

The Narragansett Electric Company
d/b/a National Grid

Distribution Adjustment Charge Filing

Supplemental Testimony and Schedules of
Ann E. Leary and Melissa A. Little

August 31, 2018

Submitted to:
Rhode Island Public Utilities Commission
RIPUC Docket No. 4846

Submitted by:

nationalgrid



Robert J. Humm
Senior Counsel

August 31, 2018

VIA HAND DELIVERY & ELECTRONIC MAIL

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

**RE: Docket 4846 - 2018 Distribution Adjustment Charge
Supplemental Filing**

Dear Ms. Massaro:

Enclosed please find 10 copies of National Grid's¹ supplement to its August 1, 2018 annual Distribution Adjustment Charge (DAC) filing.

This submission consists of the pre-filed supplemental testimony and schedules of Ann E. Leary and the pre-filed direct testimony and schedule of Melissa A. Little. In her supplemental testimony and schedules, Ms. Leary incorporates updates to the DAC components and provides proposed DAC factors for effect November 1, 2018. Ms. Leary also provides a bill impact analysis of the proposed DAC factors. Ms. Little's supplemental testimony describes National Grid's earnings subject to the Earnings Sharing Mechanism for the 12-month period ending March 31, 2018.

As described in Ms. Leary's testimony, the bill impact of the proposed DAC factors for an average residential heating customer utilizing 845 therms translates into an annual decrease of \$50.35, or 3.6 percent less than the rates currently in effect. The \$50.35 overall decrease is comprised of a \$48.84 decrease in the DAC factor itself and a \$1.51 decrease in the associated Gross Earnings Tax.

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

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

Very truly yours,



Robert J. Humm

Enclosures

cc: Docket 4846 Service List
Leo Wold, Esq.
Al Mancini, Division
John Bell, Division
Bruce Oliver, Division

Testimony of
Ann E. Leary

**THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC DOCKET NO. 4846
SUPPLEMENTAL DISTRIBUTION ADJUSTMENT CHARGE FILING
WITNESS: ANN E. LEARY
AUGUST 31, 2018**

SUPPLEMENTAL DIRECT TESTIMONY

OF

ANN E. LEARY

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**THE NARRAGANSETT ELECTRIC COMPANY
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RIPUC DOCKET NO. 4846**

1 I. Introduction

2 Q. Please state your name and business address.

3 A. My name is Ann E. Leary and my business address is Reservoir Woods, 40 Sylvan Road,
4 Waltham, Massachusetts 02451.

5

6 Q. Have you previously submitted testimony in this proceeding?

7 A. Yes. I submitted direct testimony in this proceeding on August 1, 2018.

8

9 Q. What is the purpose of your supplemental testimony?

10 A. The purpose of my supplemental testimony is to provide an update to the proposed
11 Distribution Adjustment Charge (DAC) factors effective November 1, 2018.
12 Specifically, my supplemental testimony will (1) introduce the Low Income Discount
13 Factor, update the uncollectible percentage, and eliminate the Infrastructure, Safety, and
14 Reliability (ISR) factors in accordance with the Amended Settlement Agreement
15 approved by the Public Utilities Commission (PUC) on August 24, 2018 in Docket Nos.
16 4770 and 4780 (2017 Rate Case); (2) revise the System Pressure factor; (3) update the
17 2018-19 forecast; (4) address the Earnings Sharing Mechanism (ESM) factor; (5) revise
18 the Environmental Response Cost factor; (6) address the Service Quality Performance
19 factor; (7) provide the calculation of the proposed base DAC factors, which will be a
20 component of the overall DAC factors, including the fiscal year (FY) 2018 ISR
21 Reconciliation factors that are proposed to become effective November 1, 2018; and (8)

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1 present the impact on customer bills resulting from the proposed DAC factors. This
2 filing is submitted pursuant to the Company's Distribution Adjustment Clause in its
3 tariff, RIPUC NG-GAS No. 101, Section 3, Schedule A.

4

5 **Q. Are you sponsoring any updated schedules with your supplemental testimony?**

6 A. Yes. I am sponsoring the following updated schedules that accompany my supplemental
7 testimony:

8	Schedule AEL-1S	Summary of DAC Factors
9	Schedule AEL-2S	System Pressure Factor
10	Schedule AEL-3S	Advanced Gas Technology Factor
11	Schedule AEL-4S	Environmental Response Cost Factor
12	Schedule AEL-5S	Pensions and Postretirement Benefits Other than Pension Factor
13	Schedule AEL-6S	Arrearage Management Adjustment Factor
14	Schedule AEL-7S	Revenue Decoupling Adjustment Factor
15	Schedule AEL-8S	ISR Reconciliation Factors
16	Schedule AEL-10S	Reconciliation Factor
17	Schedule AEL-12S	Earnings Sharing Factor
18	Schedule AEL-13	Low Income Discount Recovery Factor
19	Schedule AEL-14	Bill Impact Analysis

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1 For ease of reference, I have also included all of my other schedules as part of this
2 supplemental filing, although I have not made any changes to them in this submission.

3

4 **II. Updated DAC Components**

5 **Q. What are the updates to the DAC contained in this supplemental filing?**

6 A. This supplemental filing reflects (1) the changes to the DAC resulting from the 2017 Rate
7 Case; (2) a revision to the August 1, 2018 proposed System Pressure factor resulting from
8 further discussions with the Division of Public Utilities and Carriers (Division) and its
9 consultant to clarify system pressure costs; (3) a minor update to the 2018-19 forecast
10 used to compute the DAC; (4) an update to the Environmental Response costs in
11 Schedule AEL-4S; (5) updates to the DAC Reconciliation component to include actual
12 data for July 2018, as presented in Schedule AEL-8S and Schedule AEL-10S; (6) an
13 update regarding the Company's Service Quality Plan performance and the need for a
14 Service Quality Performance factor; and (7) the inclusion of the Company's FY 2018
15 Earnings Report and need for an ESM factor. The proposed DAC factors are calculated
16 inclusive of the foregoing updates, which are then combined with the FY 2018 ISR Plan
17 Reconciliation factors to derive the proposed overall DAC factors per rate class to take
18 effect November 1, 2018. The proposed DAC factors are summarized in
19 Schedule AEL-1S.

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1 **Q. Please describe the updates to the calculation of the DAC as a result of the 2017**
2 **Rate Case.**

3 A. In accordance with the Amended Settlement Agreement in the 2017 Rate Case, approved
4 by the PUC on August 24, 2018, my supplemental testimony reflects the following
5 changes to the proposed DAC effective November 1, 2018:

6 (1) Updated the uncollectible percentage by which the components of the DAC
7 are adjusted to 1.91 percent, from 3.18 percent as set in the Company's
8 previous rate case in Docket No. 4323. This revision is set forth in Schedule
9 AEL-1S of this filing.

10
11 (2) Eliminated the FY19 ISR Plan factors because the costs presented in the
12 annual FY19 ISR Plan filing are now included in base rates.

13
14 (3) Included a new Low Income Discount Recovery Factor, as presented in
15 Schedule AEL-13.

16
17 **Q. What is the Low Income Discount Recovery Factor component of the DAC?**

18 A. The Low Income Discount Recovery Factor (LIDRF) will be determined annually based
19 upon the total estimated amount of the low income discount applied to eligible
20 customers' bills receiving service on Rates 11 and 13. The estimated discount will be 25
21 percent of the forecasted Rates 11 and 13 annual billing units multiplied by the Rates 11

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1 and 13 customer charge and the sum of the Base Distribution Charges, the Distribution
2 Adjustment Charges, the Energy Efficiency Charges, and the Gas Cost Recovery Charges
3 expected to be in effect during the period. For those customers receiving benefits
4 through Medicaid, General Public Assistance, and/or the Family Independence Program,
5 the estimated discount will be an additional 5 percent, for a total discount of 30 percent of
6 the forecasted Rates 11 and 13 annual billing units multiplied by the Rates 11 and 13
7 customer charge and the sum of the Base Distribution Charges, the Distribution
8 Adjustment Charges, the Energy Efficiency Charges, and the Gas Cost Recovery Charges
9 expected to be in effect during the period. This estimate of the discount is used to
10 determine the amount to be reflected in the DAC on a prospective basis. The amount will
11 be divided by the estimated therms to be delivered by the Company to all customers,
12 excluding customers on Rates 11 and 13.

13

14 **Q. How will the LIDRF be reconciled?**

15 A. The revenue billed through the LIDRF will be subject to reconciliation against the actual
16 bill discounts provided during the 12 month reconciliation period for which the LIDRF is
17 in effect. Any over- or under-recovery of the actual discount provided will be reflected in
18 the Reconciliation factor. For purposes of this reconciliation, the Company will
19 accumulate the actual discounts provided to customers on Rates 11 and 13 and the
20 revenue billed through the LIDRF, and will accrue interest on a monthly basis on the
21 difference between such amounts at the interest rate paid on the Bank of America prime

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1 rate less 200 basis points. Should any balance remain subsequent to the recovery of the
2 over- or under-recovery balance as described above, the Company will reflect, as an
3 adjustment in the then-current reconciliation period, the amount of the remaining balance.

4

5 **Q. What is the Company proposing for the LIDRF for November 1, 2018?**

6 A. The Company is proposing a LIDRF of \$0.0138 per therm, as shown in Schedule
7 AEL-13. The proposed LIDRF is calculated by dividing the estimated discount provided
8 to customers on Rates 11 and 13 by the forecasted throughput of 382,978,622 therms for
9 the 12 months beginning November 1, 2018.

10

11 **Q. In your initial DAC testimony submitted on August 1, 2018, you described the**
12 **System Pressure component of the DAC. Is the Company proposing any changes to**
13 **the derivation of the System Pressure factor?**

14 A. Yes. The Company is proposing to revise the calculation of its System Pressure factor
15 based upon recent discussions with the Division and the Division's consultant. In Docket
16 No. 4708, the Company and the Division agreed to allocate 100 percent of the costs
17 associated with the Company's Crary Street Gate Station to the DAC¹ because the
18 operation of the Crary Street Gate Station, which commenced on July 17, 2017,
19 eliminated the Company's need to rely on liquefied natural gas (LNG) to maintain
20 pressure in its distribution system. Therefore, as LNG was no longer required for system

¹ See the Company's Reply Comments in Docket No. 4708 dated October 23, 2017.

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1 pressure due to the operation of the Crary Street Gate Station, the Company revised its
2 prior System Pressure calculation² to include 100 percent of the costs associated with the
3 Crary Street Gate Station. However, upon further discussions among Company
4 personnel, the Division, and the Division's consultant, the Company is now proposing to
5 eliminate the costs associated with Crary Street Gate Station from its System Pressure
6 factor effective November 1, 2018.

7

8 **Q. Why did the Company and Division agree to this change in the costs associated with**
9 **System Pressure?**

10 A. During a recent discussion among the Company, the Division, and the Division's
11 consultant, the parties re-examined the basis for allocating the costs associated with the
12 Crary Street Gate Station to the System Pressure factor. The group first reviewed the
13 initial intent of the System Pressure factor, which was established when the Company
14 unbundled its rates approximately 20 years ago. During the unbundling process, the
15 Company segregated costs into two major categories, gas supply-related costs and
16 distribution-related costs. Although the LNG facilities were built to supply gas to
17 customers during periods of peak demand, the Company recognized that because the
18 facilities were located within the Company's distribution system, the Company could
19 utilize the LNG facilities to maintain pressure in the Company's distribution system.
20 Therefore, it was appropriate to allocate a portion of such costs to the distribution

² Pursuant to the Settlement Agreement in Docket No. 4339 (the 2012 Settlement Agreement), the Company had allocated 75.77 percent of the annual lease payments for the National Grid LNG (NGLNG) tank to System Pressure.

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1 category (i.e., the DAC) and recover the costs from all sales and firm transportation
2 customers. In 2012, the Company and the Division further agreed that the Company
3 would allocate 75.77 percent of the payments from the NGLNG lease agreement to all
4 future DAC filings. In 2017, when the Crary Street Gate Station became operational,
5 thereby eliminating the need to use the NGLNG facility to maintain system pressure, the
6 Company attempted to abide by the intent of the 2012 Settlement Agreement and
7 proposed to allocate 75.77 percent of the costs associated with the Crary Street Gate
8 Station to the System Pressure factor. The Division later recommended, and the
9 Company agreed, to allocate 100 percent of the costs associated with the Crary Street
10 Gate Station to System Pressure. However, leading up to this year's DAC filing, the
11 parties continued to review the costs incurred to maintain system pressure to determine
12 the extent to which such costs warrant incorporation into the System Pressure factor. The
13 parties recognized that all Company gate stations provide pressure support to the
14 Company's distribution system, so it would be inappropriate to single out the costs of
15 only one gate station (the Crary Street Gate Station) to assign to System Pressure. Gate
16 stations are the locations where gas is delivered from interstate pipelines into the
17 Company's distribution system and the associated quantities of gas delivered are
18 recorded. While providing sources of gas supply for the distribution system, gate stations
19 also provide pressure support. The Company never intended to identify the portion of the
20 costs associated with gate stations that are associated solely with system pressure.
21 Therefore, as the underlying intent of the System Pressure factor was to identify LNG-

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1 related costs associated with maintaining system pressure, and the costs associated with
2 the Crary Street Gate Station were not LNG-related, the Company and the Division have
3 agreed that the Company would no longer assign costs of the Crary Street Gate Station to
4 the DAC. Instead, the Company would recover the costs associated with the Crary Street
5 Gate Station through the Gas Cost Recovery (GCR) factors in the same way it recovers
6 the costs for all other gate stations that serve the Company.

7

8 **Q. On July 30, 2018, the Company provided the Division further clarification of the**
9 **costs incurred to maintain system pressure to other parts of the Rhode Island**
10 **distribution system. Please summarize this information.**

11 A. The Company informed the Division that the Company requires 17,120 dekatherms from
12 its Exeter LNG facility to maintain system pressure in a normal winter, at an estimated
13 annual cost of approximately \$100,000.

14

15 **Q. Did the Company and the Division discuss whether such costs should be assigned to**
16 **the System Pressure factor?**

17 A. Yes. Based on their discussion, the Company and the Division agreed not to reflect this
18 small amount in the System Pressure factor because such costs would result in a factor of
19 less than \$0.0002 per therm, which, for a typical Residential Heating customer, equates to
20 only a \$0.25 per year reallocation from the GCR factor to the DAC.

21

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1 **Q. Is the Company proposing to eliminate the System Pressure factor from the DAC?**

2 A. No. The Company is proposing to maintain the System Pressure component of the DAC
3 and will determine each year whether it is necessary to recover any costs through the
4 System Pressure factor.

5

6 **Q. What cost implications result from the proposed revision to the System Pressure**
7 **factor?**

8 A. The Company anticipates a decrease to the DAC of approximately \$3.2 million as a result
9 of the proposed change to System Pressure costs by removing the costs of the Crary
10 Street Gate Station reflected in the Company's August 1, 2018 DAC filing.

11

12 **Q. As a result of the updates to the System Pressure component of the DAC, what is the**
13 **Company proposing for the System Pressure factor for November 1, 2018?**

14 A. The Company is not proposing a System Pressure factor for November 1, 2018, as shown
15 in Schedule AEL-2S.

16

17 **Q. Please describe the changes to the 2018-19 forecast.**

18 A. The Company has updated the preliminary 2018-19 forecast reflected in the August 1,
19 2018 filing. This revision increased the total forecast by 18,426 dekatherms, or 0.05
20 percent. In addition to updating the schedules that follow, the Company updated the
21 forecast reflected in Schedules AEL-3S, AEL-5S, Schedule AEL-6S, and Schedule

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1 AEL-7S. This minor revision to the forecast did not change any of the factors reflected
2 in theses schedules.

3

4 **Q. What is the Company proposing for the ESM factor for November 1, 2018?**

5 A. The Company is not proposing an ESM factor this year, as shown in Schedule AEL-12S.
6 The Company's Gas Earnings Report for the 12 months ending March 31, 2018, which
7 the Company submitted on August 31, 2018 in Docket No. 4846, reflects a return on
8 equity below the earnings sharing threshold. The Company's earnings subject to the
9 ESM for the 12-month period ending March 31, 2018 is described in more detail in the
10 pre-filed direct testimony of Company witness Melissa A. Little as part of this
11 supplemental DAC filing.

12

13 **Q. What revision did the Company make to the Environmental Response Cost factor?**

14 A. The Company has updated the cost of Insurance Recovery in the Environmental
15 Response Cost factor on Schedule AEL-4S, Page 4, Line 14, Column (b) from \$34,244 to
16 \$16,994. As a result, the cost in excess of the allowance in base distribution rates on
17 Schedule AEL-4S, Page 1, Line 15 decreased from \$1,088,331 to \$1,086,606. This
18 minor update, as well as the change to the forecasted throughput mentioned earlier, did
19 not change the proposed Environmental Response Cost factor of \$0.0027 per therm filed
20 on August 1, 2018.

21

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1 **Q. What other updates were made in the DAC Reconciliation adjustment factors?**

2 A. The Company updated the DAC Reconciliation factors to reflect actual revenue for July
3 2018 for the non-base rate/gas year reconciling components, as shown in Schedule AEL-
4 10S, Pages 2 through 8. The proposed Reconciliation factor applicable to all rate classes
5 results in a credit of \$0.0007 per therm, while the proposed Reconciliation factor for the
6 Large and Extra Large rate classes is a credit of \$0.0015 per therm.³ Despite the updates
7 to the actual revenues and the forecasted throughput mentioned earlier, the credits remain
8 the same as those proposed on August 1, 2018. As described in my initial testimony filed
9 on August 1, 2018, only the Large and Extra Large rate classes are subject to the base
10 rate Reconciliation component.

11

12 **Q. How does the Company determine the proposed DAC factors that will be billed to**
13 **customers?**

14 A. As shown on Schedule AEL-1S, Section 1, Line 15, the proposed base DAC factors
15 differ for the Residential and Small and Medium Commercial and Industrial (C&I) rate
16 classes as compared to the Large and Extra Large rate classes. As explained in my
17 August 1, 2018 testimony, the Company develops a proposed DAC factor for the
18 Residential and Small and Medium C&I rate classes to include the Revenue Decoupling
19 Adjustment factor, which is applicable only to these customer groups. Meanwhile, the
20 Company develops a separate factor for the Large and Extra Large rate classes to

³ The proposed Reconciliation factors in the August 1, 2018 DAC filing reflected a credit of \$0.0007 per therm for all rate classes and a credit of \$0.0015 per therm for the Large and Extra Large rate classes.

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1 accommodate the reconciliation of the base rate-related items, which are the Advanced
2 Gas Technology, Low Income Assistance Program, and Environmental Response Costs
3 factors. In addition, the base DAC factors for the Residential Heating and Non Heating
4 rate classes will also differ from the Residential Heating and Non Heating Low Income
5 rate classes because the low income rate classes exclude the LIDRF. These factors are
6 combined with the proposed FY 2018 ISR Reconciliation factors per rate class to arrive
7 at the proposed DAC factors to be billed to customers, as shown in Section 2 of Schedule
8 AEL-1S.

9

10 **Q. In your initial DAC testimony submitted on August 1, 2018, you explained that the**
11 **Company had requested relief from a penalty associated with the Company's FY**
12 **2018 Annual Service Quality Report filed on July 31, 2018. Has the PUC ruled on**
13 **the Company's request for relief from the penalty?**

14 A. Yes. On August 9, 2018, the PUC approved the Company's request for relief from the
15 penalty under the Gas Service Quality Plan as a result of an exogenous and/or force
16 majeure event. Accordingly, the Company has not included a Service Quality
17 Performance factor in this filing.

18

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1 **III. Final Proposed DAC Factors and Bill Impacts**

2 **Q. What are the final proposed DAC factors?**

3 A. The final proposed DAC factors by rate class, including the base DAC factors and the FY
4 2018 ISR Reconciliation factors, are set forth in Schedule AEL-1S, Section 2,
5 Column (g).

6

7 **Q. How was the impact on customer bills calculated?**

8 A. The Company's bill impact analysis presents the impact solely from the proposed DAC
9 factors and keeps all other rates and charges at their current levels. To isolate the impact
10 of the proposed DAC factors, the current Energy Efficiency Program Charges and the
11 base distribution rates approved in the 2017 Rate Case are assumed to be in effect for the
12 year November 2018 through October 2019. The GCR factors are also held constant at
13 the rates that are currently in effect. The combined impact of the proposed DAC factors
14 and GCR rates are presented in the Company's annual GCR filing, Docket No. 4872,
15 submitted today under separate cover.

16

17 **Q. What is the impact of the proposed November 1, 2018 DAC factors on customer
18 bills?**

19 A. Schedule AEL-14 sets forth the annual average dollar impact due to the proposed
20 changes in the DAC factors on customers' bills at various levels of consumption for the
21 Company's rate classes. For an average Residential Heating customer utilizing 845

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1 therms, the impact of the proposed DAC factor results in an annual decrease of \$50.35 (a
2 decrease of \$48.84 in the DAC factor itself and \$1.51 in Gross Earnings Tax), or 3.6
3 percent.

4

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

6 A. Yes.

Schedules of
Ann E. Leary

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SCHEDULES

Schedules of Ann E. Leary

Schedule AEL-1S	Summary of DAC Factors
Schedule AEL-2S	System Pressure Factor
Schedule AEL-3S	Advanced Gas Technology Factor
Schedule AEL-4S	Environmental Response Cost Factor
Schedule AEL-5S	Pensions and Postretirement Benefits Other than Pension Factor
Schedule AEL-6S	Arrearage Management Adjustment Factor
Schedule AEL-7S	Revenue Decoupling Adjustment Factor
Schedule AEL-8S	ISR Reconciliation Factors
Schedule AEL-10S	Reconciliation Factor
Schedule AEL-12S	Earnings Sharing Factor
Schedule AEL-13	Low Income Discount Recovery Factor
Schedule AEL-14	Bill Impact Analysis

**Schedule
AEL-1S**

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**Schedule AEL-1S
Summary of DAC Factors**

National Grid - RI Gas
Summary of DAC Factors
Effective November 1, 2018

Section 1: DAC factor (not including annual ISR component) November 1, 2018 - October 31, 2019

<u>Description</u>	<u>Reference</u>	<u>Amount</u>	<u>Factor</u>		
			<u>Residential/ Small/ Medium C&I</u>	<u>Large/ X-Large</u>	<u>Residential Low Income</u>
			(a)	(b)	(c)
(1) System Pressure (SP)	AEL-2S	\$0	\$0.0000	\$0.0000	\$0.0000
(2) Advanced Gas Technology Program (AGT)	AEL-3S	\$0	\$0.0000	\$0.0000	\$0.0000
(3) Environmental Response Cost Factor (ERCF)	AEL-4S	\$1,086,606	\$0.0027	\$0.0027	\$0.0027
(4) Pension Adjustment Factor (PAF)	AEL-5S	(\$6,239,962)	(\$0.0157)	(\$0.0157)	(\$0.0157)
(5) Arrearage Management Adjustment Factor (AMAF)	AEL-6S	\$80,079	\$0.0002	\$0.0002	\$0.0002
(6) Reconciliation Factor (R)	AEL-10S	(\$465,025)	(\$0.0007)	(\$0.0022)	(\$0.0007)
(7) Service Quality Factor (SQP)		\$0	\$0.0000	\$0.0000	\$0.0000
(8) Earnings Sharing Mechanism (ESM)	AEL-12S	\$0	\$0.0000	\$0.0000	\$0.0000
(9) Low Income Discount Recovery Factor (LIDRF)	AEL-13	<u>\$5,288,107</u>	<u>\$0.0138</u>	<u>\$0.0138</u>	<u>n/a</u>
(10) Subtotal	Sum [(1):(10)]	(\$250,196)	\$0.0003	(\$0.0012)	(\$0.0135)
(11) Uncollectible Percentage	Dkt 4770	<u>1.91%</u>	<u>1.91%</u>	<u>1.91%</u>	<u>1.91%</u>
(12) DAC factors grossed up for uncollectible	(11) ÷ [1-(12)]	(\$255,068)	\$0.0003	(\$0.0012)	(\$0.0137)
(13) Revenue Decoupling Adjustment (RDA)	AEL-7S	(\$5,661,116)	(\$0.0200)	\$0.0000	(\$0.0200)
(14) Revenue Decoupling Adjustment Reconciliation	AEL-10S	<u>\$107,619</u>	<u>\$0.0003</u>	<u>\$0.0000</u>	<u>\$0.0003</u>
(15) DAC factor	(13)+(14)+(15)	(\$5,808,565)	<u>(\$0.0194)</u>	<u>(\$0.0012)</u>	<u>(\$0.0334)</u>

Section 2: DAC factors including annual ISR component

ISR Reconciliation w/o uncollectible (therms) (a)	Uncollectible Percentage (b)	ISR Reconciliation* (therms) (c) = (a) x [1+(b)]	Base DAC Component* (therms) (d)	DAC Component Subtotal Rates* (therms) (e) = (c) + (d)	ISR Component (therms) (f)	November 1, 2018 DAC Rates* (therms) (g)	
(16) Res-NH	(\$0.0133)	1.91%	(\$0.0136)	(\$0.0194)	(\$0.0330)	n/a	(\$0.0330)
(17) Res-NH-LI	(\$0.0133)	1.91%	(\$0.0136)	(\$0.0334)	(\$0.0470)	n/a	(\$0.0470)
(18) Res-H	(\$0.0056)	1.91%	(\$0.0057)	(\$0.0194)	(\$0.0251)	n/a	(\$0.0251)
(19) Res-H-LI	(\$0.0056)	1.91%	(\$0.0057)	(\$0.0334)	(\$0.0391)	n/a	(\$0.0391)
(20) Small	(\$0.0140)	1.91%	(\$0.0143)	(\$0.0194)	(\$0.0337)	n/a	(\$0.0337)
(21) Medium	(\$0.0052)	1.91%	(\$0.0053)	(\$0.0194)	(\$0.0247)	n/a	(\$0.0247)
(22) Large LL	(\$0.0081)	1.91%	(\$0.0083)	(\$0.0012)	(\$0.0095)	n/a	(\$0.0095)
(23) Large HL	(\$0.0066)	1.91%	(\$0.0067)	(\$0.0012)	(\$0.0079)	n/a	(\$0.0079)
(24) XL-LL	(\$0.0010)	1.91%	(\$0.0010)	(\$0.0012)	(\$0.0022)	n/a	(\$0.0022)
(25) XL-HL	(\$0.0006)	1.91%	(\$0.0006)	(\$0.0012)	(\$0.0018)	n/a	(\$0.0018)

*Factors Include Uncollectible Allowance

- (a) AEL-8S
- (b) Per Docket 4770
- (d) Section 1, Line (16)

**Schedule
AEL-2S**

**THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC DOCKET NO. 4846
SUPPLEMENTAL DISTRIBUTION ADJUSTMENT CHARGE FILING
WITNESS: ANN E. LEARY**

Schedule AEL-2S
System Pressure Factor

**National Grid - RI Gas
System Pressure Factor
Effective November 1, 2018**

(1)	Nov-17	\$0.00
(2)	Dec-17	\$0.00
(3)	Jan-18	\$0.00
(4)	Feb-18	\$0.00
(5)	Mar-18	\$0.00
(6)	Apr-18	\$0.00
(7)	May-18	\$0.00
(8)	Jun-18	\$0.00
(9)	Jul-18	\$0.00
(10)	Aug-18	\$0.00
(11)	Sep-18	\$0.00
(12)	Oct-18	<u>\$0.00</u>
(13)		
(14)	Total	\$0.00
(15)	System Balancing Factor	0.00%
(16)	LNG GCR Costs allocated to DAC	\$0.00
(17)	Firm Throughput	39,687,032 dths
(18)	System Pressure Factor per dekatherm	\$0.0000 per dth
(19)	System Pressure Factor per therm	\$0.0000 per therm
(14)	Sum of Lines (1) to (12)	
(16)	Line (14) x Line (15)	
(17)	Company Forecast	
(18)	Line (16) ÷ Line (17)	
(19)	Line (18) ÷ 10, truncated to 4 decimal places	

**Schedule
AEL-3S**

**THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC DOCKET NO. 4846
SUPPLEMENTAL DISTRIBUTION ADJUSTMENT CHARGE FILING
WITNESS: ANN E. LEARY**

Schedule AEL-3S
Advanced Gas Technology Program Factor

National Grid - RI Gas
AGT Factor
Effective November 1, 2018

(1)	AGT collected through DAC	\$0
(2)	Firm Throughput	39,687,032 dths
(3)	AGT Factor per dekatherm	\$0.0000 per dth
(4)	AGT Factor per therm	\$0.0000 per therm

- (2) Company Forecast
(3) Line (1) ÷ Line (2)
(4) Line (3) ÷ 10, truncated to 4 decimal places

National Grid - RI Gas
AGT Account Balance and Interest Calculation

	<u>Apr-17</u>	<u>May-17</u>	<u>Jun-17</u>	<u>Jul-17</u>	<u>Aug-17</u>	<u>Sep-17</u>	<u>Oct-17</u>	<u>Nov-17</u>	<u>Dec-17</u>	<u>Jan-18</u>	<u>Feb-18</u>	<u>Mar-18</u>
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)
(1) Beginning Balance	\$1,381,233	\$1,413,407	\$1,432,927	\$1,445,587	\$1,455,930	\$964,869	\$674,757	\$686,456	\$799,598	\$833,691	\$880,586	\$929,066
(2) Rebate Disbursements												
(3) Other Disbursements												
(4) Sub-total Disbursements												
(5) Forecasted Throughput from Docket 4323 (dth) Res H, NH, Small & Medium C&I Classes	3,826,443 992,288 2,834,155	2,321,424 720,015 1,601,409	1,505,558 553,276 952,282	1,230,159 530,577 699,582	1,063,069 548,615 585,919	1,175,941 477,149 627,326	1,391,267 587,911 803,356	2,407,560 770,135 1,063,665	4,054,661 1,163,568 1,637,426	5,577,080 1,264,681 2,990,996	5,765,550 1,195,553 4,413,512	5,359,362 9,867,232 4,500,868
(6) Base Rates Revenue L/XL Classes	\$8,344 \$23,831 \$32,175	\$6,054 \$13,465 \$19,520	\$4,652 \$8,907 \$12,560	\$4,461 \$5,882 \$10,344	\$4,012 \$4,927 \$8,939	\$4,613 \$5,275 \$9,898	\$4,943 \$6,755 \$11,699	\$6,476 \$13,768 \$20,244	\$8,944 \$25,150 \$34,994	\$9,784 \$37,111 \$46,895	\$10,634 \$37,846 \$48,480	\$82,269 \$25,013 \$45,064
(7) Res H, NH, Small & Medium C&I Classes												
(8) Sub-total Revenue												
(9) AGT Balance Refund												
(10) AGT Balance Reconciliation												
(11) AGT Interest Refund												
(12) AGT Interest Refund												
(13) Ending Balance		\$1,413,407	\$1,432,927	\$1,445,587	\$1,455,930	\$964,869	\$674,757	\$686,456	\$799,598	\$833,691	\$880,586	\$929,066
Interest Calculation												
(14) Month's Average Balance		\$1,397,320	\$1,423,167	\$1,439,257	\$1,450,758	\$1,210,400	\$819,813	\$680,606	\$743,027	\$816,645	\$857,139	\$904,826
(15) Bk America Rate less 200 Basis Points		2.00%	2.00%	2.13%	2.25%							
(16) Calculated Interest (not applied to balance)		\$2,297	\$2,417	\$2,514	\$2,772	\$2,313	\$1,516	\$1,301	\$1,374	\$1,647	2.38%	2.50%
(17) Adjustment to remove the interest that was inadvertently applied to the AGT Fund ending balance in Docket No. 4573, 4634, and 4708.												
(18) Lines [(1)-(4)] + (9) + (10)												
(19) Lines [(1)+(13)] ÷ 2												
(20) Per RIPUC NG-Gas No. 101, Section 3, Schedule A												
(21) Column (m), total interest refunded to customers at AEL-10S, Page 1, line 10 per Docket 4339 Settlement of Issues												

- (1) Column (a) Ending Balance per Docket 4708, AEL-3, Page 2 of 2
- (2) Column (c): Rebate to Toray Plastics of America. Column (f): Rebate to Aspen Aerogels
- (4) Line (2) + Line (3)
- (5) Rate year forecast as presented in Docket 4323
- (6) Large and Extra Large C&I throughput from Line (5) x \$0.0084 (AGT base rate). Actual revenue for these rate classes are reconciled through the Reconciliation Factor for Large and Extra Large C&I.
- (8) Res H, NH, Small & Medium throughput from Line (5) x \$0.0084 (AGT base rate). Actual revenue for these rate classes are reconciled through the Revenue Decoupling Mechanism (RDM).
- (9) Line (7) + Line (8)
- (12) Adjustment to remove the interest that was inadvertently applied to the AGT Fund ending balance in Docket No. 4573, 4634, and 4708.
- (13) Lines (1) - (4) + (9) + (10)
- (14) Lines [(1)+(13)] ÷ 2
- (15) Per RIPUC NG-Gas No. 101, Section 3, Schedule A
- (16) Column (m), total interest refunded to customers at AEL-10S, Page 1, line 10 per Docket 4339 Settlement of Issues

**Schedule
AEL-4S**

**THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC DOCKET NO. 4846
SUPPLEMENTAL DISTRIBUTION ADJUSTMENT CHARGE FILING
WITNESS: ANN E. LEARY**

Schedule AEL-4S
Environmental Response Cost Factor

National Grid - RI Gas
Environmental Response Cost (ERC) Factor
Effective November 1, 2018

