The Narragansett Electric Company
d/b/a National Grid

2013 GAS COST RECOVERY

Testimony and Attachments of:

Elizabeth D. Arangio
Ann E. Leary

Book 1 of 2

September 3, 2013

Submitted to:

Rhode Island Public Utilities Commission
R.I.P.U.C. Docket No. 4436

Submitted by:

nationalgrid

Filing Letter/Motion

Thomas R. Teehan
Senior Counsel

September 3, 2013

VIA HAND DELIVERY & ELECTRONIC MAIL

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

RE: Docket 4436 - 2013 Gas Cost Recovery Filing

Dear Ms. Massaro:

Enclosed please find ten (10) copies of the National Grid's[1] Annual Gas Cost Recovery ("GCR") filing, which is being submitted pursuant to the Gas Cost Recovery Clause found in the Company's tariffs at RIPUC NG-Gas No. 101, Section 2, Schedule A. The proposed rates contained in this GCR filing reflect the customer class-specific factors necessary for the Company to collect sufficient revenues to recover projected gas costs for the period November 1, 2013 through October 31, 2014.

This filing consists of the pre-filed testimony and schedules of Elizabeth D. Arangio, Ann E. Leary, and Stephen A. McCauley. Ms. Arangio provides testimony relative to the Company's projected gas costs and in support of the Company's proposed GCR factors. She also discusses the Company's decision to enter into a Precedent Agreement with Algonquin Gas Transmission Company. Ms. Leary's testimony describes the development of the GCR charges proposed for effect November 1, 2013 and provides a bill impact analysis relative to those proposed rates. Mr. McCauley discusses the results of the Gas Procurement Incentive Plan for the period July 1, 2012 through June 30, 2013. He also discusses the results of the Natural Gas Portfolio Management Plan for the period April 1, 2012 through March 31, 2013 and the recommendation to continue with that plan after March 31, 2014.

As described in Ms. Leary's testimony, based on the GCR rates proposed for effect November 1, 2013 through October 31, 2014, an average residential heating customer using 846 therms per year will experience a total bill decrease related to the proposed GCR and Distribution Adjustment Charge ("DAC") rates of approximately $15, or an annual 1.3 percent decrease from the current existing rates. This decrease is comprised of an $8 decrease in the GCR-related costs and a $7 decrease in the DAC-related costs, which were filed today under separate cover.

This filing also contains a Motion for Protective Treatment in accordance with Rule 1.2(g) of the Commission's Rules of Practice and Procedure and R.I.G.L. § 38-2-2(4)(B). The Company seeks protection from public disclosure of certain pricing terms and costs related to its Precedent Agreement with Algonquin Gas Transmission Company and to certain existing contracts, which are set forth on

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

page 21 of the pre-filed testimony of Ms. Arangio. The Company also seeks protective treatment for gas-cost pricing information and forecasts, which are provided in Attachments EDA-1, EDA-2, and EDA-4 to the testimony of Ms. Arangio and in Attachments AEL-1 and AEL-3 to the testimony of Ms. Leary. Accordingly, the Company has provided the Commission with the un-redacted confidential materials for its review, and has included redacted copies of these materials in the filing.

Thank you for your attention to this filing. If you have any questions, please contact me at (401) 784-7667.

Very truly yours,

Thomas R. Teehan

Enclosures

cc: Leo Wold, Esq.
Steve Scialabba
Bruce Oliver

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

RHODE ISLAND PUBLIC UTILITIES COMMISSION

Annual Gas Cost Recovery Filing 2013
Docket No. 4436

NATIONAL GRID'S REQUEST
FOR PROTECTIVE TREATMENT OF CONFIDENTIAL INFORMATION

National Grid[1] hereby requests that the Rhode Island Public Utilities Commission ("Commission") provide confidential treatment and grant protection from public disclosure of certain confidential, competitively sensitive, and proprietary information submitted in this proceeding, as permitted by Commission Rule 1.2(g) and R.I.G.L. § 38-2-2(4)(B). National Grid also hereby requests that, pending entry of that finding, the Commission preliminarily grant National Grid's request for confidential treatment pursuant to Rule 1.2 (g)(2).

I. BACKGROUND

On September 3, 2013, National Grid filed with the Commission its Annual Gas Cost Recovery filing in this docket. This filing includes information relative to certain pricing terms and costs related to the Company's Precedent Agreement with Algonquin Gas Transmission Company, which are set forth on page 21 of the pre-filed testimony of Elizabeth D. Arangio. This filing also includes gas-cost pricing information and forecasts, which are provided in Attachments EDA-1, EDA-2, and EDA-4 to the testimony of Ms. Arangio and in Attachments AEL-1 and AEL-3 to the testimony of Ms. Leary.

II. LEGAL STANDARD

The Commission's Rule 1.2(g) provides that access to public records shall be granted in accordance with the Access to Public Records Act ("APRA"), R.I.G.L. §38-2-1, *et seq.* Under APRA, all documents and materials submitted in connection with the transaction of official business by an agency is deemed to be a "public record," unless the information contained in such documents and materials falls within one of the exceptions specifically identified in R.I.G.L. §38-2-2(4). Therefore, to the extent that information provided to the Commission falls within one of the designated exceptions to the public records law, the Commission has the authority under the terms of APRA to deem such information to be confidential and to protect that information from public disclosure.

In that regard, R.I.G.L. §38-2-2(4)(B) provides that the following types of records shall not be deemed public:

> Trade secrets and commercial or financial information obtained from a person, firm, or corporation which is of a privileged or confidential nature.

The Rhode Island Supreme Court has held that this confidential information exemption applies where disclosure of information would be likely either (1) to impair the Government's ability to obtain necessary information in the future; <u>or</u> (2) to cause substantial harm to the competitive position of the person from whom the information

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

was obtained. Providence Journal Company v. Convention Center Authority, 774 A.2d 40 (R.I.2001).

The first prong of the test is satisfied when information is voluntarily provided to the governmental agency and that information is of a kind that would customarily not be released to the public by the person from whom it was obtained. Providence Journal, 774 A.2d at 47.

II. BASIS FOR CONFIDENTIALITY

The pricing and information related to the Company's Precedent Agreement with Algonquin Gas Transmission Company and the costs of certain existing contracts, which are set forth on page 21 of the pre-filed testimony of Ms. Arangio and the pricing gas-cost pricing information and forecasts, which are provided in Attachments EDA-1, EDA-2, and EDA-4 to the testimony of Ms. Arangio and in Attachments AEL-1 and AEL-3 to the testimony of Ms. Leary is confidential and privileged information of the type that the Company would ordinarily not make public. The dissemination of this type of information could impact the Company in the future to obtain advantageous pricing.

III. CONCLUSION

Accordingly, the Company requests that the Commission grant protective treatment to those previously identified portions of its GCR filing.

WHEREFORE, the Company respectfully requests that the Commission grant its Motion for Protective Treatment as stated herein.

Respectfully submitted,

NATIONAL GRID

By its attorney,

____

Thomas R. Teehan, Esq. (RI Bar #4698)
National Grid
280 Melrose Street
Providence, RI 02907
(401) 784-7667

Dated: September 3, 2013

Testimony of
Elizabeth D. Arangio

DIRECT TESTIMONY

OF

ELIZABETH D. ARANGIO

September 3, 2013

Table of Contents

I. Introduction

Q. Please state your name and business address.

A. My name is Elizabeth Danehy Arangio. My business address is 40 Sylvan Road, Waltham, Massachusetts 02451.

Q. What is your position with National Grid?

A. I am the Director of Gas Supply Planning with responsibility for the resource portfolio of the New England local gas distribution companies ("LDC's") that operate as Boston Gas Company ("Boston Gas"), Colonial Gas Company ("Colonial") and The Narragansett Electric Company ("Narragansett") each d/b/a National Grid. In addition to the New England portfolios, I am also responsible for gas supply planning for the resource portfolios of The Brooklyn Union Gas Company, KeySpan Gas East Corporation and Niagara Mohawk Power Corporation, all in New York. For purposes of this testimony, references to "National Grid" or the "Company" relate solely to The Narragansett Electric Company.

Q. Please summarize your educational background and your professional experience.

A. I graduated from the University of Massachusetts in 1991 with a Bachelor of Business Administration. In 1995, I graduated from Bentley College with a Master of Business Administration. From 1991 to 1994, I worked as a Gas Accounting Analyst in the Marketing Operations Department at Algonquin Gas Transmission Company. In 1994, I joined Boston Gas Company as a Gas Supply Analyst. In 1997, I was promoted to Group Leader Transportation Services, with responsibility for managing all activities associated with the Customer-Choice program. In 1998, I was promoted to Director of Gas Acquisition and Transportation Services with responsibility for the administration of the Company's gas-resource portfolio and Customer-Choice program in Massachusetts and, as of 2000, the resource portfolio of EnergyNorth Natural Gas, Inc in New Hampshire. In February 2004, I assumed the additional responsibility of gas supply planning for the former KeySpan Corporation New York and Long Island resource portfolios. Following the acquisition of KeySpan Corporation by National Grid, plc, I was named to my current position with the added responsibility for the National Grid gas resource portfolios in upstate New York and in Rhode Island.

Q. Are you a member of any professional organizations?

A. I am a member of the Northeast Gas Association and the New England-Canada Business Council.

Q. Have you previously testified in regulatory proceedings?

A. Yes. I have recently testified before the Rhode Island Public Utilities Commission ("Commission") in support of National Grid's Annual Gas Cost Recovery ("GCR")

Docket No. 4346, the Natural Gas Portfolio Management Plan ("NGPMP") Docket No. 4038 and the Long Range Gas Supply plan. In the past, I have testified numerous times before the Massachusetts Department of Public Utilities, and the New Hampshire Public Utilities Commission. In addition, I have also presented information to the State of New York Department of Public Service Commission.

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

A. My testimony provides support for the estimated gas costs, assignments of pipeline capacity to marketers and other issues relating to the Company's proposed Gas Cost Recovery ("GCR") factors. In addition, my testimony provides a summary of the Company's decision to enter into a Precedent Agreement ("PA") with Algonquin Gas Transmission Company ("Algonquin") for interstate pipeline capacity delivered to Rhode Island as part of the Algonquin Incremental Market Expansion Project ("AIM Project").

Q. Are you sponsoring attachments to your testimony?

A. Yes. I am sponsoring the following attachments:

EDA-1	Summary of Projected Gas Costs - CONFIDENTIAL Information Redacted
EDA-2	Gas Cost Details - CONFIDENTIAL Information Redacted
EDA-3	NYMEX Strip Comparison

EDA-4	Assignment of Pipeline Capacity – CONFIDENTIAL Information Redacted
EDA-5	FT-2 Operational Parameters
EDA-6	FT-2 Storage Variable Costs

II. <u>Projected Gas Costs</u>

Q. What commodity prices were used to develop the proposed GCR factors?

A. In terms of commodity prices, the proposed GCR factors are based on the following: (1) the NYMEX strip as of the close of trading on July 15, 2013, and (2) the difference between the futures contract purchases under the Gas Procurement Incentive Plan ("GPIP") as of July 2013 and the July 15, 2013 NYMEX strip. The GCR factors also reflect storage and inventory costs as of July 31, 2013, as well as the projected cost of purchasing gas ratably through the remainder of the injection season, as provided for in the NGPMP. Attachment EDA-1 provides a summary of gas costs by major cost categories. Attachment EDA-2 shows the details of the calculations including the cost detail by supply source and the cost impact of financial hedges.

Q. Overall what are the NYMEX prices for gas supplies projected to be purchased in the GCR year and how do they compare to last year's prices?

A. Attachment EDA-3 is a graph that compares NYMEX pricing from August 1, 2012 utilized in the Company's filing last year to NYMEX pricing from July 15, 2013 used in this instant filing. The July 15, 2013 NYMEX strip is on average \$0.315, or 8.7%, higher each month compared to the August 1, 2012 NYMEX strip.

Q. <u>Please describe how gas costs are calculated.</u>

A. Consistent with prior filings, projected gas costs are calculated using the SENDOUT model to perform a dispatch optimization of the entire Rhode Island portfolio of gas supply, pipeline transportation, underground storage and peaking supplies. The model uses commodity price, pipeline contract and storage information to determine the dispatch of supplies to minimize the cost of supply over the year. The pricing of various pipeline services is based directly on the pipeline tariffs and the rates in effect as of August 1, 2013. For Company purchases at locations other than the Henry Hub, the model uses the expected basis differential to the Henry Hub prices to determine the expected difference or "basis."

Q. How did the Company categorize the projected gas cost components?

A. For the purpose of this filing Gas costs are disaggregated into two components: (1) the Supply Fixed Cost Component and (2) the Supply Variable Cost Component. Each is described below.

1. The Supply Fixed Cost Component includes all fixed costs related to the purchase, storage, or delivery of firm gas, including, but not limited to, pipeline and supplier fixed reservation costs, demand charges, and transportation fees.
2. The Supply Variable Cost Component includes all variable costs of firm gas, including, but not limited to, commodity costs, taxes on commodity and other gas supply expense incurred to transport supplies, transportation fees, storage commodity costs, taxes on storage commodity and other gas storage expense incurred to transport supplies, transportation fees, and inventory commodity costs.

A summary of gas costs included in the GCR and disaggregated into these cost components by month for the period November 2013 through October 2014 is shown on Attachment EDA-1.

Q. Please describe Attachment EDA-2, pages 1 through 17.

A. Attachment EDA-2 shows the supporting detail for gas costs included in the filing for the period November 2013 through October 2014. The first two pages show the optimized, forecasted sendout by supply source under normal weather from the SENDOUT model, as well as the detailed makeup of supply by pipeline source, storage contract and peaking facility. The next section, pages 3 through 6, shows the calculation of the per unit delivered cost for each pipeline path based on the July 15, 2013 NYMEX strip, including both pipeline variable charges and pipeline fuel losses. Pages 7 through 9 show the calculation of the delivered cost for each path (the price times the quantity). Pages 10 through 14 show the detailed calculation of total fixed costs.

The cost details for gas injected into and withdrawn from underground storage are shown on pages 15 and 16, while all costs associated with LNG injected into and withdrawn from storage are detailed on page 17. As the Company has yet to contract for LNG supplies for the upcoming 2013/14 year, pricing included in this filing reflects indicative pricing and terms based on the Company's current contracts with GDF Suez. Charges for the GDF Suez Gas NA contracts have been redacted in the public version of the filing in order to comply with confidentiality terms.

Q. How do you calculate the delivered cost for a particular gas supply?

A. On Attachment EDA-2, page 3, the second supply source shown is gas purchased on Tennessee Pipeline in Zone 0, located in South Texas. The calculation for November begins with the \$3.761 NYMEX price which is then adjusted for basis by, in this case, subtracting \$0.083. This reflects the forward basis strip for gas supply in South Texas delivered into Tennessee Pipeline. Next the price is adjusted to reflect the fuel retention percentage of the pipeline, 4.49%, to bring the price to \$3.851. That adjustment is made by dividing the price by one minus the loss factor, .9551, effectively adjusting the commodity price to incorporate the fact that only 95.51% of the supply delivered from the pipeline in South Texas will be delivered to Rhode Island. The pipeline usage fee of 35.32 cents is then added to reflect the cost of transportation on the pipeline, resulting in a delivered cost of $4.2041 per Dth.

III. Marketer Capacity Assignment

Q. What transportation paths will be available for assignment to marketers?

A. Attachment EDA-4, page 1 shows the paths and corresponding quantities available for assignment to marketers. In total, the Company has made available 32,758 Dth per day of capacity on six different pipeline paths. The volume allocated to the marketers remains the same as provided in the 2012/13 GCR filing.

Q. Please explain the surcharge/credit calculation for each assigned pipeline path?

A. The first step in calculating the adjustment charge for each path starts with calculating the system-average cost. The derivation of the weighted-average pipeline path cost of $0.9383 per Dth is shown at Attachment EDA-4, Page 10. This cost is equal to the sum of the 100% load factor fixed-cost unit value, the system-average unit variable cost and one (1) year of marketer reconciliation represented as a 100% load factor per unit cost. The 100% load factor fixed-cost unit value is $0.5573 per Dth. The system-average pipeline unit variable cost is $0.3802 per Dth. The sum of these components results in a weighted average pipeline cost of $0.9375 per Dth. The

100% load factor per unit cost of $0.0008 for marketer reconciliation is then added to get the total weighted-average pipeline cost of $0.9383 per Dth.

Q. How are the delivered costs for each path released to marketers developed in EDA-4?

A. The calculations for the delivered cost for each path are similar to those described for the system average. For illustration, the calculation for the first path (Tennessee Zone 1, shown on Attachment EDA-4, page 6) is comprised of a single contract originating in Zone 1 and terminating in Zone 6. Total fixed costs of $2,570,951 and total variable costs of $15,173,011 are shown in the far right column of page 6 of EDA-4. Commodity gas costs of $13,699,665 are subtracted from the total variable costs to arrive at the non-gas variable costs, which include pipeline variable charges and any basis differential associated with the path. The cost of the path equals the sum of the fixed unit cost of $0.7414 per Dth at 100% load factor plus the non-gas variable unit cost of $0.4249 per Dth, or $1.1663 per Dth. The unit cost of $1.1663 per Dth represents the direct costs incurred by the marketer, which are paid directly to the pipeline by the marketer. Since this cost is $0.2280 per Dth greater than the system-average, marketers electing this path would be credited $0.2280 per Dth per day on their monthly invoice from the Company. A summary of the individual path costs and associated credits or surcharges, for which approval is sought, is shown on Page 1 of EDA-4.

IV. Gas Supply Portfolio

Q. Have there been any changes to the Company's interstate pipeline capacity?

A. No.

Q. How did the Company supply the Dawn capacity for the 2013/14 year?

A. The Company has a total firm capacity entitlement of 1,025 MMBtus/day on the Union Gas pipeline system. The capacity path originates at Dawn, Ontario Canada and delivers into TransCanada at Parkway. In addition, the Company has firm capacity entitlements of 1,012 MMBtus/day on the TransCanada pipeline system. The capacity path originates at the interconnection with Union Gas at Parkway and delivers into Iroquois Gas Transmission ("Iroquois") at Waddington, New York. This supply is delivered to the Company's distribution system on Company's existing transportation contracts on Iroquois and Tennessee Gas Pipeline ("Tennessee"). The Company issued an RFP on August 12, 2013 for an Asset Management and Gas Supply Agreement ("AMA"), similar to the RFP issued last year, to be effective November 1, 2013 for a term of one year. The RFP requested a maximum daily quantity ("MDQ") of 1,025 MMBtu/day of baseload for the months of November 2013 through March 2014.

Emera Energy ("Emera") was awarded the bid to manage the Canadian assets and provide the Company with deliveries at the Canadian-US border at Waddington, New

York. The Company will then transport these volumes on Iroquois and Tennessee to the Company's citygates.

Q. What are the Company's plans to supply the East-to-West Capacity for 2013/14 year?

A. The Company issued an RFP on July 10, 2013 for an Asset Management and Gas Supply Agreement ("AMA"), similar to the RFP issued last year, to be effective November 1, 2013 for a term of one year. Utilizing the SENDOUT® Model, the Company determined the appropriate resource mix and established the baseload and swing volume requirements by month.

The RFP requested a maximum daily quantity ("MDQ") of 10,000 MMBtu/day, the contractual volume under the Algonquin agreement, with both a baseload and swing component for the months of November 2013 through May 2014 and for the month of October 2014.

Please see Table 1 below for a description of the monthly baseload and swing quantities requested.

TABLE 1

Month	Daily Base-Load Quantity (dt/Day)	Maximum Daily Call Quantity (dt/Day)	Maximum Monthly Quantity (dt)
November 2013		10,000	200,000
December 2013	3,000	7,000	177,000
January 2014	3,000	7,000	191,000
February 2014	3,000	7,000	182,000
March 2014		10,000	200,000
April 2014		10,000	200,000
May 2014		3,000	39,000
June 2014		0	0
July 2014		0	0
August 2014		0	0
September 2014		0	0
October 2014		10,000	200,000

Subject to satisfying the gas supply requirements associated with the AMA, the Seller has the right to utilize and optimize the transportation agreement for its own account.

In exchange for such right, the Seller pays the Company an optimization fee. EDF Trading North America, LLC ("EDF") was awarded the bid to manage the assets and provide the asset management services for the 2013/14 season.

Q. Why did the Company issue a request for proposal ("RFP") for supply for the Alonguin HubLine path for 2013/14 peak season?

A. The Company issued an RFP for supply for the Algonquin HubLine path for the 2013/14 peak season for two reasons. First, sources of supply traditionally available to the Company at the interconnect between Algonquin and the Maritimes and Northeast Pipeline ("Maritimes") located in Beverly, Massachusetts have declined significantly (i.e. Sable Island, Deep Panuke and Canadian LNG Imports). For example, during the month of January 2013 the Company experienced an extended period of cold weather. The Company approached the market to procure supply at Beverly and found no sellers willing or able to sell gas at that point. Second, the Company needed to secure additional supplies to replace volumes historically met by LNG, due to the uncertainty surrounding the availability of LNG, as discussed further below. Therefore, given the need for supply at this point in order to meet customer requirements, the Company issued an RFP on July 10, 2013 to purchase gas for a term of three months (December, January and February). Utilizing the SENDOUT® Model, the Company determined the appropriate resource mix and established the required volume for the term in the event of design weather. The RFP requested a maximum daily quantity ("MDQ") of 8,000 MMBtu/day, the maximum daily quantity ("MDQ") of the Algonquin transportation agreement, with a maximum seasonal quantity 160,000 MMBtus. Hess Corporation. ("Hess") was awarded the bid to provide the Company with supply at Beverly. The supply agreement also provides for an alternate delivery point at the Company's city gates.

Q. Why did the Company issue a request for proposal ("RFP") for supply for the Dracut Tennessee path for 2013/14 peak season?

A. The Company issued an RFP for supply for the Dracut Tennessee path for the 2013/14 peak season for two reasons. First, similar to supplies at Beverly discussed above, sources of supply traditionally available to the Company at the interconnect between Tennessee and the Maritimes located in Dracut, Massachusetts have decline significantly. In January 2013, as was the case at Beverly, supplies were not available for purchase at Dracut. Second, the Company needed to secure additional supplies to replace volumes historically met by LNG, due to the uncertainty surrounding the availability of LNG. Therefore, given the need for supply at this point in order to meet customer requirements, the Company issued another RFP on July 10, 2013 to purchase supply at Dracut for a term of four months (December, January, February and March). Utilizing the SENDOUT® Model, the Company determined the appropriate resource mix and established the required volume for the term in the event of design weather. The RFP requested a maximum daily quantity

("MDQ") of 15,000 MMBtu/day, the MDQ of the Algonquin transportation agreement, with a maximum seasonal quantity of 975,000 MMBtus. The Company accepted and awarded two bids for the total supply package. The winning bidders were Hess Corporation ("Hess") and Repsol Energy North America ("Repsol") in portions of 675,000 Dths and 300,000 Dths respectively. The supply agreement with Hess also provides for an alternate delivery point at the Company's city gates.

Q. Has the Company entered into an arrangement for firm liquid service for the 2013 off-peak refill season?

A. Yes, to date, the Company has entered into two arrangements for liquid service for the summer of 2013.

On March 1, 2013, the Company received an RFP from GDF Suez Gas NA LLC ("GDF Suez"). The purpose of the RFP was to solicit proposals from market participants interested in purchasing LNG in liquid form at its truck loading station at Everett, MA, for all or a portion of 4 Bcf to be delivered during the 2013 off peak refill season. The delivery was offered on a firm basis and there was no minimum volume requirement to be eligible to purchase LNG. The RFP requested that bids be submitted by 5:00 pm on March 15, 2013.

On March 15, 2013, the Company submitted bids for 4 Bcf on behalf of National Grid's New England companies: Boston Gas Company, Colonial Gas Company, and The Narragansett Electric Company and was ultimately awarded the full quantity for delivery during the months of April 2013 through and including November 2013. GDF Suez allocated the 4 Bcf among the three companies to avoid any credit triggers, thereby, avoiding the need for any one of the companies to post collateral. The purchase price is identical in each of the agreements with GDF Suez. Following the execution of the agreements with GDF Suez, the three companies executed affiliate agreements which allow each LDC to buy and sell liquid amongst the three entities at the same cost as in the underlying GDF Suez agreement.

The 4 BCF from GDF Suez was allocated between the MA and RI companies based upon design season operating requirements for the upcoming winter season of 2013/14. The allocation provides for 89 percent of LNG volumes to MA and 11 percent of LNG volumes to RI.

Because the Company's RI refill requirement (475,000 MMBtu) exceeded the amount of liquid allocated to RI from GDF Suez, and because to date, GDF Suez will not guaranty the delivery of any additional volumes during the 2013 off-peak refill season, the Company implemented a contingency plan for securing additional supplies.

On April 30, 2013, the Company submitted a bid to Transcontinental Gas Pipe Line Company, LLC ("Transco"), for LNG volumes available at its Carlstadt, New Jersey facility. The Company was awarded up to 300,000 MMBtus from the facility effective May 1, 2013. Deliveries commenced the week of May 20, 2013 with primary delivery to the National Grid Providence LNG facility on behalf of MA and

RI using the same allocation method as the GDF Suez volumes. Although service is provided under Transco's interruptible tariff, Transco, after considering its firm obligations, has determined that the 300,000 dt will be available to National Grid prior to November 1, 2013.

The Company is also in discussions with other companies in the Northeast that have liquefaction capabilities to meet the remaining refill requirements. Traditionally, the Company has entered into a peak season LNG refill agreement with an annual contract quantity of 125,000 MMBtus. At this time, GDF Suez will not guaranty the delivery of any additional volumes during the 2013/14 peak season.

As it has in previous years, the Company issued an RFP on March 20, 2013 for dedicated trucking arrangements in order to guarantee the availability of both trailers and drivers to truck the LNG from the GDF Suez terminal to the Company's facilities during the off peak season. In addition, the Company issued an additional RFP on May 8, 2013 for a dedicated trucking arrangement in order to guarantee availability of both trailers and drivers to truck the LNG from Transco, for LNG volumes available at its Carlstadt, New Jersey facility to the National Grid LNG facilities located in Rhode Island.

Q. Describe the changes to the domestic supply and global LNG markets affecting the Company.

A. In order to serve our customers' firm gas supply requirements the Company relies on a combination of interstate pipeline capacity and imported LNG.

There are just two interstate pipelines Algonquin Gas Transmission ("Algonquin") and Tennessee Gas Pipeline ("Tennessee") that deliver into the Company's gas distribution system and both of these interstate pipelines are fully subscribed. Much of the pipeline capacity on Algonquin and Tennessee provides access to sources of supply from the south and west (on-shore and off-shore Gulf coast, mid-continent, Marcellus shale, western Canada, etc.). However, 15 percent of the Company's peak day pipeline capacity provides access only to sources of supply from the north and east (Sable Island, Deep Panuke, imported LNG, etc.).

Historically, National Grid has relied on LNG to satisfy 38 percent of its peak day requirements. The Company has relied on GDF Suez as the sole supplier of LNG in liquid form. Typically, LNG is purchased at the outlet of GDF Suez's facility in Everett, MA and trucking services are contracted for to transport the liquid to the Company's storage facilities where it is vaporized and injected into the gas distribution systems during periods of peak demand. The Company also relies on LNG imports to feed some of its pipeline capacity with receipt points in the Northeast, Beverly and Dracut as discussed above, as well as direct deliveries of vaporized LNG into Algonquin from the Neptune and Excelerate offshore facilities.

At this time, US LNG imports are at their lowest levels in thirteen years. Higher global prices, ranging from $10–20/Dth, are attracting cargos away from the US. The table below provides a summary of the March 2013 price of gas at various global market locations.

Location	Price/dt	Spread (as compared to Henry Hub)
Henry Hub (U.S.)	$3.54	-
UK	$9.94	$6.41
Spain	$15.25	$11.72
Rio De Janeiro	$16.84	$13.31
China	$19.35	$15.82
Japan	$19.75	$16.22

As such, it is becoming more difficult and more expensive to acquire LNG to (1) fill our storage tanks and (2) fill our short-haul transportation capacity with receipt points at Beverly and Dracut.

Meanwhile, while LNG imports have been declining, domestic production levels continue to increase. Horizontal drilling and well completion techniques continue to improve, enabling increased economic extraction of natural gas from shale formations. Pipeline infrastructure continues to be built in order to move the gas closer to the market. However, the Company will not fully realize the benefits of these inexpensive supplies without sufficient pipeline capacity to transport the gas to the distribution system.

Q. What is the Company doing to address these long-term portfolio risks?

A. To address the changing gas supply landscape and to ensure the Companies' ability to continue to reliably serve its existing customer requirements as well as anticipated growth, National Grid has elected to participate in the Algonquin Incremental Market Expansion ("AIM Project").

In September 2012, Algonquin commenced an Open Season for its AIM Project, designed to expand Algonquin's existing pipeline by approximately 342,000 dth/day, providing firm transportation from Algonquin's interconnection with Millennium Pipeline Company, LLC ("Millennium") at Ramapo, New Jersey to markets located in New England. Access to Ramapo provides customers on Algonquin the ability to access to abundant inexpensive domestic supplies of natural gas. The AIM Project also provides access to supplies available at the interconnection with Iroquois Gas Transmission ("Iroquois") at Brookfield, Connecticut.

The Company participated in the Open Season and has entered into a Precedent Agreement with Algonquin for 18,000 MMBtu/day for an initial term of fifteen years with service commencing on November 1, 2016. The Agreement provides that Algonquin shall proceed with the due diligence to obtain all approvals necessary to construct the Project. In addition, the Company shall proceed with due diligence to obtain internal approval and receipt of no negative indication from the Company's Rhode Island regulators by December 1, 2013. Along with the Precedent Agreement, the Company has executed a Negotiated Rate Agreement. This agreement sets forth an estimated reservation rate of $[redacted] per dth based on expected cost and billing determinants. This rate was subject to adjustment on or before August 1, 2013 and will be subject to additional adjustments on or before December 31, 2013 if the expected cost and/or billing determinants change as a result of one or more parties withdrawing from the Project or Pipeline's receipt of additional turn-back capacity. The Company was, in fact, notified in August by Algonquin that the billing determinants for the Project did change and commensurately the cost and rate as well. The adjusted rate reservation rate is now $[redacted]per dth.

As stated above, the Company has contracted for 18,000 dth/day of AIM capacity, which is the sum of the Company's existing HubLine and East-to-West capacity. As of the in-service date of the AIM project, these existing contracts will terminate. Thus, the Company is not acquiring incremental capacity but rather is, in effect, replacing an illiquid receipt point at Beverly with a more liquid receipt point at Ramapo. The cost of Narragansett's AIM capacity will be partially mitigated, in the amount of $[redacted]per year, by termination of the existing contracts.

The Company is also considering participation in the Tennessee Northeast Expansion Project to alleviate supply concerns at the Dracut. Tennessee is proposing an upgrade to its existing 300 line combined with a greenfield pipeline build with a capacity of up to 1.2 Bcf/day originating at Wright, NY and delivering to Dracut, and then on to existing citygates.

In summary, as the market continues to evolve, the Company is constantly looking to maintain a reliable, least-cost portfolio, and will continue to explore all opportunities to do so.

Q. Are there any other contract changes affecting the supply portfolio and gas costs?

A. No.

Q. Does this conclude your testimony?

A. Yes.

Attachments of
Elizabeth D. Arangio

<u>Attachments of Elizabeth D. Arangio</u>

Attachment EDA-1	Summary of Projected Gas Costs - CONFIDENTIAL Information Redacted
Attachment EDA-2	Gas Cost Details - CONFIDENTIAL Information Redacted
Attachment EDA-3	NYMEX Strip Comparison
Attachment EDA-4	Assignment of Pipeline Capacity – CONFIDENTIAL Information Redacted
Attachment EDA-5	FT-2 Operational Parameters
Attachment EDA-6	FT-2 Storage Variable Costs

Attachment EDA-1
REDACTED

Attachment EDA-1

Summary of Projected Gas Costs - CONFIDENTIAL Information Redacted

REDACTED

SUMMARY OF ESTIMATED GAS COSTS FOR 2013-2014 GCR Estimate

07/15/2013 NYMEX

Variable Costs	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	GCR TOTAL
Total Pipeline Supply Costs	$8,142,036	[redacted]				$8,351,641	$5,113,785	$2,805,427	$2,405,961	$2,507,724	$2,494,380	$4,829,902	$103,784,247
Total Storage Product Costs	$0	$331,837	$4,405,354	$3,880,653	$633,428	$0	$0	$0	$0	$0	$0	$0	$9,251,272
Total Storage Delivery Costs	$0	$13,373	$191,095	$169,123	$26,405	$0	$0	$0	$0	$0	$0	$0	$399,996
Total LNG Costs	$107,113	$111,101	$1,228,951	$100,276	$111,101	$107,113	$111,101	$104,824	$108,727	$108,727	$104,824	$107,531	$2,411,391
Total All Variable Gas Costs	$8,249,149	[redacted]				$8,458,754	$5,224,887	$2,910,252	$2,514,688	$2,616,451	$2,599,204	$4,937,433	$115,846,905
Fixed Costs													
Total Pipeline Demands	[redacted]												
Total Storage Facilities													
Total Storage Delivery	$435,601	$435,601	$435,601	$435,601	$435,601	$435,601	$435,601	$435,601	$435,601	$435,601	$435,601	$435,601	$5,227,215
Total Supplier Demands	[redacted]												
Total All Fixed Costs	$3,750,236	$4,105,893	$4,104,542	$4,091,321	$4,104,542	$4,377,456	$4,378,113	$4,377,456	$4,378,113	$4,378,113	$4,377,456	$4,378,113	$50,801,357
Capacity Release Credits	$493,562	$493,562	$493,562	$493,562	$493,562	$493,562	$493,562	$493,562	$493,562	$493,562	$493,562	$493,562	$5,922,744
NGPMP Credit	$575,000	$575,000	$575,000	$575,000	$575,000	$575,000	$575,000	$575,000	$575,000	$575,000	$575,000	$575,000	$6,900,000
Net Fixed Costs	$2,681,674	$3,037,331	$3,035,980	$3,022,759	$3,035,980	$3,308,894	$3,309,551	$3,308,894	$3,309,551	$3,309,551	$3,308,894	$3,309,551	$37,978,613
Total All Gas Costs	$10,930,824	[redacted]				$11,767,649	$8,534,438	$6,219,146	$5,824,239	$5,926,003	$5,908,099	$8,246,984	$153,825,518

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4436
Attachment EDA-1
Redacted
Page 1 of 1

Attachment EDA-2
Gas Cost Details - CONFIDENTIAL Information Redacted

REDACTED

National Grid
2013 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5
25-Jul-2013

Natural Gas Supply VS. Requirements
Units: DTH

	NOV 2013	DEC 2013	JAN 2014	FEB 2014	MAR 2014	APR 2014	MAY 2014	JUN 2014	JUL 2014	AUG 2014	SEP 2014	OCT 2014	Total/Average
Forecast Demand													
RI Sales GCR	1,929,200	3,808,800	5,034,400	3,869,300	3,828,900	2,176,200	1,342,300	749,500	620,300	627,400	652,800	1,231,000	25,870,100
Total Demand	1,929,200	3,808,800	5,034,400	3,869,300	3,828,900	2,176,200	1,342,300	749,500	620,300	627,400	652,800	1,231,000	25,870,100
Storage Injections													
TENN 501	0	0	0	0	0	119,300	123,300	119,300	123,300	0	0	89,800	575,000
GSS 300170	0	0	0	0	0	0	0	0	0	0	0	0	0
GSS 300168	0	0	0	0	0	21,000	21,700	0	0	0	0	0	42,700
GSS 300171	0	0	0	0	0	15,700	16,200	15,700	16,200	16,200	15,700	16,200	111,900
GSSTE 600045	0	0	0	0	0	187,800	0	0	0	137,200	0	0	325,000
TETCO 400515	0	0	0	0	0	8,700	0	0	0	5,500	0	0	14,200
TETCO 400221	0	0	0	0	0	181,600	187,700	0	0	187,700	37,000	0	594,000
TETCO 400185	0	0	0	0	0	0	0	0	0	0	0	0	0
GSS 300169	0	0	0	0	0	29,900	29,100	0	0	29,100	19,900	0	108,000
COL FSS 9630	0	0	0	0	0	25,700	40,800	40,800	36,300	0	26,500	14,300	184,400
TENN 62918	0	0	0	0	0	41,400	42,800	41,400	42,800	0	0	31,200	199,600
Total Underground Storage	0	0	0	0	0	631,100	461,600	217,200	218,600	375,700	99,100	151,500	2,154,800
LNG PROV	0	0	0	0	0	0	150,000	0	0	0	74,900	85,900	310,800
LNG VALLEY	0	0	0	0	0	0	5,000	0	0	0	15,000	29,900	49,900
LNG EXETER	0	0	0	0	0	0	0	0	0	0	60,100	4,700	64,800
Total LNG Injection	0	0	0	0	0	0	155,000	0	0	0	150,000	120,500	425,500
Total Injections	0	0	0	0	0	631,100	616,600	217,200	218,600	375,700	249,100	272,000	2,580,300

Delivered Firm Sales Supply

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	GCR Total
Sources of Supply													
TENN CONX	348,000	359,600	359,600	324,800	359,600	348,000	332,700	285,700	353,800	189,100	195,200	359,600	3,815,700
TENN ZONE 0	0	139,933	179,793	126,592	77,481	17,788	0	0	0	0	0	0	541,587
TENN ZONE 1	0	291,167	374,107	263,408	161,219	37,012	0	0	0	0	0	0	1,126,913
TENN NIAGARA	15,400	33,100	33,100	29,900	33,100	32,000	2,100	0	0	0	0	17,900	196,600
TENN DRACUT	0	95,000	134,000	44,000	27,000	141,500	132,600	89,200	0	0	0	25,200	688,500
COL MAUMEE	14,900	871,200	872,200	787,600	872,300	36,600	0	40,800	148,500	108,600	0	14,300	3,767,000
COL BROADRUN	0	300,600	300,900	271,800	300,900	29,100	0	0	0	3,600	0	0	1,206,900
TRANSCO Z2	0	4,013	4,013	3,621	0	0	0	0	0	0	0	0	11,647
TRANSCO Z3	0	85	85	77	0	0	0	0	0	0	0	0	248
TETCO ELA	0	301,952	296,962	268,206	0	161,557	88,843	5,986	6,177	143,216	27,682	6,177	1,306,759
TETCO ETX	0	90,457	88,960	80,348	0	48,398	26,615	1,793	1,850	42,904	8,293	1,850	391,469
TETCO STX	0	134,823	132,593	119,756	0	72,136	39,669	2,673	2,758	63,947	12,360	2,758	583,474
TETCO WLA	0	207,516	204,083	184,324	0	111,030	61,057	4,114	4,245	98,425	19,025	4,245	898,064
TETCO to B&W - SCT	0	33,575	33,020	29,823	0	17,964	9,879	666	687	15,925	3,078	687	145,302
TETCO - NF - TRANSCO	0	14,796	14,551	13,142	0	7,917	4,353	293	303	7,018	1,356	303	64,033
TETCO - DTI - TETCO	0	8,782	8,636	7,800	0	4,699	2,584	174	180	4,165	805	180	38,004
M3 DELIVERED	1,502,100	704,400	508,400	300,100	1,759,200	1,613,800	1,035,100	516,500	301,000	306,700	438,800	930,000	9,916,100
HUBL NE	0	92,000	92,100	83,200	0	0	0	0	0	0	0	0	267,300
COL EAGLE	0	0	80,600	5,100	24,600	69,400	45,500	0	0	0	0	0	225,200
COL DOWNINGTOWN	0	0	70,900	0	19,300	39,600	3,500	0	0	0	26,500	0	159,800
ANE II - DAWN-TENN	30,000	31,000	31,000	28,000	31,000	0	0	0	0	0	0	0	151,000
DISTRIGAS NSB Winter	0	0	0	0	0	0	0	0	0	0	0	0	0
DISTRIGAS NSB Summer	0	0	0	0	0	0	155,000	0	0	0	150,000	120,100	425,100
NEWPORT LNG	0	0	0	0	0	0	0	0	0	0	0	0	0
SPOT LNG	0	0	0	0	0	0	0	0	0	0	0	0	0

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4436
Attachment EDA-2
Redacted
Page 1 of 17

National Grid
2013 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5

25-Jul-2013

Natural Gas Supply VS. Requirements

Units: DTH

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
Non LNG Liquid take	1,910,400	3,713,998	3,819,603	2,971,598	3,665,700	2,788,500	1,784,500	947,900	819,500	983,600	733,100	1,363,200	25,501,600
LNG Liquid take	0	0	0	0	0	0	155,000	0	0	0	150,000	120,100	425,100
Total take	1,910,400	3,713,998	3,819,603	2,971,598	3,665,700	2,788,500	1,939,500	947,900	819,500	983,600	883,100	1,483,300	25,926,700
Storage Withdrawals													
TENN 501	0	27,400	278,500	167,800	93,600	0	0	0	0	0	0	0	567,300
GSS 300170	0	0	0	0	0	0	0	0	0	0	0	0	0
GSS 300168	0	9,800	26,600	4,200	1,500	0	0	0	0	0	0	0	42,100
GSS 300171	0	0	68,300	41,200	0	0	0	0	0	0	0	0	109,500
GSSTE 600045	0	0	166,400	150,300	0	0	0	0	0	0	0	0	316,700
TETCO 400515	0	0	13,300	0	0	0	0	0	0	0	0	0	13,300
TETCO 400221	0	0	285,000	285,000	0	0	0	0	0	0	0	0	570,000
TETCO 400185	0	0	0	0	0	0	0	0	0	0	0	0	0
GSS 300169	0	0	53,500	50,300	0	0	0	0	0	0	0	0	103,800
COL FSS 9630	0	34,800	76,600	52,100	15,400	0	0	0	0	0	0	0	178,900
TENN 62918	0	3,300	30,900	129,200	33,300	0	0	0	0	0	0	0	196,700
LNG PROV	11,700	12,100	180,500	10,900	12,100	11,700	12,100	11,700	12,100	12,100	11,700	12,100	310,800
LNG VALLEY	3,100	3,200	15,400	2,900	3,200	3,100	3,200	3,100	3,200	3,200	3,100	3,200	49,900
LNG EXETER	4,000	4,200	19,800	3,800	4,200	4,000	4,200	4,000	4,200	4,200	4,000	4,200	64,800
Total Withdrawal Delivered	18,800	94,800	1,214,800	897,700	163,300	18,800	19,500	18,800	19,500	19,500	18,800	19,500	2,523,800
Total Storage withdrawal	0	75,300	999,100	880,100	143,800	0	0	0	0	0	0	0	2,098,300
Total Peaking withdrawal	18,800	19,500	215,700	17,600	19,500	18,800	19,500	18,800	19,500	19,500	18,800	19,500	425,500
Total Supply	**1,929,200**	**3,808,798**	**5,034,403**	**3,869,298**	**3,829,000**	**2,807,300**	**1,804,000**	**966,700**	**839,000**	**1,003,100**	**751,900**	**1,382,700**	**28,025,400**

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
Storage withdrawals at Storage Facilty													
TENN 501	0	27,700	282,400	170,100	94,900	0	0	0	0	0	0	0	575,100
GSS 300170	0	0	0	0	0	0	0	0	0	0	0	0	0
GSS 300168	0	9,900	27,000	4,300	1,500	0	0	0	0	0	0	0	42,700
GSS 300171	0	0	69,900	42,100	0	0	0	0	0	0	0	0	112,000
GSSTE 600045	0	0	170,700	154,200	0	0	0	0	0	0	0	0	324,900
TETCO 400515	0	0	14,200	0	0	0	0	0	0	0	0	0	14,200
TETCO 400221	0	0	297,000	297,000	0	0	0	0	0	0	0	0	594,000
TETCO 400185	0	0	0	0	0	0	0	0	0	0	0	0	0
GSS 300169	0	0	55,600	52,300	0	0	0	0	0	0	0	0	107,900
COL FSS 9630	0	35,900	78,900	53,700	15,900	0	0	0	0	0	0	0	184,400
TENN 62918	0	3,400	31,300	131,000	33,800	0	0	0	0	0	0	0	199,500
	0	76,900	1,027,000	904,700	146,100	0	0	0	0	0	0	0	2,154,700

REDACTED

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4436
Attachment EDA-2
Redacted
Page 2 of 17

National Grid
2013 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5

25-Jul-2013

Natural Gas Supply VS. Requirements

Units: DTH

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
07/15/2013 NYMEX	**$3.761**	**$3.925**	**$4.000**	**$4.002**	**$3.966**	**$3.895**	**$3.912**	**$3.945**	**$3.980**	**$3.999**	**$4.002**	**$4.022**	
TENNESSEE CONNEXION													
Basis	($0.083)	($0.085)	($0.082)	($0.092)	($0.085)	($0.100)	($0.102)	($0.090)	($0.078)	($0.075)	($0.088)	($0.110)	
usage to Zn 6	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	
fuel to Zn 6	4.49%	4.49%	4.49%	4.49%	4.49%	4.49%	4.49%	4.49%	4.49%	4.49%	4.49%	4.49%	
Total Delivered	$3.8527	$4.0223	$4.1040	$4.0956	$4.0652	$3.9752	$3.9909	$4.0380	$4.0872	$4.1103	$4.0998	$4.0977	
TENNESSEE ZN 0													
Basis	($0.083)	($0.085)	($0.082)	($0.092)	($0.085)	($0.100)	($0.102)	($0.090)	($0.078)	($0.075)	($0.088)	($0.110)	
usage	$0.3532	$0.3532	$0.3532	$0 3532	$0 3532	$0.3532	$0.3532	$0.3532	$0.3532	$0.3532	$0.3532	$0.3532	
fuel	4.49%	4.49%	4.49%	4.49%	4.49%	4.49%	4.49%	4.49%	4.49%	4.49%	4.49%	4.49%	
Total Delivered	$4.2041	$4.3737	$4.4554	$4.4470	$4.4166	$4.3266	$4.3423	$4.3894	$4.4386	$4.4617	$4.4512	$4.4491	
TENNESSEE ZN 1													
Basis	($0.057)	($0.069)	($0.018)	($0.022)	($0.028)	($0.061)	($0.021)	($0.041)	($0.030)	($0.048)	($0.049)	($0.078)	
usage to Zn 6	$0.3078	$0.3078	$0.3078	$0 3078	$0 3078	$0.3078	$0.3078	$0.3078	$0.3078	$0.3078	$0.3078	$0.3078	
fuel to Zn 6	3 95%	3.95%	3.95%	3.95%	3.95%	3.95%	3.95%	3.95%	3 95%	3 95%	3.95%	3.95%	
Total Delivered	$4.1641	$4.3224	$4.4536	$4.4515	$4.4077	$4.2995	$4.3588	$4.3723	$4.4202	$4.4213	$4.4234	$4.4140	
TENNESSEE DRACUT													
Basis	$1.277	$4.548	$6.701	$5.786	$1.818	$0.255	$0.122	$0.047	$0.344	$0.311	$0.136	$0.176	
usage	$0.0366	$0.0366	$0.0366	$0.0366	$0.0366	$0.0366	$0.0366	$0.0366	$0.0366	$0.0366	$0.0366	$0.0366	
fuel	0 21%	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	0 21%	0 21%	0.21%	0.21%	
Total Delivered	$5.0852	$8.5274	$10.7601	$9 8452	$5 8328	$4.1953	$4.0791	$4.0370	$4.3697	$4.3557	$4.1833	$4.2434	
TETCO __A													
Basis	($0.070)	($0.060)	($0.053)	($0.066)	($0.040)	($0.071)	($0.071)	($0.054)	($0.061)	($0.051)	($0.044)	($0.068)	
Usage to M3	$0.0568	$0.0568	$0.0568	$0.0568	$0.0568	$0.0568	$0.0568	$0.0568	$0.0568	$0.0568	$0.0568	$0.0568	
Usage on AGT	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	
Fuel to M3	5 59%	6.35%	6.35%	6.35%	6.35%	5.59%	5.59%	5.59%	5 59%	5 59%	5.59%	5.59%	
Fuel on AGT	0 92%	1.10%	1.10%	1.10%	1.10%	0.92%	0.92%	0.92%	0 92%	0 92%	0.92%	0.92%	
Total Delivered	$4.0162	$4.2434	$4.3319	$4 3201	$4 3093	$4.1584	$4.1765	$4.2300	$4.2599	$4.2909	$4.3016	$4.2973	
TETCO ETX													
Basis	($0.099)	($0.064)	($0.082)	($0.112)	($0.110)	($0.104)	($0.160)	($0.101)	($0.055)	($0.099)	($0.118)	($0.078)	
Usage to M3	$0.0568	$0.0568	$0.0568	$0.0568	$0.0568	$0.0568	$0.0568	$0.0568	$0.0568	$0.0568	$0.0568	$0.0568	
Usage on AGT	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	
Fuel to M3	5.45%	6.18%	6.18%	6.18%	6.18%	5.45%	5.45%	5.45%	5.45%	5.45%	5.45%	5.45%	
Fuel on AGT	0 92%	1.10%	1.10%	1.10%	1.10%	0.92%	0.92%	0.92%	0 92%	0 92%	0.92%	0.92%	
Total Delivered	$3.9794	$4.2315	$4.2930	$4 2628	$4 2261	$4.1171	$4.0754	$4.1737	$4.2601	$4.2334	$4.2164	$4.2804	

