

August 1, 2014

VIA HAND DELIVERY & ELECTRONIC MAIL

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

RE: Docket 4514 - 2014 Distribution Adjustment Charge ("DAC")

Dear Ms. Massaro:

In accordance with the provisions of the Distribution Adjustment Clause of the Company's gas Tariff, RIPUC NG No. 101, Section 3, Schedule A, enclosed please find ten (10) copies of National Grid's¹ annual DAC filing and proposed Distribution Adjustment Charge ("DAC"). The DAC was established in Docket No. 3401 to provide for the recovery and reconciliation of the costs of identifiable special programs. Thus, the DAC is comprised of several factors relative to the specific underlying programs².

The 2014 DAC includes rate-specific Infrastructure, Safety and Reliability ("ISR") reconciliation factors based on the reconciliation of the Fiscal Year ("FY") 2014 revenue requirement contained in the Company's FY 2014 Gas ISR Reconciliation filing filed under separate cover today in Docket No. 4380 and revenue billed through the ISR Plan factors during the same period. Additionally, the proposed 2014 DAC includes a Revenue Decoupling Adjustment ("RDA") factor to reconcile actual revenue-per-customer by rate class with the target revenue-per-customer as set forth in the Company's annual RDA factor filing also filed under separate cover today pursuant to the Revenue Decoupling Mechanism, which the Rhode Island Public Utilities Commission ("PUC") approved in Docket No. 4206.

This filing consists of the pre-filed direct testimonies of Yi-An Chen and William R. Richer and their associated schedules in support of the proposed DAC factors. In her testimony, Ms. Chen also provides the reconciliation of the various components of the DAC and proposes

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

² The DAC includes a System Pressure factor, an Advanced Gas Technology factor, a Low Income Assistance Program factor, an Environmental Response Cost factor, a Pension Adjustment factor, an On-System Margin Credit factor, a Service Quality Performance factor, a Revenue Decoupling Adjustment factor, rate-class specific Infrastructure, Safety and Reliability factors, two Reconciliation factors, and an Earnings Sharing Mechanism factor.

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updated factors to be effective November 1, 2014. Ms. Chen also provides the reconciliation of the various components of the DAC, and proposes updated factors to be effective November 1, 2014.

Mr. Richer's testimony provides the status of the Company's earnings subject to the Earnings Sharing Mechanism for the periods ending March 31, 2013 and March 31, 2014, the calculation of the Pension and Postretirement Benefits Other Than Pensions ("PBOP") costs to be reconciled in the Pension Adjustment factor, and the updated FY 2014 gas ISR Plan revenue requirement to be used in the reconciliation to the actual revenues billed through the ISR factor during FY 2014.

Since the underlying data for certain components of the DAC become available only after August 1, the Company will supplement this filing on September 1, 2014. That supplemental filing will provide proposed DAC rates for effect November 1, 2014 which incorporate factors for all updated DAC components and will include a bill-impact analysis.

Thank you for your attention to this filing. If you have any questions, please do not hesitate to contact me at (401) 784-7288.

Very truly yours,

A handwritten signature in dark ink, appearing to read "Jennifer Brooks Hutchinson", with a long horizontal flourish extending to the right.

Jennifer Brooks Hutchinson

Enclosure

cc: Leo Wold, Esq.
Steve Scialabba, Division
Bruce Oliver, Division

The Narragansett Electric Company
d/b/a National Grid

Distribution Adjustment Charge Filing

Testimony and Schedules of
Yi-An Chen
and
William R. Richer

August 1, 2014

Submitted to:
Rhode Island Public Utilities Commission
R.I.P.U.C. Docket No. 4514

Submitted by:

nationalgrid

DIRECT TESTIMONY

OF

YI-AN CHEN

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1 **I. Introduction and Qualifications**

2 **Q. Please state your name and business address.**

3 A. My name is Yi-An Chen and my business address is 40 Sylvan Road, Waltham,
4 Massachusetts 02451.

6 **Q. What is your position and responsibilities?**

7 A. I am a Senior Analyst in the New England Pricing group of the Regulation and Pricing
8 department of National Grid USA Service Company, Inc. (“Service Company”). The
9 Service Company provides engineering, financial, administrative, and other technical
10 support to subsidiary companies of National Grid USA. My responsibilities include the
11 design, implementation, and administration of rates and tariffs for the gas division of The
12 Narragansett Electric Company d/b/a National Grid (“Narragansett” or the “Company”).

14 **Q. Please provide your educational background.**

15 A. I received a Bachelor of Business Administration in International Business from
16 Soochow University in Taiwan and a Masters of Business Administration from Clark
17 University.

19 **Q. Please provide your professional background.**

20 A. I joined National Grid in 2008 as an analyst in Regulatory and Pricing and was promoted
21 to my current position as senior analyst in 2011.

1 **Q. Have you previously testified before the Rhode Island Public Utilities Commission**
2 **(the “PUC”)?**

3 A. Yes, I testified in the fiscal year 2015 Gas Infrastructure, Safety and Reliability Plan
4 proceeding, Docket No. 4474, earlier this year.
5

6 **II. Purpose of Testimony**

7 **Q. What is the purpose of your testimony?**

8 A. The purpose of this testimony is to describe the changes to and reconciliation of the
9 various components of the Distribution Adjustment Charge (“DAC”) and to propose new
10 factors to become effective November 1, 2014. This filing is submitted pursuant to the
11 Company’s DAC Provision, R.I.P.U.C. NG-Gas No. 101, under Section 3, Schedule A
12 (“DAC Provision”).
13

14 **Q. Are you sponsoring any schedules with your testimony?**

15 A. Yes. I am sponsoring the following schedules that accompany my testimony:

- 16 • Schedule YC-1 Summary of DAC Factors
- 17 • Schedule YC-2 System Pressure Factor
- 18 • Schedule YC-3 Advanced Gas Technology Program Factor
- 19 • Schedule YC-4 Environmental Response Cost Factor
- 20 • Schedule YC-5 Pensions and Postretirement Benefits Factor
- 21 • Schedule YC-6 On-System Margin Credits Factor

- Schedule YC-7 Reconciliation Factors
- Schedule YC-8 Revenue Decoupling Adjustment Factor
- Schedule YC-9 ISR Reconciliation Factors

III. DAC Summary

Q. Please provide an overview of the DAC and its components.

A. The DAC was established in Docket No. 3401 to provide for the recovery and reconciliation of the costs of identifiable special programs. As described in the Company's DAC Provision, the DAC includes several components: an annual System Pressure ("SP") factor; an Advanced Gas Technology ("AGT") factor; a Low Income Assistance Program ("LIAP") factor; an Environmental Response Cost ("ERC") factor; a Pension Adjustment factor ("PAF"); an On-System Margin Credit ("MC") factor; a Service Quality Performance ("SQP") factor; a Revenue Decoupling Adjustment ("RDA") factor; rate class specific Infrastructure, Safety, and Reliability ("ISR") factors; two Reconciliation ("R") factors for the previous year DAC factors; and an Earnings Sharing Mechanism ("ESM") factor.

Q. Please briefly describe any changes impacting the DAC calculation since last year's filing.

A. As indicated in last year's DAC filing, the reconciliation for the residual amounts associated with the Capital Tracker ("CXT") and Accelerated Replacement Program

1 (“ARP”) ended in February 2013, and are no longer required. Therefore, the Company
2 has eliminated both of these items from the reconciliation factor as shown in Schedule
3 YC-7.

4
5 **Q. Please provide the proposed DAC factors.**

6 A. As in prior years, the proposed DAC factors are not final as of August 1 as certain
7 underlying data for the development of all of the component factors is not yet available.
8 Based upon the data that is available, the preliminary rates (including ISR rates that
9 became effective April, 1, 2014) are shown in Schedule YC-1.

10
11 As discussed later in my testimony, the Company will supplement this filing with
12 updated information in its September 1, 2014 Supplemental DAC filing. This
13 supplemental filing will provide proposed DAC factors incorporating all proposed factors
14 for the various DAC components and include a bill impact analysis to reflect the final
15 proposed DAC factors. Consistent with the provisions of the Company’s DAC Provision,
16 the proposed DAC factors are to become effective with consumption on and after
17 November 1, 2014.

18
19 **IV. DAC Component Details**

20 **System Pressure**

21 **Q. Please describe the System Pressure component.**

1 A. Maintaining proper operating pressure on the Company's distribution system requires the
2 occasional use of the Company's liquefied natural gas ("LNG") facilities. The System
3 Pressure cost included in the DAC represents projected LNG demand costs for the period
4 November 1, 2014 through October 31, 2015 utilized to ensure proper operating pressure
5 along the Company's distribution system. Pursuant to the settlement agreement in the
6 Company's 2012-2013 DAC filing in Docket No. 4339 ("DAC Settlement"), the System
7 Pressure balancing percentage to determine the cost to be reflected in the DAC is 75.77%
8 of the projected LNG lease payments for the period referenced above.

9
10 **Q. Will the Company provide a System Pressure factor in this filing?**

11 A. No. As noted in Docket No. 4196, the Company and the Division agreed that because
12 forecasted LNG costs are directly related to gas costs, the Company will not file System
13 Pressure data in its August 1 DAC filing, but rather will file its System Pressure cost and
14 proposed factor as part of its September 1 Supplemental DAC filing coincident with the
15 Company's Gas Cost Recovery filing. As such, Schedule YC-2 in this filing is a
16 placeholder for the September 1 proposed System Pressure factor.

17
18 **AGT Program**

19 **Q. Please describe the current AGT program.**

20 A. The AGT Program was established in Docket No. 2025 to promote the development of
21 energy-efficient natural gas technologies that increase utilization of natural gas during

1 periods of low demand. Increased off-peak usage reduces the unit cost of gas for all
2 customers by generating distribution revenue to support fixed costs associated with
3 resources needed during peak periods. The AGT program provides rebates for
4 technologies such as natural gas powered fleet vehicles, chilling systems, electrical
5 generators, process heating, desiccant dehumidifiers, as well as for residential high
6 efficiency space heating equipment.

7
8 **Q. Please provide an update with respect to the AGT rebate activity over the past fiscal**
9 **year and any known potential future rebates.**

10 A. The Company has issued one rebate in the amount of \$187,172 for a major Natural Gas
11 Vehicle project including 40 refuse trucks in April 2013. In addition, last year the PUC
12 approved a \$1.8 million AGT rebate associated with a large cogeneration system to be
13 paid out in three installments of \$500,000 and a final installment of \$300,000 over the
14 next four years. There is also one potential project which would involve rebates for
15 approximately \$300,000. The AGT program is experiencing renewed interest as a result
16 of customers' awareness and desire for energy planning, and cleaner and more economic
17 energy options for their businesses. The Company believes this program will remain an
18 important catalyst for economic development and clean energy in the state, justifying the
19 continuation of the current level of funding.

20
21 **Q. What level of funds is available for new projects in 2014-2015?**

1 A. As shown in Schedule YC-3, Page 2, at the end of March 2014, the AGT Program had a
2 balance of \$2,563,843. The \$1.8 million rebate noted above for the cogeneration project
3 will be paid out over the next four years as the project becomes operational and meets
4 other milestones. In addition, consistent with the DAC Settlement, the balance does not
5 include interest of \$29,930 calculated for the twelve month period April 2013 through
6 March 2014, as interest on the balance is to be credited to customers through the DAC's
7 reconciliation factor. See Schedule YC-3, page 2 for the calculation of interest and
8 Schedule YC-7, page 1, line 8 for the credit to be provided to customers.

9
10 **Q. Is the Company proposing any changes to the AGT program?**

11 A. Not at this time. The Company continues to recover \$300,000 annually in base rates, and
12 this annual funding will increase the balance over the same period that the anticipated
13 rebates are paid to qualifying projects. Based upon this current level of funding and
14 today's new project projections, the Company does not believe additional funding is
15 required at this time. Therefore, the Company is not proposing any change in the AGT
16 factor effective November 1, 2014, and the AGT factor will remain at zero as shown on
17 Schedule YC-3, page 1. The Company would, however, like to note that should there be
18 additional interest in the program over the next year, the Company will reassess the need
19 in its August 1, 2015 DAC filing and propose any changes in funding based on then-
20 current projects that are pending at that time.

1 **Q. As directed in the PUC's Order in Docket No. 4431, has the Company assessed the**
2 **advisability of incorporating the funding and activity of the AGT Program into the**
3 **Company's Energy Efficiency program?**

4 A. Yes, as discussed in the Company's letter that it filed with the PUC on July 30, 2014, the
5 Company is recommending continuing to fund and operate the AGT Program separately
6 from the Company's Energy Efficiency program based on the fact that the two programs
7 have different objectives. The Company's letter sets forth several reasons for this
8 recommendation. To summarize, the Energy Efficiency program is a statutorily created
9 program that promotes the procurement of energy efficiency and energy conservation
10 measures that are prudent and reliable, and lower cost than the acquisition of additional
11 supply.¹ In contrast, the AGT Program was based on adding natural gas load, rather than
12 reducing load through conservation efforts. The objective of the AGT Program is load
13 optimization, which can result, at times, in increased usage and does not align with the
14 energy reduction objectives of the Company's Energy Efficiency program.

15
16 **Q. Based on the Company's assessment of the AGT Program, does the Company still**
17 **see value in maintaining the AGT Program?**

18 A. Yes. As explained in the Company's July 30, 2014 letter, the AGT Program promotes
19 technologies and benefits that the Energy Efficiency program does not promote.
20 Therefore, the Company is recommending continuing to fund the AGT Program through

¹See Least Cost Procurement, R.I.G.L. § 39-1-27.7.

1 base rates, plus any PUC-approved incremental amount provided through the DAC, as
2 appropriate and as discussed above.
3

4 **Low Income Assistance Programs**

5 **Q. Please describe the Low Income Assistance Programs.**

6 A. The low-income assistance programs included with this DAC component are the Low
7 Income Assistance Program (“LIAP”) and the Low Income Weatherization Program.
8 The Low Income Heating Energy Assistance Program (“LIHEAP”) is a federally-funded,
9 state-administered program providing fuel assistance to low-income customers to help
10 them pay their heating bills. The Company’s LIAP piggybacks on the state-administered
11 program and provides additional credits on customers’ gas bills. The Low Income
12 Weatherization Program provides supplemental funding to the weatherization program
13 administered by the Rhode Island Office of Energy Resources. The annual funding in
14 base rates for the LIAP and the weatherization program is \$1,585,000 and \$200,000,
15 respectively.² The Company is not proposing any change to the existing program or level
16 of funding at this time. Accordingly, the LIAP component of the DAC has been set at
17 zero.
18

² The LIAP is different than and in addition to the LIHEAP enhancement credits provided to low income customers. The LIHEAP enhancement credits are provided pursuant to § 39-1-27.12 which provides for a state-administered fund that establishes additional credits on customers’ bills for those customers in receipt of a LIHEAP grant. The program is funded annually in the amount of \$6.5 million to \$7.5 million through a separate surcharge on all electric and gas customers’ bills.

1 **Environmental Response Costs**

2 **Q. Please explain the purpose of the Environmental Response Cost factor.**

3 A. The ERC factor is designed to allow the Company recovery of its reasonable and
4 prudently incurred costs for evaluation, remediation, and clean-up of the sites associated
5 with the Company's ownership and/or operation of manufactured gas plants ("MGP"),
6 manufactured gas storage facilities, and MGP-related off-site waste disposal locations. In
7 addition, the ERC factor includes recovery of environmental costs for removing and
8 replacing mercury regulators and addressing meter disposal issues.

9
10 **Q. Please describe the proposed ERC factor.**

11 A. Consistent with the Company's DAC Tariff, Item 3.5, the ERC factor is a per-therm
12 charge that reflects recovery of the 10-year amortization of annual environmental
13 response costs. As shown on Schedule YC-4, page 1, the proposed ERC factor reflects
14 annual amortization of \$1,878,913 for the period April 2014 through March 2015. A
15 yearly breakdown of this amortization is provided on pages 2 and 3 of Schedule YC-4.
16 Environmental project-specific expenses for the 12 months ending March 31, 2014 are
17 provided on page 4 of Schedule YC-4. More in-depth descriptions of the various
18 environmental projects and the fiscal year 2013-14 activities can be found in the annual
19 environmental report filed with the PUC on August 1, 2014 under separate cover. The
20 Company currently recovers \$1,310,000 of environmental costs in base rates. Netting the
21 annual base rate allowance of \$1,310,000 against the amortization expenses of

1 \$1,878,913 leaves environmental costs of \$568,913 to be recovered from customers over
2 the November 2014 through October 2015 period. This amount is divided by forecasted
3 throughput of 38,110,517dths for the 12-months beginning November 1, 2014. This
4 result was then divided by 10 to derive a \$/therm factor and translates to a \$0.0014 per
5 therm ERC actor.

6
7 **Pension and PBOP Costs**

8 **Q. What does the pension and postretirement benefits other than pension reconciliation**
9 **entail?**

10 A. In accordance with the Company's DAC Provision, Item 3.6, the pension adjustment
11 factor is designed to recover or refund the prior year's reconciliation of the Company's
12 actual Pension and PBOP expenses to the Company's Pension and PBOP allowances that
13 were included in base rates plus carrying charges.³ The adjustment factor is based on
14 this difference.

15
16 **Q. Please describe the calculation of the pension adjustment.**

17 A. A preliminary calculation reconciling the Company's actual Pension and PBOP expenses
18 and the base rate allowances for the 12-month period ending March 31, 2014 is set forth
19 in Company Witness William R. Richer's testimony and schedules included in this filing,

³ Effective February 1, 2013 and as a result of the Company's 2012 general rate case in Docket No. 4323, the allowance for the pension cost recovery was increased to \$7,679,852 while the PBOP allowance decreased to \$4,322,804. The Company has reflected the change in the allowances in its reconciliation.

1 in which he supports the derivation of these amounts. Based on these amounts, the
2 pension adjustment factor is a credit of \$0.0052 per therm and is calculated by dividing
3 the net over-collection of actual Pension and PBOP expenses by the forecasted
4 throughput of 38,110,517dths for the 12-months beginning November 1, 2014. This
5 result is then divided by 10 to derive a \$/therm factor as shown in Schedule YC-5, page
6 1.

7
8 **On-System Margin Credit**

9 **Q. Please explain the changes to the On-System Margin Credit factor.**

10 A. Pursuant to the settlement in the Company's 2012 general rate case in Docket No. 4323,
11 the Company calculates the total actual non-firm customer margin, exclusive of Rhode
12 Island Gross Earnings Tax ("GET") for the 12-month period ending each March 31. If
13 the total margin exceeds the \$1,800,000 threshold, then any excess amount above the
14 threshold is to be credited to customers. If total actual margin is less than the threshold,
15 the deficiency is to be recovered from customers. In addition, if a non-firm customer
16 who was active during the test year in Docket No. 4323 (i.e., calendar year 2011)
17 requests and is able to transfer to firm service, the Company will reduce the margin
18 threshold by the non-firm customer's actual 2011 calendar year usage multiplied by the
19 applicable non-firm rates approved in Docket No. 4323.

1 **Q. Did the Company adjust the margin threshold to reflect non-firm customers**
2 **transferring to firm service?**

3 A. Yes. The Company determined that six customers who were non-firm customers during
4 calendar year 2011 have since transferred to firm service. As shown on Schedule YC-6,
5 page 3, the Company has identified these customers and their calendar year 2011 usage
6 and multiplied this usage by the applicable non-firm rate approved in Docket No. 4323,
7 resulting in a total annual margin associated with these customers during the rate case's
8 test year of \$195,567. The Company then reduced the annual threshold of \$1,800,000
9 approved in Docket No. 4323 by this amount, resulting in a revised non-firm margin
10 threshold of \$1,604,433 for the period April 2013 through March 2014.
11

12 **Q. Please provide the details on the On-System Margin Credit factor included in this**
13 **filing.**

14 A. Schedule YC-6 summarizes the non-firm customer usage, revenue, and margins,
15 excluding GET and Energy Efficiency surcharges, for the 12-month period ending
16 March 31, 2014. The total non-firm margin is compared against the adjusted threshold
17 noted above and results in a shortage in non-firm margin of \$135,571. This amount is to
18 be recovered from customers through an On-System Margin Credit factor that is
19 proposed at a surcharge of \$0.0003 per therm derived by dividing the shortage in margin
20 of \$135,571 by the forecasted throughput of 38,110,517dths and dividing this result by 10
21 to derive a \$/therm factor for the 12-month period beginning November 1, 2014.

1 **Service Quality Program**

2 **Q. Please provide a brief description of the Service Quality Program and its current**
3 **impact on the DAC.**

4 A. In the Service Quality Plan proceeding, Docket No. 3476, it was agreed that any penalty
5 amounts resulting from the approved Service Quality Plan would be credited to
6 customers through the DAC. The Company's FY 2014 Annual Service Quality Report
7 filed on July 31, 2014 indicates that the Company did not incur a penalty for its
8 performance during fiscal year 2014. Therefore, there is no impact on the DAC, and
9 consequently the SQP factor is \$0.0000 per therm.

10
11 **Revenue Decoupling Adjustment**

12 **Q. Please explain the RDA component.**

13 A. Pursuant to its DAC Provision, the Company operates under a Revenue Decoupling
14 Mechanism ("RDM").⁴ The RDM provides for an annual reconciliation of actual base
15 revenue-per-customer by rate class to a benchmark revenue-per-customer. The Company
16 filed this reconciliation with the PUC also on August 1, 2014, and it covers the fourteen
17 month period of February 2013 through March 2014. Accordingly, as shown on
18 Schedule YC-8, the RDA identifies an over-recovery of \$8,989,002 and a credit RDA
19 factor of \$0.0325 per therm derived by dividing the over-recovery by the throughput
20 associated with the Residential, Small, and Medium Commercial and Industrial ("C&I")

⁴ The Revenue Decoupling Mechanism was implemented pursuant to R.I.G.L. § 39-1-27.7.1.

1 rate classes or 27,589,595dths, and dividing this result by 10 to derive a \$/therm factor
2 for the 12-months beginning November 1, 2014.
3

4 **Earnings Sharing Mechanism**

5 **Q. Is the Company reflecting any amounts in the proposed DAC factors associated with**
6 **the earnings sharing mechanism?**

7 No it is not. Mr. Richer discusses the Company's earnings report in his testimony. As
8 stated in his testimony, the calculation will be updated in the September 1 Supplemental
9 DAC filing.
10

11 **ISR Plan**

12 **Q. Please explain the ISR Plan reconciliation included in this filing.**

13 A. The reconciliation associated with the ISR Plan factors is designed to reconcile the actual
14 FY 2014 revenue requirement on actual cumulative capital investment covered by the
15 ISR Plan. Mr. Richer presents the actual FY 2014 revenue requirement on actual
16 cumulative capital investment in his testimony along with an explanation of its
17 calculation. In addition, this ISR Plan reconciliation includes a reconciliation of the FY
18 2013 reconciliation balance to ensure the net amount to be recovered from customers as a
19 result of the prior ISR Plan reconciliation was reflected on customers' bills and to capture
20 any over or under billing of that amount. The ISR Plan reconciliation in Schedule YC-9
21 results in an under-recovery of \$1,633,930. To derive the ISR reconciliation factor per

1 rate class, the Company allocated the actual FY 2014 revenue requirement on actual
2 cumulative capital investment to rate classes based on the rate base allocation from the
3 Company's general rate case in Docket No. 4323 and compared this to billed ISR factor
4 revenue by rate class to arrive at the over or under recovery of ISR Plan investment by
5 rate class in accordance with the Company's DAC Provision. The Company then divided
6 the total under-recovery for each rate class by the forecasted throughput for each rate
7 class. Schedule YC-9 shows the ISR reconciliation factors per rate class.

8
9 **V. DAC Reconciliation**

10 **Q. Please describe the reconciliation component of the DAC.**

11 A. The reconciliation component of the DAC allows for the reconciliation of the actual
12 amounts approved to be reflected in the DAC factors and revenue billed through the
13 DAC, along with a true-up for those items requiring a forecast of their balances at
14 October 31 in order to calculate the DAC factors for November 1. In this filing, the
15 individual items that are being reconciled fall into one of three general groupings which
16 are rate class specific – (i) those associated with the reconciliation of factors that are
17 related to all rate classes, (ii) those associated with the reconciliation of factors that are
18 specific to the Residential, Small, and Medium C&I rate classes, and (iii) those that are
19 associated with the reconciliation of factors related solely to the Large and Extra Large
20 rate classes.

21

1 A summary of the various items being reconciled is shown on Schedule YC-7, page 1,
2 Sections 1, 2, and 3.
3

4 **Q. Please describe the reconciliation component applicable to all rate classes.**

5 A. The items applicable to all rate classes include those that are being reconciled on the
6 basis of the gas year, from November 2013 through October 2014. They include the: (1)
7 System Pressure reconciliation,⁵ (2) Environmental reconciliation, (3) On-System Margin
8 Credits reconciliation, (4) Pension reconciliation, (5) PBOP reconciliation, and (6) prior
9 reconciliation factors. Each component reconciles the amounts approved for recovery or
10 refund and actual revenues through June 2014 and forecasted revenue through October
11 2014.⁶ In addition, a true-up amount representing the difference between the forecasted
12 balance and the actual balance at October 31, 2013 is reflected in the reconciliation
13 factor, as well as the interest on the AGT fund balance as described earlier in my
14 testimony.
15

16 The Company derives the reconciliation factor applicable to all rate classes by adding the
17 ending balances of these components at the end of the 12-month period ending October
18 2014, or \$1,039,138, adding in the true up amounts of \$427,826 and the AGT interest of
19 (\$29,930), and dividing that total by the forecasted throughput for the November 1, 2014

⁵ The System Pressure reconciliation has been calculated according to the DAC Settlement. The detailed schedule summarizing the derivation of the cost will be part of the GCR filing on September 1, 2014.

⁶ Factors reconciled based on the gas year can also include the ESM factor and AGT factor, when applicable.

1 through October 31, 2015 period, or 38,110,517dths. This result is then divided by 10 to
2 derive a \$0.0037 per therm factor for the 12-month period beginning November 1, 2014.
3 A summary of the various items being reconciled which are applicable to all rate classes
4 is shown on Schedule YC-7, page 1, Section 1 while the details are set forth in pages 2-4
5 and 9. It is worth noting that the reconciliation factor applicable to all rate classes will be
6 added to the factor applicable to the Large and Extra Large rate class customers'
7 reconciliation to derive two distinct reconciliation factors among the two groups of
8 customers.

9
10 **Q. Please describe the reconciliation component applicable only to the Residential,**
11 **Small, and Medium Rate classes.**

12 A. The reconciliation of the RDA balance through the RDA factors that are only applicable
13 to the Residential, Small, and Medium C&I customers results in a separate reconciliation
14 factor for this group of customers. This factor was derived by taking the RDM
15 reconciliation ending balance at October 31, 2014, which represents an over-recovery of
16 the amount to be recovered through the RDA factor and RDA reconciliation factor of
17 \$762,601 as shown in Schedule YC-7, page 6, Column (I) at 31, and dividing that total by
18 the forecasted throughput for the Residential, Small, and Medium C&I customers of
19 27,589,595dths. This factor was then divided by 10 to derive a credit factor of \$0.0027
20 per therm. The summary of this derivation is shown on Schedule YC-7, page 1, Section
21 2.

1 **Q. Please describe the reconciliation component applicable to the Large and Extra-**
2 **Large Rate classes.**

3 A. The Large and Extra-Large reconciliation factor includes: (1) the prior reconciliation
4 factor applicable to the Large and Extra-Large rate classes, and (2) the reconciliation of
5 the base rate allowances that are subject to reconciliation in the DAC: AGT,
6 Environmental, and the LIAP for the April 2013 through March 2014 period. For
7 Residential, Small, and Medium C&I customers, the reconciliation of these base rate
8 allowances to billed revenue is done as part of the RDM reconciliation where actual
9 revenue is reconciled to targets that include these base rate allowances. Therefore, the
10 recoveries for the base rate components for AGT, Environmental, and LIAP only need to
11 be separately reconciled for the Large and Extra-Large rate classes, which are excluded
12 from the Company's RDM.

13
14 The base rate reconciliation factors for these programs are calculated by dividing the total
15 annual base rate allowances approved by the PUC for each program by the total annual
16 forecasted firm throughput from the Company's 2012 general rate case in Docket No.
17 4323. The Company then multiplies these base rate reconciliation factors by the
18 forecasted throughput for Large and Extra-Large rate classes from the Company's 2012
19 general rate case in Docket No. 4323 to obtain the forecasted monthly revenues. The
20 forecasted monthly revenues are then compared to the actual revenues to derive the
21 annual over/under recoveries for the 12 months ending March 31, 2014 for each program.