	<u>Description</u>	<u>Reference</u>	<u>Amount</u>
(1)	Amortization of Pre-FY2009 expenses	Page 3, Col K, Ln (2)	\$0
(2)	Amortization of FY2009 expenses - year 10 of 10	Page 3, Col K, Ln (4)	\$96,579
(3)	Amortization of FY2010 expenses - year 9 of 10	Page 3, Col K, Ln (6)	\$208,826
(4)	Amortization of FY2011 expenses - year 8 of 10	Page 3, Col K, Ln (8)	\$452,295
(5)	Amortization of FY2012 expenses - year 7 of 10	Page 3, Col K, Ln (10)	\$558,394
(6)	Amortization of FY2013 expenses - year 6 of 10	Page 3, Col K, Ln (12)	\$136,852
(7)	Amortization of FY2014 expenses - year 5 of 10	Page 3, Col K, Ln (14)	\$300,824
(8)	Amortization of FY2015 expenses - year 4 of 10	Page 3, Col K, Ln (16)	\$112,908
(9)	Amortization of FY2016 expenses - year 3 of 10	Page 3, Col K, Ln (18)	\$111,792
(10)	Amortization of FY2017 expenses - year 2 of 10	Page 3, Col K, Ln (20)	\$303,756
(11)	Amortization of FY2018 expenses - year 1 of 10	Page 3, Col K, Ln (22)	<u>\$114,380</u>
(12)		Subtotal	\$2,396,606
(13)	Base Rate Environmental Cost Allowance		\$1,310,000
(15)	Cost in excess of Allowance		\$1,086,606
(16)	Firm Throughput		39,687,032 dths
(17)	Environmental Response Cost Factor per dekatherm		\$0.0270 per dth
(18)	Environmental Response Cost Factor per therm		\$0.0027 per therm
(13)	Sum of Lines (1) to (11)		
(14)	Docket 4323		
(15)	Line (13) - Line (14)		
(16)	Company Forecast		
(17)	Line (15) ÷ Line (16)		
(18)	Line (17) ÷ 10, truncated to 4 decimal places		

National Grid - RI Gas										
Environmental Response Cost (ERC) Factor										
ERC Amortization Schedule										
	FY2009 (a)	FY2010 (b)	FY2011 (c)	FY2012 (d)	FY2013 (e)	FY2014 (f)	FY2015 (g)	FY2016 (h)	FY2017 (i)	FY2018 (j)
ENVIRONMENTAL AMORTIZATION										
1) FY 2002-FY 2008 NET ERC Costs Net of Insurance	\$5,793,300	10	\$579,331	\$579,331	\$579,333	(\$671,697)	(\$70,427)	(\$23,134)	(\$36,802)	(\$80,405)
2) Amortization Period (years)										(\$4,580)
3) FY 2009 NET ERC Costs Net of Insurance	\$965,754	10	\$96,575	\$96,575	\$96,575	\$96,575	\$96,575	\$96,575	\$96,575	\$96,575
4) Amortization Period (years)										
5) FY 2010 NET ERC Costs Net of Insurance	\$2,088,264	10		\$208,826	\$208,826	\$208,826	\$208,826	\$208,826	\$208,826	\$208,826
6) Amortization Period (years)										
7) FY 2011 NET ERC Costs Net of Insurance	\$4,522,947	10		\$452,295	\$452,295	\$452,295	\$452,295	\$452,295	\$452,295	\$452,295
8) Amortization Period (years)										
9) FY 2012 NET ERC Costs Net of Insurance	\$5,583,936	10		\$558,394	\$558,394	\$558,394	\$558,394	\$558,394	\$558,394	\$558,394
10) Amortization Period (years)										
1) FY 2013 NET ERC Costs Net of Insurance	\$1,368,521	10			\$136,852	\$136,852	\$136,852	\$136,852	\$136,852	\$136,852
2) Amortization Period (years)										
3) FY 2014 NET ERC Costs Net of Insurance	\$3,008,237	10				\$300,824	\$300,824	\$300,824	\$300,824	\$300,824
4) Amortization Period (years)										
5) FY 2015 NET ERC Costs Net of Insurance	\$1,129,080	10					\$112,908	\$112,908	\$112,908	\$112,908
6) Amortization Period (years)										
7) FY 2016 NET ERC Costs Net of Insurance	\$1,117,923	10								
8) Amortization Period (years)										
9) FY 2017 NET ERC Costs Net of Insurance	\$3,037,565	10								
10) Amortization Period (years)										
1) FY 2018 NET ERC Costs Net of Insurance	\$1,143,802	10								
2) Amortization Period (years)										
3) Amortization Expense sub-total										
4) ENVIRONMENTAL REMEDIATION COSTS										
5) Beginning Balance	\$5,793,300	\$6,759,054	\$8,847,318	\$13,370,265	\$18,954,201	\$20,322,722	\$23,330,959	\$24,460,039	\$25,577,962	\$28,615,527
6) Environmental Expenditures, net of Insurance	\$965,754	\$2,088,264	\$4,522,947	\$5,583,936	\$1,368,521	\$3,008,237	\$1,129,080	\$1,117,923	\$3,037,565	\$1,143,802
7) Ending Balance	\$6,759,054	\$8,847,318	\$13,370,265	\$18,954,201	\$20,322,722	\$23,330,959	\$24,460,039	\$25,577,962	\$28,615,527	\$29,759,329
8) ACCUMULATED ENVIRONMENTAL REMEDIATION										
9) Beginning Balance	\$4,363,019	\$4,942,350	\$5,618,256	\$6,502,988	\$7,840,017	\$8,484,410	\$9,866,925	\$11,597,557	\$13,427,429	\$15,325,490
0) Amortization Expense (1)	\$579,331	\$675,906	\$884,732	\$1,337,029	\$644,393	\$1,382,515	\$1,730,632	\$1,829,872	\$1,898,061	\$2,277,642
1) Ending Balance										
2) NET ENVIRONMENTAL REMEDIATION COSTS	\$1,816,704	\$3,229,062	\$6,867,277	\$11,114,184	\$11,838,312	\$13,464,034	\$17,862,482	\$12,150,533	\$13,290,037	\$12,156,197

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

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

	FY2020 (l)	FY2021 (m)	FY2022 (n)	FY2023 (o)	FY2024 (p)	FY2025 (q)	FY2026 (r)	FY2027 (s)	FY2028 (t)
<u>ENVIRONMENTAL AMORTIZATION</u>									
) FY 2002-FY 2008 NET ERC Costs Net of Insurance	\$5,793,300	10	\$0						
) Amortization Period (years)									
) FY 2009 NET ERC Costs Net of Insurance	\$965,754	10	\$96,579	\$0					
) Amortization Period (years)									
) FY 2010 NET ERC Costs Net of Insurance	\$2,088,264	10	\$208,826	\$208,830	\$0				
) Amortization Period (years)									
) FY 2011 NET ERC Costs Net of Insurance	\$4,522,947	10	\$452,295	\$452,292	\$0				
) Amortization Period (years)									
) FY 2012 NET ERC Costs Net of Insurance	\$5,583,936	10	\$558,394	\$558,394	\$558,390	\$0			
) Amortization Period (years)									
) FY 2013 NET ERC Costs Net of Insurance	\$1,368,521	10	\$136,852	\$136,852	\$136,852	\$0			
) Amortization Period (years)									
) FY 2014 NET ERC Costs Net of Insurance	\$3,008,237	10	\$300,824	\$300,824	\$300,824	\$300,821	\$0		
) Amortization Period (years)									
) FY 2015 NET ERC Costs Net of Insurance	\$1,129,080	10	\$112,908	\$112,908	\$112,908	\$112,908	\$0		
) Amortization Period (years)									
) FY 2016 NET ERC Costs Net of Insurance	\$1,117,923	10	\$111,792	\$111,792	\$111,792	\$111,792	\$111,795	\$0	
) Amortization Period (years)									
) FY 2017 NET ERC Costs Net of Insurance	\$3,037,565	10	\$303,756	\$303,756	\$303,756	\$303,756	\$303,756	\$303,761	\$0
) Amortization Period (years)									
) FY 2018 NET ERC Costs Net of Insurance	\$1,143,802	10	\$114,380	\$114,380	\$114,380	\$114,380	\$114,380	\$114,380	\$114,382
) Amortization Period (years)									
) Amortization Expense sub-total	\$2,396,606	\$2,300,031	\$2,091,198	\$1,638,902	\$1,080,513	\$943,657	\$642,836	\$529,931	\$418,141
) ENVIRONMENTAL REMEDIATION COSTS									
) Beginning Balance	\$29,759,329	\$29,759,329	\$29,759,329	\$29,759,329	\$29,759,329	\$29,759,329	\$29,759,329	\$29,759,329	\$29,759,329
) Environmental Expenditures, net of Insurance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
) Ending Balance	\$29,759,329	\$29,759,329	\$29,759,329	\$29,759,329	\$29,759,329	\$29,759,329	\$29,759,329	\$29,759,329	\$29,759,329
) ACCUMULATED ENVIRONMENTAL REMEDIATION									
) Beginning Balance	\$17,603,132	\$19,999,738	\$22,299,769	\$24,390,967	\$26,029,869	\$27,110,382	\$28,054,039	\$28,696,875	\$29,226,806
) Environmental Expenditures, net of Insurance	\$2,396,606	\$2,300,031	\$2,091,198	\$1,638,902	\$1,080,513	\$943,657	\$642,836	\$529,931	\$418,141
) Ending Balance	\$19,999,738	\$22,299,769	\$24,390,967	\$26,029,869	\$27,110,382	\$28,054,039	\$28,696,875	\$29,226,806	\$29,644,946
) NET ENVIRONMENTAL REMEDIATION COSTS	\$0	\$7,450,501	\$5,369,362	\$2,770,160	\$2,648,047	\$1,705,200	\$1,062,454	\$522,522	\$114,297

National Grid - RI Gas
Environmental Response Cost (ERC) Factor
ERC FY 2018 Detail

		Total Costs at 3/31/2017 (a)	FY 2018 Costs (b)	Total Costs at 3/31/2018 (c) = (a) + (b)
<u>Environmental Expenses</u>				
(1)	907 & 908 Allens Avenue	\$22,706,620	\$368,640	\$23,075,260
(2)	307 PCB Reg Pipe Abandon.	\$1,588,744	\$362,689	\$1,951,433
(3)	379 Petroleum Site	\$8,065,474	\$49,827	\$8,115,301
(4)	700 18 & 21 Holders COR	\$2,776,743	\$0	\$2,776,743
(5)	161 Canal Street, Westerly	\$29,133	\$0	\$29,133
(6)	178 Site Inv Connell Hwy Newp	\$44,092	\$0	\$44,092
(7)	144 Westerly Soil Investigation	\$82,184	\$0	\$82,184
(8)	171 Contaminated Regulators	\$3,098,876	\$5,858	\$3,104,734
(9)	781 Mendon Road	\$121,355	\$0	\$121,355
(10)	782 Tidewater	\$1,661,227	\$150,372	\$1,811,599
(11)	783 Hamlet	\$158,378	\$17,697	\$176,075
(12)	-- Thames & Wellington	\$6,076,557	\$105,244	\$6,181,801
(13)	-- Misc MGP (NEG)	\$418,144	\$44,066	\$462,210
(14)	-- Insurance Recovery	\$1,348,558	\$16,994	\$1,365,552
(15)	-- East Providence (First Ave) Holder	\$346,682	\$16,120	\$362,802
(16)	-- 560 Thames Street Newp	<u>\$157,906</u>	<u>\$6,295</u>	<u>\$164,201</u>
(17)	Sub-Total	\$48,680,675	\$1,143,802	\$49,824,477
(18)	Insurance Recovery/Settlement			
(19)	910 Environmental Insurance Settlement		\$0	
(20)	Net FY 2018 Environmental Response Costs			<u><u>\$1,143,802</u></u>

(1)-(17) Col (a): Docket 4708, AEL-4, Page 4, Col (c)

(1)-(17) Col (b): Annual Environmental Report for Gas Service, Period of April 1, 2017 - March 31, 2018

(20) Line (17), Col (b) + Line (19)

**Schedule
AEL-5S**

**THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC DOCKET NO. 4846
SUPPLEMENTAL DISTRIBUTION ADJUSTMENT CHARGE FILING
WITNESS: ANN E. LEARY**

Schedule AEL-5S

Pensions and Postretirement Benefits Other than Pensions Factor

National Grid - RI Gas
Pension Adjustment Factors
Effective November 1, 2018

Pension Factor

(1)	Pension Reconciliation	(\$2,811,656)
(2)	Carrying Charges	<u>(\$10,931)</u>
(3)	Total Pension Cost	(\$2,822,587)
(4)	Firm Throughput	39,687,032 dths
(5)	Pension Factor per dth	(\$0.0710) per dth
(6)	Pension Factor per therm	(\$0.0071) per therm

PBOP Factor

(7)	PBOP Reconciliation	(\$3,417,375)
(8)	Carrying Charges	<u>\$0</u>
(9)	Total PBOP Cost	(\$3,417,375)
(10)	Firm Throughput	39,687,032 dths
(11)	PBOP Factor per dth	(\$0.0860) per dth
(12)	PBOP Factor per therm	(\$0.0086) per therm

Pension & PBOP Factor Combined

(13)	Pension & PBOP Factor per dth	(\$0.1570) per dth
(14)	Pension & PBOP Factor per therm	(\$0.0157) per therm

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

**Schedule
AEL-6S**

**THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC DOCKET NO. 4846
SUPPLEMENTAL DISTRIBUTION ADJUSTMENT CHARGE FILING
WITNESS: ANN E. LEARY**

Schedule AEL-6S
Arrearage Management Adjustment Factor

The Narragansett Electric Company
Arrearage Management Adjustment Factor Calculation

(1) Total Recoverable Arrearage Forgiveness Amount	\$80,079
(2) Firm Throughput	39,687,032 dths
(3) Arrearage Management Adjustment Factor per dekatherm	\$0.0020 per dth
(4) Arrearage Management Adjustment Factor per therm	\$0.0002 per therm

- (1) Page 2, Line (12)
- (2) Company forecast
- (3) Line (1) ÷ Line (2)
- (4) Line (3) ÷ 10, truncated to 4 decimal places

The Narragansett Electric Company
Calculation of Recoverable Arrearage Foregiveness Amount

Uncollectible Recovery from:

(1) Rate Year Base Distribution Rates	\$5,114,039
(2) Calendar Year Commodity Rates	\$3,952,919
(3) Calendar Year DAC	\$1,165,424
(4) Calendar Year Energy Efficiency (EE)	<u>\$966,849</u>
 (5) Total Allowable Bad Debt	 \$11,199,231
 (6) Total Actual Net Charge Offs	 <u>\$5,558,517</u>
 (7) Actual Above / (Below) Allowable Bad Debt	 (\$5,640,714)
 (8) Amount of AMP Successful Participants Arrearage Foregiveness	 <u>\$11,961</u>
 (9) Recoverable Arrearage Foregiveness Due to AMP Successful Participants	 \$0
 (10) Recoverable Arrearage Foregiveness Due to AMP Unsuccessful Participants (Cancelled)	 \$12,045
 (11) Recoverable Arrearage Foregiveness Due to AMP Unsuccessful Participants (Default)	 <u>\$68,033</u>
 (12) Total Recoverable Arrearage Foregiveness Amount	 \$80,079

- (1) RIPUC Docket No. 4323, Compliance (Book 1) Compliance Attachment 1 (Schedule MDL-3-GAS),
Page 6. Line (8), Col (e) + Page 7, Line (29), Col (e)
- (2) Page 3, Section 1, Line (3)
- (3) Page 3, Section 2, Line (3)
- (4) Page 3, Section 3, Line (3)
- (5) Sum of Lines (1) to (4)
- (6) Page 4, Column (d), Line (1)
- (7) Line (6) - Line (5)
- (8) Page 5, Line (6)
- (9) If Line (7) > 0 then Min of Line (7) or Line (8), Else 0
- (10) Page 5, Line (4)
- (11) Page 5, Line (2)
- (12) Sum of Lines (9) to (11)

The Narragansett Electric Company
Calculation of Recoverable Arrearage Foregiveness Amount

Section 1: Gas Cost Recovery

(1) Gas Cost Recovery Billings	\$124,305,626
(2) Uncollectible Percentage	3.18%
(3) Commodity Rate Allowable Bad Debt	\$3,952,919
(1) Per Company Revenue Reports for calendar year 2017	
(2) Uncollectible percentage approved in RIPUC Docket No. 4323	
(3) Line (1) x Line (2)	

Section 2: Distribution Adjustment Clause

(1) Distribution Adjustment Clause Billings	\$36,648,565
(2) Uncollectible Percentage	3.18%
(3) DAC Rate Allowable Bad Debt	\$1,165,424
(1) Per Company Revenue Reports for calendar year 2017	
(2) Uncollectible percentage approved in RIPUC Docket No. 4323	
(3) Line (1) x Line (2)	

Section 3: Energy Efficiency

(1) Enery Efficiency Billings	\$30,404,062
(2) Uncollectible Percentage	3.18%
(3) Energy Efficiency Allowable Bad Debt	\$966,849
(1) Per Company Revenue Reports for calendar year 2017	
(2) Uncollectible percentage approved in RIPUC Docket No. 4323	
(3) Line (1) x Line (2)	

The Narragansett Electric Company
Calculation of Recoverable Arrearage Foregiveness Amount
Calendar Year 2017 Net Charge - Offs

	Beginning Balance <u>FERC 144</u> (a)	Adjustments to Reserve <u>FERC 904</u> (b)	Ending Balance <u>FERC 144</u> (c)	Net Charge Offs <u>Charge Offs</u> (d)
(1)	\$10,547,625.09	\$5,683,198.48	\$10,672,306.28	\$5,558,517

- (a) Per Company's Financial Statements
- (b) Per Company's Financial Statements
- (c) Per Company's Financial Statements
- (d) Column (a) + Column (b) - Column (c)

The Narragansett Electric Company
Calculation of Recoverable Arrearage Foregiveness Amount
Arrearage Forgiveness Amounts

Unsuccessful Accounts (Default)

(1) Number of accounts not successful as of 12/31/2017	648
(2) Amount forgiven prior to defaulting	\$68,033

Unsuccessful Accounts (Cancelled)

(3) Number of accounts not successful as of 12/31/2017	115
(4) Amount forgiven prior to defaulting	\$12,045

Successful Accounts

(5) Number of accounts successfully completing the first year of the program	10
(6) Amount forgiven during 2017	\$11,961

Enrolled Accounts

(7) Number of accounts enrolled as of 12/31/2017	1,113
(8) Amount forgiven during 2017	\$234,948

Total Enrolled Accounts

(9) Number of accounts enrolled as of 12/31/2017	1,886
(10) Amount forgiven during 2017	\$326,988

- (1) Per Docket No. 4290 - Arrearage Management Program Monthly Report - December 2017
- (2) Per Company Records
- (3) Per Docket No. 4290 - Arrearage Management Program Monthly Report - December 2017
- (4) Per Company Records
- (5) Per Docket No. 4290 - Arrearage Management Program Monthly Report - December 2017
- (6) Per Company Records
- (7) Per Docket No. 4290 - Arrearage Management Program Monthly Report - December 2017
- (8) Per Company Records
- (9) Sum of Lines (1), (3), (5), and (7)
- (10) Sum of Lines (2), (4), (6), and (8)

**Schedule
AEL-7S**

**THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC DOCKET NO. 4846
SUPPLEMENTAL DISTRIBUTION ADJUSTMENT CHARGE FILING
WITNESS: ANN E. LEARY**

Schedule AEL-7S
Revenue Decoupling Adjustment Factor

The Narragansett Electric Company Annual Gas RDM Reconciliation Balance

(1)	Residential Non-Heat (incl Low Income)	\$535,269
(2)	Residential Heat (incl Low Income)	(\$6,879,336)
(3)	Small C&I	(\$139,560)
(4)	Medium C&I	\$822,510
(5)	Net Over Recovery of Target Recovery	<hr/> (\$5,661,116)
(6)	Firm Therm Throughput Forecast for RDM Rate Classes (Nov 2018-Oct 2019)	28,203,795 dths
(7)	Proposed RDA Factor per dth	(\$0.2007) per dth
(8)	Proposed RDA Factor per therm	(\$0.0200) per therm

- (1) Schedule AEL-7, Page 15, Column (l), Line (36)
(2) Schedule AEL-7, Page 16, Column (l), Line (72)
(3) Schedule AEL-7, Page 17, Column (l), Line (84)
(4) Schedule AEL-7, Page 17, Column (l), Line (96)
(5) Sum [Lines (1):(4)]
(6) Firm throughput (in therms) forecast for Residential Heat and Non-Heat, Small and Medium C&I rate classes.
(7) Line (5) ÷ Line (6)
(8) Line (7) ÷ 10, truncated to 4 decimal places.



Robert Humm
Senior Counsel

June 29, 2018

VIA HAND DELIVERY & ELECTRONIC MAIL

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

**RE: National Grid's Gas Revenue Decoupling Mechanism Reconciliation Filing
For April 1, 2017 to March 31, 2018
Docket No. _____**

Dear Ms. Massaro:

On behalf of National Grid,¹ enclosed please find the Company's annual Gas Revenue Decoupling Mechanism (RDM) reconciliation filing for the period April 1, 2017 to March 31, 2018. National Grid submits this filing pursuant to the provisions of the Distribution Adjustment Clause of its gas tariff, RIPUC NG-GAS No. 101, at Section 3, Schedule A, Sheet 9, subpart 3.9 (Revenue Decoupling Adjustment Factor), which allows an annual reconciliation of the target revenue-per-customer and the actual revenue-per-customer through a Revenue Decoupling Adjustment (RDA) factor to be included in National Grid's annual Distribution Adjustment Charge (DAC) filing.

This filing consists of the pre-filed direct testimony and schedules of Ann E. Leary. Ms. Leary provides an overview of National Grid's RDM reconciliation, and describes the actual RDM results for the period April 1, 2017 to March 31, 2018.

As a result of National Grid's RDM reconciliation, National Grid over-recovered revenue of \$5,661,116 under its RDM during the period April 1, 2017 to March 31, 2018. This over-recovery will be credited to customers through the RDA factor, which will go into effect November 1, 2018 with the rest of the DAC factors. National Grid is not presenting a proposed RDA factor at this time because the RDA factor is just one of several factors included in the DAC. Rather, National Grid will submit the RDA factor in its August 1, 2018 annual DAC filing.

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

Luly E. Massaro, Commission Clerk
Gas Revenue Decoupling Mechanism Filing
June 29, 2018
Page 2 of 2

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

Very truly yours,



Robert Humm

Enclosures

cc: Leo Wold, Esq.
 John Bell, Division
 Al Mancini, Division

**THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC DOCKET NO. _____
GAS REVENUE DECOUPLING MECHANISM RECONCILIATION
WITNESS: ANN E. LEARY
JUNE 29, 2018**

DIRECT TESTIMONY

OF

ANN E. LEARY

**THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC DOCKET NO. _____
GAS REVENUE DECOUPLING MECHANISM RECONCILIATION
WITNESS: ANN E. LEARY
JUNE 29, 2018**

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I.	Introduction and Qualifications	1
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THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC DOCKET NO. _____
GAS REVENUE DECOUPLING MECHANISM RECONCILIATION
WITNESS: ANN E. LEARY
JUNE 29, 2018
PAGE 1 OF 8

1 **I. Introduction and Qualifications**

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

3 A. My name is Ann E. Leary. My business address is 40 Sylvan Road, Waltham,
4 Massachusetts 02451.

5

6 **Q. What is your position at National Grid and responsibilities within that position?**

7 A. I am the Manager of New England Gas Pricing for National Grid USA Service
8 Company, Inc. In this position, I am responsible for preparing and submitting various
9 regulatory filings with the Rhode Island Public Utilities Commission (PUC) on behalf of
10 The Narragansett Electric Company d/b/a National Grid (Company or National Grid),
11 and with the Massachusetts Department of Public Utilities on behalf of Boston Gas
12 Company and Colonial Gas Company, each d/b/a National Grid.

13

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

15 A. I received a Bachelor of Science in Mechanical Engineering from Cornell University
16 in 1983.

17

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

19 A. In 1985, I joined the Essex County Gas Company (Essex) as a Staff Engineer. In 1987, I
20 became a planning analyst and later accepted the position of Manager of Rates at Essex.

21

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC DOCKET NO. _____
GAS REVENUE DECOUPLING MECHANISM RECONCILIATION
WITNESS: ANN E. LEARY
JUNE 29, 2018
PAGE 2 OF 8

1 Following Essex's merger with Eastern Enterprises in 1998, I became Manager of Pricing
2 for Boston Gas Company (Boston). After Boston merged with KeySpan Energy
3 Delivery, subsequently National Grid, I became the Manager of New England Gas
4 Pricing, the position I hold today.

5

6 **Q. Have you previously testified before the PUC?**

7 A. Yes. I have testified before the PUC on numerous occasions, most recently in the
8 Company's 2017 rate case filing in Docket No. 4770. In addition, I have testified
9 extensively in several ratemaking and regulatory proceedings before the Massachusetts
10 Department of Public Utilities and the New Hampshire Public Utilities Commission.

11

12 **II. Purpose of Testimony**

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

14 A. The purpose of my testimony is to present the Company's March 31, 2018 Revenue
15 Decoupling Mechanism (RDM) reconciliation balance, which will be used to compute
16 the proposed Revenue Decoupling Adjustment (RDA) factor to be incorporated in the
17 Company's upcoming August 1, 2018 annual Distribution Adjustment Charge (DAC)
18 filing. Specifically, I provide an overview of the Company's RDM reconciliation and
19 explain the RDM results for the reconciliation period April 1, 2017 through March 31,
20 2018.

21

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC DOCKET NO. _____
GAS REVENUE DECOUPLING MECHANISM RECONCILIATION
WITNESS: ANN E. LEARY
JUNE 29, 2018
PAGE 3 OF 8

1 This filing is submitted pursuant to the Company's Distribution Adjustment Clause
2 provision contained in its tariff, RIPUC NG-GAS No. 101, at Section 3, Schedule A,
3 Sheet 9, subpart 3.9 (Revenue Decoupling Adjustment Factor).
4

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

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

7 Schedule AEL-1 Annual Gas RDM Reconciliation Balance
8 Schedule AEL-2 Monthly RDM Reconciliation by Rate Class for the
9 Period April 1, 2017 through March 31, 2018
10 Schedule AEL-3 Actual vs. Normal Billing Heating Degree Day Comparison for
11 April 2017 through March 2018
12 Schedule AEL-4 Revenue-Per-Customer Targets
13

14 **III. RDM Reconciliation**

15 **Q. Please provide an overview of the Company's RDM reconciliation.**

16 A. In Docket No. 4206, the PUC approved a Revenue-Per-Customer RDM that provides for
17 an annual reconciliation, by rate class, between a target level of base distribution rate
18 revenue and actual base distribution rate revenue billed during the reconciliation period.
19 The reconciliation is driven by the comparison of the Actual Revenue-Per-Customer
20 during the reconciliation period and the Target Revenue-Per-Customer. The
21 reconciliation is performed on a monthly basis and covers the Company's fiscal year (the
22 period April 1 through March 31 of the following year) for all Residential and Small and

THE NARRAGANSETT ELECTRIC COMPANY
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GAS REVENUE DECOUPLING MECHANISM RECONCILIATION
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PAGE 4 OF 8

1 Medium Commercial and Industrial (C&I) firm rate classes. Under the RDM, customers
2 subject to the RDM receive any net over-recovery of target revenue and are surcharged
3 for any net under-recovery of target revenue through the RDA factor, which is one of
4 several components of the DAC, effective November 1 each year.

5

6 **Q. What are the Target Revenue-Per-Customer and the Actual Revenue-Per-**
7 **Customer?**

8 A. The Target Revenue-Per-Customer is the Revenue-Per-Customer that the Company is
9 allowed to earn applicable to the customers in each rate class included in the RDM. The
10 Actual Revenue-Per-Customer is the actual average Revenue-Per-Customer resulting
11 from the customers in each rate class included in the RDM based upon the base
12 distribution rate revenue billed by the Company divided by the actual number of
13 customers billed.

14

15 **Q. What is the result of the RDM reconciliation presented in this filing?**

16 A. The RDM reconciliation results in a net over-recovery balance of \$5,661,116 for the
17 period April 1, 2017 through March 31, 2018, as shown in Schedule AEL-1.

18

19

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
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GAS REVENUE DECOUPLING MECHANISM RECONCILIATION
WITNESS: ANN E. LEARY
JUNE 29, 2018
PAGE 5 OF 8

1 **Q. How did the Company determine the RDM reconciliation balance at the end of**
2 **March 2018?**

3 A. On a monthly basis and for each rate class, the Company calculated the difference
4 between the Target Revenue-Per-Customer and the Actual Revenue-Per-Customer. If the
5 Actual Revenue-Per-Customer exceeds the Target Revenue-Per-Customer, the Company
6 has over-recovered its RDM target revenue and must credit customers the excess amount.
7 If the Actual Revenue-Per-Customer is less than the Target Revenue-Per-Customer, the
8 Company has under-recovered its RDM target revenue and must surcharge customers the
9 deficiency. The monthly difference between the Actual and Target Revenue-Per-
10 Customers is multiplied by the number of customers billed in the month to derive the
11 amount of revenue the Company has either over-recovered or under-recovered for the
12 month. For each month, the monthly revenue over- or under-recovery accumulates and
13 the balance accrues interest, which is also reflected in the final monthly balance.¹ The
14 Company presents this annual reconciliation in Schedule AEL-2.

15

16 **Q. Has the Company made any adjustment to the Target Revenue-Per-Customer for**
17 **the adjustments to the Residential Heating and Residential Non-Heating customer**
18 **classes approved in Docket No. 4708?**²

¹ Interest on the average monthly balance is calculated at the same interest rate used to calculate interest on the Company's other DAC balances, which is the Bank of America Prime Rate less 200 basis points.

² In Docket No. 4708, the Company adjusted the Target Revenue-Per-Customer for the Residential Heating and Residential Non-Heating customer classes to normalize for the end of July 2016 transfer of 684 customers from Non-Heating rate classes to the Heating rate classes. As a result, such customers were in their new rate classes at the beginning of the RDM reconciliation period in Docket No. 4708 (i.e., April 1, 2016).

THE NARRAGANSETT ELECTRIC COMPANY
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RIPUC DOCKET NO. _____
GAS REVENUE DECOUPLING MECHANISM RECONCILIATION
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JUNE 29, 2018
PAGE 6 OF 8

1 A. No. For the past three years, the Company has been revising the benchmark Target
2 Revenue-Per-Customer due to the transfer of significant numbers of customers between
3 the Residential Heating and Residential Non-Heating rate classes as a result of the
4 Company refining the criteria used to identify Residential customers who should have
5 received service on the Residential Heating rate classes, but were actually billed on the
6 Residential Non-Heating rate classes, during the rate year of the Company's rate case
7 filed in 2012, Docket No. 4323.³ The Company has identified all the Residential
8 Heating customers who were on the Residential Non-Heating rate classes, but should
9 have been on the Residential Heating rate classes, for the period February 2013 through
10 January 2014, so it is unnecessary to make any further revisions to Target Revenue-Per-
11 Customers for these two rate classes. The transfer of 684 customers from Residential
12 Non-Heating to Residential Heating at the end of July 2016, as presented in Docket No.
13 4708, was the final update to the Target Revenue-Per-Customers.

14

15 **Q. Does the Company anticipate updating the Target Revenue-Per-Customer for any**
16 **of its RDM groups in future filings?**

17 A. No. The Company believes the statistical analysis it has developed best identifies all
18 Residential Heating customers that should have been transferred from the Residential
19 Non-Heating rate classes to the Residential Heating rate classes based on their annual
20 load profile.

³ The rate year in Docket No. 4323 was February 2013 through January 2014.

THE NARRAGANSETT ELECTRIC COMPANY
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WITNESS: ANN E. LEARY
JUNE 29, 2018
PAGE 7 OF 8

1 **IV. Results of the RDM Reconciliation**

2 **Q. What are the results of the RDM reconciliation for the year ending March 31, 2018?**

3 A. For the reconciliation period April 1, 2017 through March 31, 2018, the Company has
4 calculated a net over-recovery of target revenue of \$5,661,116, as summarized in
5 Schedule AEL-1. This over-recovery will be credited to customers through the RDA
6 factor, which will go into effect November 1, 2018 with the rest of the DAC factors.

7

8 **Q. What are the drivers for the net under-recovery?**

9 A. As shown in Schedule AEL-1, the Company's net over-recovery of \$5,661,116 was
10 driven by a \$6.3 million combined over-recovery for the Residential RDM groups and a
11 \$0.7 million combined under-recovery for the Small and Medium C&I RDM groups. For
12 the Small and Medium C&I RDM groups, the \$0.7 million under-recovery was driven by
13 a reduction in actual revenue due to warmer than normal weather.⁴ Schedule AEL-3
14 shows the billing heating degree day comparison for this reconciliation period.

15

16 For the Residential RDM groups, the over-recovery is the result of two factors. First, the
17 Actual Revenue-Per-Customer declined due to warmer than normal weather, similar to
18 the weather's impact on the Small and Medium C&I RDM groups. Warmer weather
19 would typically generate an under-recovery; however, the weather's impact was offset by
20 the adjustments the Company made to the Residential Non-Heating and Residential

⁴ Overall Fiscal Year 2018 weather was approximately 4.5 percent warmer than normal, but 3.5 percent colder than in Fiscal Year 2017.