REDACTED

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4436
Attachment EDA-2
Redacted
Page 3 of 17

REDACTED

National Grid
2013 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5

25-Jul-2013

Natural Gas Supply VS. Requirements

Units: DTH

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
TETCO STX													
Basis	($0.073)	($0.087)	($0.092)	($0.092)	($0.080)	($0.087)	($0.090)	($0.077)	($0.065)	($0.063)	($0.075)	($0.098)	
Usage to M3	$0.0626	$0.0626	$0.0626	$0.0626	$0.0626	$0.0626	$0.0626	$0.0626	$0.0626	$0.0626	$0.0626	$0.0626	
Usage on AGT	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	
Fuel to M3	5.41%	6.28%	6.28%	6.28%	6.28%	5.41%	5.41%	5.41%	5.41%	5.41%	5.41%	5.41%	
Fuel on AGT	0 92%	1.10%	1.10%	1.10%	1.10%	0.92%	0.92%	0.92%	0 92%	0 92%	0.92%	0.92%	
Total Delivered	$4.0113	$4.2170	$4.2925	$4 2947	$4 2688	$4.1394	$4.1543	$4.2034	$4.2535	$4.2759	$4.2663	$4.2631	
TETCO WLA													
Basis	($0.065)	($0.009)	($0.056)	($0.067)	($0.035)	($0.055)	($0.072)	($0.122)	($0.087)	$0.008	($0.030)	($0.045)	
Usage to M3	$0.0580	$0.0580	$0.0580	$0.0580	$0.0580	$0.0580	$0.0580	$0.0580	$0.0580	$0.0580	$0.0580	$0.0580	
Usage on AGT	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	
Fuel to M3	5 59%	6.35%	6.35%	6.35%	6.35%	5.59%	5.59%	5.59%	5 59%	5 59%	5.59%	5.59%	
Fuel on AGT	0 92%	1.10%	1.10%	1.10%	1.10%	0.92%	0.92%	0.92%	0 92%	0 92%	0.92%	0.92%	
Total Delivered	$4.0227	$4.2997	$4.3299	$4 3202	$4 3159	$4.1767	$4.1767	$4.1585	$4.2333	$4.3552	$4.3178	$4.3231	
TETCO -> NF -> TRANSCO													
Basis	($0.070)	($0.060)	($0.053)	($0.066)	($0.040)	($0.071)	($0.071)	($0.054)	($0.061)	($0.051)	($0.044)	($0.068)	
Usage to M2	$0.4072	$0.4072	$0.4072	$0.4072	$0.4072	$0.4072	$0.4072	$0.4072	$0.4072	$0.4072	$0.4072	$0.4072	
Usage on NF	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	
Usage on Transco	$0.0099	$0.0099	$0.0099	$0.0099	$0.0099	$0.0099	$0.0099	$0.0099	$0.0099	$0.0099	$0.0099	$0.0099	
Usage on AGT	$0.2291	$0.2291	$0.2291	$0 2291	$0 2291	$0.2291	$0.2291	$0.2291	$0.2291	$0.2291	$0.2291	$0.2291	
Fuel to M2	4.77%	5.38%	5.38%	5.38%	5.38%	4.77%	4.77%	4.77%	4.77%	4.77%	4.77%	4.77%	
Fuel on NF	0 54%	0.54%	0.54%	0.54%	0.54%	0.54%	0.54%	0.54%	0 54%	0 54%	0.54%	0.54%	
Fuel on Transco	0.60%	0.60%	0.60%	0.60%	0.60%	0.60%	0.60%	0.60%	0.60%	0.60%	0.60%	0.60%	
Fuel on AGT	0 92%	1.10%	1.10%	1.10%	1.10%	0.92%	0.92%	0.92%	0.92%	0 92%	0.92%	0.92%	
Delivered to NF	$4.2831	$4.4920	$4.5786	$4 5670	$4 5564	$4.4227	$4.4406	$4.4931	$4.5225	$4.5530	$4.5635	$4.5593	
Delivered to Transco	$4.3229	$4.5329	$4.6201	$4.6084	$4 5978	$4.4634	$4.4813	$4.5341	$4.5637	$4.5943	$4.6048	$4.6006	
Delivered to Algonquin	$4.3589	$4.5702	$4.6579	$4.6461	$4.6354	$4.5002	$4.5183	$4.5714	$4.6011	$4.6319	$4.6425	$4.6383	
Total Delivered	$4.6285	$4.8502	$4.9388	$4 9269	$4 9161	$4.7711	$4.7893	$4.8429	$4.8729	$4.9040	$4.9147	$4.9105	
M3 DELIVERED													
Basis	($0.027)	$0.283	$0.595	$0.538	$0.015	($0.157)	($0.198)	($0.157)	($0.128)	($0.127)	($0.248)	($0.228)	
Usage on AGT	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	
Fuel on AGT	0 92%	1.10%	1.10%	1.10%	1.10%	0.92%	0.92%	0.92%	0 92%	0 92%	0.92%	0.92%	
Total Delivered	$3.7817	$4.2678	$4.6591	$4.6035	$4.0383	$3.7857	$3.7615	$3.8362	$3.9008	$3.9210	$3.8019	$3.8422	
COLUMBIA MAUMEE													
Basis	($0.083)	($0.083)	($0.088)	($0.092)	($0.105)	($0.093)	($0.112)	($0.183)	($0.198)	($0 207)	($0.232)	($0.250)	
Usage on Columbia	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	
Usage on AGT	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	
Fuel on Columbia	1.957%	1.957%	1.957%	1.957%	1.957%	1 957%	1.957%	1.957%	1.957%	1.957%	1.957%	1.957%	
Fuel on AGT	0 92%	1.10%	1.10%	1.10%	1.10%	0.92%	0.92%	0.92%	0 92%	0 92%	0.92%	0.92%	
Total Delivered	$3.8184	$3.9945	$4.0667	$4.0646	$4.0141	$3.9461	$3.9440	$3.9049	$3.9255	$3.9358	$3.9131	$3.9152	

National Grid
2013 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5

25-Jul-2013

Natural Gas Supply VS. Requirements

Units: DTH

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
COLUMBIA BROADRUN													
Basis	($0.083)	($0.083)	($0.088)	($0.092)	($0.105)	($0.093)	($0.112)	($0.183)	($0.198)	($0 207)	($0.232)	($0.250)	
Usage on Columbia	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	
Usage on AGT	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	
Fuel on Columbia	1.957%	1.957%	1.957%	1.957%	1.957%	1 957%	1.957%	1.957%	1.957%	1.957%	1.957%	1.957%	
Fuel on AGT	0 92%	1.10%	1.10%	1.10%	1.10%	0.92%	0.92%	0.92%	0 92%	0 92%	0.92%	0.92%	
Total Delivered	$3.8184	$3.9945	$4.0667	$4.0646	$4.0141	$3.9461	$3.9440	$3.9049	$3.9255	$3.9358	$3.9131	$3.9152	
COLUMBIA EAGLE													
Basis	($0.027)	$0.283	$0.595	$0.538	$0.015	($0.157)	($0.198)	($0.157)	($0.128)	($0.127)	($0.248)	($0.228)	
Usage on Columbia	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	
Usage on AGT	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	
Fuel on Columbia	1.957%	1.957%	1.957%	1.957%	1.957%	1 957%	1.957%	1.957%	1.957%	1.957%	1.957%	1.957%	
Fuel on AGT	0 92%	1.10%	1.10%	1.10%	1.10%	0.92%	0.92%	0.92%	0 92%	0 92%	0.92%	0.92%	
Total Delivered	$3.8761	$4.3719	$4.7711	$4.7143	$4.1378	$3.8802	$3.8555	$3.9317	$3.9975	$4.0181	$3.8967	$3.9378	
COLUMBIA DOWNINGTOWN													
Basis	($0.014)	$0.363	$0.862	$0.758	$0.045	($0.157)	($0.198)	($0.157)	($0.091)	($0.114)	($0.251)	($0.231)	
Usage on Columbia	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	
Usage on AGT	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	
Fuel on Columbia	1.957%	1.957%	1.957%	1.957%	1.957%	1 957%	1.957%	1.957%	1.957%	1.957%	1.957%	1.957%	
Fuel on AGT	0 92%	1.10%	1.10%	1.10%	1.10%	0.92%	0.92%	0.92%	0 92%	0 92%	0.92%	0.92%	
Total Delivered	$3.8895	$4.4544	$5.0464	$4 9412	$4.1688	$3.8802	$3.8555	$3.9317	$4.0356	$4.0315	$3.8936	$3.9348	
TETCO -> DTI -> TETCO													
Basis	($0.070)	($0.060)	($0.053)	($0.066)	($0.040)	($0.071)	($0.071)	($0.054)	($0.061)	($0.051)	($0.044)	($0.068)	
Usage to M2	$0.4072	$0.4072	$0.4072	$0.4072	$0.4072	$0.4072	$0.4072	$0.4072	$0.4072	$0.4072	$0.4072	$0.4072	
Usage on Dominion	$0.0234	$0.0234	$0.0234	$0.0234	$0.0234	$0.0234	$0.0234	$0.0234	$0.0234	$0.0234	$0.0234	$0.0234	
Usage on Tetco	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	
Usage on AGT	$0.2291	$0.2291	$0.2291	$0 2291	$0 2291	$0.2291	$0.2291	$0.2291	$0.2291	$0.2291	$0.2291	$0.2291	
Fuel to M2	4.77%	5.38%	5.38%	5.38%	5.38%	4.77%	4.77%	4.77%	4.77%	4.77%	4.77%	4.77%	
Fuel on Dominion	2 85%	2.85%	2.85%	2.85%	2.85%	2.85%	2.85%	2.85%	2 85%	2 85%	2.85%	2.85%	
Fuel on Tetco	1 29%	1.29%	1.29%	1.29%	1.29%	1.29%	1.29%	1.29%	1 29%	1 29%	1.29%	1.29%	
Fuel on AGT	0 92%	1.10%	1.10%	1.10%	1.10%	0.92%	0.92%	0.92%	0 92%	0 92%	0.92%	0.92%	
Delivered to Dominion	$4.2831	$4.4920	$4.5786	$4 5670	$4 5564	$4.4227	$4.4406	$4.4931	$4.5225	$4.5530	$4.5635	$4.5593	
Delivered to Tetco	$4.4321	$4.6471	$4.7363	$4.7244	$4.7135	$4.5759	$4.5943	$4.6483	$4.6786	$4.7099	$4.7207	$4.7164	
Delivered to Algonquin	$4.4918	$4.7097	$4.8000	$4.7879	$4.7769	$4.6375	$4.6561	$4.7109	$4.7415	$4.7733	$4.7842	$4.7798	
Total Delivered	$4.7627	$4.9912	$5.0825	$5.0703	$5.0591	$4.9096	$4.9284	$4.9837	$5.0146	$5.0467	$5.0577	$5.0533	
TRANSCO ZONE 2													
Basis	($0.023)	($0.021)	($0.004)	($0.018)	($0.008)	($0.033)	($0.026)	($0.016)	($0.009)	($0.026)	($0.033)	($0.053)	
Usage on Transco	$0.04944	$0.04944	$0.04944	$0.04944	$0.04944	$0.04944	$0.04944	$0.04944	$0.04944	$0.04944	$0.04944	$0.04944	
Usage on Tetco	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	
Usage on AGT	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	
Fuel on Transco	3 93%	3.93%	3.93%	3.93%	3.93%	3.93%	3.93%	3.93%	3 93%	3 93%	3.93%	3.93%	
Fuel on Tetco	1 29%	1.29%	1.29%	1.29%	1.29%	1.29%	1.29%	1.29%	1 29%	1 29%	1.29%	1.29%	
Fuel on AGT	0 92%	1.10%	1.10%	1.10%	1.10%	0.92%	0.92%	0.92%	0 92%	0 92%	0.92%	0.92%	
Total Delivered	$4.0437	$4.2281	$4.3262	$4 3134	$4 2856	$4.1757	$4.2012	$4.2470	$4.2917	$4.2938	$4.2896	$4.2896	

REDACTED

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4436
Attachment EDA-2
Redacted
Page 5 of 17

National Grid
2013 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5

25-Jul-2013

Natural Gas Supply VS. Requirements

Units: DTH

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
TRANSCO ZONE 3													
Basis	$0.002	$0.001	$0.005	$0.003	$0.003	$0.013	$0.020	$0.003	$0.003	$0.016	($0.010)	($0.027)	
Usage on Transco	$0.04478	$0.04478	$0.04478	$0.04478	$0.04478	$0.04478	$0.04478	$0.04478	$0.04478	$0.04478	$0.04478	$0.04478	
Usage on Tetco	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	
Usage on AGT	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	
Fuel on Transco	3 51%	3.51%	3.51%	3.51%	3.51%	3.51%	3.51%	3.51%	3 51%	3 51%	3.51%	3.51%	
Fuel on Tetco	1 29%	1.29%	1.29%	1.29%	1.29%	1.29%	1.29%	1.29%	1 29%	1 29%	1.29%	1.29%	
Fuel on AGT	0 92%	1.10%	1.10%	1.10%	1.10%	0.92%	0.92%	0.92%	0 92%	0 92%	0.92%	0.92%	
Total Delivered	$4.0481	$4.2285	$4.3124	$4 3124	$4 2742	$4.2018	$4.2272	$4.2442	$4.2813	$4.3152	$4.2908	$4.2940	
DAWN TO TENNESSEE - ANE II													
Basis	$0 390	$0.270	$0.210	$0.240	$0.290	$0.227	$0.220	$0.193	$0.127	$0.114	$0.154	$0.161	
Transcanada usage	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	
Transcanada pressure chg	$0.0147	$0.0147	$0.0147	$0.0147	$0.0147	$0.0147	$0.0147	$0.0147	$0.0147	$0.0147	$0.0147	$0.0147	
Iroquois usage	$0.0048	$0.0048	$0.0048	$0.0048	$0.0048	$0.0048	$0.0048	$0.0048	$0.0048	$0.0048	$0.0048	$0.0048	
Tenn usage	$0.0896	$0.0896	$0.0896	$0.0896	$0.0896	$0.0896	$0.0896	$0.0896	$0.0896	$0.0896	$0.0896	$0.0896	
Fuel on Union	0.840%	0.945%	1.086%	1.033%	0.972%	0 802%	0.567%	0.463%	0.451%	0.355%	0.352%	0.697%	
Fuel on TCPL	0.460%	0.510%	0.780%	0.720%	0.970%	0 520%	0.340%	0.230%	0.200%	0.130%	0.130%	0.180%	
Fuel on Iroquois	0.40%	0.40%	0.40%	0.40%	0.40%	0.40%	0.40%	0.40%	0.40%	0.40%	0.40%	0.40%	
Fuel on Tenn	1.06%	1.06%	1.06%	1.06%	1.06%	1.06%	1.06%	1.06%	1.06%	1.06%	1.06%	1.06%	
Total Delivered	$4.3770	$4.4290	$4.4624	$4.4905	$4 5133	$4.3481	$4.3407	$4.3377	$4.3043	$4.3034	$4.3472	$4.3916	
NIAGARA TO TENNESSEE													
Basis	$0 290	$0.170	$0.110	$0.140	$0.190	$0.127	$0.120	$0.093	$0.042	$0.043	$0.040	$0.057	
Tenn usage	$0.0896	$0.0896	$0.0896	$0.0896	$0.0896	$0.0896	$0.0896	$0.0896	$0.0896	$0.0896	$0.0896	$0.0896	
Tenn Fuel	1.06%	1.06%	1.06%	1.06%	1.06%	1.06%	1.06%	1.06%	1.06%	1.06%	1.06%	1.06%	
Total Delivered	$4.1840	$4.2285	$4.2436	$4 2760	$4 2901	$4.1547	$4.1648	$4.1709	$4.1547	$4.1749	$4.1749	$4.2123	
Tetco to B&W - SCT													
Basis	($0.070)	($0.060)	($0.053)	($0.066)	($0.040)	($0.071)	($0.071)	($0.054)	($0.061)	($0.051)	($0.044)	($0.068)	
usage on Tetco	$0.5028	$0.5028	$0.5028	$0 5028	$0 5028	$0.5028	$0.5028	$0.5028	$0.5028	$0.5028	$0.5028	$0.5028	
usage on AGT	$0.2291	$0.2291	$0.2291	$0 2291	$0 2291	$0.2291	$0.2291	$0.2291	$0.2291	$0.2291	$0.2291	$0.2291	
fuel to ZN 3	5 54%	6.32%	6.32%	6.32%	6.32%	5.54%	5.54%	5.54%	5 54%	5 54%	5.54%	5.54%	
Fuel on AGT	0 92%	1.10%	1.10%	1.10%	1.10%	0.92%	0.92%	0.92%	0 92%	0 92%	0.92%	0.92%	
Total Delivered	$4.6803	$4.9091	$4.9976	$4 9858	$4 9750	$4.8224	$4.8406	$4.8940	$4.9239	$4.9549	$4.9656	$4.9613	
Hubline													
Basis	$1.2570	$4.4850	$6.7480	$5 8420	$1 8680	$0.2950	$0.1250	$0.2770	$0.3100	$0.2850	$0.1520	$0.1620	
usage	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	
fuel	0 92%	1.10%	1.10%	1.10%	1.10%	0.92%	0.92%	0.92%	0 92%	0 92%	0.92%	0.92%	
Total Delivered	$5.0776	$8.5165	$10.8805	$9 9665	$5 9119	$4.2419	$4.0875	$4.2742	$4.3428	$4.3368	$4.2056	$4.2359	

REDACTED

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4436
Attachment EDA-2
Redacted
Page 6 of 17

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4436
Attachment EDA-2
Redacted
Page 7 of 17

REDACTED

National Grid
2013 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5

25-Jul-2013

Natural Gas Supply VS. Requirements

Units: DTH

Total Delivered to the City Gate Gas Supply Costs

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
TENN CONNEXION													
Delivered Mmbtu	348,000	359,600	359,600	324,800	359,600	348,000	332,700	285,700	353,800	189,100	195,200	359,600	
NYMEX $/Mmbtu Del	$3.853	$4.022	$4.104	$4.096	$4.065	$3.975	$3.991	$4.038	$4.087	$4.110	$4.100	$4.098	
Total Delivered Cost	$1,340,742	$1,446,427	$1,475,794	$1,330,255	$1,461,863	$1,383,372	$1,327,776	$1,153,664	$1,446,064	$777,252	$800,281	$1,473,535	
Tennessee Zn 0													
Delivered Mmbtu	0	139,933	179,793	126,592	77,481	17,788	0	0	0	0	0	0	
NYMEX $/Mmbtu Del	$4.204	$4.374	$4.455	$4.447	$4.417	$4.327	$4.342	$4 389	$4.439	$4.462	$4.451	$4.449	
Total Delivered Cost	$0	$612,028	$801,049	$562,957	$342,206	$76,961	$0	$0	$0	$0	$0	$0	
TENN ZONE 1													
Delivered Mmbtu	0	291,167	374,107	263,408	161,219	37,012	0	0	0	0	0	0	
$/Mmbtu Del	$4.164	$4.322	$4.454	$4.451	$4.408	$4.299	$4.359	$4 372	$4.420	$4.421	$4.423	$4.414	
Total Delivered Cost	$0	$1,258,533	$1,666,106	$1,172,554	$710,613	$159,133	$0	$0	$0	$0	$0	$0	
TENN DRACUT													
Delivered Mmbtu	0	95,000	134,000	44,000	27,000	141,500	132,600	89,200	0	0	0	25,200	
$/Mmbtu Del	$5.09	[redacted]				$4.20	$4.08	$4.04	$4.37	$4.36	$4.18	$4 24	
Total Delivered Cost	$0					$593,640	$540,887	$360,100	$0	$0	$0	$106,935	
TETCO ELA													
Delivered Mmbtu	0	301,952	296,962	268,206	0	161,557	88,843	5,986	6,177	143,216	27,682	6,177	
$/Mmbtu Del	$4.0162	$4.2434	$4.3319	$4 3201	$4 3093	$4.1584	$4.1765	$4.2300	$4.2599	$4.2909	$4.3016	$4.2973	
Total Delivered Cost	$0	$1,281,302	$1,286,419	$1,158,668	$0	$671,811	$371,055	$25,322	$26,314	$614,529	$119,079	$26,545	
TETCO ETX													
Delivered Mmbtu	0	90,457	88,960	80,348	0	48,398	26,615	1,793	1,850	42,904	8,293	1,850	
NYMEX $/Mmbtu Del	$3.9794	$4.2315	$4.2930	$4 2628	$4 2261	$4.1171	$4.0754	$4.1737	$4.2601	$4.2334	$4.2164	$4.2804	
Total Delivered Cost	$0	$382,770	$381,903	$342,504	$0	$199,259	$108,468	$7,485	$7,883	$181,630	$34,966	$7,921	
TETCO STX													
Delivered Mmbtu	0	134,823	132,593	119,756	0	72,136	39,669	2,673	2,758	63,947	12,360	2,758	
NYMEX $/Mmbtu Del	$4.011	$4.217	$4.293	$4.295	$4.269	$4.139	$4.154	$4 203	$4 254	$4.276	$4.266	$4.263	
Total Delivered Cost	$0	$568,553	$569,162	$514,316	$0	$298,598	$164,797	$11,236	$11,732	$273,434	$52,733	$11,758	
TETCO WLA													
Delivered Mmbtu	0	207,516	204,083	184,324	0	111,030	61,057	4,114	4,245	98,425	19,025	4,245	
$/Mmbtu Del	$4.0227	$4.2997	$4.3299	$4 3202	$4 3159	$4.1767	$4.1767	$4.1585	$4.2333	$4.3552	$4.3178	$4.3231	
Total Delivered Cost	$0	$892,251	$883,661	$796,317	$0	$463,734	$255,016	$17,109	$17,971	$428,661	$82,144	$18,352	

National Grid
2013 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5
25-Jul-2013

Natural Gas Supply VS. Requirements   Units: DTH

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
TETCO -> NF -> TRANSCO													
Delivered Mmbtu	0	14,796	14,551	13,142	0	7,917	4,353	293	303	7,018	1,356	303	
Delivered $/Mmbtu	$4.6285	$4.8502	$4.9388	$4 9269	$4 9161	$4.7711	$4.7893	$4.8429	$4.8729	$4.9040	$4.9147	$4.9105	
Delivered Cost	$0	$71,763	$71,866	$64,752	$0	$37,770	$20,850	$1,421	$1,475	$34,415	$6,667	$1,486	
M3 DELIVERED													
Delivered Mmbtu	1,502,100	704,400	508,400	300,100	1,759,200	1,613,800	1,035,100	516,500	301,000	306,700	438,800	930,000	
Delivered $/Mmbtu	$3.7817	$4.2678	$4.6591	$4.6035	$4.0383	$3.7857	$3.7615	$3.8362	$3.9008	$3.9210	$3.8019	$3.8422	
Delivered Cost	$5,680,449	$3,006,240	$2,368,690	$1,381,509	$7,104,139	$6,109,377	$3,893,514	$1,981,383	$1,174,131	$1,202,556	$1,668,255	$3,573,273	
COLUMBIA MAUMEE													
Delivered Mmbtu	14,900	871,200	872,200	787,600	872,300	36,600	0	40,800	148,500	108,600	0	14,300	
Delivered $/Mmbtu	$3.8184	$3.9945	$4.0667	$4.0646	$4.0141	$3.9461	$3.9440	$3.9049	$3.9255	$3.9358	$3.9131	$3.9152	
Total Delivered Cost	$56,895	$3,479,995	$3,546,955	$3,201,290	$3,501,482	$144,426	$0	$159,320	$582,935	$427,426	$0	$55,987	
COLUMBIA BROADRUN													
Delivered Mmbtu	0	300,600	300,900	271,800	300,900	29,100	0	0	0	3,600	0	0	
Delivered $/Mmbtu	$3.8184	$3.9945	$4.0667	$4.0646	$4.0141	$3.9461	$3.9440	$3.9049	$3.9255	$3.9358	$3.9131	$3.9152	
Total Delivered Cost	$0	$1,200,742	$1,223,663	$1,104,762	$1,207,837	$114,831	$0	$0	$0	$14,169	$0	$0	
COLUMBIA EAGLE													
Delivered Mmbtu	0	0	80,600	5,100	24,600	69,400	45,500	0	0	0	0	0	
Delivered $/Mmbtu	$3.8761	$4.3719	$4.7711	$4.7143	$4.1378	$3.8802	$3.8555	$3.9317	$3.9975	$4.0181	$3.8967	$3.9378	
Delivered Cost	$0	$0	$384,547	$24,043	$101,791	$269,285	$175,425	$0	$0	$0	$0	$0	
COLUMBIA DOWNINGTOWN													
Delivered Mmbtu	0	0	70,900	0	19,300	39,600	3,500	0	0	0	26,500	0	
Delivered $/Mmbtu	$3.8895	$4.4544	$5.0464	$4 9412	$4.1688	$3.8802	$3.8555	$3.9317	$4.0356	$4.0315	$3.8936	$3.9348	
Delivered Cost	$0	$0	$357,791	$0	$80,457	$153,656	$13,494	$0	$0	$0	$103,180	$0	
TETCO -> DTI -> TETCO													
Delivered Mmbtu	0	8,782	8,636	7,800	0	4,699	2,584	174	180	4,165	805	180	
Delivered $/Mmbtu	$4.7627	$4.9912	$5.0825	$5.0703	$5.0591	$4.9096	$4.9284	$4.9837	$5.0146	$5.0467	$5.0577	$5.0533	
Delivered Cost	$0	$43,831	$43,895	$39,549	$0	$23,068	$12,734	$868	$901	$21,020	$4,072	$908	
TRANSCO ZONE 2													
Delivered Mmbtu	0	4,013	4,013	3,621	0	0	0	0	0	0	0	0	
Delivered $/Mmbtu	$4.0437	$4.2281	$4.3262	$4 3134	$4 2856	$4.1757	$4.2012	$4.2470	$4.2917	$4.2938	$4.2896	$4.2896	
Delivered Cost	$0	$16,966	$17,360	$15,620	$0	$0	$0	$0	$0	$0	$0	$0	

REDACTED

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4436
Attachment EDA-2
Redacted
Page 8 of 17

REDACTED

National Grid
2013 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5
25-Jul-2013

Natural Gas Supply VS. Requirements
Units: DTH

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
TRANSCO ZONE 3													
Delivered Mmbtu	0	85	85	77	0	0	0	0	0	0	0	0	
Delivered $/Mmbtu	$4.0481	$4.2285	$4.3124	$4 3124	$4 2742	$4.2018	$4.2272	$4.2442	$4.2813	$4.3152	$4.2908	$4.2940	
Delivered Cost	$0	$361	$368	$332	$0	$0	$0	$0	$0	$0	$0	$0	
DAWN TO TENNESSEE - ANE II													
Delivered Mmbtu	30,000	31,000	31,000	28,000	31,000	0	0	0	0	0	0	0	
Delivered $/Mmbtu	$4.3770	$4.4290	$4.4624	$4.4905	$4 5133	$4.3481	$4.3407	$4.3377	$4.3043	$4.3034	$4.3472	$4.3916	
Total Delivered Cost	$131,310	$137,298	$138,334	$125,734	$139,913	$0	$0	$0	$0	$0	$0	$0	
NIAGARA TO TENNESSEE													
Delivered Mmbtu	15,400	33,100	33,100	29,900	33,100	32,000	2,100	0	0	0	0	17,900	
Delivered $/Mmbtu	$4.1840	$4.2285	$4.2436	$4 2760	$4 2901	$4.1547	$4.1648	$4.1709	$4.1547	$4.1749	$4.1749	$4.2123	
Total Delivered Cost	$64,434	$139,962	$140,464	$127,852	$142,003	$132,950	$8,746	$0	$0	$0	$0	$75,400	
Tetco to B&W - SCT													
Delivered Mmbtu	0	33,575	33,020	29,823	0	17,964	9,879	666	687	15,925	3,078	687	
Delivered $/Mmbtu	$4.6803	$4.9091	$4.9976	$4 9858	$4 9750	$4.8224	$4.8406	$4.8940	$4.9239	$4.9549	$4.9656	$4.9613	
Total Delivered Cost	$0	$164,824	$165,020	$148,689	$0	$86,630	$47,819	$3,258	$3,382	$78,906	$15,285	$3,408	
HUBLINE													
Total Delivered Vol	0	92,000	92,100	83,200	0	0	0	0	0	0	0	0	
Delivered $/Mmbtu	$5.0776	$8.5165	$10.8805	$9 9665	$5 9119	$4.2419	$4.0875	$4.2742	$4.3428	$4.3368	$4.2056	$4.2359	
Total Delivered Cost	$0	$783,522	$1,002,098	$829,212	$0	$0	$0	$0	$0	$0	$0	$0	

	NOV 2013	**DEC** 2013	**JAN** 2014	**FEB** 2014	**MAR** 2014	**APR** 2014	**MAY** 2014	**JUN** 2014	**JUL** 2014	**AUG** 2014	**SEP** 2014	**OCT** 2014	
Financial Hedges as of July 2013													
Quantity	1,320,000	3,160,000	2,840,000	2,430,000	2,490,000	1,160,516	852,511	578,146	417,935	222,493	467,003	524,420	**16,463,025**
Average Price	$4.419	$4.245	$4.197	$4.117	$4.021	$3.788	$3.862	$3 803	$4.000	$4.015	$3.997	$4.171	
07/15/2013 NYMEX	$3.761	$3.925	$4.000	$4.002	$3.966	$3.895	$3.912	$3 945	$3 980	$3.999	$4.002	$4.022	
Impact of Financial Hedges	**$868,208**	**$1,011,138**	**$559,853**	**$280,403**	**$136,263**	**-$123,771**	**-$42,440**	**-$81,827**	**$8,432**	**$3,572**	**-$2,387**	**$78,281**	**$2,695,725.40**
Total Pipeline Costs (Incl Inj)	**$8,142,036**	[redacted]				**$10,794,730**	**$6,898,141**	**$3,639,338**	**$3,281,220**	**$4,057,571**	**$2,884,275**	**$5,433,789**	**$112,264,490**
Total Delivered Pipeline Vol	**1,910,400**					**2,788,500**	**1,784,500**	**947,900**	**819,500**	**983,600**	**733,100**	**1,363,200**	**25,501,600**
WACOG (Cost/Volume)	$4.262					$3.871	$3.866	$3 839	$4.004	$4.125	$3.934	$3.986	$4.402
Injections	0	0	0	0	0	631,100	461,600	217,200	218,600	375,700	99,100	151,500	2,154,800
Cost of Injections	$0	$0	$0	$0	$0	$2,443,089	$1,784,355	$833,911	$875,259	$1,549,847	$389,894	$603,887	**$8,480,243**
Total GCR Cost Including Financial Hedges, Excluding Injections													
Total Pipeline Costs	**$8,142,036**	[redacted]				**$8,351,641**	**$5,113,785**	**$2,805,427**	**$2,405,961**	**$2,507,724**	**$2,494,380**	**$4,829,902**	**$103,784,247**
Total Pipeline Purchase Volumes	**1,910,400**					**2,157,400**	**1,322,900**	**730,700**	**600,900**	**607,900**	**634,000**	**1,211,700**	**23,346,800**

REDACTED

2013 GCR estimate
FIXED COST ESTIMATES
Nov 2013 - Oct 2014

2013-2014 Gas Supply Fixed Costs
UNIT PRICES

		NOV	DEC	JAN-13	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
PIPELINE FIXED COST UNIT PRICES $/Dth													
ALGONQU N AFT-E/AFT-1 DEMAND	$/Dth	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213
ALGONQU N AFT-3 DEMAND	$/Dth	$10.7554	$10.7554	$10.7554	$10.7554	$10.7554	$10.7554	$10.7554	$10.7554	$10.7554	$10.7554	$10.7554	$10.7554
ALGONQU N AFT-ES/1S DEMAND	$/Dth	$2 5685	$2.5685	$2 5685	$2.5685	$2.5685	$2 5685	$2.5685	$2 5685	$2.5685	$2.5685	$2 5685	$2.5685
ALGONQU N HUBL NE DEMAND	$/Dth	$11 5583	$11.5583	$11 5583	$11.5583	$11.5583	$11 5583	$11.5583	$11 5583	$11.5583	$11.5583	$11 5583	$11.5583
ALGONQU N HUBL NE DEMAND	$/Dth	$6 9958	$6.9958	$6 9958	$6.9958	$6.9958	$6 9958	$6.9958	$6 9958	$6.9958	$6.9958	$6 9958	$6.9958
ALGONQU N HUBL NE DEMAND	$/Dth	$6 9920	$6.9920	$6 9920	$6.9920	$6.9920	$6 9920	$6.9920	$6 9920	$6.9920	$6.9920	$6 9920	$6.9920
ALGONQU N EAST TO WEST DEMAND	$/Dth	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341
COLUMBIA FTS DEMAND	$/Dth	$5.7280	$5.7280	$5.7280	$5.7280	$5.7280	$5.7280	$5.7280	$5.7280	$5.7280	$5.7280	$5.7280	$5.7280
DOM NION FTNN DEMAND	$/Dth	$4 2040	$4.2040	$4 2040	$4.2040	$4.2040	$4 2040	$4.2040	$4 2040	$4.2040	$4.2040	$4 2040	$4.2040
IROQUOIS DEMAND	$/Dth	$6 5971	$6.5971	$6 5971	$6.5971	$6.5971	$6 5971	$6.5971	$6 5971	$6.5971	$6.5971	$6 5971	$6.5971
NATIONAL FUEL DEMAND	$/Dth	$3 9622	$3.9622	$3 9622	$3.9622	$3.9622	$3 9622	$3.9622	$3 9622	$3.9622	$3.9622	$3 9622	$3.9622
TENNESSEE FT-A DEMAND ZONE 0 TO 6	$/Dth	$22.6587	$22.6587	$22.6587	$22.6587	$22.6587	$22.6587	$22.6587	$22.6587	$22.6587	$22.6587	$22.6587	$22.6587
TENNESSEE FT-A DEMAND ZONE 1 TO 6	$/Dth	$22.6587	$22.6587	$22.6587	$22.6587	$22.6587	$22.6587	$22.6587	$22.6587	$22.6587	$22.6587	$22.6587	$22.6587
TENNESSEE FT-A DEMAND ZONE 0 TO 6	$/Dth	$22 5522	$22.5522	$22 5522	$22.5522	$22.5522	$22 5522	$22.5522	$22 5522	$22.5522	$22.5522	$22 5522	$22.5522
TENNESSEE FT-A DEMAND ZONE 1 TO 6	$/Dth	$22 5522	$22.5522	$22 5522	$22.5522	$22.5522	$22 5522	$22.5522	$22 5522	$22.5522	$22.5522	$22 5522	$22.5522
TENNESSEE FT-A DEMAND ZONE 0 TO 6 CXN	$/Dth	$22.7365	$22.7365	$22.7365	$22.7365	$22.7365	$22.7365	$22.7365	$22.7365	$22.7365	$22.7365	$22.7365	$22.7365
TENNESSEE FT-A DEMAND DRACUT	$/Dth	$4 8846	$4.8846	$4 8846	$4.8846	$4.8846	$4 8846	$4.8846	$4 8846	$4.8846	$4.8846	$4 8846	$4.8846
TENNESSEE FT-A DEMAND ZONE 5 TO 6	$/Dth	$7.4396	$7.4396	$7.4396	$7.4396	$7.4396	$7.4396	$7.4396	$7.4396	$7.4396	$7.4396	$7.4396	$7.4396
TEXAS EASTERN CDS STX DEMAND M3	$/Dth	$6 8030	$6.8030	$6 8030	$6.8030	$6.8030	$6 8030	$6.8030	$6 8030	$6.8030	$6.8030	$6 8030	$6.8030
TEXAS EASTERN CDS WLA DEMAND M3	$/Dth	$2 8240	$2.8240	$2 8240	$2.8240	$2.8240	$2 8240	$2.8240	$2 8240	$2.8240	$2.8240	$2 8240	$2.8240
TEXAS EASTERN CDS ELA DEMAND M3	$/Dth	$2 3740	$2.3740	$2 3740	$2.3740	$2.3740	$2 3740	$2.3740	$2 3740	$2.3740	$2.3740	$2 3740	$2.3740
TEXAS EASTERN CDS ETX DEMAND M3	$/Dth	$2.1880	$2.1880	$2.1880	$2.1880	$2.1880	$2.1880	$2.1880	$2.1880	$2.1880	$2.1880	$2.1880	$2.1880
TEXAS EASTERN CDS 1-3 DEMAND M3	$/Dth	$10 2620	$10.2620	$10 2620	$10.2620	$10.2620	$10 2620	$10.2620	$10 2620	$10.2620	$10.2620	$10 2620	$10.2620
TEXAS EASTERN FTS DEMAND	$/Dth	$5 3510	$5.3510	$5 3510	$5.3510	$5.3510	$5 3510	$5.3510	$5 3510	$5.3510	$5.3510	$5 3510	$5.3510
TEXAS EASTERN SCT STX DEMAND M3	$/Dth	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210
TEXAS EASTERN SCT WLA DEMAND M3	$/Dth	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300
TEXAS EASTERN SCT ELA DEMAND M3	$/Dth	$0 9500	$0.9500	$0 9500	$0.9500	$0.9500	$0 9500	$0.9500	$0 9500	$0.9500	$0.9500	$0 9500	$0.9500
TEXAS EASTERN SCT ETX DEMAND M3	$/Dth	$0 8750	$0.8750	$0 8750	$0.8750	$0.8750	$0 8750	$0.8750	$0 8750	$0.8750	$0.8750	$0 8750	$0.8750
TEXAS EASTERN SCT 1-3 DEMAND M3	$/Dth	$4.1050	$4.1050	$4.1050	$4.1050	$4.1050	$4.1050	$4.1050	$4.1050	$4.1050	$4.1050	$4.1050	$4.1050
TEXAS EASTERN SCT STX DEMAND M2	$/Dth	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210
TEXAS EASTERN SCT WLA DEMAND M2	$/Dth	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300
TEXAS EASTERN SCT ELA DEMAND M2	$/Dth	$0 9500	$0.9500	$0 9500	$0.9500	$0.9500	$0 9500	$0.9500	$0 9500	$0.9500	$0.9500	$0 9500	$0.9500
TEXAS EASTERN SCT ETX DEMAND M2	$/Dth	$0 8750	$0.8750	$0 8750	$0.8750	$0.8750	$0 8750	$0.8750	$0 8750	$0.8750	$0.8750	$0 8750	$0.8750
TEXAS EASTERN SCT 1-2 DEMAND M2	$/Dth	$3.1480	$3.1480	$3.1480	$3.1480	$3.1480	$3.1480	$3.1480	$3.1480	$3.1480	$3.1480	$3.1480	$3.1480
TRANSCANADA DEMAND	$/Dth	$9 3219	$9.6326	$9.6326	$8.7004	$9.6326	$9 3219	$9.6326	$9 3219	$9.6326	$9.6326	$9 3219	$9.6326
TRANSCO DEMAND ZONE 2 TO 6	$/Dth	$0 5544	$0.5544	$0 5544	$0.5544	$0.5544	$0 5544	$0.5544	$0 5544	$0.5544	$0.5544	$0 5544	$0.5544
TRANSCO DEMAND ZONE 3 TO 6	$/Dth	$0 5212	$0.5212	$0 5212	$0.5212	$0.5212	$0 5212	$0.5212	$0 5212	$0.5212	$0.5212	$0 5212	$0.5212
TRANSCO DEMAND ZONE 6	$/Dth	$0.1472	$0.1472	$0.1472	$0.1472	$0.1472	$0.1472	$0.1472	$0.1472	$0.1472	$0.1472	$0.1472	$0.1472
UNION DEMAND	$/Dth	$2 3940	$2.4738	$2.4738	$2.2344	$2.4738	$2 3940	$2.4738	$2 3940	$2.4738	$2.4738	$2 3940	$2.4738
STORAGE FIXED COST UNIT PRICES													
COLUMBIA FSS DEMAND	$/Dth	$1 5090	$1.5090	$1 5090	$1.5090	$1.5090	$1 5090	$1.5090	$1 5090	$1.5090	$1.5090	$1 5090	$1.5090
COLUMBIA FSS CAPACITY	$/Dth	$0.0289	$0.0289	$0.0289	$0.0289	$0.0289	$0.0289	$0.0289	$0.0289	$0.0289	$0.0289	$0.0289	$0.0289
DOM NION GSS DEMAND	$/Dth	$1 8438	$1.8438	$1 8438	$1.8438	$1.8438	$1 8438	$1.8438	$1 8438	$1.8438	$1.8438	$1 8438	$1.8438
DOM NION GSS CAPACITY	$/Dth	$0.0145	$0.0145	$0.0145	$0.0145	$0.0145	$0.0145	$0.0145	$0.0145	$0.0145	$0.0145	$0.0145	$0.0145
DOM NION GSS-TE DEMAND	$/Dth	$1 8438	$1.8438	$1 8438	$1.8438	$1.8438	$1 8438	$1.8438	$1 8438	$1.8438	$1.8438	$1 8438	$1.8438
DOM NION GSS-TE CAPACITY	$/Dth	$0.0145	$0.0145	$0.0145	$0.0145	$0.0145	$0.0145	$0.0145	$0.0145	$0.0145	$0.0145	$0.0145	$0.0145
TENNESSEE FSMA DEMAND	$/Dth	$1 5400	$1.5400	$1 5400	$1.5400	$1.5400	$1 5400	$1.5400	$1 5400	$1.5400	$1.5400	$1 5400	$1.5400
TENNESSEE FSMA CAPACITY	$/Dth	$0.0211	$0.0211	$0.0211	$0.0211	$0.0211	$0.0211	$0.0211	$0.0211	$0.0211	$0.0211	$0.0211	$0.0211
TEXAS EASTERN SS-1 DEMAND	$/Dth	$5 3320	$5.3320	$5 3320	$5.3320	$5.3320	$5 3320	$5.3320	$5 3320	$5.3320	$5.3320	$5 3320	$5.3320
TEXAS EASTERN SS-1 CAPACITY	$/Dth	$0.1293	$0.1293	$0.1293	$0.1293	$0.1293	$0.1293	$0.1293	$0.1293	$0.1293	$0.1293	$0.1293	$0.1293
TEXAS EASTERN FSS-1 DEMAND	$/Dth	$0 8950	$0.8950	$0 8950	$0.8950	$0.8950	$0 8950	$0.8950	$0 8950	$0.8950	$0.8950	$0 8950	$0.8950
TEXAS EASTERN FSS-1 CAPACITY	$/Dth	$0.1293	$0.1293	$0.1293	$0.1293	$0.1293	$0.1293	$0.1293	$0.1293	$0.1293	$0.1293	$0.1293	$0.1293

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4436
Attachment EDA-2
Redacted
Page 10 of 17

REDACTED

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4436
Attachment EDA-2
Redacted
Page 11 of 17

