82 | $78,308.77 | $10,805.04 | 13.8% | $0.00 | $10,480.89 | $0.00 | $0.00 | $0.00 | $0.00 | $324.15 |
| (112) | | 80,870 | $94,143.75 | $82,713.54 | $11,430.22 | 13.8% | $0.00 | $11,087.31 | $0.00 | $0.00 | $0.00 | $0.00 | $342.91 |
| (113) | | 85,292 | $99,172.61 | $87,117.44 | $12,055.18 | 13.8% | $0.00 | $11,693.52 | $0.00 | $0.00 | $0.00 | $0.00 | $361.66 |

**C & I HLF Large:**

| | | | Annual | Annual | | | Difference due to: | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (114) | | Annual | Proposed | Current | Annual | | | | | | | | |
| (115) | | Consumption (Therms) | Rates | Rates | Difference | % Chg | Base Rates | GCR | DAC | | EE | LIHEAP | GET |
| (116) | | | | | | | | | Base DAC | ISR | | | |
| (117) | | | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- |
| (118) | | 50,411 | $52,483.15 | $45,352.84 | $7,130.31 | 15.7% | $0.00 | $6,916.40 | $0.00 | $0.00 | $0.00 | $0.00 | $213.91 |
| (119) | | 55,841 | $57,902.11 | $50,003.77 | $7,898.34 | 15.8% | $0.00 | $7,661.39 | $0.00 | $0.00 | $0.00 | $0.00 | $236.95 |
| (120) | | 61,273 | $63,322.83 | $54,656.14 | $8,666.69 | 15.9% | $0.00 | $8,406.69 | $0.00 | $0.00 | $0.00 | $0.00 | $260.00 |
| (121) | | 66,699 | $68,738.08 | $59,303.94 | $9,434.13 | 15.9% | $0.00 | $9,151.11 | $0.00 | $0.00 | $0.00 | $0.00 | $283.02 |
| (122) | | 72,129 | $74,157.01 | $63,954.83 | $10,202.18 | 16.0% | $0.00 | $9,896.11 | $0.00 | $0.00 | $0.00 | $0.00 | $306.07 |
| (123) | **Average Customer** | **77,558** | **$79,575.01** | **$68,604.88** | **$10,970.13** | **16.0%** | $0.00 | $10,641.03 | $0.00 | $0.00 | $0.00 | $0.00 | $329.10 |
| (124) | | 82,989 | $84,994.04 | $73,255.80 | $11,738.24 | 16.0% | $0.00 | $11,386.09 | $0.00 | $0.00 | $0.00 | $0.00 | $352.15 |
| (125) | | 88,416 | $90,410.22 | $77,904.35 | $12,505.88 | 16.1% | $0.00 | $12,130.70 | $0.00 | $0.00 | $0.00 | $0.00 | $375.18 |
| (126) | | 93,847 | $95,830.05 | $82,556.01 | $13,274.04 | 16.1% | $0.00 | $12,875.82 | $0.00 | $0.00 | $0.00 | $0.00 | $398.22 |
| (127) | | 99,275 | $101,247.13 | $87,205.34 | $14,041.79 | 16.1% | $0.00 | $13,620.54 | $0.00 | $0.00 | $0.00 | $0.00 | $421.25 |
| (128) | | 104,705 | $106,666.07 | $91,856.25 | $14,809.82 | 16.1% | $0.00 | $14,365.53 | $0.00 | $0.00 | $0.00 | $0.00 | $444.29 |

National Grid - RI Gas
Interim Gas Cost Recovery Filing
Bill Impact Analysis with Various Levels of Consumption:

**C & I LLF Extra-Large:**

| Line | | Annual Consumption (Therms) | Annual Proposed Rates | Annual Current Rates | Annual Difference | % Chg | Difference due to: Base Rates | GCR | DAC: Base DAC | DAC: ISR | EE | LIHEAP | GET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (133) | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
| (134) | | | | | | | | | | | | | |
| (135) | | 174,357 | $163,802.54 | $139,158.89 | $24,643.65 | 17.7% | $0.00 | $23,904.34 | $0.00 | $0.00 | $0.00 | $0.00 | $739.31 |
| (136) | | 193,136 | $180,877.05 | $153,579.15 | $27,297.90 | 17.8% | $0.00 | $26,478.96 | $0.00 | $0.00 | $0.00 | $0.00 | $818.94 |
| (137) | | 211,912 | $197,949.16 | $167,997.47 | $29,951.69 | 17.8% | $0.00 | $29,053.14 | $0.00 | $0.00 | $0.00 | $0.00 | $898.55 |
| (138) | | 230,688 | $215,021.75 | $182,416.28 | $32,605.46 | 17.9% | $0.00 | $31,627.30 | $0.00 | $0.00 | $0.00 | $0.00 | $978.16 |
| (139) | | 249,466 | $232,095.50 | $196,835.92 | $35,259.59 | 17.9% | $0.00 | $34,201.80 | $0.00 | $0.00 | $0.00 | $0.00 | $1,057.79 |
| (140) | **Average Customer** | **268,243** | **$249,168.23** | **$211,254.75** | **$37,913.48** | **17.9%** | $0.00 | $36,776.08 | $0.00 | $0.00 | $0.00 | $0.00 | $1,137.40 |
| (141) | | 287,018 | $266,239.64 | $225,672.45 | $40,567.20 | 18.0% | $0.00 | $39,350.18 | $0.00 | $0.00 | $0.00 | $0.00 | $1,217.02 |
| (142) | | 305,796 | $283,313.92 | $240,092.67 | $43,221.26 | 18.0% | $0.00 | $41,924.62 | $0.00 | $0.00 | $0.00 | $0.00 | $1,296.64 |
| (143) | | 324,573 | $300,386.84 | $254,511.64 | $45,875.21 | 18.0% | $0.00 | $44,498.95 | $0.00 | $0.00 | $0.00 | $0.00 | $1,376.26 |
| (144) | | 343,350 | $317,459.69 | $268,930.54 | $48,529.14 | 18.0% | $0.00 | $47,073.27 | $0.00 | $0.00 | $0.00 | $0.00 | $1,455.87 |
| (145) | | 362,127 | $334,532.60 | $283,349.47 | $51,183.12 | 18.1% | $0.00 | $49,647.63 | $0.00 | $0.00 | $0.00 | $0.00 | $1,535.49 |