1 The reconciliation of these four components for the Large and Extra-Large rate classes
2 resulted in a reconciliation credit factor of \$0.0013 per therm that applies to customers
3 receiving delivery service on the Large and Extra-Large rate classes only. This factor
4 was calculated by taking the ending balances of the base rate allowances at the end of
5 March 2014, which is a credit balance of \$126,002, and adding to it the balance of the
6 Reconciliation factor associated with the previous reconciliation for these rate classes,
7 which is an over recovery of \$12,561, and dividing the total amount by the forecasted
8 throughput of 10,520,922dths associated with the Large and Extra-Large customers. This
9 factor was then divided by 10 to derive a credit factor of \$0.0013 per therm. Finally, this
10 credit factor was added to the Reconciliation factor applicable to all rate classes as
11 described earlier in my testimony to derive a net Reconciliation factor applicable to the
12 Large and Extra-Large rate classes of \$0.0024 per therm for the 12-month period
13 beginning November 1, 2014. A summary of these items is shown on Attachment YC-7,
14 page 1, Section 3, while the details are set forth in page 3 line 46 and page 5.

15
16 The Company will be updating the ending balances with one more month of actual
17 revenue for each of these reconciliation items in its September 1 Supplemental DAC
18 filing.

19
20 **Q. Please describe the basis of the forecast utilized in the preliminary DAC.**

1 A. The preliminary DAC factors are based on the current projected throughput of
2 38,110,517dths for the November 1, 2014 to October 31, 2015 period. This forecast will
3 also be used in the Company's Gas Cost Recovery filing.
4

5 **Q. Does this conclude your testimony?**

6 A. Yes.
7

Schedules of Yi-An Chen

Schedule YC-1	Summary of DAC Factors
Schedule YC-2	System Pressure Factor
Schedule YC-3	Advanced Gas Technology Program Factor
Schedule YC-4	Environmental Response Cost Factor
Schedule YC-5	Pensions and Postretirement Benefits Factor
Schedule YC-6	On-System Margin Credits Factor
Schedule YC-7	Reconciliation Factors
Schedule YC-8	Revenue Decoupling Adjustment Factor
Schedule YC-9	ISR Reconciliation Factors

Schedule YC-1
Summary of DAC Factors

**National Grid - RI Gas
Summary of DAC Factors
Effective November 1, 2014**

Section 1: DAC factor (not including annual ISR component) November 1, 2014 - October 31, 2015

Line No.	Description	Reference	Amount	Factor	
				Residential/ Small/ Medium C&I	Large/ X-Large
1	System Pressure (SP)	<u>YC-2</u>	\$0 (TBD)	\$0.0000	\$0.0000
2	Advanced Gas Technology Program (AGT)	<u>YC-3</u>	\$0	\$0.0000	\$0.0000
3	Low Income Assistance Program (LIAP)		\$0	\$0.0000	\$0.0000
4	Environmental Response Cost Factor (ERCF)	<u>YC-4</u>	\$568,913	\$0.0014	\$0.0014
5	Pension Adjustment Factor (PAF)	<u>YC-5</u>	(\$2,034,108)	(\$0.0052)	(\$0.0052)
6	On-System Margin Credits (MC)	<u>YC-6</u>	\$135,571	\$0.0003	\$0.0003
7	Reconciliation Factor (R)	<u>YC-7</u>	\$1,298,472	\$0.0037	\$0.0024
8	Service Quality Factor (SQP)		\$0	\$0.0000	\$0.0000
9	Earnings Sharing Mechanism (ESM)		\$0	\$0.0000	\$0.0000
10	Subtotal	Sum ([1]-[9])	(\$31,152)	\$0.0002	(\$0.0011)
11	Uncollectible Percentage	Dkt 4323	3.18%	3.18%	3.18%
12	DAC factors grossed up for uncollectible	[10]/(1-[11])	(\$32,175)	\$0.0002	(\$0.0011) per therm
13	Revenue Decoupling Adjustment (RDA)	<u>YC-8</u>	(\$8,989,002)	(\$0.0325)	\$0.0000
14	Revenue Decoupling Adjustment Reconciliation	<u>YC-7</u>	(\$762,601)	(\$0.0027)	\$0.0000
15	DAC factor	[12]+[13]+[14]	(\$9,783,777)	(\$0.0350)	(\$0.0011) per therm

Section 2: DAC factors including annual ISR component

Line No.		ISR Reconciliation w/o uncollectible ¹ (therms)	Uncollectible Percentage ²	ISR Reconciliation* (therms) (A)	Base DAC Component* ³ (therms) (B)	DAC Component Subtotal Rates* (therms) (C) = (A) + (B)	ISR Component* ⁴ (therms) (D)	November 1, 2014 DAC Rates* (therms) (E) = (C)+(D)
16	Res-NH	\$0.0088	3.18%	\$0.0090	(\$0.0350)	(\$0.0260)	\$0.0222	(\$0.0038)
17	Res-NH-LI	\$0.0088	3.18%	\$0.0090	(\$0.0350)	(\$0.0260)	\$0.0222	(\$0.0038)
18	Res-H	\$0.0030	3.18%	\$0.0030	(\$0.0350)	(\$0.0320)	\$0.0148	(\$0.0172)
19	Res-H-LI	\$0.0030	3.18%	\$0.0030	(\$0.0350)	(\$0.0320)	\$0.0148	(\$0.0172)
20	Small	\$0.0029	3.18%	\$0.0029	(\$0.0350)	(\$0.0321)	\$0.0153	(\$0.0168)
21	Medium	\$0.0024	3.18%	\$0.0025	(\$0.0350)	(\$0.0325)	\$0.0115	(\$0.0210)
22	Large LL	\$0.0020	3.18%	\$0.0020	(\$0.0011)	\$0.0009	\$0.0092	\$0.0101
23	Large HL	\$0.0017	3.18%	\$0.0017	(\$0.0011)	\$0.0006	\$0.0091	\$0.0097
24	XL-LL	\$0.0002	3.18%	\$0.0002	(\$0.0011)	(\$0.0009)	\$0.0028	\$0.0019
25	XL-HL	\$0.0006	3.18%	\$0.0006	(\$0.0011)	(\$0.0005)	\$0.0035	\$0.0030

***Factors Include Uncollectible Allowance**

¹ YC-9

² Per Docket No. 4323

³ Section 1, Line 15

⁴ FY 15 ISR component per Docket 4474

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
R.I.P.U.C. DOCKET NO. 4514
DISTRIBUTION ADJUSTMENT CHARGE FILING
WITNESS: YI-AN CHEN

Schedule YC-2
System Pressure Factor

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**Schedule YC-3
Advanced Gas Technology Program Factor**

**National Grid - RI Gas
AGT Factor
Effective November 1, 2014**

Line No.

1	AGT collected through DAC	\$0
2	Firm Throughput	38,110,517 dth
3	AGT Factor	\$0.0000 per dth
4	AGT Factor	\$0.0000 per therm

2 Company Forecast

3 Line (1) / Line (2)

4 Line (3) / 10

National Grid – RI Gas
AGT Account Balance and Interest Calculation

Line No.		<u>Apr-13</u> 30	<u>May-13</u> 31	<u>Jun-13</u> 30	<u>Jul-13</u> 31	<u>Aug-13</u> 31	<u>Sep-13</u> 30	<u>Oct-13</u> 31	<u>Nov-13</u> 30	<u>Dec-13</u> 31	<u>Jan-14</u> 31	<u>Feb-14</u> 28	<u>Mar-14</u> 31	<u>Total</u> (m)
1	Beginning Balance	\$2,461,303	\$2,306,305	\$2,325,825	\$2,338,485	\$2,348,828	\$2,357,767	\$2,367,655	\$2,379,354	\$2,389,311	\$2,423,404	\$2,470,299	\$2,518,779	
2	Rebate Disbursements	\$187,172	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
3	Other Disbursements	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
4	Sub-total Disbursements	\$187,172	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
5	Forecasted Throughput from Docket 4323 (dth)	3,826,443	2,321,424	1,505,558	1,230,159	1,063,069	1,175,941	1,391,267	2,407,560	4,054,661	5,577,080	5,765,550	5,359,362	\$0,0084
		992,288	720,015	553,276	530,577	477,149	548,615	587,911	770,135	1,063,665	1,163,568	1,264,681	1,195,353	35,678,072
		2,834,155	1,601,409	952,282	699,582	585,919	627,326	803,356	1,637,426	2,990,996	4,413,512	4,500,868	4,164,009	9,867,232
6	Base Rates Revenue													25,810,840
7	Forecasted L/XL Collections	\$8,344	\$6,054	\$4,652	\$4,461	\$4,012	\$4,613	\$4,943	\$6,476	\$8,944	\$9,784	\$10,634	\$10,051	\$82,969
8	Forecasted Res H, NH, Small & Medium C&I Classes	\$23,831	\$13,465	\$8,007	\$5,882	\$4,927	\$5,275	\$6,755	\$13,768	\$25,150	\$37,111	\$37,846	\$35,013	\$217,031
9	Sub-total Revenue	\$32,175	\$19,520	\$12,660	\$10,344	\$8,939	\$9,888	\$11,699	\$20,244	\$34,094	\$46,895	\$48,480	\$45,064	\$300,000
10	Adjustment													
11	Ending Balance	\$2,306,305	\$2,325,825	\$2,338,485	\$2,348,828	\$2,357,767	\$2,367,655	\$2,379,354	\$2,389,311	\$2,423,404	\$2,470,299	\$2,518,779	\$2,563,844	(\$10,287)

12	Interest Calculation													
13	Month's Average Balance	\$2,383,804	\$2,316,065	\$2,332,155	\$2,343,657	\$2,353,298	\$2,362,711	\$2,373,504	\$2,384,332	\$2,406,358	\$2,446,852	\$2,494,539	\$2,541,311	
14	Bk America Rate less 200 Basis Points	1.250%	1.250%	1.250%	1.250%	1.250%	1.250%	1.250%	1.250%	1.250%	1.250%	1.250%	1.250%	
	Calculated Interest (not applied to balance)	\$2,449	\$2,459	\$2,396	\$2,488	\$2,498	\$2,427	\$2,520	\$2,450	\$2,555	\$2,598	\$2,592	\$2,698	\$29,930

1 Column (a) Ending Balance per Docket No. 4431, MCS-3, Page 2 of 2

4 Lines (2) + Line (3)

5 Rate year forecast as presented in Docket No. 4323

8 Actual revenue for these rate classes are reconciled through the Revenue Decoupling Mechanism (RDM)

9 Lines (7) + (8)

10 This was transferred to Recon Factor to reflect the true-up noted in Docket No. 4431, MCS-75, Page 9 of 10, Column (h), Line 6.

11 Lines (1) - (4) + (9) + (10)

12 Lines ((1)+(11))/2

13 Per RIPUC NG-Gas No. 101, Section 3, Schedule A

14 Column (m), Total interest refunded to customers at YC-7, Page 1, line 8 per Docket No. 4339 Settlement of Issues

Schedule YC-4
Environmental Response Cost Factor

**National Grid - RI Gas
Environmental Response Cost (ERC) Factor
Effective November 1, 2014**

<u>Line No.</u>	<u>Description</u>	<u>Column / Line</u>	<u>Amount</u>
1	Amortization of Pre-FY2003 expenses	Col M, Ln 3	\$0
2	Amortization of FY2003 expenses	Col M, Ln 6	\$0
3	Amortization of FY2004 expenses - year 10 of 10	Col M, Ln 9	\$0
4	Amortization of FY2005 expenses - year 9 of 10	Col M, Ln 12	\$13,668
5	Amortization of FY2006 expenses - year 8 of 10	Col M, Ln 15	\$43,602
6	Amortization of FY2007 expenses - year 7 of 10	Col M, Ln 18	(\$75,829)
7	Amortization of FY2008 expenses - year 6 of 10	Col M, Ln 21	(\$4,575)
8	Amortization of FY2009 expenses - year 5 of 10	Col M, Ln 24	\$96,575
9	Amortization of FY2010 expenses - year 4 of 10	Col M, Ln 27	\$208,826
10	Amortization of FY2011 expenses - year 3 of 10	Col M, Ln 30	\$452,295
11	Amortization of FY2012 expenses - year 3 of 10	Col M, Ln 33	\$558,394
12	Amortization of FY2013 expenses - year 2 of 10	Col M, Ln 36	\$136,852
13	Amortization of FY2014 expenses - year 1 of 10	Col M, Ln 39	\$449,105
14		Subtotal	\$1,878,913
15	Base Rate Embedded ERC Funding		\$1,310,000
16	Cost in excess of Allowance		\$568,913
17	Firm Throughput		38,110,517 dths
18	Environmental Response Cost Factor per decatherm		\$0.0140 per dth
19	Environmental Response Cost Factor per therm		\$0.0014 per therm
14	Lines (1) to (13)		
15	Docket No. 3401		
16	Line (14) - Line (15)		
17	Company Forecast		
18	Line (16) / Line (17)		
19	Line (18) / 10		

National Grid - RI Gas
Environmental Response Cost (ERC) Factor
ERC Amortization Schedule

Line No.		EY2002 (a)	EY2003 (b)	EY2004 (c)	EY2005 (d)	EY2006 (e)	EY2007 (f)	EY2008 (g)	EY2009 (h)	EY2010 (i)	EY2011 (j)	EY2012 (k)	EY2013 (l)	EY2014 (m)
ENVIRONMENTAL AMORTIZATION														
1	June 30, 2002													
2	NET ERC costs net of insurance	\$12,510,252												
3	Amortization Period (years)	10												
4	FY 2003		\$1,251,025	\$1,251,025	\$1,251,025	\$1,251,025	\$1,251,025	\$1,251,025	\$1,251,025	\$1,251,025	\$1,251,025	\$1,251,027	\$0	
5	NET ERC costs net of insurance													
6	Amortization Period (years)	10												
7	FY 2004			(\$601,267)	(\$601,267)	(\$601,267)	(\$601,267)	(\$601,267)	(\$601,267)	(\$601,267)	(\$601,267)	(\$601,267)	(\$601,270)	\$0
8	NET ERC costs net of insurance													
9	Amortization Period (years)	10												
10	FY 2005				(\$47,296)	(\$47,296)	(\$47,296)	(\$47,296)	(\$47,296)	(\$47,296)	(\$47,296)	(\$47,296)	(\$47,296)	
11	NET ERC costs net of insurance													
12	Amortization Period (years)	10												
13	FY 2006					\$13,671	\$13,671	\$13,671	\$13,671	\$13,671	\$13,671	\$13,671	\$13,671	
14	NET ERC costs net of insurance													
15	Amortization Period (years)	10												
16	FY 2007													
17	NET ERC costs net of insurance													
18	Amortization Period (years)	10												
19	FY 2008 & adjustment for FY 2007													
20	NET ERC costs net of insurance													
21	Amortization Period (years)	10												
22	FY 2009													
23	NET ERC costs net of insurance													
24	Amortization Period (years)	10												
25	FY 2010													
26	NET ERC costs net of insurance													
27	Amortization Period (years)	10												
28	FY 2011													
29	NET ERC costs net of insurance													
30	Amortization Period (years)	10												
31	FY 2012													
32	NET ERC costs net of insurance													
33	Amortization Period (years)	10												
34	FY 2013													
35	NET ERC costs net of insurance													
36	Amortization Period (years)	10												
37	FY 2014													
38	NET ERC costs net of insurance													
39	Amortization Period (years)	10												
40	Amortization Expense sub-total													
		\$0	\$1,251,025	\$649,758	\$602,462	\$616,133	\$659,735	\$583,506	\$579,331	\$675,906	\$884,732	\$1,337,029	\$644,393	\$1,382,515
38	ENVIRONMENTAL REMEDIATION COSTS													
43	Beginning Balance													
40	Environmental Expenditures, net of insurance													
		\$12,510,252	\$12,510,252	\$6,497,579	\$6,024,619	\$6,161,326	\$6,597,346	\$5,839,055	\$5,793,300	\$6,759,054	\$8,847,318	\$13,370,265	\$18,954,201	\$20,322,722
			(\$6,012,673)	(\$472,960)	\$136,707	\$436,020	(\$758,291)	(\$457,755)	\$965,754	\$2,088,264	\$4,522,947	\$5,583,936	\$1,368,521	\$4,491,047
41	Ending Balance													
		\$12,510,252	\$6,497,579	\$6,024,619	\$6,161,326	\$6,597,346	\$5,839,055	\$5,793,300	\$6,759,054	\$8,847,318	\$13,370,265	\$18,954,201	\$20,322,722	\$24,813,769
42	ACCUMULATED ENVIRONMENTAL REMEDIATION													
43	Beginning Balance													
44	Amortization Expense (1)													
		\$0	\$0	\$1,251,025	\$1,900,793	\$2,503,245	\$3,119,378	\$3,779,113	\$4,363,019	\$4,942,350	\$5,618,256	\$6,502,988	\$7,840,017	\$8,484,410
				\$0	\$649,758	\$602,462	\$616,133	\$659,735	\$583,506	\$579,331	\$675,906	\$884,732	\$1,337,029	\$644,393
45	Ending Balance													
		\$0	\$1,251,025	\$1,900,793	\$2,503,245	\$3,119,378	\$3,779,113	\$4,363,019	\$4,942,350	\$5,618,256	\$6,502,988	\$7,840,017	\$8,484,410	\$9,866,925
46	NET ENVIRONMENTAL REMEDIATION COSTS													
		\$12,510,252	\$5,246,554	\$4,123,836	\$3,658,081	\$3,477,968	\$2,059,942	\$1,430,281	\$1,816,704	\$3,229,062	\$6,867,277	\$11,114,184	\$11,838,312	\$14,946,844

(1) Amortization Expense is shown on a June 30 basis

Line No.		EY2015 (u)	EY2016 (v)	EY2017 (w)	EY2018 (x)	EY2019 (y)	EY2020 (z)	EY2021 (aa)	EY2022 (ab)	EY2023 (ac)	EY2024 (ad)
ENVIRONMENTAL AMORTIZATION											
1	June 30, 2002										
2	NET ERC costs net of insurance										
3	Amortization Period (years)	10									
4	FY 2003										
5	NET ERC costs net of insurance										
6	Amortization Period (years)	10									
7	FY 2004										
8	NET ERC costs net of insurance										
9	Amortization Period (years)	10									
10	FY 2005										
11	NET ERC costs net of insurance										
12	Amortization Period (years)	10									
13	FY 2006										
14	NET ERC costs net of insurance										
15	Amortization Period (years)	10									
16	FY 2007										
17	NET ERC costs net of insurance										
18	Amortization Period (years)	10									
19	FY 2008 & adjustment for FY2007										
20	NET ERC costs net of insurance										
21	Amortization Period (years)	10									
22	FY 2009										
23	NET ERC costs net of insurance										
24	Amortization Period (years)	10									
25	FY 2010										
26	NET ERC costs net of insurance										
27	Amortization Period (years)	10									
28	FY 2011										
29	NET ERC costs net of insurance										
30	Amortization Period (years)	10									
31	FY 2012										
32	NET ERC costs net of insurance										
33	Amortization Period (years)	10									
34	FY 2013										
35	NET ERC costs net of insurance										
36	Amortization Period (years)	10									
37	FY 2014										
38	NET ERC costs net of insurance										
39	Amortization Period (years)	10									
40	Amortization Expense sub-total										
38	ENVIRONMENTAL REMEDIATION COSTS										
39	Beginning Balance										
40	Environmental Expenditures, net of insurance										
41	Ending Balance										
42	ACCUMULATED ENVIRONMENTAL REMEDIA										
43	Beginning Balance										
44	Amortization Expense (1)										
45	Ending Balance										
46	NET ENVIRONMENTAL REMEDIATION COSTS										

(1) Amortization Expense is shown on a June 30 basis

**National Grid - RI Gas
Environmental Response Cost (ERC) Factor
ERC FY 2014 Detail**

<u>Line No.</u>		Total Costs ending 3/31/2013	FY 2014 Costs ending 03/31/2014	Total Costs ending 3/31/2014
		(a)	(b)	(c) = (a) + (b)
1	Environmental Expenses			
2	907 & 908 Allens Avenue	\$19,366,948	\$716,489	\$20,083,438
3	307 PCB Reg Pipe Abandon.	\$748,003	\$217,676	\$965,679
4	379 Petroleum Site	\$6,430,012	\$2,860,826	\$9,290,838
5	700 18 & 21 Holders COR	\$2,776,743	\$0	\$2,776,743
6	161 Canal Street, Westerly	\$29,133	\$0	\$29,133
7	178 Site Inv Connell Hwy Newp	\$44,092	\$0	\$44,092
8	144 Westerly Soil Investigation	\$82,184	\$0	\$82,184
9	171 Contaminated Regulators	\$2,949,447	\$80,472	\$3,029,919
10	781 Mendon Road	\$121,355	\$0	\$121,355
11	782 Tidewater	\$1,267,751	\$76,505	\$1,344,256
12	783 Hamlet	\$111,105	\$1,967	\$113,072
13	-- Thames & Wellington	\$5,056,689	\$255,258	\$5,311,947
14	-- Misc MGP (NEG)	\$231,971	\$63,769	\$295,740
15	-- Insurance Recovery	\$1,040,903	\$150,980	\$1,191,882
16	-- East Providence (First Ave) Holder	\$131,533	\$67,105	\$198,639
17	Sub-Total	\$40,387,869	\$4,491,047	\$44,878,917
18	Insurance Recovery/Settlement			
19	910 Environmental Insurance Settlement		\$0	
20	Net FY2014 Environmental Response Costs		<u>\$4,491,047</u>	

17 Lines (2) through (16)

20 Line (17) + Line (19)

**Schedule YC-5
Pensions and Postretirement Benefits Factor**

**National Grid - RI Gas
Pension Adjustment Factors
Effective November 1, 2014**

<u>Line No.</u>	<u>Pension Factor</u>	
1	Pension Reconciliation	(\$159,913)
2	Carrying Charges	(\$349,956)
3	Total Pension Cost	(\$509,869)
4	Firm Throughput	38,110,517 dth
5	Pension Factor per dth	(\$0.0130) per dth
6	Pension Factor per therm	(\$0.0013) per therm
 <u>PBOP Factor</u>		
7	PBOP Reconciliation	(\$948,303)
8	Carrying Charges	(\$575,936)
9	Total PBOP Cost	(\$1,524,239)
10	Firm Throughput	38,110,517 dth
11	PBOP Factor per dth	(\$0.0390) per dth
12	PBOP Factor per therm	(\$0.0039) per therm
 <u>Pension & PBOP Factor Combined</u>		
13	Pension & PBOP Factor per dth	(\$0.0520) per dth
14	Pension & PBOP Factor per therm	(\$0.0052) per therm

- 1 WRR-1, Page 1, Line 9
- 2 WRR-1, Page 1, Line 11
- 3 Line (1) + Line (2)
- 4,10 Company Forecast
- 5 Line (3) / Line (4)
- 6 Line (5) / 10
- 7 WRR-1, Page 2, Line 9
- 8 WRR-1, Page 2, Line 11
- 9 Line (7) + Line (8)
- 11 Line (9) / Line (10)
- 12 Line (11) / 10
- 13 Line (5) + Line (11)
- 14 Line (6) + Line (12)

Schedule YC-6
On-System Margin Credits Factor

**National Grid - RI Gas
On-System Margin Factor
Effective November 1, 2014**

Line No.

1	Threshold	\$1,604,433
2	Total Non-firm margin	\$1,468,862
3	Margin below the Threshold	\$135,571
4	Firm Throughput	38,110,517 dth
5	On-System Margin Credit per dth	\$0.0030 per dth
6	On-System Margin Credit per therm	\$0.0003 per therm

- 1 Page 3, Col (g), Ln 11
- 2 Page 2, Col (m), Ln 5
- 3 Line (1) - Line (2)
- 4 Company forecast
- 5 Line (3) / Line (4)
- 6 Line (5) / 10

**National Grid - RI Gas
On-System Margin Calculation**

<u>Line No.</u>		<u>Apr-13</u> (a)	<u>May-13</u> (b)	<u>Jun-13</u> (c)	<u>Jul-13</u> (d)	<u>Aug-13</u> (e)	<u>Sep-13</u> (f)	<u>Oct-13</u> (g)	<u>Nov-13</u> (h)	<u>Dec-13</u> (i)	<u>Jan-14</u> (j)	<u>Feb-14</u> (k)	<u>Mar-14</u> (l)	<u>Total Apr 13-Mar 14</u> (m)
1	Non-firm Usage (dth)	176,409	125,545	128,811	149,568	139,654	153,570	171,977	202,801	152,179	72,021	94,007	159,054	1,725,595
2	Non-firm Revenue	\$371,317	\$200,325	\$211,710	\$235,060	\$225,045	\$254,243	\$293,230	\$427,086	\$396,780	\$305,475	\$210,411	\$456,591	\$3,587,271
3	Non-firm Revenue subject to Margin Sharing	\$293,404	\$147,174	\$153,628	\$167,568	\$162,957	\$184,088	\$214,958	\$333,992	\$323,936	\$262,581	\$157,369	\$366,710	\$2,768,367
4	Non-firm Gas Costs	\$142,979	\$41,869	\$46,741	\$42,367	\$47,565	\$57,396	\$72,154	\$162,407	\$190,360	\$194,564	\$72,986	\$228,116	\$1,299,505
5	Non-firm Margin	\$150,425	\$105,305	\$106,887	\$125,202	\$115,392	\$126,692	\$142,804	\$171,585	\$133,577	\$68,018	\$84,383	\$138,594	\$1,468,862

- 1 Page 7, column (f), total/10
- 2 Page 7, column (p), total
- 3 Page 7, column (q), total
- 4 Page 7, column (s), total
- 5 Page 7, column (t), total

National Grid - RI Gas
On-System Margin Threshold Adjustment

Customers moving from Non-firm to Firm service per Settlement Agreement of Docket No. 4323

Line No.	(a) Assigned #	(b) Test year usage (therm)	(c) Distribution rate approved in Dkt 4323 (per therm)	(d) Calculated annual margin (b) * (c)
	<u>(i) July 2012 - January 2013</u>			
1	3	249,841	\$0.0912	\$22,786
2	21	800,376	\$0.0733	\$58,668
3	38	742,357	\$0.0912	\$67,703
4	Sub-total			\$149,156
	<u>(ii) February 2013 - March 2013</u>			
5	45	39,646	\$0.1436	\$5,693
6	Sub-total			\$5,693
	<u>(iii) April 2013 - March 2014</u>			
7	25	500,891	\$0.0733	\$36,715
8	33	18,144	\$0.2206	\$4,003
9	Sub-total			\$40,718
10	Total			\$195,567

Calculation of Adjustment to On-System Margin Theshold Approved in Docket No. 4323

	(e) Annual Non-firm Threshold per Dkt 4323	(f) Adjustment to Non-firm Threshold (d), line 10	(g) Adjusted Annual Non-firm Threshold (e) - (f)
11	\$1,800,000	\$195,567	\$1,604,433