THE NARRAGANSETT ELECTRIC COMPANY
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1 Heating Target Revenue-Per-Customers, which reduced the Target Revenue-Per-
2 Customer for the Residential Heating rate classes. The lower Target Revenue-Per-
3 Customer – which is a function of revenue based on normal forecasted sales volumes and
4 numbers of customers, as adjusted in Docket Nos. 4514, 4573, 4634, and 4708 – when
5 compared to weather-normal Actual Revenue-Per-Customers, will inherently generate an
6 over-recovery as compared to the original Target Revenue-Per-Customer in Docket No.
7 4514. This result is to the customers' benefit.

8

9 **V. Bill Impacts**

10 **Q. Does the Company include bill impacts resulting from the RDM reconciliation in**
11 **this filing?**

12 A. No, the Company is not presenting bill impact information at this time. Because the
13 RDA factor will be proposed in the DAC filing along with several other factors, the bill
14 impact of a RDA factor on a stand-alone basis provides limited information as to the
15 cumulative impact of the change in the overall DAC factors. Rather, the Company will
16 submit bill impacts for the cumulative impact of all of its proposed DAC factors,
17 including the RDA factor, with its August 1, 2018 DAC filing.

18

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

20 A. Yes.

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. _____
Schedule AEL-1
Page 1 of 1

The Narragansett Electric Company Annual Gas RDM Reconciliation Balance

(1)	Residential Non-Heat (incl Low Income)	\$535,269
(2)	Residential Heat (incl Low Income)	(\$6,879,336)
(3)	Small C&I	(\$139,560)
(4)	Medium C&I	\$822,510
(5)	Net Over Recovery of Target Recovery	<hr/> (\$5,661,116)

- (1) Schedule AEL-2, Page 1, Column (l), Line (36)
- (2) Schedule AEL-2, Page 2, Column (l), Line (72)
- (3) Schedule AEL-2, Page 3, Column (l), Line (84)
- (4) Schedule AEL-2, Page 3, Column (l), Line (96)
- (5) Sum [Lines (1):(4)]

RDM Reconciliation by Rate Class by Month

	<u>Apr-17</u>	<u>May-17</u>	<u>Jun-17</u>	<u>Jul-17</u>	<u>Aug-17</u>	<u>Sep-17</u>	<u>Oct-17</u>	<u>Nov-17</u>	<u>Dec-17</u>	<u>Jan-18</u>	<u>Feb-18</u>	<u>Mar-18</u>
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)
Residential Non-Heat												
(1) Benchmark Revenue Per Customer (RPC)	\$25.12	\$21.96	\$20.18	\$19.39	\$18.63	\$18.94	\$19.59	\$21.47	\$24.88	\$27.83	\$28.16	\$27.46
(2) Beginning Balance Under/(Over) Recovery	\$0	\$41,230	\$86,212	\$118,056	\$156,109	\$182,582	\$204,455	\$267,613	\$299,809	\$373,029	\$403,077	\$462,924
(3) Actual Number of Customers	19,292	19,196	19,125	19,086	19,067	18,725	18,333	18,380	18,400	18,420	18,389	18,373
(4) Actual Base Revenue	\$443,365	\$376,384	\$354,344	\$332,296	\$329,037	\$333,123	\$362,417	\$385,278	\$483,435	\$458,855	\$418,201	\$418,201
(5) Actual Base Revenue Per Customer	\$22.98	\$19.62	\$18.53	\$17.41	\$17.26	\$17.79	\$19.75	\$20.94	\$26.25	\$24.95	\$22.75	\$22.75
(6) RPC Variance (Benchmark- Actual)	\$2.14	\$2.34	\$1.66	\$1.98	\$1.37	\$1.15	\$3.42	\$1.72	\$5.94	\$1.59	\$3.21	\$4.69
(7) Monthly Under/(Over) Recovery of RPC	\$41,196	\$44,874	\$31,665	\$37,792	\$26,150	\$21,515	\$62,707	\$31,671	\$72,542	\$29,225	\$59,018	\$86,247
(8) Preliminary Ending Balance	\$41,196	\$86,104	\$117,877	\$155,848	\$182,259	\$204,098	\$267,163	\$299,285	\$372,351	\$402,254	\$462,095	\$549,172
(9) Average Balance	\$63,667	\$102,045	\$136,992	\$169,184	\$193,340	\$235,809	\$283,449	\$336,080	\$387,641	\$432,586	\$506,048	\$506,048
(10) Bk American Rate less 200 Basis Points	2.00%	2.13%	2.25%	2.25%	2.25%	2.25%	2.25%	2.25%	2.25%	2.25%	2.50%	2.58%
(11) Interest Applied	\$34	\$108	\$178	\$262	\$323	\$358	\$451	\$524	\$678	\$823	\$830	\$1,109
(12) Ending Balance Under/(Over) Recovery	\$41,230	\$86,212	\$118,056	\$156,109	\$182,582	\$204,455	\$267,613	\$299,809	\$373,029	\$403,077	\$462,924	\$550,281

Residential Non-Heat Low Income	
(13) Beginning Balance Under/(Over) Recovery	\$25.12
(14) Benchmark Revenue Per Customer (RPC)	\$21.96
(15) Actual Number of Customers	\$0 (\$2,911)
(16) Actual Base Revenue	\$20.18 (\$4,642)
(17) Actual Base Revenue Per Customer	\$19.39 (\$5,264)
(18) RPC Variance (Benchmark- Actual)	\$18.63 (\$5,282)
(19) Monthly Under/(Over) Recovery of RPC	\$5.415 (\$5,415)
(20) Preliminary Ending Balance	\$18.94 (\$5,415)
(21) Average Balance	\$19.59 (\$10,584)
(22) Bk America Rate less 200 Basis Points	\$21.47 (\$7,222)
(23) Interest Applied	\$24.88 (\$8,562)
(24) Ending Balance Under/(Over) Recovery	\$28.16 (\$11,895)

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4846
Schedule AEL-7S
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The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. ____
Schedule AEL-2
Page 1 of 3

- (1) AEL-4, Line (4)
 - (2) Line (12)
 - (3) Company's billing system
 - (4) Company's billing system
 - (5) Line (4) / Line (3)
 - (6) Line (1) - Line (5)
 - (7) Line (3) * Line (6)
 - (8) Line (2) + Line (7)
 - (9) $\left[\text{Line (2)} + \text{Line (8)} \right] / 2$
 - (10) $\left[\text{Line (9)} * \text{Line (10)} \right] / 365 * \# \text{ days}$
 - (11) $\left[\text{Line (8)} + \text{Line (11)} \right] / 365 * \# \text{ days}$
 - (12) Line (8) + Line (11)
 - (13) AEL-4, Line (4)
 - (14) Line (24)
 - (15) Company's billing system
 - (16) Company's billing system
 - (17) Line (16) / Line (15)
 - (18) Line (13) - Line (17)
 - (19) Line (15) * Line (18)
 - (20) Line (14) + Line (19)
 - (21) $\left[\text{Line (14)} + \text{Line (20)} \right] / 2$
 - (22) $\left[\text{Line (21)} * \text{Line (22)} \right] / 365 * \# \text{ days}$
 - (23) Line (20) + Line (23)
 - (24) Line (20) + Line (23)
 - (25) AEL-4, Line (4)
 - (26) Line (36)
 - (27) Line (3) + Line (15)
 - (28) Line (4) + Line (16)
 - (29) Line (28) / Line (27)
 - (30) Line (25) - Line (29)
 - (31) Line (27) * Line (30)
 - (32) Line (26) + Line (31)
 - (33) $\left[\text{Line (26)} + \text{Line (32)} \right] / 2$
 - (34) Line (33) * Line (34) / 365 * # days
 - (35) Line (32) + Line (35)

RDM Reconciliation by Rate Class by Month

	<u>Apr-17</u>	<u>May-17</u>	<u>Jun-17</u>	<u>Jul-17</u>	<u>Aug-17</u>	<u>Sep-17</u>	<u>Oct-17</u>	<u>Nov-17</u>	<u>Dec-17</u>	<u>Jan-18</u>	<u>Feb-18</u>	<u>Mar-18</u>
	30	31	30	31	31	30	31	30	31	31	28	31
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)
Residential Heating												
(37) Benchmark Revenue Per Customer (RPC)	\$52.93	\$34.33	\$24.38	\$21.60	\$20.37	\$20.69	\$22.43	\$33.41	\$54.46	\$69.95	\$73.79	\$68.59
(38) Beginning Balance Under/(Over) Recovery	\$0	(\$1,706.541)	(\$1,695.931)	(\$2,152.787)	(\$2,278,935)	(\$2,511,864)	(\$2,651,301)	(\$2,641,411)	(\$3,083,015)	(\$7,057,081)	(\$7,524,076)	
(39) Actual Number of Customers	203,897	201,692	200,727	200,418	200,583	201,524	204,611	206,954	208,274	208,959	209,430	209,26
(40) Actual Base Revenue	\$12,498,379	\$6,910,294	\$5,346,284	\$4,450,551	\$4,315,132	\$4,303,779	\$4,186,990	\$2,299,117	\$11,782,756	\$18,575,561	\$15,906,038	\$13,060,230
(41) Actual Base Revenue Per Customer	\$61.30	\$34.26	\$26.63	\$22.21	\$21.51	\$21.36	\$20.46	\$35.27	\$56.57	\$88.90	\$75.95	\$62.33
(42) RPC Variance (Benchmark- Actual)	\$8.36	\$0.07	\$2.26	(\$0.61)	(\$1.14)	(\$0.67)	\$1.97	(\$1.85)	(\$2.12)	(\$18.94)	(\$2.16)	\$6.25
(43) Monthly Under/(Over) Recovery of RPC	(\$1,705.140)	\$13,497	(\$453,497)	(\$121,918)	(\$228,356)	(\$134,667)	\$402,913	(\$383,820)	(\$440,831)	(\$3,958,307)	(\$453,026)	\$1,310,199
(44) Preliminary Ending Balance	(\$1,705.140)	(\$1,693,044)	(\$2,149,429)	(\$2,274,705)	(\$2,507,291)	(\$2,646,531)	(\$2,248,388)	(\$2,636,890)	(\$3,082,242)	(\$7,046,322)	(\$7,510,107)	(\$6,213,876)
(45) Average Balance	(\$852,570)	(\$1,699,793)	(\$1,922,680)	(\$2,213,746)	(\$2,393,113)	(\$2,579,198)	(\$2,449,844)	(\$2,444,979)	(\$2,861,827)	(\$5,067,168)	(\$7,283,394)	(\$6,868,976)
(46) Bk America Rate less 200 Basis Points	2.00%	2.00%	2.13%	2.25%	2.25%	2.25%	2.25%	2.25%	2.25%	2.38%	2.50%	2.58%
(47) Interest Applied	(\$1,401)	(\$2,887)	(\$3,358)	(\$4,230)	(\$4,573)	(\$4,770)	(\$4,682)	(\$4,522)	(\$5,773)	(\$13,759)	(\$13,969)	(\$15,055)
(48) Ending Balance Under/(Over) Recovery	(\$1,706,541)	(\$1,695,931)	(\$2,152,787)	(\$2,278,935)	(\$2,511,864)	(\$2,253,069)	(\$2,651,301)	(\$2,641,411)	(\$3,088,015)	(\$7,057,081)	(\$7,524,076)	(\$6,228,932)
Residential Heating - Low Income												
(49) Benchmark Revenue Per Customer (RPC)	\$52.93	\$34.33	\$24.38	\$21.60	\$20.37	\$20.69	\$22.43	\$33.41	\$54.46	\$69.95	\$73.79	\$68.59
(50) Beginning Balance Under/(Over) Recovery	\$0	(\$79,957)	(\$88,714)	(\$139,310)	(\$164,347)	(\$211,980)	(\$221,314)	(\$228,087)	(\$324,958)	(\$410,249)	(\$692,050)	(\$716,226)
(51) Actual Number of Customers	19,038	20,347	20,312	20,163	19,817	19,422	17,282	16,717	16,424	16,373	16,280	16,318
(52) Actual Base Revenue	\$1,087,664	\$707,096	\$454,508	\$460,229	\$451,035	\$460,688	\$393,924	\$604,907	\$978,948	\$1,422,967	\$1,231,742	\$1,051,559
(53) Actual Base Revenue Per Customer	\$57.13	\$34.75	\$26.86	\$22.83	\$22.76	\$23.72	\$22.79	\$36.19	\$57.09	\$89.60	\$75.20	\$64.44
(54) RPC Variance (Benchmark- Actual)	(\$4,20)	(\$0.42)	(\$2.48)	(\$1.23)	(\$2.39)	(\$30.03)	(\$30.36)	(\$2.77)	(\$5.15)	(\$17.14)	(\$1.41)	\$4.14
(55) Monthly Under/(Over) Recovery of RPC	(\$79,892)	(\$8,614)	(\$50,396)	(\$24,748)	(\$47,273)	(\$58,887)	(\$6,249)	(\$46,314)	(\$84,550)	(\$286,631)	(\$231,127)	\$67,618
(56) Preliminary Ending Balance	(\$79,892)	(\$88,571)	(\$39,111)	(\$164,057)	(\$211,621)	(\$270,867)	(\$277,562)	(\$324,401)	(\$690,881)	(\$715,176)	(\$648,908)	
(57) Average Balance	(\$39,946)	(\$84,264)	(\$113,912)	(\$151,683)	(\$187,984)	(\$241,424)	(\$274,438)	(\$301,244)	(\$367,233)	(\$550,565)	(\$703,613)	(\$682,717)
(58) Bk America Rate less 200 Basis Points	2.00%	2.00%	2.13%	2.25%	2.25%	2.25%	2.25%	2.25%	2.25%	2.38%	2.50%	2.58%
(59) Interest Applied	(\$66)	(\$143)	(\$199)	(\$290)	(\$359)	(\$446)	(\$524)	(\$557)	(\$741)	(\$1,169)	(\$1,349)	(\$1,496)
(60) Ending Balance Under/(Over) Recovery	(\$79,957)	(\$88,714)	(\$139,310)	(\$164,347)	(\$211,980)	(\$221,314)	(\$228,087)	(\$324,958)	(\$410,249)	(\$692,050)	(\$716,226)	(\$650,404)
Residential Heat (incl Low Income)												
(61) Benchmark Revenue Per Customer (RPC)	\$52.93	\$34.33	\$24.38	\$21.60	\$20.37	\$20.69	\$22.43	\$33.41	\$54.46	\$69.95	\$73.79	\$68.59
(62) Beginning Balance Under/(Over) Recovery	\$0	(\$1,786,498)	(\$1,784,646)	(\$2,292,096)	(\$2,443,282)	(\$2,723,844)	(\$2,922,615)	(\$2,531,156)	(\$2,966,369)	(\$3,498,264)	(\$7,749,130)	(\$8,240,601)
(63) Actual Number of Customers	222,935	222,039	221,039	220,581	220,400	220,946	221,893	223,671	224,698	225,332	225,810	225,844
(64) Actual Base Revenue	\$13,586,043	\$7,617,390	\$5,891,792	\$4,910,780	\$4,766,167	\$4,764,468	\$4,580,914	\$7,904,024	\$12,761,704	\$20,001,528	\$17,137,780	\$14,111,789
(65) Actual Base Revenue Per Customer	\$60.94	\$34.31	\$26.65	\$22.26	\$21.63	\$21.56	\$20.64	\$35.34	\$56.79	\$88.76	\$75.89	\$62.48
(66) RPC Variance (Benchmark- Actual)	(\$8,01)	(\$0.02)	(\$2.28)	(\$0.66)	(\$1.25)	(\$0.88)	\$1.79	(\$1.92)	(\$2.34)	(\$18.81)	(\$2.11)	\$6.10
(67) Monthly Under/(Over) Recovery of RPC	(\$1,785,031)	\$4,883	(\$50,3894)	(\$146,666)	(\$275,629)	(\$193,555)	\$396,665	(\$430,135)	(\$525,381)	(\$476,153)	(\$243,938)	(\$1,377,817)
(68) Preliminary Ending Balance	(\$1,785,031)	(\$7,81,615)	(\$2,288,559)	(\$2,438,762)	(\$2,718,911)	(\$2,917,399)	(\$2,525,950)	(\$2,961,291)	(\$3,491,751)	(\$7,737,202)	(\$8,225,283)	(\$6,862,784)
(69) Average Balance	(\$892,516)	(\$1,784,057)	(\$2,036,592)	(\$2,365,429)	(\$2,581,097)	(\$2,820,621)	(\$2,724,282)	(\$2,746,223)	(\$3,229,060)	(\$5,617,733)	(\$7,987,207)	(\$7,551,693)
(70) Bk America Rate less 200 Basis Points	2.00%	2.00%	2.13%	2.25%	2.25%	2.25%	2.25%	2.25%	2.25%	2.38%	2.50%	2.58%
(71) Interest Applied	(\$1,467)	(\$3,030)	(\$3,355)	(\$4,520)	(\$4,932)	(\$5,216)	(\$5,206)	(\$5,079)	(\$6,513)	(\$11,928)	(\$15,518)	(\$16,552)
(72) Ending Balance Under/(Over) Recovery	(\$1,786,498)	(\$1,784,646)	(\$2,292,096)	(\$2,443,282)	(\$2,723,844)	(\$2,922,615)	(\$2,531,156)	(\$2,966,369)	(\$3,498,264)	(\$7,749,130)	(\$8,240,601)	(\$650,404)
(73) AEL-4, Line 8												
(74) Line (48)												
(75) Company's billing system												
(76) Company's billing system												
(77) Line (40) / Line (39)												
(78) Line (37) - Line (41)												
(79) Line (39) * Line (42)												
(80) Line (38) + Line (43)												
(81) Line (50) + Line (56)												
(82) Line (50) * Line (58)												
(83) Line (45) * Line (46) / 365 * # days												
(84) Line (44) + Line (47)												
(85) Line (56) + Line (59)												

(37) AEL-4, Line 8
 (38) Line (48)
 (39) Company's billing system
 (40) Company's billing system
 (41) Line (40) / Line (39)
 (42) Line (37) - Line (41)
 (43) Line (39) * Line (42)
 (44) Line (38) + Line (43)
 (45) [Line (38) + Line (44)] / 2
 (46) [Line (45) * Line (46)] / 365 * # days
 (47) [Line (45) * Line (46)] / 365 * # days
 (48) Line (44) + Line (47)
 (49) AEL-4, Line 8
 (50) Line (60)
 (51) Company's billing system
 (52) Company's billing system
 (53) Line (52) / Line (51)
 (54) Line (49) - Line (53)
 (55) Line (51) * Line (54)
 (56) Line (50) + Line (55)
 (57) [Line (50) + Line (56)] / 2
 (58) [Line (56) * Line (58)] / 365 * # days
 (59) [Line (57) * Line (59)] / 365 * # days
 (60) Line (56) + Line (59)

(61) AEL-4, Line 8
 (62) Line (61)
 (63) Line (39) + Line (51)
 (64) Line (40) + Line (52)
 (65) Line (64) / Line (63)
 (66) Line (61) - Line (65)
 (67) Line (51) * Line (66)
 (68) Line (62) + Line (67)
 (69) [Line (62) + Line (68)] / 2
 (70) [Line (68) * Line (70)] / 365 * # days
 (71) [Line (69) * Line (71)] / 365 * # days
 (72) Line (68) + Line (71)
 (73) AEL-4, Line 8
 (74) Line (60)
 (75) Line (61)
 (76) Line (62)
 (77) Line (63)
 (78) Line (64)
 (79) Line (65)
 (80) Line (66)
 (81) Line (67)
 (82) Line (68)
 (83) Line (69)
 (84) Line (70)
 (85) Line (71)

RDM Reconciliation by Rate Class by Month

	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18
	30	31	30	31	31	30	31	30	31	31	28	31
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)
Small C&I												
(73) Benchmark Revenue Per Customer (RPC)	\$77.93	\$50.14	\$33.47	\$31.72	\$29.56	\$29.40	\$32.02	\$46.85	\$78.12	\$116.16	\$104.13	
(74) Beginning Balance Under/(Over) Recovery	\$0	(\$19,546)	(\$100,213)	(\$108,397)	(\$81,033)	(\$73,602)	(\$65,879)	(\$13,922)	(\$25,989)	(\$5,853)	(\$27,861)	
(75) Actual Number of Customers	19,154	18,983	18,835	18,748	18,668	18,640	18,702	18,986	19,149	19,255	19,283	
(76) Actual Base Revenue	\$1,584,121	\$860,287	\$538,485	\$567,236	\$544,186	\$50,251	\$51,892	\$877,507	\$1,527,751	\$2,502,280	\$2,098,784	
(77) Actual Base Revenue Per Customer	\$87.93	\$45.32	\$33.90	\$30.26	\$29.15	\$28.98	\$27.75	\$46.22	\$79.78	\$129.95	\$108.84	
(78) RPC Variance (Benchmark- Actual)	(\$9,99)	\$4.82	(\$0.42)	\$1.47	\$0.41	\$0.42	\$4.27	\$0.63	(\$1.66)	(\$13.80)	\$14.62	
(79) Monthly Under/(Over) Recovery of RPC	(\$19,1388)	\$91,580	(\$8,002)	\$27,544	\$7,579	\$7,852	\$79,850	\$12,031	(\$31,863)	(\$265,714)	\$281,587	
(80) Preliminary Ending Balance	(\$91,965)	(\$108,215)	(\$80,852)	(\$73,454)	(\$65,750)	(\$65,750)	(\$13,971)	\$25,952	(\$5,873)	(\$271,567)	(\$38,947)	
(81) Average Balance	(\$95,694)	(\$45,756)	(\$104,214)	(\$94,625)	(\$77,244)	(\$69,676)	(\$25,954)	(\$19,937)	\$10,058	(\$138,710)	(\$345,866)	
(82) Bk America Rate less 200 Basis Points	2.00%	2.13%	2.25%	2.25%	2.25%	2.25%	2.25%	2.25%	2.38%	2.50%	2.50%	
(83) Interest Applied	(\$157)	(\$248)	(\$182)	(\$181)	(\$148)	(\$129)	(\$50)	\$37	\$20	(\$295)	(\$613)	
(84) Ending Balance Under/(Over) Recovery	(\$191,546)	(\$100,213)	(\$108,397)	(\$81,033)	(\$73,602)	(\$65,879)	(\$5,853)	(\$13,922)	(\$271,861)	(\$420,534)	(\$39,560)	
Medium C&I												
(85) Benchmark Revenue Per Customer (RPC)	\$390.91	\$306.74	\$258.99	\$228.10	\$215.25	\$227.59	\$250.75	\$319.05	\$401.46	\$503.80	\$496.12	
(86) Beginning Balance Under/(Over) Recovery	\$0	(\$136,235)	\$86,155	(\$8,247)	\$74,430	\$90,374	\$168,757	\$375,134	\$569,725	\$588,758	\$248,161	
(87) Actual Number of Customers	5,063	5,051	5,042	5,038	5,036	5,074	5,080	5,109	5,123	5,131	\$370,126	
(88) Actual Base Revenue	\$2,115,299	\$1,326,892	\$1,400,282	\$1,066,572	\$1,072,541	\$1,076,637	\$1,067,964	\$1,436,313	\$2,038,815	\$2,926,459	\$2,537,177	
(89) Actual Base Revenue Per Customer	\$417.80	\$262.70	\$277.72	\$211.71	\$212.13	\$212.19	\$210.23	\$281.13	\$397.97	\$570.35	\$494.38	
(90) RPC Variance (Benchmark- Actual)	(\$26,89)	\$44.04	(\$18.74)	\$16.40	\$31.12	\$15.40	\$40.52	\$37.92	\$3.49	(\$66.55)	\$23.65	
(91) Monthly Under/(Over) Recovery of RPC	(\$36,124)	\$222,433	(\$94,470)	\$82,613	\$15,788	\$78,143	\$20,859	\$195,718	\$17,865	(\$341,484)	\$451,079	
(92) Preliminary Ending Balance	(\$36,124)	\$86,198	(\$8,315)	\$74,366	\$90,217	\$168,517	\$374,615	\$568,852	\$587,590	\$247,273	\$821,205	
(93) Average Balance	(\$68,062)	(\$25,019)	\$38,920	\$33,060	\$82,323	\$129,446	\$271,686	\$471,993	\$578,658	\$308,847	\$395,665	
(94) Bk America Rate less 200 Basis Points	2.00%	2.13%	2.25%	2.25%	2.25%	2.25%	2.25%	2.25%	2.38%	2.50%	2.50%	
(95) Interest Applied	(\$112)	(\$42)	\$68	\$63	\$157	\$239	\$519	\$873	\$1167	\$888	\$1,306	
(96) Ending Balance Under/(Over) Recovery	(\$136,235)	\$86,155	(\$8,247)	\$74,430	\$90,374	\$168,757	\$375,134	\$569,725	\$588,758	\$248,161	\$370,126	

- (73) AEL-4, Line (12)
- (74) Line (84)
- (75) Company's billing system
- (76) Company's billing system
- (77) Line (76) / Line (75)
- (78) Line (73) - Line (77)
- (79) Line (75) * Line (78)
- (80) Line (74) + Line (79)
- (81) [Line (74) + Line (80)] / 2
- (83) [Line (81) * Line (82)] / 365 * # days
- (84) Line (80) + Line (83)
- (85) AEL-4, Line (16)
- (86) Line (96)
- (87) Company's billing system
- (88) Company's billing system
- (89) Line (88) / Line (87)
- (90) Line (85) - Line (89)
- (91) Line (87) * Line (90)
- (92) Line (86) + Line (91)
- (93) [Line (86) + Line (82)] / 2
- (95) [Line (93) * Line (94)] / 365 * # days
- (96) Line (92) + Line (95)

Actual vs. Normal Billing Degree Day Comparison for April 2017 - March 2018

	<u>Month/Year</u>	<u>Actual Billing Degree Days</u>	<u>Normal Billing Degree Days</u>
		(a)	(b)
(1)	Apr-17	704	652
(2)	May-17	300	356
(3)	Jun-17	159	118
(4)	Jul-17	13	16
(5)	Aug-17	5	0
(6)	Sep-17	14	17
(7)	Oct-17	70	143
(8)	Nov-17	337	463
(9)	Dec-17	782	761
(10)	Jan-18	1,197	995
(11)	Feb-18	903	1,038
(12)	Mar-18	737	909
(13)	Total	5,221	5,468
(14)	Degree Day Difference		247
(15)	Degree Day Difference (%)		-4.5%

Source: Normal Heating Degree Day Report

Line (13): Sum [Lines (1):(12)]

Line (14): Abs [Column (b), Line (13) - Column (a), Line (13)]

Line (15): [Column (a), Line (13) / Column (b), Line (13)] - 1

Gas Revenue Decoupling Targets Approved in Docket No. 4708

	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Total (m)
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	
(1) Residential Non-Heat (incl Low-Income)													
(2) Number of Customers	21,943	21,886	21,831	21,761	21,710	21,726	21,804	21,853	21,871	21,980	22,001		
(3) Final Revenue Requirement	\$551,147	\$480,518	\$440,626	\$421,958	\$404,121	\$411,267	\$425,590	\$448,132	\$453,756	\$468,707	\$619,002	\$604,058	\$5,979,163
RPC	\$25,12	\$21,96	\$20,18	\$19,39	\$18,63	\$18,94	\$19,59	\$21,47	\$24,88	\$27,83	\$28,16	\$27,46	
(4)													
(5) Residential Heating (incl Low-Income)													
(6) Number of Customers	210,780	209,814	209,107	208,472	207,967	208,172	209,183	211,033	212,290	213,118	210,778	210,988	
(7) Final Revenue Requirement	\$11,157,590	\$7,202,607	\$5,097,052	\$4,501,584	\$4,237,221	\$4,366,645	\$4,692,164	\$7,051,595	\$11,560,624	\$14,908,187	\$15,552,475	\$14,470,701	\$104,739,746
RPC	\$52,93	\$34,33	\$24,38	\$21,60	\$20,37	\$20,69	\$22,43	\$33,41	\$54,46	\$69,95	\$73,79	\$68,59	
(8)													
(9) Small Number of Customers	18,697	18,524	18,381	18,270	18,221	18,243	18,367	18,680	18,856	18,995	18,800	18,800	
(10) Final Revenue Requirement	\$1,457,117	\$928,852	\$615,286	\$579,616	\$538,554	\$564,429	\$588,115	\$75,201	\$147,299	\$206,366	\$1,901,912	\$1,957,612	\$13,658,058
RPC	\$77,93	\$50,14	\$33,47	\$31,72	\$29,56	\$29,40	\$32,02	\$46,85	\$78,12	\$116,16	\$101,17	\$104,13	
(11)													
(12) Medium C&I Number of Customers	4,702	4,691	4,694	4,684	4,665	4,678	4,700	4,734	4,758	4,773	4,696	4,705	
(13) Final Revenue Requirement	\$1,838,057	\$1,438,900	\$1,215,685	\$1,068,336	\$1,001,164	\$1,044,655	\$1,178,537	\$1,510,387	\$1,910,148	\$2,404,616	\$2,432,687	\$2,334,238	\$19,400,509
RPC	\$390,91	\$306,74	\$258,99	\$228,10	\$215,25	\$227,59	\$250,75	\$319,05	\$401,46	\$503,80	\$518,03	\$496,12	
(14)													
(15) Large C&I Number of Customers	1,470	1,469	1,468	1,467	1,466	1,467	1,470	1,473	1,475	1,477	1,479	1,480	
(16) Final Revenue Requirement	\$1,327,15	\$1,000,000	\$750,000	\$500,000	\$300,000	\$200,000	\$150,000	\$100,000	\$60,000	\$30,000	\$15,000	\$10,000	\$1,327,150
RPC	\$1,327,15	\$1,000,000	\$750,000	\$500,000	\$300,000	\$200,000	\$150,000	\$100,000	\$60,000	\$30,000	\$15,000	\$10,000	

**Schedule
AEL-8S**

**THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC DOCKET NO. 4846
SUPPLEMENTAL DISTRIBUTION ADJUSTMENT CHARGE FILING
WITNESS: ANN E. LEARY**

Schedule AEL-8S
ISR Reconciliation Factors

National Grid - RI Gas
FY 18 ISR Reconciliation Factors
Effective November 1, 2018

(1) Revenue Requirement	Rate Class	Allocation to Rate Class	Rate Base Allocator %	Actual Revenue	Difference	Under/(Over) Recovery	Total Over Recovery by Rate Class	Forecasted Throughput (dth)	ISR Recon (dth) (therm)	ISR Recon (therm)
(2) \$34,438,608	(b)	(d)	(c)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
(3) Res-NH	3.73%	\$1,284,908	\$1,340,352	(\$\$55,444)	\$10,520	(\$44,924)	337,218	(\$0,1332)		
(4) Res-H	61.56%	\$21,199,769	\$22,096,291	(\$896,521)	(\$214,192)	(\$1,110,714)	19,645,520	(\$0,0565)		
(5) Small	8.19%	\$2,819,497	\$3,136,156	(\$316,659)	(\$33,181)	(\$349,840)	2,492,721	(\$0,1403)		
(6) Medium	13.58%	\$4,677,909	\$4,903,392	(\$225,483)	(\$77,321)	(\$302,804)	5,728,335	(\$0,0528)		
(7) Large LL	6.04%	\$2,079,053	\$2,255,142	(\$176,090)	(\$48,023)	(\$224,112)	2,751,890	(\$0,0814)		
(8) Large HL	2.35%	\$810,798	\$888,460	(\$77,663)	\$516	(\$77,146)	1,159,166	(\$0,0665)		
(9) XL-LL	0.77%	\$264,808	\$277,976	(\$13,168)	\$572	(\$12,596)	1,212,598	(\$0,0103)		
(10) XL-HL	3.78%	\$1,301,867	\$1,346,801	(\$44,935)	\$4,775	(\$40,159)	6,359,583	(\$0,0063)		
(11) Total	100.00%	\$34,438,608	\$36,244,570	(\$1,805,962)	(\$356,334)	(\$2,162,296)	39,687,032			

- (a) Docket 4678, FY 18 ISR Cumulative Revenue Requirement filed August 2018.
- (c) Docket 4323, 2012 Rate Case
- (d) Col (a), Line (2) x Col (c), Lines (3) through (10) respectively
- (e) Page 2, Col (m), Lines (24) through (31)
- (f) Column (d) - Column (e)
- (g) AEL-10S - Pages 6-7 Column (l) Lines (25), (33), (41), (49), (57), (65), (73), (81)
- (h) Column (f) + Column (g)
- (i) Per Company Forecast
- (j) Column (h) ÷ Column (i)
- (k) Column (j) ÷ 10