		NOV	DEC	JAN-13	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
STORAGE DELIVERY FIXED													
UNIT RATES ($/Dth)													
PATH													
ALGONQU N FOR TETCO SS-1	$/Dth	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213
ALGONQU N DELIVERY FOR FSS-1	$/Dth	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213
ALGONQU N SCT FOR SS-1	$/Dth	$2 5685	$2.5685	$2 5685	$2.5685	$2.5685	$2 5685	$2.5685	$2 5685	$2.5685	$2.5685	$2 5685	$2.5685
ALGONQU N DELIVERY FOR GSS, GSS-TE,	$/Dth	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213
ALGONQU N SCT DELIVERY FOR GSS-TE	$/Dth	$2 5685	$2.5685	$2 5685	$2.5685	$2.5685	$2 5685	$2.5685	$2 5685	$2.5685	$2.5685	$2 5685	$2.5685
ALGONQU N DELIVERY FOR GSS CONV.	$/Dth	$9.7854	$9.7854	$9.7854	$9.7854	$9.7854	$9.7854	$9.7854	$9.7854	$9.7854	$9.7854	$9.7854	$9.7854
ALGONQU N DELIVERY FOR FSS	$/Dth	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213
COLUMBIA DELIVERY FOR FSS	$/Dth	$5 5580	$5.5580	$5 5580	$5.5580	$5.5580	$5 5580	$5.5580	$5 5580	$5.5580	$5.5580	$5 5580	$5.5580
DOM NION DELIVERY FOR GSS	$/Dth	$4 2040	$4.2040	$4 2040	$4.2040	$4.2040	$4 2040	$4.2040	$4 2040	$4.2040	$4.2040	$4 2040	$4.2040
DOM NION DELIVERY FOR GSS CONV.	$/Dth	$4 2040	$4.2040	$4 2040	$4.2040	$4.2040	$4 2040	$4.2040	$4 2040	$4.2040	$4.2040	$4 2040	$4.2040
TENNESSEE DELIVERY FOR GSS	$/Dth	$8.4896	$8.4896	$8.4896	$8.4896	$8.4896	$8.4896	$8.4896	$8.4896	$8.4896	$8.4896	$8.4896	$8.4896
TENNESSEE DELIVERY FOR FSMA	$/Dth	$8.4896	$8.4896	$8.4896	$8.4896	$8.4896	$8.4896	$8.4896	$8.4896	$8.4896	$8.4896	$8.4896	$8.4896
TETCO DELIVERY FOR FSS-1	$/Dth	$5.0510	$5.0510	$5.0510	$5.0510	$5.0510	$5.0510	$5.0510	$5.0510	$5.0510	$5.0510	$5.0510	$5.0510
TETCO DELIVERY FOR GSS/GSS-TE	$/Dth	$5 3510	$5.3510	$5 3510	$5.3510	$5.3510	$5 3510	$5.3510	$5 3510	$5.3510	$5.3510	$5 3510	$5.3510
TETCO DELIVERY FOR GSS-TE	$/Dth	$6 5760	$6.5760	$6 5760	$6.5760	$6.5760	$6 5760	$6.5760	$6 5760	$6.5760	$6.5760	$6 5760	$6.5760
TETCO DELIVERY FOR GSS-TE	$/Dth	$6 8640	$6.8640	$6 8640	$6.8640	$6.8640	$6 8640	$6.8640	$6 8640	$6.8640	$6.8640	$6 8640	$6.8640
TETCO DELIVERY FOR GSS CONV.	$/Dth	$5.1790	$5.1790	$5.1790	$5.1790	$5.1790	$5.1790	$5.1790	$5.1790	$5.1790	$5.1790	$5.1790	$5.1790
SUPPLIER FIXED COST UNIT PRICES													
GDF SUEZ NSB CALL PAYMENT Winter	$/Dth	[redacted]											
GDF SUEZ NSB CALL PAYMENT Summer	$/Dth												
HESS PEAKING SUPPLY AT SALEM	$/Dth												
HESS PEAKING SUPPLY AT DRACUT	$/Dth												
REPSOL PEAK NG SUPPLY AT DRACUT	$/Dth												
								BILLING UNITS					
PIPELINE FIXED COST BILLING UNITS													
ALGONQU N AFT-E/AFT-1 DEMAND	Dth	87,285	87,285	87,285	87,285	87,285	87,285	87,285	87,285	87,285	87,285	87,285	87,285
ALGONQU N AFT-3 DEMAND	Dth	11,063	11,063	11,063	11,063	11,063	11,063	11,063	11,063	11,063	11,063	11,063	11,063
ALGONQU N AFT-ES/1S DEMAND	Dth	4,079	4,079	4,079	4,079	4,079	4,079	4,079	4,079	4,079	4,079	4,079	4,079
ALGONQU N HUBL NE DEMAND	Dth	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000
ALGONQU N HUBL NE DEMAND	Dth	500	500	500	500	500	500	500	500	500	500	500	500
ALGONQU N HUBL NE DEMAND	Dth	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500
ALGONQU N EAST TO WEST DEMAND	Dth	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
COLUMBIA FTS DEMAND	Dth	47,455	47,455	47,455	47,455	47,455	47,455	47,455	47,455	47,455	47,455	47,455	47,455
DOM NION FTNN DEMAND	Dth	537	537	537	537	537	537	537	537	537	537	537	537
IROQUOIS DEMAND	Dth	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012
NATIONAL FUEL DEMAND	Dth	1,177	1,177	1,177	1,177	1,177	1,177	1,177	1,177	1,177	1,177	1,177	1,177
TENNESSEE FT-A DEMAND ZONE 0 TO 6	Dth	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500
TENNESSEE FT-A DEMAND ZONE 1 TO 6	Dth	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500
TENNESSEE FT-A DEMAND ZONE 0 TO 6	Dth	6,022	6,022	6,022	6,022	6,022	6,022	6,022	6,022	6,022	6,022	6,022	6,022
TENNESSEE FT-A DEMAND ZONE 1 TO 6	Dth	13,313	13,313	13,313	13,313	13,313	13,313	13,313	13,313	13,313	13,313	13,313	13,313
TENNESSEE FT-A DEMAND ZONE 0 TO 6 CXN	Dth	11,600	11,600	11,600	11,600	11,600	11,600	11,600	11,600	11,600	11,600	11,600	11,600
TENNESSEE FT-A DEMAND DRACUT	Dth	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
TENNESSEE FT-A DEMAND ZONE 5 TO 6	Dth	2,067	2,067	2,067	2,067	2,067	2,067	2,067	2,067	2,067	2,067	2,067	2,067
TEXAS EASTERN CDS STX DEMAND M3	Dth	13,844	13,844	13,844	13,844	13,844	13,844	13,844	13,844	13,844	13,844	13,844	13,844
TEXAS EASTERN CDS WLA DEMAND M3	Dth	15,716	15,716	15,716	15,716	15,716	15,716	15,716	15,716	15,716	15,716	15,716	15,716
TEXAS EASTERN CDS ELA DEMAND M3	Dth	23,758	23,758	23,758	23,758	23,758	23,758	23,758	23,758	23,758	23,758	23,758	23,758
TEXAS EASTERN CDS ETX DEMAND M3	Dth	7,995	7,995	7,995	7,995	7,995	7,995	7,995	7,995	7,995	7,995	7,995	7,995
TEXAS EASTERN CDS 1-3 DEMAND M3	Dth	45,934	45,934	45,934	45,934	45,934	45,934	45,934	45,934	45,934	45,934	45,934	45,934
TEXAS EASTERN FTS DEMAND	Dth	537	537	537	537	537	537	537	537	537	537	537	537
TEXAS EASTERN SCT STX DEMAND M3	Dth	571	571	571	571	571	571	571	571	571	571	571	571
TEXAS EASTERN SCT WLA DEMAND M3	Dth	648	648	648	648	648	648	648	648	648	648	648	648
TEXAS EASTERN SCT ELA DEMAND M3	Dth	1,183	1,183	1,183	1,183	1,183	1,183	1,183	1,183	1,183	1,183	1,183	1,183
TEXAS EASTERN SCT ETX DEMAND M3	Dth	329	329	329	329	329	329	329	329	329	329	329	329
TEXAS EASTERN SCT 1-3 DEMAND M3	Dth	2,099	2,099	2,099	2,099	2,099	2,099	2,099	2,099	2,099	2,099	2,099	2,099
TEXAS EASTERN SCT STX DEMAND M2	Dth	401	401	401	401	401	401	401	401	401	401	401	401
TEXAS EASTERN SCT WLA DEMAND M2	Dth	455	455	455	455	455	455	455	455	455	455	455	455
TEXAS EASTERN SCT ELA DEMAND M2	Dth	831	831	831	831	831	831	831	831	831	831	831	831
TEXAS EASTERN SCT ETX DEMAND M2	Dth	231	231	231	231	231	231	231	231	231	231	231	231
TEXAS EASTERN SCT 1-2 DEMAND M2	Dth	1,474	1,474	1,474	1,474	1,474	1,474	1,474	1,474	1,474	1,474	1,474	1,474
TRANSCANADA DEMAND	Dth	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012
TRANSCO DEMAND ZONE 2 TO 6	Dth	4,140	4,278	4,278	3,864	4,278	4,140	4,278	4,140	4,278	4,278	4,140	4,278
TRANSCO DEMAND ZONE 3 TO 6.	Dth	90	93	93	84	93	90	93	90	93	93	90	93
TRANSCO DEMAND ZONE 6	Dth	37,200	38,440	38,440	34,720	38,440	37,200	38,440	37,200	38,440	38,440	37,200	38,440
UNION DEMAND	Dth	1,025	1,025	1,025	1,025	1,025	1,025	1,025	1,025	1,025	1,025	1,025	1,025

REDACTED

		NOV	DEC	JAN-13	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	
STORAGE FIXED COST BILLING UNITS														
COLUMBIA FSS DEMAND	Dth	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	
COLUMBIA FSS CAPACITY	Dth	203,957	203,957	203,957	203,957	203,957	203,957	203,957	203,957	203,957	203,957	203,957	203,957	
DOM NION GSS DEMAND	Dth	11,403	11,403	11,403	11,403	11,403	11,403	11,403	11,403	11,403	11,403	11,403	11,403	
DOM NION GSS CAPACITY	Dth	1,039,304	1,039,304	1,039,304	1,039,304	1,039,304	1,039,304	1,039,304	1,039,304	1,039,304	1,039,304	1,039,304	1,039,304	
DOM NION GSS-TE DEMAND	Dth	14,337	14,337	14,337	14,337	14,337	14,337	14,337	14,337	14,337	14,337	14,337	14,337	
DOM NION GSS-TE CAPACITY	Dth	1,376,324	1,376,324	1,376,324	1,376,324	1,376,324	1,376,324	1,376,324	1,376,324	1,376,324	1,376,324	1,376,324	1,376,324	
TENNESSEE FSMA DEMAND	Dth	21,169	21,169	21,169	21,169	21,169	21,169	21,169	21,169	21,169	21,169	21,169	21,169	
TENNESSEE FSMA CAPACITY	Dth	815,343	815,343	815,343	815,343	815,343	815,343	815,343	815,343	815,343	815,343	815,343	815,343	
TEXAS EASTERN SS-1 DEMAND	Dth	14,802	14,802	14,802	14,802	14,802	14,802	14,802	14,802	14,802	14,802	14,802	14,802	
TEXAS EASTERN SS-1 CAPACITY	Dth	103,336	103,336	103,336	103,336	103,336	103,336	103,336	103,336	103,336	103,336	103,336	103,336	
TEXAS EASTERN FSS-1 DEMAND	Dth	944	944	944	944	944	944	944	944	944	944	944	944	
TEXAS EASTERN FSS-1 CAPACITY	Dth	4,720	4,720	4,720	4,720	4,720	4,720	4,720	4,720	4,720	4,720	4,720	4,720	
STORAGE DELIVERY BILLING UNITS (DTH)														
ALGONQU N FOR TETCO SS-1	Dth	14,137	14,137	14,137	14,137	14,137	14,137	14,137	14,137	14,137	14,137	14,137	14,137	
ALGONQU N DELIVERY FOR FSS-1	Dth	944	944	944	944	944	944	944	944	944	944	944	944	
ALGONQU N SCT FOR SS-1	Dth	665	665	665	665	665	665	665	665	665	665	665	665	
ALGONQU N DELIVERY FOR GSS, GSS-TE,	Dth	11,739	11,739	11,739	11,739	11,739	11,739	11,739	11,739	11,739	11,739	11,739	11,739	
ALGONQU N SCT DELIVERY FOR GSS-TE	Dth	187	187	187	187	187	187	187	187	187	187	187	187	
ALGONQU N DELIVERY FOR GSS CONV	Dth	2,061	2,061	2,061	2,061	2,061	2,061	2,061	2,061	2,061	2,061	2,061	2,061	
ALGONQU N DELIVERY FOR FSS	Dth	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	
COLUMBIA DELIVERY FOR FSS	Dth	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	
DOMINION DELIVERY FOR GSS	Dth	5,324	5,324	5,324	5,324	5,324	5,324	5,324	5,324	5,324	5,324	5,324	5,324	
DOMINION DELIVERY FOR GSS CONV	Dth	2,061	2,061	2,061	2,061	2,061	2,061	2,061	2,061	2,061	2,061	2,061	2,061	
TENNESSEE DELIVERY FOR GSS	Dth	6,725	6,725	6,725	6,725	6,725	6,725	6,725	6,725	6,725	6,725	6,725	6,725	
TENNESSEE DELIVERY FOR FSMA	Dth	4,111	4,111	4,111	4,111	4,111	4,111	4,111	4,111	4,111	4,111	4,111	4,111	
TETCO DELIVERY FOR FSS-1	Dth	944	944	944	944	944	944	944	944	944	944	944	944	
TETCO DELIVERY FOR GSS/GSS-TE	Dth	6,377	6,377	6,377	6,377	6,377	6,377	6,377	6,377	6,377	6,377	6,377	6,377	
TETCO DELIVERY FOR GSS-TE	Dth	538	538	538	538	538	538	538	538	538	538	538	538	
TETCO DELIVERY FOR GSS-TE	Dth	5,011	5,011	5,011	5,011	5,011	5,011	5,011	5,011	5,011	5,011	5,011	5,011	
TETCO DELIVERY FOR GSS CONV	Dth	2,061	2,061	2,061	2,061	2,061	2,061	2,061	2,061	2,061	2,061	2,061	2,061	
SUPPLIER FIXED COST BILLING UNITS														
DISTRIGAS NSB CALL PAYMENT Winter	Dth	[redacted]												0
DISTRIGAS NSB CALL PAYMENT Summer	Dth													550,000
HESS PEAK NG SUPPLY AT SALEM	Dth													160,000
HESS PEAKING SUPPLY AT DRACUT	Dth													675,000
REPSOL PEAK NG SUPPLY AT DRACUT	Dth													1,815,000

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4436
Attachment EDA-2
Redacted
Page 12 of 17

REDACTED

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4436
Attachment EDA-2
Redacted
Page 13 of 17

TOTAL COST

		NOV	DEC	JAN-13	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
PIPELINE FIXED COST DOLLARS													
ALGONQU N AFT-E/AFT-1 DEMAND	$	$560,483	$560,483	$560,483	$560,483	$560,483	$560,483	$560,483	$560,483	$560,483	$560,483	$560,483	$560,483
ALGONQU N AFT-3 DEMAND	$	$118,987	$118,987	$118,987	$118,987	$118,987	$118,987	$118,987	$118,987	$118,987	$118,987	$118,987	$118,987
ALGONQU N AFT-ES/1S DEMAND	$	$10,477	$10,477	$10,477	$10,477	$10,477	$10,477	$10,477	$10,477	$10,477	$10,477	$10,477	$10,477
ALGONQU N HUBL NE DEMAND	$	$46,233	$46,233	$46,233	$46,233	$46,233	$46,233	$46,233	$46,233	$46,233	$46,233	$46,233	$46,233
ALGONQU N HUBL NE DEMAND	$	$3,498	$3,498	$3,498	$3,498	$3,498	$3,498	$3,498	$3,498	$3,498	$3,498	$3,498	$3,498
ALGONQU N HUBL NE DEMAND	$	$24,472	$24,472	$24,472	$24,472	$24,472	$24,472	$24,472	$24,472	$24,472	$24,472	$24,472	$24,472
ALGONQU N EAST TO WEST DEMAND	$	$84,341	$84,341	$84,341	$84,341	$84,341	$84,341	$84,341	$84,341	$84,341	$84,341	$84,341	$84,341
ALGONQU N EAST TO WEST AMA FEE	$	($14,750)	($14,750)	($14,750)	($14,750)	($14,750)	($14,750)	($14,750)	($14,750)	($14,750)	($14,750)	($14,750)	($14,750)
COLUMBIA FTS DEMAND	$	$271,822	$271,822	$271,822	$271,822	$271,822	$271,822	$271,822	$271,822	$271,822	$271,822	$271,822	$271,822
DOM NION FTNN DEMAND	$	$2,258	$2,258	$2,258	$2,258	$2,258	$2,258	$2,258	$2,258	$2,258	$2,258	$2,258	$2,258
IROQUOIS DEMAND	$	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676
NATIONAL FUEL DEMAND	$	$4,664	$4,664	$4,664	$4,664	$4,664	$4,664	$4,664	$4,664	$4,664	$4,664	$4,664	$4,664
TENNESSEE FT-A DEMAND ZONE 0 TO 6	$	$79,305	$79,305	$79,305	$79,305	$79,305	$79,305	$79,305	$79,305	$79,305	$79,305	$79,305	$79,305
TENNESSEE FT-A DEMAND ZONE 1 TO 6	$	$147,282	$147,282	$147,282	$147,282	$147,282	$147,282	$147,282	$147,282	$147,282	$147,282	$147,282	$147,282
TENNESSEE FT-A DEMAND ZONE 0 TO 6	$	$135,809	$135,809	$135,809	$135,809	$135,809	$135,809	$135,809	$135,809	$135,809	$135,809	$135,809	$135,809
TENNESSEE FT-A DEMAND ZONE 1 TO 6	$	$300,237	$300,237	$300,237	$300,237	$300,237	$300,237	$300,237	$300,237	$300,237	$300,237	$300,237	$300,237
TENNESSEE FT-A DEMAND ZONE 0 TO 6 CXN	$	$263,743	$263,743	$263,743	$263,743	$263,743	$263,743	$263,743	$263,743	$263,743	$263,743	$263,743	$263,743
TENNESSEE FT-A DEMAND DRACUT	$	$73,269	$73,269	$73,269	$73,269	$73,269	$73,269	$73,269	$73,269	$73,269	$73,269	$73,269	$73,269
TENNESSEE FT-A DEMAND ZONE 5 TO 6	$	$15,378	$15,378	$15,378	$15,378	$15,378	$15,378	$15,378	$15,378	$15,378	$15,378	$15,378	$15,378
TEXAS EASTERN CDS STX DEMAND M3	$	$94,181	$94,181	$94,181	$94,181	$94,181	$94,181	$94,181	$94,181	$94,181	$94,181	$94,181	$94,181
TEXAS EASTERN CDS WLA DEMAND M3	$	$44,382	$44,382	$44,382	$44,382	$44,382	$44,382	$44,382	$44,382	$44,382	$44,382	$44,382	$44,382
TEXAS EASTERN CDS ELA DEMAND M3	$	$56,401	$56,401	$56,401	$56,401	$56,401	$56,401	$56,401	$56,401	$56,401	$56,401	$56,401	$56,401
TEXAS EASTERN CDS ETX DEMAND M3	$	$17,493	$17,493	$17,493	$17,493	$17,493	$17,493	$17,493	$17,493	$17,493	$17,493	$17,493	$17,493
TEXAS EASTERN CDS 1-3 DEMAND M3	$	$471,375	$471,375	$471,375	$471,375	$471,375	$471,375	$471,375	$471,375	$471,375	$471,375	$471,375	$471,375
TEXAS EASTERN FTS DEMAND	$	$2,873	$2,873	$2,873	$2,873	$2,873	$2,873	$2,873	$2,873	$2,873	$2,873	$2,873	$2,873
TEXAS EASTERN SCT STX DEMAND M3	$	$1,554	$1,554	$1,554	$1,554	$1,554	$1,554	$1,554	$1,554	$1,554	$1,554	$1,554	$1,554
TEXAS EASTERN SCT WLA DEMAND M3	$	$732	$732	$732	$732	$732	$732	$732	$732	$732	$732	$732	$732
TEXAS EASTERN SCT ELA DEMAND M3	$	$1,124	$1,124	$1,124	$1,124	$1,124	$1,124	$1,124	$1,124	$1,124	$1,124	$1,124	$1,124
TEXAS EASTERN SCT ETX DEMAND M3	$	$288	$288	$288	$288	$288	$288	$288	$288	$288	$288	$288	$288
TEXAS EASTERN SCT 1-3 DEMAND M3	$	$8,616	$8,616	$8,616	$8,616	$8,616	$8,616	$8,616	$8,616	$8,616	$8,616	$8,616	$8,616
TEXAS EASTERN SCT STX DEMAND M2	$	$1,091	$1,091	$1,091	$1,091	$1,091	$1,091	$1,091	$1,091	$1,091	$1,091	$1,091	$1,091
TEXAS EASTERN SCT WLA DEMAND M2	$	$514	$514	$514	$514	$514	$514	$514	$514	$514	$514	$514	$514
TEXAS EASTERN SCT ELA DEMAND M2	$	$789	$789	$789	$789	$789	$789	$789	$789	$789	$789	$789	$789
TEXAS EASTERN SCT ETX DEMAND M2	$	$202	$202	$202	$202	$202	$202	$202	$202	$202	$202	$202	$202
TEXAS EASTERN SCT 1-2 DEMAND M2	$	$4,640	$4,640	$4,640	$4,640	$4,640	$4,640	$4,640	$4,640	$4,640	$4,640	$4,640	$4,640
TRANSCANADA DEMAND	$	$9,434	$9,748	$9,748	$8,805	$9,748	$9,434	$9,748	$9,434	$9,748	$9,748	$9,434	$9,748
TRANSCO DEMAND ZONE 2 TO 6	$	$2,295	$2,372	$2,372	$2,142	$2,372	$2,295	$2,372	$2,295	$2,372	$2,372	$2,295	$2,372
TRANSCO DEMAND ZONE 3 TO 6.	$	$47	$48	$48	$44	$48	$47	$48	$47	$48	$48	$47	$48
TRANSCO DEMAND ZONE 6	$	$5,474	$5,657	$5,657	$5,109	$5,657	$5,474	$5,657	$5,474	$5,657	$5,657	$5,474	$5,657
UNION DEMAND	$	$2,454	$2,536	$2,536	$2,290	$2,536	$2,454	$2,536	$2,454	$2,536	$2,536	$2,454	$2,536
WESTERLY LATERAL (Yankee)	$	[redacted]											
TOTAL PIPELINE DEMAND COSTS													
STORAGE FIXED COST DOLLARS													
COLUMBIA FSS DEMAND	$	$3,840	$3,840	$3,840	$3,840	$3,840	$3,840	$3,840	$3,840	$3,840	$3,840	$3,840	$3,840
COLUMBIA FSS CAPACITY	$	$5,894	$5,894	$5,894	$5,894	$5,894	$5,894	$5,894	$5,894	$5,894	$5,894	$5,894	$5,894
DOMINION GSS DEMAND	$	$21,025	$21,025	$21,025	$21,025	$21,025	$21,025	$21,025	$21,025	$21,025	$21,025	$21,025	$21,025
DOM NION GSS CAPACITY	$	$15,070	$15,070	$15,070	$15,070	$15,070	$15,070	$15,070	$15,070	$15,070	$15,070	$15,070	$15,070
DOMINION GSS-TE DEMAND	$	$26,435	$26,435	$26,435	$26,435	$26,435	$26,435	$26,435	$26,435	$26,435	$26,435	$26,435	$26,435
DOM NION GSS-TE CAPACITY	$	$19,957	$19,957	$19,957	$19,957	$19,957	$19,957	$19,957	$19,957	$19,957	$19,957	$19,957	$19,957
TENNESSEE FSMA DEMAND	$	$32,600	$32,600	$32,600	$32,600	$32,600	$32,600	$32,600	$32,600	$32,600	$32,600	$32,600	$32,600
TENNESSEE FSMA CAPACITY	$	$17,204	$17,204	$17,204	$17,204	$17,204	$17,204	$17,204	$17,204	$17,204	$17,204	$17,204	$17,204
TEXAS EASTERN SS-1 DEMAND	$	$78,924	$78,924	$78,924	$78,924	$78,924	$78,924	$78,924	$78,924	$78,924	$78,924	$78,924	$78,924
TEXAS EASTERN SS-1 CAPACITY	$	$13,361	$13,361	$13,361	$13,361	$13,361	$13,361	$13,361	$13,361	$13,361	$13,361	$13,361	$13,361
TEXAS EASTERN FSS-1 DEMAND	$	$845	$845	$845	$845	$845	$845	$845	$845	$845	$845	$845	$845
TEXAS EASTERN FSS-1 CAPACITY	$	$610	$610	$610	$610	$610	$610	$610	$610	$610	$610	$610	$610
NATIONAL GRID LNG TANK LEASE PAYMENTS	$	[redacted]											
TOTAL STORAGE DEMAND COSTS	$												

REDACTED

		NOV	DEC	JAN-13	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total
STORAGE DELIVERY FIXED COSTS														
ALGONQU N FOR TETCO SS-1	$	$90,778	$90,778	$90,778	$90,778	$90,778	$90,778	$90,778	$90,778	$90,778	$90,778	$90,778	$90,778	
ALGONQU N DELIVERY FOR FSS-1	$	$6,062	$6,062	$6,062	$6,062	$6,062	$6,062	$6,062	$6,062	$6,062	$6,062	$6,062	$6,062	
ALGONQU N SCT FOR SS-1	$	$1,708	$1,708	$1,708	$1,708	$1,708	$1,708	$1,708	$1,708	$1,708	$1,708	$1,708	$1,708	
ALGONQU N DELIVERY FOR GSS, GSS-TE,	$	$75,380	$75,380	$75,380	$75,380	$75,380	$75,380	$75,380	$75,380	$75,380	$75,380	$75,380	$75,380	
ALGONQU N SCT DELIVERY FOR GSS-TE	$	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	
ALGONQU N DELIVERY FOR GSS CONV	$	$20,168	$20,168	$20,168	$20,168	$20,168	$20,168	$20,168	$20,168	$20,168	$20,168	$20,168	$20,168	
ALGONQU N DELIVERY FOR FSS	$	$16,342	$16,342	$16,342	$16,342	$16,342	$16,342	$16,342	$16,342	$16,342	$16,342	$16,342	$16,342	
COLUMBIA DELIVERY FOR FSS	$	$14,145	$14,145	$14,145	$14,145	$14,145	$14,145	$14,145	$14,145	$14,145	$14,145	$14,145	$14,145	
DOM NION DELIVERY FOR GSS	$	$22,382	$22,382	$22,382	$22,382	$22,382	$22,382	$22,382	$22,382	$22,382	$22,382	$22,382	$22,382	
DOM NION DELIVERY FOR GSS CONV	$	$8,664	$8,664	$8,664	$8,664	$8,664	$8,664	$8,664	$8,664	$8,664	$8,664	$8,664	$8,664	
TENNESSEE DELIVERY FOR GSS	$	$57,093	$57,093	$57,093	$57,093	$57,093	$57,093	$57,093	$57,093	$57,093	$57,093	$57,093	$57,093	
TENNESSEE DELIVERY FOR FSMA	$	$34,901	$34,901	$34,901	$34,901	$34,901	$34,901	$34,901	$34,901	$34,901	$34,901	$34,901	$34,901	
TETCO DELIVERY FOR FSS-1	$	$4,768	$4,768	$4,768	$4,768	$4,768	$4,768	$4,768	$4,768	$4,768	$4,768	$4,768	$4,768	
TETCO DELIVERY FOR GSS/GSS-TE	$	$34,123	$34,123	$34,123	$34,123	$34,123	$34,123	$34,123	$34,123	$34,123	$34,123	$34,123	$34,123	
TETCO DELIVERY FOR GSS-TE	$	$3,538	$3,538	$3,538	$3,538	$3,538	$3,538	$3,538	$3,538	$3,538	$3,538	$3,538	$3,538	
TETCO DELIVERY FOR GSS-TE	$	$34,396	$34,396	$34,396	$34,396	$34,396	$34,396	$34,396	$34,396	$34,396	$34,396	$34,396	$34,396	
TETCO DELIVERY FOR GSS CONV	$	$10,674	$10,674	$10,674	$10,674	$10,674	$10,674	$10,674	$10,674	$10,674	$10,674	$10,674	$10,674	
TOTAL STORAGE DELIVERY DEMAND COSTS		**$435,601**	**$435,601**	**$435,601**	**$435,601**	**$435,601**	**$435,601**	**$435,601**	**$435,601**	**$435,601**	**$435,601**	**$435,601**	**$435,601**	**$5,227,215**
DISTRIGAS NSB CALL PAYMENT Winter	$	[redacted]												
DISTRIGAS NSB CALL PAYMENT Summer	$													
HESS PEAKING SUPPLY AT SALEM	$													
HESS PEAKING SUPPLY AT DRACUT	$													
REPSOL PEAK NG SUPPLY AT DRACUT	$													
TOTAL SUPPLIER DEMAND COSTS														
TOTAL ALL DEMAND COSTS	$	**$3,750,236**	**$4,105,893**	**$4,104,542**	**$4,091,321**	**$4,104,542**	**$4,377,456**	**$4,378,113**	**$4,377,456**	**$4,378,113**	**$4,378,113**	**$4,377,456**	**$4,378,113**	**$50,801,357**
		NOV	**DEC**	**JAN-13**	**FEB**	**MAR**	**APR**	**MAY**	**JUN**	**JUL**	**AUG**	**SEP**	**OCT**	**Total**
Marketer Demand Charge Credits														
Capacity Release Volumes as of August 1, 2013														
Tennessee	Dth	9,499	9,499	9,499	9,499	9,499	9,499	9,499	9,499	9,499	9,499	9,499	9,499	
Algonquin	Dth	1,568	1,568	1,568	1,568	1,568	1,568	1,568	1,568	1,568	1,568	1,568	1,568	
Tetco STX/AGT	Dth	3,324	3,324	3,324	3,324	3,324	3,324	3,324	3,324	3,324	3,324	3,324	3,324	
Tetco WLA/AGT	Dth	8,425	8,425	8,425	8,425	8,425	8,425	8,425	8,425	8,425	8,425	8,425	8,425	
Tetco ELA/AGT	Dth	6,271	6,271	6,271	6,271	6,271	6,271	6,271	6,271	6,271	6,271	6,271	6,271	
Columbia/AGT	Dth	31	31	31	31	31	31	31	31	31	31	31	31	
Total		**29,118**	**29,118**	**29,118**	**29,118**	**29,118**	**29,118**	**29,118**	**29,118**	**29,118**	**29,118**	**29,118**	**29,118**	
S¸stem Wei¸hted Avera¸e cost ¸ er MMBtu		**$16.9504**	**$16.9504**	**$16.9504**	**$16.9504**	**$16.9504**	**$16.9504**	**$16.9504**	**$16.9504**	**$16.9504**	**$16.9504**	**$16.9504**	**$16.9504**	
Total Demand Charge Credit		**$493,562**	**$493,562**	**$493,562**	**$493,562**	**$493,562**	**$493,562**	**$493,562**	**$493,562**	**$493,562**	**$493,562**	**$493,562**	**$493,562**	**$5,922,744**
Demand Costs Net of Releases to Marketers	$	**$3,256,674**	**$3,612,331**	**$3,610,980**	**$3,597,759**	**$3,610,980**	**$3,883,894**	**$3,884,551**	**$3,883,894**	**$3,884,551**	**$3,884,551**	**$3,883,894**	**$3,884,551**	**$44,878,613**
TOTAL PIPELINE DEMANDS	$	[redacted]												
TOTAL STORAGE FACILITIES DEMANDS	$													
TOTAL STORAGE DELIVERY DEMANDS	$	**$435,601**	**$435,601**	**$435,601**	**$435,601**	**$435,601**	**$435,601**	**$435,601**	**$435,601**	**$435,601**	**$435,601**	**$435,601**	**$435,601**	**$5,227,215**
TOTAL SUPPLIER DEMANDS	$	[redacted]												
Total All Demands	$	**$3,750,236**	**$4,105,893**	**$4,104,542**	**$4,091,321**	**$4,104,542**	**$4,377,456**	**$4,378,113**	**$4,377,456**	**$4,378,113**	**$4,378,113**	**$4,377,456**	**$4,378,113**	**$50,801,357**
Marketer Release Credits	$	**$493,562**	**$493,562**	**$493,562**	**$493,562**	**$493,562**	**$493,562**	**$493,562**	**$493,562**	**$493,562**	**$493,562**	**$493,562**	**$493,562**	**$5,922,744**
NGPMP Credit		**$575,000**	**$575,000**	**$575,000**	**$575,000**	**$575,000**	**$575,000**	**$575,000**	**$575,000**	**$575,000**	**$575,000**	**$575,000**	**$575,000**	**$6,900,000**
Demand Net of Releases	$	**$2,681,674**	**$3,037,331**	**$3,035,980**	**$3,022,759**	**$3,035,980**	**$3,308,894**	**$3,309,551**	**$3,308,894**	**$3,309,551**	**$3,309,551**	**$3,308,894**	**$3,309,551**	**$37,978,613**

Storage Product Cost

	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
WACOG INJECTIONS	$3.807	$4.630	$4.958	$4.621	$4.168	$3.916	$3.889	$3.926	$3.994	$4.122	$3.938	$3.929
Injection cost	$0.022	$0.022	$0.022	$0.022	$0 022	$0.022	$0.022	$0.022	$0.022	$0.022	$0.022	$0.022
Total injection cost	$3.830	$4.653	$4.980	$4.644	$4.190	$3.938	$3.912	$3.948	$4.016	$4.144	$3.960	$3.951

COMBINED STORAGE	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	
Beginning Inv Vol	4,495,011	4,495,011	4,418,111	3,391,111	2,486,411	2,340,311	2,971,411	3,433,011	3,650,211	3,868,811	4,244,511	4,343,611	
Vol Withdrawn	0	76,900	1,027,000	904,700	146,100	0	0	0	0	0	0	0	2,154,700
Vol Injected	0	0	0	0	0	631,100	461,600	217,200	218,600	375,700	99,100	151,500	2,154,800
Begining Inv $ (virtual)	$18,117,591	$18,117,591	$17,807,638	$13,668,212	$10,021,728	$9,432,858	$11,918,109	$13,723,792	$14,581,322	$15,459,233	$17,016,140	$17,408,579	
$ Withdrawn (1)	$0	$338,286	$4,517,807	$3,979,806	$642,699	$0	$0	$0	$0	$0	$0	$0	$9,478,598
$ Injected	$0	$0	$0	$0	$0	$2,485,251	$1,805,683	$857,531	$877,911	$1,556,906	$392,439	$598,584	$8,574,305
Ending Vol	4,495,011	4,418,111	3,391,111	2,486,411	2,340,311	2,971,411	3,433,011	3,650,211	3,868,811	4,244,511	4,343,611	4,495,111	
Ending $	$18,117,591	$17,807,638	$13,668,212	$10,021,728	$9,432,858	$11,918,109	$13,723,792	$14,581,322	$15,459,233	$17,016,140	$17,408,579	$18,007,163	
Avg $/Mmbtu	$4.0306	$4.0306	$4.0306	$4.0306	$4.0306	$4.0109	$3.9976	$3.9947	$3 9959	$4.0090	$4.0079	$4.0059	
Withdrawal cost	**$0**	**$1,006**	**$26,489**	**$24,071**	**$1,391**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$52,957**
Transportation cost	**$0**	**$5,918**	**$52,152**	**$45,900**	**$15,744**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$119,714**
Costs allocated to fuel	**$0**	**$6,449**	**$112,454**	**$99,153**	**$9,270**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$227,326**
Storage value Less fuel	**$0**	**$331,837**	**$4,405,354**	**$3,880,653**	**$633,428**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$9,251,272**
Delivered Volumes	0	75,300	999,100	880,100	143,800	0	0	0	0	0	0	0	2,098,300
Hedge Amortization	$0	$28,333	$378,381	$333,322	$53,828	$0	$0	$0	$0	$0	$0	$0	$793,864

- amor ization of hedges on injection gas
$793,864
(1) Includes Hedge Amortization
2,154,700 Withdrawal

REDACTED

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4436
Attachment EDA-2
Redacted
Page 15 of 17

REDACTED

The Narragansett Electric Company
d/b/a National Grid
Docket No 4436
Attachment EDA-2
Redacted
Page 16 of 17

Storage Withdrawal variable costs
2013-2014 GCR Storage estimate

Storage Withdrawals at Facility Dth	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	
TENN_501	0	27,700	282,400	170,100	94,900	0	0	0	0	0	0	0	575,100
GSS 300170	0	0	0	0	0	0	0	0	0	0	0	0	0
GSS 300168	0	9,900	27,000	4,300	1,500	0	0	0	0	0	0	0	42,700
GSS 300171	0	0	69,900	42,100	0	0	0	0	0	0	0	0	112,000
GSS-TE 600045	0	0	170,700	154,200	0	0	0	0	0	0	0	0	324,900
TETCO_400515	0	0	14,078	0	0	0	0	0	0	0	0	0	14,078
TETCO_400221	0	0	287,496	287,496	0	0	0	0	0	0	0	0	574,992
TETCO 400185	0	0	0	0	0	0	0	0	0	0	0	0	0
GSS 300169	0	0	55,600	52,300	0	0	0	0	0	0	0	0	107,900
COL FSS 9630	0	35,900	78,900	53,700	15,900	0	0	0	0	0	0	0	184,400
TENN_62918	0	3,400	31,300	131,000	33,800	0	0	0	0	0	0	0	199,500
TOTAL	0	76,900	1,017,374	895,196	146,100	0	0	0	0	0	0	0	2,135,570

STORAGE WITHDRAWAL PRICES	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Tennessee Withdrawal	$0.0087	$0.0087	$0.0087	$0.0087	$0.0087	$0.0087	$0.0087	$0.0087	$0.0087	$0.0087	$0.0087	$0.0087
Dominion GSS Withdrawal	$0.0188	$0.0188	$0.0188	$0.0188	$0.0188	$0.0188	$0.0188	$0.0188	$0.0188	$0.0188	$0.0188	$0.0188
Dominion GSS-TE Withdrawal	$0.0248	$0.0248	$0.0248	$0.0248	$0.0248	$0.0248	$0.0248	$0.0248	$0.0248	$0.0248	$0.0248	$0.0248
Tetco SS-1 Withdrawal	$0.0520	$0.0520	$0.0520	$0.0520	$0.0520	$0.0520	$0.0520	$0.0520	$0.0520	$0.0520	$0.0520	$0.0520
Tetco FSS-1 Withdrawal	$0.0357	$0.0357	$0.0357	$0.0357	$0.0357	$0.0357	$0.0357	$0.0357	$0.0357	$0.0357	$0.0357	$0.0357
Columbia Withdrawal	$0.0153	$0.0153	$0.0153	$0.0153	$0.0153	$0.0153	$0.0153	$0.0153	$0.0153	$0.0153	$0.0153	$0.0153

Withdrawal Costs	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Tennessee Withdrawal	$0	$271	$2,729	$2,620	$1,120	$0	$0	$0	$0	$0	$0	$0	$6,739
Dominion GSS Withdrawal	$0	$186	$2,867	$1,856	$28	$0	$0	$0	$0	$0	$0	$0	$4,937
Dominion GSS-TE Withdrawal	$0	$0	$4,233	$3,824	$0	$0	$0	$0	$0	$0	$0	$0	$8,058
Tetco SS-1 Withdrawal	$0	$0	$14,950	$14,950	$0	$0	$0	$0	$0	$0	$0	$0	$29,900
Tetco FSS-1 Withdrawal	$0	$0	$503	$0	$0	$0	$0	$0	$0	$0	$0	$0	$503
Columbia Withdrawal	$0	$549	$1,207	$822	$243	$0	$0	$0	$0	$0	$0	$0	$2,821
Total	$0	$1,006	$26,489	$24,071	$1,391	$0	$0	$0	$0	$0	$0	$0	$52,957

Storage Withdrawals at Gate Dth	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	
TENN_501	0	27,400	278,500	167,800	93,600	0	0	0	0	0	0	0	567,300
GSS 300170	0	0	0	-	-	-	-	-	-	-	-	-	-
GSS 300168	0	9,800	26,600	4,200	1,500	0	0	0	0	0	0	0	42,100
GSS 300171	0	0	68,300	41,200	0	0	0	0	0	0	0	0	109,500
GSS-TE 600045	0	0	166,400	150,300	0	0	0	0	0	0	0	0	316,700
TETCO_400515	0	0	13,300	0	0	0	0	0	0	0	0	0	13,300
TETCO_400221	0	0	285,000	285,000	0	0	0	0	0	0	0	0	570,000
TETCO 400185	0	0	0	0	0	0	0	0	0	0	0	0	0
GSS 300169	0	0	53,500	50,300	0	0	0	0	0	0	0	0	103,800
COL FSS 9630	0	34,800	76,600	52,100	15,400	0	0	0	0	0	0	0	178,900
TENN_62918	0	3,300	30,900	129,200	33,300	0	0	0	0	0	0	0	196,700
TOTAL	0	75,300	999,100	880,100	143,800	0	0	0	0	0	0	0	2,098,300

Storage Transportation Prices	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Tennessee Transportation	$0.1188	$0.1188	$0.1188	$0.1188	$0.1188	$0.1188	$0.1188	$0.1188	$0.1188	$0.1188	$0.1188	$0.1188
Dominion Trans on Tetco/AGT	$0.0148	$0.0148	$0.0148	$0.0148	$0.0148	$0.0148	$0.0148	$0.0148	$0.0148	$0.0148	$0.0148	$0.0148
Dominion Trans on DTI/Tetco/AGT	$0.0382	$0.0382	$0.0382	$0.0382	$0.0382	$0.0382	$0.0382	$0.0382	$0.0382	$0.0382	$0.0382	$0.0382
Dominion Trans on Tennessee	$0.1188	$0.1188	$0.1188	$0.1188	$0.1188	$0.1188	$0.1188	$0.1188	$0.1188	$0.1188	$0.1188	$0.1188
Dominion Trans on DTI/Tennessee	$0.1422	$0.1422	$0.1422	$0.1422	$0.1422	$0.1422	$0.1422	$0.1422	$0.1422	$0.1422	$0.1422	$0.1422
Tetco SS-1 Trans	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130
Tetco FSS-1 Trans	$0.0434	$0.0434	$0.0434	$0.0434	$0.0434	$0.0434	$0.0434	$0.0434	$0.0434	$0.0434	$0.0434	$0.0434
Columbia Trans	$0.0318	$0.0318	$0.0318	$0.0318	$0.0318	$0.0318	$0.0318	$0.0318	$0.0318	$0.0318	$0.0318	$0.0318

Storage Transportation Costs	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Tennessee Transportation	$0	$3,647	$36,757	$35,284	$15,076	$0	$0	$0	$0	$0	$0	$0	$90,763
Dominion Trans on Tetco/AGT	$0	$0	$3,474	$2,834	$0	$0	$0	$0	$0	$0	$0	$0	$6,308
Dominion Trans on DTI/Tetco/AGT	$0	$0	$2,044	$1,921	$0	$0	$0	$0	$0	$0	$0	$0	$3,965
Dominion Trans on Tennseess	$0	$1,164	$3,160	$499	$178	$0	$0	$0	$0	$0	$0	$0	$5,001
Dominion Trans on DTI/Tennessee	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Tetco SS-1 Trans	$0	$0	$3,705	$3,705	$0	$0	$0	$0	$0	$0	$0	$0	$7,410
Tetco FSS-1 Trans	$0	$0	$577	$0	$0	$0	$0	$0	$0	$0	$0	$0	$577
Columbia Trans	$0	$1,107	$2,436	$1,657	$490	$0	$0	$0	$0	$0	$0	$0	$5,689
Total	$0	$5,918	$52,152	$45,900	$15,744	$0	$0	$0	$0	$0	$0	$0	$119,714
Total Variable	$0	$6,924	$78,641	$69,971	$17,135	$0	$0	$0	$0	$0	$0	$0	$172,670

LNG Estimate for 2013 - 2014

NATIONAL GRID - RI SERVICE AREA
NOVEMBER 2013 - OCTOBER 2014

REDACTED

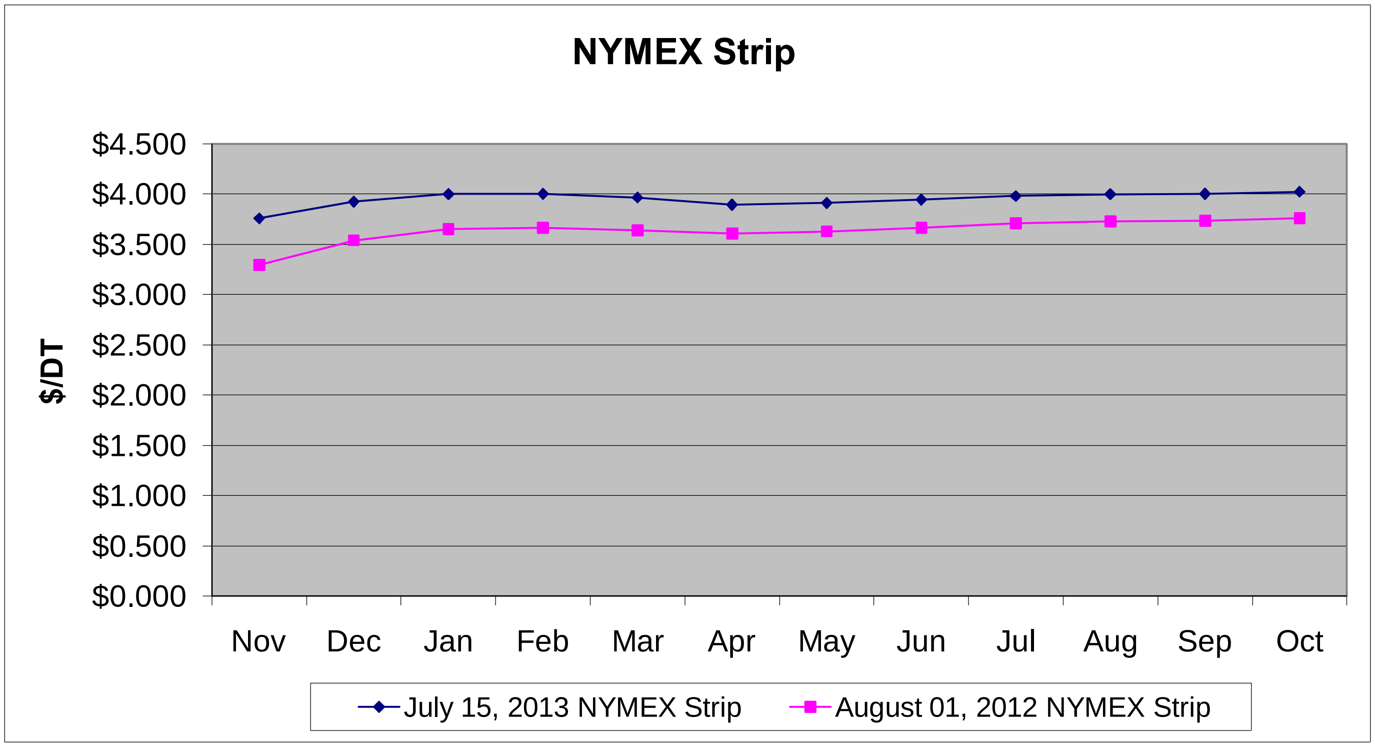
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
07/15/2013 NYMEX	$3.761	$3.925	$4.000	$4.002	$3.966	$3.895	$3.912	$3.945	$3.980	$3.999	$4.002	$4.022	
Trucking	[redacted]												
Basis NSB contract - Winter	[redacted]												
Delivered Cost NSB - Winter													
Basis NSB contract - Summer	[redacted]												
Delivered Cost NSB - Summer													
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	
Combined LNG Inv													
Beginning Inv Vol	888,000	869,200	849,700	634,000	616,400	596,900	578,100	713,600	694,800	675,300	655,800	787,000	
Vol Injected - winter	0	0	0	0	0	0	0	0	0	0	0	0	0
Vol Injected - summer	0	0	0	0	0	0	155,000	0	0	0	150,000	120,500	425,500
Vol Withdrawn	18,800	19,500	215,700	17,600	19,500	18,800	19,500	18,800	19,500	19,500	18,800	19,500	425,500
$ Begining Inv 11/1/13 = $5.6975	$5,059,380	$4,952,267	$4,841,166	$3,612,215	$3,511,939	$3,400,838	$3,293,725	$3,978,859	$3,874,034	$3,765,307	$3,656,580	$4,339,856	
$ Injected	$0	$0	$0	$0	$0	$0	$796,235	$0	$0	$0	$788,100	$636,722	$2,221,057
$ Withdrawn	$107,113	$111,101	$1,228,951	$100,276	$111,101	$107,113	$111,101	$104,824	$108,727	$108,727	$104,824	$107,531	$2,411,391
Ending Vol	869,200	849,700	634,000	616,400	596,900	578,100	713,600	694,800	675,300	655,800	787,000	888,000	
Ending $	$4,952,267	$4,841,166	$3,612,215	$3,511,939	$3,400,838	$3,293,725	$3,978,859	$3,874,034	$3,765,307	$3,656,580	$4,339,856	$4,869,046	
Avg $/Dth	[redacted]												
Newport													
Newport LNG Vol Vapor	0	0	0	0	0	0	0	0	0	0	0	0	
Avg $/Dth	[redacted]												
Total cost	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Total All LNG Costs	**$107,113**	**$111,101**	**$1,228,951**	**$100,276**	**$111,101**	**$107,113**	**$111,101**	**$104,824**	**$108,727**	**$108,727**	**$104,824**	**$107,531**	**$2,411,391**

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4436
Attachment EDA-2
Redacted
Page 17 of 17

Attachment EDA-3

Attachment EDA-3
NYMEX Strip Comparison

	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
August 01, 2012 NYMEX Strip	$3.297	$3.540	$3.653	$3.664	$3.637	$3.607	$3.629	$3.665	$3.708	$3.729	$3.734	$3.762
July 15, 2013 NYMEX Strip	$3.761	$3.925	$4.000	$4.002	$3.966	$3.895	$3.912	$3.945	$3.980	$3.999	$4.002	$4.022



The Narragansett Electric Company
d/b/a National Grid
Docket No. 4436
Attachment EDA-3
Page 1 of 1

Attachment EDA-4
REDACTED

Attachment EDA-4
Assignment of Pipeline Capacity – CONFIDENTIAL Information Redacted

REDACTED

PRELIMINARY **PRELIMINARY**

12 Month Forward Pricing

National Grid
Summary of Transportation Capacity Release
Pipeline Path Availability and Pricing
November 2013 - October 2014

Path to City Gate	As of 8/1/13 Existing Releases	Total Available	Remaining Available	Cost per Dth	New Credit or Surcharge	Old Credit or Surcharge
Company Weighted Average				**$0.9383**		
Tennessee Zone 1	9,499	9,500	1	$1.1663	($0.2280)	($0.2866)
Algonquin @ Lambertville, NJ	1,568	2,714	1,146	$0.2744	$0.6639	$0.3042
Texas Eastern - South Texas Algonquin @ Lambertville, NJ	3,324	4,044	720	$1.2195	($0.2812)	($0.4758)
Texas Eastern - West La Algonquin @ Lambertville, NJ	8,425	8,500	75	$1.0264	($0.0881)	($0.2696)
Texas Eastern - East La Algonquin @ Lambertville, NJ	6,271	6,500	229	$0.9245	$0.0138	($0.1583)
Columbia (Maumee/Downington) at 5:1 ratio*	31	1,500	1,469	$0.3702	$0.5681	$0.3270
Totals:	29,118	32,758	3,640			

* Note: Marketers selecting this path are assigned 5/6 of the amount selected at the Maumee, Ohio receipt point into Columbia and 1/6 at the Downington, Pa. Receipt into Columbia.