**C & I HLF Extra-Large:**

| Line | | Annual Consumption (Therms) | Annual Proposed Rates | Annual Current Rates | Annual Difference | % Chg | Difference due to: Base Rates | GCR | DAC: Base DAC | DAC: ISR | EE | LIHEAP | GET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (149) | | | | | | | | | | | | | |
| (150) | | 447,421 | $379,456.54 | $316,171.85 | $63,284.69 | 20.0% | $0.00 | $61,386.15 | $0.00 | $0.00 | $0.00 | $0.00 | $1,898.54 |
| (151) | | 495,605 | $419,753.65 | $349,653.65 | $70,100.00 | 20.0% | $0.00 | $67,997.00 | $0.00 | $0.00 | $0.00 | $0.00 | $2,103.00 |
| (152) | | 543,789 | $460,051.55 | $383,136.26 | $76,915.29 | 20.1% | $0.00 | $74,607.83 | $0.00 | $0.00 | $0.00 | $0.00 | $2,307.46 |
| (153) | | 591,972 | $500,347.88 | $416,617.40 | $83,730.48 | 20.1% | $0.00 | $81,218.57 | $0.00 | $0.00 | $0.00 | $0.00 | $2,511.91 |
| (154) | | 640,155 | $540,644.24 | $450,098.59 | $90,545.65 | 20.1% | $0.00 | $87,829.28 | $0.00 | $0.00 | $0.00 | $0.00 | $2,716.37 |
| (155) | **Average Customer** | **688,340** | **$580,942.58** | **$483,581.51** | **$97,361.06** | **20.1%** | $0.00 | $94,440.23 | $0.00 | $0.00 | $0.00 | $0.00 | $2,920.83 |
| (156) | | 736,523 | $621,239.22 | $517,062.98 | $104,176.24 | 20.1% | $0.00 | $101,050.95 | $0.00 | $0.00 | $0.00 | $0.00 | $3,125.29 |
| (157) | | 784,708 | $661,537.12 | $550,545.44 | $110,991.68 | 20.2% | $0.00 | $107,661.93 | $0.00 | $0.00 | $0.00 | $0.00 | $3,329.75 |
| (158) | | 832,891 | $701,834.25 | $584,027.39 | $117,806.86 | 20.2% | $0.00 | $114,272.65 | $0.00 | $0.00 | $0.00 | $0.00 | $3,534.21 |
| (159) | | 881,074 | $742,130.58 | $617,508.61 | $124,621.97 | 20.2% | $0.00 | $120,883.31 | $0.00 | $0.00 | $0.00 | $0.00 | $3,738.66 |
| (160) | | 929,259 | $782,429.29 | $650,991.82 | $131,437.46 | 20.2% | $0.00 | $127,494.34 | $0.00 | $0.00 | $0.00 | $0.00 | $3,943.12 |

Division 4-27

Request:

Provide GCR factors and resulting bill impacts for residential heating customers if the recovery of the $34.4 million was changed to a 13-month recovery period from March 2018 through March 2019.

Response:

Please see Attachment DIV 4-27.

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
Factors Effective March 1, 2018
13 Month Recovery of Projected Deferral Between March 1, 2018 and March 31, 2019

| | Description (a) | Source: Reference (b) | Source: Line # (c) | High Load[1] (d) | Low Load[2] (e) | FT-2 Mkter (f) |
|---|---|---|---|---|---|---|
| (1) | Fixed Cost Factor - $/dktherm | Approved Factor* | | $1.1342 | $1.5517 | |
| (2) | Variable Cost Factor -$/dktherm | Approved Factor | | $3.5711 | $3.5711 | |
| (3) | Total Gas Cost Recovery Charge- $/dktherm | Approved Factor | | $4.7053 | $5.1228 | |
| (4) | Projected Deferral | Page 2, Line (49)(l) | | $34,406,182 | $34,406,182 | |
| (5) | 13 Month Projected Throughput | GCR Filing in 4719 | | 29,992,281 | 29,992,281 | |
| (6) | Surcharge Factor | Line (4) ÷ Line (5) | | $1.1472 | $1.1472 | |
| (7) | Total Revised Gas Cost Recovery Charge | Line (3) +Line (6) | | $5.8525 | $6.2700 | |
| (8) | Uncollectible % | Docket 4323 | | 3.18% | 3.18% | |
| (9) | Total GCR Charge adjusted for Uncollectibles- $/dkdtherm | (7) ÷ [1 - (8)] | | $6.0446 | $6.4759 | |
| (10) | **GCR Charge on a per therm basis Effective March 2018 - March 2019**** | (9) ÷ 10 | | **$0.6044** | **$0.6475** | |
| (11) | Current rate effective 11/01/17* - $/therm | | | $0.4859 | $0.5291 | |
| (12) | Increase- $/therm | (10) - (11) | | $0.1185 | $0.1184 | |
| (13) | Percent Increase | (12) ÷ (11) | | 24.4% | 22.4% | |

* GCR rates approved with the Rebuttal GCR filing per Docket No. 4719 filed on October 23, 2017
**Does not include other routine changes to the GCR
[1] Includes: Residential Non Heating, Large High Load and Extra Large High Load
[2] Includes: Residential Heating, Small C&I, Medium C&I, Large Low Load, Extra Large Low Load