Assigned #	Month Charges Apply To	Banner Bill Date/mo/yr	Sales or Trans	Customer Charge	Usage (therms)	Commodity		Distribution charge	Distribution rate	Sales tax	GEI	Energy		Other charges	Total revenue	Revenue subject to Margin Sliding		Total Gas Cost	Total Margin	Comment
						Commodity charge (per therm)	y rate					Efficiency Surcharge	Paperless credit			(q)	(r)			
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)	(t)	(u)
5	Apr-13	Apr-13	Trans	\$485	45,203	N/A		\$3,313	\$0.0733		\$176	\$1,885	\$1	\$1	\$5,860	\$3,798	\$4,692	\$0	\$3,798	
6	Apr-13	Apr-13	Trans	\$485	14,467	N/A		\$1,060	\$0.0733			\$603		\$1	\$2,150	\$1,545	\$4,692	\$0	\$1,545	
8	Apr-13	Apr-13	Trans	\$715	616,331	N/A		\$45,177	\$0.0733		\$2,214	\$25,701		\$71	\$73,878	\$45,892	\$4,692	\$0	\$45,892	
11	Apr-13	Apr-13	Trans	\$275	33,100	N/A		\$2,426	\$0.0733	\$295		\$1,380		\$28	\$4,530	\$2,701	\$4,692	\$0	\$2,701	
14	Apr-13	Apr-13	Sales	\$625	263,714	\$121,551	\$0.4609	\$24,051	\$0.0912		\$4,863	\$10,907		\$1	\$162,087	\$146,227	\$4,692	\$121,551	\$24,676	
15	Apr-13	Apr-13	Trans	\$715	115,145	N/A		\$8,440	\$0.0733		\$432	\$4,802		\$1	\$14,389	\$9,155	\$4,692	\$0	\$9,155	
16	Apr-13	Apr-13	Trans	\$715	304,702	N/A		\$27,789	\$0.0912			\$12,706		\$1	\$41,211	\$28,504	\$4,692	\$0	\$28,504	
17	Apr-13	Apr-13	Trans	\$485	29,299	N/A		\$2,148	\$0.0733			\$1,222		\$1	\$3,855	\$2,633	\$4,692	\$0	\$2,633	
19	Apr-13	Apr-13	Trans	\$715	36,127	N/A		\$2,648	\$0.0733			\$1,507		\$27	\$6,487	\$3,363	\$4,692	\$0	\$3,363	
20	Apr-13	Apr-13	Trans	\$715	70,657	N/A		\$5,179	\$0.0733		\$14	\$2,946		(\$0)	\$8,964	\$5,894	\$4,692	\$0	\$5,894	
24	Apr-13	Apr-13	Trans	\$715	0	N/A		\$0			\$22			\$114	\$851	\$715	\$4,692	\$0	\$715	
25	Apr-13	Apr-13	Trans	\$485	53,530	N/A		\$3,924	\$0.0733		\$205	\$2,232		\$1	\$6,447	\$4,409	\$4,692	\$0	\$4,409	
28	Apr-13	Apr-13	Sales	\$625	42,318	\$19,505	\$0.4609	\$3,102	\$0.0733			\$1,765		\$1	\$24,997	\$23,232	\$4,692	\$19,505	\$3,727	
29	Apr-13	Apr-13	Sales	\$625	4,173	\$1,923	\$0.4609	\$306	\$0.0733	\$29	\$94	\$174		\$1	\$3,123	\$2,854	\$4,692	\$1,923	\$931	
33	Apr-13	Apr-13	Sales	\$405	0	\$0		\$0			\$13			\$1	\$448	\$405	\$4,692	\$0	\$405	
34	Apr-13	Apr-13	Trans	\$715	72,661	N/A		\$5,326	\$0.0733		\$281	\$3,030		\$1	\$9,352	\$6,041	\$4,692	\$0	\$6,041	
54	Apr-13	Apr-13	Sales	\$13	0	\$0		\$0						\$0	\$13	\$13	\$4,692	\$0	\$13	
55	Apr-13	Apr-13	Trans	\$715	1,982	N/A		\$145	\$0.0733		\$1	\$83		(\$2,244)	(\$1,299)	\$860	\$4,692	\$0	\$860	
67	Apr-13	Apr-13	Trans	\$715	60,677	N/A		\$4,448	\$0.0733		\$186	\$2,002		\$1	\$5,163	\$5,163	\$4,692	\$0	\$5,163	
5	May-13	May-13	Trans	\$485	47,998	N/A		\$3,518	\$0.0733			\$1,814		\$1	\$6,191	\$4,003	\$4,937	\$0	\$4,003	
6	May-13	May-13	Trans	\$485	16,872	N/A		\$1,237	\$0.0733			\$704		\$1	\$2,426	\$1,722	\$4,937	\$0	\$1,722	
8	May-13	May-13	Trans	\$715	630,438	N/A		\$46,211	\$0.0733		\$2,264	\$26,289		\$72	\$75,552	\$46,926	\$4,937	\$0	\$46,926	
11	May-13	May-13	Trans	\$275	31,541	N/A		\$2,312	\$0.0733	\$282	\$121	\$1,315		(\$3,821)	\$484	\$2,587	\$4,937	\$0	\$2,587	
14	May-13	May-13	Sales	\$625	479	\$238	\$0.4974	\$44	\$0.0912		\$29	\$20		\$1	\$956	\$907	\$4,937	\$238	\$669	
15	May-13	May-13	Trans	\$715	72,558	N/A		\$5,318	\$0.0733		\$280	\$3,026		\$1	\$9,340	\$6,033	\$4,937	\$0	\$6,033	
16	May-13	May-13	Trans	\$715	170,786	N/A		\$15,576	\$0.0912			\$1,122		\$516	\$23,928	\$16,291	\$4,937	\$0	\$16,291	
17	May-13	May-13	Trans	\$485	43,503	N/A		\$3,189	\$0.0733			\$1,814		\$1	\$5,489	\$3,674	\$4,937	\$0	\$3,674	
19	May-13	May-13	Trans	\$715	35,503	N/A		\$2,602	\$0.0733			\$1,480		\$1	\$4,799	\$3,317	\$4,937	\$0	\$3,317	
20	Mar-13	May-13	Trans	(\$715)	(92,141)	N/A		(\$6,754)	\$0.0733		(\$17)	(\$3,842)		\$0	(\$11,329)	(\$7,469)	\$5,4590	\$0	(\$7,469) adj for Mar'13	
20	Mar-13	May-13	Trans	\$715	78,935	N/A		\$5,786	\$0.0733		\$15	\$3,292		(\$0)	\$9,699	\$6,501	\$5,4590	\$0	\$6,501 adj for Mar'13	
20	Apr-13	May-13	Trans	(\$715)	(70,657)	N/A		(\$5,179)	\$0.0733		(\$14)	(\$2,946)		\$0	(\$8,855)	(\$5,894)	\$4,692	\$0	(\$5,894) adj for Apr'13	
20	Apr-13	May-13	Trans	\$715	60,530	N/A		\$4,437	\$0.0733		\$12	\$2,524		(\$0)	\$7,688	\$5,152	\$4,692	\$0	\$5,152 adj for Apr'13	
20	May-13	May-13	Trans	\$715	47,474	N/A		\$3,480	\$0.0733		\$22	\$1,980		(\$0)	\$6,185	\$4,195	\$4,937	\$0	\$4,195	
24	May-13	May-13	Trans	\$715	0	N/A		\$0			\$22	\$0		\$94	\$831	\$715	\$4,937	\$0	\$715	
25	May-13	May-13	Trans	\$485	41,910	N/A		\$3,072	\$0.0733		\$164	\$1,748		\$1	\$5,470	\$3,557	\$4,937	\$0	\$3,557	
28	May-13	May-13	Sales	\$625	62,579	\$31,125	\$0.4974	\$4,587	\$0.0733			\$2,610		\$1	\$38,948	\$36,337	\$4,937	\$31,125	\$5,212	
29	May-13	May-13	Sales	\$625	21,123	\$10,506	\$0.4974	\$1,548	\$0.0733		\$419	\$881		\$1	\$13,980	\$12,679	\$4,937	\$10,506	\$2,173	
33	May-13	May-13	Sales	\$405	0	\$0		\$0		\$29	\$13	\$0		\$1	\$448	\$405	\$4,937	\$0	\$405	
36	May-13	May-13	Trans	\$715	56,021	N/A		\$4,106	\$0.0733		\$221	\$2,336		\$1	\$7,380	\$4,821	\$4,937	\$0	\$4,821	
55	May-13	May-13	Trans		0	N/A		\$0						\$1	\$0	\$0	\$4,937	\$0	\$0	
67	May-13	May-13	Trans	\$715	0	N/A		\$0						\$1	\$716	\$715	\$4,937	\$0	\$715	
5	Jun-13	Jun-13	Trans	\$485	56,391	N/A		\$4,133	\$0.0733		\$216	\$2,351		\$1	\$7,186	\$4,618	\$4,7584	\$0	\$4,618	
6	Jun-13	Jun-13	Trans	\$485	14,657	N/A		\$1,074	\$0.0733			\$611		\$1	\$2,171	\$1,559	\$4,7584	\$0	\$1,559	
8	Jun-13	Jun-13	Trans	\$715	655,434	N/A		\$48,043	\$0.0733		\$2,353	\$27,332		\$1	\$78,444	\$48,758	\$4,7584	\$0	\$48,758	
11	Jun-13	Jun-13	Trans	\$275	26,930	N/A		\$1,974	\$0.0733	\$243	\$104	\$1,123		\$1	\$3,720	\$2,249	\$4,7584	\$0	\$2,249	
14	Jun-13	Jun-13	Sales		0	N/A		\$0							\$0	\$0	\$4,7584	\$0	\$0	
15	Jun-13	Jun-13	Trans	\$715	49,451	N/A		\$3,625	\$0.0733		\$198	\$2,062		\$1	\$6,601	\$4,340	\$4,7584	\$0	\$4,340	
16	Jun-13	Jun-13	Trans	\$715	120,875	N/A		\$11,024	\$0.0912			\$5,040		\$1	\$16,780	\$11,739	\$4,7584	\$0	\$11,739	
17	Jun-13	Jun-13	Trans	\$485	32,890	N/A		\$2,411	\$0.0733			\$1,372		\$1	\$4,268	\$2,896	\$4,7584	\$0	\$2,896	
19	Jun-13	Jun-13	Trans	\$715	59,422	N/A		\$4,356	\$0.0733			\$2,478		\$1	\$7,549	\$5,071	\$4,7584	\$0	\$5,071	
20	Jun-13	Jun-13	Trans	\$715	23,846	N/A		\$1,748	\$0.0733		\$5	\$994		(\$0)	\$3,463	\$2,463	\$4,7584	\$0	\$2,463	
24	Jun-13	Jun-13	Trans	\$715	0	N/A		\$0			\$22	\$0		\$1	\$738	\$715	\$4,7584	\$0	\$715	
25	Jun-13	Jun-13	Trans	\$485	32,323	N/A		\$2,369	\$0.0733		\$130	\$1,348		\$1	\$4,333	\$2,854	\$4,7584	\$0	\$2,854	
28	Jun-13	Jun-13	Sales	\$625	63,817	\$30,367	\$0.4758	\$4,678	\$0.0733			\$2,661		\$1	\$38,331	\$35,669	\$4,7584	\$30,367	\$5,303	
29	Jun-13	Jun-13	Sales	\$625	34,412	\$16,375	\$0.4758	\$2,522	\$0.0733		\$648	\$1,435		\$1	\$21,606	\$19,522	\$4,7584	\$16,375	\$3,147	
33	Jun-13	Jun-13	Sales	\$405	0	\$0		\$0		\$29	\$13	\$0		\$1	\$448	\$405	\$4,7584	\$0	\$405	
36	Jun-13	Jun-13	Trans	\$715	102,790	N/A		\$7,535	\$0.0733		\$388	\$4,286		\$1	\$12,924	\$8,250	\$4,7584	\$0	\$8,250	
55	Jun-13	Jun-13	Trans	\$715	14,869	N/A		\$1,090	\$0.0733		\$4	\$620		\$1	\$2,430	\$1,805	\$4,7584	\$0	\$1,805	

Assigned #	Month Charges Apply To	Banner Bill Date mo/yr	Sales or Trans	Customer	Usage (therms)	Commodity charge (per therm)	Commodity y rate (¢/therm)	Distribution charge	Distribution rate	Sales tax	G&T	Energy Efficiency Surcharge	Paperless credit	Other charges	Total revenue	Revenue subject to Margin	Gas Cost per Dth	Total Gas Cost	Total Margin	Comment
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)	(t)	(u)
67	Jun-13	Jun-13	Trans	\$715	0	N/A	N/A	\$0	\$0.0733		\$243	\$2,677		\$1	\$716	\$715	\$4,7584	\$0	\$715	
5	Jul-13	Jul-13	Trans	\$485	64,197	N/A	N/A	\$4,706	\$0.0733					\$1	\$8,112	\$5,191	\$4,5055	\$0	\$5,191	
6	Jul-13	Jul-13	Trans	\$485	11,126	N/A	N/A	\$816	\$0.0733			\$464		\$1	\$1,765	\$1,301	\$4,5055	\$0	\$1,765	
8	Jul-13	Jul-13	Trans	\$715	803,515	N/A	N/A	\$58,898	\$0.0733		\$2,880	\$33,507		\$145	\$96,144	\$59,613	\$4,5055	\$0	\$59,613	
11	Jul-13	Jul-13	Trans	\$275	25,437	N/A	N/A	\$1,865	\$0.0733	\$231	\$99	\$0		\$172	\$3,702	\$2,140	\$4,5055	\$0	\$2,140	
14	Jul-13	Jul-13	Sales	\$625	3	\$2	\$0.4506	\$0	\$0.0912		\$39	\$0		\$1	\$667	\$627	\$4,5055	\$2	\$625	
14	Jun-13	Jul-13	Sales	\$625	4	\$2	\$0.4743	\$0	\$0.0912			\$0		\$1	\$628	\$627	\$4,7584	\$2	\$625	
15	Jul-13	Jul-13	Trans	\$715	44,144	N/A	N/A	\$3,236	\$0.0733		\$179	\$1,841		\$1	\$5,972	\$3,951	\$4,5055	\$0	\$3,951	
16	Jul-13	Jul-13	Trans	\$715	104,384	N/A	N/A	\$9,520	\$0.0912			\$4,353		\$1	\$14,588	\$10,235	\$4,5055	\$0	\$10,235	
17	Jul-13	Jul-13	Trans	\$485	33,479	N/A	N/A	\$2,456	\$0.0733			\$1,396		\$1	\$4,336	\$2,939	\$4,5055	\$0	\$2,939	
19	Jul-13	Jul-13	Trans	\$715	74,429	N/A	N/A	\$5,456	\$0.0733		\$6	\$3,104		\$1	\$9,275	\$6,171	\$4,5055	\$0	\$6,171	
20	Jul-13	Jul-13	Trans	\$715	29,892	N/A	N/A	\$2,191	\$0.0733		\$22	\$1,246		\$225	\$4,384	\$2,906	\$4,5055	\$0	\$2,906	
24	Jul-13	Jul-13	Trans	\$715	0	N/A	N/A	\$0	\$0.0733			\$0		\$188	\$925	\$715	\$4,5055	\$0	\$715	
25	Jul-13	Jul-13	Trans	\$485	29,902	N/A	N/A	\$2,192	\$0.0733		\$121	\$1,247		\$1	\$4,046	\$2,677	\$4,5055	\$0	\$2,677	
28	Jul-13	Jul-13	Sales	\$625	63,654	\$28,679	\$0.4506	\$4,666	\$0.0733			\$2,654		\$1	\$36,625	\$33,970	\$4,5055	\$28,679	\$5,291	
29	Jul-13	Jul-13	Sales	\$625	30,372	\$13,684	\$0.4506	\$2,226	\$0.0733	\$29	\$551	\$1,267		\$1	\$18,353	\$16,535	\$4,5055	\$13,684	\$2,851	
33	Jul-13	Jul-13	Sales	\$405	0	\$0	\$0	\$0	\$0.0733		\$13	\$400		\$1	\$448	\$405	\$4,5055	\$0	\$405	
36	Jul-13	Jul-13	Trans	\$715	106,241	N/A	N/A	\$7,787	\$0.0733		\$400	\$4,430		\$1	\$13,334	\$8,502	\$4,5055	\$0	\$8,502	
55	Mar-13	Jul-13	Trans	\$715	10,402	N/A	N/A	\$762	\$0.0733		\$3	\$434		\$1	\$1,915	\$1,477	\$4,5055	\$0	\$1,477	
55	Mar-13	Jul-13	Trans	\$715	23,639	N/A	N/A	\$1,733	\$0.0733		\$5	\$986		\$1	\$3,440	\$2,448	\$5,4590	\$0	\$2,448	adj for Mar'13
55	Apr-13	Jul-13	Trans	\$715	19,660	N/A	N/A	\$1,441	\$0.0733		\$5	\$820		\$1	\$2,981	\$2,156	\$4,6092	\$0	\$2,156	adj for Apr'13
55	May-13	Jul-13	Trans	\$715	9,946	N/A	N/A	\$729	\$0.0733		\$3	\$415		\$1	\$1,863	\$1,444	\$4,9737	\$0	\$1,444	adj for May'13
67	Jul-13	Jul-13	Trans	\$715	11,259	N/A	N/A	\$825	\$0.0733			\$0		\$19	\$1,559	\$1,540	\$4,5055	\$0	\$1,540	
5	Aug-13	Aug-13	Trans	\$485	79,646	N/A	N/A	\$5,838	\$0.0733		\$298	\$3,321		\$1	\$9,943	\$6,323	\$4,3278	\$0	\$6,323	
6	Aug-13	Aug-13	Trans	\$485	12,428	N/A	N/A	\$911	\$0.0733			\$518		\$1	\$1,915	\$1,396	\$4,3278	\$0	\$1,396	
8	Aug-13	Aug-13	Trans	\$715	752,576	N/A	N/A	\$55,164	\$0.0733	\$75	\$2,699	\$31,382		\$133	\$90,035	\$55,879	\$4,3278	\$0	\$55,879	
11	Aug-13	Aug-13	Trans	\$275	26,344	N/A	N/A	\$1,931	\$0.0733	\$239	\$102	\$1,099		\$133	\$3,778	\$2,206	\$4,3278	\$0	\$2,206	
14	Aug-13	Aug-13	Sales	\$625	0	\$0	\$0	\$0	\$0.0912		\$19	\$645		\$1	\$645	\$625	\$4,3278	\$0	\$625	
15	Aug-13	Aug-13	Trans	\$715	52,196	N/A	N/A	\$3,826	\$0.0733		\$208	\$2,177		\$1	\$6,926	\$4,541	\$4,3278	\$0	\$4,541	
16	Aug-13	Aug-13	Trans	\$715	117,098	N/A	N/A	\$10,679	\$0.0912			\$4,883		\$1	\$16,278	\$11,394	\$4,3278	\$0	\$11,394	
17	Aug-13	Aug-13	Trans	\$485	44,528	N/A	N/A	\$3,264	\$0.0733			\$1,857		\$1	\$5,607	\$3,749	\$4,3278	\$0	\$3,749	
19	Aug-13	Aug-13	Trans	\$715	58,117	N/A	N/A	\$4,260	\$0.0733			\$2,423		\$1	\$7,399	\$4,975	\$4,3278	\$0	\$4,975	
20	Aug-13	Aug-13	Trans	\$715	26,380	N/A	N/A	\$1,934	\$0.0733		\$6	\$1,100		(\$0)	\$3,643	\$2,648	\$4,3278	\$0	\$2,648	
24	Aug-13	Aug-13	Trans	\$715	0	N/A	N/A	\$0	\$0.0733		\$22	\$0		\$94	\$831	\$715	\$4,3278	\$0	\$715	
25	Aug-13	Aug-13	Trans	\$485	33,004	N/A	N/A	\$2,419	\$0.0733		\$132	\$1,376		\$1	\$4,414	\$2,904	\$4,3278	\$0	\$2,904	
28	Aug-13	Aug-13	Sales	\$625	67,482	\$29,205	\$0.4328	\$4,946	\$0.0733			\$2,814		\$1	\$37,591	\$34,777	\$4,3278	\$29,205	\$5,571	
29	Aug-13	Aug-13	Sales	\$625	42,423	\$18,360	\$0.4328	\$3,110	\$0.0733		\$738	\$1,769		\$1	\$24,603	\$22,095	\$4,3278	\$18,360	\$3,735	
33	Aug-13	Aug-13	Sales	\$405	0	\$0	\$0	\$0	\$0.0733	\$29	\$13	\$0		\$1	\$448	\$405	\$4,3278	\$0	\$405	
36	Aug-13	Aug-13	Trans	\$715	39,933	N/A	N/A	\$2,927	\$0.0733		\$164	\$1,665		\$1	\$5,472	\$3,642	\$4,3278	\$0	\$3,642	
55	Aug-13	Aug-13	Trans	\$715	15,024	N/A	N/A	\$1,101	\$0.0733		\$4	\$626		\$202	\$2,648	\$1,816	\$4,3278	\$0	\$1,816	
67	Aug-13	Aug-13	Trans	\$715	29,360	N/A	N/A	\$2,152	\$0.0733					\$1	\$2,868	\$2,867	\$4,3278	\$0	\$2,867	
5	Sep-13	Sep-13	Trans	\$485	78,475	N/A	N/A	\$5,752	\$0.0733		\$294	\$3,272		\$1	\$9,805	\$6,237	\$4,0042	\$0	\$6,237	
6	Sep-13	Sep-13	Trans	\$485	12,952	N/A	N/A	\$949	\$0.0733			\$540		\$1	\$1,975	\$1,434	\$4,0042	\$0	\$1,434	
8	Sep-13	Sep-13	Trans	\$715	817,334	N/A	N/A	\$59,911	\$0.0733		\$2,929	\$34,083		\$76	\$97,713	\$60,626	\$4,0042	\$0	\$60,626	
11	Sep-13	Sep-13	Trans	\$275	26,403	N/A	N/A	\$1,935	\$0.0733	\$239	\$102	\$1,101		\$86	\$3,739	\$2,210	\$4,0042	\$0	\$2,210	
14	Sep-13	Sep-13	Sales	\$625	0	\$0	\$0	\$0	\$0.0912		\$19	\$0		\$1	\$645	\$625	\$4,0042	\$0	\$625	
15	Sep-13	Sep-13	Trans	\$715	69,086	N/A	N/A	\$6,301	\$0.0912		\$306	\$2,881		\$1	\$10,203	\$7,016	\$4,0042	\$0	\$7,016	
16	Sep-13	Sep-13	Trans	\$715	132,044	N/A	N/A	\$12,042	\$0.0912			\$5,506		\$204	\$18,468	\$12,757	\$4,0042	\$0	\$12,757	
17	Sep-13	Sep-13	Trans	\$485	35,865	N/A	N/A	\$2,629	\$0.0733			\$1,496		\$1	\$4,610	\$3,114	\$4,0042	\$0	\$3,114	
19	Sep-13	Sep-13	Trans	\$715	67,694	N/A	N/A	\$4,962	\$0.0733			\$2,823			\$8,501	\$5,677	\$4,0042	\$0	\$5,677	
20	Sep-13	Sep-13	Trans	\$715	17,924	N/A	N/A	\$1,314	\$0.0733		\$4	\$747		\$116	\$2,896	\$2,028	\$4,0042	\$0	\$2,028	
24	Sep-13	Sep-13	Trans	\$715	0	N/A	N/A	\$0	\$0.2206			\$0		\$105	\$842	\$715	\$4,0042	\$0	\$715	
25	Sep-13	Sep-13	Trans	\$485	34,050	N/A	N/A	\$2,496	\$0.0733		\$136	\$1,420		\$1	\$4,538	\$4,538	\$4,0042	\$0	\$2,981	
28	Sep-13	Sep-13	Sales	\$625	94,663	\$37,905	\$0.4004	\$6,939	\$0.0733			\$3,947		\$236	\$49,652	\$45,469	\$4,0042	\$37,905	\$7,564	
29	Sep-13	Sep-13	Sales	\$625	48,677	\$19,491	\$0.4004	\$3,568	\$0.0733		\$795	\$2,050		\$1	\$26,510	\$23,684	\$4,0042	\$19,491	\$4,193	
36	Sep-13	Sep-13	Trans	\$715	83,067	N/A	N/A	\$6,089	\$0.0733			\$3,464		\$1	\$10,586	\$6,804	\$4,0042	\$0	\$6,804	
55	Sep-13	Sep-13	Trans	\$715	17,464	N/A	N/A	\$1,280	\$0.0733		\$4	\$728		\$80	\$2,807	\$1,995	\$4,0042	\$0	\$1,995	
57	Sep-13	Sep-13	Trans	\$715	0	N/A	N/A	\$0	\$0.0733		\$324	\$3,623		\$37	\$10,801	\$7,521	\$4,0042	\$0	\$7,521	
5	Oct-13	Oct-13	Trans	\$485	86,880	N/A	N/A	\$6,368	\$0.0733					\$1	\$10,801	\$6,853	\$4,3039	\$0	\$6,853	
6	Oct-13	Oct-13	Trans	\$485	17,482	N/A	N/A	\$1,281	\$0.0733			\$729		\$1	\$2,496	\$1,766	\$4,3039	\$0	\$1,766	