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4436
Attachment EDA-4
Redacted
Page 1 of 18

REDACTED

Gas Year 2013 - 2014
TEXAS EASTERN SOUTH TEXAS SUPPLY PATH COST MATRIX
CITY GATE DELIVERED MDQ = 4,044

		NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	TOTAL
UNIT PRICING														
FIXED														
TETCO STX SUPPLY ZONE DEMAND	$/Dth	$6.803	$6.803	$6.803	$6 803	$6 803	$6 803	$6 803	$6 803	$6.803	$6.803	$6.803	$6.803	
TECCO WLA SUPPLY ZONE DEMAND	$/Dth	$2.824	$2.824	$2.824	$2 824	$2 824	$2 824	$2 824	$2 824	$2.824	$2.824	$2.824	$2.824	
TETCO ELA SUPPLY ZONE DEMAND	$/Dth	$2.374	$2.374	$2.374	$2 374	$2 374	$2 374	$2 374	$2 374	$2.374	$2.374	$2.374	$2.374	
TETCO M1 TO M3 DEMAND	$/Dth	$10.262	$10.262	$10.262	$10 262	$10 262	$10 262	$10 262	$10 262	$10.262	$10.262	$10.262	$10.262	
ALGONQUIN AFT-E DEMAND	$/Dth	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	
VARIABLE														
TETCO USAGE STX TO M3	$/Dth	$0.063	$0.063	$0.063	$0.063	$0.063	$0.063	$0.063	$0.063	$0.063	$0.063	$0.063	$0.063	
ALGONQUIN USAGE	$/Dth	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	
07/15/2013 NYMEX	$/Dth	$3.761	$3.925	$4.000	$4.002	$3 966	$3 895	$3 912	$3 945	$3.980	$3.999	$4.002	$4.022	
SUPPLY AREA BASIS	$/Dth	($0.073)	($0.087)	($0.092)	($0.092)	($0.080)	($0.087)	($0.090)	($0.077)	($0.065)	($0.063)	($0.075)	($0.098)	
NET COST AFTER BASIS	$/Dth	$3.688	$3.838	$3.908	$3 910	$3 886	$3 808	$3 822	$3 868	$3.915	$3.936	$3.927	$3.924	
BILLING UNITS														
FIXED														
TETCO STX SUPPLY ZONE DEMAND	$/Dth	4,082	4,089	4,089	4,089	4,089	4,082	4,082	4,082	4,082	4,082	4,082	4,082	
TECCO WLA SUPPLY ZONE DEMAND	$/Dth	4,082	4,089	4,089	4,089	4,089	4,082	4,082	4,082	4,082	4,082	4,082	4,082	
TETCO ELA SUPPLY ZONE DEMAND	$/Dth	4,082	4,089	4,089	4,089	4,089	4,082	4,082	4,082	4,082	4,082	4,082	4,082	
TETCO M1 TO M3 DEMAND	$/Dth	4,082	4,089	4,089	4,089	4,089	4,082	4,082	4,082	4,082	4,082	4,082	4,082	
ALGONQUIN AFT-E DEMAND	$/Dth	4,044	4,044	4,044	4,044	4,044	4,044	4,044	4,044	4,044	4,044	4,044	4,044	48,528
VARIABLE														
PURCHASE VOLUMES	Dth	129,450	135,252	135,252	122,163	135,252	129,450	133,765	129,450	133,765	133,765	129,450	133,765	1,580,778
TETCO USAGE STX TO M3	Dth	122,447	126,758	126,758	114,491	126,758	122,447	126,528	122,447	126,528	126,528	122,447	126,528	1,490,665
ALGONQUIN USAGE	Dth	121,320	125,364	125,364	113,232	125,364	121,320	125,364	121,320	125,364	125,364	121,320	125,364	1,476,060
DELIVERED VOLUMES	Dth	121,320	125,364	125,364	113,232	125,364	121,320	125,364	121,320	125,364	125,364	121,320	125,364	1,476,060
FUEL USE %														
TETCO STX TO M3 FUEL	%	5.41%	6.28%	6.28%	6.28%	6.28%	5.41%	5.41%	5.41%	5.41%	5.41%	5.41%	5.41%	
ALGONQUIN AFT-E FUEL	%	0.92%	1.10%	1.10%	1.10%	1.10%	0 92%	0 92%	0 92%	0 92%	0.92%	0.92%	0.92%	
TRANSPORTATION COST														
FIXED														
TETCO STX SUPPLY ZONE DEMAND	$	$27,767	$27,817	$27,817	$27,817	$27,817	$27,767	$27,767	$27,767	$27,767	$27,767	$27,767	$27,767	$333,404
TECCO WLA SUPPLY ZONE DEMAND	$	$11,526	$11,547	$11,547	$11,547	$11,547	$11,526	$11,526	$11,526	$11,526	$11,526	$11,526	$11,526	$138,399
TETCO ELA SUPPLY ZONE DEMAND	$	$9,690	$9,707	$9,707	$9,707	$9,707	$9,690	$9,690	$9,690	$9,690	$9,690	$9,690	$9,690	$116,346
TETCO M1 TO M3 DEMAND	$	$41,885	$41,961	$41,961	$41,961	$41,961	$41,885	$41,885	$41,885	$41,885	$41,885	$41,885	$41,885	$502,923
ALGONQUIN AFT-E DEMAND	$	$25,968	$25,968	$25,968	$25,968	$25,968	$25,968	$25,968	$25,968	$25,968	$25,968	$25,968	$25,968	$311,613
VARIABLE														
TETCO USAGE STX TO M3	$	$7,665	$7,935	$7,935	$7,167	$7,935	$7,665	$7,921	$7,665	$7,921	$7,921	$7,665	$7,921	$93,316
ALGONQUIN USAGE	$	$1,577	$1,630	$1,630	$1,472	$1,630	$1,577	$1,630	$1,577	$1,630	$1,630	$1,577	$1,630	$19,189
PURCHASE COST	$	$477,411	$519,098	$528,566	$477,658	$525,590	$492,945	$511,249	$500,712	$523,689	$526,498	$508,349	$524,893	$6,116,656
TOTAL FIXED	$	$116,835	$117,001	$117,001	$117,001	$117,001	$116,835	$116,835	$116,835	$116,835	$116,835	$116,835	$116,835	$1,402,685
TOTAL VARIABLE	$	$486,653	$528,663	$538,130	$486,298	$535,155	$502,187	$520,799	$509,954	$533,239	$536,048	$517,591	$534,443	$6,229,161
DELIVERED COST AT NYMEX	$	$456,285	$492,054	$501,456	$453,154	$497,194	$472,541	$490,424	$478,607	$498,949	$501,331	$485,523	$504,214	$5,831,731
NET NON-GAS VARIABLE COST	$	$30,368	$36,609	$36,674	$33,143	$37,961	$29,646	$30,375	$31,347	$34,291	$34,718	$32,069	$30,229	$397,429
AVERAGE NON-GAS VARIABLE COST	$/Dth	**$0.2503**	**$0.2920**	**$0.2925**	**$0.2927**	**$0.3028**	**$0.2444**	**$0.2423**	**$0.2584**	**$0.2735**	**$0.2769**	**$0.2643**	**$0.2411**	**$0.2693**
AVERAGE FIXED COST	$/Dth													$28.9047
AVERAGE COST AT 100% LOAD FACTOR	$/Dth													**$0.9503**
TOTAL PATH COST	$/Dth													**$1.2195**

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4436
Attachment EDA-4
Redacted
Page 2 of 18

REDACTED

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4436
Attachment EDA-4
Redacted
Page 3 of 18

Gas Year 2013 - 2014
TEXAS EASTERN WEST LOUISIANA SUPPLY PATH TO ALGONQUIN CITY GATE
CITY GATE DELIVERED MDQ = 8,500

		NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	TOTAL
UNIT PRICING														
FIXED														
TETCO WLA SUPPLY ZONE DEMAND	$/Dth	$2.824	$2.824	$2.824	$2 824	$2 824	$2 824	$2 824	$2 824	$2.824	$2.824	$2.824	$2.824	
TETCO ELA SUPPLY ZONE DEMAND	$/Dth	$2.374	$2.374	$2.374	$2 374	$2 374	$2 374	$2 374	$2 374	$2.374	$2.374	$2.374	$2.374	
TETCO M1 TO M3 DEMAND	$/Dth	$10.262	$10.262	$10.262	$10 262	$10 262	$10 262	$10 262	$10 262	$10.262	$10.262	$10.262	$10.262	
ALGONQUIN AFT-E DEMAND	$/Dth	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	
VARIABLE														
TETCO USAGE WLA TO M3	$/Dth	$0.058	$0.058	$0.058	$0.058	$0.058	$0.058	$0.058	$0.058	$0.058	$0.058	$0.058	$0.058	
ALGONQUIN USAGE	$/Dth	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	
07/15/2013 NYMEX	$/Dth	$3.761	$3.925	$4.000	$4.002	$3 966	$3 895	$3 912	$3 945	$3.980	$3.999	$4.002	$4.022	
SUPPLY AREA BASIS	$/Dth	($0.065)	($0.009)	($0.056)	($0.067)	($0.035)	($0.055)	($0.072)	($0.122)	($0.087)	$0.008	($0.030)	($0.045)	
NET COST AFTER BASIS	$/Dth	$3.696	$3.916	$3.944	$3 935	$3 931	$3 840	$3 840	$3 823	$3.893	$4.007	$3.972	$3.977	
BILLING UNITS														
FIXED														
TETCO WLA SUPPLY ZONE DEMAND	Dth	8,579	8,595	8,595	8,595	8,595	8,579	8,579	8,579	8,579	8,579	8,579	8,579	
TETCO ELA SUPPLY ZONE DEMAND	Dth	8,579	8,595	8,595	8,595	8,595	8,579	8,579	8,579	8,579	8,579	8,579	8,579	
TETCO M1 TO M3 DEMAND	Dth	8,579	8,595	8,595	8,595	8,595	8,579	8,579	8,579	8,579	8,579	8,579	8,579	
ALGONQUIN AFT-E DEMAND	Dth	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	102,000
VARIABLE														
PURCHASE VOLUMES	Dth	272,606	284,496	284,496	256,964	284,496	272,606	281,693	272,606	281,693	281,693	272,606	281,693	3,327,653
TETCO USAGE WLA TO M3	Dth	257,368	266,431	266,431	240,647	266,431	257,368	265,947	257,368	265,947	265,947	257,368	265,947	3,133,197
ALGONQUIN USAGE	Dth	255,000	263,500	263,500	238,000	263,500	255,000	263,500	255,000	263,500	263,500	255,000	263,500	3,102,500
DELIVERED VOLUMES	Dth	255,000	263,500	263,500	238,000	263,500	255,000	263,500	255,000	263,500	263,500	255,000	263,500	3,102,500
FUEL USE %														
TETCO WLA TO M3 FUEL	%	5.59%	6.35%	6.35%	6.35%	6.35%	5 59%	5 59%	5 59%	5 59%	5.59%	5.59%	5.59%	
ALGONQUIN AFT-E FUEL	%	0.92%	1.10%	1.10%	1.10%	1.10%	0 92%	0 92%	0 92%	0 92%	0.92%	0.92%	0.92%	
TRANSPORTATION COST														
FIXED														
TETCO WLA SUPPLY ZONE DEMAND	$	$24,227	$24,271	$24,271	$24,271	$24,271	$24,227	$24,227	$24,227	$24,227	$24,227	$24,227	$24,227	$290,899
TETCO ELA SUPPLY ZONE DEMAND	$	$20,366	$20,403	$20,403	$20,403	$20,403	$20,366	$20,366	$20,366	$20,366	$20,366	$20,366	$20,366	$244,545
TETCO M1 TO M3 DEMAND	$	$88,037	$88,197	$88,197	$88,197	$88,197	$88,037	$88,037	$88,037	$88,037	$88,037	$88,037	$88,037	$1,057,084
ALGONQUIN AFT-E DEMAND	$	$54,581	$54,581	$54,581	$54,581	$54,581	$54,581	$54,581	$54,581	$54,581	$54,581	$54,581	$54,581	$654,973
VARIABLE														
TETCO USAGE WLA TO M3	$	$14,927	$15,453	$15,453	$13,958	$15,453	$14,927	$15,425	$14,927	$15,425	$15,425	$14,927	$15,425	$181,725
ALGONQUIN USAGE	$	$3,315	$3,426	$3,426	$3,094	$3,426	$3,315	$3,426	$3,315	$3,426	$3,426	$3,315	$3,426	$40,333
PURCHASE COST	$	$1,007,554	$1,114,087	$1,122,053	$1,011,155	$1,118,355	$1,046,809	$1,081,703	$1,042,175	$1,096,632	$1,128,745	$1,082,793	$1,120,295	$12,972,355
TOTAL FIXED	$	$187,211	$187,453	$187,453	$187,453	$187,453	$187,211	$187,211	$187,211	$187,211	$187,211	$187,211	$187,211	$2,247,501
TOTAL VARIABLE	$	$1,025,796	$1,132,966	$1,140,932	$1,028,206	$1,137,233	$1,065,051	$1,100,553	$1,060,417	$1,115,483	$1,147,596	$1,101,035	$1,139,145	$13,194,413
DELIVERED VOLUMES AT NYMEX	$	$959,055	$1,034,238	$1,054,000	$952,476	$1,045,041	$993,225	$1,030,812	$1,005,975	$1,048,730	$1,053,737	$1,020,510	$1,059,797	$12,257,595
NET NON-GAS VARIABLE COST	$	$66,741	$98,728	$86,932	$75,730	$92,192	$71,826	$69,741	$54,442	$66,753	$93,859	$80,525	$79,348	$936,818
AVERAGE NON-GAS VARIABLE COST	$/Dth	**$0.2617**	**$0.3747**	**$0.3299**	**$0.3182**	**$0.3499**	**$0.2817**	**$0.2647**	**$0.2135**	**$0.2533**	**$0.3562**	**$0.3158**	**$0.3011**	**$0.3020**
AVERAGE FIXED COST	$/Dth													$22.0343
AVERAGE COST AT 100% LOAD FACTOR	$/Dth													**$0.7244**
TOTAL PATH COST	$/Dth													**$1.0264**

Gas Year 2013 - 2014
TEXAS EASTERN EAST LOUISIANA SUPPLY PATH TO ALGONQUIN CITY GATE
CITY GATE DELIVERED MDQ = 6,500

		NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	TOTAL
UNIT PRICING														
FIXED														
TETCO ELA SUPPLY ZONE DEMAND	$/Dth	$2.374	$2.374	$2.374	$2 374	$2 374	$2 374	$2 374	$2 374	$2.374	$2.374	$2.374	$2.374	
TETCO M1 TO M3 DEMAND	$/Dth	$10.262	$10.262	$10.262	$10 262	$10 262	$10 262	$10 262	$10 262	$10.262	$10.262	$10.262	$10.262	
ALGONQUIN AFT-E DEMAND	$/Dth	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	
VARIABLE														
TETCO USAGE ELA TO M3	$/Dth	$0.057	$0.057	$0.057	$0.057	$0.057	$0.057	$0.057	$0.057	$0.057	$0.057	$0.057	$0.057	
ALGONQUIN USAGE	$/Dth	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	
07/15/2013 NYMEX	$/Dth	$3.761	$3.925	$4.000	$4.002	$3 966	$3 895	$3 912	$3 945	$3.980	$3.999	$4.002	$4.022	
SUPPLY AREA BASIS	$/Dth	($0.070)	($0.060)	($0.053)	($0.066)	($0.040)	($0.071)	($0.071)	($0.054)	($0.061)	($0.051)	($0.044)	($0.068)	
NET COST AFTER BASIS	$/Dth	$3.691	$3.865	$3.947	$3 936	$3 926	$3 824	$3 841	$3 891	$3.919	$3.948	$3.958	$3.954	
BILLING UNITS														
FIXED														
TETCO ELA SUPPLY ZONE DEMAND	Dth	6,560	6,572	6,572	6,572	6,572	6,560	6,560	6,560	6,560	6,560	6,560	6,560	
TETCO M1 TO M3 DEMAND	Dth	6,560	6,572	6,572	6,572	6,572	6,560	6,560	6,560	6,560	6,560	6,560	6,560	
ALGONQUIN AFT-E DEMAND	Dth	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500	78,000
VARIABLE														
PURCHASE VOLUMES	Dth	208,464	217,556	217,556	196,502	217,556	208,464	215,413	208,464	215,413	215,413	208,464	215,413	2,544,675
TETCO USAGE ELA TO M3	Dth	196,811	203,741	203,741	184,024	203,741	196,811	203,371	196,811	203,371	203,371	196,811	203,371	2,395,974
ALGONQUIN USAGE	Dth	195,000	201,500	201,500	182,000	201,500	195,000	201,500	195,000	201,500	201,500	195,000	201,500	2,372,500
DELIVERED VOLUMES	Dth	195,000	201,500	201,500	182,000	201,500	195,000	201,500	195,000	201,500	201,500	195,000	201,500	2,372,500
FUEL USE %														
TETCO ELA TO M3 FUEL	%	5.59%	6.35%	6.35%	6.35%	6.35%	5 59%	5 59%	5 59%	5 59%	5.59%	5.59%	5.59%	
ALGONQUIN AFT-E FUEL	%	0.92%	1.10%	1.10%	1.10%	1.10%	0 92%	0 92%	0 92%	0 92%	0.92%	0.92%	0.92%	
TRANSPORTATION COST														
FIXED														
TETCO ELA SUPPLY ZONE DEMAND	$	$15,574	$15,603	$15,603	$15,603	$15,603	$15,574	$15,574	$15,574	$15,574	$15,574	$15,574	$15,574	$187,005
TETCO M1 TO M3 DEMAND	$	$67,322	$67,445	$67,445	$67,445	$67,445	$67,322	$67,322	$67,322	$67,322	$67,322	$67,322	$67,322	$808,359
ALGONQUIN AFT-E DEMAND	$	$41,738	$41,738	$41,738	$41,738	$41,738	$41,738	$41,738	$41,738	$41,738	$41,738	$41,738	$41,738	$500,861
VARIABLE														
TETCO USAGE ELA TO M3	$	$11,179	$11,572	$11,572	$10,453	$11,572	$11,179	$11,551	$11,179	$11,551	$11,551	$11,179	$11,551	$136,091
ALGONQUIN USAGE	$	$2,535	$2,620	$2,620	$2,366	$2,620	$2,535	$2,620	$2,535	$2,620	$2,620	$2,535	$2,620	$30,843
PURCHASE COST	$	$769,440	$840,854	$858,693	$773,432	$854,125	$797,166	$827,400	$811,133	$844,202	$850,449	$825,100	$851,741	$9,903,734
TOTAL FIXED	$	$124,635	$124,786	$124,786	$124,786	$124,786	$124,635	$124,635	$124,635	$124,635	$124,635	$124,635	$124,635	$1,496,225
TOTAL VARIABLE	$	$783,154	$855,046	$872,885	$786,251	$868,317	$810,879	$841,571	$824,846	$858,373	$864,620	$838,814	$865,912	$10,070,667
DELIVERED VOLUMES AT NYMEX	$	$733,395	$790,888	$806,000	$728,364	$799,149	$759,525	$788,268	$769,275	$801,970	$805,799	$780,390	$810,433	$9,373,455
NET NON-GAS VARIABLE COST	$	$49,759	$64,158	$66,885	$57,887	$69,168	$51,354	$53,303	$55,571	$56,403	$58,821	$58,424	$55,479	$697,212
AVERAGE NON-GAS VARIABLE COST	$/Dth	**$0.2552**	**$0.3184**	**$0.3319**	**$0.3181**	**$0.3433**	**$0.2634**	**$0.2645**	**$0.2850**	**$0.2799**	**$0.2919**	**$0.2996**	**$0.2753**	**$0.2939**
AVERAGE FIXED COST	$/Dth													$19.1824
AVERAGE COST AT 100% LOAD FACTOR	$/Dth													**$0.6307**
TOTAL PATH COST	$/Dth													**$0.9245**

REDACTED

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4436
Attachment EDA-4
Redacted
Page 4 of 18

REDACTED

Gas Year 2013 - 2014
MAUMEE/DOWNINGTON COLUMBIA PATH TO CITY GATE
CITY GATE DELIVERED MDQ = 1,500

		NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	TOTAL
UNIT PRICING														
FIXED														
COLUMBIA FTS DEMAND	$/Dth	$5.728	$5.728	$5.728	$5.728	$5.728	$5.728	$5.728	$5.728	$5.728	$5.728	$5.728	$5.728	
ALGONQUIN DEMAND	$/Dth	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	
VARIABLE														
COLUMBIA USAGE	$/Dth	$0.019	$0.019	$0.019	$0.019	$0.019	$0.019	$0.019	$0.019	$0.019	$0.019	$0.019	$0.019	
ALGONQUIN USAGE	$/Dth	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	
07/15/2013 NYMEX	$/Dth	$3.761	$3.925	$4.000	$4.002	$3 966	$3 895	$3 912	$3 945	$3.980	$3.999	$4.002	$4.022	
SUPPLY BASIS MAUMEE	$/Dth	($0.083)	($0.083)	($0.088)	($0.092)	($0.105)	($0.093)	($0.112)	($0.183)	($0.198)	($0.207)	($0.232)	($0.250)	
SUPPLY BASIS DOWNINGTON	$/Dth	($0.014)	$0.363	$0.862	$0.758	$0.045	($0.157)	($0.198)	($0.157)	($0.091)	($0.114)	($0.251)	($0.231)	
NET COST AFTER BASIS MAUMEE	$/Dth	$3.678	$3.842	$3.912	$3 910	$3 861	$3 802	$3 800	$3.762	$3.782	$3.792	$3.770	$3.772	
NET COST AFTER BASIS DOWNINGTON	$/Dth	$3.747	$4.288	$4.862	$4.760	$4.011	$3.738	$3.714	$3.788	$3.889	$3.885	$3.751	$3.791	
BILLING UNITS														
FIXED														
COLUMBIA FTS DEMAND	Dth	1,530	1,530	1,530	1,530	1,530	1,530	1,530	1,530	1,530	1,530	1,530	1,530	
ALGONQUIN DEMAND	Dth	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	18,000
VARIABLE														
PURCHASE VOLUMES MAUMEE	Dth	38,604	39,181	39,181	35,389	39,181	37,848	39,110	37,848	39,110	39,110	37,848	39,110	
PURCHASE VOLUMES DOWNINGTON	Dth	7,721	7,836	7,836	7,078	7,836	7,570	7,822	7,570	7,822	7,822	7,570	7,822	
COLUMBIA USAGE	Dth	45,418	47,017	47,017	42,467	47,017	45,418	46,932	45,418	46,932	46,932	45,418	46,932	
ALGONQUIN USAGE	Dth	45,000	46,500	46,500	42,000	46,500	45,000	46,500	45,000	46,500	46,500	45,000	46,500	
DELIVERED VOLUMES MAUMEE	Dth	37,500	38,750	38,750	35,000	38,750	37,500	38,750	37,500	38,750	38,750	37,500	38,750	456,250
DELIVERED VOLUMES DOWNINGTON	Dth	7,500	7,750	7,750	7,000	7,750	7,500	7,750	7,500	7,750	7,750	7,500	7,750	91,250
FUEL USE %														
COLUMBIA FUEL	%	1.96%	1.96%	1.96%	1.96%	1.96%	1 96%	1 96%	1 96%	1 96%	1.96%	1.96%	1.96%	
ALGONQUIN AFT-E FUEL	%	0.92%	1.10%	1.10%	1.10%	1.10%	0 92%	0 92%	0 92%	0 92%	0.92%	0.92%	0.92%	
TRANSPORTATION COST														
FIXED														
COLUMBIA FTS DEMAND	$	$8,764	$8,764	$8,764	$8,764	$8,764	$8,764	$8,764	$8,764	$8,764	$8,764	$8,764	$8,764	$105,162
ALGONQUIN DEMAND	$	$9,632	$9,632	$9,632	$9,632	$9,632	$9,632	$9,632	$9,632	$9,632	$9,632	$9,632	$9,632	$115,583
VARIABLE														
COLUMBIA USAGE	$	$863	$893	$893	$807	$893	$863	$892	$863	$892	$892	$863	$892	$10,505
ALGONQUIN USAGE	$	$585	$605	$605	$546	$605	$585	$605	$585	$605	$605	$585	$605	$7,118
PURCHASE COST MAUMEE	$	$141,984	$150,533	$153,276	$138,372	$151,278	$143,899	$148,617	$142,385	$147,913	$148,304	$142,688	$147,522	$1,756,772
PURCHASE COST DOWNINGTON	$	$28,930	$33,602	$38,100	$33,691	$31,431	$28,295	$29,051	$28,674	$30,420	$30,388	$28,394	$29,653	$370,627
TOTAL FIXED	$	$18,395	$18,395	$18,395	$18,395	$18,395	$18,395	$18,395	$18,395	$18,395	$18,395	$18,395	$18,395	$220,745
TOTAL VARIABLE	$	$172,362	$185,633	$192,873	$173,416	$184,207	$173,642	$179,164	$172,507	$179,829	$180,189	$172,529	$178,671	$2,145,022
DELIVERED VOLUMES AT NYMEX	$	$169,245	$182,513	$186,000	$168,084	$184,419	$175,275	$181,908	$177,525	$185,070	$185,954	$180,090	$187,023	$2,163,105
NET NON-GAS VARIABLE COST	$	$3,117	$3,120	$6,873	$5,332	-$212	-$1,633	-$2,744	-$5,018	-$5,241	-$5,765	-$7,561	-$8,352	-$18,083
AVERAGE NON-GAS VARIABLE COST	$/Dth	**$0.0693**	**$0.0671**	**$0.1478**	**$0.1269**	**-$0.0046**	**-$0.0363**	**-$0.0590**	**-$0.1115**	**-$0.1127**	**-$0.1240**	**-$0.1680**	**-$0.1796**	**-$0.0330**
AVERAGE FIXED COST	$/Dth													$12.2636
AVERAGE COST AT 100% LOAD FACTOR	$/Dth													**$0.4032**
TOTAL PATH COST	$/Dth													**$0.3702**

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4436
Attachment EDA-4
Redacted
Page 5 of 18

Gas Year 2013 - 2014
TENNESSEE ZONE 1 TO CITY GATE
CITY GATE DELIVERED MDQ = 9,500

		NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	TOTAL
						UNIT PRICING								
FIXED														
TENNESSEE ZONE 1 TO 6 DEMAND	$/Dth	$22.552	$22.552	$22.552	$22 552	$22 552	$22 552	$22 552	$22 552	$22.552	$22.552	$22.552	$22.552	
VARIABLE														
TENNESSE ZONE 1 TO 6 USAGE	$/Dth	$0.308	$0.308	$0.308	$0 308	$0 308	$0 308	$0 308	$0 308	$0.308	$0.308	$0.308	$0.308	
07/15/2013 NYMEX	$/Dth	$3.761	$3.925	$4.000	$4.002	$3 966	$3 895	$3 912	$3 945	$3.980	$3.999	$4.002	$4.022	
SUPPLY AREA BASIS	$/Dth	($0.057)	($0.069)	($0.018)	($0.022)	($0.028)	($0.061)	($0.021)	($0.041)	($0.030)	($0.048)	($0.049)	($0.078)	
NET COST AFTER BASIS	$/Dth	$3.704	$3.856	$3.982	$3 980	$3 938	$3 834	$3 891	$3 904	$3.950	$3.951	$3.953	$3.944	
						BILLING UNITS								
FIXED														
TENNESSEE ZONE 1 TO 6 DEMAND	Dth	9,500	9,500	9,500	9,500	9,500	9,500	9,500	9,500	9,500	9,500	9,500	9,500	114,000
VARIABLE														
PURCHASE VOLUMES	Dth	296,720	306,611	306,611	276,939	306,611	296,720	306,611	296,720	306,611	306,611	296,720	306,611	3,610,099
TENNESSE ZONE 1 TO 6 USAGE	Dth	285,000	294,500	294,500	266,000	294,500	285,000	294,500	285,000	294,500	294,500	285,000	294,500	3,467,500
DELIVERED VOLUMES	Dth	285,000	294,500	294,500	266,000	294,500	285,000	294,500	285,000	294,500	294,500	285,000	294,500	3,467,500
						FUEL USE %								
TENNESSEE ZONE 1 TO 6 FUEL	%	3.95%	3.95%	3.95%	3.95%	3.95%	3 95%	3 95%	3 95%	3 95%	3.95%	3.95%	3.95%	
						TRANSPORTATION COST								
FIXED														
TENNESSEE ZONE 1 TO 6 DEMAND	$	$214,246	$214,246	$214,246	$214,246	$214,246	$214,246	$214,246	$214,246	$214,246	$214,246	$214,246	$214,246	$2,570,951
VARIABLE														
TENNESSE ZONE 1 TO 6 USAGE	$	$87,723	$90,647	$90,647	$81,875	$90,647	$87,723	$90,647	$87,723	$90,647	$90,647	$87,723	$90,647	$1,067,297
PURCHASE COST	$	$1,099,053	$1,182,293	$1,220,926	$1,102,218	$1,207,435	$1,137,626	$1,193,024	$1,158,397	$1,211,114	$1,211,421	$1,172,936	$1,209,274	$14,105,715
TOTAL FIXED	$	$214,246	$214,246	$214,246	$214,246	$214,246	$214,246	$214,246	$214,246	$214,246	$214,246	$214,246	$214,246	$2,570,951
TOTAL VARIABLE	$	$1,186,776	$1,272,940	$1,311,573	$1,184,092	$1,298,082	$1,225,349	$1,283,671	$1,246,120	$1,301,761	$1,302,068	$1,260,659	$1,299,921	$15,173,011
DELIVERED VOLUMES AT NYMEX	$	$1,071,885	$1,155,913	$1,178,000	$1,064,532	$1,167,987	$1,110,075	$1,152,084	$1,124,325	$1,172,110	$1,177,706	$1,140,570	$1,184,479	$13,699,665
NET NON-GAS VARIABLE COST	$	$114,891	$117,027	$133,573	$119,560	$130,095	$115,274	$131,587	$121,795	$129,651	$124,362	$120,089	$115,442	$1,473,346
AVERAGE NON-GAS VARIABLE COST	$/Dth	**$0.4031**	**$0.3974**	**$0.4536**	**$0.4495**	**$0.4417**	**$0.4045**	**$0.4468**	**$0.4273**	**$0.4402**	**$0.4223**	**$0.4214**	**$0.3920**	**$0.4249**
AVERAGE FIXED COST	$/Dth													$22.5522
AVERAGE COST AT 100% LOAD FACTOR	$/Dth													**$0.7414**
TOTAL PATH COST	$/Dth													**$1.1663**

REDACTED

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4436
Attachment EDA-4
Redacted
Page 6 of 18

Gas Year 2013 - 2014
ALGONQUIN LAMBERTVILLE TO CITY GATE
CITY GATE DELIVERED MDQ = 2,714

		NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	TOTAL
UNIT PRICING														
FIXED														
ALGONQUIN AFT-E DEMAND	$/Dth	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	$6.421	
VARIABLE														
ALGONQUIN AFT-E USAGE	$/Dth	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	$0.013	
07/15/2013 NYMEX	$/Dth	$3.761	$3.925	$4.000	$4.002	$3 966	$3 895	$3 912	$3 945	$3.980	$3.999	$4.002	$4.022	
SUPPLY AREA BASIS	$/Dth	($0.027)	$0.283	$0.595	$0 538	$0.015	($0.157)	($0.198)	($0.157)	($0.128)	($0.127)	($0.248)	($0.228)	
NET COST AFTER BASIS	$/Dth	$3.734	$4.208	$4.595	$4 540	$3 981	$3.738	$3.714	$3.788	$3.852	$3.872	$3.754	$3.794	
BILLING UNITS														
FIXED														
ALGONQUIN AFT-E DEMAND	Dth	2,714	2,714	2,714	2,714	2,714	2,714	2,714	2,714	2,714	2,714	2,714	2,714	32,568
VARIABLE														
PURCHASE VOLUMES	Dth	82,176	85,070	85,070	76,837	85,070	82,176	84,915	82,176	84,915	84,915	82,176	84,915	1,000,411
ALGONQUIN AFT-E USAGE	Dth	81,420	84,134	84,134	75,992	84,134	81,420	84,134	81,420	84,134	84,134	81,420	84,134	990,610
DELIVERED VOLUMES	Dth	81,420	84,134	84,134	75,992	84,134	81,420	84,134	81,420	84,134	84,134	81,420	84,134	990,610
FUEL USE %														
ALGONQUIN AFT-E FUEL	%	0.92%	1.10%	1.10%	1.10%	1.10%	0 92%	0 92%	0 92%	0 92%	0.92%	0.92%	0.92%	
TRANSPORTATION COST														
FIXED														
ALGONQUIN AFT-E DEMAND	$	$17,427	$17,427	$17,427	$17,427	$17,427	$17,427	$17,427	$17,427	$17,427	$17,427	$17,427	$17,427	$209,129
VARIABLE														
ALGONQUIN AFT-E USAGE	$	$1,058	$1,094	$1,094	$988	$1,094	$1,058	$1,094	$1,058	$1,094	$1,094	$1,058	$1,094	$12,878
PURCHASE COST	$	$306,845	$357,974	$390,896	$348,841	$338,663	$307,174	$315,375	$311,283	$327,093	$328,792	$308,489	$322,168	$3,963,592
TOTAL FIXED	$	$17,427	$17,427	$17,427	$17,427	$17,427	$17,427	$17,427	$17,427	$17,427	$17,427	$17,427	$17,427	$209,129
TOTAL VARIABLE	$	$307,904	$359,067	$391,989	$349,829	$339,756	$308,232	$316,469	$312,341	$328,187	$329,885	$309,547	$323,262	$3,976,470
DELIVERED VOLUMES AT NYMEX	$	$306,221	$330,226	$336,536	$304,120	$333,675	$317,131	$329,132	$321,202	$334,853	$336,452	$325,843	$338,387	$3,913,778
NET NON-GAS VARIABLE COST	$	$1,683	$28,841	$55,453	$45,709	$6,081	-$8,898	-$12,663	-$8,861	-$6,666	-$6,566	-$16,296	-$15,125	$62,692
AVERAGE NON-GAS VARIABLE COST	$/Dth	**$0.0207**	**$0.3428**	**$0.6591**	**$0.6015**	**$0.0723**	**-$0.1093**	**-$0.1505**	**-$0.1088**	**-$0.0792**	**-$0.0780**	**-$0.2001**	**-$0.1798**	**$0.0633**
AVERAGE FIXED COST	$/Dth													$6.4213
AVERAGE COST AT 100% LOAD FACTOR	$/Dth													**$0.2111**
TOTAL PATH COST	$/Dth													**$0.2744**

REDACTED

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4436
Attachment EDA-4
Redacted
Page 7 of 18

REDACTED

CALCULATION OF SYSTEM WEIGHTED AVERAGE DEMAND COSTS **2013 - 2014 GCR PROJECTED PRICES**

August 1, 2013 **UNIT PRICES**

PIPELINE FIXED COST UNIT PRICES

		NOV 2012	DEC	JAN 2013	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
ALGONQUIN AFT-E/AFT-1 DEMAND	$/Dth	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213	$6.4213
ALGONQUIN AFT-3 DEMAND	$/Dth	$10.7554	$10.7554	$10.7554	$10.7554	$10.7554	$10.7554	$10.7554	$10.7554	$10.7554	$10.7554	$10.7554	$10.7554
ALGONQUIN AFT-ES/1S DEMAND	$/Dth	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685	$2.5685
ALGONQUIN HUBL NE DEMAND	$/Dth	$11.5583	$11.5583	$11.5583	$11.5583	$11.5583	$11.5583	$11.5583	$11.5583	$11.5583	$11.5583	$11.5583	$11.5583
ALGONQUIN HUBL NE DEMAND	$/Dth	$6.9958	$6.9958	$6.9958	$6.9958	$6.9958	$6.9958	$6.9958	$6.9958	$6.9958	$6.9958	$6.9958	$6.9958
ALGONQUIN HUBL NE DEMAND	$/Dth	$6.9920	$6.9920	$6.9920	$6.9920	$6.9920	$6.9920	$6.9920	$6.9920	$6.9920	$6.9920	$6.9920	$6.9920
ALGONQUIN EAST TO WEST DEMAND	$/Dth	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341	$8.4341
COLUMBIA FTS DEMAND	$/Dth	$5.7280	$5.7280	$5.7280	$5.7280	$5.7280	$5.7280	$5.7280	$5.7280	$5.7280	$5.7280	$5.7280	$5.7280
DOMINION FTNN DEMAND	$/Dth	$4.2040	$4.2040	$4.2040	$4.2040	$4.2040	$4.2040	$4.2040	$4.2040	$4.2040	$4.2040	$4.2040	$4.2040
IROQUOIS DEMAND	$/Dth	$6.5971	$6.5971	$6.5971	$6.5971	$6.5971	$6.5971	$6.5971	$6.5971	$6.5971	$6.5971	$6.5971	$6.5971
NATIONAL FUEL DEMAND	$/Dth	$3.9622	$3.9622	$3.9622	$3.9622	$3.9622	$3.9622	$3.9622	$3.9622	$3.9622	$3.9622	$3.9622	$3.9622
TENNESSEE FT-A DEMAND ZONE 0 TO 6	$/Dth	$22.6587	$22.6587	$22.6587	$22.6587	$22.6587	$22.6587	$22.6587	$22.6587	$22.6587	$22.6587	$22.6587	$22.6587
TENNESSEE FT-A DEMAND ZONE 1 TO 6	$/Dth	$22.6587	$22.6587	$22.6587	$22.6587	$22.6587	$22.6587	$22.6587	$22.6587	$22.6587	$22.6587	$22.6587	$22.6587
TENNESSEE FT-A DEMAND ZONE 0 TO 6	$/Dth	$22.5522	$22.5522	$22.5522	$22.5522	$22.5522	$22.5522	$22.5522	$22.5522	$22.5522	$22.5522	$22.5522	$22.5522
TENNESSEE FT-A DEMAND ZONE 1 TO 6	$/Dth	$22.5522	$22.5522	$22.5522	$22.5522	$22.5522	$22.5522	$22.5522	$22.5522	$22.5522	$22.5522	$22.5522	$22.5522
TENNESSEE FT-A DEMAND ZONE 0 TO 6 CXN	$/Dth	$22.7365	$22.7365	$22.7365	$22.7365	$22.7365	$22.7365	$22.7365	$22.7365	$22.7365	$22.7365	$22.7365	$22.7365
TENNESSEE FT-A DEMAND DRACUT	$/Dth	$4.8846	$4.8846	$4.8846	$4.8846	$4.8846	$4.8846	$4.8846	$4.8846	$4.8846	$4.8846	$4.8846	$4.8846
TENNESSEE FT-A DEMAND ZONE 5 TO 6	$/Dth	$7.4396	$7.4396	$7.4396	$7.4396	$7.4396	$7.4396	$7.4396	$7.4396	$7.4396	$7.4396	$7.4396	$7.4396
TEXAS EASTERN CDS STX DEMAND M3	$/Dth	$6.8030	$6.8030	$6.8030	$6.8030	$6.8030	$6.8030	$6.8030	$6.8030	$6.8030	$6.8030	$6.8030	$6.8030
TEXAS EASTERN CDS WLA DEMAND M3	$/Dth	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240	$2.8240
TEXAS EASTERN CDS ELA DEMAND M3	$/Dth	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740	$2.3740
TEXAS EASTERN CDS ETX DEMAND M3	$/Dth	$2.1880	$2.1880	$2.1880	$2.1880	$2.1880	$2.1880	$2.1880	$2.1880	$2.1880	$2.1880	$2.1880	$2.1880
TEXAS EASTERN CDS 1-3 DEMAND M3	$/Dth	$10.2620	$10.2620	$10.2620	$10.2620	$10.2620	$10.2620	$10.2620	$10.2620	$10.2620	$10.2620	$10.2620	$10.2620
TEXAS EASTERN FTS DEMAND	$/Dth	$5.3510	$5.3510	$5.3510	$5.3510	$5.3510	$5.3510	$5.3510	$5.3510	$5.3510	$5.3510	$5.3510	$5.3510
TEXAS EASTERN SCT STX DEMAND M3	$/Dth	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210
TEXAS EASTERN SCT WLA DEMAND M3	$/Dth	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300
TEXAS EASTERN SCT ELA DEMAND M3	$/Dth	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500
TEXAS EASTERN SCT ETX DEMAND M3	$/Dth	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750
TEXAS EASTERN SCT 1-3 DEMAND M3	$/Dth	$4.1050	$4.1050	$4.1050	$4.1050	$4.1050	$4.1050	$4.1050	$4.1050	$4.1050	$4.1050	$4.1050	$4.1050
TEXAS EASTERN SCT STX DEMAND M2	$/Dth	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210	$2.7210
TEXAS EASTERN SCT WLA DEMAND M2	$/Dth	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300	$1.1300
TEXAS EASTERN SCT ELA DEMAND M2	$/Dth	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500	$0.9500
TEXAS EASTERN SCT ETX DEMAND M2	$/Dth	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750	$0.8750
TEXAS EASTERN SCT 1-2 DEMAND M2	$/Dth	$3.1480	$3.1480	$3.1480	$3.1480	$3.1480	$3.1480	$3.1480	$3.1480	$3.1480	$3.1480	$3.1480	$3.1480
TRANSCANADA DEMAND	$/Dth	$9.3219	$9.6326	$9.6326	$8.7004	$9.6326	$9.3219	$9.6326	$9.3219	$9.6326	$9.6326	$9.3219	$9.6326
TRANSCO DEMAND ZONE 2 TO 6	$/Dth	$0.5544	$0.5544	$0.5544	$0.5544	$0.5544	$0.5544	$0.5544	$0.5544	$0.5544	$0.5544	$0.5544	$0.5544
TRANSCO DEMAND ZONE 3 TO 6	$/Dth	$0.5212	$0.5212	$0.5212	$0.5212	$0.5212	$0.5212	$0.5212	$0.5212	$0.5212	$0.5212	$0.5212	$0.5212
TRANSCO DEMAND ZONE 6	$/Dth	$0.1472	$0.1472	$0.1472	$0.1472	$0.1472	$0.1472	$0.1472	$0.1472	$0.1472	$0.1472	$0.1472	$0.1472
UNION DEMAND	$/Dth	$2.3940	$2.4738	$2.4738	$2.2344	$2.4738	$2.3940	$2.4738	$2.3940	$2.4738	$2.4738	$2.3940	$2.4738