National Grid
Rhode Island - Gas



Deferred Gas Cost Balances

| | Description | Reference | Nov Actual | Dec Actual | Jan Forecast | Feb Forecast | Mar Forecast | Apr Forecast | May Forecast | Jun Forecast | Jul Forecast | Aug Forecast | Sep Forecast | Oct Forecast | Nov-Oct |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (1) | # of Days in Month | | 30 | 31 | 31 | 28 | 31 | 30 | 31 | 30 | 31 | 31 | 30 | 31 | 365 |
| | | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) | (m) |
| (2) | I. Fixed Cost Deferred | | | | | | | | | | | | | | |
| (3) | Beginning Under/(Over) Recovery | | $1,106,719 | $2,186,800 | $518,946 | ($5,184,717) | ($7,502,087) | ($8,961,811) | ($10,154,962) | ($9,323,349) | ($7,474,277) | ($5,189,363) | ($2,795,395) | ($502,619) | $1,106,719 |
| (4) | Supply Fixed Costs (net of cap rel) | Sch. 2, line (31) | $4,342,453 | $4,432,787 | $6,108,532 | $6,106,396 | $6,108,532 | $4,531,059 | $4,531,771 | $4,531,059 | $4,531,771 | $4,531,771 | $4,530,656 | $4,531,368 | $58,818,154 |
| (5) | System Pressure to DAC | Dkt 4719 | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($262,800) | ($3,153,600) |
| (6) | Supply Related LNG O & M | Dkt 4323 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $47,965 | $575,581 |
| (7) | NGPMP Credits | | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($10,900,000) |
| (8) | Working Capital | Sch. 4, line (15) | $23,513 | $24,034 | $29,296 | $29,286 | $29,296 | $21,391 | $21,394 | $21,391 | $21,394 | $21,394 | $21,389 | $21,392 | $285,170 |
| (9) | Total Supply Fixed Costs | Sum[(4):(8)] | $3,242,798 | $3,333,652 | $5,014,660 | $5,012,513 | $5,014,660 | $3,429,281 | $3,429,997 | $3,429,281 | $3,429,997 | $3,429,997 | $3,428,876 | $3,429,592 | $45,625,304 |
| (10) | Supply Fixed - Revenue | Sch. 3, line 13 | $2,201,823 | $5,004,233 | $10,713,375 | $7,317,730 | $6,456,923 | $4,602,813 | $2,577,727 | $1,562,969 | $1,131,653 | $1,027,561 | $1,132,715 | $1,373,589 | $45,103,110 |
| (11) | Monthly Under/(Over) Recovery | (9) - (10) | $1,040,975 | ($1,670,580) | ($5,698,715) | ($2,305,217) | ($1,442,263) | ($1,173,532) | $852,270 | $1,866,312 | $2,298,344 | $2,402,436 | $2,296,161 | $2,056,003 | $522,195 |
| (12) | Prelim. Ending Under/(Over) Recovery | (3) + (11) | $2,147,693 | $516,220 | ($5,179,769) | ($7,489,934) | ($8,944,350) | ($10,135,342) | ($9,302,692) | ($7,457,037) | ($5,175,933) | ($2,786,927) | ($499,234) | $1,553,384 | $1,628,914 |
| (13) | Month's Average Balance | [(3) + (12)] / 2 | $1,627,206 | $1,351,510 | ($2,330,411) | ($6,337,325) | ($8,223,219) | ($9,548,576) | ($9,728,827) | ($8,390,193) | ($6,325,105) | ($3,988,145) | ($1,647,315) | $525,383 | |
| (14) | Interest Rate (BOA Prime minus 200 bps) | | 2.25% | 2.38% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | |
| (15) | Interest Applied | [(13) x (14)] / 365 x (1) | $3,009 | $2,726 | ($4,948) | ($12,154) | ($17,460) | ($19,620) | ($20,657) | ($17,240) | ($13,430) | ($8,468) | ($3,385) | $1,116 | ($110,512) |
| (16) | Marketer Reconcilation | Dkt 4719, AEL-7, Line (50) | $36,098 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $36,098 |
| (17) | Fixed Ending Under/(Over) Recovery | (12) + (15) + (16) | $2,186,800 | $518,946 | ($5,184,717) | ($7,502,087) | ($8,961,811) | ($10,154,962) | ($9,323,349) | ($7,474,277) | ($5,189,363) | ($2,795,395) | ($502,619) | $1,554,499 | $1,554,499 |
| (18) | II. Variable Cost Deferred | | | | | | | | | | | | | | |
| (19) | Beginning Under/(Over) Recovery | | $13,703,849 | $17,445,473 | $29,443,058 | $46,180,590 | $45,191,882 | $42,184,163 | $37,455,008 | $35,171,386 | $34,062,004 | $33,566,278 | $33,195,191 | $32,634,373 | $13,703,849 |
| (20) | Variable Supply Costs | Sch. 2, line (77) | $8,944,909 | $22,922,438 | $40,745,661 | $15,290,402 | $11,335,821 | $5,367,623 | $3,135,675 | $1,967,716 | $1,569,660 | $1,440,572 | $1,482,780 | $2,802,607 | $117,005,862 |
| (21) | Supply Related LNG to DAC | Dkt 4339 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| (22) | Supply Related LNG O & M | Dkt 4323 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $47,725 | $572,694 |
| (23) | Inventory Financing - LNG | Sch. 5, line (22) | $32,062 | $21,879 | $8,917 | $3,681 | $3,129 | $7,665 | $12,330 | $16,871 | $18,512 | $19,401 | $23,928 | $24,809 | $193,185 |
| (24) | Inventory Financing - UG | Sch. 5, line (12) | $80,793 | $69,463 | $43,426 | $30,391 | $18,503 | $18,804 | $27,475 | $35,906 | $41,657 | $49,189 | $61,111 | $71,358 | $548,077 |
| (25) | Working Capital | Sch. 4, line (30) | $51,554 | $132,114 | $204,200 | $76,629 | $56,810 | $26,900 | $15,715 | $9,861 | $7,866 | $7,220 | $7,431 | $14,045 | $610,345 |
| (26) | Total Supply Variable Costs | Sum[(20):(25)] | $9,157,042 | $23,193,618 | $41,049,928 | $15,448,828 | $11,461,987 | $5,468,717 | $3,238,919 | $2,078,078 | $1,685,420 | $1,564,106 | $1,622,975 | $2,960,545 | $118,930,162 |
| (27) | Supply Variable - Revenue | Sch. 3, line (30) | $5,444,194 | $11,243,274 | $24,392,597 | $16,525,069 | $14,562,370 | $10,279,609 | $5,599,562 | $3,258,518 | $2,252,867 | $2,005,995 | $2,251,356 | $2,812,684 | $100,628,096 |
| (28) | Monthly Under/(Over) Recovery | (26) - (27) | $3,712,848 | $11,950,343 | $16,657,331 | ($1,076,241) | ($3,100,383) | ($4,810,892) | ($2,360,643) | ($1,180,440) | ($567,447) | ($441,889) | ($628,381) | $147,861 | $18,302,067 |
| (29) | Prelim. Ending Under/(Over) Recovery | (19) + (28) | $17,416,697 | $29,395,816 | $46,100,390 | $45,104,349 | $42,091,499 | $37,373,271 | $35,094,365 | $33,990,947 | $33,494,557 | $33,124,389 | $32,566,810 | $32,782,234 | $32,005,916 |
| (30) | Month's Average Balance | [(19) + (29)] / 2 | $15,560,273 | $23,420,644 | $37,771,724 | $45,642,469 | $43,641,691 | $39,778,717 | $36,274,686 | $34,581,166 | $33,778,280 | $33,345,333 | $32,881,000 | $32,708,304 | |
| (31) | Interest Rate (BOA Prime minus 200 bps) | | 2.25% | 2.38% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | |
| (32) | Interest Applied | [(30) x (31)] / 365 x (1) | $28,776 | $47,242 | $80,200 | $87,534 | $92,664 | $81,737 | $77,022 | $71,057 | $71,721 | $70,802 | $67,564 | $69,449 | $845,767 |
| (33) | Gas Procurement Incentive/(penalty) | | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| (34) | Variable Ending Under/(Over) Recovery | (29) + (32) + (33) | $17,445,473 | $29,443,058 | $46,180,590 | $45,191,882 | $42,184,163 | $37,455,008 | $35,171,386 | $34,062,004 | $33,566,278 | $33,195,191 | $32,634,373 | $32,851,683 | $32,851,683 |
| (35) | **GCR Deferred Summary** | | | | | | | | | | | | | | |
| (36) | Beginning Under/(Over) Recovery | (3) + (19) | $14,810,568 | $19,632,273 | $29,962,005 | $40,995,873 | $37,689,795 | $33,222,353 | $27,300,045 | $25,848,037 | $26,587,727 | $28,376,915 | $30,399,796 | $32,131,754 | $14,810,568 |
| (37) | Gas Costs | Sum[(4):(6),(16),(20):(22)] | $13,156,349 | $27,188,114 | $46,687,083 | $21,229,687 | $17,277,242 | $9,731,571 | $7,500,335 | $6,331,664 | $5,934,321 | $5,805,232 | $5,846,325 | $7,166,864 | $173,854,788 |
| (38) | Inventory Finance | (23) + (24) | $112,855 | $91,342 | $52,343 | $34,072 | $21,632 | $26,469 | $39,805 | $52,777 | $60,169 | $68,590 | $85,040 | $96,167 | $741,261 |
| (39) | Working Capital | (8) + (25) | $75,067 | $156,147 | $233,496 | $105,914 | $86,106 | $48,291 | $37,109 | $31,252 | $29,261 | $28,614 | $28,820 | $35,438 | $895,514 |
| (40) | NGPMP Credits | (7) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($908,333) | ($10,900,000) |
| (41) | Total Costs | Sum[(37):(40)] | $12,435,937 | $26,527,270 | $46,064,589 | $20,461,341 | $16,476,647 | $8,897,998 | $6,668,916 | $5,507,360 | $5,115,417 | $4,994,103 | $5,051,851 | $6,390,136 | $164,591,565 |
| (42) | Revenue | (10) + (27) | $7,646,017 | $16,247,507 | $35,105,972 | $23,842,799 | $21,019,293 | $14,882,422 | $8,177,289 | $4,821,487 | $3,384,520 | $3,033,556 | $3,384,071 | $4,186,273 | $145,731,205 |
| (43) | Monthly Under/(Over) Recovery | (41) - (42) | $4,789,920 | $10,279,763 | $10,958,617 | ($3,381,458) | ($4,542,646) | ($5,984,424) | ($1,508,373) | $685,873 | $1,730,897 | $1,960,547 | $1,667,780 | $2,203,863 | $18,860,359 |
| (44) | Prelim. Ending Under/(Over) Recovery | (36) + (43) | $19,600,488 | $29,912,036 | $40,920,621 | $37,614,415 | $33,147,149 | $27,237,928 | $25,791,672 | $26,533,909 | $28,318,624 | $30,337,462 | $32,067,576 | $34,335,618 | |
| (45) | Month's Average Balance | [(36) + (44)] / 2 | $17,205,528 | $24,772,154 | $35,441,313 | $39,305,144 | $35,418,472 | $30,230,141 | $26,545,859 | $26,190,973 | $27,453,175 | $29,357,188 | $31,233,686 | $33,233,686 | |
| (46) | Interest Rate (BOA Prime minus 200 bps) | | 2.25% | 2.38% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | 2.50% | |
| (47) | Interest Applied | (15) + (32) | $31,785 | $49,968 | $75,252 | $75,380 | $75,204 | $62,117 | $56,364 | $53,817 | $58,291 | $62,334 | $64,179 | $70,565 | $735,256 |
| (48) | Gas Purchase Plan Incentives/(Penalties) | (33) | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| **(49)** | **Ending Under/(Over) Recovery W/ Interest** | (44) + (47) + (48) | $19,632,273 | $29,962,005 | $40,995,873 | $37,689,795 | $33,222,353 | $27,300,045 | $25,848,037 | $26,587,727 | $28,376,915 | $30,399,796 | $32,131,754 | $\boxed{\$34,406,182}$ | $34,406,182 |