Assigned #	Month Charges Apply To	Banner Bill Date/mo/yr	Sales or Trans	Customer	Usage (therms)	Commodity charge (per therm)	Commodit y rate (¢/therm)	Distribution charge	Distribution rate	Sales tax	GEI	Energy Efficiency Surcharge	Paperless credit	Other charges	Total revenue	Revenue subject to Margin Sliding	Gas Cost per Dth	Total Gas Cost	Total Margin	Comment
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)	(t)	(u)
8	Oct-13	Oct-13	Trans	\$715	824,320	N/A		\$60,423	\$0.0733	\$2,954	\$34,374	\$76		\$76	\$98,542	\$61,138	\$4,3039	\$0	\$61,138	
11	Oct-13	Oct-13	Trans	\$275	29,277	N/A		\$2,146	\$0.0733	\$113	\$1,221	\$86		\$86	\$4,104	\$2,421	\$4,3039	\$0	\$2,421	
14	Oct-13	Oct-13	Sales	\$625	52,182	\$22,459	\$0.4304	\$4,759	\$0.0912	\$928	\$2,766	\$1		\$1	\$30,948	\$27,843	\$4,3039	\$22,459	\$5,384	
15	Oct-13	Oct-13	Trans	\$715	90,317	N/A		\$8,237	\$0.0912	\$393	\$3,766	\$1		\$1	\$13,112	\$8,952	\$4,3039	\$0	\$8,952	
16	Oct-13	Oct-13	Trans	\$715	205,003	N/A		\$18,696	\$0.0912		\$8,549	\$232			\$28,192	\$19,411	\$4,3039	\$0	\$19,411	
17	Oct-13	Oct-13	Trans	\$485	51,985	N/A		\$3,811	\$0.0733		\$2,168	\$1		\$1	\$6,464	\$4,296	\$4,3039	\$0	\$4,296	
19	Oct-13	Oct-13	Trans	\$715	72,071	N/A		\$5,283	\$0.0733		\$3,005	\$1		\$1	\$9,004	\$5,998	\$4,3039	\$0	\$5,998	
20	Oct-13	Oct-13	Trans	\$715	41,387	N/A		\$3,034	\$0.0733		\$1,726	\$1		\$1	\$5,600	\$3,748	\$4,3039	\$0	\$3,748	
24	Oct-13	Oct-13	Trans	\$715	0	N/A		\$22	\$0.2206		\$831	\$94	(\$0)		\$831	\$715	\$4,3039	\$0	\$715	
25	Oct-13	Oct-13	Sales	\$485	42,129	N/A		\$3,088	\$0.0733	\$165	\$1,757	\$1		\$1	\$5,496	\$3,573	\$4,3039	\$0	\$3,573	
28	Oct-13	Oct-13	Sales	\$625	95,368	\$41,046	\$0.4304	\$6,990	\$0.0733	\$358	\$838	\$1		\$1	\$52,639	\$48,661	\$4,3039	\$41,046	\$7,615	
29	Oct-13	Oct-13	Sales	\$625	20,098	\$8,650	\$0.4304	\$1,473	\$0.0733	\$358	\$838	\$1		\$1	\$11,946	\$10,748	\$4,3039	\$8,650	\$2,098	
36	Oct-13	Oct-13	Trans	\$715	73,883	N/A		\$5,416	\$0.0733	\$285	\$3,081	\$1		\$1	\$9,497	\$6,131	\$4,3039	\$0	\$6,131	
55	Oct-13	Oct-13	Trans	\$715	17,387	N/A		\$1,274	\$0.0733	\$4	\$725	\$10		\$10	\$2,534	\$1,989	\$4,3039	\$0	\$1,989	
67	Oct-13	Oct-13	Trans	\$715	0	N/A		\$0	\$0.0733		\$2,885	\$1		\$1	\$7,25	\$715	\$4,3039	\$0	\$715	
5	Nov-13	Nov-13	Trans	\$485	69,175	N/A		\$5,071	\$0.0733	\$261	\$2,885	\$1		\$1	\$8,702	\$5,556	\$4,3039	\$0	\$5,556	
6	Nov-13	Nov-13	Trans	\$485	14,738	N/A		\$1,080	\$0.0733	\$1	\$615	\$1		\$1	\$2,181	\$1,565	\$4,3039	\$0	\$1,565	
8	Nov-13	Nov-13	Trans	\$715	739,641	N/A		\$54,216	\$0.0733	\$20	\$30,843	\$1		\$1	\$88,427	\$54,931	\$4,3039	\$0	\$54,931	
11	Nov-13	Nov-13	Trans	\$275	0	N/A		\$0	\$0.0733		\$9	\$0		\$0	\$304	\$275	\$4,3039	\$0	\$275	
14	Nov-13	Nov-13	Sales	\$625	271,959	\$0.4339		\$24,803	\$0.0912	\$4,786	\$11,341	\$1		\$1	\$159,545	\$143,417	\$4,3039	\$117,989	\$25,428	
15	Nov-13	Nov-13	Trans	\$715	135,108	N/A		\$12,322	\$0.0912	\$577	\$5,634	\$1		\$1	\$19,249	\$13,037	\$4,3039	\$0	\$13,037	
16	Nov-13	Nov-13	Trans	\$715	353,112	N/A		\$32,204	\$0.0912		\$14,725	\$1		\$1	\$47,644	\$32,919	\$4,3039	\$0	\$32,919	
17	Nov-13	Nov-13	Trans	\$485	38,580	N/A		\$2,828	\$0.0733		\$1,609	\$1		\$1	\$4,922	\$3,313	\$4,3039	\$0	\$3,313	
19	Nov-13	Nov-13	Trans	\$715	79,692	N/A		\$5,841	\$0.0733	\$1	\$3,323	\$1		\$1	\$9,880	\$6,556	\$4,3039	\$0	\$6,556	
20	Nov-13	Nov-13	Trans	\$715	57,673	N/A		\$4,227	\$0.0733	\$11	\$2,405	\$1		\$1	\$6,792	\$4,942	\$4,3039	\$0	\$4,942	
24	Nov-13	Nov-13	Trans	N/A	N/A	N/A		\$0.2206	\$0.2206		\$0	\$0	(\$0)		\$0	\$0	\$4,3039	\$0	\$0	
25	Nov-13	Nov-13	Trans	\$485	58,747	N/A		\$4,306	\$0.0733	\$224	\$2,450	\$1		\$1	\$7,466	\$4,791	\$4,3039	\$0	\$4,791	
28	Nov-13	Nov-13	Sales	\$625	93,631	\$40,622	\$0.4339	\$6,863	\$0.0733	\$3	\$3,904	\$1		\$1	\$52,015	\$48,110	\$4,3039	\$40,622	\$7,488	
29	Nov-13	Nov-13	Sales	\$625	8,751	\$3,797	\$0.4339	\$641	\$0.0733	\$168	\$365	\$1		\$1	\$5,597	\$5,063	\$4,3039	\$3,797	\$1,266	
36	Nov-13	Nov-13	Trans	\$715	96,621	N/A		\$7,082	\$0.0733	\$366	\$4,029	\$1		\$1	\$12,193	\$7,797	\$4,3039	\$0	\$7,797	
55	Nov-13	Nov-13	Trans	\$715	25,316	N/A		\$1,856	\$0.0733	\$6	\$1,056	\$1		\$1	\$3,633	\$2,571	\$4,3039	\$0	\$2,571	
67	Nov-13	Nov-13	Trans	\$715	0	N/A		\$0	\$0.0733		\$272	\$1		\$1	\$715	\$715	\$4,3039	\$0	\$715	
5	Dec-13	Dec-13	Trans	\$485	47,440	N/A		\$3,477	\$0.0733	\$184	\$1,978	\$1		\$1	\$6,125	\$3,962	\$5,8338	\$0	\$3,962	
6	Nov-13	Dec-13	Trans	(\$485)	(14,738)	N/A		(\$1,080)	\$0.0733		(\$615)	(\$1)		(\$1)	(\$2,181)	(\$1,565)	\$4,3039	\$0	(\$1,565) adj for Nov'13	
6	Nov-13	Dec-13	Trans	\$485	14,738	\$7,573	\$16.5717	\$1,047	\$0.0733	\$596	\$596	\$1		\$1	\$9,701	\$9,105	\$165.7171	\$7,573	\$1,532	
8	Dec-13	Dec-13	Trans	\$485	6,514	N/A		\$477	\$0.0733		\$272	\$1		\$1	\$1,235	\$962	\$5,8338	\$0	\$962	
11	Dec-13	Dec-13	Trans	\$715	517,610	N/A		\$37,941	\$0.0733	\$20	\$1,863	\$21,584		\$77	\$62,181	\$38,656	\$5,8338	\$0	\$38,656	
14	Dec-13	Dec-13	Sales	\$625	242,153	\$141,268	\$0.5834	\$22,084	\$0.0912		\$5,384	\$10,098		\$396	\$179,854	\$163,977	\$5,8338	\$141,268	\$22,709	
15	Dec-13	Dec-13	Trans	\$715	130,387	N/A		\$11,891	\$0.0912		\$5,437	\$1		\$1	\$18,602	\$12,606	\$5,8338	\$0	\$12,606	
16	Dec-13	Dec-13	Trans	\$715	314,183	N/A		\$28,653	\$0.0912	\$353	\$13,101	\$353		\$353	\$42,823	\$29,368	\$5,8338	\$0	\$29,368	
17	Nov-13	Dec-13	Trans	(\$485)	(38,580)	N/A		(\$2,828)	\$0.0733	(\$1)	(\$1,609)	(\$1)		(\$1)	(\$4,922)	(\$3,313)	\$4,3039	\$0	(\$3,313) adj for Nov'13	
17	Nov-13	Dec-13	Trans	\$485	38,580	\$2,433	\$16.5513	\$2,817	\$0.0733	\$1	\$1,603	\$1		\$1	\$7,339	\$5,735	\$165.5129	\$2,433	\$3,302	
19	Nov-13	Dec-13	Trans	\$485	18,752	N/A		\$1,374	\$0.0733	\$782	\$782	\$1		\$1	\$2,642	\$1,859	\$5,8338	\$0	\$1,859	
19	Nov-13	Dec-13	Trans	(\$715)	(79,692)	N/A		(\$5,841)	\$0.0733	(\$1)	(\$3,323)	(\$1)		(\$1)	(\$9,880)	(\$6,556)	\$4,3039	\$0	(\$6,556) adj for Nov'13	
19	Dec-13	Dec-13	Trans	\$715	79,692	\$6,477	\$16.5644	\$5,813	\$0.0733		\$3,307	\$1		\$1	\$16,312	\$13,004	\$165.6442	\$6,477	\$6,528	
19	Dec-13	Dec-13	Trans	\$715	18,703	N/A		\$1,371	\$0.0733		\$780	\$1		\$1	\$2,867	\$2,086	\$5,8338	\$0	\$2,086	
20	Dec-13	Dec-13	Trans	\$715	49,846	N/A		\$3,654	\$0.0733	\$10	\$2,079	\$1		\$1	\$6,458	\$4,368	\$5,8338	\$0	\$4,368	
24	Oct-13	Dec-13	Trans	(\$715)	0	N/A		\$0	\$0.2206	(\$22)	(\$22)	(\$1)		(\$1)	\$807	(\$715)	\$4,3039	\$0	(\$715) adj for Oct'13	
24	Oct-13	Dec-13	Trans	(\$715)	0	N/A		\$0	\$0.2206	\$70	\$22	\$0		\$0	\$807	\$715	\$4,3039	\$0	\$715	
25	Dec-13	Dec-13	Trans	\$625	\$5,050	N/A		\$4,035	\$0.0733	\$1	\$2,296	\$1		\$1	\$39,072	\$36,775	\$5,8338	\$0	\$0	
28	Dec-13	Dec-13	Sales	\$625	847	\$494	\$0.5834	\$62	\$0.0733	\$38	\$35	\$1		\$1	\$1,255	\$1,181	\$5,8338	\$494	\$687	
29	Dec-13	Dec-13	Sales	\$715	81,115	N/A		\$5,946	\$0.0733	\$311	\$3,383	\$1		\$1	\$10,355	\$6,661	\$5,8338	\$0	\$6,661	
36	Dec-13	Dec-13	Trans	\$715	24,455	N/A		\$1,793	\$0.0733	\$46	\$1,020	\$10		\$10	\$2,579	\$2,508	\$5,8338	\$0	\$2,508	
55	Dec-13	Dec-13	Trans	\$715	0	N/A		\$0	\$0.0733		\$131	\$1,506		\$1	\$725	\$715	\$5,8338	\$0	\$715	
67	Dec-13	Trans	Trans	\$485	30,605	N/A		\$2,243	\$0.0733	\$1	\$4,366	\$2,728		\$1	\$4,366	\$2,728	\$10.0237	\$0	\$2,728	
5	Jan-14	Jan-14	Trans	\$485	0	N/A		\$0	\$0.0733	\$95	\$580	\$485		\$1	\$580	\$485	\$5,8338	\$0	\$485	
6	Jan-14	Jan-14	Trans	(\$715)	(517,610)	N/A		(\$37,941)	\$0.0733	(\$1)	(\$1,863)	(\$21,584)		(\$1)	(\$62,104)	(\$38,656)	\$5,8338	\$0	(\$38,656) adj for Dec'13	
8	Dec-13	Jan-14	Trans	\$715	517,590	\$549	\$26.1257	\$37,939	\$0.0733	\$77	\$1,880	\$21,583		\$77	\$62,744	\$39,203	\$261.2571	\$549	\$38,654	

Assigned #	Month Charges Apply To	Banner Bill Date/mo/yr	Sales or Trans	Customer	Usage (therms)	Commodity charge (per therm)	Commodit y rate	Distribution charge	Distribution rate	Sales tax	GEI	Efficiency Surcharge	Paperless credit	Other charges	Total revenue	Revenue subject to Margin Shrinking	Gas Cost per Dth	Total Gas Cost	Total Margin	Comment
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)	(t)	(u)
8	Jan-14	Jan-14	Trans	\$275	241,749	N/A		\$17,720	\$0.0733		\$938	\$11,894		\$1	\$31,268	\$18,435	\$10,0237	\$0	\$18,435	
11	Jan-14	Jan-14	Trans	\$715	9	N/A		\$1	\$0.0733	\$20	\$9	\$0		\$77	\$382	\$276	\$10,0237	\$0	\$276	
14	Jan-14	Jan-14	Sales	\$625	112,523	N/A	\$1,0024	\$10,262	\$0.0912		\$3,996	\$5,536		\$1	\$13,210	\$123,677	\$10,0237	\$112,790	\$730	
15	Jan-14	Jan-14	Trans	\$715	72,532	N/A		\$6,615	\$0.0912		\$337	\$3,569		\$1	\$11,236	\$7,330	\$10,0237	\$0	\$7,330	
16	Jan-14	Jan-14	Trans	\$715	196,626	N/A		\$17,932	\$0.0912			\$9,674		\$1,132	\$29,453	\$18,647	\$10,0237	\$0	\$18,647	
17	Dec-13	Jan-14	Trans	(\$485)	(18,752)	N/A		(\$1,374)	\$0.0733			(\$782)		(\$1)	(\$2,642)	(\$1,859)	\$5,8338	\$0	(\$1,859)	adj for Dec'13
17	Dec-13	Jan-14	Trans	\$485	18,752	\$13,698	\$26,5471	\$1,337	\$0.0733			\$760		\$1	\$16,281	\$15,520	\$265,4705	\$13,698	\$1,822	Curtailment of 516 therms
17	Jan-14	Jan-14	Trans	\$485	2,244	N/A		\$164	\$0.0733			\$110		\$1	\$796	\$649	\$10,0237	\$0	\$649	
19	Jan-14	Jan-14	Trans	\$715	0	N/A		\$0	\$0.0733			\$0		\$81	\$0	\$715	\$10,0237	\$0	\$715	
20	Jan-14	Jan-14	Trans	\$715	29,887	N/A		\$2,191	\$0.0733		\$7	\$1,470		(\$0)	\$4,383	\$2,905	\$10,0237	\$0	\$2,905	
24	Jan-14	Jan-14	Trans		0	N/A		\$0	\$0.2206					\$60	\$0	\$0	\$10,0237	\$0	\$0	
25	Jan-14	Jan-14	Trans		2,962	N/A		\$217	\$0.0733			\$146		\$1	\$3,958	\$3,812	\$10,0237	\$2,969	\$842	
28	Jan-14	Jan-14	Sales	\$625	0	\$0		\$0	\$0.0733		\$19	\$0		\$1	\$645	\$625	\$10,0237	\$0	\$625	
29	Jan-14	Jan-14	Sales	\$625	(81,115)	N/A		(\$5,946)	\$0.0733		(\$311)	(\$3,383)		(\$1)	(\$10,355)	(\$6,661)	\$5,8338	\$0	(\$6,661)	adj for Dec'13
36	Dec-13	Jan-14	Trans	\$715	80,810	N/A	\$26,5326	\$5,923	\$0.0733		\$560	\$3,370		\$1	\$18,661	\$14,731	\$265,3262	\$8,092	\$6,638	Curtailment of 305 therms
36	Jan-14	Jan-14	Trans	\$715	31,392	N/A		\$2,301	\$0.0733		\$472	\$1,545		\$1	\$4,702	\$3,016	\$10,0237	\$0	\$3,016	
55	Dec-13	Jan-14	Trans	(\$715)	(24,455)	N/A		(\$1,793)	\$0.0733		(\$5)	(\$1,020)		(\$1)	(\$3,534)	(\$5,8338)	\$5,8338	\$0	(\$2,508)	adj for Dec'13
55	Dec-13	Jan-14	Trans	\$715	24,455	\$56,465	\$23,3328	\$1,615	\$0.0733		\$92	\$919		\$82	\$59,888	\$58,796	\$233,3281	\$56,465	\$2,330	Curtailment of 2420 therms
67	Jan-14	Jan-14	Trans	\$715	0	N/A		\$0	\$0.0733			\$0		\$19	\$734	\$715	\$10,0237	\$0	\$715	
5	Feb-14	Feb-14	Trans	\$485	44,347	N/A		\$3,251	\$0.0733		\$183	\$2,182		\$1	\$6,101	\$3,736	\$21,5004	\$0	\$3,736	
6	Feb-14	Feb-14	Trans	\$485	0	N/A		\$0	\$0.0733			\$0		\$96	\$581	\$485	\$21,5004	\$0	\$485	
8	Feb-14	Feb-14	Trans	\$715	380,708	N/A		\$27,906	\$0.0733	\$20	\$1,465	\$18,731		\$86	\$48,903	\$28,621	\$21,5004	\$0	\$28,621	
11	Feb-14	Feb-14	Trans	\$275	0	N/A		\$0	\$0.0733		\$9	\$0		\$86	\$390	\$275	\$21,5004	\$0	\$275	
14	Feb-14	Feb-14	Sales	\$625	33,946	\$72,986	\$2,1500	\$3,096	\$0.0912		\$2,424	\$1,670		\$1	\$80,802	\$76,707	\$21,5004	\$72,986	\$3,721	
15	Feb-14	Feb-14	Trans	\$715	103,517	N/A		\$9,441	\$0.0912		\$472	\$1,093		\$1	\$15,721	\$10,156	\$21,5004	\$0	\$10,156	
16	Feb-14	Feb-14	Trans	\$715	246,111	N/A		\$22,445	\$0.0912			\$12,109		\$369	\$35,638	\$23,160	\$21,5004	\$0	\$23,160	
17	Feb-14	Feb-14	Trans	\$485	0	N/A		\$0	\$0.0733			\$0		\$201	\$686	\$485	\$21,5004	\$0	\$485	
17	Feb-14	Feb-14	Trans	\$715	0	N/A		\$0	\$0.0733			\$0		\$82	\$797	\$715	\$21,5004	\$0	\$715	
20	Feb-14	Feb-14	Trans	\$715	40,041	N/A		\$2,935	\$0.0733		\$9	\$1,970		(\$0)	\$5,629	\$3,650	\$21,5004	\$0	\$3,650	
24	Dec-13	Feb-14	Trans	0	0	N/A		\$0	\$0.2206			\$0		\$1	\$1	\$0	\$5,8338	\$0	\$0	
24	Dec-13	Feb-14	Trans	0	0	N/A		\$0	\$0.2206		\$0	\$0		\$1	\$1	\$0	\$10,0237	\$0	\$0	
24	Jan-14	Feb-14	Trans	0	0	N/A		\$0	\$0.2206		\$0	\$0		\$1	\$1	\$0	\$21,5004	\$0	\$0	
24	Feb-14	Feb-14	Trans	0	0	N/A		\$0	\$0.0733					(\$1)	(\$5,496)	(\$3,573)	\$4,3039	\$0	(\$3,573)	adj for Oct'13
25	Oct-13	Feb-14	Trans	(\$485)	(42,129)	N/A		(\$3,088)	\$0.0733		(\$165)	(\$1,757)		(\$1)	\$5,623	\$3,652	\$4,3039	\$0	\$3,652	adj for Oct'13
25	Oct-13	Feb-14	Trans	\$485	43,206	N/A		\$3,167	\$0.0733		\$169	\$1,802		\$1	\$626	\$625	\$21,5004	\$0	\$625	
28	Feb-14	Feb-14	Sales	\$625	0	\$0		\$0	\$0.0733			\$0		\$1	\$645	\$625	\$21,5004	\$0	\$625	
29	Feb-14	Feb-14	Sales	\$625	0	\$0		\$0	\$0.0733			\$0		\$1	\$645	\$625	\$21,5004	\$0	\$625	
36	Feb-14	Feb-14	Trans	\$715	57,523	N/A		\$4,216	\$0.0733		\$240	\$2,830		\$163	\$8,165	\$4,931	\$21,5004	\$0	\$4,931	
35	Jan-14	Feb-14	Trans		15,429	N/A		\$1,131	\$0.0733		\$3	\$759		\$785	\$2,678	\$1,131	\$10,0237	\$0	\$1,131	
55	Feb-14	Feb-14	Trans	\$715	17,374	N/A		\$1,274	\$0.0733		\$3	\$855		\$1	\$2,132	\$1,274	\$21,5004	\$0	\$1,274	
67	Feb-14	Feb-14	Trans	\$715	0	N/A		\$0	\$0.0733			\$0		\$10	\$725	\$715	\$21,5004	\$0	\$715	
5	Mar-14	Mar-14	Trans	\$485	83,061	N/A		\$6,088	\$0.0733		\$330	\$4,087		\$1	\$10,990	\$6,573	\$8,5112	\$0	\$6,573	
8	Mar-14	Mar-14	Trans	\$485	535,705	N/A		\$39,267	\$0.0733			\$26,357		\$87	\$68,478	\$39,982	\$8,5112	\$0	\$39,982	
11	Mar-14	Mar-14	Trans	\$275	0	N/A		\$0	\$0.0733	\$20	\$2,052	\$26,357		\$86	\$390	\$275	\$8,5112	\$0	\$275	
14	Mar-14	Mar-14	Sales	\$625	268,019	N/A	\$0,8511	\$24,443	\$0.0912		\$8,238	\$13,187		\$1	\$274,610	\$253,185	\$8,5112	\$228,116	\$25,068	
15	Mar-14	Mar-14	Trans	\$715	145,359	N/A		\$13,257	\$0.0912		\$653	\$7,152		\$1	\$21,777	\$13,972	\$8,5112	\$0	\$13,972	
16	Mar-14	Mar-14	Trans	\$715	335,104	N/A		\$30,561	\$0.0912			\$16,487		\$1	\$47,764	\$31,276	\$8,5112	\$0	\$31,276	
17	Mar-14	Mar-14	Trans	\$485	0	N/A		\$0	\$0.0733			\$0		\$204	\$689	\$485	\$8,5112	\$0	\$485	
19	Mar-14	Mar-14	Trans	\$715	0	N/A		\$0	\$0.0733			\$0		\$83	\$798	\$715	\$8,5112	\$0	\$715	
20	Mar-14	Mar-14	Trans	\$715	59,589	N/A		\$4,368	\$0.0733		\$12	\$2,932		(\$0)	\$8,027	\$5,083	\$8,5112	\$0	\$5,083	
24	Mar-14	Mar-14	Trans		0	N/A		\$0	\$0.2206		\$0			\$1	\$1	\$0	\$8,5112	\$0	\$0	
25	Mar-14	Mar-14	Trans		0	N/A		\$0	\$0.0733			\$0		\$1	\$0	\$0	\$8,5112	\$0	\$0	
28	Mar-14	Mar-14	Sales	\$625	0	\$0		\$0	\$0.0733		\$1	\$0		\$1	\$626	\$625	\$8,5112	\$0	\$625	
29	Mar-14	Mar-14	Sales	\$625	0	\$0		\$0	\$0.0733		\$1	\$0		\$9	\$635	\$625	\$8,5112	\$0	\$625	
36	Mar-14	Mar-14	Trans	\$715	83,027	N/A		\$6,086	\$0.0733		\$337	\$4,085		\$207	\$11,429	\$6,801	\$8,5112	\$0	\$6,801	
55	Mar-14	Mar-14	Trans	\$715	17,007	N/A		\$1,247	\$0.0733		\$3	\$837		\$1	\$2,087	\$1,247	\$8,5112	\$0	\$1,247	
67	Mar-14	Mar-14	Trans	\$715	63,663	N/A		\$4,667	\$0.0733					\$10	\$5,391	\$5,382	\$8,5112	\$0	\$5,382	
Total				\$122,108	17,255,949	\$1,299,505		\$1,346,757		\$2,037	\$75,525	\$736,428	(\$4)	\$4,914	\$3,587,271	\$2,768,367		\$1,299,505	\$1,468,862	

Column (b) to Column (o) per customer billing information
Column (p) = Columns (e) + (g) + (i) + (k) + (m) + (o) + (o)
Column (q) = Columns (p) - [(k) + (i) + (m) + (o)]
Column (s) = Column (g)
Column (t) = Column (q) - Column (s)

Schedule YC-7
Reconciliation Factors

**National Grid - RI Gas
Reconciliation Factor effective November 1, 2014**

Section 1: Reconciliation of Prior Year DAC Factors (All Rate Classes)

Line No.	Description	Reference	Ending Balance	Period
1	System Pressure	Page 2, line 19	\$1,106,907	
2	Environmental - DAC	Page 2, line 28	\$56,174	
3	On-System Margin Credits	Page 3, line 55	\$9,329	
4	Pension	Page 4, line 64	(\$104,583)	Based on Nov 13-Oct 14
5	PBOP	Page 4, line 73	\$3,951	
6	Previous Reconciliation Factor	Page 3, line 37	(\$32,640)	
7	True-up October 13	Page 9, line 11	\$427,826	Based on Actual Oct 13 vs. Oct 13 Forecast
8	AGT Interest on Fund balance	YC-2, Page 2, line 14	<u>(\$29,930)</u>	Based on Apr 13-Mar 14
9	Sub Total	Sum of Lines (1) to (8)	\$1,437,035	
10	Firm Throughput	Nov 2014 - Oct 2015	38,110,517 dth	
11	Reconciliation Factor	Line (9) / Line (10)	\$0.0377 per dth	
12	Reconciliation Factor	Line (11) / 10	\$0.0037 per therm	

Section 2: Revenue Decoupling Mechanism Reconciliation (RDM Rate Classes)

Line No.	Description	Reference	Ending Balance	Period
13	RDA Reconciliation	Page 6, line 14	(\$728,904)	Based on Nov 13-Oct 14
14	RDM Recon Reconciliation	Page 6, line 29	<u>(\$33,697)</u>	Based on Nov 13-Oct 14
15	Sub Total	Line (13) + Line (14)	(\$762,601)	
16	Firm Throughput, Residential, Small & Medium C&I	Nov 2014 - Oct 2015	27,589,595 dth	
17	RDA Reconciliation Factor	Line (15) / Line (16)	(\$0.0276) per dth	
18	RDA Reconciliation Factor	Line (17) / 10	(\$0.0027) per therm	

Section 3: Reconciliation of Prior year DAC Factors (Large & X-Large Only)

Line No.	Description	Reference	Ending Balance	Period
19	AGT Factor - Base Rates	Page 5, line 16	(\$11,124)	
20	LIAP Factor - Base Rates	Page 5, line 29	(\$66,255)	Based on Apr 13-Mar 14
21	Environmental - Base Rates	Page 5, line 40	(\$48,623)	
22	Previous Reconciliation Factor	Page 3, line 46	<u>(\$12,561)</u>	Based on Nov 13-Oct 14
23	Sub Total	Sum of Lines (19) to (22)	(\$138,562)	
24	Firm Throughput, Large and Extra Large C&I	Nov 2014 - Oct 2015	10,520,922 dth	
25	L / XL Reconciliation Factor	Line (23) / Line (24)	(\$0.0131) per dth	
26	L / XL Reconciliation Factor ¹	Line (25) / 10	(\$0.0013) per therm	

¹ This rate will be combined with the Reconciliation factor of \$0.0037 per therm for an overall Large and Extra Large Reconciliation factor of \$0.0024 per therm

National Grid - RI Gas
Non-Base Rate / Gas Year Reconciling Components

Line No.		Nov-13 Actual (a)	Dec-13 Actual (b)	Jan-14 Actual (c)	Feb-14 Actual (d)	Mar-14 Actual (e)	Apr-14 Actual (f)	May-14 Actual (g)	Jun-14 Actual (h)	Jul-14 Forecast (i)	Aug-14 Forecast (j)	Sep-14 Forecast (k)	Oct-14 Forecast (l)	12 month End
		Prorated (49%/51%)		Prorated (60%/40%)										
1	System Pressure	\$0.034	\$0.038	\$0.038	\$0.038	\$0.038	\$0.038	\$0.039	\$0.038	\$0.038	\$0.038	\$0.038	\$0.038	
2	Environmental Response Credit (ERC)	(\$0.009)	\$0.001	\$0.001	\$0.001	\$0.001	\$0.001	\$0.001	\$0.001	\$0.001	\$0.001	\$0.001	\$0.001	
3	Reconciliation Factor (R)	\$0.028	\$0.041	\$0.041	\$0.041	\$0.041	\$0.041	\$0.043	\$0.041	\$0.041	\$0.041	\$0.041	\$0.041	
4	Reconciliation Factor (R) (L-XL)	\$0.009	(\$0.002)	(\$0.002)	(\$0.002)	(\$0.002)	(\$0.002)	(\$0.002)	(\$0.002)	(\$0.002)	(\$0.002)	(\$0.002)	(\$0.002)	
5	On System Margin Credit Factor (MC)	(\$0.016)	(\$0.012)	(\$0.012)	(\$0.012)	(\$0.012)	(\$0.012)	(\$0.012)	(\$0.012)	(\$0.012)	(\$0.012)	(\$0.012)	(\$0.012)	
6	Pension	\$0.057	\$0.045	\$0.045	\$0.045	\$0.045	\$0.045	\$0.047	\$0.045	\$0.045	\$0.045	\$0.045	\$0.045	
7	Postretirement Benefits (PBOP)	(\$0.018)	(\$0.021)	(\$0.021)	(\$0.021)	(\$0.021)	(\$0.021)	(\$0.022)	(\$0.021)	(\$0.021)	(\$0.021)	(\$0.021)	(\$0.021)	
8	RI Firm throughput (dth)	2,423,071	4,898,381	6,641,379	6,839,764	6,238,261	4,747,568	2,399,405	1,431,004	1,218,453	1,164,534	1,258,241	1,554,701	40,814,761
9	RI Firm Res H, NH, Small & Medium throughput (dth)	1,579,400	3,587,227	5,110,718	5,091,392	4,920,949	3,427,977	1,821,444	846,489	681,979	626,518	696,032	832,873	29,222,997
10	RI Firm L-XL Firm through-put (dth)	843,671	1,311,154	1,530,660	1,748,373	1,317,312	1,319,591	577,961	584,515	536,474	538,015	562,209	721,828	11,591,763
11	System Pressure Recon Adjust.													
12	System Pressure Acct Beg. Balance	\$0	\$118,219	\$139,917	\$734,203	\$799,277	\$759,277	\$703,460	\$733,582	\$804,046	\$882,706	\$963,499	\$1,040,781	\$0
13	Actual Costs	\$200,745	\$209,641	\$846,251	\$324,246	\$196,107	\$124,066	\$124,066	\$124,066	\$124,066	\$124,066	\$124,066	\$124,066	\$2,645,450
14	Actual Revenue	\$82,586	\$188,080	\$252,429	\$259,907	\$236,934	\$180,634	\$94,706	\$54,391	\$46,301	\$44,252	\$47,813	\$59,079	\$1,547,112
15	Ending Balance	\$118,159	\$139,781	\$733,739	\$798,542	\$758,450	\$702,709	\$732,820	\$803,257	\$881,811	\$962,520	\$1,039,752	\$1,105,768	\$1,098,338
16	Average Monthly Balance	\$59,079	\$129,000	\$436,828	\$766,372	\$778,864	\$730,993	\$718,140	\$768,420	\$842,929	\$922,613	\$1,001,626	\$1,073,274	
17	BK America Rate less 200 Basis Points	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
18	Interest Applied	\$61	\$137	\$464	\$735	\$827	\$751	\$762	\$789	\$895	\$979	\$1,029	\$1,139	\$8,569
19	Sys Pressure End Balance	\$118,219	\$139,917	\$734,203	\$799,277	\$759,277	\$703,460	\$733,582	\$804,046	\$882,706	\$963,499	\$1,040,781	\$1,106,907	\$1,106,907
20	Under/(over) Recovery		\$21,698	\$594,285	\$65,074	(\$40,000)	(\$55,817)	\$30,122	\$70,464	\$78,660	\$80,793	\$77,282	\$66,126	
21	Environmental Recon. Adjust - DAC													
22	Environmental Acct Beg. Balance	\$72,515	\$93,925	\$89,074	\$82,522	\$75,757	\$69,600	\$64,915	\$62,490	\$61,123	\$59,969	\$58,867	\$57,669	\$72,515
23	Actual Environmental Revenue	(\$21,325)	\$4,949	\$6,643	\$6,840	\$6,235	\$4,754	\$2,492	\$1,431	\$1,218	\$1,165	\$1,258	\$1,555	\$17,215
24	Ending Environmental Balance	\$93,840	\$88,976	\$82,431	\$75,682	\$69,522	\$64,846	\$62,423	\$61,059	\$59,905	\$58,804	\$57,609	\$56,114	\$55,300
25	Average Monthly Balance	\$83,178	\$91,451	\$85,752	\$79,102	\$72,640	\$67,223	\$63,669	\$61,775	\$60,514	\$59,386	\$58,238	\$56,891	
26	BK America Rate less 200 Basis Points	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
27	Interest Applied	\$85	\$97	\$91	\$76	\$77	\$69	\$68	\$63	\$64	\$63	\$60	\$60	\$874
28	Environmental Recon End Balance	\$93,925	\$89,074	\$82,522	\$75,757	\$69,600	\$64,915	\$62,490	\$61,123	\$59,969	\$58,867	\$57,669	\$56,174	\$56,174
29	Under/(over) Recovery	\$21,410	(\$4,852)	(\$6,552)	(\$6,764)	(\$6,158)	(\$4,685)	(\$2,424)	(\$1,368)	(\$1,154)	(\$1,102)	(\$1,198)	(\$1,495)	