REDACTED

CALCULATION OF SYSTEM WEIGHTED AVERAGE DEMAND COSTS **2013 - 2014 GCR PROJECTED PRICES**

August 1, 2013

UNIT PRICES

PIPELINE FIXED COST BILLING UNITS		NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
ALGONQUIN AFT-E/AFT-1 DEMAND	DTH	87,285	87,285	87,285	87,285	87,285	87,285	87,285	87,285	87,285	87,285	87,285	87,285
ALGONQUIN AFT-3 DEMAND	DTH	11,063	11,063	11,063	11,063	11,063	11,063	11,063	11,063	11,063	11,063	11,063	11,063
ALGONQUIN AFT-ES/1S DEMAND	DTH	4,079	4,079	4,079	4,079	4,079	4,079	4,079	4,079	4,079	4,079	4,079	4,079
ALGONQUIN HUBL NE DEMAND	DTH	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000
ALGONQUIN HUBL NE DEMAND	DTH	500	500	500	500	500	500	500	500	500	500	500	500
ALGONQUIN HUBL NE DEMAND	DTH	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500
ALGONQUIN EAST TO WEST DEMAND	Dth	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
COLUMBIA FTS DEMAND	DTH	47,455	47,455	47,455	47,455	47,455	47,455	47,455	47,455	47,455	47,455	47,455	47,455
DOMINION FTNN DEMAND	DTH	537	537	537	537	537	537	537	537	537	537	537	537
IROQUOIS DEMAND	DTH	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012
NATIONAL FUEL DEMAND	DTH	1,177	1,177	1,177	1,177	1,177	1,177	1,177	1,177	1,177	1,177	1,177	1,177
TENNESSEE FT-A DEMAND ZONE 0 TO 6	DTH	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500
TENNESSEE FT-A DEMAND ZONE 1 TO 6	DTH	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500
TENNESSEE FT-A DEMAND ZONE 0 TO 6	DTH	6,022	6,022	6,022	6,022	6,022	6,022	6,022	6,022	6,022	6,022	6,022	6,022
TENNESSEE FT-A DEMAND ZONE 1 TO 6	DTH	13,313	13,313	13,313	13,313	13,313	13,313	13,313	13,313	13,313	13,313	13,313	13,313
TENNESSEE FT-A DEMAND ZONE 0 TO 6 CXN	DTH	11,600	11,600	11,600	11,600	11,600	11,600	11,600	11,600	11,600	11,600	11,600	11,600
TENNESSEE FT-A DEMAND DRACUT	DTH	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
TENNESSEE FT-A DEMAND ZONE 5 TO 6	DTH	2,067	2,067	2,067	2,067	2,067	2,067	2,067	2,067	2,067	2,067	2,067	2,067
TEXAS EASTERN CDS STX DEMAND M3	DTH	13,844	13,844	13,844	13,844	13,844	13,844	13,844	13,844	13,844	13,844	13,844	13,844
TEXAS EASTERN CDS WLA DEMAND M3	DTH	15,716	15,716	15,716	15,716	15,716	15,716	15,716	15,716	15,716	15,716	15,716	15,716
TEXAS EASTERN CDS ELA DEMAND M3	DTH	23,758	23,758	23,758	23,758	23,758	23,758	23,758	23,758	23,758	23,758	23,758	23,758
TEXAS EASTERN CDS ETX DEMAND M3	DTH	7,995	7,995	7,995	7,995	7,995	7,995	7,995	7,995	7,995	7,995	7,995	7,995
TEXAS EASTERN CDS 1-3 DEMAND M3	DTH	45,934	45,934	45,934	45,934	45,934	45,934	45,934	45,934	45,934	45,934	45,934	45,934
TEXAS EASTERN FTS DEMAND	DTH	537	537	537	537	537	537	537	537	537	537	537	537
TEXAS EASTERN SCT STX DEMAND M3	DTH	571	571	571	571	571	571	571	571	571	571	571	571
TEXAS EASTERN SCT WLA DEMAND M3	DTH	648	648	648	648	648	648	648	648	648	648	648	648
TEXAS EASTERN SCT ELA DEMAND M3	DTH	1,183	1,183	1,183	1,183	1,183	1,183	1,183	1,183	1,183	1,183	1,183	1,183
TEXAS EASTERN SCT ETX DEMAND M3	DTH	329	329	329	329	329	329	329	329	329	329	329	329
TEXAS EASTERN SCT 1-3 DEMAND M3	DTH	2,099	2,099	2,099	2,099	2,099	2,099	2,099	2,099	2,099	2,099	2,099	2,099
TEXAS EASTERN SCT STX DEMAND M2	DTH	401	401	401	401	401	401	401	401	401	401	401	401
TEXAS EASTERN SCT WLA DEMAND M2	DTH	455	455	455	455	455	455	455	455	455	455	455	455
TEXAS EASTERN SCT ELA DEMAND M2	DTH	831	831	831	831	831	831	831	831	831	831	831	831
TEXAS EASTERN SCT ETX DEMAND M2	DTH	231	231	231	231	231	231	231	231	231	231	231	231
TEXAS EASTERN SCT 1-2 DEMAND M2	DTH	1,474	1,474	1,474	1,474	1,474	1,474	1,474	1,474	1,474	1,474	1,474	1,474
TRANSCANADA DEMAND	DTH	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012	1,012
TRANSCO DEMAND ZONE 2 TO 6	DTH	4,140	4,278	4,278	3,864	4,278	4,140	4,278	4,140	4,278	4,278	4,140	4,278
TRANSCO DEMAND ZONE 3 TO 6	DTH	90	93	93	84	93	90	93	90	93	93	90	93
TRANSCO DEMAND ZONE 6	DTH	37,200	38,440	38,440	34,720	38,440	37,200	38,440	37,200	38,440	38,440	37,200	38,440
UNION DEMAND	DTH	1,025	1,025	1,025	1,025	1,025	1,025	1,025	1,025	1,025	1,025	1,025	1,025

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4436
Attachment EDA-4
Redacted
Page 9 of 18

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4436
Attachment EDA-4
Redacted
Page 10 of 18

REDACTED

CALCULATION OF SYSTEM WEIGHTED AVERAGE DEMAND COSTS **2013 - 2014 GCR PROJECTED PRICES**

August 1, 2013

		UNIT PRICES												
		NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	
PIPELINE FIXED COST DOLLARS														
ALGONQUIN AFT-E/AFT-1 DEMAND	$	$560,483	$560,483	$560,483	$560,483	$560,483	$560,483	$560,483	$560,483	$560,483	$560,483	$560,483	$560,483	
ALGONQUIN AFT-3 DEMAND	$	$118,987	$118,987	$118,987	$118,987	$118,987	$118,987	$118,987	$118,987	$118,987	$118,987	$118,987	$118,987	
ALGONQUIN AFT-ES/1S DEMAND	$	$10,477	$10,477	$10,477	$10,477	$10,477	$10,477	$10,477	$10,477	$10,477	$10,477	$10,477	$10,477	
ALGONQUIN HUBLINE DEMAND	$	$46,233	$46,233	$46,233	$46,233	$46,233	$46,233	$46,233	$46,233	$46,233	$46,233	$46,233	$46,233	
ALGONQUIN HUBLINE DEMAND	$	$3,498	$3,498	$3,498	$3,498	$3,498	$3,498	$3,498	$3,498	$3,498	$3,498	$3,498	$3,498	
ALGONQUIN HUBLINE DEMAND	$	$24,472	$24,472	$24,472	$24,472	$24,472	$24,472	$24,472	$24,472	$24,472	$24,472	$24,472	$24,472	
ALGONQUIN EAST TO WEST DEMAND	$	$84,341	$84,341	$84,341	$84,341	$84,341	$84,341	$84,341	$84,341	$84,341	$84,341	$84,341	$84,341	
COLUMBIA FTS DEMAND	$	$271,822	$271,822	$271,822	$271,822	$271,822	$271,822	$271,822	$271,822	$271,822	$271,822	$271,822	$271,822	
DOMINION FTNN DEMAND	$	$2,258	$2,258	$2,258	$2,258	$2,258	$2,258	$2,258	$2,258	$2,258	$2,258	$2,258	$2,258	
IROQUOIS DEMAND	$	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	
NATIONAL FUEL DEMAND	$	$4,664	$4,664	$4,664	$4,664	$4,664	$4,664	$4,664	$4,664	$4,664	$4,664	$4,664	$4,664	
TENNESSEE FT-A DEMAND ZONE 0 TO 6	$	$79,305	$79,305	$79,305	$79,305	$79,305	$79,305	$79,305	$79,305	$79,305	$79,305	$79,305	$79,305	
TENNESSEE FT-A DEMAND ZONE 1 TO 6	$	$147,282	$147,282	$147,282	$147,282	$147,282	$147,282	$147,282	$147,282	$147,282	$147,282	$147,282	$147,282	
TENNESSEE FT-A DEMAND ZONE 0 TO 6	$	$135,809	$135,809	$135,809	$135,809	$135,809	$135,809	$135,809	$135,809	$135,809	$135,809	$135,809	$135,809	
TENNESSEE FT-A DEMAND ZONE 1 TO 6	$	$300,237	$300,237	$300,237	$300,237	$300,237	$300,237	$300,237	$300,237	$300,237	$300,237	$300,237	$300,237	
TENNESSEE FT-A DEMAND ZONE 0 TO 6 CXN	$	$263,743	$73,269	$73,269	$73,269	$73,269	$73,269	$73,269	$73,269	$73,269	$73,269	$73,269	$73,269	
TENNESSEE FT-A DEMAND DRACUT	$	$73,269	$15,378	$15,378	$15,378	$15,378	$15,378	$15,378	$15,378	$15,378	$15,378	$15,378	$15,378	
TENNESSEE FT-A DEMAND ZONE 5 TO 6	$	$15,378	$263,743	$263,743	$263,743	$263,743	$263,743	$263,743	$263,743	$263,743	$263,743	$263,743	$263,743	
TEXAS EASTERN CDS STX DEMAND M3	$	$94,181	$94,181	$94,181	$94,181	$94,181	$94,181	$94,181	$94,181	$94,181	$94,181	$94,181	$94,181	
TEXAS EASTERN CDS WLA DEMAND M3	$	$44,382	$44,382	$44,382	$44,382	$44,382	$44,382	$44,382	$44,382	$44,382	$44,382	$44,382	$44,382	
TEXAS EASTERN CDS ELA DEMAND M3	$	$56,401	$56,401	$56,401	$56,401	$56,401	$56,401	$56,401	$56,401	$56,401	$56,401	$56,401	$56,401	
TEXAS EASTERN CDS ETX DEMAND M3	$	$17,493	$17,493	$17,493	$17,493	$17,493	$17,493	$17,493	$17,493	$17,493	$17,493	$17,493	$17,493	
TEXAS EASTERN CDS 1-3 DEMAND M3	$	$471,375	$2,873	$2,873	$2,873	$2,873	$2,873	$2,873	$2,873	$2,873	$2,873	$2,873	$2,873	
TEXAS EASTERN FTS DEMAND	$	$2,873	$471,375	$471,375	$471,375	$471,375	$471,375	$471,375	$471,375	$471,375	$471,375	$471,375	$471,375	
TEXAS EASTERN SCT STX DEMAND M3	$	$1,554	$1,554	$1,554	$1,554	$1,554	$1,554	$1,554	$1,554	$1,554	$1,554	$1,554	$1,554	
TEXAS EASTERN SCT WLA DEMAND M3	$	$732	$732	$732	$732	$732	$732	$732	$732	$732	$732	$732	$732	
TEXAS EASTERN SCT ELA DEMAND M3	$	$1,124	$1,124	$1,124	$1,124	$1,124	$1,124	$1,124	$1,124	$1,124	$1,124	$1,124	$1,124	
TEXAS EASTERN SCT ETX DEMAND M3	$	$288	$288	$288	$288	$288	$288	$288	$288	$288	$288	$288	$288	
TEXAS EASTERN SCT 1-3 DEMAND M3	$	$8,616	$8,616	$8,616	$8,616	$8,616	$8,616	$8,616	$8,616	$8,616	$8,616	$8,616	$8,616	
TEXAS EASTERN SCT STX DEMAND M2	$	$1,091	$1,091	$1,091	$1,091	$1,091	$1,091	$1,091	$1,091	$1,091	$1,091	$1,091	$1,091	
TEXAS EASTERN SCT WLA DEMAND M2	$	$514	$514	$514	$514	$514	$514	$514	$514	$514	$514	$514	$514	
TEXAS EASTERN SCT ELA DEMAND M2	$	$789	$789	$789	$789	$789	$789	$789	$789	$789	$789	$789	$789	
TEXAS EASTERN SCT ETX DEMAND M2	$	$202	$202	$202	$202	$202	$202	$202	$202	$202	$202	$202	$202	
TEXAS EASTERN SCT 1-2 DEMAND M2	$	$4,640	$4,640	$4,640	$4,640	$4,640	$4,640	$4,640	$4,640	$4,640	$4,640	$4,640	$4,640	
TRANSCANADA DEMAND	$	$9,434	$9,748	$9,748	$8,805	$9,748	$9,434	$9,748	$9,434	$9,748	$9,748	$9,434	$9,748	
TRANSCO DEMAND ZONE 2 TO 6	$	$2,295	$2,372	$2,372	$2,142	$2,372	$2,295	$2,372	$2,295	$2,372	$2,372	$2,295	$2,372	
TRANSCO DEMAND ZONE 3 TO 6	$	$47	$48	$48	$44	$48	$47	$48	$47	$48	$48	$47	$48	
TRANSCO DEMAND ZONE 6	$	$5,474	$5,657	$5,657	$5,109	$5,657	$5,474	$5,657	$5,474	$5,657	$5,657	$5,474	$5,657	
UNION DEMAND	$	$2,454	$2,536	$2,536	$2,290	$2,536	$2,454	$2,536	$2,454	$2,536	$2,536	$2,454	$2,536	
WESTERLY LATERAL (Yankee)	$	[redacted]												
	$													
TOTAL PIPELINE FIXED DEMAND CHARGES		[redacted]												
TOTAL DEMAND UNITS DTH		5,341,770	5,552,999	5,552,999	5,015,612	5,552,999	5,341,770	5,486,659	4,854,210	5,016,017	5,016,017	4,854,210	5,486,659	63,071,921
100% LOAD FACTOR UNIT VALUE $/DTH														[redacted]
Average rate per unit per month														
AVERAGE SYSTEM VARIABLE UNIT VALUE $/DTH														
Marketer Reconciliation 2012/13														$8,205
Marketer Demand Units DTH		873,540	902,658	902,658	815,304	902,658	873,540	902,658	873,540	902,658	902,658	873,540	902,658	10,628,070
100% LOAD FACTOR UNIT VALUE $/DTH														[redacted]
TOTAL AVERAGE SYSTEM UNIT VALUE $/DTH														[redacted]

National Grid
2013 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5

25-Jul-2013

Natural Gas Supply VS. Requirements

Units: DTH

	NOV 2013	DEC 2013	JAN 2014	FEB 2014	MAR 2014	APR 2014	MAY 2014	JUN 2014	JUL 2014	AUG 2014	SEP 2014	OCT 2014	Total/Average
Forecast Demand													
RI Sales GCR	1,929,200	3,808,800	5,034,400	3,869,300	3,828,900	2,176,200	1,342,300	749,500	620,300	627,400	652,800	1,231,000	25,870,100
Total Demand	1,929,200	3,808,800	5,034,400	3,869,300	3,828,900	2,176,200	1,342,300	749,500	620,300	627,400	652,800	1,231,000	25,870,100
Storage Injections													
TENN 501	0	0	0	0	0	119,300	123,300	119,300	123,300	0	0	89,800	575,000
GSS 300170	0	0	0	0	0	0	0	0	0	0	0	0	0
GSS 300168	0	0	0	0	0	21,000	21,700	0	0	0	0	0	42,700
GSS 300171	0	0	0	0	0	15,700	16,200	15,700	16,200	16,200	15,700	16,200	111,900
GSSTE 600045	0	0	0	0	0	187,800	0	0	0	137,200	0	0	325,000
TETCO 400515	0	0	0	0	0	8,700	0	0	0	5,500	0	0	14,200
TETCO 400221	0	0	0	0	0	181,600	187,700	0	0	187,700	37,000	0	594,000
TETCO 400185	0	0	0	0	0	0	0	0	0	0	0	0	0
GSS 300169	0	0	0	0	0	29,900	29,100	0	0	29,100	19,900	0	108,000
COL FSS 9630	0	0	0	0	0	25,700	40,800	40,800	36,300	0	26,500	14,300	184,400
TENN 62918	0	0	0	0	0	41,400	42,800	41,400	42,800	0	0	31,200	199,600
Total Underground Storage	0	0	0	0	0	631,100	461,600	217,200	218,600	375,700	99,100	151,500	2,154,800
LNG PROV	0	0	0	0	0	0	150,000	0	0	0	74,900	85,900	310,800
LNG VALLEY	0	0	0	0	0	0	5,000	0	0	0	15,000	29,900	49,900
LNG EXETER	0	0	0	0	0	0	0	0	0	0	60,100	4,700	64,800
Total LNG Injection	0	0	0	0	0	0	155,000	0	0	0	150,000	120,500	425,500
Total Injections	0	0	0	0	0	631,100	616,600	217,200	218,600	375,700	249,100	272,000	2,580,300

Delivered Firm Sales Supply

.	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	GCR Total
Sources of Supply													
TENN CONX	348,000	359,600	359,600	324,800	359,600	348,000	332,700	285,700	353,800	189,100	195,200	359,600	3,815,700
TENN ZONE 0	0	139,933	179,793	126,592	77,481	17,788	0	0	0	0	0	0	541,587
TENN ZONE 1	0	291,167	374,107	263,408	161,219	37,012	0	0	0	0	0	0	1,126,913
TENN NIAGARA	15,400	33,100	33,100	29,900	33,100	32,000	2,100	0	0	0	0	17,900	196,600
TENN DRACUT	0	95,000	134,000	44,000	27,000	141,500	132,600	89,200	0	0	0	25,200	688,500
COL MAUMEE	14,900	871,200	872,200	787,600	872,300	36,600	0	40,800	148,500	108,600	0	14,300	3,767,000
COL BROADRUN	0	300,600	300,900	271,800	300,900	29,100	0	0	0	3,600	0	0	1,206,900
TRANSCO Z2	0	4,013	4,013	3,621	0	0	0	0	0	0	0	0	11,647
TRANSCO Z3	0	85	85	77	0	0	0	0	0	0	0	0	248
TETCO ELA	0	301,952	296,962	268,206	0	161,557	88,843	5,986	6,177	143,216	27,682	6,177	1,306,759
TETCO ETX	0	90,457	88,960	80,348	0	48,398	26,615	1,793	1,850	42,904	8,293	1,850	391,469
TETCO STX	0	134,823	132,593	119,756	0	72,136	39,669	2,673	2,758	63,947	12,360	2,758	583,474
TETCO WLA	0	207,516	204,083	184,324	0	111,030	61,057	4,114	4,245	98,425	19,025	4,245	898,064
TETCO to B&W - SCT	0	33,575	33,020	29,823	0	17,964	9,879	666	687	15,925	3,078	687	145,302
TETCO - NF - TRANSCO	0	14,796	14,551	13,142	0	7,917	4,353	293	303	7,018	1,356	303	64,033
TETCO - DTI - TETCO	0	8,782	8,636	7,800	0	4,699	2,584	174	180	4,165	805	180	38,004
M3 DELIVERED	1,502,100	704,400	508,400	300,100	1,759,200	1,613,800	1,035,100	516,500	301,000	306,700	438,800	930,000	9,916,100
HUBLINE	0	92,000	92,100	83,200	0	0	0	0	0	0	0	0	267,300
COL EAGLE	0	0	80,600	5,100	24,600	69,400	45,500	0	0	0	0	0	225,200
COL DOWNINGTOWN	0	0	70,900	0	19,300	39,600	3,500	0	0	0	26,500	0	159,800
ANE II - DAWN-TENN	30,000	31,000	31,000	28,000	31,000	0	0	0	0	0	0	0	151,000
DISTRIGAS NSB Winter	0	0	0	0	0	0	0	0	0	0	0	0	0
DISTRIGAS NSB Summer	0	0	0	0	0	0	155,000	0	0	0	150,000	120,100	425,100
NEWPORT LNG	0	0	0	0	0	0	0	0	0	0	0	0	0
SPOT LNG	0	0	0	0	0	0	0	0	0	0	0	0	0

REDACTED

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4436
Attachment EDA-4
Redacted
Page 11 of 18

National Grid
2013 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5

25-Jul-2013

Natural Gas Supply VS. Requirements

Units: DTH

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
Non LNG Liquid take	1,910,400	3,713,998	3,819,603	2,971,598	3,665,700	2,788,500	1,784,500	947,900	819,500	983,600	733,100	1,363,200	25,501,600
LNG Liquid take	0	0	0	0	0	0	155,000	0	0	0	150,000	120,100	425,100
Total take	1,910,400	3,713,998	3,819,603	2,971,598	3,665,700	2,788,500	1,939,500	947,900	819,500	983,600	883,100	1,483,300	25,926,700
Storage Withdrawals													
TENN 501	0	27,400	278,500	167,800	93,600	0	0	0	0	0	0	0	567,300
GSS 300170	0	0	0	0	0	0	0	0	0	0	0	0	0
GSS 300168	0	9,800	26,600	4,200	1,500	0	0	0	0	0	0	0	42,100
GSS 300171	0	0	68,300	41,200	0	0	0	0	0	0	0	0	109,500
GSSTE 600045	0	0	166,400	150,300	0	0	0	0	0	0	0	0	316,700
TETCO 400515	0	0	13,300	0	0	0	0	0	0	0	0	0	13,300
TETCO 400221	0	0	285,000	285,000	0	0	0	0	0	0	0	0	570,000
TETCO 400185	0	0	0	0	0	0	0	0	0	0	0	0	0
GSS 300169	0	0	53,500	50,300	0	0	0	0	0	0	0	0	103,800
COL FSS 9630	0	34,800	76,600	52,100	15,400	0	0	0	0	0	0	0	178,900
TENN 62918	0	3,300	30,900	129,200	33,300	0	0	0	0	0	0	0	196,700
LNG PROV	11,700	12,100	180,500	10,900	12,100	11,700	12,100	11,700	12,100	12,100	11,700	12,100	310,800
LNG VALLEY	3,100	3,200	15,400	2,900	3,200	3,100	3,200	3,100	3,200	3,200	3,100	3,200	49,900
LNG EXETER	4,000	4,200	19,800	3,800	4,200	4,000	4,200	4,000	4,200	4,200	4,000	4,200	64,800
Total Withdrawal Delivered	18,800	94,800	1,214,800	897,700	163,300	18,800	19,500	18,800	19,500	19,500	18,800	19,500	2,523,800
Total Storage withdrawal	0	75,300	999,100	880,100	143,800	0	0	0	0	0	0	0	2,098,300
Total Peaking withdrawal	18,800	19,500	215,700	17,600	19,500	18,800	19,500	18,800	19,500	19,500	18,800	19,500	425,500
Total Supply	**1,929,200**	**3,808,798**	**5,034,403**	**3,869,298**	**3,829,000**	**2,807,300**	**1,804,000**	**966,700**	**839,000**	**1,003,100**	**751,900**	**1,382,700**	**28,025,400**
Storage withdrawals at Storage Facilty													
TENN 501	0	27,700	282,400	170,100	94,900	0	0	0	0	0	0	0	575,100
GSS 300170	0	0	0	0	0	0	0	0	0	0	0	0	0
GSS 300168	0	9,900	27,000	4,300	1,500	0	0	0	0	0	0	0	42,700
GSS 300171	0	0	69,900	42,100	0	0	0	0	0	0	0	0	112,000
GSSTE 600045	0	0	170,700	154,200	0	0	0	0	0	0	0	0	324,900
TETCO 400515	0	0	14,200	0	0	0	0	0	0	0	0	0	14,200
TETCO 400221	0	0	297,000	297,000	0	0	0	0	0	0	0	0	594,000
TETCO 400185	0	0	0	0	0	0	0	0	0	0	0	0	0
GSS 300169	0	0	55,600	52,300	0	0	0	0	0	0	0	0	107,900
COL FSS 9630	0	35,900	78,900	53,700	15,900	0	0	0	0	0	0	0	184,400
TENN 62918	0	3,400	31,300	131,000	33,800	0	0	0	0	0	0	0	199,500
	0	76,900	1,027,000	904,700	146,100	0	0	0	0	0	0	0	2,154,700

REDACTED

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4436
Attachment EDA-4
Redacted
Page 12 of 18

National Grid
2013 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5

25-Jul-2013

Natural Gas Supply VS. Requirements

Units: DTH

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
07/15/2013 NYMEX	**$3.761**	**$3.925**	**$4.000**	**$4.002**	**$3.966**	**$3.895**	**$3.912**	**$3.945**	**$3.980**	**$3.999**	**$4.002**	**$4.022**	
TENNESSEE CONNEXION													
Basis	($0.083)	($0.085)	($0.082)	($0.092)	($0.085)	($0.100)	($0.102)	($0.090)	($0.078)	($0.075)	($0.088)	($0.110)	
usage to Zn 6	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	
fuel to Zn 6	4.49%	4.49%	4.49%	4.49%	4.49%	4.49%	4.49%	4.49%	4.49%	4.49%	4.49%	4.49%	
Total Delivered	$3 8527	$4.0223	$4.1040	$4.0956	$4.0652	$3 9752	$3.9909	$4.0380	$4.0872	$4.1103	$4.0998	$4.0977	
TENNESSEE ZN 0													
Basis	($0.083)	($0.085)	($0.082)	($0.092)	($0.085)	($0.100)	($0.102)	($0.090)	($0.078)	($0.075)	($0.088)	($0.110)	
usage	$0 3532	$0.3532	$0.3532	$0.3532	$0.3532	$0 3532	$0.3532	$0.3532	$0.3532	$0.3532	$0 3532	$0.3532	
fuel	4.49%	4.49%	4.49%	4.49%	4.49%	4.49%	4.49%	4.49%	4.49%	4.49%	4.49%	4.49%	
Total Delivered	$4 2041	$4.3737	$4.4554	$4.4470	$4.4166	$4 3266	$4.3423	$4.3894	$4.4386	$4.4617	$4.4512	$4.4491	
TENNESSEE ZN 1													
Basis	($0.057)	($0.069)	($0.018)	($0.022)	($0.028)	($0.061)	($0.021)	($0.041)	($0.030)	($0.048)	($0.049)	($0.078)	
usage to Zn 6	$0 3078	$0.3078	$0.3078	$0.3078	$0.3078	$0 3078	$0.3078	$0.3078	$0.3078	$0.3078	$0 3078	$0.3078	
fuel to Zn 6	3.95%	3 95%	3.95%	3.95%	3.95%	3.95%	3 95%	3.95%	3.95%	3.95%	3.95%	3 95%	
Total Delivered	$4.1641	$4.3224	$4.4536	$4.4515	$4.4077	$4 2995	$4.3588	$4.3723	$4.4202	$4.4213	$4.4234	$4.4140	
TENNESSEE DRACUT													
Basis	$0.846	$5.531	$9 286	$8.486	$2.699	$0.255	$0.122	$0.047	$0.344	$0.311	$0.136	$0.176	
usage	$0.0366	$0.0366	$0.0366	$0.0366	$0.0366	$0.0366	$0.0366	$0.0366	$0.0366	$0.0366	$0.0366	$0.0366	
fuel	0.21%	0.21%	0 21%	0.21%	0.21%	0.21%	0.21%	0 21%	0.21%	0.21%	0.21%	0.21%	
Total Delivered	$4.6533	$9.5125	$13.3506	$12.5509	$6.7156	$4.1953	$4.0791	$4.0370	$4.3697	$4.3557	$4.1833	$4.2434	
TETCO ELA													
Basis	($0.070)	($0.060)	($0.053)	($0.066)	($0.040)	($0.071)	($0.071)	($0.054)	($0.061)	($0.051)	($0.044)	($0.068)	
Usage to M3	$0.0568	$0.0568	$0.0568	$0.0568	$0.0568	$0.0568	$0.0568	$0.0568	$0.0568	$0.0568	$0.0568	$0.0568	
Usage on AGT	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	
Fuel to M3	5.59%	6.35%	6 35%	6.35%	6.35%	5.59%	5 59%	5.59%	5.59%	5.59%	5.59%	5 59%	
Fuel on AGT	0.92%	1.10%	1.10%	1.10%	1.10%	0.92%	0 92%	0.92%	0.92%	0.92%	0.92%	0 92%	
Total Delivered	$4.0162	$4.2434	$4.3319	$4.3201	$4.3093	$4.1584	$4.1765	$4.2300	$4.2599	$4.2909	$4 3016	$4.2973	
TETCO ETX													
Basis	($0.099)	($0.064)	($0.082)	($0.112)	($0.110)	($0.104)	($0.160)	($0.101)	($0.055)	($0.099)	($0.118)	($0.078)	
Usage to M3	$0.0568	$0.0568	$0.0568	$0.0568	$0.0568	$0.0568	$0.0568	$0.0568	$0.0568	$0.0568	$0.0568	$0.0568	
Usage on AGT	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	
Fuel to M3	5.45%	6.18%	6.18%	6.18%	6.18%	5.45%	5.45%	5.45%	5.45%	5.45%	5.45%	5.45%	
Fuel on AGT	0.92%	1.10%	1.10%	1.10%	1.10%	0.92%	0 92%	0.92%	0.92%	0.92%	0.92%	0 92%	
Total Delivered	$3 9794	$4.2315	$4.2930	$4.2628	$4.2261	$4.1171	$4.0754	$4.1737	$4.2601	$4.2334	$4 2164	$4.2804	
TETCO STX													
Basis	($0.073)	($0.087)	($0.092)	($0.092)	($0.080)	($0.087)	($0.090)	($0.077)	($0.065)	($0.063)	($0.075)	($0.098)	
Usage to M3	$0.0626	$0.0626	$0.0626	$0.0626	$0.0626	$0.0626	$0.0626	$0.0626	$0.0626	$0.0626	$0.0626	$0.0626	
Usage on AGT	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	
Fuel to M3	5.41%	6 28%	6.28%	6.28%	6.28%	5.41%	5.41%	5.41%	5.41%	5.41%	5.41%	5.41%	
Fuel on AGT	0.92%	1.10%	1.10%	1.10%	1.10%	0.92%	0 92%	0.92%	0.92%	0.92%	0.92%	0 92%	
Total Delivered	$4.0113	$4.2170	$4.2925	$4.2947	$4.2688	$4.1394	$4.1543	$4.2034	$4.2535	$4.2759	$4 2663	$4.2631	

REDACTED

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4436
Attachment EDA-4
Redacted
Page 13 of 18

National Grid
2013 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5

25-Jul-2013

Natural Gas Supply VS. Requirements

Units: DTH

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
TETCO WLA													
Basis	($0.065)	($0.009)	($0.056)	($0.067)	($0.035)	($0.055)	($0.072)	($0.122)	($0.087)	$0.008	($0.030)	($0.045)	
Usage to M3	$0.0580	$0.0580	$0.0580	$0.0580	$0.0580	$0.0580	$0.0580	$0.0580	$0.0580	$0.0580	$0.0580	$0.0580	
Usage on AGT	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	
Fuel to M3	5.59%	6 35%	6.35%	6.35%	6.35%	5.59%	5 59%	5.59%	5.59%	5.59%	5.59%	5 59%	
Fuel on AGT	0.92%	1.10%	1.10%	1.10%	1.10%	0.92%	0 92%	0.92%	0.92%	0.92%	0.92%	0 92%	
Total Delivered	$4.0227	$4.2997	$4.3299	$4.3202	$4.3159	$4.1767	$4.1767	$4.1585	$4.2333	$4.3552	$4 3178	$4.3231	
TETCO -> NF -> TRANSCO													
Basis	($0.070)	($0.060)	($0.053)	($0.066)	($0.040)	($0.071)	($0.071)	($0.054)	($0.061)	($0.051)	($0.044)	($0.068)	
Usage to M2	$0.4072	$0.4072	$0.4072	$0.4072	$0.4072	$0.4072	$0.4072	$0.4072	$0.4072	$0.4072	$0.4072	$0.4072	
Usage on NF	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	$0.0166	
Usage on Transco	$0.0099	$0.0099	$0.0099	$0.0099	$0.0099	$0.0099	$0.0099	$0.0099	$0.0099	$0.0099	$0.0099	$0.0099	
Usage on AGT	$0 2291	$0.2291	$0.2291	$0.2291	$0.2291	$0 2291	$0.2291	$0.2291	$0.2291	$0.2291	$0 2291	$0.2291	
Fuel to M2	4.77%	5.38%	5 38%	5.38%	5.38%	4.77%	4.77%	4.77%	4.77%	4.77%	4.77%	4.77%	
Fuel on NF	0.54%	0 54%	0.54%	0.54%	0.54%	0.54%	0 54%	0.54%	0.54%	0.54%	0.54%	0 54%	
Fuel on Transco	0.60%	0.60%	0.60%	0.60%	0.60%	0.60%	0.60%	0.60%	0.60%	0.60%	0.60%	0.60%	
Fuel on AGT	0.92%	1.10%	1.10%	1.10%	1.10%	0.92%	0 92%	0.92%	0.92%	0.92%	0.92%	0 92%	
Delivered to NF	$4 2831	$4.4920	$4.5786	$4.5670	$4.5564	$4.4227	$4.4406	$4.4931	$4.5225	$4.5530	$4 5635	$4.5593	
Delivered to Transco	$4 3229	$4.5329	$4.6201	$4.6084	$4.5978	$4.4634	$4.4813	$4.5341	$4.5637	$4.5943	$4.6048	$4.6006	
Delivered to Algonquin	$4 3589	$4.5702	$4.6579	$4.6461	$4.6354	$4 5002	$4.5183	$4.5714	$4.6011	$4.6319	$4.6425	$4.6383	
Total Delivered	$4.6285	$4.8502	$4.9388	$4.9269	$4.9161	$4.7711	$4.7893	$4.8429	$4.8729	$4.9040	$4 9147	$4.9105	
M3 DELIVERED													
Basis	($0.027)	$0 283	$0.595	$0.538	$0.015	($0.157)	($0.198)	($0.157)	($0.128)	($0.127)	($0.248)	($0 228)	
Usage on AGT	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	
Fuel on AGT	0.92%	1.10%	1.10%	1.10%	1.10%	0.92%	0 92%	0.92%	0.92%	0.92%	0.92%	0 92%	
Total Delivered	$3.7817	$4.2678	$4.6591	$4.6035	$4.0383	$3.7857	$3.7615	$3.8362	$3.9008	$3.9210	$3 8019	$3.8422	
COLUMBIA MAUMEE													
Basis	($0.083)	($0.083)	($0.088)	($0.092)	($0.105)	($0.093)	($0.112)	($0.183)	($0.198)	($0.207)	($0.232)	($0 250)	
Usage on Columbia	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	
Usage on AGT	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	
Fuel on Columbia	1.957%	1.957%	1.957%	1.957%	1 957%	1.957%	1.957%	1.957%	1.957%	1 957%	1.957%	1.957%	
Fuel on AGT	0.92%	1.10%	1.10%	1.10%	1.10%	0.92%	0 92%	0.92%	0.92%	0.92%	0.92%	0 92%	
Total Delivered	$3 8184	$3.9945	$4.0667	$4.0646	$4.0141	$3 9461	$3.9440	$3.9049	$3.9255	$3.9358	$3 9131	$3.9152	
COLUMBIA BROADRUN													
Basis	($0.083)	($0.083)	($0.088)	($0.092)	($0.105)	($0.093)	($0.112)	($0.183)	($0.198)	($0.207)	($0.232)	($0 250)	
Usage on Columbia	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	
Usage on AGT	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	
Fuel on Columbia	1.957%	1.957%	1.957%	1.957%	1 957%	1.957%	1.957%	1.957%	1.957%	1 957%	1.957%	1.957%	
Fuel on AGT	0.92%	1.10%	1.10%	1.10%	1.10%	0.92%	0 92%	0.92%	0.92%	0.92%	0.92%	0 92%	
Total Delivered	$3 8184	$3.9945	$4.0667	$4.0646	$4.0141	$3 9461	$3.9440	$3.9049	$3.9255	$3.9358	$3 9131	$3.9152	
COLUMBIA EAGLE													
Basis	($0.027)	$0 283	$0.595	$0.538	$0.015	($0.157)	($0.198)	($0.157)	($0.128)	($0.127)	($0.248)	($0 228)	
Usage on Columbia	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	
Usage on AGT	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	
Fuel on Columbia	1.957%	1.957%	1.957%	1.957%	1 957%	1.957%	1.957%	1.957%	1.957%	1 957%	1.957%	1.957%	
Fuel on AGT	0.92%	1.10%	1.10%	1.10%	1.10%	0.92%	0 92%	0.92%	0.92%	0.92%	0.92%	0 92%	
Total Delivered	$3 8761	$4.3719	$4.7711	$4.7143	$4.1378	$3 8802	$3.8555	$3.9317	$3.9975	$4.0181	$3 8967	$3.9378	

REDACTED

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4436
Attachment EDA-4
Redacted
Page 14 of 18

National Grid
2013 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5

25-Jul-2013

Natural Gas Supply VS. Requirements

Units: DTH

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
COLUMBIA DOWNINGTOWN													
Basis	($0.014)	$0 363	$0.862	$0.758	$0.045	($0.157)	($0.198)	($0.157)	($0.091)	($0.114)	($0.251)	($0 231)	
Usage on Columbia	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	$0.0190	
Usage on AGT	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	
Fuel on Columbia	1.957%	1.957%	1.957%	1.957%	1 957%	1.957%	1.957%	1.957%	1.957%	1 957%	1.957%	1.957%	
Fuel on AGT	0.92%	1.10%	1.10%	1.10%	1.10%	0.92%	0 92%	0.92%	0.92%	0.92%	0.92%	0 92%	
Total Delivered	$3 8895	$4.4544	$5.0464	$4.9412	$4.1688	$3 8802	$3.8555	$3.9317	$4.0356	$4.0315	$3 8936	$3.9348	
TETCO -> DTI -> TETCO													
Basis	($0.070)	($0.060)	($0.053)	($0.066)	($0.040)	($0.071)	($0.071)	($0.054)	($0.061)	($0.051)	($0.044)	($0.068)	
Usage to M2	$0.4072	$0.4072	$0.4072	$0.4072	$0.4072	$0.4072	$0.4072	$0.4072	$0.4072	$0.4072	$0.4072	$0.4072	
Usage on Dominion	$0.0234	$0.0234	$0.0234	$0.0234	$0.0234	$0.0234	$0.0234	$0.0234	$0.0234	$0.0234	$0.0234	$0.0234	
Usage on Tetco	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	
Usage on AGT	$0 2291	$0.2291	$0.2291	$0.2291	$0.2291	$0 2291	$0.2291	$0.2291	$0.2291	$0.2291	$0.2291	$0.2291	
Fuel to M2	4.77%	5 38%	5.38%	5.38%	5.38%	4.77%	4.77%	4.77%	4.77%	4.77%	4.77%	4.77%	
Fuel on Dominion	2.85%	2 85%	2.85%	2.85%	2.85%	2.85%	2 85%	2.85%	2.85%	2.85%	2.85%	2 85%	
Fuel on Tetco	1.29%	1 29%	1.29%	1.29%	1.29%	1.29%	1 29%	1.29%	1.29%	1.29%	1.29%	1 29%	
Fuel on AGT	0.92%	1.10%	1.10%	1.10%	1.10%	0.92%	0 92%	0.92%	0.92%	0.92%	0.92%	0 92%	
Delivered to Dominion	$4 2831	$4.4920	$4.5786	$4.5670	$4.5564	$4.4227	$4.4406	$4.4931	$4.5225	$4.5530	$4 5635	$4.5593	
Delivered to Tetco	$4.4321	$4.6471	$4.7363	$4.7244	$4.7135	$4 5759	$4.5943	$4.6483	$4.6786	$4.7099	$4.7207	$4.7164	
Delivered to Algonquin	$4.4918	$4.7097	$4.8000	$4.7879	$4.7769	$4.6375	$4.6561	$4.7109	$4.7415	$4.7733	$4.7842	$4.7798	
Total Delivered	$4.7627	$4.9912	$5.0825	$5.0703	$5.0591	$4 9096	$4.9284	$4.9837	$5.0146	$5.0467	$5.0577	$5.0533	
TRANSCO ZONE 2													
Basis	($0.023)	($0.021)	($0.004)	($0.018)	($0.008)	($0.033)	($0.026)	($0.016)	($0.009)	($0.026)	($0.033)	($0.053)	
Usage on Transco	$0.04944	$0.04944	$0.04944	$0.04944	$0.04944	$0.04944	$0.04944	$0.04944	$0.04944	$0.04944	$0.04944	$0.04944	
Usage on Tetco	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	
Usage on AGT	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	
Fuel on Transco	3.93%	3.93%	3 93%	3.93%	3.93%	3.93%	3.93%	3 93%	3.93%	3.93%	3.93%	3.93%	
Fuel on Tetco	1.29%	1.29%	1 29%	1.29%	1.29%	1.29%	1 29%	1.29%	1.29%	1.29%	1.29%	1 29%	
Fuel on AGT	0.92%	1.10%	1.10%	1.10%	1.10%	0.92%	0 92%	0.92%	0.92%	0.92%	0.92%	0 92%	
Total Delivered	$4.0437	$4.2281	$4.3262	$4.3134	$4.2856	$4.1757	$4.2012	$4.2470	$4.2917	$4.2938	$4 2896	$4.2896	
TRANSCO ZONE 3													
Basis	$0.002	$0.001	$0.005	$0.003	$0.003	$0.013	$0.020	$0.003	$0.003	$0.016	($0.010)	($0.027)	
Usage on Transco	$0.04478	$0.04478	$0.04478	$0.04478	$0.04478	$0.04478	$0.04478	$0.04478	$0.04478	$0.04478	$0.04478	$0.04478	
Usage on Tetco	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	$0.0018	
Usage on AGT	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	
Fuel on Transco	3.51%	3 51%	3.51%	3.51%	3.51%	3.51%	3 51%	3.51%	3.51%	3.51%	3.51%	3 51%	
Fuel on Tetco	1.29%	1 29%	1.29%	1.29%	1.29%	1.29%	1 29%	1.29%	1.29%	1.29%	1.29%	1 29%	
Fuel on AGT	0.92%	1.10%	1.10%	1.10%	1.10%	0.92%	0 92%	0.92%	0.92%	0.92%	0.92%	0 92%	
Total Delivered	$4.0481	$4.2285	$4.3124	$4.3124	$4.2742	$4 2018	$4.2272	$4.2442	$4.2813	$4.3152	$4 2908	$4.2940	
DAWN TO TENNESSEE - ANE II													
Basis	$0.390	$0 270	$0.210	$0.240	$0.290	$0.227	$0 220	$0.193	$0.127	$0.114	$0.154	$0.161	
Transcanada usage	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	
Transcanada pressure chg	$0.0147	$0.0147	$0.0147	$0.0147	$0.0147	$0.0147	$0.0147	$0.0147	$0.0147	$0.0147	$0.0147	$0.0147	
Iroquois usage	$0.0048	$0.0048	$0.0048	$0.0048	$0.0048	$0.0048	$0.0048	$0.0048	$0.0048	$0.0048	$0.0048	$0.0048	
Tenn usage	$0.0896	$0.0896	$0.0896	$0.0896	$0.0896	$0.0896	$0.0896	$0.0896	$0.0896	$0.0896	$0.0896	$0.0896	
Fuel on Union	0.840%	0.945%	1.086%	1.033%	0 972%	0.802%	0.567%	0.463%	0.451%	0 355%	0.352%	0.697%	
Fuel on TCPL	0.460%	0.510%	0.780%	0.720%	0 970%	0.520%	0.340%	0.230%	0.200%	0.130%	0.130%	0.180%	
Fuel on Iroquois	0.40%	0.40%	0.40%	0.40%	0.40%	0.40%	0.40%	0.40%	0.40%	0.40%	0.40%	0.40%	
Fuel on Tenn	1.06%	1.06%	1.06%	1.06%	1.06%	1.06%	1.06%	1.06%	1.06%	1.06%	1.06%	1.06%	
Total Delivered	$4 3770	$4.4290	$4.4624	$4.4905	$4.5133	$4 3481	$4.3407	$4.3377	$4.3043	$4.3034	$4 3472	$4.3916	

REDACTED

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4436
Attachment EDA-4
Redacted
Page 15 of 18

REDACTED

National Grid
2013 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5

25-Jul-2013

Natural Gas Supply VS. Requirements

Units: DTH

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
NIAGARA TO TENNESSEE													
Basis	$0.290	$0.170	$0.110	$0.140	$0.190	$0.127	$0.120	$0.093	$0.042	$0.043	$0.040	$0.057	
Tenn usage	$0.0896	$0.0896	$0.0896	$0.0896	$0.0896	$0.0896	$0.0896	$0.0896	$0.0896	$0.0896	$0.0896	$0.0896	
Tenn Fuel	1.06%	1.06%	1.06%	1.06%	1.06%	1.06%	1.06%	1.06%	1.06%	1.06%	1.06%	1.06%	
Total Delivered	$4.1840	$4.2285	$4.2436	$4.2760	$4.2901	$4.1547	$4.1648	$4.1709	$4.1547	$4.1749	$4.1749	$4.2123	
Tetco to B&W - SCT													
Basis	($0.070)	($0.060)	($0.053)	($0.066)	($0.040)	($0.071)	($0.071)	($0.054)	($0.061)	($0.051)	($0.044)	($0.068)	
usage on Tetco	$0 5028	$0.5028	$0.5028	$0.5028	$0.5028	$0 5028	$0.5028	$0.5028	$0.5028	$0.5028	$0 5028	$0.5028	
usage on AGT	$0 2291	$0.2291	$0.2291	$0.2291	$0.2291	$0 2291	$0.2291	$0.2291	$0.2291	$0.2291	$0 2291	$0.2291	
fuel to ZN 3	5.54%	6 32%	6.32%	6.32%	6.32%	5.54%	5 54%	5.54%	5.54%	5.54%	5.54%	5 54%	
Fuel on AGT	0.92%	1.10%	1.10%	1.10%	1.10%	0.92%	0 92%	0.92%	0.92%	0.92%	0.92%	0 92%	
Total Delivered	$4.6803	$4.9091	$4.9976	$4.9858	$4.9750	$4 8224	$4.8406	$4.8940	$4.9239	$4.9549	$4 9656	$4.9613	
Hubline													
Basis	$1 2570	$4.4850	$6.7480	$5.8420	$1.8680	$0 2950	$0.1250	$0.2770	$0.3100	$0.2850	$0.1520	$0.1620	
usage	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	$0.0130	
fuel	0.92%	1.10%	1.10%	1.10%	1.10%	0.92%	0.92%	0 92%	0.92%	0.92%	0.92%	0.92%	
Total Delivered	$5.0776	$8.5165	$10.8805	$9.9665	$5.9119	$4 2419	$4.0875	$4.2742	$4.3428	$4.3368	$4 2056	$4.2359	

Total Delivered to the City Gate Gas Supply Costs

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
TENN CONNEXION												
Delivered Mmbtu	348,000	359,600	359,600	324,800	359,600	348,000	332,700	285,700	353,800	189,100	195,200	359,600
NYMEX $/Mmbtu Del	$3.853	$4.022	$4.104	$4.096	$4.065	$3.975	$3.991	$4.038	$4.087	$4.110	$4.100	$4.098
Total Delivered Cost	$1,340,742	$1,446,427	$1,475,794	$1,330,255	$1,461,863	$1,383,372	$1,327,776	$1,153,664	$1,446,064	$777,252	$800,281	$1,473,535
Tennessee Zn 0												
Delivered Mmbtu	0	139,933	179,793	126,592	77,481	17,788	0	0	0	0	0	0
NYMEX $/Mmbtu Del	$4.204	$4.374	$4.455	$4.447	$4.417	$4.327	$4.342	$4 389	$4.439	$4.462	$4.451	$4.449
Total Delivered Cost	$0	$612,028	$801,049	$562,957	$342,206	$76,961	$0	$0	$0	$0	$0	$0
TENN ZONE 1												
Delivered Mmbtu	0	291,167	374,107	263,408	161,219	37,012	0	0	0	0	0	0
$/Mmbtu Del	$4.164	$4.322	$4.454	$4.451	$4.408	$4.299	$4.359	$4 372	$4.420	$4.421	$4.423	$4.414
Total Delivered Cost	$0	$1,258,533	$1,666,106	$1,172,554	$710,613	$159,133	$0	$0	$0	$0	$0	$0
TENN DRACUT												
Delivered Mmbtu	0	95,000	134,000	44,000	27,000	141,500	132,600	89,200	0	0	0	25,200
$/Mmbtu Del	$4.65	[redacted]				$4.20	$4.08	$4.04	$4.37	$4 36	$4.18	$4.24
Total Delivered Cost	$0					$593,640	$540,887	$360,100	$0	$0	$0	$106,935
TETCO ELA												
Delivered Mmbtu	0	301,952	296,962	268,206	0	161,557	88,843	5,986	6,177	143,216	27,682	6,177
$/Mmbtu Del	$4.0162	$4.2434	$4.3319	$4.3201	$4.3093	$4.1584	$4.1765	$4.2300	$4.2599	$4.2909	$4 3016	$4.2973
Total Delivered Cost	$0	$1,281,302	$1,286,419	$1,158,668	$0	$671,811	$371,055	$25,322	$26,314	$614,529	$119,079	$26,545