National Grid - RI Gas
Interim Gas Cost Recovery Filing
Bill Impact Analysis with Various Levels of Consumption:

**Residential Heating:**

| | | | | | | | Difference due to: | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 13 Month Period | 13 Month Period | | | | | | | | | |
| (1) | | Annual | Proposed | Current | 13 Month Period | | | | | | | | |
| (2) | | Consumption (Therms) | Rates | Rates | Difference | % Chg | Base Rates | GCR | DAC | | EE | LIHEAP | GET |
| (3) | | | | | | | | | Base DAC | ISR | | | |
| (4) | | | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- |
| (5) | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
| (6) | | | | | | | | | | | | | |
| (7) | | 640 | $1,071.58 | $993.44 | $78.14 | 7.9% | $0.00 | $75.80 | $0.00 | $0.00 | $0.00 | $0.00 | $2.34 |
| (8) | | 708 | $1,165.31 | $1,078.89 | $86.42 | 8.0% | $0.00 | $83.83 | $0.00 | $0.00 | $0.00 | $0.00 | $2.59 |
| (9) | | 776 | $1,258.92 | $1,164.17 | $94.74 | 8.1% | $0.00 | $91.90 | $0.00 | $0.00 | $0.00 | $0.00 | $2.84 |
| (10) | | 846 | $1,354.19 | $1,250.91 | $103.28 | 8.3% | $0.00 | $100.18 | $0.00 | $0.00 | $0.00 | $0.00 | $3.10 |
| (11) | | 917 | $1,447.17 | $1,335.21 | $111.96 | 8.4% | $0.00 | $108.60 | $0.00 | $0.00 | $0.00 | $0.00 | $3.36 |
| (12) | **Average Customer** | **984** | **$1,532.71** | **$1,412.61** | **$120.10** | **8.5%** | $0.00 | $116.50 | $0.00 | $0.00 | $0.00 | $0.00 | $3.60 |
| (13) | | 1,052 | $1,619.37 | $1,490.96 | $128.41 | 8.6% | $0.00 | $124.56 | $0.00 | $0.00 | $0.00 | $0.00 | $3.85 |
| (14) | | 1,124 | $1,711.12 | $1,573.92 | $137.20 | 8.7% | $0.00 | $133.08 | $0.00 | $0.00 | $0.00 | $0.00 | $4.12 |
| (15) | | 1,190 | $1,795.06 | $1,649.79 | $145.27 | 8.8% | $0.00 | $140.91 | $0.00 | $0.00 | $0.00 | $0.00 | $4.36 |
| (16) | | 1,258 | $1,880.79 | $1,727.21 | $153.58 | 8.9% | $0.00 | $148.97 | $0.00 | $0.00 | $0.00 | $0.00 | $4.61 |
| (17) | | 1,332 | $1,973.06 | $1,810.46 | $162.60 | 9.0% | $0.00 | $157.72 | $0.00 | $0.00 | $0.00 | $0.00 | $4.88 |