National Grid - RI Gas
 FY 2018 Gas ISR

	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Total	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	
(1) Res-NH	Actual	\$1,5220	\$1,9377	\$1,8516	\$1,8483	\$1,8513	\$1,8538	\$1,8502	\$1,8513	\$1,8461	\$1,8483	\$1,8489		
(2) Res-H		\$0,9427	\$1,2405	\$1,1853	\$1,1832	\$1,1851	\$1,1867	\$1,1844	\$1,1851	\$1,1818	\$1,1832	\$1,1835		
(3) Small		\$0,9162	\$1,3474	\$1,2875	\$1,2852	\$1,2873	\$1,2891	\$1,2865	\$1,2873	\$1,2852	\$1,2853	\$1,2856		
(4) Medium		\$0,6505	\$0,9039	\$0,8637	\$0,8621	\$0,8635	\$0,8647	\$0,8636	\$0,8611	\$0,8621	\$0,8622	\$0,8624		
(5) Large LL		\$0,6099	\$0,8598	\$0,8216	\$0,8201	\$0,8215	\$0,8226	\$0,8210	\$0,8215	\$0,8192	\$0,8201	\$0,8204		
(6) Large HL		\$0,5821	\$0,8210	\$0,7845	\$0,7831	\$0,7844	\$0,7855	\$0,7839	\$0,7844	\$0,7822	\$0,7831	\$0,7834		
(7) XL-LL		\$0,1835	\$0,2433	\$0,2325	\$0,2320	\$0,2324	\$0,2327	\$0,2323	\$0,2324	\$0,2318	\$0,2320	\$0,2321		
(8) XL-HL		\$0,1815	\$0,2212	\$0,2114	\$0,2110	\$0,2114	\$0,2117	\$0,2113	\$0,2114	\$0,2108	\$0,2110	\$0,2111		
RI Firm Throughput (dth)														
(9) Res-NH	Actual	45,685	30,341	24,941	19,686	18,136	20,093	15,846	26,304	37,283	56,362	50,780	43,949	
(10) Res-H		2,470,609	1,086,418	723,631	458,490	407,982	416,197	422,553	1,134,674	2,297,654	4,213,704	3,393,879	2,629,662	389,404
(11) Small		329,980	110,717	71,536	45,841	39,544	41,570	41,501	118,001	292,995	617,299	466,242	354,014	19,655,450
(12) Medium		731,416	309,696	241,595	162,734	165,089	172,352	180,271	350,067	699,916	1,152,957	953,535	730,938	2,529,239
(13) Large LL		405,972	96,214	63,411	47,986	39,689	47,556	59,683	146,658	406,104	642,702	538,291	354,564	5,850,566
(14) Large HL		121,526	69,268	70,6054	66,071	62,338	69,366	71,462	151,934	157,787	149,112	103,393	1,161,752	2,848,829
(15) XL-LL		229,543	16,897	30,887	(4,087)	13,019	22,917	25,956	73,944	216,094	275,621	233,422	107,203	1,245,058
(16) XL-HL		709,035	39,0569	46,987	487,073	495,789	509,897	378,277	535,335	627,278	727,804	681,142	451,237	6,458,423
(17) Total		5,043,765	2,110,119	1,697,042	1,283,793	1,241,585	1,309,880	1,199,259	2,474,426	4,693,255	7,844,235	6,466,403	4,774,959	40,138,721
ISR Actual Revenue														
(18) Res-NH	Line (1) x Line (9)	\$69,533	\$58,792	\$46,179	\$36,385	\$33,575	\$37,249	\$29,318	\$48,699	\$68,829	\$104,171	\$93,865	\$81,255	\$70,850
(19) Res-H	Line (2) x Line (10)	\$2,39,116	\$1,347,647	\$85,709	\$54,2465	\$483,494	\$493,912	\$500,480	\$1,344,737	\$2,715,359	\$4,985,545	\$4,015,997	\$3,112,332	\$22,728,793
(20) Small	Line (3) x Line (11)	\$302,318	\$149,181	\$92,102	\$58,913	\$50,904	\$53,497	\$53,481	\$151,904	\$736,116	\$793,346	\$599,276	\$455,119	\$3,136,156
(21) Medium	Line (4) x Line (12)	\$475,813	\$279,922	\$208,657	\$140,296	\$142,557	\$149,036	\$158,580	\$302,302	\$602,714	\$933,995	\$822,360	\$630,360	\$4,903,392
(22) Large LL	Line (5) x Line (13)	\$247,619	\$82,726	\$52,097	\$39,354	\$32,602	\$39,119	\$48,999	\$120,476	\$332,666	\$527,093	\$441,513	\$290,878	\$2,255,142
(23) Large HL	Line (6) x Line (14)	\$70,738	\$56,871	\$59,666	\$51,740	\$48,897	\$62,340	\$56,022	\$70,159	\$90,684	\$123,565	\$116,784	\$80,995	\$888,460
(24) XL-LL	Line (7) x Line (15)	\$42,126	\$41,110	\$71,180	(948)	\$3,025	\$5,334	\$6,874	\$17,187	\$50,083	\$63,953	\$54,168	\$24,883	\$277,976
(25) XL-HL	Line (8) x Line (16)	\$128,684	\$86,412	\$98,302	\$102,786	\$104,796	\$107,927	\$79,912	\$132,221	\$113,159	\$153,590	\$143,758	\$92,255	\$1,346,801
(26) Total	Sum (18)-(25)	\$3,665,947	\$2,065,662	\$1,421,892	\$970,990	\$899,851	\$948,414	\$950,666	\$2,168,622	\$4,368,671	\$7,745,258	\$6,287,520	\$4,771,975	\$36,244,570
Res-H & Res-NH Revenue Adj.														
(27) Projected Firm Throughput (dth)	Docket No. 4678	78,155	53,411	35,271	25,629	24,348	25,656	35,674	58,723	85,787	106,186	108,017	94,810	731,668
(28) Actual Firm Throughput (dth)	Line (9)	45,685	30,341	24,941	19,686	18,136	20,093	15,846	26,304	37,283	56,362	50,780	43,949	389,404
(29) Difference	Line (27) - Line (28)	32,471	23,071	10,330	5,943	6,212	5,563	19,828	32,419	48,504	49,825	57,237	50,861	342,263
(30) ISR Rate w/o Uncollectibles	Docket No. 4678	\$1,8480	\$1,8480	\$1,8480	\$1,8480	\$1,8480	\$1,8480	\$1,8480	\$1,8480	\$1,8480	\$1,8480	\$1,8480	\$1,8480	\$632,502
(31) Adjusted Revenue	Line (29) x Line (30)	\$60,006	\$42,635	\$19,091	\$10,982	\$11,479	\$10,281	\$36,643	\$59,910	\$89,636	\$92,077	\$105,774	\$93,991	
ISR Adjusted Revenue														
(32) Res-NH	Line (18) + Line (31)	\$129,538	\$101,426	\$65,270	\$47,367	\$45,054	\$47,530	\$45,961	\$108,608	\$158,464	\$196,248	\$199,639	\$175,246	\$1,340,352
(33) Res-H	Line (19) - Line (31)	\$2,269,110	\$1,30,012	\$838,618	\$531,483	\$472,015	\$483,632	\$463,837	\$128,482	\$2,62,573	\$4,893,469	\$3,910,223	\$3,018,341	\$22,096,291
(34) Small	Line (20)	\$302,318	\$149,181	\$92,102	\$58,913	\$50,094	\$53,497	\$53,481	\$151,904	\$376,116	\$599,276	\$51,119	\$31,336,156	
(35) Medium	Line (21)	\$475,813	\$279,922	\$208,657	\$140,296	\$142,557	\$149,036	\$155,580	\$302,302	\$602,714	\$933,995	\$822,159	\$630,360	\$4,903,392
(36) Large LL	Line (22)	\$247,619	\$82,726	\$52,097	\$39,354	\$32,602	\$39,119	\$48,999	\$120,476	\$332,666	\$527,093	\$441,513	\$290,878	\$2,255,142
(37) Large HL	Line (23)	\$70,738	\$56,871	\$59,666	\$51,740	\$48,897	\$62,340	\$56,022	\$70,159	\$90,684	\$123,565	\$116,784	\$80,995	\$888,460
(38) XL-LL	Line (24)	\$42,126	\$41,110	\$71,180	(948)	\$3,025	\$5,334	\$6,874	\$17,187	\$50,083	\$63,953	\$54,168	\$24,883	\$277,976
(39) XL-HL	Line (25)	\$128,684	\$86,412	\$98,302	\$102,786	\$104,796	\$107,927	\$79,912	\$113,159	\$132,221	\$153,590	\$143,758	\$92,255	\$1,346,801
(40) Total	Sum [32]:(39)	\$3,665,947	\$2,065,662	\$1,421,892	\$970,990	\$899,851	\$948,414	\$930,666	\$2,168,622	\$4,368,671	\$7,745,258	\$6,287,520	\$4,771,075	\$36,244,570

**Schedule
AEI-9**

**THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC DOCKET NO. 4846
SUPPLEMENTAL DISTRIBUTION ADJUSTMENT CHARGE FILING
WITNESS: ANN E. LEARY**

Schedule AEL-9
Firm Revenue Credit Factor

Revenue Credit per Docket 4323
 FY 2018

Month Bill Applies (a)	Therms (b)	<u>Distribution Charges</u>			Total (f)	50% Credit (g)
		<u>Customer</u> <u>Charge</u> (c)	<u>Distribution</u> <u>Charge</u> (d)	<u>Demand</u> <u>Charge</u> (e)		
(1) Mar-2018	626,986	\$425	\$16,051	\$36,677	\$53,153	\$26,577
(2) Feb-2018	588,236	\$425	\$15,059	\$36,677	\$52,161	\$26,081
(3) Jan-2018	636,372	\$425	\$16,291	\$36,677	\$53,393	\$26,697
(4) Dec-2017	635,040	\$425	\$16,257	\$36,677	\$53,359	\$26,680
(5) Nov-2017	630,661	\$425	\$16,145	\$36,677	\$53,247	\$26,624
(6) Oct-2017	639,172	\$425	\$16,363	\$36,942	\$53,730	\$26,865
(7) Sep-2017	310,717	\$425	\$7,954	\$36,942	\$45,321	\$22,661
(8) Aug-2017	701,763	\$425	\$17,965	\$36,942	\$55,332	\$27,666
(9) Jul-2017	712,859	\$425	\$18,249	\$36,942	\$55,616	\$27,808
(10) Jun-2017	661,135	\$425	\$16,925	\$36,942	\$54,292	\$27,146
(11) May-2017	672,168	\$425	\$17,208	\$36,942	\$54,575	\$27,287
(12) Apr-2017	617,013	\$425	\$15,796	\$36,942	\$53,163	\$26,581
(13) Total	7,432,123	\$5,100	\$190,262	\$441,981	\$637,344	\$318,672

Lines (1)-(12) Columns (a) through (e): Data provided from the Company's billing system.

Col (g) As noted in the Settlement Agreement in Docket 4323, Article III, Section A.4,
 50% of distribution revenue will be credited back to customers.

**Schedule
AEL-10S**

**THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC DOCKET NO. 4846
SUPPLEMENTAL DISTRIBUTION ADJUSTMENT CHARGE FILING
WITNESS: ANN E. LEARY**

Schedule AEL-10S
Reconciliation Factors

National Grid - RI Gas
Reconciliation Factor effective November 1, 2018

<u>Description</u>	<u>Schedule</u>	<u>Page #</u>	<u>Ending Balance</u>	<u>Period</u>
Section 1: Reconciliation of Prior Year DAC Factors (All Rate Classes)				
(1) System Pressure		Page 2, line (9)	(\$59,894)	Based on Nov 17-Oct 18
(2) AGT Factor		Page 2, line (17)	\$0	Based on Apr 17 - Mar 18
(3) Environmental - DAC		Page 2, line (25)	\$285	Based on Nov 17-Oct 18
(4) On-System Margin Credits		Page 3, line (49)	\$1,399	Based on Nov 17-Oct 18
(5) Pension		Page 3, line (57)	(\$4,701)	Based on Nov 17-Oct 18
(6) PBOP		Page 3, line (65)	\$62,278	Based on Nov 17-Oct 18
(7) Previous Reconciliation Factor		Page 2, line (33)	\$45,336	Based on Nov 17-Oct 18
(8) Earnings Sharing Mechanism		Page 3, line (73)	\$0	Based on Nov 17-Oct 18
(9) True-up October 17		Page 8, line (24)	\$13,009	Based on Actual Oct 17 vs. Oct 17 Forecast
(10) AGT Interest on Fund balance	AEL-3S, page 2, line (16), col (m)		(\$23,792)	Based on Actual Oct 17 vs. Oct 17 Forecast
(11) Revenue Credit per Docket 4323	AEL-9, line (13), col (g)		(\$318,672)	Based on Apr 17 - Mar 18
(12) Sub Total		Sum [(1):(11)]	(\$284,751)	
(13) Firm Throughput		Nov 2018 - Oct 2019	39,687,032	dth
(14) Reconciliation Factor		Line (12) ÷ Line (13)	(\$0.0071)	per dth
(15) Reconciliation Factor		Line (14) ÷ 10, truncated to 4 decimal places	(\$0.0007)	per therm

Section 2: Revenue Decoupling Mechanism Reconciliation

(16) RDA Reconciliation		Page 5, line (13)	\$22,054	Based on Nov 17-Oct 18
(17) RDM Recon Reconciliation		Page 5, line (27)	\$85,565	Based on Nov 17-Oct 18
(18) Sub Total		Line (16) + Line (17)	\$107,619	
(19) Firm Throughput, Residential, Small & Medium C&I		Nov 2018 - Oct 2019	28,203,795	dth
(20) RDA Reconciliation Factor		Line (18) ÷ Line (19)	\$0.0038	per dth
(21) RDA Reconciliation Factor		Line (20) ÷ 10, truncated to 4 decimal places	\$0.0003	per therm

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

(22) AGT Factor - Base Rates		Page 4, line (18)	(\$15,620)	Based on Apr 17 - Mar 18
(23) LIAP Factor - Base Rates		Page 4, line (30)	(\$93,403)	Based on Apr 17 - Mar 18
(24) Environmental - Base Rates		Page 4, line (41)	(\$68,548)	Based on Apr 17 - Mar 18
(25) Previous Reconciliation Factor		Page 3, line (41)	(\$2,703)	Based on Nov 17-Oct 18
(26) Sub Total		Sum [(22):(25)]	(\$180,274)	
(27) Firm Throughput, Large and Extra Large C&I		Nov 2018 - Oct 2019	11,483,237	dth
(28) L / XL Reconciliation Factor		Line (26) ÷ Line (27)	(\$0.0156)	per dth
(29) L / XL Reconciliation Factor		Line (28) ÷ 10, truncated to 4 decimal places	(\$0.0015)	per therm

(29) Combined with the Reconciliation factor of (\$0.0007) per therm on Line (15) for an overall Large and Extra Large Reconciliation factor of (\$0.0022) per therm

National Grid - RI Gas											
Non-Base Rate / Gas Year Reconciling Components											
	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Oct-18
	30	31	31	28	31	30	31	30	31	31	31
(a)	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Forecast	Forecast
(b)										(i)	(i)
(c)										(k)	(k)
(d)											
(e)											
(f)											
(g)											
(h)											
(i)											
(j)											
(k)											
(l)											
(1) System Pressure Recon Adjust.											
(2) System Pressure Acct Beg. Balance Under/(Over) Recovery	\$0	\$124,346	\$16,898	\$340,431)	\$589,500)	\$705,514)	\$853,281)	\$828,063)	\$668,984)	\$346,147)	\$190,809)
(3) Actual Costs	\$26,800	\$26,800	\$26,800	\$26,800	\$26,800	\$26,800	\$26,800	\$26,800	\$26,800	\$26,800	\$0
(4) Actual Revenue	\$138,569	\$370,390	\$619,786	\$510,978	\$37,397	\$408,807	\$235,621	\$101,954	\$131,566	\$3,202,051	\$3,202,051
(5) Ending Balance Under/(Over) Recovery	\$124,231	\$16,756	\$340,088)	\$588,609)	\$704,097)	\$851,521)	\$826,102)	\$667,217)	\$690,148)	\$59,575)	\$48,451)
(6) Average Monthly Balance Under/(Over) Recovery	\$62,116	\$70,551	\$161,595)	\$464,520)	\$46,798)	\$778,518)	\$839,992)	\$747,640)	\$25,531)	\$125,192)	
(7) Bk America Rate less 200 Basis Points	2.25%	2.38%	2.50%	2.50%	2.58%	2.50%	2.75%	2.75%	2.88%	3.00%	3.00%
(8) Interest Applied	\$115	\$142	\$343)	\$343)	\$343)	\$343)	\$343)	\$343)	\$343)	\$343)	\$343)
(9) Sys Pressure End Balance Under/(Over) Recovery	\$124,346	\$16,898	\$340,431)	\$589,500)	\$705,514)	\$853,281)	\$828,063)	\$668,984)	\$346,147)	\$190,809)	\$59,894)
(10) Advanced Gas Technology											
(11) AGT Acct Beg. Balance Under/(Over) Recovery	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(12) Actual AGT Revenue	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(13) Ending AGT Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(14) Average Monthly Balance Under/(Over) Recovery	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(15) Bk America Rate less 200 Basis Points	2.25%	2.38%	2.50%	2.50%	2.58%	2.50%	2.75%	2.75%	2.88%	3.00%	3.00%
(16) Interest Applied	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(17) AGT End Balance Under/(Over) Recovery	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(18) Environmental Recon. Adjust - DAC											
(19) Environmental Acct Beg. Balance Under/(Over) Recovery	\$967,642	\$923,530	\$812,757	\$625,992	\$471,810	\$358,067	\$234,542	\$163,425	\$132,801	\$103,049	\$72,510
(20) Actual Environmental Revenue	\$45,859	\$112,523	\$188,290	\$155,234	\$114,652	\$124,194	\$71,581	\$30,973	\$30,052	\$30,763	\$32,446
(21) Ending Environmental Balance Under/(Over) Recovery	\$921,783	\$811,007	\$624,467	\$707,758	\$557,158	\$233,873	\$162,961	\$132,452	\$102,49	\$72,286	\$40,064
(22) Average Monthly Balance Under/(Over) Recovery	\$944,713	\$867,269	\$718,612	\$548,375	\$414,484	\$295,970	\$198,751	\$147,938	\$117,775	\$87,668	\$56,287
(23) Bk America Rate less 200 Basis Points	2.25%	2.38%	2.50%	2.50%	2.58%	2.50%	2.75%	2.75%	2.88%	3.00%	3.00%
(24) Interest Applied	\$1,747	\$1,749	\$1,526	\$1,052	\$208	\$669	\$464	\$350	\$300	\$223	\$139
(25) Environmental Recon End Balance Under/(Over) Recovery	\$923,530	\$812,757	\$625,992	\$471,810	\$358,067	\$234,542	\$163,425	\$132,801	\$103,049	\$72,510	\$40,203
(26) Reconciliation Factor (Applicable to all) - DAC											
(27) Recon Factor Acct Beg. Balance Under/(Over) Recovery	\$34,587	\$44,204	\$44,293	\$44,387	\$44,472	\$44,570	\$44,671	\$44,775	\$44,881	\$44,995	\$45,110
(28) Actual Recon Revenue	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(29) Ending Recon Balance Under/(Over) Recovery	\$44,131	\$44,204	\$44,293	\$44,387	\$44,472	\$44,570	\$44,671	\$44,775	\$44,881	\$44,995	\$45,110
(30) Average Monthly Balance Under/(Over) Recovery	\$33,591	\$44,204	\$44,293	\$44,387	\$44,472	\$44,570	\$44,671	\$44,775	\$44,881	\$44,995	\$45,110
(31) Bk America Rate less 200 Basis Points	2.25%	2.38%	2.50%	2.50%	2.58%	2.50%	2.75%	2.75%	2.88%	3.00%	3.00%
(32) Interest Applied	\$73	\$89	\$85	\$94	\$97	\$101	\$104	\$106	\$114	\$115	\$111
(33) Reconciliation End Balance Under/(Over) Recovery	\$44,204	\$44,293	\$44,387	\$44,472	\$44,570	\$44,671	\$44,775	\$44,881	\$44,995	\$45,110	\$45,221

National Grid - RI Gas Non-Base Rate / Gas Year Reconciling Components											
Nov-17 30 Actual	Dec-17 31 Actual	Jan-18 31 Actual	Feb-18 28 Actual	Mar-18 31 Actual	Apr-18 30 Actual	May-18 31 Actual	Jun-18 30 Actual	Jul-18 31 Actual	Aug-18 31 Forecast	Sep-18 30 Forecast	Oct-18 31 Forecast
(34) Reconciliation Factor (L & XL) - DAC											
(35) Recon Factor Act Beg. Balance Under/(Over) Recovery	(\$135,578)	(\$126,037)	(\$111,272)	(\$91,642)	(\$74,174)	(\$63,139)	(\$47,692)	(\$37,789)	(\$26,418)	(\$19,039)	(\$11,588)
(36) Actual Recon Revenue (L & XL)	(\$9,782)	(\$15,004)	(\$19,846)	(\$17,627)	(\$11,185)	(\$15,572)	(\$10,003)	(\$5,216)	(\$6,313)	(\$7,437)	(\$8,903)
(37) Ending Recon Balance Under/(Over) Recovery	(\$125,796)	(\$111,033)	(\$91,426)	(\$74,015)	(\$62,989)	(\$47,567)	(\$37,689)	(\$52,573)	(\$26,543)	(\$11,550)	(\$2,685)
(38) Average Monthly Balance Under/(Over) Recovery	(\$130,687)	(\$118,555)	(\$101,349)	(\$82,288)	(\$68,581)	(\$55,353)	(\$42,690)	(\$55,181)	(\$22,999)	(\$15,294)	(\$7,136)
(39) Bk America Rate less 200 Basis Points	2.25%	2.38%	2.50%	2.50%	2.58%	2.75%	2.75%	2.88%	3.00%	3.00%	3.00%
(40) Interest Applied	\$242	\$239	\$215	\$159	\$150	\$125	\$100	\$83	\$75	\$58	\$18
(41) Reconciliation End Balance Under/(Over) Recovery	(\$126,037)	(\$111,272)	(\$91,642)	(\$74,174)	(\$63,139)	(\$47,692)	(\$37,789)	(\$26,656)	(\$26,418)	(\$11,588)	(\$2,703)
(42) On-system Credit Recon. Adjust. - DAC											
(43) On-system Credit Acct Beg. Balance Under/(Over) Recovery	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(44) Actual On-system Revenue	(\$1,363)	\$1,364	\$1,367	\$1,370	\$1,373	\$1,376	\$1,379	\$1,382	\$1,385	\$1,392	\$1,396
(45) Ending On-system Balance Under/(Over) Recovery	\$1,363	\$1,364	\$1,367	\$1,370	\$1,373	\$1,376	\$1,379	\$1,382	\$1,385	\$1,392	\$1,396
(46) Average Monthly Balance Under/(Over) Recovery	\$682	\$1,364	\$1,367	\$1,370	\$1,373	\$1,376	\$1,379	\$1,382	\$1,385	\$1,392	\$1,396
(47) Bk America Rate less 200 Basis Points	2.25%	2.38%	2.50%	2.50%	2.58%	2.75%	2.75%	2.88%	3.00%	3.00%	3.00%
(48) Interest Applied	\$1	\$1	\$1	\$1	\$1	\$1	\$1	\$1	\$1	\$1	\$1
(49) On-system Credit End Balance Under/(Over) Recovery	\$1,364	\$1,367	\$1,370	\$1,373	\$1,376	\$1,379	\$1,382	\$1,385	\$1,392	\$1,396	\$1,399
(50) Pension Adjustment											
(51) Pen Acct Beg. Balance Under/(Over) Recovery	(\$2,108,263)	(\$2,043,433)	(\$1,798,815)	(\$1,386,388)	(\$1,045,910)	(\$794,735)	(\$521,958)	(\$364,918)	(\$297,300)	(\$231,609)	(\$164,177)
(52) Actual Pension Revenue	(\$68,665)	(\$248,490)	(\$415,805)	(\$342,808)	(\$253,190)	(\$274,263)	(\$158,074)	(\$68,400)	(\$66,364)	(\$71,651)	(\$92,843)
(53) Ending Pension Balance Under/(Over) Recovery	(\$2,039,598)	(\$1,794,943)	(\$1,383,010)	(\$1,043,580)	(\$792,720)	(\$520,472)	(\$363,884)	(\$296,518)	(\$230,936)	(\$163,674)	(\$88,266)
(54) Average Monthly Balance Under/(Over) Recovery	(\$2,073,930)	(\$1,919,188)	(\$1,590,912)	(\$1,214,984)	(\$919,315)	(\$657,603)	(\$442,921)	(\$320,718)	(\$264,911)	(\$197,641)	(\$123,911)
(55) Bk America Rate less 200 Basis Points	2.25%	2.38%	2.50%	2.50%	2.58%	2.75%	2.75%	2.88%	3.00%	3.00%	3.00%
(56) Interest Applied	\$3,835	\$3,871	\$2,378	\$2,340	\$2,015	\$1,486	\$1,034	\$781	\$673	\$504	\$20,349
(57) Pension Adjustment End Balance Under/(Over) Recovery	(\$2,043,433)	(\$1,798,815)	(\$1,386,388)	(\$1,045,910)	(\$794,735)	(\$521,958)	(\$364,918)	(\$297,300)	(\$231,609)	(\$164,177)	(\$92,843)
(58) PBOP Adjustment											
(59) PBOP Acct Beg. Balance Under/(Over) Recovery	(\$2,571,711)	(\$2,439,754)	(\$2,139,616)	(\$1,633,667)	(\$1,215,972)	(\$907,781)	(\$573,093)	(\$380,340)	(\$297,253)	(\$216,516)	(\$133,646)
(60) Actual PBOP Revenue	(\$136,587)	(\$304,752)	(\$509,950)	(\$420,425)	(\$310,516)	(\$336,360)	(\$193,865)	(\$83,887)	(\$83,316)	(\$87,874)	(\$108,250)
(61) Ending PBOP Balance Under/(Over) Recovery	(\$2,435,124)	(\$2,135,002)	(\$1,629,666)	(\$1,213,242)	(\$905,456)	(\$571,421)	(\$379,228)	(\$215,453)	(\$215,200)	(\$45,772)	(\$62,257)
(62) Average Monthly Balance Under/(Over) Recovery	(\$2,503,418)	(\$2,287,378)	(\$1,884,641)	(\$1,423,455)	(\$1,060,714)	(\$739,601)	(\$476,160)	(\$338,397)	(\$256,558)	(\$174,858)	(\$87,709)
(63) Bk America Rate less 200 Basis Points	2.25%	2.38%	2.50%	2.50%	2.58%	2.75%	2.75%	2.88%	3.00%	3.00%	3.00%
(64) Interest Applied	\$4,630	\$4,614	\$4,002	\$2,730	\$2,252	\$1,672	\$1,112	\$800	\$654	\$221	\$23,183
(65) PBOP Adjustment End Balance Under/(Over) Recovery	(\$2,439,754)	(\$2,139,616)	(\$1,633,667)	(\$1,215,972)	(\$907,781)	(\$573,093)	(\$380,340)	(\$297,253)	(\$216,516)	(\$133,646)	(\$92,843)
(66) Earnings Sharing Mechanism											
(67) ESM Acct Beg. Balance Under/(Over) Recovery	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(68) Actual ESM Revenue	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(69) Ending ESM Balance Under/(Over) Recovery	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(70) Average Monthly Balance Under/(Over) Recovery	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(71) Bk America Rate less 200 Basis Points	2.25%	2.38%	2.50%	2.50%	2.58%	2.75%	2.75%	2.88%	3.00%	3.00%	3.00%
(72) Interest Applied	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(73) ESM Adjustment End Balance Under/(Over) Recovery	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Column (a), Line (11), per Docket 4708, AEL-1S, Page 1, Line (2).

Column (a), Line (19), per Docket 4708, AEL-1S, Page 1, Line (4).

Column (a), Line (27), per Docket 4708, AEL-10S, Page 1, Line (12).

Column (a), Line (43), per Docket 4708, AEL-10S, Page 1, Line (6).

Column (a), Line (51), per Docket 4708, AEL-1S, Page 1, Line (3).

Column (a), Line (59), per Docket 4708, AEL-1S, Page 1, Line (9).

Column (a), Line (67), per Docket 4708, AEL-1S, Page 1, Line (9).

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

	Apr-17 30	May-17 31	Jun-17 30	Jul-17 31	Aug-17 31	Sep-17 30	Oct-17 31	Nov-17 30	Dec-17 31	Jan-18 31	Feb-18 28	Mar-18 31	12 month End Actual
DAC FACTORS: \$/dth													
(1) ACT 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
(2) 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
(3) LIHEAP Factor - Base Rates	\$0.0444	\$0.0444	\$0.0444	\$0.0444	\$0.0444	\$0.0444	\$0.0444	\$0.0444	\$0.0444	\$0.0444	\$0.0444	\$0.0444	\$0.0444
(4) Low Income Weatherization Factor - Base Rates	\$0.0056	\$0.0056	\$0.0056	\$0.0056	\$0.0056	\$0.0056	\$0.0056	\$0.0056	\$0.0056	\$0.0056	\$0.0056	\$0.0056	\$0.0056
(5) 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
RI Firm Forecasted Throughput (dth) [Feb 13 - Jan 14 (Rate Year)]	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	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
Actual RI Firm L-XL Firm through-put (dth)	1,466,076	572,948	635,339	597,043	610,835	659,736	539,018	845,381	1,365,409	1,803,913	1,601,967	1,016,397	9,039,699
AGT Recon. Adjustment - Base Rates L-XL													
(8) AGT Recon. Acct Beg. Balance Under/(Over) Recovery	\$0	(\$3,987)	(\$2,754)	(\$3,447)	(\$4,009)	(\$5,138)	(\$6,078)	(\$5,672)	(\$6,310)	(\$8,856)	(\$14,255)	(\$17,108)	(\$82,980)
(9) Fest 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
(10) Fest L-XL AGT Collections	\$8,344	\$6,054	\$4,652	\$4,461	\$4,012	\$4,613	\$4,943	\$6,476	\$8,944	\$10,634	\$10,051	\$82,968	
(11) Actual Firm Through-put L-XL	1,466,076	572,948	635,339	597,043	610,835	659,736	539,018	845,381	1,365,409	1,803,913	1,601,967	1,016,397	11,714,062
(12) Actual ACT Collections	\$12,328	\$4,818	\$5,342	\$5,020	\$5,136	\$5,547	\$5,532	\$7,108	\$11,481	\$15,168	\$13,470	\$8,546	
(13) Collection Variance	(\$3,984)	\$1,236	(\$690)	(\$559)	(\$1,124)	(\$934)	(\$411)	(\$632)	(\$5,384)	(\$2,836)	(\$1,505)	\$98,496	
(14) Ending Balance Under/(Over) Recovery	(\$3,984)	(\$2,751)	(\$3,444)	(\$4,006)	(\$5,133)	(\$6,072)	(\$5,667)	(\$6,304)	(\$8,847)	(\$14,240)	(\$15,091)	(\$15,603)	
(15) Average Balance Under/(Over) Recovery	(\$1,992)	(\$1,376)	(\$1,722)	(\$2,003)	(\$2,567)	(\$3,036)	(\$2,833)	(\$3,152)	(\$4,424)	(\$7,120)	(\$8,546)	(\$7,801)	
(16) Bk America Rate less 200 Basis Points	2.00%	2.13%	2.25%	2.25%	2.25%	2.25%	2.25%	2.25%	2.25%	2.38%	2.50%	2.58%	
(17) Interest Applied	(\$53)	(\$52)	(\$54)	(\$54)	(\$55)	(\$56)	(\$55)	(\$56)	(\$56)	(\$59)	(\$16)	(\$17)	(\$52)
(18) AGT End Balance Under/(Over) Recovery	(\$3,987)	(\$2,754)	(\$3,447)	(\$4,009)	(\$5,138)	(\$6,078)	(\$5,672)	(\$6,310)	(\$8,856)	(\$14,255)	(\$17,108)	(\$15,620)	(\$15,620)
LIAP Recon. Adjustment - Base Rates L-XL													
(19) LIAP Recon. Acct Beg. Balance Under/(Over) Recovery	\$0	(\$23,722)	(\$16,399)	(\$20,537)	(\$23,905)	(\$30,645)	(\$30,266)	(\$33,266)	(\$33,887)	(\$37,718)	(\$52,905)	(\$85,089)	(\$102,142)
(20) Fest 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
(21) Fest LIAP Collections	\$49,645	\$36,023	\$27,681	\$26,545	\$23,872	\$27,448	\$29,414	\$38,530	\$53,216	\$58,214	\$63,273	\$493,665	
(22) Actual Firm Through-put L-XL	1,466,076	572,948	635,339	597,043	610,835	659,736	539,018	845,381	1,365,409	1,803,913	1,601,967	1,016,397	11,714,062
(23) Actual LIAP Collections No EE	\$65,130	\$25,453	\$28,225	\$27,136	\$29,309	\$29,946	\$37,556	\$60,658	\$80,139	\$71,167	\$45,153	\$20,396	
(24) Actual LIAP Collections EE Only	\$8,218	\$3,562	\$3,347	\$3,424	\$3,698	\$3,022	\$4,739	\$7,654	\$10,112	\$9,980	\$5,698	\$65,666	
(25) Collection Variance	(\$23,703)	(\$7,358)	(\$4,106)	(\$3,326)	(\$6,688)	(\$5,559)	\$2,446	(\$3,765)	(\$10,096)	(\$32,037)	(\$16,874)	\$8,953	
(26) Ending Balance Under/(Over) Recovery	(\$23,703)	(\$16,364)	(\$20,505)	(\$23,863)	(\$30,593)	(\$36,204)	(\$33,820)	(\$37,652)	(\$52,814)	(\$84,942)	(\$10,963)	(\$93,189)	
(27) Average Balance Under/(Over) Recovery	(\$11,852)	(\$20,043)	(\$18,452)	(\$22,200)	(\$27,249)	(\$33,425)	(\$35,043)	(\$35,770)	(\$45,266)	(\$68,924)	(\$93,526)	(\$97,666)	
(28) Bk America Rate less 200 Basis Points	2.00%	2.13%	2.25%	2.25%	2.25%	2.25%	2.25%	2.25%	2.25%	2.38%	2.50%	2.58%	
(29) Interest Applied	(\$51)	(\$34)	(\$32)	(\$42)	(\$52)	(\$62)	(\$62)	(\$62)	(\$62)	(\$91)	(\$146)	(\$179)	(\$214)
(30) LIAP End Balance Under/(Over) Recovery	(\$23,722)	(\$16,399)	(\$20,537)	(\$23,905)	(\$30,645)	(\$36,266)	(\$33,887)	(\$37,718)	(\$52,905)	(\$85,089)	(\$102,142)	(\$93,403)	(\$93,403)
Environmental Recon. Adjust - Base Rates L-XL													
(31) Environmental Recon. Acct Beg. Balance Under/(Over) Recovery	\$0	(\$17,410)	(\$12,935)	(\$15,072)	(\$17,549)	(\$22,490)	(\$26,616)	(\$24,870)	(\$27,681)	(\$38,827)	(\$62,447)	(\$74,962)	
(32) Fest 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
(33) Fest Environmental Collections	\$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
(34) Actual Firm Through-put L-XL	1,466,076	572,948	635,339	597,043	610,835	659,736	539,018	845,381	1,365,409	1,803,913	1,601,967	1,016,397	11,714,062
(35) Actual Environmental Collections	\$53,830	\$21,037	\$23,328	\$21,922	\$22,428	\$24,224	\$19,791	\$31,040	\$50,134	\$66,235	\$58,820	\$37,319	\$430,108
(36) Collection Variance	(\$17,396)	\$5,400	(\$3,013)	(\$2,441)	(\$4,908)	(\$4,080)	\$1,795	(\$2,763)	(\$11,079)	(\$23,512)	(\$12,384)	\$6,571	
(37) Ending Environmental Balance Under/(Over) Recovery	(\$17,396)	(\$12,010)	(\$15,048)	(\$17,513)	(\$22,452)	(\$26,570)	(\$24,821)	(\$27,633)	(\$38,760)	(\$62,339)	(\$74,831)	(\$68,391)	
(38) Average Balance Under/(Over) Recovery	(\$8,658)	(\$14,710)	(\$13,542)	(\$16,292)	(\$19,998)	(\$24,530)	(\$25,718)	(\$26,251)	(\$33,221)	(\$50,583)	(\$71,677)	(\$68,639)	
(39) Bk America Rate less 200 Basis Points	2.00%	2.13%	2.25%	2.25%	2.25%	2.25%	2.25%	2.25%	2.25%	2.38%	2.50%	2.58%	
(40) Interest Applied	(\$51)	(\$25)	(\$24)	(\$31)	(\$38)	(\$45)	(\$45)	(\$45)	(\$45)	(\$67)	(\$107)	(\$132)	(\$157)
(41) Environmental End Balance Under/(Over) Recovery	(\$17,410)	(\$12,035)	(\$15,072)	(\$17,544)	(\$22,490)	(\$26,616)	(\$24,870)	(\$27,681)	(\$38,827)	(\$62,447)	(\$74,962)	(\$68,548)	(\$68,548)