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4436
Attachment EDA-4
Redacted
Page 16 of 18

National Grid
2013 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5

25-Jul-2013

Natural Gas Supply VS. Requirements

Units: DTH

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
TETCO ETX													
Delivered Mmbtu	0	90,457	88,960	80,348	0	48,398	26,615	1,793	1,850	42,904	8,293	1,850	
NYMEX $/Mmbtu Del	$3.9794	$4.2315	$4.2930	$4.2628	$4 2261	$4.1171	$4.0754	$4.1737	$4.2601	$4 2334	$4.2164	$4.2804	
Total Delivered Cost	$0	$382,770	$381,903	$342,504	$0	$199,259	$108,468	$7,485	$7,883	$181,630	$34,966	$7,921	
TETCO STX													
Delivered Mmbtu	0	134,823	132,593	119,756	0	72,136	39,669	2,673	2,758	63,947	12,360	2,758	
NYMEX $/Mmbtu Del	$4.011	$4.217	$4 293	$4.295	$4.269	$4.139	$4.154	$4 203	$4.254	$4.276	$4.266	$4 263	
Total Delivered Cost	$0	$568,553	$569,162	$514,316	$0	$298,598	$164,797	$11,236	$11,732	$273,434	$52,733	$11,758	
TETCO WLA													
Delivered Mmbtu	0	207,516	204,083	184,324	0	111,030	61,057	4,114	4,245	98,425	19,025	4,245	
$/Mmbtu Del	$4.0227	$4.2997	$4.3299	$4.3202	$4.3159	$4.1767	$4.1767	$4.1585	$4.2333	$4.3552	$4 3178	$4.3231	
Total Delivered Cost	$0	$892,251	$883,661	$796,317	$0	$463,734	$255,016	$17,109	$17,971	$428,661	$82,144	$18,352	
TETCO -> NF -> TRANSCO													
Delivered Mmbtu	0	14,796	14,551	13,142	0	7,917	4,353	293	303	7,018	1,356	303	
Delivered $/Mmbtu	$4.6285	$4.8502	$4.9388	$4.9269	$4.9161	$4.7711	$4.7893	$4.8429	$4.8729	$4.9040	$4 9147	$4.9105	
Delivered Cost	$0	$71,763	$71,866	$64,752	$0	$37,770	$20,850	$1,421	$1,475	$34,415	$6,667	$1,486	
M3 DELIVERED													
Delivered Mmbtu	1,502,100	704,400	508,400	300,100	1,759,200	1,613,800	1,035,100	516,500	301,000	306,700	438,800	930,000	
Delivered $/Mmbtu	$3.7817	$4.2678	$4.6591	$4.6035	$4.0383	$3.7857	$3.7615	$3.8362	$3.9008	$3.9210	$3 8019	$3.8422	
Delivered Cost	$5,680,449	$3,006,240	$2,368,690	$1,381,509	$7,104,139	$6,109,377	$3,893,514	$1,981,383	$1,174,131	$1,202,556	$1,668,255	$3,573,273	
COLUMBIA MAUMEE													
Delivered Mmbtu	14,900	871,200	872,200	787,600	872,300	36,600	0	40,800	148,500	108,600	0	14,300	
Delivered $/Mmbtu	$3 8184	$3.9945	$4.0667	$4.0646	$4.0141	$3 9461	$3.9440	$3.9049	$3.9255	$3.9358	$3 9131	$3.9152	
Total Delivered Cost	$56,895	$3,479,995	$3,546,955	$3,201,290	$3,501,482	$144,426	$0	$159,320	$582,935	$427,426	$0	$55,987	
COLUMBIA BROADRUN													
Delivered Mmbtu	0	300,600	300,900	271,800	300,900	29,100	0	0	0	3,600	0	0	
Delivered $/Mmbtu	$3 8184	$3.9945	$4.0667	$4.0646	$4.0141	$3 9461	$3.9440	$3.9049	$3.9255	$3.9358	$3 9131	$3.9152	
Total Delivered Cost	$0	$1,200,742	$1,223,663	$1,104,762	$1,207,837	$114,831	$0	$0	$0	$14,169	$0	$0	
COLUMBIA EAGLE													
Delivered Mmbtu	0	0	80,600	5,100	24,600	69,400	45,500	0	0	0	0	0	
Delivered $/Mmbtu	$3 8761	$4.3719	$4.7711	$4.7143	$4.1378	$3 8802	$3.8555	$3.9317	$3.9975	$4.0181	$3 8967	$3.9378	
Delivered Cost	$0	$0	$384,547	$24,043	$101,791	$269,285	$175,425	$0	$0	$0	$0	$0	
COLUMBIA DOWNINGTOWN													
Delivered Mmbtu	0	0	70,900	0	19,300	39,600	3,500	0	0	0	26,500	0	
Delivered $/Mmbtu	$3 8895	$4.4544	$5.0464	$4.9412	$4.1688	$3 8802	$3.8555	$3.9317	$4.0356	$4.0315	$3 8936	$3.9348	
Delivered Cost	$0	$0	$357,791	$0	$80,457	$153,656	$13,494	$0	$0	$0	$103,180	$0	

REDACTED

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4436
Attachment EDA-4
Redacted
Page 17 of 18

REDACTED

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4436
Attachment EDA-4
Redacted
Page 18 of 18

National Grid
2013 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5

25-Jul-2013

Natural Gas Supply VS. Requirements

Units: DTH

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
TETCO -> DTI -> TETCO													
Delivered Mmbtu	0	8,782	8,636	7,800	0	4,699	2,584	174	180	4,165	805	180	
Delivered $/Mmbtu	$4.7627	$4.9912	$5.0825	$5.0703	$5.0591	$4 9096	$4.9284	$4.9837	$5.0146	$5.0467	$5.0577	$5.0533	
Delivered Cost	$0	$43,831	$43,895	$39,549	$0	$23,068	$12,734	$868	$901	$21,020	$4,072	$908	
TRANSCO ZONE 2													
Delivered Mmbtu	0	4,013	4,013	3,621	0	0	0	0	0	0	0	0	
Delivered $/Mmbtu	$4.0437	$4.2281	$4.3262	$4.3134	$4.2856	$4.1757	$4.2012	$4.2470	$4.2917	$4.2938	$4 2896	$4.2896	
Delivered Cost	$0	$16,966	$17,360	$15,620	$0	$0	$0	$0	$0	$0	$0	$0	
TRANSCO ZONE 3													
Delivered Mmbtu	0	85	85	77	0	0	0	0	0	0	0	0	
Delivered $/Mmbtu	$4.0481	$4.2285	$4.3124	$4.3124	$4.2742	$4 2018	$4.2272	$4.2442	$4.2813	$4.3152	$4.2908	$4.2940	
Delivered Cost	$0	$361	$368	$332	$0	$0	$0	$0	$0	$0	$0	$0	
DAWN TO TENNESSEE - ANE II													
Delivered Mmbtu	30,000	31,000	31,000	28,000	31,000	0	0	0	0	0	0	0	
Delivered $/Mmbtu	$4 3770	$4.4290	$4.4624	$4.4905	$4 5133	$4.3481	$4.3407	$4.3377	$4.3043	$4 3034	$4.3472	$4.3916	
Total Delivered Cost	$131,310	$137,298	$138,334	$125,734	$139,913	$0	$0	$0	$0	$0	$0	$0	
NIAGARA TO TENNESSEE													
Delivered Mmbtu	15,400	33,100	33,100	29,900	33,100	32,000	2,100	0	0	0	0	17,900	
Delivered $/Mmbtu	$4.1840	$4.2285	$4.2436	$4.2760	$4 2901	$4.1547	$4.1648	$4.1709	$4.1547	$4.1749	$4.1749	$4.2123	
Total Delivered Cost	$64,434	$139,962	$140,464	$127,852	$142,003	$132,950	$8,746	$0	$0	$0	$0	$75,400	
Tetco to B&W - SCT													
Delivered Mmbtu	0	33,575	33,020	29,823	0	17,964	9,879	666	687	15,925	3,078	687	
Delivered $/Mmbtu	$4.6803	$4.9091	$4.9976	$4.9858	$4.9750	$4 8224	$4.8406	$4.8940	$4.9239	$4.9549	$4 9656	$4.9613	
Total Delivered Cost	$0	$164,824	$165,020	$148,689	$0	$86,630	$47,819	$3,258	$3,382	$78,906	$15,285	$3,408	
HUBLINE													
Total Delivered Vol	0	92,000	92,100	83,200	0	0	0	0	0	0	0	0	
Delivered $/Mmbtu	$5.0776	$8.5165	$10.8805	$9.9665	$5.9119	$4 2419	$4.0875	$4.2742	$4.3428	$4.3368	$4 2056	$4.2359	
Total Delivered Cost	$0	$783,522	$1,002,098	$829,212	$0	$0	$0	$0	$0	$0	$0	$0	

	NOV	**DEC**	**JAN**	**FEB**	**MAR**	**APR**	**MAY**	**JUN**	**JUL**	**AUG**	**SEP**	**OCT**	
Total Pipeline Costs	$7,273,828	[redacted]				$10,918,501	$6,940,581	$3,721,165	$3,272,788	$4,053,999	$2,886,662	$5,355,508	$109,568,764
Total Pipeline Volumes	1,910,400					2,788,500	1,784,500	947,900	819,500	983,600	733,100	1,363,200	25,501,600
WACOG	$3 8075					$3 9155	$3.8894	$3.9257	$3.9936	$4.1216	$3 9376	$3.9286	$4.2965
Injections	0	0	0	0	0	631,100	461,600	217,200	218,600	375,700	99,100	151,500	2,154,800
Value at WACOG	$0	$0	$0	$0	$0	$2,471,101	$1,795,333	$852,661	$873,010	$1,548,483	$390,217	$595,187	$8,525,992
Pipeline Costs less Injections	$7,273,828	[redacted]				$8,447,400	$5,145,248	$2,868,505	$2,399,778	$2,505,516	$2,496,444	$4,760,321	$101,042,772
Pipeline Volumes less injections	1,910,400					2,157,400	1,322,900	730,700	600,900	607,900	634,000	1,211,700	23,346,800
NYMEX cost of Supplies	$7,185,014	[redacted]				$8,403,073	$5,175,185	$2,882,612	$2,391,582	$2,430,992	$2,537,268	$4,873,457	$92,165,541
Non-gas cost of delivered supplies													**$0.3802**

Attachment EDA-5

Attachment EDA-5
FT-2 Operational Parameters

Operational Parameters
Non-Daily Metered FT-2 Storage and Peaking Resources

The following Operational Parameters are pursuant to RIPUC NG No. 101, Section 6, Schedule C:

Effective Period: November 1, 2013 through October 31, 2014

Underground Storage:

Maximum Inventory Level at any time is 100% of MSQ-U
Injections are not allowed.
Minimum Inventory Levels:

November 1	95%
November 15	95%
December 1	95%
December 15	92%
January 1	88%
January 15	77%
February 1	64%
February 15	54%
March 1	44%
March 15	41%
April 1	38%

Peaking Inventory:

Inventory Level allocated on November 1, 2012 = MSQ-P
Injections are not allowed.
Minimum Inventory Levels:

November 1	100%
January 1	92%
February 1	30%
March 1	25%
April 1	5%

MSQ-U	Maximum Storage Quantity - Underground
MDQ-U	Maximum Daily Quantity - Underground
MSQ-P	Maximum Storage Quantity - Peaking
MDQ-P	Maximum Daily Quantity - Peaking

Attachment EDA-6

Attachment EDA-6
FT-2 Storage Variable Costs

FT-2 Storage Variable Costs

SLF - Weighted Average Loss Factor on Storage Withdrawals

Storage	Withdrawals	Fuel %	Fuel Vol.	Fuel Avg.
TENN 501	575,100	0.00%	0	
GSS 300170	0	0.00%	0	
GSS 300168	42,700	0.00%	0	
GSS 300171	112,000	0.00%	0	
GSS-TE 600045	324,900	0.00%	0	
TETCO 400515	14,200	0.86%	122	
TETCO 400221	594,000	3.20%	19,008	
TETCO 400185	0	3.20%	0	
GSS 300169	107,900	0.00%	0	
COL FSS 9630	184,400	0.00%	0	
TENN 62918	199,500	0.00%	0	
	2,154,700		19,130	**0.8878%**

WWCC - Weighted Average Commodity Cost of Storage Withdrawals

Storage	Withdrawals	Unit Cost	Cost	Average
TENN 501	575,100	$0.0087	$5,003	
GSS 300170	0	$0.0188	$0	
GSS 300168	42,700	$0.0188	$803	
GSS 300171	112,000	$0.0188	$2,106	
GSS-TE 600045	324,900	$0.0248	$8,058	
TETCO 400515	14,078	$0.0357	$503	
TETCO 400221	574,992	$0.0520	$29,900	
TETCO 400185	0	$0.0520	$0	
GSS 300169	107,900	$0.0188	$2,029	
COL FSS 9630	184,400	$0.0153	$2,821	
TENN 62918	199,500	$0.0087	$1,736	
	2,135,570		$52,957	**$0.0248**

PLF - Weighted Average Loss Factor on Pipeline Contracts Used to Deliver Storage Withdrawals

Storage	Transported		Fuel %		Fuel Vol.	Fuel Avg.
TENN 501	575,100			1.38%	7,936	
GSS 300170	0		2.85%	1.38%	0	
GSS 300168	42,700			1.38%	589	
GSS 300171	112,000		1.29%	1.10%	2,661	
GSS-TE 600045	324,900		1.50%	1.10%	8,394	
TETCO 400515	14,078		3.35%	1.10%	621	
TETCO 400221	574,992			1.10%	6,325	
TETCO 400185	0			1.10%	0	
GSS 300169	107,900	2.85%	0.00%	1.10%	4,228	
COL FSS 9630	184,400		1.957%	1.10%	5,597	
TENN 62918	199,500			1.38%	2,753	
	2,135,570				39,105	**1.8311%**

PCC - Weighted Average Commodity Cost on Pipeline Contracts Used to Deliver Storage Withdrawals

Storage	Withdrawals		Unit Cost		Cost	Average
TENN 501	567,300			$0.1188	$67,395	
GSS 300170	0		$0.0234	$0.1188	$0	
GSS 300168	42,100			$0.1188	$5,001	
GSS 300171	109,500		$0.0018	$0.0130	$1,621	
GSS-TE 600045	316,700		$0.0018	$0.0130	$4,687	
TETCO 400515	13,300		$0.0304	$0.0130	$577	
TETCO 400221	570,000			$0.0130	$7,410	
TETCO 400185	0			$0.0130	$0	
GSS 300169	103,800	$0.0234	$0.0018	$0.0130	$3,965	
COL FSS 9630	178,900		$0.0188	$0.0130	$5,689	
TENN 62918	196,700			$0.1188	$23,368	
	2,098,300				$119,714	**$0.0571**

**Testimony of
Ann E. Leary**

DIRECT TESTIMONY

OF

ANN E. LEARY

September 3, 2013

Table of Contents

I. <u>Introduction</u>

Q. Please state your name and business address.

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

Q. What is your position and responsibilities?

A. I am the Manager of New England Gas Pricing for National Grid USA Service Company, Inc. As such, I am responsible for preparing and submitting various regulatory filings with the Rhode Island Public Utilities Commission ("Commission") on behalf of The Narragansett Electric Company d/b/a National Grid ("Company"), and the Massachusetts Department of Public Utilities on behalf of Boston Gas Company and Colonial Gas Company each d/b/a National Grid.

Q. Please describe your educational and professional background.

A. I received a Bachelor of Science in Mechanical Engineering from Cornell University in 1983. In 1985, I joined the Essex County Gas Company as Staff Engineer. In 1987, I became a planning analyst and later accepted the position of Manager of Rates. Following the merger with Eastern Enterprises in 1998, I became Manager of Pricing for Boston Gas Company. After the merger with

KeySpan Energy Delivery, subsequently National Grid, I became the Manager of New England Gas Pricing, the position I hold today.

Q. Have you previously testified or appeared before this Commission?

A. I have not testified previously before this Commission. However, I have submitted pre-filed testimony in the Company's 2012 Rate Case Filing, Docket No. 4323 and last year's Gas Cost Recovery ("GCR") Filing, Docket No. 4346. In addition, I have testified extensively in several ratemaking and regulatory proceedings before the Massachusetts Department of Public Utilities and the New Hampshire Public Utilities Commission.

Q. What is the purpose of your testimony?

A. The purpose of this testimony is to explain the GCR charges to be effective on November 1, 2013 for the following services: (1) Firm sales service customers in the Residential Non-Heating and Heating rate classes as well as Commercial and Industrial ("C&I") firm sales customers in the Small, Medium, Large and Extra Large rate classes and (2) Gas Marketer Fixed Charges and factors associated with transportation services billed to Gas Marketers.

Q. How is your testimony organized?

A. My testimony is composed of four general sections:

I. Introduction; II. GCR Rate Development Overview; III. GCR Rate Development Details; and IV. Bill Impacts.

Q. Are you including any Attachments with your testimony?

A. Yes. I am sponsoring the following Attachments:

Attachment AEL-1 Gas Cost Recovery Factors

Attachment AEL-2 Annual GCR Reconciliation Filing

Attachment AEL-3 Projected Gas Cost Balances

Attachment AEL-4 Bill Impact Analysis

Attachment AEL-5 FT-2 Demand Rate

Attachment AEL-6 FT-2 Capacity Allocator Percentages

Attachment AEL-7 Marketer Reconciliation

II. GCR Rate Development Overview

Q. Please provide an overview of the development of the proposed GCR rates.

A. The proposed GCR rates reflect the load specific (high load and low load) factors necessary for the Company to collect the projected gas costs allocated to firm customers for the period November 1, 2013 through October 31, 2014. As shown in the testimony of Ms. Arangio on Attachment EDA-1, firm customers' gas costs for the period are projected to be approximately $153.8 million for the twelve months ended October 2014. In addition to these projected costs, the GCR factors also reflect Working Capital Costs of approximately $0.9 million (Attachment AEL-1, page 2, line 9 and page 3, line 5), Inventory Financing Costs of approximately $1.9 million (Attachment AEL-1, page 3, lines 8-9), a prior period Deferred Balance of approximately $11.9 million including the Marketer Fixed Cost Reconciliation (Attachment AEL-1, page 2, line 10-11 and page 3, line 6) based on actual data through July 2013 and forecast data for the period August 2013 through October 2013, LNG Operation and Maintenance ("O&M") Costs of approximately $1.1 million (Docket No. 4323) (Attachment AEL-1, page 2, line 8 and page 3, line 7), a $1.5 million credit associated with FT-2 Marketer Storage Demand costs (Attachment AEL-1, page 2, line 4), and a credit of approximately $1.5 million associated with LNG Costs (Attachment AEL-1, page 2, line 5) which will be collected via the Distribution Adjustment Clause ("DAC") factor. Thus, the GCR factors are intended to recover approximately $166.6 million in costs over the period November 2013 through October 2014.

III. <u>GCR Rate Development Details</u>

Q. At a high level, please explain how the proposed GCR Rates were derived.

A. The proposed GCR rates were developed utilizing Fixed and Variable cost components. Attachment AEL-1 provides a summary of the GCR fixed and variable gas cost components used to derive the rates for which the Company seeks approval in this filing for effect November 1, 2013.

Q. Please describe how the fixed cost component of the proposed GCR was developed.

A. The fixed cost component includes all of the fixed costs related to the purchase, storage, and delivery of firm gas for both the high load factor and low load factor customers. As shown on Attachment AEL-1, page 2, the fixed cost component is derived by taking the total fixed costs (net of Capacity Release), less any credits such as Natural Gas Portfolio Management Plan ("NGPMP") customer credits, LNG Demand costs allocated to the DAC, and storage demand costs billed to FT-2 Marketers. The FT-2 storage demand costs are calculated by multiplying the FT-2 Demand Charge rate by the forecast of storage and peaking Maximum Daily Quantity ("MDQ") to be billed to FT-2 Marketers. Adjustments are also made for Supply-related LNG costs, working capital costs, and prior period Deferred Fixed Gas Costs under/over-collection balances, including an adjustment for the Marketer Fixed Cost Reconciliation as stipulated in the settlement agreement between the Company and the Division in Docket No. 4199. This results in total Fixed Gas Costs of $31,530,147 that are to be collected over the period November 2013 through October 2014. Finally, because the Company's gas-supply resources are planned so that there is sufficient capacity to meet the needs of firm sales customers under design winter conditions, the total Fixed Gas Costs are allocated to the various rate classes based on their proportion of design-winter use. The factor rates are derived using the allocated supply fixed costs and dividing them by the projected throughput for the upcoming year for each class. In this case the High Load classes would be expected to use 4.07 percent of the total throughput or 1,301,599 Dths, while the Low Load classes would use the remaining 95.93 percent or 24,718,392 Dths. Accordingly, the GCR Fixed Low Load Factor of $1.2236 per dekatherm while the GCR Fixed High Load Factor is $0.9861 per dekatherm.

Q. Please describe how the Company calculated the Marketer Fixed Cost Reconciliation Balance?

A. In accordance with the Settlement Agreement approved in Docket No. 4199, the Company includes an annual reconciliation of Marketer Fixed Costs. The Company calculated the Marketer Reconciliation by updating the 2012/2013 pipeline surcharge/credit for each path based on actual instead of projected pipeline capacity costs. The Company then compared the pipeline surcharge/credit approved in Docket No. 4346 for each path with the updated actual pipeline surcharge/credit and multiplied this variance by the Marketer's actual monthly capacity for the months of November 2012 through July 2013 and forecasted monthly capacity for the months of August 2013 through October

2013. This resulted in a Marketer Credit of $78,323. The Company also included an update to the 2011/2012 Marketer Reconciliation to replace the Marketers' forecasted monthly capacity for the months of September and October 2012 with their actual monthly capacity and to recalculate the 2011/2012 Marketer Reconciliation. In addition, the Company reconciled the actual revenues billed to Marketers during the period November 2012 through October 2013 with the actual 2011/2012 Marketer reconciliation. This resulted in a Marketer Surcharge of $86,528 for the 2011/2012 period. Therefore, the overall total Marketer Reconciliation for the two year period netted to $8,205. Attachment AEL-7 shows the calculation of the Marketer reconciliation adjustment for both the 2011/2012 and 2012/2013 periods. In addition to crediting firm sales customers fixed costs for this amount, the Company included this reconciliation in its calculation of the 2013/2014 pipeline surcharge/credits detailed in Ms. Arangio's testimony. See Attachment EDA-4.

Q. How did the Company develop its design winter calculations?

A. The Company developed its design winter calculation using calendar month degree days consistent with Commission's finding in Docket No. 4097.

Q. Please describe how the variable cost component was derived.

A. The variable cost component includes all variable costs of gas such as commodity costs, supply-related LNG O&M, working capital, inventory finance costs, pipeline refunds, and deferred cost balances. As shown on Attachment AEL-1, page 3, line 11, the total Variable Costs for the period November 2013 through October 2014 is $135,102,948. The variable costs are divided by the projected period throughput of 26,019,992 Dths to obtain a variable cost factor of $5.1922 per Dth.

Q. What is the Company's estimate of the deferred gas cost balance at the end of the current GCR period?

A. Based on actual data through July 2013 and forecasted data for the period August 2013 through October 2013, the total estimated deferred balance at October 31, 2013 is an under collection of $11,859,371 as shown in Attachment AEL-1, page 6. This balance is incorporated into the development of the GCR rates for the period November 1, 2013 to October 31, 2014. In addition, the projected deferred gas cost balances for the November 2013 through October 2014 period are shown on Attachment AEL-3.

Q. Is the Company proposing any changes to the GCR deferral balance for the period April 2012 through March 2013 filed with the Commission on July 1, 2013?

A. Yes. During the preparation of the July 2013 Monthly Deferred Gas Cost Report the Company determined that Off System capacity credits had been added back to the variable category instead of the fixed category. Consequently in Attachment AEL-2, the Company has reallocated gas costs between the fixed and variable categories for the period April 2012 through October 2012 causing the balance in the Supply Fixed Cost Deferred (the fixed category) to increase by $847,011 and the balance in the Supply Variable Cost Deferred (the variable category) to decrease by $847,011. However, the total deferred balance at the end of October 2012 remained the same (a credit of $148,383).

Q. Are there other rates the Company is proposing in this filing?

A. Yes. Consistent with the modifications in Docket No. 4270, the Company is submitting for approval its FT-2 marketer demand rate of $9.7373 per MDQ in Dth/month as shown in Attachment AEL-5. In addition, the Company is also submitting for approval the capacity assignment percentages for the high load and low load factors to be used in the determination of pipeline, underground storage, and peaking capacity for Marketers. These percentages are set forth in Attachment AEL-6.

Q. Please describe how the proposed FT-2 marketer demand rate is calculated.

A. It is worth noting that the FT-2 rate design approved in Docket No.4270 separates storage costs into two components: (1) the FT-2 Demand rate designed to recover the fixed costs associated with storage and peaking, which the Company is submitting for approval in this filing, and (2) the FT-2 variable rate that is designed to recover variable underground storage costs as well as the associated commodity costs and loss factors associated with pipeline contracts to bring the gas from storage to the city gate. In addition, marketers may purchase peaking inventory at the Company's cost of LNG inventory.

The FT-2 storage demand rate is derived by adding the total fixed storage costs, associated inventory finance, working capital charges, and supply-related LNG O&M costs less any LNG demand credits assigned to the DAC and refunds, if applicable. That total is then divided by the total storage and peaking MDQ for the year to derive a monthly per dekatherm rate to be charged to Marketers. As shown in Attachment AEL-5, the proposed FT-2 marketer demand rate is $9.7373 per Dth and will be applied to the Marketers' storage and peaking MDQ.

IV. Bill Impacts

Q. What is the combined bill impact of the proposed DAC and GCR rates on customer bills as compared to the rates currently in effect?

A. An average residential heating customer using 846 therms per year will experience a total bill decrease related to the proposed GCR and DAC rates of approximately $15 or an annual 1.3 percent decrease over the current existing rates. This decrease is comprised of an $8 decrease in GCR-related costs and an $7 decrease in the DAC-related costs filed today under separate cover, Docket No. 4431. A summary of annual bill impacts for customers with various levels of usage is provided on Attachment AEL-4.

Q. Does this conclude your testimony?

A. Yes.

Attachments of
Ann E. Leary

Attachments of Ann E. Leary

Attachment AEL-1	Gas Cost Recovery Factors
Attachment AEL-2	Annual GCR Reconciliation Filing
Attachment AEL-3	Projected Gas Cost Balances
Attachment AEL-4	Bill Impact Analysis
Attachment AEL-5	FT-2 Demand Rate
Attachment AEL-6	FT-2 Capacity Allocator Percentages
Attachment AEL-7	Marketer Reconciliation

Attachment AEL-1
REDACTED

Attachment AEL-1
Gas Cost Recovery Factors

REDACTED

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
Factors Effective November 1, 2013

Line No.	Description	Source: Reference	Source: Line #	High Load[1]	Low Load[2]	FT-2 Mkter[3]
	(a)	(b)	(c)	(d)	(e)	(f)
(1)	Fixed Cost Factor	AEL-1 pg 2	Line (17)	$0.9861	$1.2236	
(2)	Variable Cost Factor	AEL-1 pg 3	Line (13)	$5.1922	$5.1922	
(3)	Total Gas Cost Recovery Charge	(1) + (2)		$6.1783	$6.4158	
(4)	Uncollectible %	Docket 4323		3.18%	3.18%	
(5)	Total GCR Charge adjusted for Uncollectibles	(3) / [1 - (4)]		$6.3812	$6.6265	
(6)	**GCR Charge on a per therm basis**	(5) / 10		**$0.6381**	**$0.6626**	
(7)	Current rate effective 02/01/13*			$0.6240	$0.6725	
(8)	Increase (Decrease)	(6) - (7)		$0.0141	($0.0099)	
(9)	Percent Increase (Decrease)	(8) / (7)		2.3%	-1.5%	

* GCR rates approved with the rate case changes per Dkt 4323 Compliance Filing filed on January 24, 2013

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

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

[3] See AEL-5 for calculation of FT-2 rate

REDACTED

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

Line No.	Description (a)	Source: Reference (b)	Source: Line # (c)	Amount (d)	High Load Factor Total (e)	Low Load Factor Total (f)
(1)	Fixed Costs (net of Cap Rel to marketers)	AEL-1 pg 4	Line (59)	$44,878,613		
	Less:					
(2)	NGPMP Customer Benefit	EDA-1		($6,900,000)		
(3)	Interruptible Costs			$0		
(4)	FT-2 Storage Demand Costs	AEL-5 pg 3	Line (5)	($1,542,334)		
(5)	LNG Demand to DAC*			($1,488,790)		
(6)	Refunds			$0		
(7)	Total Credits	sum[(2):(6)]		($9,931,124)		
	Plus:					
(8)	Supply Related LNG O&M Costs	Dkt 4323	Compliance Attachment 6 Schedule MDL-3-GAS	$575,581		
(9)	Working Capital Requirement	AEL-1 pg 8	Line (16)	$260,649		
(10)	Deferred Fixed Cost Under/(Over)-recovered	AEL-1 pg 6	Line (17)	($4,245,368)		
(11)	Reconciliation Amount from Fixed costs- Marketers	AEL-7 pg 2	Line (51)	($8,205)		
(12)	Total Additions	sum[(8):(11)]		($3,417,343)		
(13)	Total Fixed Costs	(1) + (7) + (12)		$31,530,147		
(14)	Design Winter Sales Percentage	AEL-1 pg 12	Lines (10) & (11)		4.07%	95.93%
(15)	Allocated Supply Fixed Costs	(13) x (14)			$1,283,585	$30,246,561
(16)	Sales (Dt) Nov 2013 - Oct 2014	AEL-1 pg 11	Line (9)	26,019,992	1,301,599	24,718,392
(17)	**Fixed Factor**	(15) / (16)			**$0.9861**	**$1.2236**

* System Balancing Factor (Dkt 4339)
Line (16)
Col (e): AEL-1, page 11, Line 9, Sum of Line (1), (6), (8)
Col (f): AEL-1, page 11, Line 9, Sum of Line (2)-(5) and (7)

REDACTED

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

Line No.	Description	Source: Reference	Source: Line #	Amount
	(a)	(b)	(c)	(d)
(1)	Variable Costs, excluding Refunds	AEL-1 pg 5	Line (90) - Line (84)	$115,846,905
	Less:			
(2)	Non-Firm Sales			$0
(3)	Refunds	AEL-1 pg 5	Line (84)	$0
(4)	Total Credits	sum [(2):(3)]		$0
	Plus:			
(5)	Working Capital	AEL-1 pg 8	Line (32)	$690,195
6)	Deferred Variable Cost Under/(Over)-recovered	AEL-1 pg 6	Line (34)	$16,104,739
7)	Supply Related LNG O&M	Docket 4323	Compliance Attachment 6 Schedule MDL-3-GAS	$572,694
(8)	Inventory Financing - LNG	AEL-1 pg 10	Line (22)	$403,203
(9)	Inventory Financing - Storage	AEL-1 pg 10	Line (12)	$1,485,211
(10)	Total Additions	sum [(5):(9)]		$19,256,043
(11)	Total Variable Supply Costs	(1) + (4) + (10)		$135,102,948
(12)	Sales (Dt) Nov 2013 - Oct 2014	AEL-1 pg 11	Line (9)	26,019,992
(13)	**Variable Cost Factor**	(11) / (12)		**$5.1922**

REDACTED

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
Gas Cost Estimate

Line No	Description (a)	Reference (b)	Nov-13 (c)	Dec-13 (d)	Jan-14 (e)	Feb-14 (f)	Mar-14 (g)	Apr-14 (h)	May-14 (i)	Jun-14 (j)	Jul-14 (k)	Aug-14 (l)	Sep-14 (m)	Oct-14 (n)	Nov-Oct (o)
	SUPPLY FIXED COSTS - Pipeline Delivery														
(1)	Algonquin	EDA-2	$689,947	$689,947	$689,947	$689,947	$689,947	$689,947	$689,947	$689,947	$689,947	$689,947	$689,947	$689,947	$8,279,365
(2)	Texas Eastern	EDA-2	$212,457	$212,457	$212,457	$212,457	$212,457	$212,457	$212,457	$212,457	$212,457	$212,457	$212,457	$212,457	$2,549,487
(3)	TETCO	EDA-2	$493,799	$493,799	$493,799	$493,799	$493,799	$493,799	$493,799	$493,799	$493,799	$493,799	$493,799	$493,799	$5,925,591
(4)	Tennessee	EDA-2	$1,015,024	$1,015,024	$1,015,024	$1,015,024	$1,015,024	$1,015,024	$1,015,024	$1,015,024	$1,015,024	$1,015,024	$1,015,024	$1,015,024	$12,180,286
(5)	NETNE	EDA-2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
(6)	Iroquois	EDA-2	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$6,676	$80,115
(7)	Union	EDA-2	$2,454	$2,536	$2,536	$2,290	$2,536	$2,454	$2,536	$2,454	$2,536	$2,536	$2,454	$2,536	$29,855
(8)	Transcanada	EDA-2	$9,434	$9,748	$9,748	$8,805	$9,748	$9,434	$9,748	$9,434	$9,748	$9,748	$9,434	$9,748	$114,777
(9)	Dominion	EDA-2	$2,258	$2,258	$2,258	$2,258	$2,258	$2,258	$2,258	$2,258	$2,258	$2,258	$2,258	$2,258	$27,091
(10)	Transco	EDA-2	$7,816	$8,077	$8,077	$7,295	$8,077	$7,816	$8,077	$7,816	$8,077	$8,077	$7,816	$8,077	$95,100
(11)	National Fuel	EDA-2	$4,664	$4,664	$4,664	$4,664	$4,664	$4,664	$4,664	$4,664	$4,664	$4,664	$4,664	$4,664	$55,962
(12)	Columbia	EDA-2	$271,822	$271,822	$271,822	$271,822	$271,822	$271,822	$271,822	$271,822	$271,822	$271,822	$271,822	$271,822	$3,261,867
(13)	Hubline	EDA-2	$74,203	$74,203	$74,203	$74,203	$74,203	$74,203	$74,203	$74,203	$74,203	$74,203	$74,203	$74,203	$890,437
(14)	Westerly Lateral	EDA-2	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
(15)	East to West	EDA-2	$69,591	$69,591	$69,591	$69,591	$69,591	$69,591	$69,591	$69,591	$69,591	$69,591	$69,591	$69,591	$835,092
(16)	Less Credits from Mkter Releases	EDA-2	($493,562)	($493,562)	($493,562)	($493,562)	($493,562)	($493,562)	($493,562)	($493,562)	($493,562)	($493,562)	($493,562)	($493,562)	($5,922,744)
(17)	**TOTAL SUPPLY FIXED COSTS - Pipeline**	sum[(1) (16)]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
	Supply Fixed - Supplier														
(18)	Distrigas FCS	EDA-2	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
(19)	**Total**	(18)	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
(20)	**Total Supply Fixed (Pipeline & Supplier)**	(17) + (19)	$2,421,567	$2,422,224	$2,420,873	$2,418,903	$2,420,873	$2,420,216	$2,420,873	$2,420,216	$2,420,873	$2,420,873	$2,420,216	$2,420,873	$29,048,581
	STORAGE FIXED COSTS - Facilities														
(21)	Texas Eastern SS-1 Demand	EDA-2	$78,924	$78,924	$78,924	$78,924	$78,924	$78,924	$78,924	$78,924	$78,924	$78,924	$78,924	$78,924	$947,091
(22)	Texas Eastern SS-1 Capacity	EDA-2	$13,361	$13,361	$13,361	$13,361	$13,361	$13,361	$13,361	$13,361	$13,361	$13,361	$13,361	$13,361	$160,336
(23)	Texas Eastern FSS-1 Demand	EDA-2	$845	$845	$845	$845	$845	$845	$845	$845	$845	$845	$845	$845	$10,139
(24)	Texas Eastern FSS-1 Capacity	EDA-2	$610	$610	$610	$610	$610	$610	$610	$610	$610	$610	$610	$610	$7,324
(25)	Dominion GSS Demand	EDA-2	$21,025	$21,025	$21,025	$21,025	$21,025	$21,025	$21,025	$21,025	$21,025	$21,025	$21,025	$21,025	$252,298
(26)	Dominion GSS Capiacity	EDA-2	$15,070	$15,070	$15,070	$15,070	$15,070	$15,070	$15,070	$15,070	$15,070	$15,070	$15,070	$15,070	$180,839
(27)	Dominion GSS-TE Demand	EDA-2	$26,435	$26,435	$26,435	$26,435	$26,435	$26,435	$26,435	$26,435	$26,435	$26,435	$26,435	$26,435	$317,215
(28)	Dominion GSS-TE Capacity	EDA-2	$19,957	$19,957	$19,957	$19,957	$19,957	$19,957	$19,957	$19,957	$19,957	$19,957	$19,957	$19,957	$239,480
(29)	Tennessee FSMA Demand	EDA-2	$32,600	$32,600	$32,600	$32,600	$32,600	$32,600	$32,600	$32,600	$32,600	$32,600	$32,600	$32,600	$391,203
(30)	Tennessee FSMA Capacity	EDA-2	$17,204	$17,204	$17,204	$17,204	$17,204	$17,204	$17,204	$17,204	$17,204	$17,204	$17,204	$17,204	$206,445
(31)	Columbia FSS Demand	EDA-2	$3,840	$3,840	$3,840	$3,840	$3,840	$3,840	$3,840	$3,840	$3,840	$3,840	$3,840	$3,840	$46,085
(32)	Columbia FSS Capacity	EDA-2	$5,894	$5,894	$5,894	$5,894	$5,894	$5,894	$5,894	$5,894	$5,894	$5,894	$5,894	$5,894	$70,732
(33)	Keyspan LNG Tank Lease Payment	EDA-2	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
(34)	**TOTAL FIXED STORAGE COSTS**	sum[(21) (33)]													
	STORAGE FIXED COSTS - Delivery														
(35)	Algonquin for TETCO SS-1	EDA-2	$90,778	$90,778	$90,778	$90,778	$90,778	$90,778	$90,778	$90,778	$90,778	$90,778	$90,778	$90,778	$1,089,335
(36)	Algonquin delivery for FSS	EDA-2	$6,062	$6,062	$6,062	$6,062	$6,062	$6,062	$6,062	$6,062	$6,062	$6,062	$6,062	$6,062	$72,740
(37)	TETCO delivery for FSS	EDA-2	$4,768	$4,768	$4,768	$4,768	$4,768	$4,768	$4,768	$4,768	$4,768	$4,768	$4,768	$4,768	$57,218
(38)	Algonquin SCT for SS-1	EDA-2	$1,708	$1,708	$1,708	$1,708	$1,708	$1,708	$1,708	$1,708	$1,708	$1,708	$1,708	$1,708	$20,497
(39)	Algonquin delivery for GSS, GSS-TE,	EDA-2	$75,380	$75,380	$75,380	$75,380	$75,380	$75,380	$75,380	$75,380	$75,380	$75,380	$75,380	$75,380	$904,556
(40)	Algonquin SCT delivery for GSS-TE	EDA-2	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	$5,764
(41)	Algonquin delivery for GSS Conv	EDA-2	$20,168	$20,168	$20,168	$20,168	$20,168	$20,168	$20,168	$20,168	$20,168	$20,168	$20,168	$20,168	$242,013
(42)	Tennessee delivery for GSS	EDA-2	$57,093	$57,093	$57,093	$57,093	$57,093	$57,093	$57,093	$57,093	$57,093	$57,093	$57,093	$57,093	$685,111
(43)	Tennessee delivery for FSMA	EDA-2	$34,901	$34,901	$34,901	$34,901	$34,901	$34,901	$34,901	$34,901	$34,901	$34,901	$34,901	$34,901	$418,809
(44)	TETCO delivery for GSS	EDA-2	$34,123	$34,123	$34,123	$34,123	$34,123	$34,123	$34,123	$34,123	$34,123	$34,123	$34,123	$34,123	$409,480
(45)	TETCO delivery for GSS-TE	EDA-2	$3,538	$3,538	$3,538	$3,538	$3,538	$3,538	$3,538	$3,538	$3,538	$3,538	$3,538	$3,538	$42,455
(46)	TETCO delivery for GSS-TE	EDA-2	$34,396	$34,396	$34,396	$34,396	$34,396	$34,396	$34,396	$34,396	$34,396	$34,396	$34,396	$34,396	$412,746
(47)	TETCO delivery for GSS Conv	EDA-2	$10,674	$10,674	$10,674	$10,674	$10,674	$10,674	$10,674	$10,674	$10,674	$10,674	$10,674	$10,674	$128,087
(48)	Dominion delivery for GSS Conv	EDA-2	$8,664	$8,664	$8,664	$8,664	$8,664	$8,664	$8,664	$8,664	$8,664	$8,664	$8,664	$8,664	$103,973
(49)	Dominion delivery for GSS	EDA-2	$22,382	$22,382	$22,382	$22,382	$22,382	$22,382	$22,382	$22,382	$22,382	$22,382	$22,382	$22,382	$268,585
(50)	Algonquin delivery for FSS	EDA-2	$16,342	$16,342	$16,342	$16,342	$16,342	$16,342	$16,342	$16,342	$16,342	$16,342	$16,342	$16,342	$196,107
(51)	Columbia Delivery for FSS	EDA-2	$14,145	$14,145	$14,145	$14,145	$14,145	$14,145	$14,145	$14,145	$14,145	$14,145	$14,145	$14,145	$169,741
(52)	Distrigas FLS call payment	EDA-2	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
(53)	Hess Peaking Supply at Salem	EDA-2													
(54)	Hess Peaking Supply at Dracut	EDA-2													
(55)	Repsol Peaking Supply at Dracut	EDA-2													
(56)	Less Credits from Mkter Releases	EDA-2													
(57)	**STORAGE DELIVERY FIXED COST**	sum[(35) (56)]	$435,601	$790,601	$790,601	$779,351	$790,601	$1,064,173	$1,064,173	$1,064,173	$1,064,173	$1,064,173	$1,064,173	$1,064,173	$11,035,965
(58)	**TOTAL STORAGE FIXED**	(34) + (57)	$835,107	$1,190,107	$1,190,107	$1,178,857	$1,190,107	$1,463,678	$1,463,678	$1,463,678	$1,463,678	$1,463,678	$1,463,678	$1,463,678	$15,830,032
(59)	**TOTAL FIXED COSTS**	(20) + (58)	$3,256,674	$3,612,331	$3,610,980	$3,597,759	$3,610,980	$3,883,894	$3,884,551	$3,883,894	$3,884,551	$3,884,551	$3,883,894	$3,884,551	$44,878,613

REDACTED

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
Gas Cost Estimate

Line No	Description (a)	Reference (b)	Nov-13 (c)	Dec-13 (d)	Jan-14 (e)	Feb-14 (f)	Mar-14 (g)	Apr-14 (h)	May-14 (i)	Jun-14 (j)	Jul-14 (k)	Aug-14 (l)	Sep-14 (m)	Oct-14 (n)	Nov-Oct (o)
	VARIABLE SUPPLY COSTS (Includes Injections)														
(60)	Tennessee Zone 0	EDA-2	$0	$612,028	$801,049	$562,957	$342,206	$76,961	$0	$0	$0	$0	$0	$0	$2,395,200
(61)	Tennessee Zone 1	EDA-2	$0	$1,258,533	$1,666,106	$1,172,554	$710,613	$159,133	$0	$0	$0	$0	$0	$0	$4,966,939
(62)	Tennessee Connexion	EDA-2	$1,340,742	[redacted]	[redacted]	[redacted]	[redacted]	$1,383,372	$1,327,776	$1,153,664	$1,446,064	$777,252	$800,281	$1,473,535	$15,417,025
(63)	Tennessee Dracut	EDA-2	$0	[redacted]	[redacted]	[redacted]	[redacted]	$593,640	$540,887	$360,100	$0	$0	$0	$106,935	$7,001,562
(64)	TETCO STX	EDA-2	$0	$568,553	$569,162	$514,316	$0	$298,598	$164,797	$11,236	$11,732	$273,434	$52,733	$11,758	$2,476,318
(65)	TETCO ELA	EDA-2	$0	$1,281,302	$1,286,419	$1,158,668	$0	$671,811	$371,055	$25,322	$26,314	$614,529	$119,079	$26,545	$5,581,044
(66)	TETCO WLA	EDA-2	$0	$892,251	$883,661	$796,317	$0	$463,734	$255,016	$17,109	$17,971	$428,661	$82,144	$18,352	$3,855,217
(67)	TETCO ETX	EDA-2	$0	$382,770	$381,903	$342,504	$0	$199,259	$108,468	$7,485	$7,883	$181,630	$34,966	$7,921	$1,654,789
(68)	TETCO NF	EDA-2	$0	$71,763	$71,866	$64,752	$0	$37,770	$20,850	$1,421	$1,475	$34,415	$6,667	$1,486	$312,465
(69)	M3 Delivered	EDA-2	$5,680,449	$3,006,240	$2,368,690	$1,381,509	$7,104,139	$6,109,377	$3,893,514	$1,981,383	$1,174,131	$1,202,556	$1,668,255	$3,573,273	$39,143,517
(70)	Maumee	EDA-2	$56,895	$3,479,995	$3,546,955	$3,201,290	$3,501,482	$144,426	$0	$159,320	$582,935	$427,426	$0	$55,987	$15,156,711
(71)	Broadrun Col	EDA-2	$0	$1,200,742	$1,223,663	$1,104,762	$1,207,837	$114,831	$0	$0	$0	$14,169	$0	$0	$4,866,003
(72)	Columbia Eagle and Downingtown	EDA-2	$0	$0	$742,338	$24,043	$182,248	$422,941	$188,919	$0	$0	$0	$103,180	$0	$1,663,669
(73)	Transco Zone 2	EDA-2	$0	$16,966	$17,360	$15,620	$0	$0	$0	$0	$0	$0	$0	$0	$49,946
(74)	Dominion to TETCO FTS	EDA-2	$0	$43,831	$43,895	$39,549	$0	$23,068	$12,734	$868	$901	$21,020	$4,072	$908	$190,845
(75)	Transco Zone 3	EDA-2	$0	$361	$368	$332	$0	$0	$0	$0	$0	$0	$0	$0	$1,061
(76)	ANE to Tennessee	EDA-2	$131,310	$137,298	$138,334	$125,734	$139,913	$0	$0	$0	$0	$0	$0	$0	$672,589
(77)	Niagara to Tennessee	EDA-2	$64,434	$139,962	$140,464	$127,852	$142,003	$132,950	$8,746	$0	$0	$0	$0	$75,400	$831,811
(78)	TETCO to B & W	EDA-2	$0	$164,824	$165,020	$148,689	$0	$86,630	$47,819	$3,258	$3,382	$78,906	$15,285	$3,408	$717,220
(79)	DistriGas FCS	EDA-2													$0
(80)	Hubline	EDA-2	$0	$783,522	$1,002,098	$829,212	$0	$0	$0	$0	$0	$0	$0	$0	$2,614,831
(81)	Total Pipeline Commodity Charges	sum[(60) (80)]	$7,273,828	[redacted]	[redacted]	[redacted]	[redacted]	$10,918,501	$6,940,581	$3,721,165	$3,272,788	$4,053,999	$2,886,662	$5,355,508	$109,568,764
(82)	Hedging EDA-2		$868,208	$1,011,138	$559,853	$280,403	$136,263	($123,771)	($42,440)	($81,827)	$8,432	$3,572	($2,387)	$78,281	$2,695,725
(83)	Costs of Injections	EDA-2	$0	$0	$0	$0	$0	($2,443,089)	($1,784,355)	($833,911)	($875,259)	($1,549,847)	($389,894)	($603,887)	($8,480,243)
(84)	Refunds														$0
(85)	**TOTAL VARIABLE SUPPLY COSTS**	sum[(81) (84)]	$8,142,036	[redacted]	[redacted]	[redacted]	[redacted]	$8,351,641	$5,113,785	$2,805,427	$2,405,961	$2,507,724	$2,494,380	$4,829,902	$103,784,247
(86)	Underground Storage	EDA-2	$0	$331,837	$4,405,354	$3,880,653	$633,428	$0	$0	$0	$0	$0	$0	$0	$9,251,272
(87)	LNG Withdrawals and Trucking	EDA-2	$107,113	$111,101	$1,228,951	$100,276	$111,101	$107,113	$111,101	$104,824	$108,727	$108,727	$104,824	$107,531	$2,411,391
(88)	Storage Delivery Costs	EDA-2	$0	$13,373	$191,095	$169,123	$26,405	$0	$0	$0	$0	$0	$0	$0	$399,996
(89)	**TOTAL VARIABLE STORAGE COSTS**	sum[(86) (88)]	$107,113	$456,311	$5,825,399	$4,150,052	$770,935	$107,113	$111,101	$104,824	$108,727	$108,727	$104,824	$107,531	$12,062,659
(90)	**TOTAL VARIABLE COSTS**	(85) + (89)	$8,249,149	[redacted]	[redacted]	[redacted]	[redacted]	$8,458,754	$5,224,887	$2,910,252	$2,514,688	$2,616,451	$2,599,204	$4,937,433	$115,846,905
(91)	**TOTAL SUPPLY COSTS**	(59) + (90)	$11,505,824	[redacted]	[redacted]	[redacted]	[redacted]	$12,342,649	$9,109,438	$6,794,146	$6,399,239	$6,501,003	$6,483,099	$8,821,984	$160,725,518
	Storage Costs for FT-2 Calculation														
(92)	**Storage Fixed Costs - Facilities**	(34)	$399,506	$399,506	$399,506	$399,506	$399,506	$399,506	$399,506	$399,506	$399,506	$399,506	$399,506	$399,506	$4,794,067
(93)	**Storage Fixed Costs - Deliveries**	(57)	$435,601	$790,601	$790,601	$779,351	$790,601	$1,064,173	$1,064,173	$1,064,173	$1,064,173	$1,064,173	$1,064,173	$1,064,173	$11,035,965
(94)	**Total Storage Costs**	sum[(92) (93)]	$835,107	$1,190,107	$1,190,107	$1,178,857	$1,190,107	$1,463,678	$1,463,678	$1,463,678	$1,463,678	$1,463,678	$1,463,678	$1,463,678	$15,830,032