**Residential Heating Low Income:**

| | | | | | | | Difference due to: | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 13 Month Period | 13 Month Period | | | | | | | | | |
| (18) | | Annual | Proposed | Current | 13 Month Period | | | | | | | | |
| (19) | | Consumption (Therms) | Rates | Rates | Difference | % Chg | Base Rates | GCR | DAC | | EE | LIHEAP | GET |
| (20) | | | | | | | | | Base DAC | ISR | | | |
| (21) | | | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- |
| (22) | | 640 | $1,023.41 | $945.27 | $78.14 | 8.3% | $0.00 | $75.80 | $0.00 | $0.00 | $0.00 | $0.00 | $2.34 |
| (23) | | 708 | $1,113.92 | $1,027.50 | $86.42 | 8.4% | $0.00 | $83.83 | $0.00 | $0.00 | $0.00 | $0.00 | $2.59 |
| (24) | | 776 | $1,204.32 | $1,109.58 | $94.74 | 8.5% | $0.00 | $91.90 | $0.00 | $0.00 | $0.00 | $0.00 | $2.84 |
| (25) | | 846 | $1,296.39 | $1,193.11 | $103.28 | 8.7% | $0.00 | $100.18 | $0.00 | $0.00 | $0.00 | $0.00 | $3.10 |
| (26) | | 917 | $1,386.50 | $1,274.55 | $111.96 | 8.8% | $0.00 | $108.60 | $0.00 | $0.00 | $0.00 | $0.00 | $3.36 |
| (27) | **Average Customer** | **984** | **$1,469.55** | **$1,349.44** | **$120.10** | **8.9%** | $0.00 | $116.50 | $0.00 | $0.00 | $0.00 | $0.00 | $3.60 |
| (28) | | 1,052 | $1,553.69 | $1,425.28 | $128.41 | 9.0% | $0.00 | $124.56 | $0.00 | $0.00 | $0.00 | $0.00 | $3.85 |
| (29) | | 1,124 | $1,642.78 | $1,505.58 | $137.20 | 9.1% | $0.00 | $133.08 | $0.00 | $0.00 | $0.00 | $0.00 | $4.12 |
| (30) | | 1,190 | $1,724.30 | $1,579.03 | $145.27 | 9.2% | $0.00 | $140.91 | $0.00 | $0.00 | $0.00 | $0.00 | $4.36 |
| (31) | | 1,258 | $1,807.61 | $1,654.03 | $153.58 | 9.3% | $0.00 | $148.97 | $0.00 | $0.00 | $0.00 | $0.00 | $4.61 |
| (32) | | 1,332 | $1,897.34 | $1,734.74 | $162.60 | 9.4% | $0.00 | $157.72 | $0.00 | $0.00 | $0.00 | $0.00 | $4.88 |

National Grid - RI Gas
Interim Gas Cost Recovery Filing
Bill Impact Analysis with Various Levels of Consumption:

**Residential Non-Heating:**

| | | | 13 Month Period | 13 Month Period | | | Difference due to: | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (33) | | Annual | Proposed | Current | 13 Month Period | | | | | | | | |
| (34) | | Consumption (Therms) | Rates | Rates | Difference | % Chg | Base Rates | GCR | DAC | | EE | LIHEAP | GET |
| (35) | | | | | | | | | Base DAC | ISR | | | |
| (36) | | | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- |
| (37) | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
| (38) | | | | | | | | | | | | | |
| (39) | | 158 | $408.04 | $388.75 | $19.29 | 5.0% | $0.00 | $18.71 | $0.00 | $0.00 | $0.00 | $0.00 | $0.58 |
| (40) | | 175 | $432.06 | $410.65 | $21.40 | 5.2% | $0.00 | $20.76 | $0.00 | $0.00 | $0.00 | $0.00 | $0.64 |
| (41) | | 193 | $457.47 | $433.91 | $23.57 | 5.4% | $0.00 | $22.86 | $0.00 | $0.00 | $0.00 | $0.00 | $0.71 |
| (42) | | 208 | $478.62 | $453.18 | $25.43 | 5.6% | $0.00 | $24.67 | $0.00 | $0.00 | $0.00 | $0.00 | $0.76 |
| (43) | | 223 | $499.76 | $472.51 | $27.25 | 5.8% | $0.00 | $26.43 | $0.00 | $0.00 | $0.00 | $0.00 | $0.82 |
| (44) | **Average Customer** | 241 | **$525.25** | **$495.78** | **$29.47** | **5.9%** | $0.00 | $28.59 | $0.00 | $0.00 | $0.00 | $0.00 | $0.88 |
| (45) | | 257 | $547.73 | $516.31 | $31.42 | 6.1% | $0.00 | $30.48 | $0.00 | $0.00 | $0.00 | $0.00 | $0.94 |
| (46) | | 275 | $573.15 | $539.53 | $33.62 | 6.2% | $0.00 | $32.61 | $0.00 | $0.00 | $0.00 | $0.00 | $1.01 |
| (47) | | 291 | $595.76 | $560.20 | $35.56 | 6.3% | $0.00 | $34.49 | $0.00 | $0.00 | $0.00 | $0.00 | $1.07 |
| (48) | | 310 | $622.49 | $584.64 | $37.86 | 6.5% | $0.00 | $36.72 | $0.00 | $0.00 | $0.00 | $0.00 | $1.14 |
| (49) | | 325 | $643.71 | $604.03 | $39.68 | 6.6% | $0.00 | $38.49 | $0.00 | $0.00 | $0.00 | $0.00 | $1.19 |