Lines (1)-(6): Docket 4323
 Line (7): Company's Classified Sales Report

National Grid - RI Gas
RDA Reconciliation

	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Total
	30	31	31	28	31	30	31	30	31	31	30	31	(m)
(1) Actual Firm Throughput - decatherms													
(2) Res-NH	26,304	37,283	56,362	50,780	43,949	42,785	31,770	21,426	17,726	14,197	15,072	17,788	375,441
(3) Res-H	1,134,674	2,297,654	4,213,704	3,393,879	2,629,662	2,640,658	1,423,779	552,038	439,244	378,733	439,199	549,199	20,092,398
(4) Small	118,001	292,995	617,299	466,242	354,014	338,241	164,875	55,343	45,400	44,471	51,076	64,219	2,612,175
(5) Medium	<u>350,067</u>	<u>699,916</u>	<u>1,152,957</u>	<u>953,535</u>	<u>730,938</u>	<u>738,673</u>	<u>417,514</u>	<u>186,669</u>	<u>172,119</u>	<u>165,735</u>	<u>168,314</u>	<u>224,869</u>	<u>5,961,305</u>
(6) Total	1,629,045	3,327,848	6,040,321	4,864,436	3,758,562	3,760,357	2,037,937	815,476	674,489	605,715	671,082	856,051	29,041,319
(7) RDM Acct Beg. Balance	\$179,860	\$185,007	\$165,413	\$129,479	\$100,505	\$78,139	\$55,735	\$43,411	\$38,609	\$34,633	\$31,083	\$27,128	
(8) Actual RDM Revenue	(\$4,810)	\$19,947	\$36,247	\$29,195	\$22,561	\$12,439	\$4,899	\$4,069	\$3,634	\$4,026	\$5,136		
(9) Ending RDM Balance Under/(Over) Recovery	\$184,670	\$165,060	\$129,166	\$100,284	\$77,943	\$55,584	\$43,296	\$38,513	\$34,540	\$30,999	\$27,056	\$21,992	
(10) Average Monthly Balance	\$182,265	\$175,034	\$147,290	\$114,881	\$89,224	\$66,861	\$49,515	\$40,962	\$36,575	\$32,816	\$29,070	\$24,560	
(11) Bk America Rate less 200 Basis Points	2.25%	2.38%	2.50%	2.58%	2.50%	2.75%	2.75%	2.75%	2.88%	3.00%	3.00%	3.00%	\$24,560
(12) Interest Applied	\$337	\$353	\$313	\$220	\$196	\$151	\$116	\$97	\$93	\$84	\$72	\$63	\$4,356
(13) RDM Recon End Balance Under/(Over) Recovery	\$185,007	\$165,413	\$129,479	\$100,505	\$78,139	\$55,735	\$43,411	\$38,609	\$34,633	\$31,083	\$27,128	<u>\$22,054</u>	
(14) RDM Revenue per rate class													
(15) Res-NH	(\$78)	\$223	\$338	\$305	\$264	\$257	\$194	\$129	\$107	\$85	\$90	\$107	\$2,021
(16) Res-H	(\$3,350)	\$13,772	\$25,286	\$20,369	\$15,859	\$15,839	\$8,991	\$3,316	\$2,650	\$2,272	\$2,635	\$3,295	\$110,560
(17) Small	(\$348)	\$1,756	\$3,704	\$2,798	\$2,125	\$2,029	\$1,006	\$332	\$274	\$267	\$306	\$385	\$14,635
(18) Medium	(\$1,034)	\$4,195	\$6,919	\$5,723	\$4,388	\$4,431	\$2,548	\$1,121	\$1,038	\$1,010	\$994	\$1,349	\$32,683
(19) Total	(\$4,810)	\$19,947	\$36,247	\$29,195	\$22,561	\$22,555	\$12,439	\$4,899	\$4,069	\$3,634	\$4,026	\$5,136	\$159,899
(20) RDM Recon Adjustment													
(21) RDM Recon Acct Beg. Balance Under/(Over) Recovery	\$298,047	\$355,933	\$323,373	\$263,584	\$215,386	\$178,213	\$140,982	\$120,556	\$112,667	\$106,163	\$100,369	\$93,897	\$298,047
(22) Actual RDM Recon Revenue	(\$57,282)	\$33,244	\$60,412	\$48,657	\$37,603	\$37,592	\$20,731	\$8,164	\$6,782	\$6,057	\$6,711	\$8,561	\$217,232
(23) Ending RDM Recon Balance Under/(Over) Recovery	\$355,329	\$322,689	\$262,961	\$214,927	\$177,783	\$140,621	\$120,251	\$112,392	\$105,885	\$100,106	\$93,658	\$85,336	\$80,815
(24) Average Monthly Balance Under/(Over) Recovery	\$326,688	\$339,311	\$293,167	\$239,255	\$196,584	\$159,417	\$130,616	\$116,474	\$109,276	\$103,135	\$97,014	\$89,617	
(25) Bk America Rate less 200 Basis Points	2.25%	2.38%	2.50%	2.58%	2.50%	2.75%	2.75%	2.75%	2.88%	3.00%	3.00%	3.00%	
(26) Interest Applied	\$604	\$684	\$622	\$459	\$431	\$360	\$305	\$275	\$278	\$263	\$239	\$228	\$4,750
(27) RDM Recon Adjustment End Balance Under/(Over) Recovery	\$355,933	\$323,373	\$263,584	\$215,386	\$178,213	\$140,982	\$120,556	\$112,667	\$106,163	\$100,369	\$93,897	<u>\$85,565</u>	
(28) RDM Recon and Recon Adj. End Balance Under/(Over) Recovery													<u>\$107,619</u>

(6) Sum Lines (2) through (5).
 (7) (a) Beginning balance, Docket 4708, Schedule AFL-1S, Line (13) + monthly interest calculated from April - October at Bk America rate less 200 basis points.
 (19) Sum Lines (14) through (18).
 (21) (a) Beginning balance, Docket 4708, AFL-1S, Line (14).
 (28) Line (13) + Line (27).

National Grid - RI Gas

ISR Reconciliation for FY 17

	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Total
	30	31	31	28	31	30	31	30	31	31	30	31	
	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Forecast	Forecast	Forecast	(l)
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	
ISR Recon Rates \$/decatherm													
(1) Res-NH	\$0.5452	\$0.4645	\$0.4651	\$0.4652	\$0.4648	\$0.4730	\$0.4655	\$0.4675	\$0.4650	\$0.4650	\$0.4650	\$0.4650	
(2) Res-H	\$0.2018	\$0.2020	\$0.2021	\$0.2021	\$0.2019	\$0.2029	\$0.2022	\$0.2031	\$0.2020	\$0.2020	\$0.2020	\$0.2020	
(3) Small	\$0.3513	\$0.2987	\$0.2990	\$0.2991	\$0.2989	\$0.3042	\$0.2993	\$0.3006	\$0.2990	\$0.2990	\$0.2990	\$0.2990	
(4) Medium	\$0.1948	\$0.1950	\$0.1951	\$0.1951	\$0.1949	\$0.1984	\$0.1952	\$0.1961	\$0.1950	\$0.1950	\$0.1950	\$0.1950	
(5) Large LL	\$0.1608	\$0.1610	\$0.1611	\$0.1611	\$0.1609	\$0.1638	\$0.1612	\$0.1619	\$0.1610	\$0.1610	\$0.1610	\$0.1610	
(6) Large HL	\$0.1199	\$0.1200	\$0.1200	\$0.1201	\$0.1200	\$0.1221	\$0.1201	\$0.1207	\$0.1200	\$0.1200	\$0.1200	\$0.1200	
(7) XL-LL	\$0.0227	\$0.0210	\$0.0210	\$0.0210	\$0.0210	\$0.0214	\$0.0210	\$0.0210	\$0.0210	\$0.0210	\$0.0210	\$0.0210	
(8) XL-HL	\$0.0104	\$0.0060	\$0.0060	\$0.0060	\$0.0060	\$0.0061	\$0.0060	\$0.0060	\$0.0060	\$0.0060	\$0.0060	\$0.0060	
Actual Firm Throughput - decatherms													
(9) Res-NH	26,304	37,283	56,362	50,780	43,949	42,785	31,770	21,426	17,726	14,197	15,072	17,788	375,441
(10) Res-H	1,134,674	2,297,654	4,213,704	3,393,779	2,629,662	2,640,658	1,423,779	552,038	439,244	378,733	549,175	20,092,398	
(11) Small	118,001	292,995	617,299	466,424	354,014	338,241	164,875	55,343	45,400	44,711	51,076	64,219	2,612,175
(12) Medium	350,067	699,916	1,152,957	953,335	730,938	738,673	417,514	186,669	172,119	168,314	165,735	224,869	5,961,305
(13) Large LL	146,658	406,104	642,702	538,291	354,564	430,928	220,237	7,632	44,319	39,409	55,337	96,300	2,982,480
(14) Large HL	115,934	216,094	157,787	149,112	103,393	132,531	94,591	76,764	67,686	74,186	86,545	122,620	1,294,223
(15) XL-LL	73,947	216,094	275,621	233,422	107,203	203,878	89,426	32,388	48,777	18,769	25,559	78,316	6,650,840
(16) XL-HL	535,335	627,278	681,442	451,237	468,733	489,666	422,105	453,956	543,710	521,696	548,179	1,665,391	
(17) Total	sum(8:[1:15])	2,474,426	4,693,257	7,844,235	6,466,403	4,774,959	5,176,426	2,931,856	1,289,087	1,245,327	1,281,789	1,351,911	41,195,066
(18) ISR Res-NH Acct Beg. Balance Under/(Over-Recovery)													
(19) FY 2016 Recon	\$10,188	\$171,446	\$154,455	\$128,543	\$105,148	\$84,910	\$65,191	\$50,297	\$40,430	\$32,235	\$25,707	\$18,754	
(20) Actual Res-NH Revenue	\$14,341	\$17,319	\$26,212	\$23,619	\$20,445	\$19,889	\$15,028	\$9,974	\$8,287	\$6,602	\$7,009	\$8,271	
(21) Ending Res-NH Balance Under/(Over) Recovery	\$171,125	\$154,126	\$128,243	\$104,224	\$84,702	\$65,022	\$50,163	\$40,223	\$32,143	\$25,634	\$18,699	\$10,482	
(22) Average Monthly Balance Under/(Over) Recovery	\$173,202	\$162,786	\$141,349	\$116,733	\$94,925	\$74,966	\$57,677	\$45,310	\$36,287	\$28,935	\$22,203	\$14,618	
(23) Bk America Rate less 200 Basis Points	2.25%	2.38%	2.50%	2.50%	2.58%	2.75%	2.75%	2.75%	2.88%	3.00%	3.00%	3.00%	
(24) Interest Applied	\$320	\$328	\$300	\$224	\$208	\$169	\$135	\$107	\$92	\$74	\$55	\$37	
(25) ISR Res-NH Recon End Balance Under/(Over) Recovery	\$171,446	\$154,455	\$128,543	\$105,148	\$84,910	\$65,191	\$50,297	\$40,430	\$32,235	\$25,707	\$18,754	\$10,520	
(26) ISR Res-H Acct Beg. Balance Under/(Over) Recovery													
(27) FY 2016 Recon	\$3,505,943	\$3,598,422	\$3,141,560	\$2,296,033	\$1,614,038	\$1,085,555	\$554,163	\$262,541	\$151,391	\$62,449	\$13,993	\$102,855	
(28) Actual Res-H Revenue	\$389,931	\$304,015	\$463,654	\$851,293	\$685,741	\$531,438	\$533,242	\$292,575	\$111,639	\$89,214	\$76,504	\$88,718	\$110,933
(29) Ending Res-H Balance Under/(Over) Recovery	\$3,591,859	\$3,134,769	\$2,290,266	\$1,610,292	\$1,082,599	\$552,312	\$261,589	\$150,902	\$62,177	\$40,055	\$14,055	\$102,712	\$213,789
(30) Average Monthly Balance Under/(Over) Recovery	\$3,548,901	\$3,366,596	\$2,151,913	\$1,535,162	\$1,348,319	\$818,934	\$407,876	\$206,722	\$106,784	\$24,197	\$38,352	\$158,322	
(31) Bk America Rate less 200 Basis Points	2.25%	2.38%	2.50%	2.50%	2.58%	2.75%	2.75%	2.75%	2.88%	3.00%	3.00%	3.00%	
(32) Interest Applied	\$6,563	\$6,791	\$5,767	\$3,746	\$2,955	\$1,851	\$953	\$62,541	\$151,391	\$62,449	\$13,993	\$144	
(33) ISR Res-H Recon End Balance Under/(Over) Recovery	\$3,598,422	\$3,141,560	\$2,296,033	\$1,614,038	\$1,085,555	\$554,163	\$262,541	\$151,391	\$62,449	\$13,993	\$102,855	\$214,192	
(34) ISR Res-H Acct Beg. Balance Under/(Over) Recovery													
(35) FY 2016 Recon	\$699,257	\$709,216	\$623,042	\$439,570	\$300,837	\$195,481	\$94,707	\$44,720	\$28,239	\$14,644	\$1,367	\$13,920	
(36) Actual Small C&I Revenue	\$50,116	\$41,458	\$87,517	\$184,599	\$139,442	\$105,899	\$101,102	\$50,150	\$16,567	\$13,649	\$13,297	\$15,272	
(37) Ending Small C&I Balance Under/(Over) Recovery	\$707,915	\$621,700	\$438,443	\$300,128	\$194,938	\$94,380	\$44,557	\$28,153	\$14,589	\$11,347	\$13,904	\$13,121	
(38) Average Monthly Balance Under/(Over) Recovery	\$703,586	\$665,458	\$530,742	\$369,849	\$247,887	\$144,930	\$69,632	\$36,436	\$21,414	\$7,995	\$6,268	\$23,521	
(39) Bk America Rate less 200 Basis Points	\$1,301	\$1,342	\$1,127	\$709	\$543	\$328	\$163	\$86	\$55	\$20	\$15	\$60	
(40) Interest Applied	\$439,570	\$623,042	\$439,570	\$300,837	\$195,481	\$94,707	\$44,720	\$28,239	\$14,644	\$1,367	\$13,920	\$33,181	
(41) ISR Small C&I Recon End Balance Under/(Over) Recovery	\$709,216	\$623,042	\$439,570	\$300,837	\$195,481	\$94,707	\$44,720	\$28,239	\$14,644	\$1,367	\$13,920	\$33,181	
(42) ISR Medium Acct Beg. Balance Under/(Over) Recovery													
(43) FY 2016 Recon	\$73,524	\$70,508	\$87,345	\$224,860	\$185,987	\$142,599	\$143,995	\$82,822	\$36,442	\$33,747	\$32,821	\$32,318	\$43,849
(44) Actual Medium Revenue	\$1,010,035	\$1,008,527	\$87,345	\$652,599	\$408,236	\$326,713	\$183,591	\$101,346	\$51,009	\$53,288	\$51,688	\$53,288	\$77,180
(45) Ending Medium Balance Under/(Over) Recovery	\$1,010,035	\$894,328	\$767,027	\$561,229	\$398,013	\$255,588	\$142,757	\$83,459	\$48,562	\$15,401	\$17,129	\$55,225	
(46) Average Monthly Balance Under/(Over) Recovery	2.25%	2.38%	2.50%	2.50%	2.58%	2.75%	2.75%	2.75%	2.88%	3.00%	3.00%	3.00%	
(47) Bk America Rate less 200 Basis Points	\$1,865	\$1,904	\$1,624	\$1,076	\$872	\$578	\$333	\$197	\$124	\$39	\$970	\$970	
(48) Interest Applied	\$877,459	\$654,223	\$469,312	\$327,586	\$184,168	\$101,679	\$65,435	\$31,812	\$1,367	\$13,920	\$33,331	\$33,331	
(49) ISR Medium Recon End Balance Under/(Over) Recovery	\$1,011,900	\$877,459	\$654,223	\$469,312	\$327,586	\$184,168	\$101,679	\$65,435	\$31,812	\$1,367	\$13,920	\$33,331	\$77,321

National Grid - RI Gas

ISR Reconciliation for FY 17

	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Total	
	30	31	31	28	31	30	31	30	31	31	30	31		
	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Forecast	Forecast	Forecast	(l)	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)		
(50) ISR Large LL Acct Beg. Balance Under/(Over) Recovery	\$427,497	\$407,266	\$342,705	\$239,833	\$153,522	\$96,684	\$27,468	-\$8,581	-\$9,833	-\$17,042	-\$23,438	-\$32,416		
(51) FY 2016 Recon	\$29,712	\$29,714	\$103,490	\$86,687	\$57,111	\$69,357	\$36,071	\$1,230	\$7,174	\$6,345	\$8,909	\$15,504		
(52) Actual Large LL Revenue	\$406,495	\$341,949	\$239,215	\$153,145	\$96,411	\$27,328	-\$8,603	-\$9,812	-\$17,007	-\$23,386	-\$32,447	-\$47,920		
(53) Ending Large LL Balance Under/(Over) Recovery	\$416,996	\$374,608	\$290,960	\$196,489	\$124,966	\$62,006	\$9,432	2,75%	2,75%	2,75%	2,88%	-\$13,420	-\$27,893	-\$40,168
(54) Average Monthly Balance Under/(Over) Recovery	2,25%	2,38%	2,50%	2,50%	2,58%	2,58%	2,58%	2,58%	2,58%	2,58%	2,58%	3,00%	3,00%	3,00%
(55) Bk America Rate less 200 Basis Points	\$771	\$756	\$618	\$377	\$274	\$140	\$22	\$22	\$22	\$22	\$34	-\$52	-\$69	-\$102
(56) Interest Applied														
(57) ISR Large LL Recon End Balance Under/(Over) Recovery	\$407,266	\$342,705	\$239,833	\$153,522	\$96,684	\$27,468	-\$8,581	-\$9,833	-\$17,042	-\$23,438	-\$32,416	-\$48,023		
(58) ISR Large HL Acct Beg. Balance Under/(Over) Recovery	\$147,892	\$135,751	\$122,112	\$103,415	\$85,698	\$73,460	\$57,709	\$46,283	\$37,159	\$29,077	\$20,237	\$10,887		
(59) FY 2016 Recon	\$1,946	\$14,350	\$13,898	\$18,937	\$17,898	\$12,413	\$15,899	\$11,347	\$9,223	\$8,167	\$8,902	\$9,388	\$10,385	
(60) Actual Large HL Revenue	\$121,853	\$121,853	\$103,176	\$85,517	\$73,286	\$57,361	\$46,162	\$37,061	\$28,993	\$20,175	\$10,849	\$10,849	\$10,849	
(61) Ending Large HL Balance Under/(Over) Recovery	\$141,690	\$128,802	\$112,644	\$94,466	\$79,492	\$65,510	\$51,935	\$41,672	\$33,076	\$24,626	\$15,543	\$15,543	\$15,543	
(62) Average Monthly Balance Under/(Over) Recovery	2,25%	2,38%	2,50%	2,50%	2,58%	2,58%	2,58%	2,58%	2,58%	2,58%	2,58%	3,00%	3,00%	3,00%
(63) Bk America Rate less 200 Basis Points	\$262	\$260	\$239	\$181	\$174	\$148	\$121	\$98	\$84	\$63	\$38	\$15	\$15	
(64) Interest Applied														
(65) ISR Large HL Recon End Balance Under/(Over) Recovery	\$135,751	\$122,112	\$103,415	\$85,698	\$73,460	\$57,709	\$46,283	\$37,159	\$29,077	\$20,237	\$10,887	\$516		
(66) ISR XL LL Acct Beg. Balance Under/(Over) Recovery	\$28,489	\$26,036	\$21,551	\$15,802	\$10,924	\$8,694	\$4,429	\$2,526	\$3,225	\$3,131	\$2,744	\$2,213		
(67) FY 2016 Recon	(\$825)	\$1,678	\$4,533	\$5,789	\$4,903	\$2,252	\$4,280	\$1,910	(\$692)	\$103	\$394	\$537	\$1,645	
(68) Actual XL LL Revenue	\$21,503	\$15,762	\$10,899	\$8,672	\$4,414	\$2,518	\$4,414	\$3,218	\$3,122	\$2,736	\$2,207	\$2,207	\$2,207	
(69) Ending XL LL Balance Under/(Over) Recovery	\$27,238	\$18,657	\$13,350	\$9,798	\$6,554	\$3,474	\$2,872	\$1,74	\$1,74	\$2,933	\$2,475	\$1,391		
(70) Average Monthly Balance Under/(Over) Recovery	2,25%	2,38%	2,50%	2,50%	2,58%	2,58%	2,58%	2,58%	2,58%	2,58%	2,58%	3,00%	3,00%	3,00%
(71) Bk America Rate less 200 Basis Points	\$50	\$48	\$40	\$26	\$21	\$15	\$8	\$7	\$8	\$7	\$6	\$4	\$4	
(72) Interest Applied														
(73) ISR XL LL Recon End Balance Under/(Over) Recovery	\$26,036	\$21,551	\$15,802	\$10,924	\$8,694	\$4,429	\$2,526	\$3,225	\$3,131	\$2,744	\$2,213	\$72		
(74) ISR XL HI Acct Beg. Balance Under/(Over) Recovery	\$41,225	\$41,002	\$37,321	\$33,028	\$28,999	\$26,351	\$22,516	\$19,576	\$17,083	\$14,384	\$11,155	\$8,048		
(75) FY 2016 Recon	\$5,278	\$5,577	\$3,760	\$4,368	\$4,088	\$2,708	\$3,891	\$2,989	\$2,536	\$2,739	\$3,262	\$3,130	\$3,289	
(76) Actual XL HI Revenue	\$40,926	\$37,242	\$32,953	\$28,939	\$26,291	\$22,460	\$19,527	\$17,040	\$14,344	\$11,122	\$8,024	\$4,759		
(77) Ending XL HI Balance Under/(Over) Recovery	\$41,075	\$39,122	\$35,137	\$30,984	\$27,645	\$24,406	\$21,021	\$18,308	\$15,714	\$12,753	\$9,590	\$6,404		
(78) Average Monthly Balance Under/(Over) Recovery	2,25%	2,38%	2,50%	2,50%	2,58%	2,58%	2,58%	2,58%	2,58%	2,58%	2,58%	3,00%	3,00%	3,00%
(79) Bk America Rate less 200 Basis Points	\$76	\$79	\$59	\$59	\$61	\$55	\$49	\$49	\$43	\$32	\$24	\$16		
(80) Interest Applied														
(81) ISR XL HI Recon End Balance Under/(Over) Recovery	\$41,002	\$37,321	\$33,028	\$28,999	\$26,351	\$22,516	\$19,576	\$17,083	\$14,384	\$11,155	\$8,048	\$4,775		

Approved Amount to be Recovered¹
 Under/(Over) Recovery

\$5,956,711
 (\$556,334)

¹Docket 4708, AEL-SS, Page 1 of 2

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

October 31, 2017 Ending Deferred Balances

	Description	Forecast ¹ (a)	Actual (b)	Variance (c) = (b) - (a)
(1)	System Pressure	\$475,081	\$486,853	\$11,772
(2)	Advanced Gas Technology	\$0	\$0	\$0
(3)	Environmental - DAC	\$53,584	\$58,038	\$4,454
(4)	Previous Reconciliation Factor - Applicable to All	(\$47,396)	(\$49,624)	(\$2,228)
(5)	Previous Reconciliation Factor - Large & Extra Large	(\$3,721)	(\$6,890)	(\$3,169)
(6)	On-System Margin Credits	(\$31,823)	(\$32,141)	(\$319)
(7)	Pension	\$11,892	\$9,664	(\$2,228)
(8)	PBOP	(\$36,103)	(\$51,057)	(\$14,954)
(9)	Earnings Sharing Mechanism	\$12,001	\$12,001	\$0
(10)	RDM			
(11)	RDA Reconciliation	\$460,167	\$459,611	(\$555)
(12)	RDM Recon Reconciliation	<u>(\$162,120)</u>	<u>(\$166,010)</u>	<u>(\$3,889)</u>
(13)	Sub-Total RDM	\$298,047	\$293,602	(\$4,445)
(14)	ISR Recon			
(15)	Residential Non-Heating	\$10,188	\$10,099	(\$89)
(16)	Residential Heating	\$389,931	\$428,124	\$38,194
(17)	Small C&I	\$50,116	\$20,752	(\$29,365)
(18)	Medium C&I	\$73,524	\$81,423	\$7,899
(19)	Large Low Load C&I	\$8,712	\$12,239	\$3,527
(20)	Large High Load C&I	\$1,946	\$2,072	\$125
(21)	Extra Large Low Load C&I	(\$825)	\$28	\$853
(22)	Extra Large High Load C&I	<u>\$5,278</u>	<u>\$8,260</u>	<u>\$2,982</u>
(23)	Sub-Total ISR	\$538,871	\$562,996	\$24,126
(24)	Total	\$1,270,432	\$1,283,442	\$13,009

¹Docket 4708, AEL-10S, Pages 2-3, 5-7 filed on September 1, 2017.

- (1) See AEL-11, Page 1, Line (9)
- (2) See AEL-11, Page 1, Line (20)
- (3) See AEL-11, Page 1, Line (32)
- (4) See AEL-11, Page 2, Line (44)
- (5) See AEL-11, Page 2, Line (56)
- (6) See AEL-11, Page 2, Line (68)
- (7) See AEL-11, Page 3, Line (80)
- (8) See AEL-11, Page 3, Line (92)
- (9) See AEL-11, Page 3, Lines (104)
- (10) See AEL-11, Page 4, Lines (18) and (36)
- (14) See AEL-11, Pages 5-8, Lines (12), (24), (36), (48), (60), (72), (84), (96)
- (24) Net owed to Company, sum[Lines[(1):(9)] + Line (13) + Line (23)]

**Schedule
AEL-11**

**THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC DOCKET NO. 4846
SUPPLEMENTAL DISTRIBUTION ADJUSTMENT CHARGE FILING
WITNESS: ANN E. LEARY**

Schedule AEL-11
Reconciliations for FY 18

Non-Base Rate / Gas Year Reconciling Components (April 2016 - March 2017)

	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18
(a)	30	31	30	31	31	30	31	30	31	31	28	31
(b)	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual
33) Reconciliation Factor (Applicable to all) - DAC												
34) Recon Factor Acc Beg. Balance Under/(Over) Recovery	(\$146,563)	(\$111,470)	(\$96,158)	(\$84,414)	(\$75,579)	(\$67,009)	(\$57,926)	(\$44,293)	(\$44,387)	\$44,472		
35) Transfer to 2017-2018 Recon Factor	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
36) Reconciliation (All) DAC True-up	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
37) Reconciliation (All) Factor Balance Under/(Over) Recovery	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
38) Subtotal												
39) Actual Recon Revenue	(\$35,305)	(\$15,488)	(\$11,902)	(\$8,988)	(\$8,706)	(\$9,198)	(\$8,405)	(\$34,587)	(\$34,587)	\$0	\$0	
40) Ending Recon Balance Under/(Over) Recovery	(\$11,258)	(\$9,982)	(\$8,256)	(\$75,426)	(\$66,873)	(\$57,811)	(\$49,521)	(\$44,131)	(\$44,293)	\$44,387	\$44,472	
41) Average Monthly Balance Under/(Over) Recovery	(\$18,911)	(\$103,726)	(\$90,207)	(\$79,920)	(\$71,226)	(\$62,410)	(\$53,724)	(\$39,359)	(\$44,204)	\$44,387	\$44,472	
42) Bk America Rate less 200 Basis Points	2.00%	2.13%	2.25%	2.25%	2.25%	2.25%	2.25%	2.25%	2.25%	2.50%	2.50%	
43) Interest Applied	(\$212)	(\$176)	(\$158)	(\$153)	(\$136)	(\$103)	(\$103)	(\$73)	(\$89)	\$85	\$97	
44) Reconciliation End Balance Under/(Over) Recovery	(\$111,470)	(\$96,158)	(\$84,414)	(\$75,579)	(\$67,009)	(\$57,926)	(\$49,624)	(\$44,293)	(\$44,387)	\$44,472	\$44,570	
15) Reconciliation Factor (L & XL)-DAC												
16) Recon Factor Acc Beg. Balance Under/(Over) Recovery	(\$67,833)	(\$50,357)	(\$35,657)	(\$28,552)	(\$21,257)	(\$13,347)	(\$6,890)	(\$126,037)	(\$111,272)	(\$91,642)	(\$74,174)	
17) Transfer to 2017-2018 Recon Factor	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
18) Reconciliation (L & XL) DAC True-up	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
19) Reconciliation (L & XL) Factor Balance Under/(Over) Recov	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
20) Subtotal												
21) Actual Recon Revenue (L & XL)	(\$17,593)	(\$7,209)	(\$7,639)	(\$7,166)	(\$7,942)	(\$6,476)	(\$9,782)	(\$15,004)	(\$19,846)	(\$17,627)	(\$11,185)	
22) Ending Recon Balance Under/(Over) Recovery	(\$50,260)	(\$43,148)	(\$35,588)	(\$28,491)	(\$21,209)	(\$13,315)	(\$6,871)	(\$12,796)	(\$11,033)	(\$91,426)	(\$74,015)	(\$62,989)
23) Average Monthly Balance Under/(Over) Recovery	(\$59,065)	(\$46,752)	(\$39,408)	(\$32,074)	(\$24,881)	(\$17,286)	(\$10,109)	(\$10,687)	(\$11,853)	(\$82,828)	(\$68,581)	
24) Bk America Rate less 200 Basis Points	2.00%	2.00%	2.13%	2.25%	2.25%	2.25%	2.25%	2.25%	2.25%	2.50%	2.50%	
25) Interest Applied	(\$97)	(\$79)	(\$69)	(\$61)	(\$47)	(\$32)	(\$19)	(\$242)	(\$239)	(\$215)	(\$150)	
26) Reconciliation End Balance Under/(Over) Recovery	(\$50,357)	(\$43,227)	(\$35,657)	(\$28,552)	(\$21,257)	(\$13,347)	(\$6,890)	(\$126,037)	(\$111,272)	(\$91,642)	(\$74,174)	
37) On-system Credits Recon. Adjust. - DAC												
38) On-system Credit Acc Beg. Balance Under/(Over) Recovery	(\$45,674)	(\$40,701)	(\$38,556)	(\$36,922)	(\$35,707)	(\$34,530)	(\$33,279)	(\$32,141)	(\$31,364)	\$1,370	\$1,373	
39) Transfer to 2017-2018 Recon Factor	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
40) On-system DAC True-up	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
41) On-system Credit Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
42) Subtotal												
43) Actual On-system Revenue	(\$5,044)	(\$2,212)	(\$1,700)	(\$1,284)	(\$1,244)	(\$1,314)	(\$1,200)	(\$1,363)	(\$1,364)	\$1,364	\$1,370	
44) Ending On-system Balance Under/(Over) Recovery	(\$40,530)	(\$38,489)	(\$36,856)	(\$35,638)	(\$34,463)	(\$33,216)	(\$32,079)	(\$33,216)	(\$32,679)	(\$682	\$1,364	
45) Average Monthly Balance Under/(Over) Recovery	(\$43,152)	(\$39,595)	(\$37,706)	(\$36,280)	(\$35,085)	(\$33,873)	(\$33,873)	(\$33,873)	(\$32,679)	(\$2,25%	(\$2,25%)	
46) Bk America Rate less 200 Basis Points	2.00%	2.00%	2.13%	2.25%	2.25%	2.25%	2.25%	2.25%	2.25%	2.50%	2.50%	
47) Interest Applied	(\$57)	(\$67)	(\$69)	(\$66)	(\$67)	(\$66)	(\$66)	(\$66)	(\$66)	\$1	\$3	
48) On-system Credit End Balance Under/(Over) Recovery	(\$40,701)	(\$38,556)	(\$36,922)	(\$35,707)	(\$34,530)	(\$33,279)	(\$32,141)	(\$31,364)	(\$31,364)	\$1,364	\$1,370	