30	Reconciliation Factor (Applicable to all) - DAC														
31	Recon Factor	Acct Beg. Balance	\$1,607,481	\$1,541,802	\$1,340,402	\$1,069,322	\$789,787	\$534,850	\$340,406	\$238,529	\$180,059	\$130,266	\$82,633	\$31,104	\$1,607,481
32	Actual Recon	Revenue	\$67,296	\$202,929	\$272,359	\$280,425	\$255,640	\$194,894	\$102,184	\$49,957	\$47,746	\$51,588	\$63,743	\$1,647,446	
33	Ending Recon	Balance	\$1,540,185	\$1,338,873	\$1,068,043	\$788,897	\$534,147	\$339,956	\$238,222	\$179,844	\$130,102	\$82,520	\$31,045	(\$32,639)	
34	Average Monthly Balance		\$1,573,833	\$1,440,337	\$1,204,223	\$929,109	\$661,967	\$437,403	\$289,314	\$209,186	\$155,080	\$106,393	\$56,839	(\$768)	
35	Bk America Rate less 200 Basis Points		1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
36	Interest Applied		\$1,617	\$1,529	\$1,278	\$891	\$703	\$449	\$307	\$215	\$165	\$113	\$58	(\$1)	
37	Reconciliation End Balance		\$1,541,802	\$1,340,402	\$1,069,322	\$789,787	\$534,850	\$340,406	\$238,529	\$180,059	\$130,266	\$82,633	\$31,104	(\$32,640)	
38	Under/(over) Recovery		\$65,679	\$201,400	\$271,081	\$279,534	\$254,937	\$194,445	\$101,877	\$58,470	\$49,792	\$47,633	\$51,530	\$63,744	
39	Reconciliation Factor (L & XL) - DAC														
40	Recon Factor	Acct Beg. Balance	\$26,453	\$33,892	(\$31,278)	(\$28,247)	(\$24,776)	(\$22,166)	(\$19,546)	(\$18,365)	(\$17,214)	(\$16,159)	(\$15,100)	(\$13,990)	(\$26,453)
41	Actual Recon	Revenue (L & XL)	\$7,408	(\$2,649)	(\$3,062)	(\$3,497)	(\$2,634)	(\$2,642)	(\$1,201)	(\$1,169)	(\$1,073)	(\$1,076)	(\$1,124)	(\$1,444)	
42	Ending Recon	Balance	(\$33,861)	(\$31,243)	(\$28,216)	(\$24,750)	(\$22,142)	(\$19,524)	(\$18,345)	(\$17,196)	(\$16,141)	(\$15,083)	(\$13,976)	(\$12,546)	
43	Average Monthly Balance		(\$30,157)	(\$32,567)	(\$29,747)	(\$26,499)	(\$23,459)	(\$20,845)	(\$18,945)	(\$17,780)	(\$16,678)	(\$15,621)	(\$14,538)	(\$13,268)	
44	Bk America Rate less 200 Basis Points		1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
45	Interest Applied		(\$31)	(\$32)	(\$32)	(\$25)	(\$21)	(\$20)	(\$18)	(\$18)	(\$15)	(\$17)	(\$15)	(\$271)	
46	Reconciliation End Balance		(\$33,892)	(\$31,278)	(\$28,247)	(\$24,776)	(\$22,166)	(\$19,546)	(\$18,365)	(\$17,214)	(\$16,159)	(\$15,100)	(\$13,990)	(\$12,561)	
47	Under/(over) Recovery		\$7,439	(\$2,614)	(\$3,030)	(\$3,472)	(\$2,609)	(\$2,621)	(\$1,181)	(\$1,151)	(\$1,055)	(\$1,059)	(\$1,109)	(\$1,430)	
48	On-system Credits Recon. Adjust. - DAC														
49	On-system Credit	Acct Beg. Balance	(\$490,762)	(\$451,479)	(\$392,533)	(\$313,192)	(\$231,377)	(\$156,762)	(\$99,852)	(\$70,035)	(\$52,922)	(\$38,349)	(\$24,409)	(\$9,327)	(\$490,762)
50	Actual On-system	Revenue	(\$39,767)	(\$59,394)	(\$79,715)	(\$82,076)	(\$74,821)	(\$57,042)	(\$29,907)	(\$17,176)	(\$14,621)	(\$13,974)	(\$15,099)	(\$18,656)	
51	Ending On-system	Balance	(\$450,995)	(\$392,085)	(\$312,818)	(\$231,116)	(\$156,586)	(\$99,720)	(\$69,945)	(\$52,859)	(\$38,301)	(\$24,375)	(\$9,310)	\$9,329	
52	Average Monthly Balance		(\$470,879)	(\$421,782)	(\$352,675)	(\$272,154)	(\$193,966)	(\$128,241)	(\$84,898)	(\$61,447)	(\$45,611)	(\$31,362)	(\$16,859)	\$1	
53	Bk America Rate less 200 Basis Points		1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
54	Interest Applied		(\$484)	(\$454)	(\$374)	(\$261)	(\$206)	(\$132)	(\$90)	(\$63)	(\$33)	(\$17)	\$0	(\$2,157)	
55	On-system Credit	End Balance	(\$451,479)	(\$392,533)	(\$313,192)	(\$231,377)	(\$156,762)	(\$99,852)	(\$70,035)	(\$52,922)	(\$38,349)	(\$24,409)	(\$9,327)	\$9,329	
	Under/(over) Recovery		\$39,283	\$58,946	\$79,341	\$81,815	\$74,615	\$56,910	\$29,817	\$17,113	\$14,573	\$13,941	\$15,082	\$18,656	

		Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	
		30	31	31	28	31	30	31	30	31	31	30	31	
		Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Forecast	Forecast	Forecast	Forecast	12 month End
	(a) (b)			(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	
57	Pension Adjustment													
58	Pen Acct Beg. Balance	\$1,761,242	\$1,624,246	\$1,403,125	\$1,105,526	\$798,654	\$518,773	\$305,287	\$193,400	\$129,155	\$74,433	\$22,081	(\$34,547)	\$1,761,242
59	Actual Pension Revenue	\$138,735	\$222,727	\$298,930	\$307,784	\$280,580	\$213,909	\$112,152	\$64,410	\$54,830	\$52,404	\$56,621	\$69,962	\$1,873,044
60	Ending Pension Balance	\$1,622,507	\$1,401,519	\$1,104,195	\$797,742	\$518,074	\$304,864	\$193,135	\$128,990	\$74,325	\$22,029	(\$34,540)	(\$104,509)	(\$1,111,802)
61	Average Monthly Balance	\$1,691,875	\$1,512,882	\$1,253,660	\$951,634	\$658,364	\$411,819	\$249,211	\$161,195	\$101,740	\$48,231	\$6,230	(\$69,528)	
62	Bk America Rate less 200 Basis Points	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
63	Interest Applied	\$1,738	\$1,606	\$1,331	\$913	\$699	\$423	\$265	\$166	\$108	\$51	(\$6)	(\$74)	\$7,219
64	Pension Adjustment End Balance	\$1,624,246	\$1,403,125	\$1,105,526	\$798,654	\$518,773	\$305,287	\$193,400	\$129,155	\$74,433	\$22,081	(\$34,547)	(\$104,583)	(\$104,583)
65	Under/(over) Recovery	(\$136,997)	(\$221,121)	(\$297,599)	(\$306,871)	(\$279,881)	(\$213,486)	(\$111,887)	(\$64,244)	(\$54,722)	(\$52,353)	(\$56,627)	(\$70,036)	
66	PBOP Adjustment													
67	PBOP Acct Beg. Balance													
68	Actual PBOP Revenue	(\$844,056)	(\$802,324)	(\$699,182)	(\$560,349)	(\$417,185)	(\$286,621)	(\$187,040)	(\$134,874)	(\$104,939)	(\$79,449)	(\$55,065)	(\$28,685)	(\$844,056)
69	Ending PBOP Balance	(\$42,577)	(\$103,939)	(\$139,501)	(\$143,633)	(\$130,937)	(\$99,824)	(\$52,337)	(\$30,058)	(\$25,588)	(\$24,455)	(\$26,423)	(\$32,649)	(\$851,921)
70	Average Monthly Balance	(\$801,479)	(\$698,385)	(\$559,681)	(\$416,716)	(\$286,248)	(\$186,797)	(\$134,703)	(\$104,816)	(\$79,351)	(\$54,994)	(\$28,642)	\$3,964	\$7,865
71	Bk America Rate less 200 Basis Points	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
72	Interest Applied	(\$845)	(\$797)	(\$668)	(\$468)	(\$373)	(\$243)	(\$171)	(\$123)	(\$98)	(\$71)	(\$43)	(\$13)	(\$3,914)
73	PBOP Adjustment End Balance	(\$802,324)	(\$699,182)	(\$560,349)	(\$417,185)	(\$286,621)	(\$187,040)	(\$134,874)	(\$104,939)	(\$79,449)	(\$55,065)	(\$28,685)	(\$3,951)	\$3,951
74	Under/(over) Recovery	\$41,732	\$103,142	\$138,833	\$143,165	\$130,564	\$99,581	\$52,166	\$29,935	\$25,490	\$24,384	\$26,380	\$32,636	

Column (a), Line 22, per Docket No. 4431, MCS-4 Ln15
Column (a), Line 31, per Docket No. 4431, MCS-7S, Page 1, Ln 12
Column (a), Line 40, per Docket No. 4431, MCS-7S, Page 1, Ln 25
Column (a), Line 49, per Docket No. 4431, DIV-2-7
Column (a), Line 58, per Docket No. 4431, MCS-5S, Ln 1+2
Column (a), Line 67, per Docket No. 4431, MCS-5S, Ln 6+7

National Grid - RI Gas
Base Rate / Fiscal Year Reconciling Components

Line No.	Source	Base Rate / Fiscal Year Reconciling Components												12 month End		
		Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual
1	DAC FACTORS: S(dth)															
2	AGT Factor - Base Rates	\$0.0084	\$0.0084	\$0.0084	\$0.0084	\$0.0084	\$0.0084	\$0.0084	\$0.0084	\$0.0084	\$0.0084	\$0.0084	\$0.0084	\$0.0084	\$0.0084	\$0.0084
3	LIAP Factor - Base Rates	\$0.0500	\$0.0500	\$0.0500	\$0.0500	\$0.0500	\$0.0500	\$0.0500	\$0.0500	\$0.0500	\$0.0500	\$0.0500	\$0.0500	\$0.0500	\$0.0500	\$0.0500
4	Environmental - Base Rates	\$0.0367	\$0.0367	\$0.0367	\$0.0367	\$0.0367	\$0.0367	\$0.0367	\$0.0367	\$0.0367	\$0.0367	\$0.0367	\$0.0367	\$0.0367	\$0.0367	\$0.0367
5	RI Firm Forecasted Throughput (dth) Feb 13 - Jan 14 (Rate Year)	3,826,443	2,321,424	1,504,558	1,230,159	1,063,069	1,175,941	1,391,267	2,407,560	4,054,661	5,577,080	5,765,550	5,359,362	35,678,072		
6	RI Firm L-XL Forecasted Throughput (dth)	992,288	720,015	553,276	530,577	477,149	548,615	587,911	770,135	1,063,665	1,163,568	1,264,681	1,195,353	9,867,232		
7	Actual RI Firm L-XL Firm through-put (dth)	1,348,760	479,260	387,588	565,000	513,786	571,426	570,866	843,671	1,311,154	1,530,660	1,748,373	1,317,312	11,187,856		
8	Revenue Variance	\$11,341	\$4,030	\$3,259	\$4,751	\$4,520	\$4,805	\$7,094	\$12,871	\$14,701	\$11,077	\$94,074				
9	Ending Balance	(\$2,997)	\$2,023	(\$975)	(\$290)	(\$180)	(\$192)	(\$143)	(\$847)	(\$2,929)	(\$6,017)	(\$10,087)	(\$11,106)			
10	Average Balance	(\$1,499)	(\$487)	\$209	\$64	(\$90)	(\$186)	(\$115)	(\$424)	(\$1,464)	(\$5,009)	(\$5,044)	(\$5,559)			
11	Bk America Rate less 200 Basis Points	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%			
12	Interest Applied	(\$2)	(\$1)	\$0	\$0	(\$80)	(\$50)	(\$29)	(\$848)	(\$2,930)	(\$6,020)	(\$10,092)	(\$11,124)			
13	AGT End Balance	(\$2,999)	(\$975)	\$418	(\$128)	(\$372)	(\$229)	(\$848)	(\$2,930)	(\$6,020)	(\$10,092)	(\$11,124)				
14	Under/(over) Recovery	(\$2,999)	\$2,023	\$1,393	(\$290)	(\$308)	(\$192)	\$143	(\$618)	(\$2,083)	(\$3,090)	(\$4,072)	(\$1,032)			

AGT Recon. Adjustment - Base Rates L-XL

6	AGT Recon. Acct Beg. Bal.	\$0	(\$2,999)	(\$975)	\$418	\$128	(\$180)	(\$372)	(\$229)	(\$848)	(\$2,930)	(\$6,020)	(\$10,092)	\$0		\$82,968
7	Fst Firm Through-put L-XL	992,288	720,015	553,276	530,577	477,149	548,615	587,911	770,135	1,063,665	1,163,568	1,264,681	1,195,353	9,867,232		
8	Fst L-XL AGT Revenues	\$8,344	\$6,054	\$4,652	\$4,461	\$4,012	\$4,613	\$4,943	\$6,476	\$8,944	\$9,784	\$10,634	\$10,051	\$82,968		
9	Actual Firm Through-put L-XL	1,348,760	479,260	387,588	565,000	513,786	571,426	570,866	843,671	1,311,154	1,530,660	1,748,373	1,317,312	11,187,856		
10	Actual AGT Revenues	\$11,341	\$4,030	\$3,259	\$4,751	\$4,520	\$4,805	\$7,094	\$12,871	\$14,701	\$11,077	\$94,074				
11	Revenue Variance	(\$2,997)	\$2,023	(\$975)	(\$290)	(\$180)	(\$192)	(\$143)	(\$847)	(\$2,929)	(\$6,017)	(\$10,087)	(\$11,106)			
12	Ending Balance	(\$2,997)	\$2,023	(\$975)	(\$290)	(\$180)	(\$192)	(\$143)	(\$847)	(\$2,929)	(\$6,017)	(\$10,087)	(\$11,106)			
13	Average Balance	(\$1,499)	(\$487)	\$209	\$64	(\$90)	(\$186)	(\$115)	(\$424)	(\$1,464)	(\$5,009)	(\$5,044)	(\$5,559)			
14	Bk America Rate less 200 Basis Points	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%			
15	Interest Applied	(\$2)	(\$1)	\$0	\$0	(\$80)	(\$50)	(\$29)	(\$848)	(\$2,930)	(\$6,020)	(\$10,092)	(\$11,124)			
16	AGT End Balance	(\$2,999)	(\$975)	\$418	(\$128)	(\$372)	(\$229)	(\$848)	(\$2,930)	(\$6,020)	(\$10,092)	(\$11,124)				
17	Under/(over) Recovery	(\$2,999)	\$2,023	\$1,393	(\$290)	(\$308)	(\$192)	\$143	(\$618)	(\$2,083)	(\$3,090)	(\$4,072)	(\$1,032)			

LIAP Recon. Adjustment - Base Rates L-XL

18	LIAP Recon. Acct Beg. Bal.	\$0	(\$17,844)	(\$5,812)	\$2,476	\$755	(\$1,078)	(\$2,221)	(\$1,369)	(\$5,052)	(\$17,446)	(\$35,840)	(\$60,086)	\$0		\$493,665
19	Fst Firm Through-put L-XL	992,288	720,015	553,276	530,577	477,149	548,615	587,911	770,135	1,063,665	1,163,568	1,264,681	1,195,353	9,867,232		
20	Fst LIAP Revenues	\$49,645	\$36,023	\$27,681	\$26,545	\$23,872	\$27,448	\$29,414	\$38,530	\$53,216	\$58,214	\$63,273	\$59,804	\$493,665		
21	Actual Firm Through-put L-XL	1,348,760	479,260	387,588	565,000	513,786	571,426	570,866	843,671	1,311,154	1,530,660	1,748,373	1,317,312	11,187,856		
22	Actual LIAP Revenues No EE	\$59,919	\$21,291	\$17,219	\$25,100	\$22,825	\$25,386	\$25,361	\$37,480	\$58,248	\$68,000	\$77,672	\$58,522	\$497,023		
23	Actual LIAP Revenues EE Only	\$7,561	\$2,687	\$2,173	\$3,167	\$2,880	\$3,203	\$3,200	\$4,729	\$7,350	\$8,580	\$9,801	\$7,384	\$62,715		
24	Revenue Variance	(\$17,835)	\$12,045	\$8,289	(\$1,722)	(\$1,833)	(\$1,141)	\$853	(\$3,679)	(\$12,382)	(\$18,366)	(\$24,200)	(\$6,102)	(\$66,073)		
25	Ending Balance	(\$17,835)	(\$5,799)	\$2,477	\$754	(\$1,078)	(\$2,219)	(\$1,368)	(\$5,048)	(\$17,434)	(\$35,812)	(\$60,040)	(\$66,188)			
26	Average Balance	(\$8,918)	(\$1,822)	(\$1,667)	\$1,615	(\$1,61)	(\$1,648)	(\$1,794)	(\$3,209)	(\$11,243)	(\$26,629)	(\$47,940)	(\$63,137)	(\$66,073)		
27	Bk America Rate less 200 Basis Points	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%			
28	Interest Applied	(\$9)	(\$13)	(\$2)	\$2	(\$80)	(\$2)	(\$2)	(\$3)	(\$12)	(\$28)	(\$46)	(\$67)	(\$182)		
29	LIAP End Balance	(\$17,844)	(\$5,812)	\$2,476	\$755	(\$1,078)	(\$2,221)	(\$1,369)	(\$5,052)	(\$17,446)	(\$35,840)	(\$60,086)	(\$66,255)			
30	Under/(over) Recovery	(\$17,844)	\$12,032	\$8,287	(\$1,720)	(\$1,833)	(\$1,143)	\$851	(\$3,682)	(\$12,394)	(\$18,394)	(\$24,246)	(\$6,169)			

Environmental Recon. Adjust - Base Rates L-XL

30	Environmental Recon. Acct Beg. Bal.	\$0	(\$13,096)	(\$4,265)	\$1,818	\$555	(\$790)	(\$1,628)	(\$1,005)	(\$3,707)	(\$12,803)	(\$26,303)	(\$44,095)	\$0		\$362,298
31	Fst Firm Through-put L-XL	992,288	720,015	553,276	530,577	477,149	548,615	587,911	770,135	1,063,665	1,163,568	1,264,681	1,195,353	9,867,232		
32	Fst Environmental Revenues	\$36,434	\$26,437	\$20,315	\$19,481	\$17,520	\$20,144	\$21,586	\$28,277	\$39,055	\$42,723	\$46,436	\$43,890	\$362,298		
33	Actual Firm Through-put L-XL	1,348,760	479,260	387,588	565,000	513,786	571,426	570,866	843,671	1,311,154	1,530,660	1,748,373	1,317,312	11,187,856		
34	Actual Environmental Revenues	\$49,523	\$17,597	\$14,231	\$20,745	\$18,865	\$20,981	\$20,961	\$30,977	\$48,142	\$56,202	\$64,195	\$48,368	\$410,787		
35	Revenue Variance	(\$13,089)	\$8,840	\$6,084	(\$1,264)	(\$1,345)	(\$837)	\$625	(\$2,700)	(\$9,087)	(\$13,479)	(\$17,759)	(\$4,478)	(\$48,489)		
36	Ending Environmental Balance	(\$13,089)	(\$4,256)	\$1,819	\$554	(\$790)	(\$1,627)	(\$1,003)	(\$3,705)	(\$12,794)	(\$26,282)	(\$44,062)	(\$48,573)			
37	Average Balance	(\$6,545)	(\$2,128)	(\$1,223)	\$1,186	(\$1,17)	(\$1,209)	(\$1,316)	(\$2,355)	(\$8,251)	(\$19,542)	(\$35,182)	(\$46,334)	(\$48,489)		
38	Bk America Rate less 200 Basis Points	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%			
39	Interest Applied	(\$7)	(\$9)	(\$1)	\$1	(\$80)	(\$1)	(\$1)	(\$2)	(\$9)	(\$21)	(\$34)	(\$49)	(\$134)		
40	Environmental End Balance	(\$13,096)	(\$4,265)	\$1,818	\$555	(\$790)	(\$1,628)	(\$1,005)	(\$3,707)	(\$12,803)	(\$26,303)	(\$44,095)	(\$48,623)			
41	Under/(over) Recovery	(\$13,096)	\$8,831	\$6,083	(\$1,263)	(\$1,345)	(\$838)	\$624	(\$2,702)	(\$9,096)	(\$13,500)	(\$17,793)	(\$4,527)			

**National Grid - RI Gas
RDA Reconciliation and RDA Reconciliation Adjustment**

Line No.		Nov-13 30	Dec-13 31	Jan-14 31	Feb-14 28	Mar-14 31	Apr-14 30	May-14 31	Jun-14 30	Jul-14 31	Aug-14 31	Sep-14 30	Oct-14 31	Total
	Actual (a)		Actual (b)	Actual (c)	Actual (d)	Actual (e)	Actual (f)	Actual (g)	Actual (h)	Forecast (i)	Forecast (j)	Forecast (k)	Forecast (l)	
1	Res-NH, Res-H, Small, Medium RDM Recon Rates S/deatherm	\$0.3452	\$0.2829	\$0.2801	\$0.2800	\$0.2799	\$0.2804	\$0.2908	\$0.2801	\$0.2800	\$0.2800	\$0.2800	\$0.2800	944,725
2	RDM Recon Adj Rates S/deatherm	\$0.0133	\$0.0263	\$0.0260	\$0.0260	\$0.0260	\$0.0260	\$0.0270	\$0.0260	\$0.0260	\$0.0260	\$0.0260	\$0.0260	19,663,509
	Prorated													2,742,247
3	Actual Firm Throughput - deatherm	55,340	108,460	148,680	148,361	145,157	107,772	68,329	38,675	31,123	28,396	28,939	35,495	5,872,517
4	Res-NH	1,069,380	2,438,809	3,466,384	3,435,123	3,334,439	2,333,347	1,231,716	571,467	437,527	393,560	433,919	517,838	29,222,997
5	Small	115,595	324,268	517,511	521,961	496,004	313,467	141,840	58,923	60,020	57,753	67,751	67,154	944,725
6	Medium	339,084	715,690	978,145	985,947	945,350	673,391	379,559	177,424	153,309	146,809	165,423	212,386	19,663,509
7	Total	1,579,400	3,587,227	5,110,718	5,091,392	4,920,949	3,427,977	1,821,444	846,489	681,979	626,518	696,032	832,873	2,742,247
8	RDM Recon Beg. Balance	\$7,560,395	\$7,022,667	\$6,014,681	\$4,588,980	\$3,167,132	\$1,792,593	\$832,905	\$303,763	\$66,881	(\$124,103)	(\$299,753)	(\$495,051)	5,872,517
9	Actual RDM Revenue	\$545,216	\$1,014,903	\$1,431,326	\$1,425,566	\$1,377,170	\$961,036	\$529,745	\$237,073	\$190,954	\$175,425	\$194,889	\$233,204	29,222,997
10	Ending RDM Balance	\$7,015,179	\$6,007,764	\$4,583,355	\$3,163,415	\$1,789,962	\$831,557	\$303,160	\$66,691	(\$124,073)	(\$299,529)	(\$494,642)	(\$728,255)	\$7,490,077
11	Average Monthly Balance	\$7,287,787	\$6,515,215	\$5,299,018	\$3,876,198	\$2,478,547	\$1,312,075	\$568,033	\$185,227	(\$28,596)	(\$211,816)	(\$397,198)	(\$611,653)	\$8,316,506
12	Bk America Rate less 200 Basis Points	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	(\$826,430)
13	Interest Applied	\$7,487	\$6,917	\$5,626	\$3,717	\$2,631	\$1,348	\$603	\$190	(\$30)	(\$225)	(\$408)	(\$649)	\$97,526
14	RDM Recon End Balance	\$7,022,667	\$6,014,681	\$4,588,980	\$3,167,132	\$1,792,593	\$832,905	\$303,763	\$66,881	(\$124,103)	(\$299,753)	(\$495,051)	(\$728,255)	\$97,526
15	Under/(over) Recovery	(\$537,729)	(\$1,007,986)	(\$1,425,700)	(\$1,421,849)	(\$1,374,538)	(\$959,688)	(\$529,142)	(\$236,882)	(\$190,984)	(\$175,650)	(\$195,297)	(\$233,854)	(\$728,904)
16	RDM Revenue per rate class													
17	Res-NH	\$19,104	\$30,686	\$41,640	\$41,540	\$40,623	\$30,214	\$19,873	\$10,832	\$8,714	\$7,951	\$8,103	\$9,939	\$269,217
18	Res-H	\$369,155	\$689,991	\$970,808	\$961,818	\$933,171	\$654,156	\$358,230	\$160,048	\$122,508	\$110,197	\$121,497	\$144,995	\$5,596,573
19	Small	\$39,904	\$91,742	\$144,936	\$146,147	\$138,811	\$87,881	\$41,252	\$16,502	\$16,806	\$16,171	\$18,970	\$18,803	\$777,925
20	Medium	\$117,053	\$202,484	\$273,943	\$276,061	\$264,364	\$188,786	\$110,390	\$49,690	\$42,927	\$41,107	\$46,318	\$59,468	\$1,672,791
21	Total	\$545,216	\$1,014,903	\$1,431,326	\$1,425,566	\$1,377,170	\$961,036	\$529,745	\$237,073	\$190,954	\$175,425	\$194,889	\$233,204	\$8,316,506
22	RDM Recon Adjustment													
23	RDM Recon Act Beg. Balance	\$705,936	\$685,705	\$592,142	\$459,791	\$327,795	\$200,195	\$111,116	\$62,016	\$40,055	\$22,356	\$6,082	(\$12,018)	\$705,936
24	Actual RDM Recon Revenue	\$20,945	\$94,241	\$132,909	\$132,374	\$127,880	\$89,239	\$49,191	\$22,014	\$17,731	\$16,289	\$18,097	\$21,655	\$742,566
25	Ending RDM Recon Balance	\$684,991	\$591,464	\$459,233	\$327,417	\$199,914	\$110,956	\$61,925	\$40,002	\$22,323	\$6,067	(\$12,015)	(\$33,673)	\$705,936
26	Average Monthly Balance	\$695,463	\$638,585	\$525,688	\$393,604	\$263,855	\$155,575	\$86,520	\$51,009	\$31,189	\$14,212	(\$2,966)	(\$22,845)	(\$36,630)
27	Bk America Rate less 200 Basis Points	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	\$2,933
28	Interest Applied	\$715	\$678	\$558	\$377	\$280	\$160	\$92	\$52	\$33	\$15	(\$3)	(\$24)	\$2,933
29	RDM Recon Adjustment End Balance	\$685,705	\$592,142	\$459,791	\$327,795	\$200,195	\$111,116	\$62,016	\$40,055	\$22,356	\$6,082	(\$12,018)	(\$33,697)	(\$36,630)
30	Under/(over) Recovery	(\$20,231)	(\$93,563)	(\$132,351)	(\$131,996)	(\$127,600)	(\$89,079)	(\$49,099)	(\$21,962)	(\$17,698)	(\$16,274)	(\$18,100)	(\$21,679)	(\$36,630)
31	RDM Recon and Recon Adj End Balance												(\$762,601)	