**Residential Non-Heating Low Income:**

| | | | 13 Month Period | 13 Month Period | | | Difference due to: | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (50) | | Annual | Proposed | Current | 13 Month Period | | | | | | | | |
| (51) | | Consumption (Therms) | Rates | Rates | Difference | % Chg | Base Rates | GCR | DAC | | EE | LIHEAP | GET |
| (52) | | | | | | | | | Base DAC | ISR | | | |
| (53) | | | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- |
| (54) | | 158 | $383.47 | $364.18 | $19.29 | 5.3% | $0.00 | $18.71 | $0.00 | $0.00 | $0.00 | $0.00 | $0.58 |
| (55) | | 175 | $406.71 | $385.31 | $21.40 | 5.6% | $0.00 | $20.76 | $0.00 | $0.00 | $0.00 | $0.00 | $0.64 |
| (56) | | 193 | $431.32 | $407.75 | $23.57 | 5.8% | $0.00 | $22.86 | $0.00 | $0.00 | $0.00 | $0.00 | $0.71 |
| (57) | | 208 | $451.78 | $426.35 | $25.43 | 6.0% | $0.00 | $24.67 | $0.00 | $0.00 | $0.00 | $0.00 | $0.76 |
| (58) | | 223 | $472.25 | $445.00 | $27.25 | 6.1% | $0.00 | $26.43 | $0.00 | $0.00 | $0.00 | $0.00 | $0.82 |
| (59) | **Average Customer** | **241** | **$496.92** | **$467.45** | **$29.47** | **6.3%** | $0.00 | $28.59 | $0.00 | $0.00 | $0.00 | $0.00 | $0.88 |
| (60) | | 257 | $518.68 | $487.26 | $31.42 | 6.4% | $0.00 | $30.48 | $0.00 | $0.00 | $0.00 | $0.00 | $0.94 |
| (61) | | 275 | $543.28 | $509.66 | $33.62 | 6.6% | $0.00 | $32.61 | $0.00 | $0.00 | $0.00 | $0.00 | $1.01 |
| (62) | | 291 | $565.16 | $529.61 | $35.56 | 6.7% | $0.00 | $34.49 | $0.00 | $0.00 | $0.00 | $0.00 | $1.07 |
| (63) | | 310 | $591.04 | $553.18 | $37.86 | 6.8% | $0.00 | $36.72 | $0.00 | $0.00 | $0.00 | $0.00 | $1.14 |
| (64) | | 325 | $611.57 | $571.89 | $39.68 | 6.9% | $0.00 | $38.49 | $0.00 | $0.00 | $0.00 | $0.00 | $1.19 |

National Grid - RI Gas
Interim Gas Cost Recovery Filing
Bill Impact Analysis with Various Levels of Consumption:

**C & I Small:**

| Line | | Annual Consumption (Therms) | 13 Month Period Proposed Rates | 13 Month Period Current Rates | 13 Month Period Difference | % Chg | Difference due to: Base Rates | GCR | DAC: Base DAC | DAC: ISR | EE | LIHEAP | GET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (69) | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
| (70) | | | | | | | | | | | | | |
| (71) | | 1,035 | $1,775.40 | $1,649.04 | $126.36 | 7.7% | $0.00 | $122.57 | $0.00 | $0.00 | $0.00 | $0.00 | $3.79 |
| (72) | | 1,144 | $1,909.08 | $1,769.43 | $139.65 | 7.9% | $0.00 | $135.46 | $0.00 | $0.00 | $0.00 | $0.00 | $4.19 |
| (73) | | 1,255 | $2,044.45 | $1,891.27 | $153.18 | 8.1% | $0.00 | $148.58 | $0.00 | $0.00 | $0.00 | $0.00 | $4.60 |
| (74) | | 1,367 | $2,180.39 | $2,013.50 | $166.89 | 8.3% | $0.00 | $161.88 | $0.00 | $0.00 | $0.00 | $0.00 | $5.01 |
| (75) | | 1,479 | $2,314.21 | $2,133.67 | $180.55 | 8.5% | $0.00 | $175.13 | $0.00 | $0.00 | $0.00 | $0.00 | $5.42 |
| (76) | **Average Customer** | **1,590** | **$2,441.71** | **$2,247.67** | **$194.04** | **8.6%** | $0.00 | $188.22 | $0.00 | $0.00 | $0.00 | $0.00 | $5.82 |
| (77) | | 1,701 | $2,569.86 | $2,362.21 | $207.65 | 8.8% | $0.00 | $201.42 | $0.00 | $0.00 | $0.00 | $0.00 | $6.23 |
| (78) | | 1,813 | $2,698.78 | $2,477.45 | $221.33 | 8.9% | $0.00 | $214.69 | $0.00 | $0.00 | $0.00 | $0.00 | $6.64 |
| (79) | | 1,923 | $2,825.41 | $2,590.67 | $234.74 | 9.1% | $0.00 | $227.70 | $0.00 | $0.00 | $0.00 | $0.00 | $7.04 |
| (80) | | 2,035 | $2,954.35 | $2,705.95 | $248.40 | 9.2% | $0.00 | $240.95 | $0.00 | $0.00 | $0.00 | $0.00 | $7.45 |
| (81) | | 2,146 | $3,082.18 | $2,820.21 | $261.97 | 9.3% | $0.00 | $254.11 | $0.00 | $0.00 | $0.00 | $0.00 | $7.86 |

**C & I Medium:**

| Line | | Annual Consumption (Therms) | 13 Month Period Proposed Rates | 13 Month Period Current Rates | 13 Month Period Difference | % Chg | Difference due to: Base Rates | GCR | DAC: Base DAC | DAC: ISR | EE | LIHEAP | GET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (85) | | | | | | | | | | | | | |
| (86) | | 9,146 | $11,274.62 | $10,158.20 | $1,116.41 | 11.0% | $0.00 | $1,082.92 | $0.00 | $0.00 | $0.00 | $0.00 | $33.49 |
| (87) | | 10,131 | $12,387.00 | $11,150.38 | $1,236.62 | 11.1% | $0.00 | $1,199.52 | $0.00 | $0.00 | $0.00 | $0.00 | $37.10 |
| (88) | | 11,115 | $13,497.78 | $12,141.04 | $1,356.74 | 11.2% | $0.00 | $1,316.04 | $0.00 | $0.00 | $0.00 | $0.00 | $40.70 |
| (89) | | 12,099 | $14,609.15 | $13,132.31 | $1,476.85 | 11.2% | $0.00 | $1,432.54 | $0.00 | $0.00 | $0.00 | $0.00 | $44.31 |
| (90) | | 13,085 | $15,721.97 | $14,124.76 | $1,597.21 | 11.3% | $0.00 | $1,549.29 | $0.00 | $0.00 | $0.00 | $0.00 | $47.92 |
| (91) | **Average Customer** | **14,071** | **$16,834.88** | **$15,117.38** | **$1,717.49** | **11.4%** | $0.00 | $1,665.97 | $0.00 | $0.00 | $0.00 | $0.00 | $51.52 |
| (92) | | 15,057 | $17,948.26 | $16,110.37 | $1,837.89 | 11.4% | $0.00 | $1,782.75 | $0.00 | $0.00 | $0.00 | $0.00 | $55.14 |
| (93) | | 16,041 | $19,059.02 | $17,101.00 | $1,958.02 | 11.4% | $0.00 | $1,899.28 | $0.00 | $0.00 | $0.00 | $0.00 | $58.74 |
| (94) | | 17,025 | $20,170.39 | $18,092.27 | $2,078.12 | 11.5% | $0.00 | $2,015.78 | $0.00 | $0.00 | $0.00 | $0.00 | $62.34 |
| (95) | | 18,010 | $21,282.21 | $19,083.85 | $2,198.36 | 11.5% | $0.00 | $2,132.41 | $0.00 | $0.00 | $0.00 | $0.00 | $65.95 |
| (96) | | 18,995 | $22,394.57 | $20,076.01 | $2,318.56 | 11.5% | $0.00 | $2,249.00 | $0.00 | $0.00 | $0.00 | $0.00 | $69.56 |