(35) Docket 4708, AEL-10S, Page 1, Ln (7)
 (36) AEL-10S, Page 8, Ln (4)

(37) Col (h) per Docket 4708, AEL-10S, Pg 1, Ln (12)

(38) Col(h): sum Likes[(34);(37)]

(48) AFI-10S Dacca 8 I^o (5)

(49) Col (b) per Docket 4708 AEI-10S Pg 1 In (26)

(50) Col (h): Sun Lines [(46):(49)]

(59) Docket 4708, AEL-10S, Page 1, Ln (4)

(60) AEL-10S, Page 8, Ln (6)

(61) Col(h) per Docket 4708, AEL-1S, Pg 1, Ln (6)

National Grid - RI Gas
Non-Base Rate / Gas Year Reconciling Components (April 2016 - March 2017)

	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18
	30	31	30	31	31	30	31	30	31	31	28	31
	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(l)
(69) Pension Adjustment												
(70) Pen Acct Beg. Balance Under/(Over) Recovery	(\$88,021)	(\$22,832)	(\$37,421)	(\$25,573)	(\$16,626)	(\$7,943)	\$1,249	\$9,664	(\$2,043,433)	(\$1,798,815)	(\$1,386,388)	(\$1,045,910)
(71) Transfer to 2017-2018 Recon Factor	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$11,892)	\$0	\$0	\$0	\$0
(72) Pension DAC True-up	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,228	\$0	\$0	\$0	\$0
(73) Pension Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$2,108,263)	\$0	\$0	\$0	\$0
(74) Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$2,108,263)	\$0	\$0	\$0	\$0
(75) Actual Pension Revenue	(\$35,305)	(\$15,488)	(\$11,902)	(\$8,988)	(\$8,706)	(\$9,198)	(\$8,405)	(\$68,666)	(\$248,490)	(\$843,805)	(\$342,808)	(\$253,190)
(76) Ending Pension Balance Under/(Over) Recovery	(\$52,716)	(\$37,344)	(\$25,519)	(\$16,585)	(\$7,920)	\$1,255	\$9,654	(\$2,039,598)	(\$1,794,943)	(\$1,383,010)	(\$1,043,580)	(\$792,720)
(77) Average Monthly Balance Under/(Over) Recovery	(\$70,369)	(\$45,088)	(\$31,470)	(\$21,079)	(\$12,273)	(\$3,344)	\$5,451	(\$2,073,330)	(\$1,919,188)	(\$1,590,912)	(\$1,214,984)	(\$919,315)
(78) Bk America Rate less 200 Basis Points	2.00%		2.13%		2.25%		2.25%		2.25%		2.50%	2.58%
(79) Interest Applied	<u>(\$116)</u>	<u>(\$77)</u>	<u>(\$55)</u>	<u>(\$40)</u>	<u>(\$23)</u>	<u>\$6</u>	<u>\$10</u>	<u>(\$3,335)</u>	<u>(\$3,871)</u>	<u>(\$53,378)</u>	<u>(\$2,330)</u>	<u>(\$2015)</u>
(80) Pension Adjustment End Balance Under/(Over) Recovery	(\$52,832)	(\$37,421)	(\$25,573)	(\$16,626)	(\$7,943)	\$1,249	\$9,664	(\$2,043,433)	(\$1,798,815)	(\$1,386,388)	(\$1,045,910)	(\$794,735)
(81) PBOP Adjustment												
(82) PBOP Acct Beg. Balance Under/(Over) Recovery	(\$705,494)	(\$469,406)	(\$366,123)	(\$286,778)	(\$226,922)	(\$168,842)	(\$107,339)	(\$51,057)	(\$2,439,754)	(\$2,139,616)	(\$1,633,667)	(\$1,215,972)
(83) Transfer to 2017-2018 Recon Factor	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$36,103	\$0	\$0	\$0	\$0
(84) PBOP DAC True-up	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,954	\$0	\$0	\$0	\$0
(85) PBOP Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$2,571,711)	\$0	\$0	\$0	\$0
(86) Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$2,571,711)	\$0	\$0	\$0	\$0
(87) Actual PBOP Revenue	(\$237,053)	(\$103,992)	(\$79,915)	(\$60,346)	(\$58,488)	(\$61,758)	(\$56,433)	(\$136,387)	(\$304,752)	(\$509,950)	(\$420,425)	(\$310,516)
(88) Ending PBOP Balance Under/(Over) Recovery	(\$468,441)	(\$365,414)	(\$286,208)	(\$226,432)	(\$168,464)	(\$107,084)	(\$50,906)	(\$243,5124)	(\$213,242)	(\$169,666)	(\$129,242)	(\$905,456)
(89) Average Monthly Balance Under/(Over) Recovery	(\$586,968)	(\$417,410)	(\$326,166)	(\$226,605)	(\$197,693)	(\$137,963)	(\$79,123)	(\$2,503,418)	(\$2,287,378)	(\$1,884,641)	(\$1,423,455)	(\$1,060,714)
(90) Bk America Rate less 200 Basis Points	2.00%		2.13%		2.25%		2.25%		2.25%		2.50%	2.58%
(91) Interest Applied	<u>(\$965)</u>	<u>(\$709)</u>	<u>(\$570)</u>	<u>(\$490)</u>	<u>(\$378)</u>	<u>(\$168,842)</u>	<u>(\$107,339)</u>	<u>(\$51,057)</u>	<u>(\$2,439,754)</u>	<u>(\$2,139,616)</u>	<u>(\$1,633,667)</u>	<u>(\$2,750)</u>
(92) PBOP Adjustment End Balance Under/(Over) Recovery	(\$469,406)	(\$366,123)	(\$286,778)	(\$226,922)	(\$168,842)	(\$107,339)	(\$51,057)	(\$2,439,754)	(\$2,139,616)	(\$1,633,667)	(\$215,972)	(\$907,781)
(93) Earnings Sharing Mechanism												
(94) ESM Acct Beg. Balance Under/(Over) Recovery	\$11,850	\$11,869	\$11,889	\$11,910	\$11,933	\$11,956	\$11,978	\$12,001	\$0	\$0	\$0	\$0
(95) Transfer to 2017-2018 Recon Factor	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$12,001)	\$0	\$0	\$0	\$0
(96) ESM DAC True-up	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(97) ESM Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(98) Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(99) Actual ESM Revenue	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(100) Ending ESM Balance Under/(Over) Recovery	\$11,850	\$11,869	\$11,889	\$11,910	\$11,933	\$11,956	\$11,978	\$0	\$0	\$0	\$0	\$0
(101) Average Monthly Balance Under/(Over) Recovery	\$11,850	\$11,869	\$11,889	\$11,910	\$11,933	\$11,956	\$11,978	\$0	\$0	\$0	\$0	\$0
(102) Bk America Rate less 200 Basis Points	2.00%		2.13%		2.25%		2.25%		2.25%		2.50%	2.58%
(103) Interest Applied	<u>\$19</u>	<u>\$20</u>	<u>\$21</u>	<u>\$22</u>	<u>\$23</u>	<u>\$24</u>	<u>\$25</u>	<u>\$26</u>	<u>\$27</u>	<u>\$28</u>	<u>\$29</u>	<u>\$235</u>
(104) ESM Adjustment End Balance Under/(Over) Recovery	\$11,869	\$11,889	\$11,900	\$11,933	\$11,956	\$11,978	\$12,001	\$0	\$0	\$0	\$0	\$0

(71) Docket 4708, AEL-10S, Page 1, Ln (5)

(72) AEL-10S, Page 8, Ln (7)

(73) Col (b) per Docket 4708, AEL-5S, Pg 1, Ln (3)

(74) Col (b): Sum Lines [(70):(73)]

(75) Docket 4708, AEL-10S, Page 1, Ln (6)

(76) Col (b) per Docket 4708, AEL-5S, Pg 1, Ln (8)

(77) Col (b): Sum Lines [(82):(85)]

(78) Col (b) per Docket 4708, AEL-10S, Pg 1, Ln (8)

(79) Col (b): Sum Lines [(82):(85)]

(80) Col (b) per Docket 4708, AEL-10S, Pg 1, Ln (8)

National Grid - RI Gas
 RDA Reconciliation (April 2016 - March 2017)

	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Total
	30	31	30	31	31	30	31	30	31	31	28	31	(m)
	Actual	Actual	Actual	Actual	(n)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	
Actual Firm Throughput - dekatherms													
(1) Res-NH	45,685	30,341	24,941	19,686	18,136	20,093	15,846	26,304	37,283	56,362	50,780	43,949	389,404
(2) Res-H	2,470,609	1,086,418	723,631	458,490	407,982	416,197	422,553	1,134,674	2,297,654	4,213,704	3,393,879	2,629,662	19,655,450
(3) Small	329,980	110,717	71,536	45,841	39,544	41,501	41,570	118,001	222,995	617,299	466,242	354,014	2,529,239
(4) Medium	731,416	309,696	241,595	162,734	165,089	172,352	180,271	350,067	699,916	1,152,957	953,535	730,938	5,850,566
(5) Total	3,577,689	1,537,171	1,061,702	686,750	630,751	650,144	660,240	1,629,045	3,327,848	6,040,321	4,864,436	3,758,562	28,424,660
(6) RDM Reconciliation													
(7) RDM Acct Beg. Balance Under/(Over) Recovery	\$362,957	\$400,318	\$417,561	\$429,222	\$437,101	\$444,430	\$451,954	\$459,611	\$185,007	\$165,413	\$129,479	\$100,505	
(8) Transfer to 2017-2018 Recon Factor	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$460,167)	\$0	\$0	\$0	\$0
(9) RDM DAC True-up	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$555	\$0	\$0	\$0	\$0
(10) RDM Balance November 2017	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$177,598	\$0	\$0	\$0	\$0
(11) Interest on RDM Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,263	\$0	\$0	\$0	\$0
(12) Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$179,860	\$0	\$0	\$0	\$0
(13) Actual RDM Revenue	(\$36,733)	(\$16,549)	(\$10,922)	(\$7,052)	(\$6,487)	(\$6,696)	(\$6,487)	(\$54,810)	\$19,947	\$36,247	\$29,195	\$22,561	
(14) Ending RDM Balance Under/(Over) Recovery	\$399,691	\$416,867	\$428,483	\$436,274	\$443,588	\$451,126	\$458,741	\$184,070	\$165,060	\$129,166	\$100,284	\$77,943	
(15) Average Monthly Balance Under/(Over) Recovery	\$381,324	\$408,592	\$423,022	\$432,748	\$440,345	\$447,778	\$455,348	\$182,265	\$175,034	\$147,290	\$114,881	\$89,224	
(16) Bk America Rate less 200 Basis Points	2.00%	2.00%	2.13%	2.25%	2.25%	2.25%	2.25%	2.25%	2.25%	2.38%	2.50%	2.50%	2.58%
(17) Interest Applied	\$627	\$694	\$739	\$827	\$841	\$828	\$870	\$337	\$353	\$313	\$220	\$196	\$6,845
(18) RDM Recon End Balance Under/(Over) Recovery	\$400,318	\$417,561	\$429,222	\$437,101	\$444,430	\$451,954	\$459,611	\$185,007	\$165,413	\$129,479	\$100,505	\$78,139	
(19) RDM Revenue per rate class													
(20) Res-NH	(\$469)	(\$327)	(\$257)	(\$202)	(\$187)	(\$207)	(\$163)	(\$78)	\$223	\$338	\$305	\$264	
(21) Res-H	(\$25,367)	(\$11,697)	(\$7,444)	(\$4,708)	(\$4,196)	(\$4,287)	(\$3,344)	(\$3,350)	\$13,772	\$25,286	\$20,369	\$15,785	
(22) Small	(\$3,388)	(\$1,192)	(\$736)	(\$471)	(\$407)	(\$427)	(\$348)	(\$348)	\$1,756	\$3,704	\$2,798	\$2,125	
(23) Medium	(\$7,510)	(\$3,334)	(\$2,485)	(\$1,671)	(\$1,698)	(\$1,775)	(\$1,853)	(\$1,034)	\$4,195	\$6,919	\$5,723	\$4,388	
(24) Total	(\$36,733)	(\$16,549)	(\$10,922)	(\$7,052)	(\$6,487)	(\$6,696)	(\$6,787)	(\$4,810)	\$19,947	\$36,247	\$29,195	\$22,561	\$11,913
(25) RDM Recon Adjustment													
(26) RDM Recon Acct Beg. Balance Under/(Over) Recovery	(\$801,159)	(\$544,675)	(\$429,450)	(\$353,542)	(\$304,718)	(\$259,763)	(\$213,241)	(\$166,010)	\$355,933	\$323,373	\$263,584	\$215,386	
(27) Transfer to 2017-2018 Recon Factor	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$162,120	\$0	\$0	\$0	\$0
(28) RDM DAC True-up	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,889	\$0	\$0	\$0	\$0
(29) RDM Balance November 2017	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$298,047	\$0	\$0	\$0	\$0
(30) Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$298,047	\$0	\$0	\$0	\$0
(31) Actual RDM Recon Revenue	(\$257,590)	(\$116,051)	(\$76,591)	(\$49,453)	(\$45,494)	(\$46,958)	(\$47,594)	(\$57,282)	\$33,244	\$60,412	\$48,657	\$37,603	
(32) Ending RDM Recon Balance Under/(Over) Recovery	(\$543,569)	(\$428,624)	(\$352,859)	(\$304,089)	(\$259,224)	(\$212,805)	(\$165,647)	(\$165,647)	\$355,329	\$322,689	\$262,961	\$214,927	\$177,783
(33) Average Monthly Balance Under/(Over) Recovery	(\$672,364)	(\$486,649)	(\$391,155)	(\$328,816)	(\$281,971)	(\$236,284)	(\$189,444)	(\$189,444)	\$326,688	\$39,311	\$293,167	\$239,255	\$196,584
(34) Bk America Rate less 200 Basis Points	2.00%	2.00%	2.13%	2.25%	2.25%	2.25%	2.25%	2.25%	2.25%	2.38%	2.50%	2.50%	2.58%
(35) Interest Applied	(\$1,105)	(\$827)	(\$683)	(\$628)	(\$559)	(\$437)	(\$362)	(\$604)	\$684	\$622	\$459	\$431	
(36) RDM Recon Adjustment End Balance Under/(Over) Recovery	(\$544,675)	(\$429,450)	(\$353,542)	(\$304,718)	(\$259,763)	(\$213,241)	(\$166,010)	(\$355,933)	\$323,373	\$263,584	\$215,386	\$178,213	

- (8) Docket 4/08, AEL-10S, Page 1, Line 16
- (9) AEL-10S, Page 8, Line 11
- (10) Docket 4/08, AEL-1S, Page 1, Line 13
- (11) Beginning balance, Docket 4/08, Schedule AEL-1S, Line (13) + monthly interest calculated from April - October at Bk America rate less 200 basis points
- (12) Col (h): Sum Lines (7)-(11)
- (27) Docket 4/08, AEL-10S, Page 1, Line 17
- (28) AEL-10S, Page 8, Line 12
- (29) Docket 4/08, AEL-10S, Page 1, Line 18
- (30) Col (h): Sum Lines (26)-(29)

National Grid - RI Gas
ISR Reconciliation (April 2016 - March 2017)

	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18
(a)	30	31	30	31	31	30	31	30	31	31	28	31
(b)	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual
(1) ISR Res-NH Acct Beg. Balance Under/(Over) Recovery	\$332,900	\$305,603	\$286,732	\$272,001	\$260,518	\$249,941	\$238,117	\$228,901	\$171,445	\$154,454	\$128,543	\$0,147
(2) ISR Recon DAC True-up	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$89	\$0	\$0	\$0
(3) FY 2016 Recon	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,188	\$0	\$0	\$0
(4) FY 2017 Recon	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$173,073	\$0	\$0	\$0
(5) Interest Applied on FY17 balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$25,205	\$0	\$0	\$0
(6) Total FY 2017 Recon	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$175,278	\$0	\$0	\$0
(7) Actual Res-NH Revenue	\$27,822	\$19,374	\$15,218	\$11,991	\$11,065	\$12,276	\$9,662	\$14,341	\$17,319	\$26,212	\$23,619	\$20,445
(8) Ending Res-NH Balance Under/(Over) Recovery	\$305,079	\$286,229	\$271,513	\$260,010	\$249,454	\$237,666	\$228,455	\$171,125	\$154,126	\$128,243	\$104,924	\$84,702
(9) Average Monthly Balance Under/(Over) Recovery	\$318,990	\$295,916	\$279,122	\$266,005	\$254,986	\$243,803	\$233,286	\$173,202	\$163,786	\$141,349	\$116,733	\$94,925
(10) Bk America Rate less 200 Basis Points	2.00%	2.00%	2.13%	2.25%	2.25%	2.25%	2.25%	2.25%	2.25%	2.38%	2.50%	2.58%
(11) Interest Applied	\$524	\$503	\$488	\$508	\$487	\$451	\$446	\$446	\$320	\$328	\$300	\$224
(12) ISR Res-NH Recon End Balance Under/(Over) Recovery	\$305,603	\$286,732	\$272,001	\$260,518	\$249,941	\$238,117	\$228,901	\$171,445	\$154,454	\$128,543	\$105,147	\$84,910
(13) ISR Res-H Acct Beg. Balance Under/(Over) Recovery	\$2,139,007	\$1,348,819	\$985,124	\$753,907	\$608,013	\$477,856	\$344,596	\$209,322	\$3,598,422	\$3,141,559	\$2,296,033	\$1,614,037
(14) ISR Recon DAC True-up	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$38,194)	\$0	\$0	\$0
(15) FY 2016 Recon	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$389,931	\$0	\$0	\$0
(16) FY 2017 Recon	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,461,838	\$0	\$0	\$0
(17) Interest Applied on FY17 balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$44,105	\$0	\$0	\$0
(18) Total FY 2017 Recon	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,505,943	\$0	\$0	\$0
(19) Actual Res-H Revenue	\$793,052	\$365,676	\$232,734	\$147,195	\$131,193	\$134,020	\$135,803	\$304,015	\$463,654	\$851,293	\$685,741	\$531,438
(20) Ending Res-H Balance Under/(Over) Recovery	\$1,345,955	\$983,143	\$752,390	\$606,713	\$476,819	\$343,836	\$208,793	\$3,591,859	\$3,134,768	\$2,290,266	\$1,610,291	\$1,082,599
(21) Average Monthly Balance Under/(Over) Recovery	\$1,742,481	\$1,165,981	\$868,757	\$680,310	\$542,416	\$410,846	\$276,695	\$3,548,901	\$3,366,595	\$2,715,913	\$1,933,162	\$1,248,318
(22) Bk America Rate less 200 Basis Points	2.00%	2.00%	2.13%	2.25%	2.25%	2.25%	2.25%	2.25%	2.25%	2.38%	2.50%	2.58%
(23) Interest Applied	\$2,864	\$1,981	\$1,517	\$1,300	\$1,037	\$760	\$529	\$6,563	\$6,791	\$5,767	\$3,746	\$2,955
(24) ISR Res-H Recon End Balance Under/(Over) Recovery	\$1,348,819	\$985,124	\$753,907	\$608,013	\$477,856	\$344,596	\$209,322	\$3,598,422	\$3,141,559	\$2,296,033	\$1,614,037	\$1,085,554

- (2) AEL-10S, Pg 8, Line (15)
- (3) Dkt 4708, AEL-8S, Pg 1, Line (3), Col (g)
- (4) Dkt 4708, AEL-8S, Pg 1, Line (3), Col (f)
- (5) Apr17-Oct17 @ BOA Rate less 200 Basis Points
- (6) Line (4) + Line (5)
- (14) AEL-10S, Pg 8, Line (16)
- (15) Dkt 4708, AEL-8S, Pg 1, Line (4), Col (g)
- (16) Dkt 4708, AEL-8S, Pg 1, Line (4), Col (f)
- (17) Apr17-Oct17 @ BOA Rate less 200 Basis Points
- (18) Line (16) + Line (17)

National Grid - RI Gas
ISR Reconciliation (April 2016 - March 2017)

	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18
	30	31	30	31	31	30	31	30	31	31	28	31
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	Actual	Actual
(25) ISR Small C&I Acct Beg. Balance Under/(Over) Recovery	\$289,347	\$160,037	\$114,645	\$86,652	\$68,783	\$33,331	\$37,053	\$20,752	\$709,217	\$623,042	\$439,570	\$300,337
(26) ISR Recon DAC True-up	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$29,365	\$0	\$0	\$0
(27) FY 2016 Recon	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50,116	\$0	\$0	\$0
(28) FY 2017 Recon	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$690,460	\$0	\$0	\$0
(29) Interest Applied on FY17 balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,797	\$0	\$0	\$0
(30) Total FY 2017 Recon	\$129,680	\$45,625	\$28,168	\$18,017	\$15,568	\$16,361	\$16,357	\$41,458	\$87,517	\$184,599	\$139,442	\$105,899
(31) Actual Small C&I Revenue	\$159,668	\$114,411	\$86,476	\$68,635	\$53,214	\$36,970	\$20,697	\$707,916	\$621,700	\$438,443	\$30,128	\$194,938
(32) Ending Small C&I Balance Under/(Over) Recovery	\$224,507	\$137,224	\$100,560	\$77,643	\$60,999	\$45,150	\$28,875	\$703,586	\$663,458	\$530,743	\$369,849	\$247,888
(33) Average Monthly Balance Under/(Over) Recovery	2.00%	2.13%	2.25%	2.25%	2.25%	2.25%	2.25%	2.25%	2.25%	2.38%	2.50%	2.58%
(34) Bk America Rate less 200 Basis Points	\$369	\$233	\$176	\$148	\$117	\$83	\$55	\$1,301	\$1,342	\$1,127	\$709	\$543
(35) Interest Applied												
(36) ISR Small C&I Recon End Balance Under/(Over) Recovery	\$160,037	\$114,645	\$86,652	\$68,783	\$33,331	\$37,053	\$20,752	\$709,217	\$623,042	\$439,570	\$300,837	\$300,837
(37) ISR Medium Acct Beg. Balance Under/(Over) Recovery	\$486,469	\$336,475	\$270,095	\$220,658	\$187,520	\$153,778	\$118,413	\$81,423	\$1,011,900	\$877,459	\$654,223	\$469,312
(38) ISR Recon DAC True-up	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$7,899)	\$0	\$0	\$0
(39) FY 2016 Recon	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$73,524	\$0	\$0	\$0
(40) FY 2017 Recon	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$994,351	\$0	\$0	\$0
(41) Interest Applied on FY17 balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,668	\$0	\$0	\$0
(42) Total FY 2017 Recon	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,007,019	\$0	\$0	\$0
(43) Actual Medium Revenue	\$150,670	\$66,895	\$49,865	\$33,527	\$34,068	\$35,617	\$37,181	\$70,508	\$136,345	\$224,860	\$185,987	\$142,599
(44) Ending Medium Balance Under/(Over) Recovery	\$335,800	\$269,580	\$220,230	\$187,131	\$153,452	\$118,161	\$81,232	\$1,010,035	\$875,555	\$652,599	\$468,236	\$326,713
(45) Average Monthly Balance Under/(Over) Recovery	\$411,134	\$303,028	\$245,162	\$203,894	\$170,486	\$135,970	\$99,822	\$1,008,527	\$945,728	\$765,029	\$561,230	\$398,013
(46) Bk America Rate less 200 Basis Points	2.00%	2.13%	2.25%	2.25%	2.25%	2.25%	2.25%	2.25%	2.25%	2.38%	2.50%	2.58%
(47) Interest Applied	\$676	\$515	\$428	\$390	\$326	\$251	\$191	\$1,865	\$1,904	\$1,624	\$1,076	\$872
(48) ISR Medium Recon End Balance Under/(Over) Recovery	\$336,475	\$270,095	\$220,658	\$187,520	\$153,778	\$118,413	\$81,423	\$1,011,900	\$877,459	\$654,223	\$469,312	\$327,586

(26) AEL-10S, Pg 8, Line (17)

(27) Dkt 4708, AEL-8S, Pg 1, Line (5), Col (g)

(28) Dkt 4708, AEL-8S, Pg 1, Line (5), Col (f)

(29) Apr17-Oct17 @ BOA Rate less 200 Basis Points

(30) Line (28) + Line (29)

(38) AEL-10S, Pg 8, Line (18)

(39) Dkt 4708, AEL-8S, Pg 1, Line (6), Col (g)

(40) Dkt 4708, AEL-8S, Pg 1, Line (6), Col (f)

(41) Apr17-Oct17 @ BOA Rate less 200 Basis Points

(42) Line (40) + Line (41)

National Grid - RI Gas
ISR Reconciliation (April 2016 - March 2017)

(49) ISR Large LL Acct Beg Balance Under/(Over) Recovery	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18			
(50) ISR Recon DAC True-up	30	31	30	31	31	30	31	30	31	31	28			
(51) FY 2016 Recon	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual			
(52) FY 2017 Recon	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)			
(53) Interest Applied on FY17 balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
(54) Total FY 2017 Recon	\$96,578	\$72,913	\$58,033	\$46,807	\$37,504	\$26,304	\$12,239	\$407,266	\$342,705	\$239,833	\$153,522			
(55) Actual Large LL Revenue	\$95,807	\$23,809	\$14,994	\$11,327	\$9,384	\$11,258	\$14,102	\$29,714	\$65,316	\$103,490	\$86,687	\$57,111		
(56) Ending Large LL Balance Under/(Over) Recovery	\$96,340	\$72,769	\$57,919	\$46,707	\$37,423	\$26,245	\$12,202	\$406,495	\$341,950	\$239,215	\$153,146	\$96,411		
(57) Average Monthly Balance Under/(Over) Recovery	\$144,244	\$84,673	\$63,416	\$52,370	\$42,115	\$31,874	\$19,253	\$416,996	\$374,608	\$290,960	\$196,489	\$124,967		
(58) Bk America Rate less 200 Basis Points	2.00%		2.13%		2.25%		2.25%		2.25%		2.38%		2.50%	
(59) Interest Applied	\$237	\$144	\$114	\$100	\$80	\$59	\$37	\$771	\$756	\$618	\$377	\$274		
(60) ISR Large LL Recon End Balance Under/(Over) Recovery	\$96,578	\$72,913	\$58,033	\$46,807	\$37,504	\$26,304	\$12,239	\$407,266	\$342,705	\$239,833	\$153,522	\$96,685		
(61) ISR Large HL Acct Beg Balance Under/(Over) Recovery	\$107,607	\$84,310	\$70,423	\$55,826	\$43,167	\$31,186	\$15,863	\$2,072	\$135,751	\$122,113	\$103,415	\$85,699		
(62) ISR Recon DAC True-up	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
(63) FY 2016 Recon	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
(64) FY 2017 Recon	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
(65) Interest Applied on FY17 balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
(66) Total FY 2017 Recon	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
(67) Actual Large HL Revenue	\$23,455	\$14,018	\$14,706	\$12,754	\$12,052	\$15,366	\$13,809	\$14,350	\$13,898	\$18,937	\$17,898	\$12,413		
(68) Ending Large HL Balance Under/(Over) Recovery	\$84,152	\$70,291	\$55,716	\$43,073	\$31,115	\$15,820	\$2,055	\$135,489	\$121,853	\$103,176	\$85,518	\$73,286		
(69) Average Monthly Balance Under/(Over) Recovery	\$95,879	\$77,300	\$63,069	\$49,450	\$37,141	\$23,503	\$8,959	\$141,691	\$128,802	\$112,645	\$94,467	\$79,493		
(70) Bk America Rate less 200 Basis Points	2.00%		2.13%		2.25%		2.25%		2.25%		2.38%		2.50%	
(71) Interest Applied	\$158	\$131	\$110	\$94	\$71	\$43	\$17	\$262	\$260	\$239	\$181	\$174		
(72) ISR Large HL Recon End Balance Under/(Over) Recovery	\$84,310	\$70,423	\$55,826	\$43,167	\$31,186	\$15,863	\$2,072	\$135,751	\$122,113	\$103,415	\$85,699	\$73,460		

(50) AEL-10S, Pg 8, Line (19)

(51) Dkt 4708, AEL-8S, Pg 1, Line (7), Col (g)

(52) Dkt 4708, AEL-8S, Pg 1, Line (7), Col (f)

(53) Apr17-Oct17 @ BOA Rate less 200 Basis Points

(54) Line (52) + Line (53)

(62) AEL-10S, Pg 8, Line (20)

(63) Dkt 4708, AEL-8S, Pg 1, Line (8), Col (g)

(64) Dkt 4708, AEL-8S, Pg 1, Line (8), Col (f)

(65) Apr17-Oct17 @ BOA Rate less 200 Basis Points

(66) Line (64) + Line (65)

National Grid - RI Gas
ISR Reconciliation (April 2016 - March 2017)

	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18
	30	31	30	31	31	30	31	30	31	31	28
(a)	Actual	Actual	Actual	Actual							
(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(l)
(73) ISR XL LL Acct Beg. Balance Under/(Over) Recovery	\$8,158	\$2,658	\$2,236	\$1,497	\$1,598	\$1,288	\$738	\$28	\$26,037	\$21,551	\$15,802
(74) ISR Recon DAC True-up	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(75) FY 2016 Recon	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(76) FY 2017 Recon	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(77) Interest Applied on FY17 balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(78) Total FY 2017 Recon	\$0	\$426	\$742	(\$98)	\$313	\$552	\$711	\$1,678	\$4,533	\$5,789	\$4,903
(79) Actual XL LL Revenue	\$5,509	\$2,232	\$1,494	\$1,595	\$1,285	\$736	\$27	\$25,986	\$21,503	\$15,762	\$10,899
(80) Ending XL LL Balance Under/(Over) Recovery	\$2,649	\$2,445	\$1,865	\$1,546	\$1,442	\$1,012	\$383	\$27,238	\$23,770	\$13,350	\$9,798
(81) Average Monthly Balance Under/(Over) Recovery	\$5,403	2.00%	2.13%	2.25%	2.25%	2.25%	2.25%	2.25%	2.25%	2.25%	2.25%
(82) Bk America Rate less 200 Basis Points	\$9	\$4	\$3	\$3	\$2	\$1	\$50	\$48	\$40	\$26	\$21
(83) Interest Applied	\$2,658	\$2,236	\$1,497	\$1,598	\$1,288	\$738	\$28	\$26,037	\$21,551	\$15,802	\$10,924
(84) ISR XL LL Recon End Balance Under/(Over) Recovery											
(85) ISR XL HL Acct Beg. Balance Under/(Over) Recovery	\$56,298	\$46,456	\$40,797	\$34,340	\$27,579	\$20,672	\$13,542	\$8,260	\$41,002	\$37,320	\$33,027
(86) ISR Recon DAC True-up	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$2,982)	\$0	\$0	\$0
(87) FY 2016 Recon	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(88) FY 2017 Recon	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(89) Interest Applied on FY17 balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(90) Total FY 2017 Recon	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(91) Actual XL HL Revenue	\$9,926	\$5,734	\$46,372	\$40,723	\$34,274	\$27,520	\$20,626	\$13,510	\$5,302	\$5,577	\$4,368
(92) Ending XL HL Balance Under/(Over) Recovery	\$46,372	\$40,723	\$34,274	\$27,520	\$20,626	\$13,510	\$8,239	\$40,926	\$37,241	\$32,953	\$28,939
(93) Average Monthly Balance Under/(Over) Recovery	\$51,335	\$43,589	\$37,555	\$30,930	\$24,102	\$17,091	\$10,891	\$41,075	\$39,122	\$35,137	\$30,983
(94) Bk America Rate less 200 Basis Points	2.00%	2.13%	2.25%	2.25%	2.25%	2.25%	2.25%	2.25%	2.25%	2.25%	2.25%
(95) Interest Applied	\$84	\$74	\$66	\$59	\$46	\$32	\$21	\$21	\$76	\$75	\$59
(96) ISR XL HL Recon End Balance Under/(Over) Recovery	\$46,456	\$40,797	\$34,340	\$27,579	\$20,672	\$13,542	\$8,260	\$41,002	\$37,320	\$33,027	\$28,999

(74) AEL-10S, Pg 8, Line (21)

(75) Dkt 4708, AEL-8S, Pg 1, Line (9), Col (g)

(76) Dkt 4708, AEL-8S, Pg 1, Line (9), Col (f)