1&2 RDM rates account for cancel, rebills, proration adjustments

- 7 Sum ((3)-(6))
8 (a) Beginning balance, Docket 4431, 2013 DAC + Interest calculated from February - October
17 [1] * [3]
18 [1] * [4]
19 [1] * [5]
20 [1] * [6]
21 Sum([17]([20]))
23 (a) Beginning balance, Docket 4431, MCS-7S, Pages 6
24 [2] * [7]
31 [14] + [29]

National Grid - RI Gas
ISR Reconciliation for FY 13

Line No.		Nov-13 30	Dec-13 31	Jan-14 31	Feb-14 28	Mar-14 31	Apr-14 30	May-14 31	Jun-14 30	Jul-14 31	Aug-14 31	Sep-14 30	Oct-14 31	Total
		Actual (a)	Actual (b)	Actual (c)	Actual (d)	Actual (e)	Actual (f)	Actual (g)	Actual (h)	Forecast (i)	Forecast (j)	Forecast (k)	Forecast (l)	
ISR Recon Rates S/decaetherm														
1	Res-NH	(\$0.0999)	(\$0.2435)	(\$0.2411)	(\$0.2410)	(\$0.2409)	(\$0.2413)	(\$0.2503)	(\$0.2411)	(\$0.2410)	(\$0.2410)	(\$0.2410)	(\$0.2410)	
2	Res-H	\$0.0083	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	
3	Small	\$0.0126	\$0.0162	\$0.0160	\$0.0160	\$0.0160	\$0.0160	\$0.0166	\$0.0160	\$0.0160	\$0.0160	\$0.0160	\$0.0160	
4	Medium	\$0.0076	\$0.0101	\$0.0100	\$0.0100	\$0.0100	\$0.0100	\$0.0104	\$0.0100	\$0.0100	\$0.0100	\$0.0100	\$0.0100	
5	Large LL	\$0.0034	\$0.0010	\$0.0010	\$0.0010	\$0.0010	\$0.0010	\$0.0010	\$0.0010	\$0.0010	\$0.0010	\$0.0010	\$0.0010	
6	Large HL	\$0.0141	\$0.0202	\$0.0200	\$0.0200	\$0.0200	\$0.0200	\$0.0208	\$0.0200	\$0.0200	\$0.0200	\$0.0200	\$0.0200	
7	XL-LL	(\$0.0076)	(\$0.0141)	(\$0.0140)	(\$0.0140)	(\$0.0140)	(\$0.0140)	(\$0.0145)	(\$0.0143)	(\$0.0143)	(\$0.0143)	(\$0.0143)	(\$0.0143)	
8	XL-HL	(\$0.0020)	(\$0.0020)	(\$0.0020)	(\$0.0020)	(\$0.0020)	(\$0.0020)	(\$0.0021)	(\$0.0020)	(\$0.0020)	(\$0.0020)	(\$0.0020)	(\$0.0020)	
Actual Firm Throughput - decaetherm														
9	Res-NH	55,340	108,460	148,680	148,361	145,157	107,772	68,329	38,675	31,123	28,396	28,939	35,495	944,725
10	Res-H	1,069,380	2,438,809	3,466,384	3,435,123	3,334,439	2,333,347	1,231,716	571,467	437,527	393,560	433,919	517,838	19,663,509
11	Small	115,595	324,268	517,511	521,961	496,004	313,467	141,840	58,923	60,020	57,753	67,751	67,154	2,742,247
12	Medium	339,084	715,690	978,145	985,947	945,350	673,391	379,559	177,424	153,309	146,809	165,423	212,386	5,872,517
13	Large LL	197,162	431,569	559,172	595,716	506,522	416,781	139,433	31,721	38,455	33,553	47,110	106,920	3,104,392
14	Large HL	101,997	101,893	109,799	211,968	120,561	88,497	87,495	78,183	64,726	67,975	81,772	75,653	1,190,518
15	XL-LL	106,115	238,139	242,187	250,714	181,749	191,500	37,882	1,542	13,411	13,105	21,219	80,389	1,377,952
16	XL-HL	438,397	539,552	619,503	689,975	508,480	622,813	313,151	473,070	419,902	423,083	412,107	458,867	5,918,900
17	Total	2,423,071	4,898,381	6,641,379	6,839,764	6,238,261	4,747,568	2,399,405	1,431,004	1,218,453	1,164,534	1,258,241	1,554,701	40,814,761
sum([9]:[16])														
18	ISR Res-NH Act Beg. Balance	(\$169,526)	(\$170,561)	(\$144,317)	(\$108,611)	(\$72,943)	(\$38,037)	(\$12,057)	\$5,044	\$14,377	\$21,897	\$28,767	\$35,774	(\$168,289)
19	FY 2012 Recon	(\$6,388)	(\$26,412)	(\$35,840)	(\$37,754)	(\$34,965)	(\$26,006)	(\$17,104)	(\$9,323)	(\$7,501)	(\$6,843)	(\$6,974)	(\$8,554)	(\$6,388)
20	Actual Res-H Revenue	(\$5,528)	(\$144,150)	(\$108,476)	(\$77,856)	(\$37,978)	(\$12,031)	\$5,047	\$14,367	\$21,877	\$28,740	\$35,741	\$44,329	(\$220,805)
21	Ending Res-NH Balance	(\$170,387)	(\$170,387)	(\$170,387)	(\$170,387)	(\$170,387)	(\$170,387)	(\$170,387)	(\$170,387)	(\$170,387)	(\$170,387)	(\$170,387)	(\$170,387)	\$46,128
22	Average Monthly Balance	(\$169,956)	(\$170,387)	(\$170,387)	(\$170,387)	(\$170,387)	(\$170,387)	(\$170,387)	(\$170,387)	(\$170,387)	(\$170,387)	(\$170,387)	(\$170,387)	
23	Bk America Rate less 200 Basis Points	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
24	Interest Applied	(\$175)	(\$167)	(\$134)	(\$87)	(\$59)	(\$26)	(\$4)	\$10	\$19	\$27	\$33	\$43	(\$1,757)
25	ISR Res-NH Recon End Balance	(\$170,561)	(\$144,317)	(\$108,611)	(\$72,943)	(\$38,037)	(\$12,057)	\$5,044	\$14,377	\$21,897	\$28,767	\$35,774	\$44,371	\$44,371
26	Under/(over) Recovery	(\$1,035)	\$26,245	\$35,706	\$35,667	\$34,906	\$25,980	\$17,101	\$9,333	\$7,520	\$6,870	\$7,007	\$8,597	
27	ISR Res-H Act Beg. Balance	(\$43,213)	(\$25,089)	(\$25,116)	(\$25,143)	(\$25,167)	(\$25,193)	(\$25,219)	(\$25,246)	(\$25,272)	(\$25,299)	(\$25,326)	(\$25,352)	(\$42,898)
28	FY 2012 Recon	\$27,068	(\$25,089)	(\$25,116)	(\$25,143)	(\$25,167)	(\$25,193)	(\$25,219)	(\$25,246)	(\$25,272)	(\$25,299)	(\$25,326)	(\$25,352)	\$27,068
29	Actual Res-H Revenue	\$8,909	(\$25,089)	(\$25,116)	(\$25,143)	(\$25,167)	(\$25,193)	(\$25,219)	(\$25,246)	(\$25,272)	(\$25,299)	(\$25,326)	(\$25,352)	\$8,909
30	Ending Res-H Balance	(\$25,054)	(\$25,089)	(\$25,116)	(\$25,143)	(\$25,167)	(\$25,193)	(\$25,219)	(\$25,246)	(\$25,272)	(\$25,299)	(\$25,326)	(\$25,352)	(\$24,739)
31	Average Monthly Balance	(\$34,134)	(\$25,089)	(\$25,116)	(\$25,143)	(\$25,167)	(\$25,193)	(\$25,219)	(\$25,246)	(\$25,272)	(\$25,299)	(\$25,326)	(\$25,352)	
32	Bk America Rate less 200 Basis Points	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
33	Interest Applied	(\$35)	(\$27)	(\$27)	(\$24)	(\$27)	(\$26)	(\$27)	(\$26)	(\$27)	(\$27)	(\$26)	(\$27)	(\$640)
34	ISR Res-H Recon End Balance	(\$25,089)	(\$25,116)	(\$25,143)	(\$25,167)	(\$25,193)	(\$25,219)	(\$25,246)	(\$25,272)	(\$25,299)	(\$25,326)	(\$25,352)	(\$25,379)	(\$25,379)
35	Under/(over) Recovery	\$18,124	(\$27)	(\$27)	(\$24)	(\$27)	(\$26)	(\$27)	(\$26)	(\$27)	(\$27)	(\$26)	(\$27)	
36	ISR Small C&I Act Beg. Balance	\$39,253	\$38,559	\$33,355	\$25,104	\$16,774	\$8,855	\$3,840	\$1,486	\$544	-\$416	-\$1,341	-\$2,427	\$38,967
37	FY 2012 Recon	\$719	\$5,242	\$8,282	\$8,351	\$7,932	\$5,021	\$2,357	\$943	\$960	\$924	\$1,084	\$1,074	\$719
38	Actual Small C&I Revenue	\$1,453	\$38,517	\$25,073	\$16,754	\$8,842	\$3,834	\$1,484	\$543	-\$416	-\$1,340	-\$2,425	-\$3,501	\$43,624
39	Ending Small C&I Balance	\$38,519	\$33,317	\$29,214	\$20,929	\$12,808	\$6,345	\$2,662	\$1,015	\$64	-\$878	-\$1,883	-\$2,964	(\$3,938)
40	Average Monthly Balance	\$38,886	\$35,938	\$29,214	\$20,929	\$12,808	\$6,345	\$2,662	\$1,015	\$64	-\$878	-\$1,883	-\$2,964	
41	Bk America Rate less 200 Basis Points	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
42	Interest Applied	\$40	\$38	\$31	\$20	\$14	\$7	\$3	\$1	\$0	-\$1	-\$2	-\$3	\$434
43	ISR Small C&I Recon End Balance	\$38,559	\$33,355	\$25,104	\$16,774	\$8,855	\$3,840	\$1,486	\$544	-\$416	-\$1,341	-\$2,427	(\$3,504)	(\$3,504)
44	Under/(over) Recovery	(\$694)	(\$5,204)	(\$8,251)	(\$8,331)	(\$7,918)	(\$5,015)	(\$2,354)	(\$942)	(\$960)	(\$925)	(\$1,086)	(\$1,078)	

National Grid - RI Gas
ISR Reconciliation for FY 13

Line No.		Nov-13 Actual (a)	Dec-13 Actual (b)	Jan-14 Actual (c)	Feb-14 Actual (d)	Mar-14 Actual (e)	Apr-14 Actual (f)	May-14 Actual (g)	Jun-14 Actual (h)	Jul-14 Forecast (i)	Aug-14 Forecast (j)	Sep-14 Forecast (k)	Oct-14 Forecast (l)	Total
ISR Recon Rates S/decahtherm														
45	ISR Medium Acct Beg. Balance	\$53,737	\$53,871	\$46,693	\$36,954	\$27,126	\$17,701	\$10,974	\$7,040	\$5,272	\$3,744	\$2,279	\$626	\$53,345
46	FY 2012 Recon	\$2,639												\$2,639
47	Actual Large LL Revenue	\$2,560	\$7,232	\$9,783	\$9,859	\$9,448	\$6,742	\$3,943	\$1,774	\$1,533	\$1,468	\$1,654	\$2,124	\$58,121
48	Ending Medium Balance	\$53,816	\$46,640	\$36,910	\$27,095	\$17,678	\$10,959	\$7,031	\$5,266	\$3,739	\$2,276	\$625	-\$1,498	(\$2,137)
49	Average Monthly Balance	\$53,777	\$50,255	\$41,801	\$32,025	\$22,402	\$14,330	\$9,002	\$6,153	\$4,506	\$3,010	\$1,452	-\$456	
50	Bk America Rate less 200 Basis Points	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
51	Interest Applied	\$55	\$53	\$44	\$31	\$24	\$15	\$10	\$6	\$5	\$3	\$1	\$0	\$639
52	ISR Medium Recon End Balance	\$53,871	\$46,693	\$36,954	\$27,126	\$17,701	\$10,974	\$7,040	\$5,272	\$3,744	\$2,279	\$626	(\$1,498)	(\$1,498)
53	Under/(over) Recovery	\$134	(\$7,178)	(\$9,739)	(\$9,828)	(\$9,424)	(\$6,728)	(\$3,933)	(\$1,768)	(\$1,528)	(\$1,465)	(\$1,653)	(\$2,124)	
54	ISR Large LL Acct Beg. Balance	\$3,872	\$3,387	\$2,954	\$2,397	\$1,804	\$1,298	\$882	\$738	\$707	\$670	\$636	\$590	\$3,844
55	FY 2012 Recon	\$191												\$191
56	Actual Large LL Revenue	\$680	\$437	\$559	\$596	\$507	\$418	\$144	\$32	\$38	\$34	\$47	\$107	\$3,599
57	Ending Large LL Balance	\$3,383	\$2,950	\$2,395	\$1,801	\$1,297	\$881	\$738	\$706	\$688	\$636	\$589	\$483	\$436
58	Average Monthly Balance	\$3,628	\$3,169	\$2,674	\$2,099	\$1,550	\$1,090	\$810	\$722	\$688	\$653	\$613	\$556	
59	Bk America Rate less 200 Basis Points	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
60	Interest applied A	\$4	\$3	\$3	\$2	\$2	\$1	\$1	\$1	\$1	\$1	\$1	\$1	\$47
61	ISR Large LL Recon End Balance	\$3,387	\$2,954	\$2,397	\$1,804	\$1,298	\$882	\$738	\$707	\$670	\$636	\$590	\$484	\$484
62	Under/(over) Recovery	(\$485)	(\$433)	(\$556)	(\$594)	(\$505)	(\$416)	(\$144)	(\$31)	(\$38)	(\$33)	(\$46)	(\$106)	
63	ISR Large HL Acct Beg. Balance	\$24,777	\$22,935	\$20,899	\$18,724	\$14,501	\$12,105	\$10,344	\$8,537	\$6,980	\$5,692	\$4,338	\$2,706	\$24,596
64	FY 2012 Recon	\$1,440												(\$426)
65	Actual HL Revenue	\$22,911	\$20,699	\$18,703	\$14,485	\$12,091	\$10,333	\$8,527	\$6,972	\$5,686	\$4,333	\$3,135	\$1,513	\$23,301
66	Ending HL Balance	\$23,844	\$21,906	\$19,801	\$16,604	\$13,296	\$11,219	\$9,435	\$7,754	\$6,331	\$5,013	\$3,521	\$1,950	\$869
67	Average Monthly Balance	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
68	Bk America Rate less 200 Basis Points	\$24	\$23	\$21	\$16	\$14	\$12	\$10	\$8	\$7	\$5	\$4	\$2	\$327
69	Interest Applied	\$22,935	\$20,899	\$18,724	\$14,501	\$12,105	\$10,344	\$8,537	\$6,980	\$5,692	\$4,338	\$2,706	\$1,195	\$1,195
70	ISR Large HL Recon End Balance													
71	Under/(over) Recovery	(\$1,842)	(\$2,036)	(\$2,175)	(\$4,223)	(\$2,396)	(\$1,761)	(\$1,808)	(\$1,556)	(\$1,288)	(\$1,354)	(\$1,632)	(\$1,511)	
72	ISR XL LL Acct Beg. Balance													
73	FY 2012 Recon	(\$360)												(\$360)
74	Actual XL LL Revenue	(\$810)	(\$3,369)	(\$3,392)	(\$3,510)	(\$2,543)	(\$2,684)	(\$551)	(\$22)	(\$188)	(\$183)	(\$297)	(\$1,125)	(\$18,674)
75	Ending XL LL Balance	(\$22,384)	(\$19,038)	(\$15,668)	(\$12,177)	(\$9,647)	(\$6,975)	(\$6,433)	(\$6,418)	(\$6,237)	(\$6,060)	(\$5,769)	(\$4,650)	(\$4,353)
76	Average Monthly Balance	(\$22,609)	(\$20,722)	(\$17,364)	(\$13,932)	(\$10,919)	(\$8,317)	(\$6,708)	(\$6,429)	(\$6,330)	(\$6,152)	(\$5,918)	(\$5,213)	
77	Bk America Rate less 200 Basis Points	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
78	Interest Applied	(\$23)	(\$22)	(\$18)	(\$13)	(\$12)	(\$9)	(\$7)	(\$7)	(\$7)	(\$7)	(\$6)	(\$6)	(\$302)
79	ISR XL LL Recon End Balance	(\$22,407)	(\$19,060)	(\$15,687)	(\$12,190)	(\$9,659)	(\$6,983)	(\$6,440)	(\$6,424)	(\$6,243)	(\$6,066)	(\$5,775)	(\$4,655)	(\$4,655)
80	Under/(over) Recovery	\$427	\$3,347	\$3,373	\$3,497	\$2,531	\$2,676	\$543	\$15	\$181	\$177	\$291	\$1,120	
81	ISR XL HL Acct Beg. Balance	(\$15,204)	(\$12,676)	(\$11,599)	(\$10,371)	(\$9,000)	(\$7,993)	(\$6,753)	(\$6,110)	(\$5,169)	(\$4,334)	(\$3,492)	(\$2,671)	(\$15,093)
82	FY 2012 Recon	\$1,665												\$1,665
83	Actual XL HL Revenue	(\$877)	(\$1,090)	(\$1,259)	(\$1,380)	(\$1,016)	(\$1,248)	(\$650)	(\$946)	(\$840)	(\$846)	(\$824)	(\$918)	(\$1,875)
84	Ending XL HL Balance	(\$12,662)	(\$11,586)	(\$10,360)	(\$8,991)	(\$7,984)	(\$6,745)	(\$6,103)	(\$5,163)	(\$4,329)	(\$3,488)	(\$2,668)	(\$1,754)	(\$1,553)
85	Average Monthly Balance	(\$13,933)	(\$12,131)	(\$10,979)	(\$9,681)	(\$8,492)	(\$7,369)	(\$6,428)	(\$5,637)	(\$4,749)	(\$3,911)	(\$3,080)	(\$2,212)	
86	Bk America Rate less 200 Basis Points	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
87	Interest Applied	(\$14)	(\$13)	(\$12)	(\$9)	(\$9)	(\$8)	(\$7)	(\$6)	(\$5)	(\$4)	(\$3)	(\$2)	(\$203)
88	ISR XL HL Recon End Balance	(\$12,676)	(\$11,599)	(\$10,371)	(\$9,000)	(\$7,993)	(\$6,753)	(\$6,110)	(\$5,169)	(\$4,334)	(\$3,492)	(\$2,671)	(\$1,756)	(\$1,756)
89	Under/(over) Recovery	\$2,528	\$1,077	\$1,228	\$1,371	\$1,007	\$1,240	\$643	\$940	\$835	\$842	\$821	\$915	
Approved Amount to be Recovered¹ Under/ (Over) Recovery														(\$128,195) \$9,258

¹Docket No. 4431, MCS-9, Page 1 of 2, Line (10), Column (d) - Column (e)

National Grid - RI Gas
Non-Base Rate / Gas Year Reconciling Components

October 31, 2013 Ending Deferred Balances

<u>Line No.</u>		<u>Actual</u>	<u>Forecast₁</u>	<u>Difference</u>
		(a)	(b)	(c) = (a) - (b)
1	System Pressure	\$1,218,433	\$843,107	\$375,326
2	Environmental - DAC	(\$18,369)	(\$16,759)	(\$1,610)
3	Previous Reconciliation Factor	\$31,782	\$30,805	\$976
4	On-System Margin Credits	\$18,020	\$19,799	(\$1,779)
5	Pension	(\$9,865)	(\$15,797)	\$5,932
6	PBOP	(\$91,827)	(\$90,640)	(\$1,188)
7	Capital Tracker/ARP	\$714,288	\$714,288	\$0
8	SQ	\$2,707	\$3,047	(\$340)
9	RDM	\$755,479	\$705,936	\$49,543
10	ISR Recon	\$26,074	\$25,108	\$966
11	Total	<u>\$2,646,721</u>	<u>\$2,218,895</u>	<u>\$427,826</u>

(1) Docket 4431, MCS-7S, Pages 2-4, 6-8 filed on September 3, 2013

Schedule YC-8
Revenue Decoupling Adjustment Factor

**National Grid - RI Gas
RDM Factor
Effective November 1, 2014**

Line No.

1	RDM Reconciliation	(\$8,989,002)
2	Throughput for Residential/Small/Medium C&I	27,589,595 dth
3	RDM Factor - per dth	(\$0.3250) per dth
4	RDM Factor - per therm	(\$0.0325) per therm

1 Page 4, Column (n), Line 105
2 Company Forecast
3 Line (1) / Line (2)
4 Line (3) / 10

Line No.		Total															
		Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Per Rate Class	
		28	31	30	31	30	31	31	30	31	30	31	31	28	31	(n)	(o)
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
Residential Non-Heat																	
1	Benchmark Revenue Per Customer (RPC)	\$23.60	\$23.01	\$21.04	\$18.38	\$16.89	\$16.22	\$15.58	\$15.84	\$16.38	\$17.97	\$20.83	\$23.30	\$23.60	\$23.01		
2	RPC Factor Actl Beg. Bal.	\$0	(\$128,274)	(\$309,033)	(\$479,594)	(\$581,689)	(\$639,065)	(\$685,521)	(\$738,935)	(\$789,031)	(\$838,582)	(\$943,589)	(\$1,196,463)	(\$1,555,379)	(\$1,908,093)		
3	Actual Number of Customers	25,856	25,885	25,836	25,744	25,678	25,516	25,456	25,479	25,503	25,593	25,648	25,669	25,669	25,619		
4	Actual Base Revenue	\$738,296	\$776,072	\$713,708	\$574,771	\$490,500	\$459,617	\$449,167	\$452,818	\$466,464	\$563,870	\$785,925	\$955,539	\$956,725	\$944,003		
5	Actual Base Revenue Per Customer	\$28.55	\$29.98	\$27.62	\$22.33	\$22.21	\$18.01	\$17.64	\$17.77	\$18.29	\$22.03	\$30.64	\$37.23	\$37.27	\$36.85		
6	RPC Variance (Benchmark-Actual)	(\$4.96)	(\$6.97)	(\$6.59)	(\$3.94)	(\$2.21)	(\$1.79)	(\$2.07)	(\$1.94)	(\$1.91)	(\$4.07)	(\$9.82)	(\$13.93)	(\$13.68)	(\$13.84)		
7	Monthly Variance	(\$128,213)	(\$180,527)	(\$170,156)	(\$101,532)	(\$56,749)	(\$45,753)	(\$52,659)	(\$49,311)	(\$31,311)	(\$104,091)	(\$251,739)	(\$357,456)	(\$351,055)	(\$354,577)		
8	Preliminary End Balance	(\$128,213)	(\$308,801)	(\$479,189)	(\$581,126)	(\$638,439)	(\$684,818)	(\$738,180)	(\$788,246)	(\$837,719)	(\$942,674)	(\$1,195,328)	(\$1,553,919)	(\$1,906,433)	(\$2,262,677)		
9	Average Balance	(\$64,106)	(\$218,538)	(\$394,111)	(\$530,360)	(\$610,064)	(\$661,942)	(\$711,850)	(\$763,591)	(\$813,375)	(\$890,628)	(\$1,069,458)	(\$1,375,191)	(\$1,730,906)	(\$2,085,382)		
10	Bk America Rate less 200 Basis Points	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%		
11	Interest Applied	(\$61)	(\$232)	(\$405)	(\$563)	(\$627)	(\$703)	(\$756)	(\$785)	(\$864)	(\$915)	(\$1,135)	(\$1,460)	(\$1,660)	(\$2,214)		
12	RPC Factor Account End Balance	(\$128,274)	(\$309,033)	(\$479,594)	(\$581,689)	(\$639,065)	(\$685,521)	(\$738,935)	(\$789,031)	(\$838,582)	(\$943,589)	(\$1,196,463)	(\$1,555,379)	(\$1,908,093)	(\$2,264,884)		
13	Under/(Over) Recovery	(\$128,274)	(\$180,759)	(\$170,561)	(\$102,095)	(\$87,376)	(\$46,455)	(\$53,415)	(\$50,095)	(\$49,552)	(\$105,006)	(\$52,874)	(\$358,916)	(\$352,714)	(\$356,791)		
Residential Non-Heat Low Income																	
14	Benchmark Revenue Per Customer (RPC)	\$23.60	\$23.01	\$21.04	\$18.38	\$16.89	\$16.22	\$15.58	\$15.84	\$16.38	\$17.97	\$20.83	\$23.30	\$23.60	\$23.01		
15	RPC Factor Actl Beg. Bal.	\$0	(\$15,802)	(\$29,589)	(\$39,578)	(\$43,107)	(\$45,668)	(\$47,707)	(\$50,143)	(\$52,951)	(\$56,379)	(\$64,774)	(\$84,199)	(\$109,734)	(\$133,786)		
16	Actual Number of Customers	378	370	361	396	407	499	508	490	477	465	459	456	454	505		
17	Actual Base Revenue (w/o discount)	\$24,713	\$22,276	\$17,549	\$10,765	\$9,391	\$10,083	\$10,296	\$10,516	\$11,184	\$16,686	\$28,906	\$36,057	\$34,647	\$33,279		
18	RPC Variance (Benchmark-Actual)	\$65.38	\$60.20	\$48.61	\$27.18	\$23.07	\$20.21	\$20.27	\$21.46	\$23.45	\$35.88	\$62.98	\$79.07	\$76.32	\$65.90		
19	Monthly Variance	(\$15,794)	(\$13,763)	(\$9,954)	(\$3,485)	(\$2,516)	(\$1,989)	(\$4,691)	(\$5,662)	(\$7,066)	(\$17,921)	(\$42,151)	(\$55,771)	(\$52,721)	(\$42,891)		
20	Preliminary End Balance	(\$15,794)	(\$29,565)	(\$39,543)	(\$43,063)	(\$45,623)	(\$47,663)	(\$50,091)	(\$52,898)	(\$56,321)	(\$64,711)	(\$84,120)	(\$109,631)	(\$133,669)	(\$155,445)		
21	Average Balance	(\$7,897)	(\$22,683)	(\$34,566)	(\$41,321)	(\$44,365)	(\$46,663)	(\$48,899)	(\$51,520)	(\$54,636)	(\$60,545)	(\$74,447)	(\$96,915)	(\$121,701)	(\$144,616)		
22	Bk America Rate less 200 Basis Points	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%		
23	Interest Applied	(\$8)	(\$24)	(\$36)	(\$44)	(\$46)	(\$50)	(\$52)	(\$53)	(\$58)	(\$62)	(\$79)	(\$103)	(\$117)	(\$154)		
24	RPC Factor Account End Balance	(\$15,802)	(\$29,589)	(\$39,578)	(\$43,107)	(\$45,668)	(\$47,707)	(\$50,143)	(\$52,951)	(\$56,379)	(\$64,774)	(\$84,199)	(\$109,734)	(\$133,786)	(\$155,599)		
25	Under/(Over) Recovery	(\$15,802)	(\$13,787)	(\$9,989)	(\$3,529)	(\$2,561)	(\$2,039)	(\$2,435)	(\$2,809)	(\$3,428)	(\$8,395)	(\$19,425)	(\$25,535)	(\$24,052)	(\$21,813)		
Residential Non-Heat (incl Low Income)																	
27	Benchmark Revenue Per Customer (RPC)	\$23.60	\$23.01	\$21.04	\$18.38	\$16.89	\$16.22	\$15.58	\$15.84	\$16.38	\$17.97	\$20.83	\$23.30	\$23.60	\$23.01		
28	RPC Factor Actl Beg. Bal.	\$0	(\$144,076)	(\$338,622)	(\$519,172)	(\$624,796)	(\$684,734)	(\$733,228)	(\$789,078)	(\$841,982)	(\$894,961)	(\$1,008,362)	(\$1,280,662)	(\$1,665,113)	(\$2,041,879)		
29	Actual Number of Customers	26,234	26,255	26,197	26,140	26,085	26,015	25,969	25,969	25,980	26,058	26,107	26,125	26,123	26,124		
30	Actual Base Revenue (w/o discount)	\$763,009	\$798,348	\$731,257	\$585,535	\$499,891	\$469,700	\$459,464	\$463,334	\$477,647	\$580,556	\$814,821	\$991,596	\$991,373	\$977,282		
31	Actual Base Revenue Per Customer	\$29.08	\$30.41	\$27.91	\$22.40	\$19.16	\$18.05	\$17.70	\$17.84	\$18.39	\$22.28	\$31.21	\$37.96	\$37.95	\$37.41		
32	RPC Variance (Benchmark-Actual)	(\$5.49)	(\$7.40)	(\$6.88)	(\$4.02)	(\$2.27)	(\$1.84)	(\$2.12)	(\$2.00)	(\$2.00)	(\$4.31)	(\$10.38)	(\$14.35)	(\$14.35)	(\$14.40)		
33	Monthly Variance	(\$144,007)	(\$194,290)	(\$180,110)	(\$105,017)	(\$59,265)	(\$47,742)	(\$55,042)	(\$52,066)	(\$52,058)	(\$112,424)	(\$271,085)	(\$382,888)	(\$374,990)	(\$376,237)		
34	Preliminary End Balance	(\$144,007)	(\$338,366)	(\$518,732)	(\$624,189)	(\$684,061)	(\$732,476)	(\$788,270)	(\$841,144)	(\$894,040)	(\$1,007,385)	(\$1,279,447)	(\$1,663,550)	(\$2,040,102)	(\$2,418,116)		
35	Average Balance	(\$72,003)	(\$241,221)	(\$428,677)	(\$571,681)	(\$654,429)	(\$708,605)	(\$760,749)	(\$815,111)	(\$868,011)	(\$951,173)	(\$1,143,905)	(\$1,472,106)	(\$1,852,607)	(\$2,229,997)		
36	Bk America Rate less 200 Basis Points	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%		
37	Interest Applied	(\$69)	(\$256)	(\$440)	(\$607)	(\$672)	(\$752)	(\$808)	(\$837)	(\$922)	(\$977)	(\$1,214)	(\$1,563)	(\$1,776)	(\$2,367)		
38	RPC Factor Account End Balance	(\$144,076)	(\$338,622)	(\$519,172)	(\$624,796)	(\$684,734)	(\$733,228)	(\$789,078)	(\$841,982)	(\$894,961)	(\$1,008,362)	(\$1,280,662)	(\$1,665,113)	(\$2,041,879)	(\$2,420,483)		
39	Under/(Over) Recovery	(\$144,076)	(\$194,546)	(\$180,550)	(\$105,624)	(\$59,937)	(\$48,494)	(\$55,850)	(\$52,904)	(\$52,979)	(\$113,401)	(\$272,299)	(\$384,451)	(\$376,766)	(\$378,605)		