National Grid - RI Gas
Interim Gas Cost Recovery Filing
Bill Impact Analysis with Various Levels of Consumption:

**C & I LLF Large:**

| | | | 13 Month Period | 13 Month Period | | | Difference due to: | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (97) | | Annual | Proposed | Current | 13 Month Period | | | | | | | | |
| (98) | | Consumption (Therms) | Rates | Rates | Difference | % Chg | Base Rates | GCR | DAC | | EE | LIHEAP | GET |
| (99) | | | | | | | | | Base DAC | ISR | | | |
| (100) | | | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- |
| (101) | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
| (102) | | | | | | | | | | | | | |
| (103) | | 47,837 | $55,496.04 | $49,656.94 | $5,839.09 | 11.8% | $0.00 | $5,663.92 | $0.00 | $0.00 | $0.00 | $0.00 | $175.17 |
| (104) | | 52,988 | $61,218.09 | $54,750.28 | $6,467.80 | 11.8% | $0.00 | $6,273.77 | $0.00 | $0.00 | $0.00 | $0.00 | $194.03 |
| (105) | | 58,139 | $66,940.13 | $59,843.53 | $7,096.60 | 11.9% | $0.00 | $6,883.70 | $0.00 | $0.00 | $0.00 | $0.00 | $212.90 |
| (106) | | 63,293 | $72,665.22 | $64,939.55 | $7,725.67 | 11.9% | $0.00 | $7,493.90 | $0.00 | $0.00 | $0.00 | $0.00 | $231.77 |
| (107) | | 68,445 | $78,388.17 | $70,033.65 | $8,354.53 | 11.9% | $0.00 | $8,103.89 | $0.00 | $0.00 | $0.00 | $0.00 | $250.64 |
| (108) | **Average Customer** | **73,596** | **$84,110.28** | **$75,127.00** | **$8,983.28** | **12.0%** | $0.00 | $8,713.78 | $0.00 | $0.00 | $0.00 | $0.00 | $269.50 |
| (109) | | 78,746 | $89,831.27 | $80,219.35 | $9,611.92 | 12.0% | $0.00 | $9,323.56 | $0.00 | $0.00 | $0.00 | $0.00 | $288.36 |
| (110) | | 83,898 | $95,554.29 | $85,313.53 | $10,240.76 | 12.0% | $0.00 | $9,933.54 | $0.00 | $0.00 | $0.00 | $0.00 | $307.22 |
| (111) | | 89,051 | $101,278.98 | $90,409.25 | $10,869.73 | 12.0% | $0.00 | $10,543.64 | $0.00 | $0.00 | $0.00 | $0.00 | $326.09 |
| (112) | | 94,204 | $107,003.07 | $95,504.29 | $11,498.77 | 12.0% | $0.00 | $11,153.81 | $0.00 | $0.00 | $0.00 | $0.00 | $344.96 |
| (113) | | 99,355 | $112,725.04 | $100,597.58 | $12,127.45 | 12.1% | $0.00 | $11,763.63 | $0.00 | $0.00 | $0.00 | $0.00 | $363.82 |

**C & I HLF Large:**

| | | | 13 Month Period | 13 Month Period | | | Difference due to: | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (114) | | Annual | Proposed | Current | 13 Month Period | | | | | | | | |
| (115) | | Consumption (Therms) | Rates | Rates | Difference | % Chg | Base Rates | GCR | DAC | | EE | LIHEAP | GET |
| (116) | | | | | | | | | Base DAC | ISR | | | |
| (117) | | | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- | ------------- |
| (118) | | 56,059 | $57,091.08 | $50,242.62 | $6,848.46 | 13.6% | $0.00 | $6,643.01 | $0.00 | $0.00 | $0.00 | $0.00 | $205.45 |
| (119) | | 62,097 | $62,986.53 | $55,400.44 | $7,586.09 | 13.7% | $0.00 | $7,358.51 | $0.00 | $0.00 | $0.00 | $0.00 | $227.58 |
| (120) | | 68,138 | $68,884.58 | $60,560.47 | $8,324.11 | 13.7% | $0.00 | $8,074.39 | $0.00 | $0.00 | $0.00 | $0.00 | $249.72 |
| (121) | | 74,172 | $74,776.39 | $65,715.17 | $9,061.22 | 13.8% | $0.00 | $8,789.38 | $0.00 | $0.00 | $0.00 | $0.00 | $271.84 |
| (122) | | 80,210 | $80,671.81 | $70,872.94 | $9,798.87 | 13.8% | $0.00 | $9,504.90 | $0.00 | $0.00 | $0.00 | $0.00 | $293.97 |
| (123) | **Average Customer** | **86,248** | **$86,566.67** | **$76,030.20** | **$10,536.47** | **13.9%** | $0.00 | $10,220.38 | $0.00 | $0.00 | $0.00 | $0.00 | $316.09 |
| (124) | | 92,287 | $92,462.63 | $81,188.41 | $11,274.23 | 13.9% | $0.00 | $10,936.00 | $0.00 | $0.00 | $0.00 | $0.00 | $338.23 |
| (125) | | 98,322 | $98,355.36 | $86,343.83 | $12,011.53 | 13.9% | $0.00 | $11,651.18 | $0.00 | $0.00 | $0.00 | $0.00 | $360.35 |
| (126) | | 104,361 | $104,251.68 | $91,502.39 | $12,749.29 | 13.9% | $0.00 | $12,366.81 | $0.00 | $0.00 | $0.00 | $0.00 | $382.48 |
| (127) | | 110,397 | $110,145.26 | $96,658.62 | $13,486.64 | 14.0% | $0.00 | $13,082.04 | $0.00 | $0.00 | $0.00 | $0.00 | $404.60 |
| (128) | | 116,436 | $116,041.57 | $101,817.16 | $14,224.40 | 14.0% | $0.00 | $13,797.67 | $0.00 | $0.00 | $0.00 | $0.00 | $426.73 |