REDACTED

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
GCR Deferred Balances

Line No	Description	Nov-12 actual	Dec-12 actual	Jan-13 actual	Feb-13 actual	Mar-13 actual	Apr-13 actual	May-13 actual	Jun-13 actual	Jul-13 actual	Aug-13 Fcst	Sep-13 Fcst	Oct-13 Fcst	Nov-Oct
(1)	# of Days in Month	30	31	31	28	31	30	31	30	31	31	30	31	365
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)
(2)	I Fixed Cost Deferred													
(3)	Beginning Balance	$9,653,010	$9,225,100	$6,523,415	$988,203	($4,496,567)	($9,366,432)	($12,083,333)	($12,098,295)	($10,643,044)	($8,946,896)	($7,857,964)	($5,927,069)	$9,653,010
(4)	Adjustment- Tennessee Refund Reallocation	($1,141,713)												
(5)	Supply Fixed Costs (net of cap rel)	$3,481,283	$3,170,537	$3,427,815	$3,519,974	$3,464,261	$3,473,570	$3,302,783	$3,457,201	$3,448,816	$3,589,302	$3,588,659	$3,589,302	$41,513,503
(6)	LNG Demand to DAC	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($1,488,790)
(7)	Supply Related LNG O & M	$51,549	$51,549	$51,549	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$586,334
(8)	NGPMP Credits	($383,333)	($383,333)	($1,778,347)	($383,333)	($1,040,996)	($383,333)	($383,333)	($383,333)	($383,333)	($383,333)	($383,333)	($383,333)	($6,652,676)
(9)	Working Capital	$22,600	$20,540	$22,245	$20,417	$19,518	$19,858	$18,845	$19,761	$19,711	$20,544	$20,540	$20,544	$245,121
(10)	Total Supply Fixed Costs	$1,906,321	$2,735,227	$1,599,197	$3,080,957	$2,366,682	$3,033,993	$2,862,194	$3,017,528	$3,009,093	$3,150,412	$3,149,765	$3,150,412	$33,061,779
(11)	Supply Fixed - Revenue	$1,969,654	$5,445,267	$7,138,394	$8,564,047	$7,229,192	$5,739,881	$2,864,327	$1,550,600	$1,302,552	$2,052,564	$1,211,791	$1,463,314	$46,531,583
(12)	Prelim. Ending Balance	$9,589,677	$6,515,060	$984,218	($4,494,886)	($9,359,077)	($12,072,320)	($12,085,466)	($10,631,367)	($8,936,503)	($7,849,049)	($5,919,991)	($4,239,972)	($3,816,794)
(13)	Month's Average Balance	$9,621,343	$7,870,080	$3,753,816	($1,753,342)	($6,927,822)	($10,719,376)	($12,084,400)	($11,364,831)	($9,789,773)	($8,397,973)	($6,888,978)	($5,083,520)	
(14)	Interest Rate (BOA Prime minus 200 bps)	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
(15)	Interest Applied	$9,885	$8,355	$3,985	($1,681)	($7,355)	($11,013)	($12,829)	($11,676)	($10,393)	($8,916)	($7,078)	($5,397)	($54,113)
(16)	Marketer Reconcilation	($374,462)												($374,462)
(17)	Fixed Ending Balance	$9,225,100	$6,523,415	$988,203	($4,496,567)	($9,366,432)	($12,083,333)	($12,098,295)	($10,643,044)	($8,946,896)	($7,857,964)	($5,927,069)	($4,245,368)	($4,245,368)
(18)	II Variable Cost Deferred													
(19)	Beginning Balance	($9,801,393)	($11,805)	$5,871,912	$15,388,373	$21,124,084	$22,072,500	$17,209,139	$15,053,460	$15,222,414	$15,836,644	$13,877,495	$14,207,958	($9,801,393)
(20)	Adjustment- Tennessee Refund Reallocation	$1,141,713												
(21)	Variable Supply Costs	$16,520,419	$19,511,989	$28,143,528	$26,828,501	$18,984,291	$9,316,359	$4,547,178	$3,611,984	$3,593,778	$2,880,592	$2,947,703	$5,147,692	$142,034,014
(22)	Supply Related LNG to DAC	($55,845)	($458)	($534,407)	($165,050)	($31,563)	$0	$0	$0	$0	$0	$0	$0	($787,323)
(23)	Supply Related LNG O & M	$35,844	$35,844	$35,844	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$537,053
(24)	Inventory Financing - LNG	$34,208	$34,176	$22,928	$19,960	$20,542	$27,913	$35,946	$37,377	$36,346	$42,026	$44,316	$44,457	$400,194
(25)	Inventory Financing - UG	$184,635	$166,868	$133,183	$103,888	$101,921	$104,055	$128,247	$135,700	$136,667	$144,495	$145,852	$145,424	$1,630,934
(26)	Working Capital	$109,396	$129,597	$183,284	$158,357	$112,078	$55,232	$26,958	$21,414	$21,306	$17,078	$17,475	$30,518	$882,694
(27)	Total Supply Variable Costs	$17,970,370	$19,878,017	$27,984,360	$26,993,380	$19,234,994	$9,551,283	$4,786,053	$3,854,199	$3,835,821	$3,131,914	$3,203,071	$5,415,816	$145,839,278
(28)	Supply Variable - Revenue	$8,175,744	$13,997,409	$18,479,178	$21,275,167	$18,309,495	$14,434,813	$6,958,849	$3,700,789	$3,238,070	$5,106,827	$2,887,029	$3,535,116	$120,098,485
(29)	Prelim. Ending Balance	($6,766)	$5,868,803	$15,377,094	$21,106,586	$22,049,582	$17,188,971	$15,036,343	$15,206,870	$15,820,166	$13,861,731	$14,193,538	$16,088,657	$15,939,400
(30)	Month's Average Balance	($4,904,080)	$2,928,499	$10,624,503	$18,247,480	$21,586,833	$19,630,735	$16,122,741	$15,130,165	$15,521,290	$14,849,187	$14,035,517	$15,148,307	
(31)	Interest Rate (BOA Prime minus 200 bps)	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
(32)	Interest Applied	($5,038)	$3,109	$11,279	$17,498	$22,918	$20,169	$17,117	$15,545	$16,478	$15,765	$14,420	$16,082	$165,340
(33)	Gas Procurement Incentive/(penalty)	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	
(34)	Variable Ending Balance	($11,805)	$5,871,912	$15,388,373	$21,124,084	$22,072,500	$17,209,139	$15,053,460	$15,222,414	$15,836,644	$13,877,495	$14,207,958	$16,104,739	$16,104,739
(35)	**GCR Deferred Summary**													
(36)	Beginning Balance	($148,383)	$9,213,295	$12,395,327	$16,376,576	$16,627,517	$12,706,068	$5,125,806	$2,955,164	$4,579,371	$6,889,748	$6,019,531	$8,280,889	($148,383)
(37)	Gas Costs	$19,534,723	$22,645,396	$31,000,264	$30,155,049	$22,388,613	$12,761,552	$7,821,584	$7,040,809	$7,014,218	$6,441,517	$6,507,986	$8,708,618	$182,020,329
(38)	Inventory Finance	$218,843	$201,044	$156,111	$123,848	$122,463	$131,968	$164,192	$173,077	$173,012	$186,520	$190,168	$189,881	$2,031,128
(39)	Working Capital	$131,996	$150,137	$205,529	$178,774	$131,597	$75,090	$45,803	$41,174	$41,017	$37,621	$38,015	$51,062	$1,127,815
(40)	NGPMP Credits	($383,333)	($383,333)	($1,778,347)	($383,333)	($1,040,996)	($383,333)	($383,333)	($383,333)	($383,333)	($383,333)	($383,333)	($383,333)	($6,652,676)
(41)	Total Costs	$19,502,229	$22,613,244	$29,583,557	$30,074,338	$21,601,676	$12,585,277	$7,648,246	$6,871,727	$6,844,914	$6,282,326	$6,352,836	$8,566,227	$178,526,595
(42)	Revenue	$10,145,397	$19,442,676	$25,617,572	$29,839,214	$25,538,687	$20,174,694	$9,823,176	$5,251,389	$4,540,622	$7,159,391	$4,098,820	$4,998,430	$166,630,068
(43)	Prelim. Ending Balance	$9,208,449	$12,383,863	$16,361,312	$16,611,700	$12,690,505	$5,116,651	$2,950,877	$4,575,502	$6,883,663	$6,012,682	$8,273,546	$11,848,686	
(44)	Month's Average Balance	$4,530,033	$10,798,579	$14,378,319	$16,494,138	$14,659,011	$8,911,359	$4,038,341	$3,765,333	$5,731,517	$6,451,215	$7,146,539	$10,064,787	
(45)	Interest Rate (BOA Prime minus 200 bps)	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
(46)	Interest Applied	$4,847	$11,464	$15,265	$15,816	$15,563	$9,156	$4,287	$3,868	$6,085	$6,849	$7,342	$10,685	$111,227
(47)	Gas Purchase Plan Incentives/(Penalties)	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
(48)														
(49)	**Ending Bal. W/ Interest**	**$9,213,295**	**$12,395,327**	**$16,376,576**	**$16,627,517**	**$12,706,068**	**$5,125,806**	**$2,955,164**	**$4,579,371**	**$6,889,748**	**$6,019,531**	**$8,280,889**	$\boxed{\textbf{\$11,859,371}}$	$11,859,371

REDACTED

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
GCR - Gas Cost Revenue

Line No	Description (a)	Reference (b)	Nov-13 fcst (c)	Dec-13 fcst (d)	Jan-14 fcst (e)	Feb-14 fcst (f)	Mar-14 fcst (g)	Apr-14 fcst (h)	May-14 fcst (i)	Jun-14 fcst (j)	Jul-14 fcst (k)	Aug-14 fcst (l)	Sep-14 fcst (m)	Oct-14 fcst (n)	Total Nov-Oct (o)
(1)	**I. Fixed Cost Revenue --**														
(2)	(a) Low Load dth	AEL-1 pg 11, sum[Line (2)-(5), (7)]	1,418,075	2,758,290	4,396,501	4,355,280	3,931,818	2,754,413	1,736,273	913,242	593,740	540,693	607,899	712,167	24,718,392
(3)	Fixed Cost Factor	AEL-1 pg 1, (e)1	$1.2236	$1.2236	$1.2236	$1.2236	$1.2236	$1.2236	$1.2236	$1.2236	$1.2236	$1.2236	$1.2236	$1.2236	
(4)	Low Load Revenue	(2) * (3)	$1,735,156	$3,375,044	$5,379,559	$5,329,121	$4,810,973	$3,370,300	$2,124,504	$1,117,443	$726,501	$661,593	$743,825	$871,407	$30,245,426
(5)	(b) High Load dth	AEL-1 pg 11, sum[Line (1), (6), (8)]	87,874	137,873	180,931	183,806	154,146	121,689	103,050	82,002	58,819	59,053	66,328	66,029	1,301,599
(6)	Fixed Cost Factor	AEL-1 pg 1, (d)1	$0.9861	$0.9861	$0.9861	$0.9861	$0.9861	$0.9861	$0.9861	$0.9861	$0.9861	$0.9861	$0.9861	$0.9861	
(7)	High Load Revenue	(5) * (6)	$86,652	$135,956	$178,416	$181,251	$152,003	$119,997	$101,618	$80,863	$58,002	$58,232	$65,406	$65,111	$1,283,507
(8)	sub-total Dth	(2) + (5)	1,505,949	2,896,163	4,577,432	4,539,086	4,085,964	2,876,102	1,839,323	995,244	652,559	599,747	674,227	778,196	26,019,992
(9)	FT-2 Storage Revenue from marketers	[AEL-5 pg 3, Line (5)] / 12	$128,528	$128,528	$128,528	$128,528	$128,528	$128,528	$128,528	$128,528	$128,528	$128,528	$128,528	$128,528	$1,542,334
(10)	**TOTAL Fixed Revenue**	(4) + (7) + (9)	**$1,950,336**	**$3,639,528**	**$5,686,503**	**$5,638,900**	**$5,091,504**	**$3,618,825**	**$2,354,650**	**$1,326,834**	**$913,031**	**$848,353**	**$937,759**	**$1,065,046**	**$33,071,267**
(11)	**II. Variable Cost Revenue --**														
(12)	(a) Firm Sales dth	(8)	1,505,949	2,896,163	4,577,432	4,539,086	4,085,964	2,876,102	1,839,323	995,244	652,559	599,747	674,227	778,196	26,019,992
(13)	Variable Cost Factor	AEL-1 pg 1, Line (2)	$5.1922	$5.1922	$5.1922	$5.1922	$5.1922	$5.1922	$5.1922	$5.1922	$5.1922	$5.1922	$5.1922	$5.1922	
(14)	Variable Revenue	(12) * (13)	$7,819,186	$15,037,460	$23,766,942	$23,567,844	$21,215,141	$14,933,295	$9,550,135	$5,167,506	$3,388,219	$3,114,005	$3,500,719	$4,040,549	$135,101,001
(15)	**TOTAL Variable Revenue**	(14)	**$7,819,186**	**$15,037,460**	**$23,766,942**	**$23,567,844**	**$21,215,141**	**$14,933,295**	**$9,550,135**	**$5,167,506**	**$3,388,219**	**$3,114,005**	**$3,500,719**	**$4,040,549**	**$135,101,001**
(16)	**Total Gas Cost Revenue**	(10) + (15)	**$9,769,522**	**$18,676,988**	**$29,453,445**	**$29,206,744**	**$26,306,645**	**$18,552,120**	**$11,904,785**	**$6,494,340**	**$4,301,250**	**$3,962,358**	**$4,438,478**	**$5,105,595**	**$168,172,268**

REDACTED

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
Working Capital Estimate

Line No.	Description (a)	Source (b)	Nov-13 (c)	Dec-13 (d)	Jan-14 (e)	Feb-14 (f)	Mar-14 (g)	Apr-14 (h)	May-14 (i)	Jun-14 (j)	Jul-14 (k)	Aug-14 (l)	Sep-14 (m)	Oct-14 (n)	Total (o)
(1)	**Fixed Costs**	AEL-3, Line (4)	$3,256,674	$3,612,331	$3,610,980	$3,597,759	$3,610,980	$3,883,894	$3,884,551	$3,883,894	$3,884,551	$3,884,551	$3,883,894	$3,884,551	$44,878,613
(2)	Capacity Release Revenue		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
(3)	Less LNG Demand to DAC	Dkt 4339	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($1,488,790)
(4)	Less Credits		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
(5)	Plus Supply Related LNG O&M Costs	Dkt 4323	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$575,581
(6)	Allowable Working Capital Costs	sum[(1) (5)]	$3,180,574	$3,536,230	$3,534,879	$3,521,659	$3,534,879	$3,807,794	$3,808,451	$3,807,794	$3,808,451	$3,808,451	$3,807,794	$3,808,451	$43,965,405
(7)	Number of Days Lag	Dkt 4323	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	
(8)	Working Capital Requirement	[(6) * (7)] / 365	$187,436	$208,395	$208,316	$207,537	$208,316	$224,399	$224,438	$224,399	$224,438	$224,438	$224,399	$224,438	
(9)	Cost of Capital	Dkt 4323	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	
(10)	Return on Working Capital Requirement	(8) * (9)	$14,133	$15,713	$15,707	$15,648	$15,707	$16,920	$16,923	$16,920	$16,923	$16,923	$16,920	$16,923	
(11)	Weighted Cost of Debt	Dkt 4323	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	
(12)	Interest Expense	(8) * (11)	$5,361	$5,960	$5,958	$5,936	$5,958	$6,418	$6,419	$6,418	$6,419	$6,419	$6,418	$6,419	
(13)	Taxable Income	(10) - (12)	$8,772	$9,753	$9,749	$9,713	$9,749	$10,502	$10,504	$10,502	$10,504	$10,504	$10,502	$10,504	
(14)	1 - Combined Tax Rate	Dkt 4323	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	
(15)	Return and Tax Requirement	(13) / (14)	$1 ,495	$15,004	$14,999	$14,943	$14,999	$16,157	$16,160	$16,157	$16,160	$16,160	$16,157	$16,160	
(16)	**Fixed Working Capital Requirement**	(12) + (15)	$18,856	$20,965	$20,957	$20,878	$20,957	$22,575	$22,578	$22,575	$22,578	$22,578	$22,575	$22,578	$260,649
(17)	**Variable Costs**	AEL-3, Line (19)	$8,249,149	$18,664,818	$25,322,396	$18,163,370	$16,185,502	$8,458,754	$5,224,887	$2,910,252	$2,514,688	$2,616,451	$2,599,204	$4,937,433	$115,846,905
(18)	Less Non-firm Sales														$0
(19)	Less Supply Refunds														$0
(20)	Less Balancing Related LNG Commodity to DAC	Dkt 4339	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
(21)	Plus Supply Related LNG O&M Costs	Dkt 4323	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$572,694
(22)	Allowable Working Capital Costs	sum[(17) (21)]	$8,296,874	$18,712,543	$25,370,121	$18,211,095	$16,233,227	$8,506,479	$5,272,611	$2,957,976	$2,562,412	$2,664,176	$2,646,929	$4,985,158	$116,419,600
(23)	Number of Days Lag	Dkt 4323	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	
(24)	Working Capital Requirement	[(22) * (23)] / 365	$488,947	$1,102,758	$1,495,099	$1,073,207	$956,649	$501,300	$310,723	$174,318	$151,007	$157,004	$155,988	$293,783	
(25)	Cost of Capital	Dkt 4323	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	
(26)	Return on Working Capital Requirement	(24) * (25)	$36,867	$83,148	$112,730	$80,920	$72,131	$37,798	$23,429	$13,144	$11,386	$11,838	$11,761	$22,151	
(27)	Weighted Cost of Debt	Dkt 4323	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	
(28)	Interest Expense	(24) * (27)	$13,984	$31,539	$42,760	$30,694	$27,360	$14,337	$8,887	$4,985	$4,319	$4,490	$4,461	$8,402	
(29)	Taxable Income	(26) - (28)	$22,883	$51,609	$69,971	$50,226	$44,771	$23,461	$14,542	$8,158	$7,067	$7,348	$7,300	$13,749	
(30)	1 - Combined Tax Rate	Dkt 4323	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	
(31)	Return and Tax Requirement	(29) / (30)	$3 ,204	$79,399	$107,647	$77,271	$68,879	$36,094	$22,372	$12,551	$10,872	$11,304	$11,231	$21,152	
(32)	**Variable Working Capital Requirement**	(28) + (31)	$49,188	$110,937	$150,407	$107,965	$96,239	$50,431	$31,259	$17,536	$15,191	$15,795	$15,692	$29,555	$690,195

REDACTED

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing

Storage Fixed Cost Working Capital Calculation for FT-2 Demand Rate (see AEL-5 pg 2)

Line No	Description	Source	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Total
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
(33)	**Storage Fixed Costs**	AEL-1 pg 4, Line (58)	$835,107	$1,190,107	$1,190,107	$1,178,857	$1,190,107	$1,463,678	$1,463,678	$1,463,678	$1,463,678	$1,463,678	$1,463,678	$1,463,678	$15,830,032
(34)	Less LNG Demand to DAC	Dkt 4339	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($1,488,790)
(35)	Less Credits		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
(36)	Plus Supply Related LNG O&M Costs	Dkt 4323	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$575,581
(37)	Allowable Working Capital Costs	sum[(33):(36)]	$759,006	$1,114,006	$1,114,006	$1,102,756	$1,114,006	$1,387,578	$1,387,578	$1,387,578	$1,387,578	$1,387,578	$1,387,578	$1,387,578	$14,916,824
(38)	Number of Days Lag	Dkt 4323	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	
(39)	Working Capital Requirement	[(37) * (38)] / 365	$44,729	$65,650	$65,650	$64,987	$65,650	$81,772	$81,772	$81,772	$81,772	$81,772	$81,772	$81,772	
(40)	Cost of Capital	Dkt 4323	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	
(41)	Return on Working Capital Requirement	(39) * (40)	$3,373	$4,950	$4,950	$4,900	$4,950	$6,166	$6,166	$6,166	$6,166	$6,166	$6,166	$6,166	
(42)	Weighted Cost of Debt	Dkt 4323	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	
(43)	Interest Expense	(39) * (42)	$1,279	$1,878	$1,878	$1,859	$1,878	$2,339	$2,339	$2,339	$2,339	$2,339	$2,339	$2,339	
(44)	Taxable Income	(41) - (43)	$2,093	$3,072	$3,072	$3,041	$3,072	$3,827	$3,827	$3,827	$3,827	$3,827	$3,827	$3,827	
(45)	1 - Combined Tax Rate	Dkt 4323	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	
(46)	Return and Tax Requirement	(44) / (45)	$3,221	$4,727	$4,727	$4,679	$4,727	$5,888	$5,888	$5,888	$5,888	$5,888	$5,888	$5,888	
(47)	**Storage Fixed Working Capital Requirement**	(43) + (46)	$4,500	$6,604	$6,604	$6,538	$6,604	$8,226	$8,226	$8,226	$8,226	$8,226	$8,226	$8,226	$88,435

REDACTED

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
Inventory Finance Estimate

Line No	Description (a)	Source (b)	Nov-13 (c)	Dec-13 (d)	Jan-14 (e)	Feb-14 (f)	Mar-14 (g)	Apr-14 (h)	May-14 (i)	Jun-14 (j)	Jul-14 (k)	Aug-14 (l)	Sep-14 (m)	Oct-14 (n)	Total (o)
(1)	**Storage Inventory Balance**	EDA-2 pg 15	$18,117,591	$17,807,638	$13,668,212	$10,021,728	$9,432,858	$11,918,109	$13,723,792	$14,581,322	$15,459,233	$17,016,140	$17,408,579	$18,007,163	
(2)	Hedging														
(3)	Subtotal	(1) + (2)	$18,117,591	$17,807,638	$13,668,212	$10,021,728	$9,432,858	$11,918,109	$13,723,792	$14,581,322	$15,459,233	$17,016,140	$17,408,579	$18,007,163	
(4)	Cost of Capital	Dkt 4323	7 54%	7 54%	7 54%	7 54%	7 54%	7 54%	7 54%	7 54%	7 54%	7 54%	7 54%	7 54%	
(5)	Return on Working Capital Requirement	(3) * (4)	$1,366,066	$1,342,696	$1,030,583	$755,638	$711,237	$898,625	$1,034,774	$1,099,432	$1,165,626	$1,283,017	$1,312,607	$1,357,740	$13,358,042
(6)	Weighted Cost of Debt	Dkt 4323	2 86%	2 86%	2 86%	2 86%	2 86%	2 86%	2 86%	2 86%	2 86%	2 86%	2 86%	2 86%	
(7)	Interest Charges Financed	(3) * (6)	$518,163	$509,298	$390,911	$286,621	$269,780	$340,858	$392,500	$417,026	$442,134	$486,662	$497,885	$515,005	$5,066,844
(8)	Taxable Income	(5) - (7)	$847,903	$833,397	$639,672	$469,017	$441,458	$557,767	$642,273	$682,406	$723,492	$796,355	$814,721	$842,735	
(9)	1 - Combined Tax Rate	Dkt 4323	0 6500	0 6500	0 6500	0 6500	0 6500	0 6500	0 6500	0 6500	0 6500	0 6500	0 6500	0 6500	
(10)	Return and Tax Requirement	(8) / (9)	$1,304,467	$1,282,150	$984,111	$721,564	$679,166	$858,104	$988,113	$1,049,855	$1,113,065	$1,225,162	$1,253,418	$1,296,516	$12,755,690
(11)	Working Capital Requirement	(7) + (10)	$1,822,630	$1,791,448	$1,375,022	$1,008,186	$948,945	$1,198,962	$1,380,613	$1,466,881	$1,555,199	$1,711,824	$1,751,303	$1,811,521	$17,822,534
(12)	Storage-Related Inventory Costs	(11) / 12	$151,886	$149,287	$114,585	$84,015	$79,079	$99,913	$115,051	$122,240	$129,600	$142,652	$145,942	$150,960	$1,485,211
(13)	**LNG Inventory Balance**	EDA-2 pg 17	$4,952,267	$4,841,166	$3,612,215	$3,511,939	$3,400,838	$3,293,725	$3,978,859	$3,874,034	$3,765,307	$3,656,580	$4,339,856	$4,869,046	
(14)	Cost of Capital	Dkt 4323	7 54%	7 54%	7 54%	7 54%	7 54%	7 54%	7 54%	7 54%	7 54%	7 54%	7 54%	7 54%	
(15)	Return on Working Capital Requirement	(13) * (14)	$373,401	$365,024	$272,361	$264,800	$256,423	$248,347	$300,006	$292,102	$283,904	$275,706	$327,225	$367,126	$3,626,426
(16)	Weighted Cost of Debt	Dkt 4323	2 86%	2 86%	2 86%	2 86%	2 86%	2 86%	2 86%	2 86%	2 86%	2 86%	2 86%	2 86%	
(17)	Interest Charges Financed	(13) * (16)	$141,635	$138,457	$103,309	$100,441	$97,264	$94,201	$113,795	$110,797	$107,688	$104,578	$124,120	$139,255	$1,375,541
(18)	Taxable Income	(15) - (17)	$231,766	$226,567	$169,052	$164,359	$159,159	$154,146	$186,211	$181,305	$176,216	$171,128	$203,105	$227,871	
(19)	1 - Combined Tax Rate	Dkt 4323	0 6500	0 6500	0 6500	0 6500	0 6500	0 6500	0 6500	0 6500	0 6500	0 6500	0 6500	0 6500	
(20)	Return and Tax Requirement	(18) / (19)	$356,563	$348,564	$260,079	$252,860	$244,860	$237,148	$286,478	$278,930	$271,102	$263,274	$312,470	$350,571	$3,462,900
(21)	Working Capital Requirement	(17) + (20)	$498,198	$487,021	$363,389	$353,301	$342,124	$331,349	$400,273	$389,728	$378,790	$367,852	$436,589	$489,826	$4,838,441
(22)	LNG-Related Inventory Costs	(21) / 12	$41,517	$40,585	$30,282	$29,442	$28,510	$27,612	$33,356	$32,477	$31,566	$30,654	$36,382	$40,819	$403,203
(23)	Total Inventory Financing Costs	(12) + (22)	$193,402	$189,872	$144,868	$113,457	$107,589	$127,526	$148,407	$154,717	$161,166	$173,306	$182,324	$191,779	$1,888,415

REDACTED

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
Forecasted Throughput (Dth)

Line No	Rate Class	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-Oct
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)
	SALES													
(1)	Residential Non-Heating	48,298	78,202	111,021	119,337	79,602	64,567	56,216	40,932	31,123	28,396	28,939	35,495	722,127
(2)	Residential Heating	1,055,948	2,069,091	3,227,307	3,227,172	2,949,996	2,054,509	1,275,453	688,829	437,527	393,560	433,919	517,838	18,331,149
(3)	Small C&I	124,881	233,848	444,412	414,368	376,672	269,937	159,601	84,920	59,686	56,067	66,038	65,130	2,355,561
(4)	Medium C&I	186,170	370,627	562,298	543,651	458,524	333,691	238,327	114,110	85,700	82,463	96,679	110,387	3,182,627
(5)	Large LLF	42,606	72,572	138,611	120,494	113,482	81,281	51,268	20,793	8,108	6,150	8,860	15,368	679,593
(6)	Large HLF	19,549	27,341	33,329	30,838	40,345	32,335	29,078	24,298	15,985	17,362	22,925	17,302	310,688
(7)	Extra Large LLF	8,471	12,152	23,873	49,595	33,144	14,996	11,624	4,590	2,719	2,454	2,402	3,444	169,463
(8)	Extra Large HLF	20,026	32,330	36,581	33,631	34,199	24,786	17,756	16,773	11,712	13,295	14,464	13,231	268,785
(9)	**Total Sales**	1,505,949	2,896,163	4,577,432	4,539,086	4,085,964	2,876,102	1,839,323	995,244	652,559	599,747	674,227	778,196	26,019,992
	FT-2 TRANSPORTATION													
(10)	FT-2 Small	2,250	1,677	1,644	2,553	592	301	349	0	334	1,686	1,713	2,024	15,122
(11)	FT-2 Medium	99,416	182,756	229,232	249,175	209,203	148,289	104,886	57,962	44,096	39,692	40,531	58,730	1,463,968
(12)	FT-2 Large LLF	71,916	147,025	210,595	203,883	190,357	133,483	83,410	31,997	14,511	11,871	15,623	33,531	1,148,201
(13)	FT-2 Large HLF	27,348	36,880	43,227	43,445	45,947	35,891	30,471	26,027	20,370	18,515	26,819	21,522	376,461
(14)	FT-2 Extra Large LLF	2,178	5,869	5,957	5,318	5,607	3,892	2,519	580	271	165	307	1,080	33,744
(15)	FT-2 Extra Large HLF	15,340	21,701	21,601	21,564	29,303	20,129	19,681	17,236	14,412	15,764	16,308	15,293	228,331
(16)	**Total FT-2 Transportation**	218,449	395,907	512,256	525,938	481,008	341,986	241,317	133,802	93,993	87,693	101,298	132,180	3,265,827
	FT-1 TRANSPORTATION													
(17)	FT-1 Medium	75,961	89,799	104,946	88,940	67,379	47,458	34,458	26,220	23,512	24,654	28,213	43,268	654,810
(18)	FT-1 Large LLF	112,508	175,072	195,903	164,513	147,152	88,741	51,055	20,787	15,816	15,832	22,628	58,022	1,068,028
(19)	FT-1 Large HLF	47,894	51,467	60,893	53,292	43,961	36,491	33,824	32,265	28,372	32,098	32,029	36,828	489,413
(20)	FT-1 Extra Large LLF	156,341	229,787	253,708	218,727	242,805	113,410	57,857	13,905	10,422	10,486	18,510	75,864	1,401,823
(21)	FT-1 Extra Large HLF	488,352	567,299	608,160	525,332	567,501	445,859	408,806	389,972	393,779	394,024	381,336	430,343	5,600,761
(22)	**Total FT-1 Transportation**	881,056	1,113,424	1,223,610	1,050,804	1,068,798	731,959	586,000	483,150	471,900	477,094	482,716	644,325	9,214,835
	Total THROUGHPUT													
(23)	Residential Non-Heating	48,298	78,202	111,021	119,337	79,602	64,567	56,216	40,932	31,123	28,396	28,939	35,495	722,127
(24)	Residential Heating	1,055,948	2,069,091	3,227,307	3,227,172	2,949,996	2,054,509	1,275,453	688,829	437,527	393,560	433,919	517,838	18,331,149
(25)	Small C&I	127,131	235,525	446,056	416,921	377,264	270,238	159,950	84,920	60,020	57,753	67,751	67,154	2,370,683
(26)	Medium C&I	361,547	643,182	896,477	881,766	735,106	529,439	377,672	198,292	153,309	146,809	165,423	212,386	5,301,406
(27)	Large LLF	227,029	394,669	545,109	488,890	450,991	303,505	185,732	73,578	38,435	33,853	47,110	106,920	2,895,821
(28)	Large HLF	94,792	115,687	137,449	127,574	130,253	104,717	93,374	82,589	64,726	67,975	81,772	75,653	1,176,561
(29)	Extra Large LLF	166,990	247,809	283,538	273,641	281,556	132,298	72,001	19,075	13,411	13,105	21,219	80,389	1,605,030
(30)	Extra Large HLF	523,718	621,329	666,342	580,527	631,002	490,774	446,243	423,981	419,902	423,083	412,107	458,867	6,097,877
(31)	**Total Throughput**	2,605,454	4,405,494	6,313,298	6,115,828	5,635,770	3,950,046	2,666,640	1,612,196	1,218,453	1,164,534	1,258,241	1,554,701	38,500,653

REDACTED

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
Design Winter Period and Design Day Throughput (Dth)

Line No.	Rate Class	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Total	%
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
	SALES (dth)							
(1)	Residential Non-Heating	70,781	110,056	112,404	104,621	94,489	492,351	2.42%
(2)	Residential Heating	1,917,520	3,306,255	3,390,536	3,173,499	2,747,592	14,535,402	71.34%
(3)	Small C&I	245,845	418,267	428,715	400,996	349,014	1,842,836	9.04%
(4)	Medium C&I	329,189	553,915	567,513	530,515	463,778	2,444,910	12.00%
(5)	Large LLF	72,302	131,721	135,348	127,030	107,681	574,081	2.82%
(6)	Large HLF	26,850	35,228	35,704	32,877	32,073	162,733	0.80%
(7)	Extra Large LLF	18,999	34,182	35,107	32,930	28,046	149,264	0.73%
(8)	Extra Large HLF	26,114	38,643	39,384	36,550	33,727	174,418	0.86%
(9)	Total Sales	2,707,601	4,628,266	4,744,712	4,439,018	3,856,399	20,375,996	100.00%
(10)	Low Load Factor	2,583,855	4,444,340	4,557,219	4,264,970	3,696,111	19,546,494	95.93%
(11)	High Load Factor	123,746	183,927	187,493	174,048	160,288	829,502	4.07%

2013/2014 Design Day Sendout

(12)	Pipeline	179,129	Dktherm
(13)	Underground Storage	42,414	Dktherm
(14)	LNG	106,911	Dktherm
(15)	Total Projected 2013/2014 Design Day	328,454	Dktherm

Attachment AEL-2

Attachment AEL-2
Annual GCR Reconciliation Filing

Deferred Gas Cost Balances

Line No	Description	Reference	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Apr-Oct'12
			actual	actual	actual	actual	actual	actual	actual	
(1)	# of Days in Month		30	31	30	31	31	30	31	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
(2)	I Supply Fixed Cost Deferred									
(3)	Beginning Balance[1]		$3,622,411	$3,020,019	$3,892,081	$5,481,140	$6,810,786	$7,739,883	$9,415,840	$3,622,411
(4)	Supply Fixed Costs (net of cap rel)	Sch 2, line (27)	$2,432,548	$2,367,266	$2,621,717	$2,220,707	$2,432,620	$2,479,734	$2,470,943	$17,025,536
(5)	Capacity Release		$0	$0	$0	$0	$0	$0	$0	$0
(6)	NGPMP Credits[2]		($1,040,994)	($326,667)	($326,667)	($326,667)	($1,000,942)	($326,667)	($326,667)	($3,675,270)
(7)	Working Capital	Sch 5, line (13)	$16,144	$15,711	$17,399	$14,738	$16,144	$16,457	$16,399	$112,992
(8)	Total Supply Fixed Costs	sum[(4):(7)]	$1,407,698	$2,056,310	$2,312,450	$1,908,779	$1,447,822	$2,169,524	$2,160,675	$13,463,258
(9)	Supply Fixed - Revenue	Sch 3, line (9)	$2,013,501	$1,187,915	$728,203	$585,654	$526,446	$502,375	$667,503	$6,211,597
(10)	Prelim Ending Balance	(3) + (8) - (9)	$3,016,608	$3,888,414	$5,476,328	$6,804,265	$7,732,163	$9,407,032	$10,909,012	$10,874,072
(11)	Month's Average Balance	[(3) + (10)] / 2	$3,319,510	$3,454,216	$4,684,204	$6,142,703	$7,271,475	$8,573,457	$10,162,426	
(12)	Interest Rate (BOA Prime minus 200 bps)		1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
(13)	Interest Applied	[(11) * (12)] / 365 * (1)	$3,410	$3,667	$4,813	$6,521	$7,720	$8,808	$10,789	$45,728
(14)	GPIP		$0	$0	$0	$0	$0	$0	$0	$0
(15)	Marketer Reconcilation									$0
(16)	Supply Fixed Ending Balance	(10)+(13)+(14)+(15)	$3,020,019	$3,892,081	$5,481,140	$6,810,786	$7,739,883	$9,415,840	$10,919,801	$10,919,801
(17)	II Storage Fixed Cost Deferred									
(18)	Beginning Balance[1]		($3,655,954)	($3,706,601)	($3,434,575)	($3,319,121)	($2,842,091)	($2,198,728)	($1,709,644)	($3,655,954)
(19)	Storage Fixed Costs	Sch 2, line (67)	$782,521	$774,727	$436,007	$727,807	$854,264	$693,819	$706,011	$4,975,156
(20)	LNG Demand to DAC	Dkt 4269	($52,389)	($52,389)	($52,389)	($52,389)	($52,389)	($52,389)	($52,389)	($366,723)
(21)	Supply Related LNG O & M	Rate Case	$51,549	$51,549	$51,549	$51,549	$51,549	$51,549	$51,549	$360,845
(22)	Working Capital	Sch 5, line (27)	$5,188	$5,136	$2,888	$4,825	$5,664	$4,599	$4,680	$32,979
(23)	Total Storage Fixed Costs	sum[(19):(22)]	$786,869	$779,023	$438,055	$731,792	$859,088	$697,578	$709,851	$5,002,256
(24)	Storage Fixed - Revenue	Sch 3, line (21)	$833,736	$503,208	$319,134	$251,493	$213,051	$206,487	$265,419	$2,592,527
(25)	Prelim Ending Balance	(18) + (23) - (24)	($3,702,821)	($3,430,786)	($3,315,653)	($2,838,822)	($2,196,054)	($1,707,637)	($1,265,211)	($1,246,225)
(26)	Month's Average Balance	[(18) + (25)] / 2	($3,679,387)	($3,568,694)	($3,375,114)	($3,078,972)	($2,519,072)	($1,953,183)	($1,487,428)	
(27)	Interest Rate (BOA Prime minus 200 bps)		1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	$0	
(28)	Interest Applied	[(26) * (27)] / 365 * (1)	($3,780)	($3,789)	($3,468)	($3,269)	($2,674)	($2,007)	($1,579)	($20,565)
(29)	Storage Fixed Ending Balance	(25) + (28)	($3,706,601)	($3,434,575)	($3,319,121)	($2,842,091)	($2,198,728)	($1,709,644)	($1,266,791)	($1,266,791)
(30)	III Supply Variable Cost Deferred									
(31)	Beginning Balance[1]		($8,665,808)	($11,848,485)	($12,930,287)	($13,999,720)	($14,370,561)	($13,866,945)	($14,314,221)	($8,665,808)
(32)	Variable Supply Costs	Sch 2, line (120)	$8,531,790	$5,942,935	$3,203,739	$3,097,745	$3,631,064	$2,550,396	$3,620,919	$30,578,587
(33)	Variable Delivery Storage	Sch 2, line (105)	($1,764)	($1,716)	($2,756)	($2,196)	($1,093)	($916)	($1,320)	($11,761)
(34)	Variable Injections Storage	Sch 2, line (106)	($6,359)	($9,612)	($5,558)	($4,822)	($4,514)	($5,065)	($4,883)	($40,812)
(35)	Fuel Cost Allocated to Storage	Sch 2, line (107)	($10,078)	($14,899)	($9,989)	($9,500)	($9,821)	($9,742)	($9,521)	($73,551)
(36)	Working Capital	Sch 5, line (43)	$56,501	$39,267	$21,140	$20,449	$23,996	$16,822	$23,926	$202,101
(37)	Total Supply Variable Costs	sum[(32):(36)]	$8,570,090	$5,955,975	$3,206,576	$3,101,676	$3,639,631	$2,551,494	$3,629,122	$30,654,564
(38)	Supply Variable - Revenue	Sch 3, line (36)	$11,743,654	$7,026,260	$4,262,652	$3,457,510	$3,117,892	$2,982,775	$3,945,697	$36,536,441
(39)	Deferred Responsibility		($1,420)	($1,629)	($471)	($45)	$3,142	$1,527	($477)	$626
(40)	Prelim Ending Balance	(31) + (37) - (38) - (39)	($11,837,952)	($12,917,141)	($13,985,893)	($14,355,509)	($13,851,963)	($14,299,752)	($14,630,319)	($14,548,311)
(41)	Month's Average Balance	[(31) + (40)] / 2	($10,251,880)	($12,382,813)	($13,458,090)	($14,177,614)	($14,111,262)	($14,083,348)	($14,472,270)	
(42)	Interest Rate (BOA Prime minus 200 bps)		1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
(43)	Interest Applied	[(41) * (42)] / 365 * (1)	($10,533)	($13,146)	($13,827)	($15,052)	($14,981)	($14,469)	($15,364)	($97,372)
(44)	Gas Procurement Incentive/(penalty)[3]		$0	$0	$0	$0	$0	$0	$355,884	$355,884
(45)	Supply Variable Ending Balance	(40) + (43) + (44)	($11,848,485)	($12,930,287)	($13,999,720)	($14,370,561)	($13,866,945)	($14,314,221)	($14,289,799)	($14,289,799)