(77) Apr17-Oct17 @ BOA Rate less 200 Basis

(78) Line (76) + Line (77)

(86) AEL-10S, Pg 8, Line (22)

(87) Dkt 4708, AEL-8S, Pg 1, Line (10), Col (g)

(88) Dkt 4708, AEL-8S, Pg 1, Line (10), Col (f)

(89) Apr17-Oct17 @ BOA Rate less 200 Basis
200 1 200 1

(90) Line (88) + Line (89)

**Schedule
AEL-12S**

**THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC DOCKET NO. 4846
SUPPLEMENTAL DISTRIBUTION ADJUSTMENT CHARGE FILING
WITNESS: ANN E. LEARY**

**Schedule AEL-12S
Earnings Sharing Mechanism Factor**

National Grid - RI Gas
ESM Factor
Effective November 1, 2018

Description		
1	Total Earnings Credited to DAC	\$0
2	Firm Throughput	39,687,032 dth
3	ESM Factor	\$0.0000 per dth
4	ESM Factor	\$0.0000 per therm

1 Earnings Sharing Report for the twelves months ending March 31, 2018 in
Docket 4846 filed on August 31, 2018.

2 Company Forecast

3 Line (1) ÷ Line (2)

4 Line (3) ÷ 10, truncated to 4 decimal places

**Schedule
AEL-13**

**THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC DOCKET NO. 4846
SUPPLEMENTAL DISTRIBUTION ADJUSTMENT CHARGE FILING
WITNESS: ANN E. LEARY**

Schedule AEL-13
Low Income Discount Recovery Factor

Narragansett Gas
Calculation of Low Income Discount Recovery Factor (LIDRF)

(1) Estimated Discount Provided, Rate Year	\$5,288,107
(2) Forecasted Therms, Rate Year	<u>382,978,622</u>
(3) Low Income Discount Recovery Factor	\$0.0138
(1) Page 2, Col (g), Line (11)	
(2) Company Forecast excluding Rates 11 and 13	
(3) Line (1) ÷ Line (2), truncated to four decimal places	

Narragansett Gas
Calculation of Low Income Discount

	Rate Year			Rate Year			<u>Total</u> <u>Charges</u> (g)
	Rate 11 <u>Units</u> (a)	Rate 11 <u>Rate</u> (b)	<u>Charges</u> (c)	Rate 13 <u>Units</u> (d)	Rate 13 <u>Rate</u> (e)	<u>Charges</u> (f)	
(1) Customer Charge	3,187	\$14.00	\$44,618	212,803	\$14.00	\$2,979,242	\$3,023,860
(2) LIHEAP Enhancement Surcharge	3,187	\$0.81	\$2,581	212,803	\$0.81	\$172,370	\$174,951
(3) Distribution Charge Peak	104,037	\$0.5456	\$56,763	11,130,719	\$0.5534	\$6,159,740	\$6,216,502
Distribution Charge Off Peak				2,656,941	\$0.4960	\$1,317,843	\$1,317,843
(4) DAC	104,037	(\$0.0470)	(\$4,890)	13,787,660	(\$0.0391)	(\$539,098)	(\$543,987)
(5) Low Income Discount Recovery Factor	104,037	\$0.0000	\$0	13,787,660	\$0.0000	\$0	\$0
(6) Energy Efficiency Program Charge	104,037	\$0.0858	\$8,926	13,787,660	\$0.0858	\$1,182,981	\$1,191,908
(7) Total Delivery Service Charges			\$107,998			\$11,273,078	\$11,381,076
(8) Commodity Charge	104,037	\$0.6100	\$63,462	13,787,660	\$0.7041	\$9,707,891	\$9,771,354
(9) Total			\$171,461			\$20,980,970	\$21,152,430
(10) Low Income Discount Percentage			25%			25%	
(11) Low Income Discount			\$42,865			\$5,245,242	\$5,288,107

Column Descriptions:

Column (a) & (d): Company Forecast

Column (b) & (e), Line (1) & (3): Docket 4770

Column (b) & (e), Line (2): Approved LIHEAP surcharge effective January 1, 2018 per Docket 4290

Column (b) & (e), Line (4): Proposed DAC factor effective November 1, 2018 per Docket 4846

Column (b) & (e), Line (6): Approved EE factor effective September 1, 2018 per Docket 4770

Column (b) & (e), Line (8): Proposed GCR factor effective Novemer 1, 2018 per Docket 4872

Column (c), Lines (1)-(6), (8): Col (a) * Col (b)

Column (f), Lines (1)-(6), (8): Col (d) * Col (e)

Column (g), Lines (1)-(6), (8): Col (c) + Col (f)

Line (7): Sum of Lines (1):(6)

Line (9): Line (7) + Line (8)

**Schedule
AEL-14**

**THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC DOCKET NO. 4846
SUPPLEMENTAL DISTRIBUTION ADJUSTMENT CHARGE FILING
WITNESS: ANN E. LEARY**

Schedule AEL-14
Low Income Discount Recovery Factor

National Grid - RI Gas
 Supplemental Distribution Adjustment Charge (DAC) Filing
 Bill Impact Analysis with Various Levels of Consumption

Residential Heating:

						Difference due to:							
						DAC		ISR		EE		LIHEAP	
(1)	(2)	(3)	Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference	% Chg	GCR	Base DAC	ISR	EE	LIHEAP	GET
(4)													
(5)	548	\$948.61	\$981.27	(\$32.66)	-3.3%	\$0.00	(\$31.68)	\$0.00	\$0.00	\$0.00	\$0.00	(\$0.98)	
(6)	608	\$1,032.44	\$1,088.70	(\$36.26)	-3.4%	\$0.00	(\$35.17)	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.09)	
(7)	667	\$1,114.86	\$1,154.61	(\$39.75)	-3.4%	\$0.00	(\$38.56)	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.19)	
(8)	726	\$1,197.27	\$1,240.54	(\$43.27)	-3.5%	\$0.00	(\$41.97)	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.30)	
(9)	785	\$1,279.64	\$1,326.42	(\$46.78)	-3.5%	\$0.00	(\$45.38)	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.40)	
(10)	845	\$1,363.46	\$1,413.81	(\$50.35)	-3.6%	\$0.00	(\$48.84)	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.51)	
(11)	905	\$1,447.26	\$1,501.18	(\$53.92)	-3.6%	\$0.00	(\$52.30)	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.62)	
(12)	964	\$1,529.65	\$1,587.11	(\$57.45)	-3.6%	\$0.00	(\$55.73)	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.72)	
(13)	1,023	\$1,612.06	\$1,673.03	(\$60.97)	-3.6%	\$0.00	(\$59.14)	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.83)	
(14)	1,082	\$1,694.48	\$1,758.94	(\$64.46)	-3.7%	\$0.00	(\$62.53)	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.93)	
(15)	1,142	\$1,778.32	\$1,846.34	(\$68.02)	-3.7%	\$0.00	(\$65.98)	\$0.00	\$0.00	\$0.00	\$0.00	(\$2.04)	

Residential Heating Low Income:

						Difference due to:							
						DAC		ISR		EE		LIHEAP	
(16)	(17)	(18)	Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference	% Chg	GCR	Base DAC	ISR	EE	LIHEAP	GET
(19)													
(20)	548	\$705.52	\$730.84	(\$25.31)	-3.5%	\$0.00	\$8.18	(\$32.74)	\$0.00	\$0.00	\$0.00	\$0.00	(\$0.76)
(21)	608	\$767.76	\$795.82	(\$28.06)	-3.5%	\$0.00	\$9.07	(\$36.29)	\$0.00	\$0.00	\$0.00	\$0.00	(\$0.84)
(22)	667	\$828.92	\$859.71	(\$30.78)	-3.6%	\$0.00	\$9.95	(\$39.81)	\$0.00	\$0.00	\$0.00	\$0.00	(\$0.92)
(23)	726	\$890.10	\$923.61	(\$33.51)	-3.6%	\$0.00	\$10.84	(\$43.34)	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.01)
(24)	785	\$951.23	\$987.47	(\$36.24)	-3.7%	\$0.00	\$11.72	(\$46.87)	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.09)
(25)	845	\$1,013.45	\$1,052.44	(\$38.99)	-3.7%	\$0.00	\$12.61	(\$50.43)	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.17)
(26)	905	\$1,075.66	\$1,117.42	(\$41.77)	-3.7%	\$0.00	\$13.51	(\$54.02)	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.25)
(27)	964	\$1,136.81	\$1,181.30	(\$44.49)	-3.8%	\$0.00	\$14.39	(\$57.54)	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.33)
(28)	1,023	\$1,197.98	\$1,245.19	(\$47.20)	-3.8%	\$0.00	\$15.26	(\$61.05)	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.42)
(29)	1,082	\$1,259.14	\$1,309.08	(\$49.94)	-3.8%	\$0.00	\$16.15	(\$64.59)	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.50)
(30)	1,142	\$1,321.35	\$1,374.08	(\$52.73)	-3.8%	\$0.00	\$17.05	(\$68.20)	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.58)

National Grid - RI Gas
 Supplemental Distribution Adjustment Charge (DAC) Filing
 Bill Impact Analysis with Various Levels of Consumption

Residential Non-Heating:

						Difference due to:					
(31)	(32)	Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference	DAC			Difference due to:		
(33)	(34)				% Chg	GCR	Base DAC	ISR	EE	LIHEAP	GET
(35)	144	\$377.28	\$391.04	(\$13.75)	-3.5%	\$0.00	(\$13.34)	\$0.00	\$0.00	\$0.00	(\$0.41)
(36)	158	\$396.12	\$411.22	(\$15.10)	-3.7%	\$0.00	(\$14.65)	\$0.00	\$0.00	\$0.00	(\$0.45)
(37)	172	\$415.03	\$431.46	(\$16.42)	-3.8%	\$0.00	(\$15.93)	\$0.00	\$0.00	\$0.00	(\$0.49)
(38)	189	\$437.98	\$456.03	(\$18.05)	-4.0%	\$0.00	(\$17.51)	\$0.00	\$0.00	\$0.00	(\$0.54)
(39)	202	\$455.50	\$474.78	(\$19.29)	-4.1%	\$0.00	(\$18.71)	\$0.00	\$0.00	\$0.00	(\$0.58)
(40)	220	\$479.72	\$500.75	(\$21.03)	-4.2%	\$0.00	(\$20.40)	\$0.00	\$0.00	\$0.00	(\$0.63)
(41)	238	\$503.99	\$526.72	(\$22.73)	-4.3%	\$0.00	(\$22.05)	\$0.00	\$0.00	\$0.00	(\$0.68)
(42)	251	\$521.54	\$545.51	(\$23.97)	-4.4%	\$0.00	(\$23.25)	\$0.00	\$0.00	\$0.00	(\$0.72)
(43)	268	\$544.46	\$570.06	(\$25.60)	-4.5%	\$0.00	(\$24.83)	\$0.00	\$0.00	\$0.00	(\$0.77)
(44)	282	\$563.30	\$590.26	(\$26.96)	-4.6%	\$0.00	(\$26.15)	\$0.00	\$0.00	\$0.00	(\$0.81)
(45)	297	\$583.51	\$611.88	(\$28.37)	-4.6%	\$0.00	(\$27.52)	\$0.00	\$0.00	\$0.00	(\$0.85)

Residential Non-Heating Low Income:

						Difference due to:					
(46)	(47)	Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference	DAC			Difference due to:		
(48)	(49)				% Chg	GCR	Base DAC	ISR	EE	LIHEAP	GET
(50)	144	\$281.39	\$291.95	(\$10.55)	-3.6%	\$0.00	\$3.41	(\$13.65)	\$0.00	\$0.00	(\$0.32)
(51)	158	\$295.40	\$306.95	(\$11.54)	-3.8%	\$0.00	\$3.73	(\$14.93)	\$0.00	\$0.00	(\$0.35)
(52)	172	\$309.40	\$321.99	(\$12.59)	-3.9%	\$0.00	\$4.07	(\$16.28)	\$0.00	\$0.00	(\$0.38)
(53)	189	\$326.43	\$340.25	(\$13.82)	-4.1%	\$0.00	\$4.47	(\$17.87)	\$0.00	\$0.00	(\$0.41)
(54)	202	\$339.42	\$354.20	(\$14.78)	-4.2%	\$0.00	\$4.78	(\$19.12)	\$0.00	\$0.00	(\$0.44)
(55)	220	\$357.42	\$373.51	(\$16.09)	-4.3%	\$0.00	\$5.20	(\$20.81)	\$0.00	\$0.00	(\$0.48)
(56)	238	\$375.43	\$392.82	(\$17.40)	-4.4%	\$0.00	\$5.63	(\$22.50)	\$0.00	\$0.00	(\$0.52)
(57)	251	\$388.43	\$406.80	(\$18.37)	-4.5%	\$0.00	\$5.94	(\$23.76)	\$0.00	\$0.00	(\$0.55)
(58)	268	\$405.43	\$425.03	(\$19.60)	-4.6%	\$0.00	\$6.34	(\$25.35)	\$0.00	\$0.00	(\$0.59)
(59)	282	\$419.44	\$440.05	(\$20.61)	-4.7%	\$0.00	\$6.66	(\$26.65)	\$0.00	\$0.00	(\$0.62)
(60)	297	\$434.42	\$456.13	(\$21.71)	-4.8%	\$0.00	\$7.02	(\$28.08)	\$0.00	\$0.00	(\$0.65)

National Grid - RI Gas
 Supplemental Distribution Adjustment Charge (DAC) Filing
 Bill Impact Analysis with Various Levels of Consumption

C & I Small:

						Difference due to:					
						DAC	Base DAC	ISR	EE	LIHEAP	GET
			% Chg	GCR							
(61)	(62)	Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference						
(63)	(64)										
(65)	830	\$1,397.21	\$1,462.48	(\$65.27)	-4.5%	\$0.00	(\$63.31)	\$0.00	\$0.00	\$0.00	(\$1.96)
(66)	919	\$1,512.75	\$1,585.05	(\$72.30)	-4.6%	\$0.00	(\$70.13)	\$0.00	\$0.00	\$0.00	(\$2.17)
(67)	1,010	\$1,630.91	\$1,710.35	(\$79.44)	-4.6%	\$0.00	(\$77.06)	\$0.00	\$0.00	\$0.00	(\$2.38)
(68)	1,099	\$1,746.54	\$1,832.98	(\$86.44)	-4.7%	\$0.00	(\$83.85)	\$0.00	\$0.00	\$0.00	(\$2.59)
(69)	1,187	\$1,860.87	\$1,954.24	(\$93.37)	-4.8%	\$0.00	(\$90.57)	\$0.00	\$0.00	\$0.00	(\$2.80)
(70)	1,277	\$1,977.67	\$2,078.14	(\$100.46)	-4.8%	\$0.00	(\$97.45)	\$0.00	\$0.00	\$0.00	(\$3.01)
(71)	1,367	\$2,094.52	\$2,202.05	(\$107.54)	-4.9%	\$0.00	(\$104.31)	\$0.00	\$0.00	\$0.00	(\$3.23)
(72)	1,456	\$2,210.12	\$2,324.67	(\$114.56)	-4.9%	\$0.00	(\$111.12)	\$0.00	\$0.00	\$0.00	(\$3.44)
(73)	1,544	\$2,324.46	\$2,445.92	(\$121.46)	-5.0%	\$0.00	(\$117.82)	\$0.00	\$0.00	\$0.00	(\$3.64)
(74)	1,635	\$2,442.61	\$2,571.23	(\$128.62)	-5.0%	\$0.00	(\$124.76)	\$0.00	\$0.00	\$0.00	(\$3.86)
(75)	1,725	\$2,559.44	\$2,695.15	(\$135.71)	-5.0%	\$0.00	(\$131.64)	\$0.00	\$0.00	\$0.00	(\$4.07)

C & I Medium:

						Difference due to:					
				DAC	Base DAC	ISR	EE	LIHEAP	GET		
			% Chg	GCR							
(76)	(77)	Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference						
(78)	(79)										
(80)	6,907	\$9,166.28	\$9,569.99	(\$403.71)	-4.2%	\$0.00	(\$391.60)	\$0.00	\$0.00	\$0.00	(\$12.11)
(81)	7,650	\$10,038.28	\$10,485.46	(\$447.19)	-4.3%	\$0.00	(\$433.77)	\$0.00	\$0.00	\$0.00	(\$13.42)
(82)	8,391	\$10,907.48	\$11,397.94	(\$490.45)	-4.3%	\$0.00	(\$475.74)	\$0.00	\$0.00	\$0.00	(\$14.71)
(83)	9,136	\$11,781.63	\$12,315.67	(\$534.04)	-4.3%	\$0.00	(\$518.02)	\$0.00	\$0.00	\$0.00	(\$16.02)
(84)	9,880	\$12,654.68	\$13,232.18	(\$577.51)	-4.4%	\$0.00	(\$560.18)	\$0.00	\$0.00	\$0.00	(\$17.33)
(85)	10,623	\$13,526.68	\$14,147.63	(\$620.95)	-4.4%	\$0.00	(\$602.32)	\$0.00	\$0.00	\$0.00	(\$18.63)
(86)	11,366	\$14,398.63	\$15,063.01	(\$664.38)	-4.4%	\$0.00	(\$644.45)	\$0.00	\$0.00	\$0.00	(\$19.93)
(87)	12,111	\$15,272.81	\$15,980.73	(\$707.92)	-4.4%	\$0.00	(\$686.68)	\$0.00	\$0.00	\$0.00	(\$21.24)
(88)	12,855	\$16,145.87	\$16,897.30	(\$751.42)	-4.4%	\$0.00	(\$728.88)	\$0.00	\$0.00	\$0.00	(\$22.54)
(89)	13,596	\$17,015.02	\$17,809.78	(\$794.76)	-4.5%	\$0.00	(\$770.92)	\$0.00	\$0.00	\$0.00	(\$23.84)
(90)	14,340	\$17,888.10	\$18,726.32	(\$838.22)	-4.5%	\$0.00	(\$813.07)	\$0.00	\$0.00	\$0.00	(\$25.15)

National Grid - RI Gas
 Supplemental Distribution Adjustment Charge (DAC) Filing
 Bill Impact Analysis with Various Levels of Consumption

C & I HLF Large:

												Difference due to:	
												DAC	ISR
										Base DAC	EE	LIHEAP	GET
(91)	(92)	(93)	Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference	% Chg	GCR					
(94)													
(95)	37,587	\$47,566.59	\$48,934.46	(\$1,367.88)	-2.8%		\$0.00	(\$1,326.84)	\$0.00	\$0.00	\$0.00	\$0.00	(\$41.04)
(96)	41,634	\$52,420.29	\$53,935.44	(\$1,515.14)	-2.8%		\$0.00	(\$1,469.69)	\$0.00	\$0.00	\$0.00	\$0.00	(\$45.45)
(97)	45,683	\$57,276.78	\$58,939.25	(\$1,662.47)	-2.8%		\$0.00	(\$1,612.60)	\$0.00	\$0.00	\$0.00	\$0.00	(\$49.87)
(98)	49,731	\$62,132.21	\$63,942.02	(\$1,809.80)	-2.8%		\$0.00	(\$1,755.51)	\$0.00	\$0.00	\$0.00	\$0.00	(\$54.29)
(99)	53,777	\$66,984.79	\$68,941.83	(\$1,957.04)	-2.8%		\$0.00	(\$1,898.33)	\$0.00	\$0.00	\$0.00	\$0.00	(\$58.71)
(100)	57,825	\$71,840.20	\$73,944.56	(\$2,104.36)	-2.8%		\$0.00	(\$2,041.23)	\$0.00	\$0.00	\$0.00	\$0.00	(\$63.13)
(101)	61,873	\$76,695.63	\$78,947.29	(\$2,251.66)	-2.9%		\$0.00	(\$2,184.11)	\$0.00	\$0.00	\$0.00	\$0.00	(\$67.55)
(102)	65,920	\$81,549.29	\$83,948.25	(\$2,398.96)	-2.9%		\$0.00	(\$2,326.99)	\$0.00	\$0.00	\$0.00	\$0.00	(\$71.97)
(103)	69,967	\$86,403.61	\$88,949.85	(\$2,546.24)	-2.9%		\$0.00	(\$2,469.85)	\$0.00	\$0.00	\$0.00	\$0.00	(\$76.39)
(104)	74,016	\$91,260.14	\$93,953.70	(\$2,693.56)	-2.9%		\$0.00	(\$2,612.75)	\$0.00	\$0.00	\$0.00	\$0.00	(\$80.81)
(105)	78,063	\$96,113.81	\$98,954.66	(\$2,840.85)	-2.9%		\$0.00	(\$2,755.62)	\$0.00	\$0.00	\$0.00	\$0.00	(\$85.23)

C & I HLF Large:

												Difference due to:	
										DAC	ISR		
								Base DAC	EE	LIHEAP	GET		
(106)	(107)	(108)	Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference	% Chg	GCR					
(109)													
(110)	41,956	\$46,452.85	\$47,728.84	(\$1,275.99)	-2.7%		\$0.00	(\$1,237.71)	\$0.00	\$0.00	\$0.00	\$0.00	(\$38.28)
(111)	46,471	\$51,184.66	\$52,597.93	(\$1,413.28)	-2.7%		\$0.00	(\$1,370.88)	\$0.00	\$0.00	\$0.00	\$0.00	(\$42.40)
(112)	50,991	\$55,921.15	\$57,471.92	(\$1,550.76)	-2.7%		\$0.00	(\$1,504.24)	\$0.00	\$0.00	\$0.00	\$0.00	(\$46.52)
(113)	55,507	\$60,653.86	\$62,341.96	(\$1,688.10)	-2.7%		\$0.00	(\$1,637.46)	\$0.00	\$0.00	\$0.00	\$0.00	(\$50.64)
(114)	60,028	\$65,391.36	\$67,216.94	(\$1,825.59)	-2.7%		\$0.00	(\$1,770.82)	\$0.00	\$0.00	\$0.00	\$0.00	(\$54.77)
(115)	64,545	\$70,124.99	\$72,087.96	(\$1,962.97)	-2.7%		\$0.00	(\$1,904.08)	\$0.00	\$0.00	\$0.00	\$0.00	(\$58.89)
(116)	69,062	\$74,858.65	\$76,938.99	(\$2,100.34)	-2.7%		\$0.00	(\$2,037.33)	\$0.00	\$0.00	\$0.00	\$0.00	(\$63.01)
(117)	73,583	\$79,596.15	\$81,833.98	(\$2,237.82)	-2.7%		\$0.00	(\$2,170.69)	\$0.00	\$0.00	\$0.00	\$0.00	(\$67.13)
(118)	78,099	\$84,328.87	\$86,704.04	(\$2,375.16)	-2.7%		\$0.00	(\$2,303.91)	\$0.00	\$0.00	\$0.00	\$0.00	(\$71.25)
(119)	82,619	\$89,065.40	\$91,578.04	(\$2,512.64)	-2.7%		\$0.00	(\$2,437.26)	\$0.00	\$0.00	\$0.00	\$0.00	(\$75.38)
(120)	87,137	\$93,800.92	\$96,450.96	(\$2,650.04)	-2.7%		\$0.00	(\$2,570.54)	\$0.00	\$0.00	\$0.00	\$0.00	(\$79.50)

National Grid - RI Gas
 Supplemental Distribution Adjustment Charge (DAC) Filing
 Bill Impact Analysis with Various Levels of Consumption

C & I LLF Extra-Large:

						Difference due to:						
(121)	(122)	Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference							
(123)	(124)				% Chg	GCR	DAC		ISR	EE	LIHEAP	GET
(125)	233,835	\$237,511.07	\$240,813.68	(\$3,302.61)	-1.4%	\$0.00	(\$3,203.53)	\$0.00	\$0.00	\$0.00	(\$99.08)	
(126)	259,019	\$262,423.47	\$266,081.76	(\$3,558.30)	-1.4%	\$0.00	(\$3,548.55)	\$0.00	\$0.00	\$0.00	(\$109.75)	
(127)	284,197	\$287,330.59	\$291,344.50	(\$4,013.91)	-1.4%	\$0.00	(\$3,893.49)	\$0.00	\$0.00	\$0.00	(\$120.42)	
(128)	309,381	\$312,242.97	\$316,612.58	(\$4,369.61)	-1.4%	\$0.00	(\$4,238.52)	\$0.00	\$0.00	\$0.00	(\$131.09)	
(129)	334,562	\$337,152.70	\$341,877.97	(\$4,725.27)	-1.4%	\$0.00	(\$4,583.51)	\$0.00	\$0.00	\$0.00	(\$141.76)	
(130)	359,745	\$362,064.22	\$367,145.19	(\$5,080.97)	-1.4%	\$0.00	(\$4,928.54)	\$0.00	\$0.00	\$0.00	(\$152.43)	
(131)	384,928	\$386,975.74	\$392,412.36	(\$5,436.62)	-1.4%	\$0.00	(\$5,273.52)	\$0.00	\$0.00	\$0.00	(\$163.10)	
(132)	410,110	\$411,886.40	\$417,678.67	(\$5,792.27)	-1.4%	\$0.00	(\$5,618.50)	\$0.00	\$0.00	\$0.00	(\$173.77)	
(133)	435,293	\$436,797.89	\$442,945.84	(\$6,147.95)	-1.4%	\$0.00	(\$5,963.51)	\$0.00	\$0.00	\$0.00	(\$184.44)	
(134)	460,471	\$461,705.00	\$468,285.54	(\$6,503.55)	-1.4%	\$0.00	(\$6,308.44)	\$0.00	\$0.00	\$0.00	(\$195.11)	
(135)	485,655	\$486,617.35	\$493,476.62	(\$6,859.27)	-1.4%	\$0.00	(\$6,653.49)	\$0.00	\$0.00	\$0.00	(\$205.78)	

C & I HLF Extra-Large:

						Difference due to:						
(136)	(137)	Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference							
(138)	(139)				% Chg	GCR	DAC		ISR	EE	LIHEAP	GET
(140)	486,528	\$450,632.16	\$456,550.75	(\$5,918.59)	-1.3%	\$0.00	(\$5,741.03)	\$0.00	\$0.00	\$0.00	(\$177.56)	
(141)	538,924	\$498,495.47	\$505,051.44	(\$6,555.97)	-1.3%	\$0.00	(\$6,359.29)	\$0.00	\$0.00	\$0.00	(\$196.68)	
(142)	591,320	\$546,357.94	\$553,551.31	(\$7,193.37)	-1.3%	\$0.00	(\$6,977.57)	\$0.00	\$0.00	\$0.00	(\$215.80)	
(143)	643,718	\$594,222.91	\$602,053.71	(\$7,830.79)	-1.3%	\$0.00	(\$7,595.87)	\$0.00	\$0.00	\$0.00	(\$234.92)	
(144)	696,109	\$642,081.21	\$650,549.35	(\$8,468.13)	-1.3%	\$0.00	(\$8,214.09)	\$0.00	\$0.00	\$0.00	(\$254.04)	
(145)	748,506	\$689,945.34	\$699,050.88	(\$9,105.54)	-1.3%	\$0.00	(\$8,832.37)	\$0.00	\$0.00	\$0.00	(\$273.17)	
(146)	800,903	\$737,809.48	\$747,552.42	(\$9,742.94)	-1.3%	\$0.00	(\$9,450.65)	\$0.00	\$0.00	\$0.00	(\$292.29)	
(147)	853,294	\$785,667.75	\$796,048.06	(\$10,380.31)	-1.3%	\$0.00	(\$10,068.90)	\$0.00	\$0.00	\$0.00	(\$311.41)	
(148)	905,692	\$833,532.71	\$844,550.42	(\$11,017.71)	-1.3%	\$0.00	(\$10,687.18)	\$0.00	\$0.00	\$0.00	(\$330.53)	
(149)	958,088	\$881,395.21	\$893,050.30	(\$11,655.09)	-1.3%	\$0.00	(\$11,305.44)	\$0.00	\$0.00	\$0.00	(\$349.65)	
(150)	1,010,485	\$929,259.33	\$941,551.82	(\$12,292.49)	-1.3%	\$0.00	(\$11,923.72)	\$0.00	\$0.00	\$0.00	(\$368.77)	

Testimony of
Melissa A. Little

**THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC DOCKET NO. 4846
SUPPLEMENTAL DISTRIBUTION ADJUSTMENT CHARGE FILING
WITNESS: MELISSA A. LITTLE
AUGUST 31, 2018**

DIRECT TESTIMONY

OF

MELISSA A. LITTLE

THE NARRAGANSETT ELECTRIC COMPANY
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1 I. Introduction

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

3 A. My name is Melissa A. Little and my business address is 40 Sylvan Road, Waltham,
4 Massachusetts 02451.

5

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

7 A. I am Director, New England Revenue Requirements for National Grid USA Service
8 Company, Inc. (the Service Company). The Service Company provides engineering,
9 financial, administrative, management, and other technical support to direct and indirect
10 subsidiary companies of National Grid USA (National Grid). My current duties include
11 revenue requirement responsibilities for National Grid's gas and electric distribution
12 activities in New England, including the electric and gas operations of The Narragansett
13 Electric Company d/b/a National Grid (the Company).

14

Q. Please describe your educational background and professional experience.

16 A. In 2000, I earned a Bachelor of Science degree in Accounting Information Systems from
17 Bentley College (now Bentley University) in Waltham, Massachusetts. In September
18 2000, I joined PricewaterhouseCoopers LLP in Boston, Massachusetts, where I worked
19 as an associate in the Assurance practice. In November 2004, I joined National Grid as
20 an analyst in the General Accounting group. After the merger of National Grid and
21 KeySpan Corporation in 2007, I joined the Regulation and Pricing department as a Senior

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1 Analyst in the Regulatory Accounting function and also supported the Revenue
2 Requirement team for the Company's upstate New York affiliate, Niagara Mohawk
3 Power Corporation. In 2011, I joined the New England Revenue Requirement team and
4 was promoted to Lead Specialist in the Regulation and Pricing department where my
5 duties included revenue requirement responsibilities for National Grid's electric and gas
6 distribution activities in New England, including the Company. In August 2017, I was
7 promoted to my current position.

8

9 **Q. Have you previously testified before the Rhode Island Public Utilities Commission**
10 **(the PUC)?**

11 A. Yes. I testified in support of the revenue requirement for the Company's Application to
12 Change Electric and Gas Base Distribution Rates in Docket No. 4770 and the Proposed
13 Power Sector Transformation (PST) Vision and Implementation Plan in Docket No. 4780
14 (2017 Rate Case). In addition, I have testified as the revenue requirement witness in
15 numerous Gas and Electric Infrastructure, Safety, and Reliability proceedings, and in
16 other matters before the PUC.

17

18 **II. Purpose of Testimony**

19 **Q. What is the purpose of your testimony in this proceeding?**
20 A. Pursuant to the Distribution Adjustment Clause provision of the Company's gas tariff,
21 RIPUC NG-GAS No. 101, Section 3, Schedule A, if there are any excess earnings to be

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1 shared with customers, as I describe in more detail below, then any customer share of
2 those earnings will flow back to customers through the Distribution Adjustment Charge
3 (DAC). My testimony describes the Company's gas earnings subject to the Company's
4 earnings sharing mechanism (ESM) for the 12-month period ending March 31, 2018.
5 As a result of the Company's general rate case in Docket No. 4323, effective February 1,
6 2013 (2012 Rate Case), the Company's gas earnings pertaining to the operation of the
7 ESM is measured over the Company's fiscal year (FY), which ends on March 31.

8

9 **Q. Are there any schedules to your testimony?**

10 A. Yes, I am sponsoring the following schedule that accompanies my testimony:
11 Schedule MAL-1 FY 2018 Earnings Report

12

13 **III. Earnings Sharing Mechanism Results**

14 **Q. Please provide the background for the ESM.**

15 A. In the Company's general rate case filed in 2006 in Docket No. 3401, Order No. 17381,
16 the PUC approved a settlement agreement between the Division of Public Utilities and
17 Carriers, The Energy Council of RI, and the Company (Docket 3401 Settlement
18 Agreement) that required the former New England Gas Company to file an earnings
19 sharing calculation, based on a 12-month period ending June 30, by September 1 of each
20 year as part of an incentive-based ESM. The Company assumed the obligations of the
21 Docket 3401 Settlement Agreement in connection with National Grid's acquisition of the

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1 regulated gas assets in Rhode Island from Southern Union Company (Southern Union) in
2 2006. As part of the Company's 2012 Rate Case and the resulting settlement agreement
3 in that proceeding, which was approved by the PUC in January 2013, the Company
4 continues to file an Earnings Report. However, earnings are now measured over the
5 Company's fiscal year, which is the 12 months ending March 31. Therefore, the
6 Earnings Report is to be based on the Company's gas annual report that it files with the
7 PUC for the 12 months ending March 31.¹

8

9 **Q. Has the Company calculated the earned return on equity for FY 2018?**

10 A. Yes. The Company's tariff, RIPUC NG-GAS No. 101, Section 3, Schedule A, Sheet 10,
11 sub-part 5.0, requires earnings to be calculated each year based on financial results for the
12 12-month period ending March 31. In accordance with the tariff, the determination of
13 earnings subject to the ESM is based on a benchmark return on equity of 9.50 percent.
14 The earnings sharing formula requires that any annual earnings over a 9.50 percent return
15 on equity, up to and including 100 basis points (10.50 percent), will be shared with
16 customers, with 50 percent to be credited to customers and 50 percent to be retained by
17 the Company. Any earnings in excess of a 10.50 percent return on equity will also be
18 shared with customers, with 75 percent to be credited to customers and 25 percent to be
19 retained by the Company.