National Grid - RI Gas
Interim Gas Cost Recovery Filing
Bill Impact Analysis with Various Levels of Consumption:

**C & I LLF Extra-Large:**

| Line | | Annual Consumption (Therms) | 13 Month Period Proposed Rates | 13 Month Period Current Rates | 13 Month Period Difference | % Chg | Difference due to: Base Rates | GCR | DAC: Base DAC | DAC: ISR | EE | LIHEAP | GET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (133) | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
| (134) | | | | | | | | | | | | | |
| (135) | | 197,286 | $180,486.60 | $156,405.47 | $24,081.12 | 15.4% | $0.00 | $23,358.69 | $0.00 | $0.00 | $0.00 | $0.00 | $722.43 |
| (136) | | 218,535 | $199,311.08 | $172,636.26 | $26,674.82 | 15.5% | $0.00 | $25,874.58 | $0.00 | $0.00 | $0.00 | $0.00 | $800.24 |
| (137) | | 239,780 | $218,132.42 | $188,864.43 | $29,267.99 | 15.5% | $0.00 | $28,389.95 | $0.00 | $0.00 | $0.00 | $0.00 | $878.04 |
| (138) | | 261,025 | $236,954.33 | $205,093.14 | $31,861.20 | 15.5% | $0.00 | $30,905.36 | $0.00 | $0.00 | $0.00 | $0.00 | $955.84 |
| (139) | | 282,273 | $255,778.09 | $221,323.29 | $34,454.79 | 15.6% | $0.00 | $33,421.15 | $0.00 | $0.00 | $0.00 | $0.00 | $1,033.64 |
| (140) | **Average Customer** | **303,519** | **$274,600.07** | **$237,552.02** | **$37,048.04** | **15.6%** | $0.00 | $35,936.60 | $0.00 | $0.00 | $0.00 | $0.00 | $1,111.44 |
| (141) | | 324,763 | $293,420.73 | $253,779.53 | $39,641.20 | 15.6% | $0.00 | $38,451.96 | $0.00 | $0.00 | $0.00 | $0.00 | $1,189.24 |
| (142) | | 346,011 | $312,245.07 | $270,010.32 | $42,234.75 | 15.6% | $0.00 | $40,967.71 | $0.00 | $0.00 | $0.00 | $0.00 | $1,267.04 |
| (143) | | 367,257 | $331,067.20 | $286,239.14 | $44,828.06 | 15.7% | $0.00 | $43,483.22 | $0.00 | $0.00 | $0.00 | $0.00 | $1,344.84 |
| (144) | | 388,503 | $349,889.34 | $302,467.90 | $47,421.44 | 15.7% | $0.00 | $45,998.80 | $0.00 | $0.00 | $0.00 | $0.00 | $1,422.64 |
| (145) | | 409,750 | $368,712.21 | $318,697.34 | $50,014.87 | 15.7% | $0.00 | $48,514.42 | $0.00 | $0.00 | $0.00 | $0.00 | $1,500.45 |

Header rows (129)–(132).

**C & I HLF Extra-Large:**

| Line | | Annual Consumption (Therms) | 13 Month Period Proposed Rates | 13 Month Period Current Rates | 13 Month Period Difference | % Chg | Difference due to: Base Rates | GCR | DAC: Base DAC | DAC: ISR | EE | LIHEAP | GET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (150) | | 488,264 | $404,362.80 | $344,714.04 | $59,648.76 | 17.3% | $0.00 | $57,859.30 | $0.00 | $0.00 | $0.00 | $0.00 | $1,789.46 |
| (151) | | 540,846 | $447,294.44 | $381,222.03 | $66,072.41 | 17.3% | $0.00 | $64,090.24 | $0.00 | $0.00 | $0.00 | $0.00 | $1,982.17 |
| (152) | | 593,428 | $490,226.96 | $417,730.89 | $72,496.07 | 17.4% | $0.00 | $70,321.19 | $0.00 | $0.00 | $0.00 | $0.00 | $2,174.88 |
| (153) | | 646,010 | $533,158.62 | $454,238.80 | $78,919.81 | 17.4% | $0.00 | $76,552.22 | $0.00 | $0.00 | $0.00 | $0.00 | $2,367.59 |
| (154) | | 698,591 | $576,089.53 | $490,746.19 | $85,343.34 | 17.4% | $0.00 | $82,783.04 | $0.00 | $0.00 | $0.00 | $0.00 | $2,560.30 |
| (155) | **Average Customer** | **751,175** | **$619,022.94** | **$527,255.75** | **$91,767.20** | **17.4%** | $0.00 | $89,014.18 | $0.00 | $0.00 | $0.00 | $0.00 | $2,753.02 |
| (156) | | 803,756 | $661,954.44 | $563,763.61 | $98,190.82 | 17.4% | $0.00 | $95,245.10 | $0.00 | $0.00 | $0.00 | $0.00 | $2,945.72 |
| (157) | | 856,340 | $704,887.60 | $600,272.88 | $104,614.72 | 17.4% | $0.00 | $101,476.28 | $0.00 | $0.00 | $0.00 | $0.00 | $3,138.44 |
| (158) | | 908,921 | $747,819.34 | $636,781.08 | $111,038.27 | 17.4% | $0.00 | $107,707.12 | $0.00 | $0.00 | $0.00 | $0.00 | $3,331.15 |
| (159) | | 961,502 | $790,750.27 | $673,288.48 | $117,461.79 | 17.4% | $0.00 | $113,937.94 | $0.00 | $0.00 | $0.00 | $0.00 | $3,523.85 |
| (160) | | 1,014,086 | $833,684.33 | $709,798.56 | $123,885.77 | 17.5% | $0.00 | $120,169.20 | $0.00 | $0.00 | $0.00 | $0.00 | $3,716.57 |

Header rows (146)–(149).