Line No.	Total														
	Per Rate Class														
	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	
	28	31	30	31	30	31	31	(b)	(i)	30	31	(l)	(m)	(n)	(o)
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
Residential Heating															
40	Benchmark Revenue Per Customer (RPC)	\$75.31	\$70.00	\$54.03	\$35.04	\$24.88	\$22.05	\$20.80	\$21.12	\$22.90	\$34.10	\$55.57	\$71.38	\$75.31	\$70.00
41	RPC Factor Actl Beg. Bal.	\$0	\$1,170,500	\$1,274,334	\$260,093	\$63,842	\$79,062	\$63,645	\$204,055	\$293,771	\$254,989	\$304,129	\$1,774,020	\$3,538,483	\$4,502,239
42	Actual Number of Customers	188,346	188,723	188,383	187,023	186,352	184,049	183,765	184,505	185,940	188,130	189,598	190,600	191,238	190,140
43	Actual Base Revenue	\$13,013,626	\$13,107,453	\$11,203,246	\$6,877,129	\$4,051,866	\$4,042,406	\$3,962,573	\$3,986,113	\$4,218,381	\$6,464,777	\$12,002,641	\$15,341,243	\$15,061,274	\$15,061,274
44	Actual Base Revenue Per Customer	\$69.09	\$69.45	\$59.41	\$36.77	\$24.96	\$21.96	\$21.56	\$21.60	\$22.69	\$34.36	\$63.32	\$80.72	\$80.22	\$79.21
45	RPC Variance (Benchmark-Actual)	\$6.21	\$0.54	(\$5.38)	(\$1.73)	(\$0.08)	\$0.08	(\$0.76)	(\$0.48)	\$0.21	(\$0.26)	(\$7.75)	(\$9.35)	(\$4.91)	(\$9.21)
46	Monthly Variance	\$1,169,939	\$102,537	(\$1,015,029)	(\$324,039)	(\$15,147)	\$15,493	(\$140,269)	(\$89,460)	\$39,073	(\$48,852)	(\$1,468,789)	(\$1,781,634)	(\$939,893)	(\$1,752,098)
47	Preliminary End Balance	\$1,169,939	\$1,273,037	\$259,305	\$63,946	(\$78,989)	(\$63,569)	(\$303,913)	(\$293,516)	(\$254,841)	(\$303,841)	(\$1,772,918)	(\$3,555,654)	(\$4,498,376)	(\$6,254,338)
48	Average Balance	\$584,969	\$1,221,768	\$766,820	\$98,073	(\$71,415)	(\$71,315)	(\$133,779)	(\$248,786)	(\$274,235)	(\$279,415)	(\$1,038,523)	(\$2,664,837)	(\$4,028,430)	(\$5,378,288)
49	Bk America Rate less 200 Basis Points	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%
50	Interest Applied	\$561	\$1,297	\$788	\$104	(\$73)	(\$76)	(\$142)	(\$291)	(\$287)	(\$279)	(\$1,103)	(\$2,829)	(\$3,863)	(\$5,710)
51	RPC Factor Account End Balance	\$1,170,500	\$1,274,334	\$260,093	\$63,842	(\$79,062)	(\$63,645)	(\$204,055)	(\$293,771)	(\$254,989)	(\$304,129)	(\$1,774,020)	(\$3,558,483)	(\$4,502,239)	(\$6,260,047)
52	Under/(Over) Recovery	\$1,170,500	\$103,834	(\$1,014,241)	(\$323,935)	(\$15,220)	\$15,417	(\$140,411)	(\$89,716)	\$38,782	(\$49,139)	(\$1,469,892)	(\$1,784,463)	(\$943,756)	(\$1,757,808)
Residential Heating - Low Income															
53	Benchmark Revenue Per Customer (RPC)	\$75.31	\$70.00	\$54.03	\$35.04	\$24.88	\$22.05	\$20.80	\$21.12	\$22.90	\$34.10	\$55.57	\$71.38	\$75.31	\$70.00
54	RPC Factor Actl Beg. Bal.	\$0	\$94,041	\$95,552	(\$11,114)	(\$18,017)	(\$30,685)	(\$33,275)	(\$65,017)	(\$96,166)	(\$115,366)	(\$144,307)	(\$322,864)	(\$514,303)	(\$602,874)
55	Actual Number of Customers	18,178	18,011	17,943	18,537	18,501	20,169	19,948	19,413	18,989	18,649	18,477	18,264	18,119	19,422
56	Actual Base Revenue (w/o discount)	\$1,274,915	\$1,076,082	\$656,404	\$472,241	\$225.56	\$22.17	\$22.39	\$22.72	\$23.90	\$35.65	\$65.22	\$81.83	\$80.16	\$73.80
57	Actual Base Revenue Per Customer	\$70.14	\$69.92	\$35.97	\$25.41	\$12.36	\$1.10	\$1.14	\$1.17	\$1.24	\$1.90	\$3.53	\$4.48	\$4.41	\$3.80
58	RPC Variance (Benchmark-Actual)	\$5.17	\$0.08	(\$5.95)	(\$0.37)	(\$0.68)	(\$0.13)	(\$1.59)	(\$1.60)	(\$1.01)	(\$1.54)	(\$9.65)	(\$10.46)	(\$4.86)	(\$3.80)
59	Monthly Variance	\$93,996	\$1,410	(\$6,887)	(\$2,556)	(\$12,643)	(\$2,556)	(\$31,066)	(\$31,066)	(\$19,088)	(\$28,807)	(\$178,309)	(\$190,995)	(\$88,035)	(\$73,877)
60	Preliminary End Balance	\$93,996	\$95,451	(\$11,158)	(\$18,001)	(\$30,660)	(\$33,241)	(\$64,965)	(\$96,083)	(\$115,254)	(\$144,173)	(\$222,616)	(\$313,859)	(\$602,339)	(\$876,751)
61	Average Balance	\$46,998	\$94,746	\$42,197	(\$14,558)	(\$24,338)	(\$31,963)	(\$49,120)	(\$80,550)	(\$105,710)	(\$129,770)	(\$233,461)	(\$418,361)	(\$558,321)	(\$639,813)
62	Bk America Rate less 200 Basis Points	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%
63	Interest Applied	\$45	\$101	\$43	(\$15)	(\$25)	(\$34)	(\$52)	(\$83)	(\$112)	(\$133)	(\$248)	(\$444)	(\$535)	(\$679)
64	RPC Factor Account End Balance	\$94,041	\$95,552	(\$11,114)	(\$18,017)	(\$30,685)	(\$33,275)	(\$65,017)	(\$96,166)	(\$115,366)	(\$144,307)	(\$222,864)	(\$314,303)	(\$602,874)	(\$677,430)
65	Under/(Over) Recovery	\$94,041	\$1,511	(\$106,666)	(\$6,902)	(\$12,668)	(\$2,590)	(\$31,741)	(\$31,149)	(\$19,200)	(\$28,941)	(\$178,557)	(\$191,439)	(\$88,571)	(\$74,556)
Residential Heat (incl Low Income)															
66	Benchmark Revenue Per Customer (RPC)	\$75.31	\$70.00	\$54.03	\$35.04	\$24.88	\$22.05	\$20.80	\$21.12	\$22.90	\$34.10	\$55.57	\$71.38	\$75.31	\$70.00
67	RPC Factor Actl Beg. Bal.	\$0	\$1,264,541	\$1,369,886	\$248,979	(\$81,859)	(\$109,747)	(\$96,920)	(\$269,072)	(\$389,937)	(\$370,455)	(\$448,435)	(\$2,096,884)	(\$4,072,786)	(\$5,085,113)
68	Actual Number of Customers	206,524	206,734	206,526	205,560	204,853	204,218	203,713	203,918	204,929	206,779	208,036	208,664	209,357	209,562
69	Actual Base Revenue (w/o discount)	\$14,288,540	\$14,369,734	\$12,279,328	\$7,533,533	\$5,124,842	\$4,489,647	\$4,409,179	\$4,427,172	\$4,672,479	\$7,129,234	\$13,207,723	\$16,880,816	\$16,793,746	\$16,494,627
70	Actual Base Revenue Per Customer	\$69.19	\$69.45	\$59.41	\$36.65	\$25.02	\$21.96	\$21.64	\$21.71	\$22.80	\$34.48	\$63.49	\$80.82	\$80.22	\$78.71
71	RPC Variance (Benchmark-Actual)	\$6.12	\$0.50	(\$5.43)	(\$1.61)	(\$0.14)	\$0.06	(\$0.84)	(\$0.59)	\$0.10	(\$0.38)	(\$7.92)	(\$9.44)	(\$4.91)	(\$8.71)
72	Monthly Variance	\$1,263,935	\$103,947	(\$1,121,738)	(\$30,926)	(\$27,990)	\$12,937	(\$171,958)	(\$120,527)	\$19,985	(\$77,659)	(\$1,972,629)	(\$1,972,629)	(\$1,027,929)	(\$1,825,975)
73	Preliminary End Balance	\$1,263,935	\$1,368,488	\$248,147	(\$81,947)	(\$109,648)	(\$96,810)	(\$268,878)	(\$389,599)	(\$369,952)	(\$448,015)	(\$2,095,534)	(\$4,069,513)	(\$5,100,715)	(\$6,931,089)
74	Average Balance	\$631,967	\$1,316,515	\$809,017	\$83,516	(\$95,754)	(\$103,279)	(\$182,899)	(\$329,335)	(\$379,945)	(\$409,185)	(\$1,271,985)	(\$3,083,199)	(\$4,586,751)	(\$6,018,101)
75	Bk America Rate less 200 Basis Points	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%
76	Interest Applied	\$606	\$1,398	\$831	\$89	(\$98)	(\$110)	(\$194)	(\$338)	(\$403)	(\$420)	(\$1,330)	(\$3,273)	(\$4,398)	(\$6,389)
77	RPC Factor Account End Balance	\$1,264,541	\$1,369,886	\$248,979	(\$81,859)	(\$109,747)	(\$96,920)	(\$269,072)	(\$389,937)	(\$370,455)	(\$448,435)	(\$2,096,884)	(\$4,072,786)	(\$5,105,113)	(\$6,937,478)
78	Under/(Over) Recovery	\$1,264,541	\$105,345	(\$1,120,907)	(\$330,837)	(\$27,888)	\$12,827	(\$172,152)	(\$120,865)	\$19,582	(\$78,080)	(\$1,648,449)	(\$1,975,902)	(\$1,032,327)	(\$1,832,364)
															(6,937,478)

Line No.	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Total
	28	31	30	31	30		31	30	31	30	31	31	28	31	(o)
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	
Small C&I															
79	Benchmark Revenue Per Customer (RPC)	\$101.17	\$104.13	\$77.93	\$50.14	\$33.47	\$31.72	\$29.56	\$32.02	\$46.85	\$78.12	\$116.16	\$101.17	\$104.13	
80	RPC Factor Actd Beg. Bal.	(\$39,047)	\$79,067	\$79,067	\$5,831	\$13,980	\$60,812	\$106,081	\$16,567	\$157,981	\$201,036	\$33,244	\$46,474	(\$343,199)	
81	Actual Number of Customers	18,800	18,800	18,697	18,524	18,381	18,270	18,251	18,267	18,480	18,856	18,995	19,020	19,027	
82	Actual Base Revenue	1,946,940	1,897,520	1,539,397	920,712	568,493	534,435	537,701	527,556	551,844	1,664,896	2,193,198	2,213,747	2,151,440	
83	Actual Base Revenue Per Customer	\$103.24	\$89.55	\$81.85	\$49.70	\$30.93	\$29.25	\$29.48	\$28.92	\$30.05	\$87.02	\$116.39	\$113.07	\$113.07	
84	RPC Variance (Benchmark- Actual)	\$2.08	\$6.28	\$3.92	\$4.04	\$2.55	\$2.47	\$0.08	\$0.49	\$1.77	\$42.56	\$30.69	\$13.22	(\$8.94)	
85	Monthly Variance	(\$39,028)	\$118,095	(\$73,280)	\$8,139	\$46,793	\$45,181	\$1,384	\$36,271	\$47,873	(\$167,897)	\$13,168	(\$289,578)	(\$170,151)	
86	Preliminary End Balance	(\$39,028)	\$79,046	\$5,787	\$13,970	\$60,774	\$105,993	\$107,465	\$116,452	\$200,835	\$33,139	\$46,432	(\$243,104)	(\$410,151)	
87	Average Balance	(\$15,514)	\$20,000	\$4,427	\$9,900	\$33,377	\$83,402	\$106,713	\$121,015	\$176,918	\$117,088	\$39,848	(\$98,315)	(\$328,274)	
88	Bk. America Rate less 200 Basis Points	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
89	Interest Applied	(\$19)	\$21	\$44	\$11	\$38	\$89	\$113	\$124	\$182	\$124	\$42	(\$94)	(\$349)	
90	RPC Factor Account End Balance	(\$39,047)	\$79,067	\$5,831	\$13,980	\$60,812	\$106,081	\$107,578	\$116,567	\$201,036	\$33,244	\$46,474	(\$243,199)	(\$413,698)	
91	Under/(Over) Recovery	(\$39,047)	\$118,114	(\$73,237)	\$8,150	\$46,832	\$45,269	\$1,497	\$8,988	\$36,414	(\$167,773)	\$13,210	(\$289,673)	(\$170,499)	
Medium C&I															
92	Benchmark Revenue Per Customer (RPC)	\$518.03	\$496.12	\$390.91	\$306.74	\$258.99	\$228.10	\$215.25	\$250.75	\$319.05	\$401.46	\$503.80	\$518.03	\$496.12	
93	RPC Factor Actd Beg. Bal.	\$0	\$293,140	\$470,060	\$537,003	\$689,503	\$892,756	\$1,013,886	\$1,141,536	\$1,046,918	\$1,472,040	\$1,307,021	\$1,062,665	\$930,040	
94	Actual Number of Customers	4,696	4,705	4,702	4,691	4,694	4,684	4,700	4,734	4,758	4,782	4,773	4,780	4,784	
95	Actual Base Revenue	\$2,139,687	\$2,157,723	1,771,631	1,287,051	1,013,244	948,317	972,226	1,039,382	1,321,738	2,076,641	2,650,229	2,609,782	2,521,722	
96	Actual Base Revenue Per Customer	\$455.64	\$458.60	\$376.78	\$274	\$216	\$202	\$208	\$221	\$279	\$436	\$555	\$546	\$527	
97	RPC Variance (Benchmark- Actual)	\$62.39	\$37.52	\$14.13	\$74	\$43	\$26	\$7	\$20	\$40	(\$35)	(\$51)	(\$28)	(\$31)	
98	Monthly Variance	\$293,000	\$176,514	\$66,426	\$151,849	\$202,441	\$120,119	\$31,938	\$93,494	\$139,155	(\$188,649)	(\$245,614)	(\$133,579)	(\$48,291)	
99	Preliminary End Balance	\$293,000	\$469,655	\$536,486	\$688,852	\$891,944	\$1,012,875	\$1,045,825	\$1,280,691	\$1,470,626	\$1,305,547	\$1,061,407	\$929,085	\$781,749	
100	Average Balance	\$146,500	\$381,398	\$516,273	\$612,928	\$790,723	\$952,816	\$1,029,856	\$1,211,113	\$1,376,301	\$1,388,793	\$1,184,214	\$995,875	\$855,895	
101	Bk. America Rate less 200 Basis Points	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
102	Interest Applied	\$140	\$405	\$517	\$651	\$812	\$1,012	\$1,093	\$1,286	\$1,474	\$1,257	\$955	\$955	\$909	
103	RPC Factor Account End Balance	\$293,140	\$470,060	\$537,003	\$689,503	\$892,756	\$1,013,886	\$1,046,918	\$1,281,977	\$1,472,040	\$1,307,021	\$1,062,665	\$930,040	\$782,658	
104	Under/(Over) Recovery	\$293,140	\$176,919	\$66,943	\$152,300	\$203,253	\$121,130	\$33,032	\$94,618	\$140,441	(\$165,019)	(\$244,356)	(\$132,624)	(\$147,383)	
105	Ending Balances														(\$8,989,002)

Schedule YC-9
ISR Reconciliation Factors

National Grid - RI Gas
FY 14 ISR Reconciliation Factors
Effective November 1, 2014

Line No.	Revenue Requirement (a) (b)	Rate Class	Rate Base Allocator %	Allocation to Rate Class	Actual Revenue (c)	Difference (f)	ISR Recon Under/(Over) Recovery (g)	Total Under Recovery by Rate Class (h)	Forecasted Throughput (dth) (i)	ISR Recon (dth) (i)	ISR Recon (therm) (k)
1											
2	\$1,633,930										
3		Res-NH	3.73%	\$60,962	\$38,222	\$22,741	\$44,371	\$67,112	761,987	\$0,0881	\$0,0088
4		Res-H	61.56%	\$1,005,817	\$417,749	\$588,068	(\$25,379)	\$562,690	18,973,642	\$0,0297	\$0,0030
5		Small	8.19%	\$133,770	\$56,392	\$77,379	(\$3,504)	\$73,874	2,555,277	\$0,0289	\$0,0029
6		Medium	13.58%	\$221,942	\$91,561	\$130,381	(\$1,498)	\$128,883	5,298,689	\$0,0243	\$0,0024
7		Large LL	6.04%	\$98,640	\$40,649	\$57,991	\$484	\$58,474	2,932,140	\$0,0199	\$0,0020
8		Large HL	2.35%	\$38,468	\$19,241	\$19,227	\$1,195	\$20,422	1,183,444	\$0,0173	\$0,0017
9		XL-LL	0.77%	\$12,564	\$5,696	\$6,867	(\$4,655)	\$2,212	1,058,607	\$0,0021	\$0,0002
10		XL-HL	3.78%	\$61,767	\$28,400	\$33,366	(\$1,756)	\$31,610	5,346,731	\$0,0059	\$0,0006
		Total	100.00%	\$1,633,930	\$697,910	\$936,020	\$9,258	\$945,278	38,110,517		

(a) Docket 4380, FY 14 Updated ISR Cumulative Revenue Requirement filed Aug 1, 2014

(c) Docket 4323, RI 2012 Rate Case

(d) Col (a), Line 1 X Col (c), Lines 2 through 9 respectively

(e) Page 2, Col (n), Lines 18 through 25

(f) Column (d) - Column (e)

(g) YC-7 - Page 7,8 Column (l) Lines 25, 34, 43, 52, 61, 70, 79, 88

(h) Column (f) + Column (g)

(i) Per Company Forecast

(j) Column (h) / Column (i)

(k) Column (j) / 10

National Grid - RI Gas
FY 2014 Gas ISR

Line No.	ISR Rates \$/dth (w/o uncollectibles)	(a)	Apr-13 (b) actual - 50%/50%	May-13 (c)	Jun-13 (d)	Jul-13 (e)	Aug-13 (f)	Sep-13 (g)	Oct-13 (h)	Nov-13 (i)	Dec-13 (j)	Jan-14 (k)	Feb-14 (l)	Mar-14 (m)	Total (n)
1	Res-NH	\$0.00	\$0.0222	\$0.0444	\$0.0444	\$0.0444	\$0.0444	\$0.0444	\$0.0444	\$0.0444	\$0.0444	\$0.0444	\$0.0444	\$0.0444	\$0.0444
2	Res-H	\$0.00	\$0.0115	\$0.0230	\$0.0230	\$0.0230	\$0.0230	\$0.0230	\$0.0230	\$0.0230	\$0.0230	\$0.0230	\$0.0230	\$0.0230	\$0.0230
3	Small	\$0.00	\$0.0115	\$0.0229	\$0.0229	\$0.0229	\$0.0229	\$0.0229	\$0.0229	\$0.0229	\$0.0229	\$0.0229	\$0.0229	\$0.0229	\$0.0229
4	Medium	\$0.00	\$0.0084	\$0.0168	\$0.0168	\$0.0168	\$0.0168	\$0.0168	\$0.0168	\$0.0168	\$0.0168	\$0.0168	\$0.0168	\$0.0168	\$0.0168
5	Large LL	\$0.00	\$0.0072	\$0.0144	\$0.0144	\$0.0144	\$0.0144	\$0.0144	\$0.0144	\$0.0144	\$0.0144	\$0.0144	\$0.0144	\$0.0144	\$0.0144
6	Large HL	\$0.00	\$0.0084	\$0.0168	\$0.0168	\$0.0168	\$0.0168	\$0.0168	\$0.0168	\$0.0168	\$0.0168	\$0.0168	\$0.0168	\$0.0168	\$0.0168
7	XL-LL	\$0.00	\$0.0024	\$0.0048	\$0.0048	\$0.0048	\$0.0048	\$0.0048	\$0.0048	\$0.0048	\$0.0048	\$0.0048	\$0.0048	\$0.0048	\$0.0048
8	XL-HL	\$0.00	\$0.0027	\$0.0053	\$0.0053	\$0.0053	\$0.0053	\$0.0053	\$0.0053	\$0.0053	\$0.0053	\$0.0053	\$0.0053	\$0.0053	\$0.0053
RI Firm Throughput (dth)															
9	Res-NH		88,456	55,392	37,045	29,727	27,953	28,514	31,992	55,340	108,460	148,680	148,361	145,157	905,074
10	Res-H		2,183,017	1,098,773	569,926	410,415	392,371	396,332	459,529	1,069,380	2,438,809	3,466,384	3,435,123	3,334,439	19,254,497
11	Small		278,135	128,556	49,170	40,658	44,579	35,651	49,094	115,595	324,268	517,511	521,961	496,004	2,601,882
12	Medium		588,764	325,217	187,113	158,376	162,881	161,807	196,053	339,084	715,690	978,145	985,947	945,350	5,744,426
13	Large LL		369,799	122,209	37,469	25,612	38,830	45,311	78,383	197,162	431,569	559,172	595,716	506,522	3,007,753
14	Large HL		113,111	69,178	68,502	71,204	63,883	84,827	84,960	101,997	101,893	109,799	211,968	120,561	1,201,882
15	XL-LL		300,780	(64,639)	(226)	(10,571)	12,441	39,525	40,905	106,115	238,139	242,187	250,714	181,749	1,337,119
16	XL-HL		565,070	352,513	281,843	478,755	398,632	401,765	366,617	438,397	539,552	619,503	689,975	508,480	5,641,102
17	Total		4,487,733	2,087,298	1,230,842	1,204,176	1,141,569	1,193,729	1,307,533	2,423,071	4,898,381	6,641,379	6,839,764	6,238,261	39,693,734
ISR Actual Revenue															
18	Res-NH	(1) * (9)	\$1,964	\$2,459	\$1,645	\$1,320	\$1,241	\$1,266	\$1,420	\$2,457	\$4,816	\$6,601	\$6,587	6,445	\$38,222
19	Res-H	(2) * (10)	\$25,105	\$25,272	\$13,108	\$9,440	\$9,025	\$9,116	\$10,569	\$24,596	\$56,093	\$79,727	\$79,008	76,692	\$417,749
20	Small	(3) * (11)	\$3,192	\$2,946	\$1,126	\$931	\$1,021	\$816	\$1,124	\$2,647	\$7,426	\$11,851	\$11,953	11,358	\$56,392
21	Medium	(4) * (12)	\$4,946	\$5,464	\$3,143	\$2,661	\$2,736	\$2,718	\$3,294	\$5,697	\$12,024	\$16,433	\$16,564	15,882	\$91,561
22	Large LL	(5) * (13)	\$2,663	\$1,760	\$540	\$369	\$559	\$652	\$1,129	\$2,839	\$6,215	\$8,052	\$8,578	7,294	\$40,649
23	Large HL	(6) * (14)	\$950	\$1,162	\$1,151	\$1,196	\$1,073	\$1,425	\$1,427	\$1,714	\$1,712	\$1,845	\$3,561	2,025	\$19,241
24	XL-LL	(7) * (15)	\$722	\$(310)	\$(31)	\$(51)	\$60	\$190	\$196	\$509	\$1,143	\$1,162	\$1,203	872	\$5,696
25	XL-HL	(8) * (16)	\$1,497	\$1,868	\$1,494	\$2,537	\$2,113	\$2,129	\$1,943	\$2,324	\$2,860	\$3,283	\$3,657	2,695	\$28,400
26	Total	Sum ((18):(25))	\$41,038	\$40,621	\$22,206	\$18,403	\$17,828	\$18,313	\$21,103	\$42,782	\$92,287	\$128,955	\$131,112	\$123,264	\$697,910

Col (a), Ln 1 through 8 per Docket No. 4323, FY 13 ISR partly recovered through base rates

Col (b) Lns 1-8, 50% of FY 13 ISR Factor after Rate case compliance Dkt 4323 + 50% of FY 14 ISR Factor

**Testimony of
William R. Richer**

DIRECT TESTIMONY

OF

WILLIAM R. RICHER

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1 **I. Introduction and Qualifications**

2 **Q. Please state your full name and business address.**

3 A. My name is William R. Richer and my business address is 40 Sylvan Road, Waltham,
4 Massachusetts 02451.

6 **Q. By whom are you employed and in what position?**

7 A. I am the Director of Revenue Requirements, Rhode Island, for National Grid USA
8 Service Company, Inc. (“Service Company”), providing services to The Narragansett
9 Electric Company (the “Company”) to both its gas and electric businesses.