¹ The Company's gas annual report for the 12 months ending March 31, 2018 was filed with the PUC on July 30, 2018.

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1 As discussed later in my testimony, the Company calculated a return on equity for FY
2 2018 of 8.26 percent. As reflected on Schedule MAL-1, Page 1, Line 6, the FY 2018
3 return is below the 9.50 percent threshold, so it does not trigger an earnings sharing
4 calculation.

5

6 **Q. How did the Company calculate the return on equity for purposes of the ESM?**

7 A. In accordance with the Docket 3401 Settlement Agreement, the return on equity is
8 calculated by dividing the net income available for common equity by the common
9 equity applicable to rate base. *See* Docket 3401 Settlement Agreement at Section II.F.1.

10

11 **Q. Please explain the calculation of net income available for common equity for**
12 **purposes of the ESM.**

13 A. The Company calculated net income available for common equity based on operating
14 income for FY 2018, less applicable interest, and adjusted to reflect established PUC
15 ratemaking principles. The Company's calculation of net income available for common
16 equity is set forth in Schedule MAL-1, Page 2. As shown on Line 46 of that page, for FY
17 2018, the Company calculated net income available for common equity of \$28,033,514.

18

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1 **Q. Did the Company make any adjustments to operating revenues, expenses, and/or**
2 **interest charges?**

3 A. Yes. The Company has reflected the following adjustments to operating revenues and
4 expenses on various line items on Page 2 of Schedule MAL-1, as described below:

5 *Operating Revenue Adjustments:*

6 (1) Energy Efficiency Shareholder Incentives: The Company is allowed to keep
7 shareholder incentives related to achieving approved energy efficiency targets.
8 This resulted in a decrease to total firm gas operating revenues of \$1,682,537 on
9 Line 2.

10 (2) Unbilled Revenue Margins: The Company excluded unbilled revenue and the
11 associated cost of gas from the determination of earnings, which is consistent with
12 the methodology applied in Docket No. 3401. This resulted in an increase to
13 operating revenues of \$289,881, comprised of a \$278,825 increase to total firm
14 gas on Line 2, a \$265,495 increase to transportation on Line 3, and a \$254,440
15 decrease to other revenues on Line 4.

16 (3) Off-System Gas Sales: The Company makes certain adjustments to its revenues
17 to eliminate the incentive provided to the Company to generate off-system gas
18 revenue and excess pipeline capacity revenue. The Company accomplishes this
19 by eliminating, or reversing, all revenues associated with off-system sales, as well
20 as the credits the Company provides to customers associated with those sales.
21 These adjustments net to a \$481,325 decrease to other revenues on Line 4.

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- 1 (4) Miscellaneous Service Revenues: The Company removes miscellaneous service
2 revenues from its other revenues and shows them as non-operating
3 income/expense. The miscellaneous service revenues largely consist of credits to
4 customers for gas bill disputes. This is reflected as a \$5,941 increase to other
5 revenues on Line 4.
- 6 (5) Interest on Customer Arrears: The Company removes interest incurred on
7 customer arrearage accounts from Account 419 – interest and dividend income –
8 and instead adds such interest to other revenues on Line 4, resulting in an increase
9 to other revenues of \$293,695.
- 10 (6) Inventory Financing: The Company has removed stored gas inventory from rate
11 base and eliminated carrying costs on stored gas inventory from revenues. This
12 resulted in a decrease to operating revenues of \$1,015,206, representing the
13 amount of stored gas inventory carrying costs recorded as revenue during FY
14 2018, as shown on Line 8.

15

16 *Expense Adjustments:*

- 17 (1) Bad Debt Write-Offs: Bad debt expense is recorded in the Company's general
18 ledger based on the Company's best estimate during the year of amounts billed to
19 customers that will eventually become uncollectible. The Company recovers bad
20 debt expense from customers based on actual bad debt write-offs rather than
21 based on the Company's recorded estimates of bad debt expense. Accordingly,

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1 the Customer Accounts on Line 16 includes bad debt expense and was decreased
2 by \$1,196,151 to reflect actual bad debt net write-offs during the year.

- 3 (2) Advertising Expense: The Company has removed \$499,727 of sales and
4 advertising expenses, as shown on Line 17.
- 5 (3) Donations: Charitable donations are recorded “below-the-line” in Other
6 Income/Expenses. However, such costs are treated as “above-the-line” operating
7 expenses for ratemaking purposes. Consequently, the Company moved donations
8 from below-the-line Account 426.1 to Administrative and General expense,
9 resulting in a \$354,547 increase on Line 18.
- 10 (4) Variable Pay: The Company has reduced Administrative and General expense on
11 Line 18 by \$153,844 to remove a portion of variable pay consistent with the way
12 this cost is excluded for ratemaking.
- 13 (5) Savings Imputed in Base Rates: In accordance with Order No. 19563 in Docket
14 No. 3943, and with the Company’s gas tariff, the Company will continue to
15 include investors’ share of annual net merger savings, or \$2,450,000, in operating
16 expenses (*see* Docket No. Order No. 19563 at Section II.F.3; and RIPUC NG-
17 GAS No. 101, Section 3, Schedule A, Sheet 11, sub-part 5.0), as shown on
18 Line 22.

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1 **Q. What was the federal income tax rate used by the Company to calculate operating**
2 **income before interest expense?**

3 A. The Company calculated and applied an average federal income tax rate of 31.55 percent
4 for FY 2018, as shown on Schedule MAL-1, Page 3, Line 20. The 2017 Tax Cuts and
5 Jobs Act reduced the federal income tax rate from 35 percent to 21 percent, effective
6 January 1, 2018. The average federal income tax rate of 31.55 percent reflects 275 days
7 from April 1, 2017 through December 31, 2017 at a 35 percent tax rate, and 90 days from
8 January 1, 2018 through March 31, 2018 at a 21 percent tax rate.

9

10 **Q. How did the Company calculate long-term debt interest, short-term debt interest,**
11 **and preferred stock dividends?**

12 A. The PUC's Order No. 21011 in Docket No. 4323 specifies the capital structure to be used
13 in computing the cost of capital. The imputed capital structure is as follows:

Short-term Debt	0.76 percent
Long-term Debt	49.95 percent
Preferred Equity	0.15 percent
Common Equity	49.14 percent

18

19 Further, the Docket 3401 Settlement Agreement requires the Company to use the actual
20 cost of long-term debt and the most recent 12-month average cost of short-term debt in its
21 earnings calculation. Therefore, as shown on Schedule MAL-1, Page 4, the Company

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1 computed the cost of long-term debt by multiplying rate base applicable to long-term
2 debt by the Company's actual long-term debt rate for FY 2018, or 5.14 percent, as
3 calculated on Page 10. Likewise, the Company computed the cost of short-term debt by
4 multiplying rate base applicable to short-term debt by the 12-month average cost of short-
5 term debt, or 1.57 percent, as calculated on Page 11. This short-term debt rate assumes
6 average monthly National Grid money pool rates as applied to the Company's monthly
7 outstanding short-term debt balances for FY 2018. Finally, the Company computed the
8 cost of preferred stock by multiplying rate base applicable to preferred stock by the cost
9 rate of 4.50 percent established in Order No. 21011.

10

11 **Q. Did the Company make any other calculations to derive the total net income
12 available for common equity?**

13 A. Yes. In accordance with the Docket 3401 Settlement Agreement, the Company included
14 its allowance for funds used during construction in calculating operating income (*see*
15 Docket 3401 Settlement Agreement at Section II.F.1), as shown on Schedule MAL-1,
16 Page 2, Line 39.

17

18 **Q. How did the Company determine rate base in the Earnings Report?**

19 A. As required by the Docket 3401 Settlement Agreement, average rate base is to be based
20 on a five-quarter average. The FY 2018 rate base is set forth in Schedule MAL-1,
21 Page 5. *See* Docket 3401 Settlement Agreement at Section II.F.1. The Company

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1 excluded from rate base environmental response costs, asset retirement obligations, and
2 prepaid taxes. However, the Company included construction-work-in-progress in rate
3 base. Consistent with prior Earnings Reports, the Company computed the working
4 capital allowance pursuant to the method approved in Docket No. 3943, at Order No.
5 19563, as shown on Schedule MAL-1, Page 6. The deferred debits in rate base include
6 the book value of the legacy billing system, which was fully amortized in July 2017. The
7 Company also excluded stored gas inventory and customer deposits from the rate base
8 calculation. In addition, a hold harmless rate base credit is included as a reduction to rate
9 base.

10

11 **Q. Please explain the adjustment to rate base for Excess Deferred taxes.**

12 A. Effective December 31, 2017, the Company restated all of its deferred tax balances based
13 on the new 21 percent federal income tax rate because the Company will be paying
14 income taxes as the book/tax timing differences reverse at that 21 percent federal income
15 tax rate. However, because deferred taxes are an offset to rate base, reducing the deferred
16 tax balances based on the 21 percent federal income tax rate has the effect of artificially
17 increasing rate base. To counteract this artificial increase to rate base, a new line item
18 called Excess Deferred Income Taxes has been included in the rate base calculation
19 reflecting the value of the decrease to accumulated deferred income taxes as of
20 December 31, 2017. These excess deferred income taxes represent the net benefit as of
21 December 31, 2017 that will eventually be earned by the Company through reduced

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1 future income taxes, and ultimately passed back to customers through base distribution
2 rates, pursuant to the Amended Settlement Agreement approved in the 2017 Rate Case.
3

4 **Q. What is the “hold harmless” adjustment the Company has made to its rate base
5 calculation?**

6 A. As a result of National Grid’s purchase of the regulated gas assets in Rhode Island from
7 Southern Union in 2006, the Company realized a tax basis step-up for the assets acquired.
8 This step-up in tax basis resulted in a total tax basis for the assets acquired, which
9 equaled the net book basis for those same assets. Consequently, at the time of
10 acquisition, the Company’s book/tax timing difference, which gives rise to deferred tax
11 liabilities, was equal to zero. Therefore, the Company recorded no accumulated deferred
12 taxes on its balance sheet. Effective with Southern Union ownership in 2000, all deferred
13 tax provisions associated with New England Gas Company operations were recorded on
14 the books of the parent company and not on the balance sheet of New England Gas
15 Company. However, commencing with the National Grid acquisition of New England
16 Gas Company from Southern Union on August 24, 2006, the Company began recording
17 deferred tax liabilities, due primarily to the difference in book versus tax depreciation
18 rates. The Company will continue to record deferred tax provisions related to the assets
19 acquired, as well as on investments in Company assets post-acquisition. Therefore, the
20 Company’s FY 2018 general ledger reflects actual deferred tax provisions recorded by
21 the Company through March 31, 2018, as reflected on Schedule MAL-1, Page 5, Line 16.

THE NARRAGANSETT ELECTRIC COMPANY
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1 Consequently, the hold harmless adjustment, reflected on Schedule MAL-1, Page 5,
2 Line 18, is associated with National Grid's purchase of the regulated gas assets in Rhode
3 Island from Southern Union. This hold harmless adjustment provides customers an
4 economically equivalent rate base credit to offset the rate base increase that resulted from
5 National Grid's asset purchase, as agreed to and approved by the PUC in the 2007
6 Earnings Report in Docket No. 3859. Schedule MAL-1, Page 13 demonstrates the annual
7 values of the hold harmless rate base adjustment, as approved in Docket No. 3859.

8

9 **Q. How did the Company determine common equity applicable to rate base?**

10 A. In accordance with the capital structure approved in Docket No. 4323, the Company
11 multiplied the average rate base, as I discussed earlier, by 49.14 percent to determine
12 common equity applicable to rate base of \$339,362,219, as shown on Schedule MAL-1,
13 Page 4.

14

15 **Q. Please summarize the earnings sharing calculation on Schedule MAL-1.**

16 A. Schedule MAL-1, Page 1, calculates the earnings to be shared with customers based on
17 the sharing percentages required in the Company's gas tariff. Lines 1 through 3
18 summarize the calculation of average common equity. Line 5 is the net income available
19 for common equity and Line 6 is the return on common equity for FY 2018, or 8.26
20 percent. Because Line 6 is less than 9.50 percent, the earned return on common equity
21 for FY 2018 does not exceed the threshold above which the Company's regulated

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1 earnings are shared with customers. Therefore, there are no earnings available to be
2 shared with customers associated with FY 2018.

3

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

5 A. Yes.

**Schedule
MAL-1**

**THE NARRAGANSETT ELECTRIC COMPANY
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Schedule of Melissa A. Little

Schedule MAL-1 FY 2018 Earnings Sharing Report

The Narragansett Electric Company
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Gas Earnings Sharing Mechanism
Schedule MAL-1
August 31, 2018

National Grid - RI Gas
For the Twelve Months ended March 31, 2018

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The Narragansett Electric Company
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National Grid - RI Gas
Earnings Sharing Calculation
For the Twelve Months ended March 31, 2018

1	Average Rate Base	\$690,602,807
2	Equity Component of Rate Base	49.14%
3	Average Common Equity	<u>\$339,362,220</u>
4		
5	Net Income Available for Common Stock	\$28,033,514
6	Return on Common Equity	<u>8.26%</u>
7		
8	<u>Return on Equity > 9.5% and < 10.5%</u>	0.00%
9	Earnings to be Shared	<u>\$0</u>
10	Earnings to Customers - 50%	<u>\$0</u>
11		
12	Return on Equity > 10.5 %	0.00%
13	Earnings to be Shared	<u>\$0</u>
14	Earnings to Customers - 75%	<u>\$0</u>
15		
16	Total After tax Earnings Credited to Customers	<u>\$0</u>
17		
18	Total Earnings Credited to DAC	<u>\$0</u>

Notes:

- 1 From Page 5 of 13 line 23(f)
- 2 From Page 4 of 13 line 8
- 3 Line 1 times line 2
- 5 From Page 2 of 13 line 48
- 6 Line 5 divided by line 3
- 8 Smaller of 10.5% or Line 6 minus 9.5%
- 9 Line 3 times line 8
- 10 Line 9 times 50%
- 12 If Line 6 is greater than 10.5%, line 6 minus 10.5%, if not, 0%
- 13 Line 3 times line 12
- 14 Line 13 times 75%
- 16 Line 10 plus line 14
- 18 Line 16 divided by 65%

The Narragansett Electric Company
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 Schedule MAL-1
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National Grid - RI Gas
Income Statement
For the Twelve Months ended March 31, 2018

1	<u>Operating Revenues</u>	
2	Total Firm Gas	\$392,612,442
3	Transportation	\$43,816,464
4	Other Revenues	(\$5,383,336)
5	Total Operating Revenues	<u>\$431,045,570</u>
6		
7	<i>Adjustment to Operating Revenue:</i>	
8	Inventory Financing	(\$1,015,206)
9	Total Adjusted Operating Revenues	<u>\$430,030,364</u>
10		
11	<u>Operating Expenses</u>	
12	Production (Gas Costs)	\$178,410,366
13	Storage	\$5,375,214
14	Transmission	\$752,830
15	Distribution	\$33,259,485
16	Customer Accounts	\$41,526,614
17	Sales	\$0
18	Administrative and General	\$37,184,011
19	Total Operating Expenses	<u>\$296,508,521</u>
20		
21	<i>Adjustments to Operating Expense:</i>	
22	Savings Imputed in Base Rates	<u>\$2,450,000</u>
23	Total Adjusted Operating Expenses	<u>\$298,958,521</u>
24		
25	<u>Other Expenses</u>	
26	Depreciation and Amortization	\$34,809,479
27	Local and Other Taxes	\$25,447,955
28	Revenue Related Taxes (Gross Earnings Tax - GET)	\$12,206,319
29	Federal Income Taxes @ 31.55%	\$12,942,704
30	Total Other Expenses	<u>\$85,406,457</u>
31		
32	<u>Income Before Interest Expense</u>	<u>\$45,665,386</u>
33		
34	<u>Interest Expense</u>	
35	Short-Term Debt	\$82,446
36	Long-Term Debt	\$17,713,816
37	Other Interest Expense	\$0
38	AFUDC	(\$211,006)
39	Total Interest Expense	<u>\$17,585,256</u>
40		
41	<u>Net Income / (Loss)</u>	<u>\$28,080,130</u>
42		
43	Preferred Dividends	<u>\$46,616</u>
44		
45	<u>Net Income / (Loss) Applicable to Common Equity</u>	<u><u>\$28,033,514</u></u>

Notes:

- 4 From Page 7 of 13 line 11
- 22 Docket No. 3943 (4/4/2008) Attachment NG-MDL-4 Page 1 of 6 Line 7
- 27 From Page 6 of 13 sum of line 3 through line 5
- 29 From Page 3 of 13 line 20
- 35 From Page 4 of 13 line 25(b)
- 36 From Page 4 of 13 line 17(b)
- 37 From Page 8 of 13 line 3
- 43 From Page 4 of 13 line 34(b)

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National Grid - RI Gas
Federal Income Tax Calculation
For the Twelve Months ended March 31, 2018

1	Operating Revenues	\$430,030,364
2		
3	Less:	
4		
5	Operating Expenses	\$298,958,521
6	Depreciation and Amortization	\$34,809,479
7	Local and Other Taxes	\$25,447,955
8	Revenue Related Taxes (GET)	\$12,206,319
9	Interest - Short-Term Debt	\$82,446
10	Interest - Long-Term Debt	\$17,713,816
11	Other Interest	\$0
12	AFUDC	<u>(\$211,006)</u>
13		
14	Total Deductions	<u>\$389,007,530</u>
15		
16	Taxable Income	\$41,022,834
17		
18	Federal Income Tax Rate	<u>31.55%</u>
19		
20	Federal Income Tax Expense	<u><u>\$12,942,704</u></u>

Notes:

- 1 From Page 2 of 13 line 9
- 5 From Page 2 of 13 line 23
- 6 From Page 2 of 13 line 26
- 7 From Page 2 of 13 line 27
- 8 From Page 2 of 13 line 28
- 9 From Page 2 of 13 line 35
- 10 From Page 2 of 13 line 36
- 11 From Page 2 of 13 line 37
- 12 From Page 2 of 13 line 38
- 14 Sum of Line 5 through Line 12
- 16 Line 1 minus Line 14
- 18 Federal income Tax Rate: rate of 31.55% is blended rate of 9 months at 35.0% and 3 months at 21.0%
- 20 Line 16 times Line 18

The Narragansett Electric Company
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National Grid - RI Gas
Applicable Capital Structure, Interest Expense and Preferred Dividends
For the Twelve Months ended March 31, 2018

	%	\$
	(a)	(b)
1	Rate Base	<u><u>\$690,602,807</u></u>
2		
3	Capital Structure	
4		Docket 4323
5	Short-Term Debt	0.76%
6	Long-Term Debt	49.95%
7	Preferred Stock	0.15%
8	Common Equity	49.14%
9		<u><u>100.00%</u></u>
10		
11	Interest Expense	
12		
13	Long-Term Debt Portion	49.95%
14		\$344,956,102
15	Cost of Long-Term Debt March 2018	5.14%
16		
17	Proforma Long-Term Debt Interest	<u><u>\$17,713,816</u></u>
18		
19		
20		
21	Short-Term Debt Portion	0.76%
22		\$5,248,581
23	Cost of Short-Term Debt March 2018	1.57%
24		
25	Proforma Short-Term Debt Interest	<u><u>\$82,446</u></u>
26		
27	Preferred Dividends	
28		
29		
30	Preferred Stock Portion	0.15%
31		\$1,035,904
32	Cost of Preferred Stock	4.50%
33		
34	Proforma Preferred Stock	<u><u>\$46,616</u></u>

Notes:

- 1(b) From Page 5 of 13 line 23(f)
- 5(a)-8(a) Imputed capital structure per Docket No. 4323, Attachment 6, Schedule MDL-3-GAS-S, Page 56 of 65
- 5(b)-8(b) Line 1(b) times Line 5(a) through Line 8(a)
 - 13 Line 1(b) times Line 13(b)
 - 15 From Page 10 of 13 line 0(e)
 - 17 Line 13 (b) times line 15 (b)
 - 21 Line 1(b) times Line 21(b)
 - 23 From page 11 Line 14 (b)
 - 25 Line 21 (b) times line 23 (b)
 - 30 Line 1(b) times Line 30(b)
 - 32 Cost rate per Docket No. 4323, Attachment 6, Schedule MDL-3-GAS-S, Page 56 of 65
 - 34 Line 30 (b) times line 32 (b)

National Grid - RI Gas
 Rate Base
 For the Twelve Months ended March 31, 2018

	March 2017 (a)	June 2017 (b)	September 2017 (c)	December 2017 (d)	March 2018 (e)	Average March 2018 (f)
1 Gas Plant In Service	\$1,103,935,113	\$1,117,798,497	\$1,138,009,601	\$1,153,416,688	\$1,196,039,463	\$1,141,839,872
2 CWIP	\$49,279,243	\$43,392,799	\$59,451,898	\$76,022,283	\$52,548,788	\$56,139,002
3 Less: Accumulated Depreciation	\$388,553,415	\$376,951,456	\$379,872,889	\$381,913,835	\$388,566,984	\$383,171,716
4 Less: Contribution in Aid of Construction	\$38	\$38	\$38	\$38	\$38	\$38
5						
6 Net Plant	\$764,660,904	\$784,239,802	\$817,588,572	\$847,525,098	\$860,021,229	\$814,807,121
7						
8 Materials and Supplies	\$3,297,430	\$3,266,116	\$3,573,156	\$3,772,994	\$4,170,619	\$3,616,063
9 Prepaid Expenses, Excluding Taxes	\$694,983	\$150,553	\$295,526	\$864,353	\$1,811,623	\$763,408
10 Deferred Debits	\$235,230	\$58,807	\$0	\$0	\$0	\$58,807
11 Unamortized debt expense and Interest Rate Lock	\$1,951,594	\$1,815,588	\$1,756,007	\$1,696,427	\$1,636,846	\$1,771,292
12 Cash Working Capital	\$16,647,296	\$19,692,717	\$19,692,717	\$19,692,717	\$19,692,717	\$19,083,633
13						
14 Subtotal	\$22,826,533	\$24,983,782	\$25,317,406	\$26,026,491	\$27,311,805	\$25,293,204
15						
16 Accumulated Deferred FIT	\$121,935,071	\$122,701,308	\$126,011,268	\$87,565,048	\$68,933,560	\$105,429,251
17 Excess Deferred Tax	\$0	\$0	\$0	\$51,541,943	\$48,219,314	\$19,952,252
18 Hold Harmless	\$21,912,516	\$21,532,971	\$21,153,427	\$20,773,882	\$20,335,534	\$21,141,666
19 Customer Deposits	\$2,359,458	\$1,912,168	\$1,799,538	\$1,840,627	\$1,857,003	\$1,953,759
20 Injuries and Damages Reserve	\$1,069,604	\$1,042,338	\$918,778	\$1,065,107	\$1,007,121	\$1,020,590
21						
22 Subtotal	\$147,276,649	\$147,188,785	\$149,883,011	\$162,786,608	\$140,352,533	\$149,497,517
23						
24 Rate Base	\$640,210,788	\$662,034,799	\$693,022,967	\$710,764,981	\$746,980,501	\$690,602,807

Notes:

- 1(a)-4(e) From Company Financial Statements
- 1(f)-4(f) Average of Column (a) through Column (e)
- 6(a)-6(e) Line 1 plus line 2 minus line 3 minus line 4
- 6(f) Average of Column (a) through Column (e)
- 8(a)-11(e) From Company Financial Statements
- 8(f)-11(f) Average of Column (a) through Column (e)
- 10 Reflects the amortization of Y2K related costs per Docket No. 3401 and Advantage System amortization
- 12 From Page 6 of 13 Line 13
- 14 Sum of Line 8 through Line 12
- 16(a)-20(e) From Company Financial Statements
- 16(f)-20(f) Average of Column (a) through Column (e)
- 17 Excess Deferred Tax for change in tax rate from 35% to 21%
- 18 Hold Harmless rate base credit per Docket No. 3859
- 22 Sum of Line 16 through Line 20
- 24 Line 6 + Line14 - Line 22

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National Grid - RI Gas
Cash Working Capital Calculation
For the Twelve Months ended March 31, 2018

1	Gas Costs	\$178,410,366
2	Operating Expenses	\$118,098,155
3	Payroll Taxes	\$2,693,730
4	Property Taxes	\$22,679,342
5	State Taxes Other	\$74,883
6	Revenue Related Taxes (GET)	<u>\$12,206,319</u>
7	Total	\$334,162,795
8		
9	Daily Cash Requirement	\$915,515
10		
11	Net Lag Days	21.51
12		
13	Total Working Capital	<u><u>\$19,692,717</u></u>

Notes:

- 1 From Page 2 of 13 Line 14
- 2 From Page 2 of 13 Lines 15 - 20
- 3-5 From Company Financial Statements
- 6 From Page 2 of 13 Line 30
- 7 Sum of Lines 1 through Line 6
- 9 Line 7 divided by 365 days
- 11 Per Docket No. 4323, Schedule MDL-4-GAS,
(Page 2 of 20, Line 18 - Page 3 of 20, Line 4)
- 13 Line 9 times Line 11

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**National Grid - RI Gas
Detail Other Revenue/(Expense)
For the Twelve Months ended March 31, 2018**

1	Rent from Gas Property	\$243,233
2	Other Revenue	(\$680,814)
3	Recovery of Supervision & Administrative Costs	\$0
4	RDM Revenue	(\$5,219,076)
5	DAC Revenue	(\$20,375)
6	Misc Revenue	\$0
7	Interest on Customer Arrears	<u>\$293,695</u>
8		
9	Total Other Revenue	<u><u>(\$5,383,336)</u></u>

Notes:

- 1-7 From Company Financial Statements
9 Sum of line 1 through line 7

**The Narragansett Electric Company
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**National Grid - RI Gas
Detail Other Interest Expense
For the Twelve Months ended March 31, 2018**

1	Interest on Customer Deposits	\$0
2		
3	Total Other Interest Expense	<u><u>\$0</u></u>

Notes:

- 1 From Company Financial Statements
- 3 Line 1

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**National Grid - RI Gas
Detail Non-Operating Income / (Expense)
For the Twelve Months ended March 31, 2018**

1 Service Contract Revenue	\$187,918
2 Share Awards	(\$489,120)
3 Interest on Over / (Under) Collections, primarily Deferred Gas Costs	\$188,641
4 Deferred Compensation - Life Insurance	(\$64,575)
5 Federal Income Taxes on Non-Operating Income	\$0
6 NGPMP per Docket 4038	\$0
7 Lobbying / Legal and Political Expense	(\$192,977)
8 Penalties	(\$232,001)
9 Other	(\$260,862)
10 Total Non-Operating Income/(Expense)	<u><u>(\$862,976)</u></u>

Notes:

- 1-9 From Company Financial Statements
10 Sum of line 1 through line 9

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National Grid - RI Gas
Calculation of Average Long-Term Debt Interest Rate
For the Twelve Months ended March 31, 2018

<u>Series</u>	<u>(b)</u>	<u>(c)</u>	<u>(d)</u>	<u>(e)</u>	<u>(f)</u>	<u>(g)</u>
			Annual Interest	Annual Amortization of DD&E	Total Expense	Cost of Debt
<u>1 Senior Unsecured Notes</u>						
2 Senior Notes	4.534%	15-Mar-2020	250,000,000	11,335,000	664,600	11,999,600
3 Senior Notes	5.638%	15-Mar-2040	300,000,000	16,914,000	279,300	17,193,300
4 Senior Notes	4.170%	10-Dec-2042	250,000,000	10,425,000	75,000	10,500,000
<u>5 First Mortgage Bonds (*)</u>						
6 Providence Gas FMB S	6.820%	1-Apr-2018	14,464,000	986,445	7,000	993,445
7 Providence Gas FMB N	9.630%	30-May-2020	10,000,000	963,000	4,100	967,100
8 Providence Gas FMB O	8.460%	30-Sep-2022	12,500,000	1,057,500	4,300	1,061,800
9 FMB Series P	8.090%	30-Sep-2022	3,437,500	278,094	3,500	281,594
10 FMB Series R	7.500%	15-Dec-2025	6,531,250	489,844	4,100	493,944
Total			<u>846,932,750</u>	<u>42,448,882</u>	<u>1,041,900</u>	<u>43,490,782</u>
						5.14%

Notes:
 1-10 From Financial Statements

1(c)-10(c) *Average amounts represent Narragansett Electric Company consolidated amounts as the Gas division is not a legal entity.

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National Grid - RI Gas
Calculation of Average Short-Term Debt Interest Rate
For the Twelve Months ended March 31, 2018

	(a)	(b)	(c)
Month	Average Short-Term Debt Balance	Weighted Cost Rate	Short-Term Interest Expense
1 Apr-17	114,891,985	1.26%	\$ 117,424
2 May-17	84,351,003	1.29%	\$ 91,626
3 Jun-17	73,290,340	1.23%	\$ 70,868
4 Jul-17	107,742,545	1.50%	\$ 133,838
5 Aug-17	112,752,901	1.52%	\$ 142,161
6 Sep-17	125,993,286	1.39%	\$ 141,472
7 Oct-17	130,479,668	1.72%	\$ 185,412
8 Nov-17	141,180,215	1.71%	\$ 195,258
9 Dec-17	182,277,979	1.71%	\$ 258,471
10 Jan-18	188,410,097	1.73%	\$ 272,423
11 Feb-18	207,257,672	1.88%	\$ 287,680
12 Mar-18	266,688,204	1.91%	\$ 427,366
13			
14 Average	\$ 144,609,658	1.57%	\$ 2,324,000

Notes:

- 1(a)-12(a) Average amounts represent Narragansett Electric Company consolidated amounts as the Gas division is not a legal entity and participates in the National Grid money pool as a division of Narragansett Electric
 14(b) Average of Line 1 through Line 12

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National Grid - RI Gas
Merger Hold Harmless Rate Base Credit
For the Twelve Months ended March 31, 2018

Attachment NG-MDL-1
Docket No. _____
April 1, 2008
Page 30 of 33

National Grid - RI Gas
Rate Base Adjustments
Merger Hold Harmless Rate Base Credit

Line No.				
1	Balance as of September 30, 2007		\$34,139,677	1/
2				
3	Increase / (Decrease) 12 Months Ended 9/30/08		<u>(2,624,545)</u>	
4				
5	Balance as of:	9/30/08	\$31,515,132	1/
6				
7				
8		10/31/08	31,283,677	
9		11/30/08	31,052,222	
10		12/31/08	30,820,767	1/
11		1/31/09	30,647,907	
12		2/28/09	30,475,046	
13		3/31/09	30,302,186	1/
14		4/30/09	30,129,326	
15		5/31/09	29,956,466	
16		6/30/09	29,783,606	1/
17		7/31/09	29,610,746	
18		8/31/09	29,437,886	
19		9/30/09	<u>29,265,026</u>	1/
20				
21	Rate Year Merger Hold Harmless - Five Quarter Average		<u>\$30,337,343</u>	

1/ Hold Harmless Rate Base Credit Per DJE-2 (Revised) from Docket No. 3859.

@ 12/31/06 per DJE-2 Revised	35,764,025
Imputed 3/31/07	35,222,576
Imputed 6/30/07	34,681,127
Imputed 9/30/07	34,139,677
@ 12/31/07 per DJE-2 Revised	33,598,228
Imputed 3/31/08	32,903,863
Imputed 6/30/08	32,209,497
Imputed 9/30/08	31,515,132
@ 12/31/08 per DJE-2 Revised	30,820,767
Imputed 3/31/09	30,302,186
Imputed 6/30/09	29,783,606
Imputed 9/30/09	29,265,026
@ 12/31/09 per DJE-2 Revised	28,746,445

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Schedule DJE-2
 Revised

NATIONAL GRID
MERGER ADJUSTMENT TO ADIT
Projected Deferred Tax Schedule
 (\$000)

<u>As of</u> <u>31-Dec</u>	Southern	National			Southern	ADIT	
	<u>Union</u>	<u>Grid</u>	<u>Difference</u>	<u>ADITC</u>	<u>Merger</u>		<u>Adjustment</u>
2006	\$ 34,845	\$ 214	\$ 34,631	\$ 1,133	\$ 35,764		
2007	\$ 33,908	\$ 1,238	\$ 32,670	\$ 928	\$ 33,598		
2008	\$ 32,170	\$ 2,073	\$ 30,097	\$ 724	\$ 30,821		
2009	\$ 30,086	\$ 1,859	\$ 28,227	\$ 519	\$ 28,746		
2010	\$ 29,473	\$ 2,238	\$ 27,235	\$ 315	\$ 27,549		
2011	\$ 29,632	\$ 3,184	\$ 26,448	\$ 110	\$ 26,558		
2012	\$ 29,583	\$ 3,760	\$ 25,823		\$ 25,823		
2013	\$ 29,515	\$ 4,286	\$ 25,229		\$ 25,229		
2014	\$ 29,199	\$ 4,628	\$ 24,572		\$ 24,572		
2015	\$ 29,095	\$ 5,530	\$ 23,566		\$ 23,566		
2016	\$ 28,823	\$ 6,531	\$ 22,292		\$ 22,292		
2017	\$ 28,342	\$ 7,568	\$ 20,774		\$ 20,774		
2018	\$ 27,627	\$ 8,606	\$ 19,020		\$ 19,020		
2019	\$ 26,847	\$ 9,842	\$ 17,005		\$ 17,005		
2020	\$ 25,922	\$ 11,305	\$ 14,617		\$ 14,617		
2021	\$ 24,732	\$ 12,797	\$ 11,934		\$ 11,934		
2022	\$ 23,374	\$ 14,311	\$ 9,064		\$ 9,064		