11 **Q. Please describe your education and professional experience.**

12 A. In 1985, I earned a Bachelor of Science degree in Accounting from Northeastern
13 University. During my schooling I interned at the public accounting firm Pannell Kerr
14 Forster in Boston, Massachusetts as a staff auditor and continued with this firm after
15 my graduation. In February 1986, I joined Price Waterhouse in Providence, Rhode
16 Island where I worked as a staff auditor and senior auditor. During this time, I earned
17 my certified public accountants license in the State of Rhode Island. In June 1990, I
18 joined National Grid (“National Grid”) in the Service Company (then known as New
19 England Power Service Company) as a supervisor of Plant Accounting.

1 Since that time I have held various positions within the Service Company including
2 Manager of Financial Reporting, Principal Rate Department Analyst, Manager of
3 General Accounting, Director of Accounting Services, and Assistant Controller.
4

5 **Q. Have you previously testified before the Rhode Island Public Utilities**
6 **Commission (the “PUC”)?**

7 A. Yes. I have testified before the PUC on numerous occasions.
8

9 **II. Purpose of Testimony**

10 **Q. What is the purpose of your testimony in this proceeding?**

11 A. My testimony supports the following aspects related to the Company’s Distribution
12 Adjustment Clause (“DAC”):

13 (1) Pursuant to the DAC provisions of the Company’s gas tariff, R.I.P.U.C.
14 NG-Gas No. 101, under Section 3, Schedule A, if there are any excess earnings to be
15 shared with customers, as I describe in more detail below, then any customer share of
16 that savings is to flow back to customers through the DAC. My testimony describes
17 the status of the Company’s earnings subject to the Company’s Earnings Sharing
18 Mechanism (“ESM”) for the periods ending March 31, 2014 and March 31, 2013. As
19 a result of the Company’s last general rate case in Docket No. 4323, effective
20 February 1, 2013 (“2012 Rate Case”), the Company’s earnings pertaining to the
21

1 operation of the ESM is to be measured over the Company's fiscal year ("FY"), which
2 ends on March 31.

3 (2) I provide and describe the calculation of the Pension and Postretirement
4 Benefits Other Than Pensions ("PBOP") costs subject to the reconciliation mechanism
5 for these costs.

6 (3) I provide and describe the actual revenue requirement of the Company's
7 FY 2014 Infrastructure, Safety, and Reliability ("ISR") Plan to be used in the
8 reconciliation to the revenues recovered through the ISR Plan factors approved by the
9 PUC in Docket No. 4306.

10
11 **Q. Are there any schedules to your testimony?**

12 **A.** Yes, I am sponsoring the following schedules:

- 13 • Schedule WRR-1 Pension and Postretirement Benefits Other Than Pensions
14 Reconciliation
- 15
- 16 • Schedule WRR-2 Actual vs. Forecasted Revenue Requirement Associated with F
17 2014 Infrastructure, Safety, and Reliability ("ISR") Plan
18
19

20 **III. Earnings Sharing Mechanism Results**

21 **Q. Please provide the background for the Earnings Sharing Mechanism ("ESM").**

22 **A.** In Docket No. 3401, Order No. 17381, the PUC approved a base-rate settlement
23 between the Division, The Energy Council of Rhode Island, and National Grid that
24 required the former New England Gas Company to file an earnings sharing calculation

1 based on a 12-month period ended June 30, by September 1 of each year as part of an
2 incentive-based ESM. Obligations of this settlement agreement were assumed by the
3 Company in connection with its acquisition of the regulated gas assets in Rhode Island
4 from Southern Union Company (“Southern Union”).¹ As part of the Company’s 2012
5 Rate Case and the resulting settlement agreement, approved by the PUC in January
6 2013, the Company continues to file an earnings report; however, earnings will now
7 be measured over the Company’s fiscal year (12 months ending March 31) and will be
8 filed by July 1 following the end of each fiscal year.

9
10 **Q. Has the Company submitted its calculation of the return on equity under the**
11 **ESM for FY 2014?**

12 A. On July 3, 2014, the Company submitted preliminary supplemental earnings report for
13 the twelve-month period ended March 31, 2013 and preliminary earnings report for
14 the twelve-month period ended March 31, 2014. In last year’s ESM filing, the
15 Company submitted an earnings report for the 12-months ended September 30, 2012
16 rather than for the year ending March 31, 2013, and explained that due to the recent
17 implementation of its new financial system, financial data for the period November
18 2012 through March 31, 2013 was unavailable and that the Company would file a
19 supplemental earnings report for the twelve months ended March 31, 2013 after the
20 information became available. On July 3, 2014, the Company supplemented this

¹ The on-going requirement for the ESM is set forth in the Company’s tariff, RIPUC NG-GAS No. 101, Section 3, Schedule A, Sheet 11, sub-part 5.0.

1 earnings report with preliminary information for the year ending March 31, 2013. In
2 addition, the Company provided a preliminary report for the period ending March 31,
3 2014.

4
5 **Q. Does the Company anticipate a significant difference between the earnings it**
6 **reported in its July 3, 2014 earnings reports for the FY 2014 and FY 2013 and**
7 **what it will eventually report once all of the financial information is finalized?**

8 A. Although the Company cannot, with certainty, state what its earnings will be for FY
9 2014 and 2013, it is unlikely that it will have excess earnings that will be subject to
10 sharing with its customers. The reported preliminary returns on equity for FY 2014
11 and FY 2013 were 8.24 percent and 7.17 percent, respectively.

12
13 **IV. Pension and PBOP Expense Reconciliation**

14 **Q. Generally, how does the reconciliation of pension and PBOP expense operate?**

15 A. In the Company's 2008 general rate case in Docket No. 3943 ("2008 Rate Case"), the
16 PUC approved the Company's proposal to reconcile its PBOP expenses against the
17 allowance in base rates and recover/refund any difference annually through the DAC.
18 In accordance with the Company's Tariff, RIPUC NG No. 101, Section 3, Schedule A,
19 Item 3.6, the pension adjustment factor ("PAF") is designed to recover or refund the
20 prior year's reconciliation of the Company's actual pension and PBOP expenses to the
21

1 Company's pension and PBOP expenses that were included in base rates. The
2 adjustment factor is based on this difference.

3
4 In the 2012 Rate Case, the rate allowances for both pension and PBOP were
5 established at then-current levels.

6
7 The Company will contribute to the pension and PBOP plans at the "Minimum
8 Funding Obligation" level. The Minimum Funding Obligation level would be equal to
9 the amount billed to customers, plus the amounts of pension and PBOP costs
10 capitalized. The amount billed to customers would include: (1) pension and PBOP
11 allowance in base rates, and (2) plus or minus the amount of PAF billed or credited to
12 customers. The Company will pay a carrying charge to customers at the weighted
13 average cost of capital, which would be applied to the cumulative shortfall between
14 the minimum funding obligation and amounts contributed by the Company to the
15 pension and PBOP plans, plus amounts paid to the Service Company for allocated
16 pension and PBOP costs.

17
18 **Q. Has the Company performed this reconciliation for the period ending March**
19 **2014?**

20 **A.** Yes it has. It is included as Schedule WRR-1.

21

1 **Q. Please describe the Company’s calculation of actual pension and PBOP expense**
2 **in light of the recent implementation of the Company’s new financial system and**
3 **the difficulty in retrieving the relevant financial data discussed above?**

4 A. The Company calculated estimated pension and PBOP costs for the period April 1,
5 2013 through March 31, 2014 using the data available from the Company’s actuary for
6 the period April 1, 2013 through March 31, 2014. The total annual expense amounts
7 were adjusted for the breakdown between capital and operation and maintenance
8 expense using the percentages established in the 2012 Rate Case. The Company
9 proposes to true-up the estimate of expense for the period April 1, 2013 through
10 March 31, 2014 in this reconciliation to actual once the amounts are known for that
11 period, and include the difference in the pension and PBOP reconciliation, including
12 interest on any over- or under-estimated difference, to be filed in the future.

13
14 **Q. What is the result of the Company’s reconciliation?**

15 A. The Company’s reconciliation indicates that it has over-recovered both pension and
16 PBOP costs for the period ending March 2014 in the amounts of \$159,913 and
17 \$948,303, respectively. In addition, both the pension and the PBOP liabilities were
18 under-funded during this time leading to carrying charges of \$349,956 and \$575,936,
19 respectively, which will be credited to customers. These amounts are reflected in the
20 schedules of Company Witness Yi-An Chen to be included in the calculation of the
21 DAC factors proposed to take effect on November 1, 2014.

1 **V. Actual vs. Forecasted FY 2014 ISR Plan Investment**

2 **Q. Has the Company determined the revenue requirement associated with the actual**
3 **FY 2014 ISR Plan investment?**

4 **A.** Yes it has. The Company has submitted its ISR Plan reconciliation filing for the
5 Company's gas business in Docket No. 4380 on August 1, 2014. In this filing, the
6 Company has calculated the revenue requirement on actual capital investment for
7 plant placed into service during FY 2014. The Company's calculation of the revenue
8 requirement takes into consideration that a portion of the forecasted FY 2014 ISR Plan
9 investment was put into rate base and is now being recovered in base rates as a result
10 of the 2012 Rate Case. Therefore, the Company has reflected the change in how it is
11 recovering this plant investment in the calculation of the revenue requirement
12 associated with actual gas ISR Plan investment. For ease of reference, the Company is
13 providing the summary of the FY 2014 gas ISR revenue requirement in Schedule
14 WRR-2. The revenue requirement reflected in this Schedule is also reflected in the
15 schedules of Ms. Chen in determining the amount of over/under recovery through the
16 gas ISR Plan reconciliation mechanism, and specifically through the gas ISR factors
17 that were in effect during the period April 1, 2013 through January 31, 2014.

18
19 **VI. Conclusion**

20 **Q. Does this conclude your testimony?**

21 **A.** Yes.

**Schedules of
William R. Richer**

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
R.I.P.U.C. DOCKET NO. 4514
DISTRIBUTION ADJUSTMENT CHARGE FILING
WITNESS: WILLIAM R. RICHER
AUGUST 1, 2014

Schedules of William R. Richer

Schedule WRR-1	Pension and Postretirement Benefits Other Than Pensions Reconciliation
Schedule WRR-2	Actual vs. Forecasted Revenue Requirement Associated with FY 2014 Infrastructure, Safety, and Reliability ("ISR") Plan

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
R.I.P.U.C. DOCKET NO. 4514
DISTRIBUTION ADJUSTMENT CHARGE FILING
WITNESS: WILLIAM R. RICHER
AUGUST 1, 2014

Schedule WRR-1

Pension and Postretirement Benefits Other Than Pensions Reconciliation

Narragansett Electric - Gas Operations
Pension Costs
12 Months Ended March 31, 2014

Line No.		April 2013 thru March 2014 (a)
1	<u>Rate Allowance:</u>	
2	National Grid - RI Gas Pension Costs Allowance	\$4,702,324
3	National Grid - Service Company Allocated Pension Costs Allowance	<u>2,977,528</u>
4	Total Pension Costs	<u>\$7,679,852</u>
5		
6	<u>Expense Reconciliation:</u>	
7	April 2013 to March 2014 Estimated Pension Expense Including Service Company-Allocated Expense	<u>\$7,519,939</u>
8		
9	Current Year Regulatory Expense Reconciliation	(\$159,913)
10		
11	Funding Carrying Charge	(\$349,956)

Line Notes:

- 2(a) Docket No. 4323 Attachment MDL-3-GAS page 36 of 65 line 1(e)
- 3(a) Docket No. 4323 Attachment MDL-3-GAS page 36 of 65 sum of lines 2(e) thru 5(e)
- 4 Line 2 plus Line 3
- 7 Page 5 of 6, Line 9(f)
- 9 Line 7 minus Line 4
- 11 Minus Page 3 of 6, line 26(h)

Narragansett Electric - Gas Operations
Post-Retirement Benefits Other Than Pension (PBOP) Costs
12 Months Ended March 31, 2014

Line No.		April 2013 thru March 2014 (a)
1	<u>Rate Allowance</u>	
2	National Grid - RI Gas PBOP Costs Allowance	\$2,470,365
3	National Grid - Service Company Allocated PBOP Costs Allowance	1,852,439
4	Total PBOP Costs	<u>\$4,322,804</u>
5		
6	<u>Expense Reconciliation</u>	
7	April 2013 to March 2014 Estimated PBOP Expense Including Service Company-Allocated Expense	<u>\$3,374,502</u>
8		
9	Current Year Regulatory Expense Reconciliation	(\$948,303)
10		
11	Funding Carrying Charge	(\$575,936)

Line Notes:

- 2(a) Docket No. 4323 Attachment MDL-3-GAS page 35 of 65 line 1(e)
- 3(a) Docket No. 4323 Attachment MDL-3-GAS page 35 of 65 sum of lines 2(e) thru 5(e)
- 4 Line 2 plus Line 3
- 7 Page 6 of 6, Line 9(f)
- 9 Line 7 minus Line 4
- 11 Page 6 of 6, Line 9(f)

Narragansett Electric - Gas Operations
Pension Funding Carrying Charges
12 Months Ended March 31, 2014

	(a)	(b)	(c)	(d)	(e)	(f)	(g)
	Dkt 4323	Mar-2013	Jun-2013	Sep-2013	Dec-2013	Mar-2014	
Customer Funding							
1 Base Rate Recovery:							
2 Direct	\$4,702,324	\$1,181,844	\$1,175,581	\$1,175,581	\$1,175,581	\$1,175,581	
3 Servco	\$2,977,528	\$519,132	\$744,382	\$744,382	\$744,382	\$744,382	
4							
5 PAM Surcharge Recovery:		\$620,381	\$620,381	\$620,381	\$516,850	\$465,084	
6 Pension Capitalized Amount:							
7 Direct		\$991,667	\$940,193	\$940,193	\$940,193	\$940,193	
8 Servco		\$168,554	\$178,520	\$178,520	\$178,520	\$178,520	
9 Charged to Affiliates		\$10,357	\$0	\$0	\$0	\$0	
10							
11 Total Customer Funding:		\$3,491,935	\$3,659,057	\$3,659,057	\$3,555,526	\$3,503,760	
12							
13 Company Contributions¹		Jun-2013	Sep-2013	Dec-2013	Mar-2014	Jun-2014	
14 Pension		\$2,004,250	\$2,004,250	\$4,008,500	-	2,066,500	
15							
16 Service Company Allocated Costs		\$687,686	\$922,902	\$922,902	\$922,902	\$922,902	
17 Total Contributions		\$2,691,936	\$2,927,152	\$4,931,402	\$922,902	\$2,989,402	
18							
19 Under/(Over) Funding		\$799,999	\$731,905	(\$1,272,345)	\$2,632,624	\$514,358	
20							
21 Cumulative Under/(Over) Funding		\$2,504,109	\$3,236,014	\$1,963,669	\$4,596,293	\$5,110,651	
22 Five Quarter Average							\$3,482,147
23							
24 Base for Carrying Charge (greater of line 22 or zero)							\$3,482,147
25 Pre-tax WACC							10.05%
26 Carrying Charge							<u>\$349,956</u>

Company Contributions¹-This amount represents dollars funded in the subsequent quarter

Line Notes

- 2(a) Docket No. 4323 Attachment MDL-3-GAS page 36 of 65 line 1(e)
- 2(b)-2(f) Line 2(a) divided by 12 times 3
- 3(a) Docket No. 4323 Attachment MDL-3-GAS page 36 of 65 sum of lines 2(e) thru 5(e)
- 3(b)-3(f) Line 3(a) divided by 12 times 3
- 5(b)-5(d) Docket No. 4339 Exhibit MCS-5, page 2 of 3, Line 11 divided by 12 times 3
- 5(e) (Docket No. 4339 Exhibit MCS-5, page 2 of 3, Line 11 divided by 12 times 1) + (Page 1 of 6 Line 9 divided by 12 times 2
- 5(f) Page 1 of 6, Line 9 divided by 12 times 3
- #REF! Page 1 of 6, Line 10 divided by 12 times 1
- #REF! Page 1 of 6, Line 10 divided by 12 times 3
- 7(b) Docket No. 4431 Schedule WRR-1S, page 3 of 6, Line 8
- 7(c)-7(f) Page 5 of 6, Line 6(a) divided by 4
- 8(b) Docket No. 4431 Schedule WRR-1S, page 3 of 6, Line 9
- 8(c)-8(f) Page 5 of 6, (Line 6(b) plus Line 6(d)) divided by 4
- 9(b) Docket No. 4431 Schedule WRR-1S, page 3 of 6, Line 10
- 9(c)-9(f) Page 5 of 6, Line 6(c) divided by 4
- 11 Sum of Line 2 through Line 9
- 14 Per Company Books
- 16 Line 8
- 17 Sum of line 14 through line 16
- 19 Line 11 minus line 17
- 21 Current year line 19 plus prior year line 21
- 22 Average of column (c) through column (g)
- 24 If line 22 is greater than zero, line 22 if not, zero
- 25 Docket No 4323
- 26 Line 24 times line 25

Narragansett Electric - Gas Operations
PBOP Funding - Carrying Charges
12 Months Ended March 31, 2014

	(a) Dkt 4323	(b) Mar-2013	(c) Jun-2013	(d) Sep-2013	(e) Dec-2013	(f) Mar-2014	(g)
Customer Funding							
1 Base Rate Recovery:							
2 Direct	\$2,470,365	\$752,259	\$617,591	\$617,591	\$617,591	\$617,591	
3 Servco	\$1,852,439	\$348,864	\$463,110	\$463,110	\$463,110	\$463,110	
4							
5 PAM Surcharge Recovery:		(\$127,675)	(\$127,675)	(\$127,675)	(\$137,898)	(\$143,009)	
6 OPEB Capitalized Amount:							
7 Direct		\$448,022	\$411,931	\$411,931	\$411,931	\$411,931	
8 Servco		\$87,291	\$72,342	\$72,342	\$72,342	\$72,342	
9 Charged to Affiliates		\$4,998	\$0	\$0	\$0	\$0	
10							
11 Total Customer Funding:		\$1,513,760	\$1,437,300	\$1,437,300	\$1,427,076	\$1,421,965	
12							
13 Company Contributions¹		Jun-2013	Sep-2013	Dec-2013	Mar-2014	Jun-2014	
14 OPEB		\$621,709	\$621,590	\$621,692	\$621,656	\$764,266	
15							
16 Service Company Allocated Costs		\$87,291	\$72,342	\$72,342	\$72,342	\$72,342	
17		\$1,057,864	\$693,932	\$694,034	\$693,998	\$836,608	
18							
19 Under/(Over) Funding		\$455,896	\$743,368	\$743,266	\$733,078	\$585,357	
20							
21 Cumulative Funding Under/(Over) Funding		\$4,279,752	\$5,023,120	\$5,766,386	\$6,499,464	\$7,084,821	
22 Four Quarter Average							\$5,730,709
23							
24 Base for Carrying Charge (greater of line 22 or zero)							\$5,730,709
25 Pre-tax WACC							10.05%
26 Carrying Charge							<u>\$575,936</u>

Company Contributions¹ -This amount represents dollars funded in the subsequent quarter

Line Notes

- 2(a) Docket No. 4323 Attachment MDL-3-GAS page 36 of 65 line 1(e)
- 2(b)-2(f) Line 2(a) divided by 12 times 3
- 3(a) Docket No. 4323 Attachment MDL-3-GAS page 36 of 65 sum of lines 2(e) thru 5(e)
- 3(b)-3(f) Line 3(a) divided by 12 times 3
- 5(b)-5(d) Docket No. 4339 Exhibit MCS-5, page 3 of 3, Line 11 divided by 12 times 3
- 5(e) (Docket No. 4339 Exhibit MCS-3, page 2 of 3, Line 11 divided by 12 times 1) + (Page 2 of 6 Line 9 divided by 12 times 2
- 5(f) Page 2 of 6, Line 9 divided by 12 times 3
- #REF! Page 2 of 6, Line 10 divided by 12 times 1
- #REF! Page 2 of 6, Line 10 divided by 12 times 3
- 7(b) Docket No. 4431 Schedule WRR-1S, page 4 of 6, Line 8
- 7(c)-7(f) Page 5 of 6, Line 6(a) divided by 4
- 8(b) Docket No. 4431 Schedule WRR-1S, page 4 of 6, Line 9
- 8(c)-8(f) Page 5 of 6, (Line 6(b) plus Line 6(d)) divided by 4
- 9(b) Docket No. 4431 Schedule WRR-1S, page 4 of 6, Line 10
- 9(c)-9(f) Page 5 of 6, Line 6(c) divided by 4
- 11 Sum of Line 2 through Line 9
- 14 Per Company Books
- 16 Line 8
- 17 Sum of line 14 through line 16
- 19 Line 11 minus line 17
- 21 Current year line 19 plus prior year line 21
- 22 Average of column (c) through column (g)
- 24 If line 22 is greater than zero, line 22 if not, zero
- 25 Docket No 4323
- 26 Line 24 times line 25

Narragansett Electric - Gas Operations
Estimated Pension Expense 2014
Fiscal Year Ended March 31, 2014

	(a)	(b)	(c)	(d)	(e)	(a)+(b)+(c)+(d)+(e) (f)
	<u>Company Direct</u>	<u>KeySpan Service Company</u>	<u>FAS87 Costs</u> <u>KeySpan Utility Company</u>	<u>National Grid USA Service Company</u>	<u>Other</u>	<u>Total</u>
1	Actuarial Pension Total Cost	\$8,213,085	\$60,216,595	\$2,666,616	\$47,803,863	
2	Percentage Charged to Company- Total	<u>100.00%</u>	<u>2.29%</u>	<u>0.65%</u>	<u>4.99%</u>	
3	Net Actuarial Charges to Company	\$8,213,085 \$1,	378,960	\$17,333	\$2,385,413	
4						
5	Capital Percentage Charged to Company Labor	<u>45.79%</u>	<u>7.88%</u>	<u>0.00%</u>	<u>25.38%</u>	
6	Total Actuarial Company FAS 87 Costs to Capital	\$3,760,772 \$108,	662	\$0	\$605,418	\$4,474,851
7						
8	O & M Percentage Charged to Company Labor	<u>54.21%</u>	<u>92.12%</u>	<u>100.00%</u>	<u>74.62%</u>	
9	Total Actuarial Company FAS 87 Costs to O&M	\$4,452,313 \$1,	270,298	\$17,333	\$1,779,995	\$7,519,939

10
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	(g)
	FY
	2014
Company Direct	
FAS 87 Cost per Hewitt	\$4,147,825
Fair Value Amortization	\$4,065,260
Company Direct Total Pension Cost	\$8,213,085

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	FY
	2014
KeySpan Corporate Services	
FAS 87 Cost per Hewitt	\$60,216,595
Fair Value Amortization	\$0
KeySpan Corporate Services Total Pension Cost	\$60,216,595

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	FY
	2014
Keyspan Utility Company	
FAS 87 Cost per Hewitt	\$2,666,616
Fair Value Amortization	\$0
Keyspan Utility Serv Co. Total Pension Cost	\$2,666,616

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	FY
	2014
National Grid Service Company	
FAS 87 Cost per Hewitt	\$55,160,718
Fair Value Amortization	(\$7,356,855)
National Grid Service Company Total Pension Cost	\$47,803,863

Line Notes

- 1(a) Line 19(g)
- 1(b) Line 26(g)
- 1(c) Line 33(g)
- 1(d) Line 40(g)
- 2 Docket No. 4323 Schedule MDL-3-GAS page 36 of 65, line 21
- 5 100% - Line 8
- 6 Line 3 times Line 5
- 8 Docket No. 4323 Schedule MDL-3-GAS page 36 of 65, line 22
- 9 Line 3 times Line 8
- 17 2014 Actuary Report
- 18 From Company Books
- 19 Line 17 plus line 18
- 24 2014 Actuary Report
- 25 From Company Books
- 26 Line 24 plus line 25
- 31 2014 Actuary Report
- 32 From Company Books
- 33 Line 31 plus line 32
- 38 2014 Actuary Report
- 39 From Company Books
- 40 Line 38 plus line 39

Narragansett Electric - Gas Operations
Estimated Post-Employment Benefits Other than Pensions (PBOP) Expense 2014
Fiscal Year Ended March 31, 2014

	(a)	(b)	(c)	(d)	(e)	(f)
	Company Direct	KeySpan Service Company	KeySpan Utility Company	National Grid USA Service Company	Other	Total
						\$0
1 Acutrial PBOP Total Cost	\$3,598,437	\$35,475,445	\$1,977,937	\$17,793,826		
2 Percentage Charged to Company- Total	100.00%	2.29%	0.65%	4.99%		
3 Net Actuarial Charges to Company	\$3,598,437	\$812,388	\$12,857	\$887,912		
4						
5 Capital Percentage Charged to Company Labor	45.79%	7.88%	0.00%	25.38%		
6 Total Actuarial Company FAS 106 Costs to Capital	\$1,647,724	\$64,016	\$0	\$225,352		\$1,937,092
7						
8 O & M Percentage Charged to Company Labor	54.21%	92.12%	100.00%	74.62%		
9 Total Company Rate Year FAS 106 Costs to O&M	\$1,950,713	\$748,372	\$12,857	\$662,560	\$0	\$3,374,502

	(g)
	FY
	2014
16 Company Direct	
17 FAS 106 Cost per Hewitt	\$1,808,707
18 Fair Value Amortization	\$1,789,730
19 Company Direct Total POBP Cost	\$3,598,437
20	
	FY
	2014
23 KeySpan Corporate Services	
24 FAS 106 Cost per Hewitt	\$35,475,445
25 Fair Value Amortization	\$0
26 KeySpan Corporate Services Total POBP Cost	\$35,475,445
27	
	FY
	2014
30 KeySpan Utility Services	
31 FAS 106 Cost per Hewitt	\$1,977,937
32 Fair Value Amortization	\$0
33 KeySpan Utility Services Total POBP Cost	\$1,977,937
34	
	FY
	2014
37 National Grid Service Company	
38 FAS 106 Cost per Hewitt	\$19,945,166
39 Fair Value Amortization	(\$2,151,340)
40 National Grid Service Company Total POBP Cost	\$17,793,826

Line Notes

- 1(a) Line 19
1(b) Line 26
1(c) Line 33
1(d) Line 40
2 Docket No. 4323 Schedule MDL-3-GAS page 35 of 65, line 22
5 100% - Line 8
6 Line 3 times Line 5
8 Docket No. 4323 Schedule MDL-3-GAS page 35 of 65, line 23
9 Line 3 times Line 8
17 2014 Actuary Report
18 From Company Books
19 Line 17 plus line 18
24 2014 Actuary Report
25 From Company Books
26 Line 24 plus line 25
31 2014 Actuary Report
32 From Company Books
33 Line 31 plus line 32
38 2014 Actuary Report
39 From Company Books
40 Line 38 plus line 39

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
R.I.P.U.C. DOCKET NO. 4514
DISTRIBUTION ADJUSTMENT CHARGE FILING
WITNESS: WILLIAM R. RICHER
AUGUST 1, 2014

Schedule WRR-2

Actual vs. Forecasted Revenue Requirement Associated with FY 2014 Infrastructure, Safety,
and Reliability (“ISR”) Plan

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
R.I.P.U.C. DOCKET NO. 4514
DISTRIBUTION ADJUSTMENT CHARGE FILING
Schedule WRR-2
Page 1 of 1

The Narragansett Electric Company
d/b/a National Grid
R.I.P.U.C. Docket No. 4380
FY 2014 Gas Infrastructure, Safety,
and Reliability Plan Reconciliation Filing
Attachment WRR-1
Page 1 of 13

The Narragansett Electric Company
d/b/a National Grid
FY 2014 Gas ISR Revenue Requirement Reconciliation
Summary

<u>Line</u> <u>No.</u>		FY 2014 Actuals (a)
1	FY 2014 Revenue Requirement on FY 2014 Actual Incremental Capital Investment	\$969,436
2	FY 2014 Revenue Requirement on FY 2013 Actual Incremental Capital Investment	(\$352,206)
3	FY 2014 Revenue Requirement on FY 2012 Actual Incremental Capital Investment	\$539,314
4	Total Actual FY 2014 Revenue Requirement	<u>\$1,156,544</u>
5	True Up for Capital Repairs Deduction Rate for FY 2013 Revenue Requirement Reconciliation in R.I.P.U.C. Docket No. 4306	\$1,346
6	FY 2014 Property Tax recovery adjustment	<u>\$476,040</u>
7	Total Adjusted FY 2014 Revenue Requirement	<u><u>\$1,633,930</u></u>

Line Notes

- 1 From Page 2 Line 26
- 2 From Page 4 Line 24
- 3 From Page 7 Line 24
- 4 Sum of Lines 1 thorough 3
- 5 From Page 6 Line 3
- 6 From Page 10 Line 49
- 7 Sum of Lines 4 thorough 6