Deferred Gas Cost Balances

Line No	Description	Reference	Apr-12 actual	May-12 actual	Jun-12 actual	Jul-12 actual	Aug-12 actual	Sep-12 actual	Oct-12 actual	Apr-Oct'12
(1)	# of Days in Month		30	31	30	31	31	30	31	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
(46)	IV Storage Variable Product Cost Deferred									
(47)	Beginning Balance[1]		$7,189,013	$5,581,359	$6,314,234	$4,703,516	$4,795,321	$4,748,538	$4,663,393	$7,189,013
(48)	Storage Variable Prod Costs - LNG	Sch 2, line (98)	$81,388	$73,019	$96,291	$117,174	$95,605	$84,405	$86,177	$634,059
(49)	Storage Variable Prod Costs - LP		$0	$0	$0	$0	$0	$0	$0	$0
(50)	Storage Variable Prod Costs - UG	Sch 2, line (97) - (66)	$317,500	$1,751,151	($1,117,579)	$390,861	$201,916	$139,240	$253,218	$1,936,307
(51)	Supply Related LNG to DAC	Dkt 4269	($14,747)	($13,231)	($17,448)	($21,232)	($17,324)	($15,294)	($15,615)	($114,891)
(52)	Supply Related LNG O & M	Rate Case	$35,844	$35,844	$35,844	$35,844	$35,844	$35,844	$35,844	$250,909
(53)	Inventory Financing - LNG	Sch 4, line (25)	$22,626	$22,303	$25,323	$26,583	$29,052	$28,930	$28,870	$183,687
(54)	Inventory Financing - UG	Sch 4, line (12)	$137,160	$147,763	$174,044	$181,249	$184,096	$193,361	$196,039	$1,213,711
(55)	Inventory Financing - LP		$0	$0	$0	$0	$0	$0	$0	$0
(56)	Working Capital	Sch 5, line (57)	$2,787	$12,256	($6,656)	$3,469	$2,097	$1,621	$2,387	$17,961
(57)	Total Storage Variable Product Costs	sum[(48):(56)]	$582,557	$2,029,106	($810,181)	$733,948	$531,287	$468,106	$586,920	$4,121,742
(58)	Storage Variable Product Revenue	Sch 3, line (40)	$2,196,768	$1,302,541	$806,194	$647,183	$583,134	$558,083	$737,866	$6,831,768
(59)	Prelim Ending Balance	(47) + (57) - (58)	$5,574,802	$6,307,923	$4,697,860	$4,790,282	$4,743,474	$4,658,561	$4,512,447	$4,478,987
(60)	Month's Average Balance	[(47) + (59)] / 2	$6,381,907	$5,944,641	$5,506,047	$4,746,899	$4,769,398	$4,703,549	$4,587,920	
(61)	Interest Rate (BOA Prime minus 200 bps)		1 25%	1 25%	1 25%	1 25%	1 25%	1 25%	1 25%	
(62)	Interest Applied	[(60) * (61)] / 365 * (1)	$6,557	$6,311	$5,657	$5,040	$5,063	$4,832	$4,871	$38,331
(63)	Storage Variable Product Ending Bal	(59) + (62)	$5,581,359	$6,314,234	$4,703,516	$4,795,321	$4,748,538	$4,663,393	$4,517,318	$4,517,318
(64)	V Storage Variable Non-Product Cost Deferred									
(65)	Beginning Balance[1]		$29,222	($21,676)	($32,647)	($29,422)	($25,209)	($24,826)	($24,399)	$29,222
(66)	Storage Variable Non-prod Costs		$8,386	$7,661	$12,060	$9,495	$4,700	$3,892	$5,614	$51,808
(67)	Variable Delivery Storage Costs	-(33)	$1,764	$1,716	$2,756	$2,196	$1,093	$916	$1,320	$11,761
(68)	Variable Injection Storage Costs	-(34)	$6,359	$9,612	$5,558	$4,822	$4,514	$5,065	$4,883	$40,812
(69)	Fuel Costs Allocated to Storage	-(35)	$10,078	$14,899	$9,989	$9,500	$9,821	$9,742	$9,521	$73,551
(70)	Working Capital	Sch 5, line (70)	$176	$225	$202	$173	$134	$130	$142	$1,181
(71)	Total Storage Var Non-product Costs	sum[(66):(70)]	$26,763	$34,113	$30,565	$26,185	$20,262	$19,746	$21,479	$179,113
(72)	Storage Var Non-Product Revenue	Sch 3, line (49)	$77,664	$45,055	$27,309	$21,943	$19,852	$19,295	$25,963	$237,080
(73)	Prelim Ending Balance	(65) + (71) - (72)	($21,679)	($32,618)	($29,390)	($25,180)	($24,799)	($24,374)	($28,883)	($28,746)
(74)	Month's Average Balance	[(65) + (73)] / 2	$3,771	($27,147)	($31,019)	($27,301)	($25,004)	($24,600)	($26,641)	
(75)	Interest Rate (BOA Prime minus 200 bps)		1 25%	1 25%	1 25%	1 25%	1 25%	1 25%	1 25%	
(76)	Interest Applied	[(74) * (75)] / 365 * (1)	$4	($29)	($32)	($29)	($27)	($25)	($28)	($166)
(77)	Storage Var Non-Product Ending Bal	(73) + (76)	($21,676)	($32,647)	($29,422)	($25,209)	($24,826)	($24,399)	($28,911)	($28,911)
(78)	**GCR Deferred Summary**									
(79)	Beginning Balance	(3)+(18)+(31)+(47)+(65)	($1,481,116)	($6,975,384)	($6,191,194)	($7,163,606)	($5,631,754)	($3,602,078)	($1,969,031)	($1,481,116)
(80)	Gas Costs	sum[(4),(5),(15),(19):(21),(32):(35),(48) (55),(66):(69)]	$12,334,175	$11,108,598	$5,469,158	$6,785,393	$7,450,998	$6,193,486	$7,387,181	$56,728,989
(81)	NGPMP Credits[2]	(6)	($1,040,994)	($326,667)	($326,667)	($326,667)	($1,000,942)	($326,667)	($326,667)	($3,675,270)
(82)	Working Capital	(7)+(22)+(36)+(56)+(70)	$80,796	$72,595	$34,973	$43,653	$48,035	$39,628	$47,533	$367,213
(83)	Total Costs	sum[(80):(82)]	$11,373,977	$10,854,526	$5,177,465	$6,502,379	$6,498,091	$5,906,447	$7,108,047	$53,420,932
(84)	Revenue	Sch 3, line (51)	$16,863,904	$10,063,350	$6,143,020	$4,963,738	$4,463,516	$4,270,540	$5,641,971	$52,410,039
(85)	Prelim Ending Balance	(79) + (83) - (84)	($6,971,043)	($6,184,208)	($7,156,749)	($5,624,965)	($3,597,179)	($1,966,171)	($502,955)	($470,223)
(86)	Month's Average Balance	[(79) + (85)] / 2	($4,226,079)	($6,579,796)	($6,673,971)	($6,394,286)	($4,614,466)	($2,784,125)	($1,235,993)	
(87)	Interest Rate (BOA Prime minus 200 bps)		1 25%	1 25%	1 25%	1 25%	1 25%	1 25%	1 25%	
(88)	Interest Applied	(13)+(28)+(43)+(62)+(76)	($4,342)	($6,985)	($6,857)	($6,788)	($4,899)	($2,860)	($1,312)	($34,044)
(89)	Gas Procurement Incentive/(penalty)[3]	(44)	$0	$0	$0	$0	$0	$0	$355,884	$355,884
(90)	**Ending Bal. W/ Interest [4]**	(85) + (88) + (89)	($6,975,384)	($6,191,194)	($7,163,606)	($5,631,754)	($3,602,078)	($1,969,031)	($148,383)	($148,383)

[1] Ending balances in Attachment 1 of Annual Gas Cost Recovery Reconciliation Report filed on August 1, 2012

[2] Based on Docket No 4038 National Grid Natural Gas Portfolio Management Plan quarterly and annual filings

[3] As approved in Docket No 4346 Gas Cost Recovery Filing

[4] Represents under/(over)-recovery

National Grid
Rhode Island - Gas

Attachment I

Supply Estimate and Actuals for Filing

Line No	Description (a)	Reference (b)	Apr-12 actual (c)	May-12 actual (d)	Jun-12 actual (e)	Jul-12 actual (f)	Aug-12 actual (g)	Sep-12 actual (h)	Oct-12 actual (i)	Apr-Oct'12 (j)
(1)	**SUPPLY FIXED COSTS - Pipeline Delivery**									
(2)	Algonquin		$854,731	$714,262	$213,577	$902,244	$871,178	$870,363	$874,052	$5,300,408
(3)	Alberta Northeast		$539	$516	$495	$499	$541	$592	$552	$3,734
(4)	Texas Eastern		$762,149	$781,929	$940,981	$716,124	$854,450	$857,131	$859,519	$5,772,282
(5)	TETCO		$0	$0	$0	$0	$0	$0	$0	$0
(6)	Tennessee		$984,807	$1,116,884	$530,724	$976,370	$1,016,446	$1,016,219	$1,015,024	$6,656,473
(7)	NETNE									$0
(8)	Iroquois		$6,676	$0	$6,066	$6,676	$6,686	$6,686	$6,676	$39,468
(9)	Union		$2,528	$2,529	$2,485	$2,444	$2,470	$2,460	$2,566	$17,482
(10)	Transcanada									$0
(11)	Dominion		$2,311	$2,311	$85,698	$0	$4,623	$2,311	$2,311	$99,566
(12)	Transco		$22,766	($9,708)	$6,552	$6,432	$6,618	$6,404	$6,404	$45,468
(13)	National Fuel		$4,182	$4,182	$4,663	$5,143	$4,182	$5,139	$4,663	$32,156
(14)	Columbia		$306,213	$302,680	$203,707	$288,676	$262,468	$319,659	$305,438	$1,988,842
(15)	Hubline									$0
(16)	Westerly Lateral		$56,324	$56,324	$53,326	$56,326	$56,324	$56,324	$56,324	$391,271
(17)	BG LNG Energy		$38,924	$11,475	$38,924	($27,045)	$269	($327)	$0	$62,219
(18)	NJR Energy				$208,759	$0	$0	$0	$0	$208,759
(19)	Louis Dreyfus Energy				$1,063,471	$0	$0	$0	$0	$1,063,471
(20)	GDF Seuz		$0	$0	$0	$0	$0	$0	$0	$0
(21)	East to West									$0
(22)	Less Credits from Mkter Releases		($609,603)	($616,118)	($737,711)	($713,183)	($653,633)	($663,227)	($662,587)	($4,656,062)
(23)	**TOTAL SUPPLY FIXED COSTS - Pipeline**	sum[(2):(22)]	2,432,548	2,367,266	2,621,717	2,220,707	2,432,620	2,479,734	2,470,943	$17,025,536
(24)	**Supplier**									
(25)	Distrigas FCS		$0	$0	$0	$0	$0	$0	$0	$0
(26)	**Total**	(25)	$0	$0	$0	$0	$0	$0	$0	$0
(27)	**Total Supply Fixed (Pipeline & Supplier)**	(23) + (26)	$2,432,548	$2,367,266	$2,621,717	$2,220,707	$2,432,620	$2,479,734	$2,470,943	$17,025,536
(28)	**STORAGE FIXED COSTS - Facilities**									
(29)	Texas Eastern SS-1 Demand		$88,182	($296)	$0	$87,781	$97,176	($9,205)	$0	$263,637
(30)	Texas Eastern SS-1 Capacity									$0
(31)	Texas Eastern FSS-1 Demand									$0
(32)	Texas Eastern FSS-1 Capacity									$0
(33)	Dominion GSS Demand		$83,283	$100,500	$0	$83,387	$83,387	$83,387	$83,387	$517,330
(34)	Dominion GSS Capiacity									$0
(35)	Dominion GSS-TE Demand									$0
(36)	Dominion GSS-TE Capacity									$0
(37)	Tennessee FSMA Demand		$49,804	$43,128	$54,891	$49,804	$49,804	$54,496	$49,804	$351,730
(38)	Tennessee FSMA Capacity									$0
(39)	Columbia FSS Demand		$0	$0	$0	$8,775	$19,459	$10	$0	$28,244
(40)	Columbia FSS Capacity									$0
(41)	Iroquois		$0	($11,046)	$0	($614)	$0	$0	$0	($11,660)
(42)	Repsol		$0	$0	$0	$0	$0	$0	$0	$0
(43)	Keyspan LNG Tank Lease Payment		$163,740	$163,740	$163,740	$163,740	$163,740	$163,740	$163,740	$1,146,180
(44)	**STORAGE FACILITIES FIXED COST $**	sum[(29):(43)]	$385,009	$296,024	$218,631	$392,872	$413,566	$292,428	$296,931	$2,295,462

National Grid
Rhode Island - Gas

Attachment I

Supply Estimate and Actuals for Filing

Line No	Description (a)	Reference (b)	Apr-12 actual (c)	May-12 actual (d)	Jun-12 actual (e)	Jul-12 actual (f)	Aug-12 actual (g)	Sep-12 actual (h)	Oct-12 actual (i)	Apr-Oct'12 (j)
(45)	**STORAGE FIXED COSTS - Delivery**									
(46)	Algonquin for TETCO SS-1		$137,174	$197,016	$0	$67,083	$136,721	$136,808	$138,133	$812,935
(47)	Algonquin delivery for FSS									$0
(48)	TETCO delivery for FSS									$0
(49)	Algonquin SCT for SS-1									$0
(50)	Algonquin delivery for GSS, GSS-TE,									$0
(51)	Algonquin SCT delivery for GSS-TE									$0
(52)	Algonquin delivery for GSS Conv									$0
(53)	Tennessee delivery for GSS		$91,993	$91,993	$91,993	$91,993	$91,993	$91,993	$91,993	$643,953
(54)	Tennessee delivery for FSMA									$0
(55)	TETCO delivery for GSS		$42,962	$64,310	$0	$42,962	$64,244	$53,571	$53,571	$321,620
(56)	TETCO delivery for GSS-TE									$0
(57)	TETCO delivery for GSS-TE									$0
(58)	TETCO delivery for GSS Conv									$0
(59)	Dominion delivery for GSS Conv									$0
(60)	Dominion delivery for GSS									$0
(61)	Algonquin delivery for FSS									$0
(62)	Columbia Delivery for FSS					$7,514	$22,356	($6,364)	$0	$23,506
(63)	Distrigas FLS call payment		$125,383	$125,383	$125,383	$125,383	$125,383	$125,383	$125,383	$877,680
(64)	National Fuel									$0
(65)	VPEM		$0	$0	$0	$0	$0	$0	$0	$0
(66)	**STORAGE DELIVERY FIXED COST $**	sum[(46):(65)]	$397,512	$478,702	$217,376	$334,935	$440,698	$401,391	$409,080	$2,679,694
(67)	**TOTAL STORAGE FIXED**	(44) + (66)	$782,521	$774,727	$436,007	$727,807	$854,264	$693,819	$706,011	$4,975,156
(68)	**TOTAL FIXED COSTS**	(27) + (67)	$3,215,069	$3,141,993	$3,057,724	$2,948,514	$3,286,884	$3,173,552	$3,176,954	$22,000,691

National Grid
Rhode Island - Gas

Attachment I

Supply Estimate and Actuals for Filing

Line No	Description (a)	Reference (b)	Apr-12 actual (c)	May-12 actual (d)	Jun-12 actual (e)	Jul-12 actual (f)	Aug-12 actual (g)	Sep-12 actual (h)	Oct-12 actual (i)	Apr-Oct'12 (j)
(69)	**SUPPLY VARIABLE COSTS (Includes Injections)**									
(70)	Tennessee Zone 0									$0
(71)	Tennessee Zone 1									$0
(72)	Tennessee Connexion									$0
(73)	Tennessee Dracut									$0
(74)	TETCO STX									$0
(75)	TETCO ELA									$0
(76)	TETCO WLA									$0
(77)	TETCO ETX									$0
(78)	TETCO NF									$0
(79)	M3 Delivered									$0
(80)	Maumee									$0
(81)	Broadrun Col									$0
(82)	Columbia Eagle and Downingtown									$0
(83)	Transco Zone 2									$0
(84)	Dominion to TETCO FTS									$0
(85)	Transco Zone 3									$0
(86)	ANE to Tennessee									$0
(87)	Niagara to Tennessee									$0
(88)	TETCO to B & W									$0
(89)	DistriGas FCS									$0
(90)	Hubline									$0
(91)	Total Pipeline Commodity Charges	sum[(70):(90)]	$3,216,941	$2,076,973	$1,264,482	$1,442,334	$1,922,137	$1,872,555	$1,885,191	$13,680,613
(92)	Hedging		$5,188,071	$3,003,155	$1,626,411	$1,325,002	$1,572,942	$1,041,775	$1,473,520	$15,230,876
(93)	Costs of Injections									$0
(94)	Refunds (Tennessee)									$0
(95)	**TOTAL SUPPLY VARIABLE COSTS**	sum[(91):(94)]	$8,405,011	$5,080,129	$2,890,893	$2,767,336	$3,495,078	$2,914,331	$3,358,712	$28,911,489

National Grid
Rhode Island - Gas

Attachment I

Supply Estimate and Actuals for Filing

Line No	Description (a)	Reference (b)	Apr-12 actual (c)	May-12 actual (d)	Jun-12 actual (e)	Jul-12 actual (f)	Aug-12 actual (g)	Sep-12 actual (h)	Oct-12 actual (i)	Apr-Oct'12 (j)
(96)	**STORAGE VARIABLE COSTS**									
(97)	Underground Storage		$325,885	$1,758,812	($1,105,519)	$400,356	$206,616	$143,132	$253,218	$1,982,500
(98)	LNG Withdrawals and Trucking		$81,388	$73,019	$96,291	$117,174	$95,605	$84,405	$86,177	$634,059
(99)	**TOTAL STORAGE VARIABLE COSTS**	(97) + (98)	$407,273	$1,831,831	($1,009,228)	$517,530	$302,221	$227,537	$339,395	$2,616,559
(100)	**TOTAL VARIABLE COSTS**	(95) + (99)	$8,812,284	$6,911,960	$1,881,664	$3,284,866	$3,797,300	$3,141,868	$3,698,106	$31,528,048
(101)	**TOTAL SUPPLY COSTS**	(68) + (100)	$12,027,354	$10,053,953	$4,939,388	$6,233,380	$7,084,184	$6,315,420	$6,875,061	$53,528,739
(102)	**Storage Costs for FT-2 Calculation**									
(103)	**Storage Fixed Costs - Facilities**		$385,009	$296,024	$218,631	$392,872	$413,566	$292,428	$296,931	$2,295,462
(104)	**Storage Fixed Costs - Deliveries**		$397,512	$478,702	$217,376	$334,935	$440,698	$401,391	$409,080	$2,679,694
(105)	**Variable Delivery Costs**		$1,764	$1,716	$2,756	$2,196	$1,093	$916	$1,320	$11,761
(106)	**Variable Injection/withdrawal Costs**		$6,359	$9,612	$5,558	$4,822	$4,514	$5,065	$4,883	$40,812
(107)	**Fuel Costs Allocated to Storage**		$10,078	$14,899	$9,989	$9,500	$9,821	$9,742	$9,521	$73,551
(108)	**Total Storage Costs**	sum[(103):(107)]	$800,722	$800,954	$454,311	$744,325	$869,692	$709,542	$721,735	$5,101,280
(109)	Pipeline Variable	(95)	$8,405,011	$5,080,129	$2,890,893	$2,767,336	$3,495,078	$2,914,331	$3,358,712	$28,911,489
(110)	Less Non-firm Gas Costs[1]		$95,772	$64,990	$57,189	$51,245	$39,678	$33,049	$48,056	$389,978
(111)	Less Company Use[1]		$21,768	$10,900	$20,735	$4,074	$4,436	$9,259	$7,614	$78,784
(112)	Less Manchester St Balancing[1]		$36,338	$12,562	$9,044	$9,100	$9,298	$8,512	$5,852	$90,706
(113)	Plus Cashout[1]									$0
(114)	Less Mkter Over-takes[1]		$0	$0	$0	$0	$0	$0	$0	$0
(115)	Less Mkter Withdrawals[1]		($69,479)	($552,280)	($181,095)	($202,999)	$4,601	$523,769	($154,784)	($632,268)
(116)	Plus Mkter Undertakes[1]		$31,598	$227,657	$42,380	$21,460	$18,739	$38,365	($630)	$379,568
(117)	Plus Mkter Injections[1]									$0
(118)	Storage Service Charge[1]									$0
(119)	Plus Pipeline Srchg/Credit[1]		$179,580	$171,321	$176,338	$170,369	$175,259	$172,289	$169,575	$1,214,731
(120)	**TOTAL FIRM COMMODITY COSTS**	sum[(109):(119)]	$8,531,790	$5,942,935	$3,203,739	$3,097,745	$3,631,064	$2,550,396	$3,620,919	$30,578,587

[1] Derived from Company's billing system

National Grid
Rhode Island - Gas

Attachment I

Schedule 3
Page 1 of 1

GCR Revenue

Line No	Description (a)	Reference (b)	Apr-12 actual (c)	May-12 actual (d)	Jun-12 actual (e)	Jul-12 actual (f)	Aug-12 actual (g)	Sep-12 actual (h)	Oct-12 actual (i)	Apr-Oct'12 (j)
(1)	**I. Supply Fixed Cost Revenue --**									
(2)	(a) Low Load dth	Sch 6, line 4-8, 10, 14, 15, 17	2,073,483	1,210,889	726,222	585,253	524,843	502,819	667,468	6,290,976
(3)	Supply Fixed Cost Factor	(4) / (2)	$0 9404	$0 9397	$0 9399	$0 9419	$0 9391	$0 9292	$0 9407	
(4)	Low Load Revenue[1]		$1,949,920	$1,137,839	$682,577	$551,269	$492,871	$467,221	$627,861	$5,909,558
(5)	(b) High Load dth	Sch 6, line 2, 3, 9, 11, 16, 18	100,294	78,782	71,896	52,151	52,917	55,399	60,837	472,276
(6)	Supply Fixed Cost Factor	(7) / (5)	$0 6339	$0 6356	$0 6346	$0 6593	$0 6345	$0 6346	$0 6516	
(7)	High Load Revenue[1]		$63,581	$50,076	$45,626	$34,385	$33,575	$35,154	$39,643	$302,039
(8)	sub-total Dth	(2) + (5)	2,173,777	1,289,670	798,118	637,404	577,761	558,218	728,304	6,763,251
(9)	**TOTAL Supply Fixed Revenue**	(4) + (7)	**$2,013,501**	**$1,187,915**	**$728,203**	**$585,654**	**$526,446**	**$502,375**	**$667,503**	**$6,211,597**
(10)	**II. Storage Fixed Cost Revenue --**									
(11)	(a) Low Load dth	(2)	2,073,483	1,210,889	726,222	585,253	524,843	502,819	667,468	6,290,976
(12)	Storage Fixed Cost Factor	(13) / (11)	$0 3363	$0 3361	$0 3362	$0 3369	$0 3359	$0 3323	$0 3364	
(13)	Low Load Revenue[1]		$697,407	$406,960	$244,130	$197,167	$176,280	$167,106	$224,560	$2,113,610
(14)	(b) High Load dth	(5)	100,294	78,782	71,896	52,151	52,917	55,399	60,837	472,276
(15)	Storage Fixed Cost Factor	(16) / (14)	$0 2204	$0 2210	$0 2206	$0 2292	$0 2206	$0 2206	$0 2266	
(16)	High Load Revenue[1]		$22,106	$17,409	$15,863	$11,955	$11,673	$12,222	$13,783	$105,011
(17)	(c) FT-2 dth	Sch 6, line 26	338,790	168,735	85,720	69,474	65,209	71,966	109,807	909,702
(18)	Storage Fixed Cost Factor	(19) / (17)	$0 3372	$0 4672	$0 6899	$0 6099	$0 3849	$0 3774	$0 2466	
(19)	FT-2 Revenue[1]		$114,223	$78,839	$59,141	$42,372	$25,097	$27,159	$27,076	$373,906
(20)	sub-total Dth	(11) + (14) + (17)	2,512,567	1,458,405	883,838	706,878	642,970	630,184	838,112	7,672,954
(21)	**TOTAL Storage Fixed Revenue**	(13) + (16) + (19)	**$833,736**	**$503,208**	**$319,134**	**$251,493**	**$213,051**	**$206,487**	**$265,419**	**$2,592,527**
(22)	**III. Variable Supply Cost Revenue --**									
(23)	(a) Firm Sales dth	(8)	2,173,777	1,289,670	798,118	637,404	577,761	558,218	728,304	6,763,251
(24)	Variable Supply Cost Factor	(25) / (23)	$5 3862	$5 3830	$5 3838	$5 4116	$5 3794	$5 3285	$5 3998	
(25)	Variable Supply Revenue[1]		$11,708,417	$6,942,323	$4,296,881	$3,449,378	$3,108,008	$2,974,491	$3,932,704	$36,412,201
(26)	(b) TSS Sales dth	Sch 6, line 19	8,457	8,600	(106)	926	492	469	6,320	25,156
(27)	TSS Surcharge Factor		$0 0000	$0 0000	$0 0000	$0 0000	$0 0000	$0 0000	$0 0000	
(28)	TSS Surcharge Revenue	(26) * (27)	$0	$0	$0	$0	$0	$0	$0	$0
(29)	(c) NGV Sales dth		0	0	0	0	0	0	0	0
(30)	Variable Supply Cost Factor		$0 0000	$0 0000	$0 0000	$0 0000	$0 0000	$0 0000	$0 0000	
(31)	Variable Supply Revenue	(29) * (30)	$0	$0	$0	$0	$0	$0	$0	$0
(32)	(d) Default Sales dth	Sch 6, line 56	4,187	11,286	(4,444)	1,056	1,283	1,076	1,687	16,131
(33)	Variable Supply Cost Factor		$7 7018	$7 4371	$7 7019	$7 7029	$7 7022	$7 7026	$7 7020	
(34)	Variable Supply Revenue	(32) * (33)	$35,237	$83,937	($34,229)	$8,132	$9,884	$8,284	$12,993	$124,239
(35)	(e) Peaking Gas Revenue									$0
(36)	**TOTAL Variable Supply Revenue**	(25)+(28)+(31)+(34)+(35)	**$11,743,654**	**$7,026,260**	**$4,262,652**	**$3,457,510**	**$3,117,892**	**$2,982,775**	**$3,945,697**	**$36,536,441**
(37)	**IV. Storage Variable Product Cost Revenue --**									
(38)	(a) Firm Sales dth	(8)	2,173,777	1,289,670	798,118	637,404	577,761	558,218	728,304	6,763,251
(39)	Variable Supply Cost Factor	(40) / (38)	$1 0106	$1 0100	$1 0101	$1 0153	$1 0093	$0 9998	$1 0131	
(40)	**TOTAL Stor Var Product Revenue[1]**		**$2,196,768**	**$1,302,541**	**$806,194**	**$647,183**	**$583,134**	**$558,083**	**$737,866**	**$6,831,768**
(41)	**V. Storage Variable Non-product Cost Revenue --**									
(42)	(a) Firm Sales dth	(8)	2,173,777	1,289,670	798,118	637,404	577,761	558,218	728,304	6,763,251
(43)	Variable Supply Cost Factor	(44) / (42)	$0 0309	$0 0309	$0 0309	$0 0311	$0 0309	$0 0306	$0 0310	
(44)	Stor Var Non-Product Revenue[1]		$67,195	$39,841	$24,660	$19,796	$17,837	$17,071	$22,570	$208,970
(45)	(b) FT-2 dth	(17)	338,790	168,735	85,720	69,474	65,209	71,966	109,807	909,702
(46)	Variable Supply Cost Factor	(47) / (45)	$0 0309	$0 0309	$0 0309	$0 0309	$0 0309	$0 0309	$0 0309	
(47)	Stor Var Non-Product Revenue[1]		$10,469	$5,214	$2,649	$2,147	$2,015	$2,224	$3,393	$28,110
(48)	sub-total Dth	(42) + (45)	2,512,567	1,458,405	883,838	706,878	642,970	630,184	838,112	7,672,954
(49)	**TOTAL Stor Var Non-Product Revenue**	(44) + (47)	**$77,664**	**$45,055**	**$27,309**	**$21,943**	**$19,852**	**$19,295**	**$25,963**	**$237,080**
(50)	**Deferred Responsibility[1]**		**($1,420)**	**($1,629)**	**($471)**	**($45)**	**$3,142**	**$1,527**	**($477)**	**$626**
(51)	**Total Gas Cost Revenue**	(9)+(21)+(36)+(40)+(49)+(50)	**$16,863,904**	**$10,063,350**	**$6,143,020**	**$4,963,738**	**$4,463,516**	**$4,270,540**	**$5,641,971**	**$52,410,039**

[1] Derived from Company's billing system

National Grid
Rhode Island - Gas
WORKING CAPITAL

Attachment I

Line No.	Description (a)	Reference (b)	Apr-12 actual (c)	May-12 actual (d)	Jun-12 actual (e)	Jul-12 actual (f)	Aug-12 actual (g)	Sep-12 actual (h)	Oct-12 actual (i)	Apr-Oct'12 (j)
(1)	**I. Supply Fixed Costs**	Sch 1, line 4	$2,432,548	$2,367,266	$2,621,717	$2,220,707	$2,432,620	$2,479,734	$2,470,943	$17,025,536
(2)	Capacity Release Revenue		$0	$0	$0	$0	$0	$0	$0	$0
(3)	Allowable Working Capital Costs	(1) - (2)	$2,432,548	$2,367,266	$2,621,717	$2,220,707	$2,432,620	$2,479,734	$2,470,943	$17,025,536
(4)	Number of Days Lag	Rate Case	24.40	24.40	24.40	24.40	24.40	24.40	24.40	
(5)	Working Capital Requirement	[(3) * (4)] / 365	$162,614	$158,250	$175,260	$148,453	$162,619	$165,769	$165,181	
(6)	Cost of Capital	Rate Case	7.23%	7.23%	7.23%	7.23%	7.23%	7.23%	7.23%	
(7)	Return on Working Capital Requirement	(5) * (6)	$11,757	$11,441	$12,671	$10,733	$11,757	$11,985	$11,943	
(8)	Weighted Cost of Debt	Rate Case	2.22%	2.22%	2.22%	2.22%	2.22%	2.22%	2.22%	
(9)	Interest Expense	(5) * (8)	$3,610	$3,513	$3,891	$3,296	$3,610	$3,680	$3,667	
(10)	Taxable Income	(7) - (9)	$8,147	$7,928	$8,781	$7,437	$8,147	$8,305	$8,276	
(11)	1 - Combined Tax Rate	Rate Case	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	
(12)	Return and Tax Requirement	(10) / (11)	$12,534	$12,197	$13,509	$11,442	$12,534	$12,777	$12,732	
(13)	**Supply Fixed Working Capital Requirement**	(9) + (12)	$16,144	$15,711	$17,399	$14,738	$16,144	$16,457	$16,399	$112,992
(14)	**II. Storage Fixed Costs**	Sch 1, line 19	$782,521	$774,727	$436,007	$727,807	$854,264	$693,819	$706,011	$4,975,156
(15)	Less: LNG Demand to DAC	Sch 1, line 20	$52,389	$52,389	$52,389	$52,389	$52,389	$52,389	$52,389	$366,723
(16)	Plus: Supply Related LNG O&M Costs	Sch 1, line 21	$51,549	$51,549	$51,549	$51,549	$51,549	$51,549	$51,549	$360,845
(17)	Allowable Working Capital Costs	(14) - (15) + (16)	$781,682	$773,887	$435,167	$726,967	$853,424	$692,979	$705,171	$4,969,277
(18)	Number of Days Lag	Rate Case	24.40	24.40	24.40	24.40	24.40	24.40	24.40	
(19)	Working Capital Requirement	[(17) * (18)] / 365	$52,255	$51,734	$29,091	$48,597	$57,051	$46,325	$47,140	
(20)	Cost of Capital	Rate Case	7.23%	7.23%	7.23%	7.23%	7.23%	7.23%	7.23%	
(21)	Return on Working Capital Requirement	(19) * (20)	$3,778	$3,740	$2,103	$3,514	$4,125	$3,349	$3,408	
(22)	Weighted Cost of Debt	Rate Case	2.22%	2.22%	2.22%	2.22%	2.22%	2.22%	2.22%	
(23)	Interest Expense	(19) * (22)	$1,160	$1,148	$646	$1,079	$1,267	$1,028	$1,047	
(24)	Taxable Income	(21) - (23)	$2,618	$2,592	$1,457	$2,435	$2,858	$2,321	$2,362	
(25)	1 - Combined Tax Rate	Rate Case	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	
(26)	Return and Tax Requirement	(24) / (25)	$4,028	$3,987	$2,242	$3,746	$4,397	$3,571	$3,633	
(27)	**Storage Fixed Working Capital Requirement**	(23) + (26)	$5,188	$5,136	$2,888	$4,825	$5,664	$4,599	$4,680	$32,979
(28)	**III. Supply Variable Costs**	Sch 1, line 32	$8,531,790	$5,942,935	$3,203,739	$3,097,745	$3,631,064	$2,550,396	$3,620,919	$30,578,587
(29)	Less: Variable Delivery Storage Costs	Sch 1, line 33	$1,764	$1,716	$2,756	$2,196	$1,093	$916	$1,320	$11,761
(30)	Less: Variable Injection Storage Costs	Sch 1, line 34	$6,359	$9,612	$5,558	$4,822	$4,514	$5,065	$4,883	$40,812
(31)	Less: Fuel Costs Allocated to Storage	Sch 1, line 35	$10,078	$14,899	$9,989	$9,500	$9,821	$9,742	$9,521	$73,551
(32)	Total Credits	sum[(29) (31)]	$18,201	$26,227	$18,304	$16,518	$15,428	$15,724	$15,723	$126,124
(33)	Allowable Working Capital Costs	(28) - (32)	$8,513,589	$5,916,708	$3,185,435	$3,081,227	$3,615,636	$2,534,672	$3,605,196	$30,452,463
(34)	Number of Days Lag	Rate Case	24.40	24.40	24.40	24.40	24.40	24.40	24.40	
(35)	Working Capital Requirement	[(33) * (34)] / 365	$569,128	$395,528	$212,944	$205,978	$241,703	$169,441	$241,005	
(36)	Cost of Capital	Rate Case	7.23%	7.23%	7.23%	7.23%	7.23%	7.23%	7.23%	
(37)	Return on Working Capital Requirement	(35) * (36)	$41,148	$28,597	$15,396	$14,892	$17,475	$12,251	$17,425	
(38)	Weighted Cost of Debt	Rate Case	2.22%	2.22%	2.22%	2.22%	2.22%	2.22%	2.22%	
(39)	Interest Expense	(35) * (38)	$12,635	$8,781	$4,727	$4,573	$5,366	$3,762	$5,350	
(40)	Taxable Income	(37) - (39)	$28,513	$19,816	$10,669	$10,319	$12,109	$8,489	$12,074	
(41)	1 - Combined Tax Rate	Rate Case	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	
(42)	Return and Tax Requirement	(40) / (41)	$43,867	$30,486	$16,413	$15,876	$18,630	$13,060	$18,576	
(43)	**Supply Variable Working Capital Requirement**	(39) + (42)	$56,501	$39,267	$21,140	$20,449	$23,996	$16,822	$23,926	$202,101

National Grid
Rhode Island - Gas
WORKING CAPITAL

Attachment I

Line No	Description (a)	Reference (b)	Apr-12 actual (c)	May-12 actual (d)	Jun-12 actual (e)	Jul-12 actual (f)	Aug-12 actual (g)	Sep-12 actual (h)	Oct-12 actual (i)	Apr-Oct'12 (j)
(44)	**IV. Storage Variable Product Costs**	Sch 1, line 48-50	$398,887	$1,824,170	($1,021,288)	$508,036	$297,521	$223,644	$339,395	$2,570,366
(45)	Less: Balancing Related LNG Commodity (to DAC)	Sch 1, line 51	($14,747)	($13,231)	($17,448)	($21,232)	($17,324)	($15,294)	($15,615)	($114,891)
(46)	Plus: Supply Related LNG O&M Costs	Sch 1, line 52	$35,844	$35,844	$35,844	$35,844	$35,844	$35,844	$35,844	$250,909
(47)	Allowable Working Capital Costs	(44) + (45) + (46)	$419,984	$1,846,783	($1,002,892)	$522,648	$316,042	$244,194	$359,624	$2,706,383
(48)	Number of Days Lag	Rate Case	24.40	24.40	24.40	24.40	24.40	24.40	24.40	
(49)	Working Capital Requirement	[(47) * (48)] / 365	$28,076	$123,456	($67,043)	$34,939	$21,127	$16,324	$24,041	
(50)	Cost of Capital	Rate Case	7.23%	7.23%	7.23%	7.23%	7.23%	7.23%	7.23%	
(51)	Return on Working Capital Requirement	(49) * (50)	$2,030	$8,926	($4,847)	$2,526	$1,527	$1,180	$1,738	
(52)	Weighted Cost of Debt	Rate Case	2.22%	2.22%	2.22%	2.22%	2.22%	2.22%	2.22%	
(53)	Interest Expense	(49) * (52)	$623	$2,741	($1,488)	$776	$469	$362	$534	
(54)	Taxable Income	(51) - (53)	$1,407	$6,185	($3,359)	$1,750	$1,058	$818	$1,204	
(55)	1 - Combined Tax Rate	Rate Case	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	
(56)	Return and Tax Requirement	(54) / (55)	$2,164	$9,516	($5,167)	$2,693	$1,628	$1,258	$1,853	
(57)	**Storage Var. Product Working Capital Requiremen**	(53) + (56)	$2,787	$12,256	($6,656)	$3,469	$2,097	$1,621	$2,387	$17,961
(58)	**V. Storage Variable Non-Product Costs**	Sch 1, line 66-69	$26,586	$33,888	$30,364	$26,012	$20,129	$19,616	$21,337	$177,932
(59)	Credits		$0	$0	$0	$0	$0	$0	$0	$0
(60)	Allowable Working Capital Costs	(58) - (59)	$26,586	$33,888	$30,364	$26,012	$20,129	$19,616	$21,337	$177,932
(61)	Number of Days Lag	Rate Case	24.40	24.40	24.40	24.40	24.40	24.40	24.40	
(62)	Working Capital Requirement	[(60) * (61)] / 365	$1,777	$2,265	$2,030	$1,739	$1,346	$1,311	$1,426	
(63)	Cost of Capital	Rate Case	7.23%	7.23%	7.23%	7.23%	7.23%	7.23%	7.23%	
(64)	Return on Working Capital Requirement	(62) * (63)	$128	$164	$147	$126	$97	$95	$103	
(65)	Weighted Cost of Debt	Rate Case	2.22%	2.22%	2.22%	2.22%	2.22%	2.22%	2.22%	
(66)	Interest Expense	(62) * (65)	$39	$50	$45	$39	$30	$29	$32	
(67)	Taxable Income	(64) - (66)	$89	$113	$102	$87	$67	$66	$71	
(68)	1 - Combined Tax Rate	Rate Case	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	
(69)	Return and Tax Requirement	(67) / (68)	$137	$175	$156	$134	$104	$101	$110	
(70)	**Storage Variable Non-product WC Requiremen**	(66) + (69)	$176	$225	$202	$173	$134	$130	$142	$1,181

National Grid
Rhode Island - Gas

Attachment I

INVENTORY FINANCE

Line No	Description	Reference	Apr-12 actual	May-12 actual	Jun-12 actual	Jul-12 actual	Aug-12 actual	Sep-12 actual	Oct-12 actual	Apr-Oct'12
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
(1)	**Storage Inventory Balance**		$14,800,525	$14,078,661	$15,668,503	$15,823,556	$16,087,137	$16,496,403	$16,800,974	
(2)	Hedging		$1,778,525	$3,782,057	$5,368,854	$6,084,691	$6,165,333	$6,875,866	$6,895,035	
(3)	Subtotal	(1) + (2)	$16,579,050	$17,860,718	$21,037,358	$21,908,246	$22,252,470	$23,372,270	$23,696,009	$146,706,121
(4)	Cost of Capital	Rate Case	7 23%	7 23%	7 23%	7 23%	7 23%	7 23%	7 23%	
(5)	Return on Working Capital Requirement	(3) * (4)	$1,198,665	$1,291,330	$1,521,001	$1,583,966	$1,608,854	$1,689,815	$1,713,221	$10,606,853
(6)	Weighted Cost of Debt	Rate Case	2 22%	2 22%	2 22%	2 22%	2 22%	2 22%	2 22%	
(7)	Interest Charges Financed	(3) * (6)	$368,055	$396,508	$467,029	$486,363	$494,005	$518,864	$526,051	$3,256,876
(8)	Taxable Income	(5) - (7)	$830,610	$894,822	$1,053,972	$1,097,603	$1,114,849	$1,170,951	$1,187,170	$7,349,977
(9)	1 - Combined Tax Rate	Rate Case	0 6500	0 6500	0 6500	0 6500	0 6500	0 6500	0 6500	
(10)	Return and Tax Requirement	(8) / (9)	$1,277,862	$1,376,649	$1,621,495	$1,688,620	$1,715,152	$1,801,463	$1,826,415	$11,307,656
(11)	Working Capital Requirement	(7) + (10)	$1,645,917	$1,773,157	$2,088,524	$2,174,983	$2,209,157	$2,320,327	$2,352,467	$14,564,532
(12)	Storage-Related Inventory Costs	(11) / 12	$137,160	$147,763	$174,044	$181,249	$184,096	$193,361	$196,039	$1,213,711
(13)	**LNG Inventory Balance**		$3,340,132	$3,292,429	$3,738,317	$3,924,258	$4,288,717	$4,270,769	$4,261,927	
(14)	Cost of Capital	Rate Case	7 23%	7 23%	7 23%	7 23%	7 23%	7 23%	7 23%	
(15)	Return on Working Capital Requirement	(13) * (14)	$241,492	$238,043	$270,280	$283,724	$310,074	$308,777	$308,137	$1,960,526
(16)	Weighted Cost of Debt	Rate Case	2 22%	2 22%	2 22%	2 22%	2 22%	2 22%	2 22%	
(17)	Interest Charges Financed	(13) * (16)	$74,151	$73,092	$82,991	$87,119	$95,210	$94,811	$94,615	$601,987
(18)	Taxable Income	(15) - (17)	$167,341	$164,951	$187,290	$196,605	$214,865	$213,966	$213,523	$1,358,539
(19)	1 - Combined Tax Rate	Rate Case	0 6500	0 6500	0 6500	0 6500	0 6500	0 6500	0 6500	
(20)	Return and Tax Requirement	(18) / (19)	$257,447	$253,770	$288,138	$302,470	$330,561	$329,178	$328,496	$2,090,060
(21)	Working Capital Requirement	(17) + (20)	$331,598	$326,862	$371,129	$389,588	$425,771	$423,989	$423,111	$2,692,048
(22)	Monthly Average	(21) / 12	$27,633	$27,239	$30,927	$32,466	$35,481	$35,332	$35,259	$224,337
(23)	System Balancing Factor	Rate Case	18 12%	18 12%	18 12%	18 12%	18 12%	18 12%	18 12%	
(24)	Balancing Related Inventory Costs	(22) * (23)	$5,007	$4,936	$5,604	$5,883	$6,429	$6,402	$6,389	$40,650
(25)	LNG-Related Inventory Costs	(22) - (24)	$22,626	$22,303	$25,323	$26,583	$29,052	$28,930	$28,870	$183,687

National Grid
Rhode Island - Gas

Attachment I

Schedule 6
Page 1 of 1

Actual Dth Usage for Filing

Line No	Rate Class	Apr-12 actual	May-12 actual	Jun-12 actual	Jul-12 actual	Aug-12 actual	Sep-12 actual	Oct-12 actual	Apr-Oct'12
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
(1)	**SALES (dth)**								
(2)	Residential Non-Heating	58,071	44,656	34,394	28,068	26,163	26,022	30,065	247,438
(3)	Residential Non-Heating Low Income	1,917	1,163	778	656	736	661	872	6,782
(4)	Residential Heating	1,370,734	837,999	497,026	368,362	341,313	331,780	434,145	4,181,360
(5)	Residential Heating Low Income	142,168	85,332	55,790	41,653	39,722	37,547	48,823	451,035
(6)	Small C&I	190,004	104,113	55,623	47,044	43,411	37,395	47,403	524,992
(7)	Medium C&I	295,566	141,422	80,363	107,306	88,038	81,943	118,250	912,888
(8)	Large LLF	60,118	29,927	28,680	6,774	9,744	11,352	9,335	155,931
(9)	Large HLF	21,314	14,063	19,566	11,632	13,917	17,404	17,173	115,069
(10)	Extra Large LLF	6,804	5,222	9,144	13,387	2,304	2,333	4,166	43,360
(11)	Extra Large HLF	18,624	17,174	16,860	11,596	11,922	11,313	11,754	99,242
(12)	**Total Sales**	2,165,320	1,281,071	798,224	636,478	577,269	557,749	721,985	6,738,095
(13)	**TSS**								
(14)	Medium	4,438	2,442	(404)	726	312	469	2,766	10,748
(15)	Large LLF	3,651	4,432	0	0	0	0	2,580	10,663
(16)	Large HLF	369	1,726	298	199	180	0	973	3,745
(17)	Extra Large LLF	0	0	0	0	0	0	0	0
(18)	Extra Large HLF	0	0	0	0	0	0	0	0
(19)	**Total TSS**	8,457	8,600	(106)	926	492	469	6,320	25,156
(20)	**FT-2 TRANSPORTATION**								
(21)	FT-2 Medium	114,839	89,616	41,491	40,610	40,743	41,839	48,576	417,714
(22)	FT-2 Large LLF	76,051	48,891	27,401	16,212	12,438	15,255	25,295	221,543
(23)	FT-2 Large HLF	21,696	16,877	14,579	11,436	10,761	14,873	18,490	108,711
(24)	FT-2 Extra Large LLF	114,345	3,806	2,249	1,217	1,267	0	17,447	140,331
(25)	FT-2 Extra Large HLF	11,859	9,545	0	0	0	0	0	21,404
(26)	**Total FT-2 Transportation**	338,790	168,735	85,720	69,474	65,209	71,966	109,807	909,702
(27)	**Sales & FT-2 THROUGHPUT**								
(28)	Residential Non-Heating	58,071	44,656	34,394	28,068	26,163	26,022	30,065	247,438
(29)	Residential Non-Heating Low Income	1,917	1,163	778	656	736	661	872	6,782
(30)	Residential Heating	1,370,734	837,999	497,026	368,362	341,313	331,780	434,145	4,181,360
(31)	Residential Heating Low Income	142,168	85,332	55,790	41,653	39,722	37,547	48,823	451,035
(32)	Small C&I	190,004	104,113	55,623	47,044	43,411	37,395	47,403	524,992
(33)	Medium C&I	414,843	233,479	121,450	148,642	129,093	124,251	169,593	1,341,351
(34)	Large LLF	139,819	83,250	56,081	22,987	22,182	26,607	37,210	388,136
(35)	Large HLF	43,379	32,666	34,443	23,267	24,858	32,277	36,636	227,525
(36)	Extra Large LLF	121,149	9,029	11,393	14,604	3,571	2,333	21,612	183,691
(37)	Extra Large HLF	30,483	26,719	16,860	11,596	11,922	11,313	11,754	120,646
(38)	**Total Sales & FT-2 Throughput**	2,512,567	1,458,405	883,838	706,878	642,970	630,184	838,112	7,672,954
(39)	**FT-1 TRANSPORTATION**								
(40)	FT-1 Medium	53,487	28,627	22,765	26,227	23,120	27,405	31,080	212,711
(41)	FT-1 Large LLF	77,621	28,599	7,967	5,513	15,875	14,820	27,287	177,681
(42)	FT-1 Large HLF	33,708	31,826	27,843	30,123	22,578	35,581	30,479	212,137
(43)	FT-1 Extra Large LLF	(34,984)	51,273	8,829	(8,934)	11,986	11,555	4,205	43,931
(44)	FT-1 Extra Large HLF	391,892	350,261	359,011	368,732	368,022	398,999	351,699	2,588,615
(45)	Default	4,187	11,286	(4,444)	1,056	1,283	1,076	1,687	16,131
(46)	**Total FT-1 Transportation**	525,911	501,872	421,971	422,717	442,863	489,436	446,436	3,251,206
(47)	**Total THROUGHPUT**								
(48)	Residential Non-Heating	58,071	44,656	34,394	28,068	26,163	26,022	30,065	247,438
(49)	Residential Non-Heating Low Income	1,917	1,163	778	656	736	661	872	6,782
(50)	Residential Heating	1,370,734	837,999	497,026	368,362	341,313	331,780	434,145	4,181,360
(51)	Residential Heating Low Income	142,168	85,332	55,790	41,653	39,722	37,547	48,823	451,035
(52)	Small C&I	190,004	104,113	55,623	47,044	43,411	37,395	47,403	524,992
(53)	Medium C&I	468,331	262,106	144,216	174,869	152,213	151,656	200,672	1,554,061
(54)	Large LLF	217,441	111,848	64,048	28,500	38,057	41,427	64,497	565,817
(55)	Large HLF	77,086	64,492	62,286	53,390	47,435	67,858	67,115	439,662
(56)	Extra Large LLF	86,165	60,302	20,222	5,670	15,557	13,889	25,817	227,622
(57)	Extra Large HLF	422,375	376,980	375,871	380,328	379,943	410,312	363,453	2,709,261
(58)	Default	4,187	11,286	(4,444)	1,056	1,283	1,076	1,687	16,131
(59)	**Total Throughput**	3,038,478	1,960,277	1,305,809	1,129,595	1,085,833	1,119,620	1,284,548	10,924,160

National Grid
Rhode Island - Gas

Attachment II

Deferred Gas Cost Balances

Line No	Description	Reference	Nov-12 actual	Dec-12 actual	Jan-13 actual	Feb-13 actual	Mar-13 actual	Nov'12-Mar'13
(1)	# of Days in Month		30	31	31	28	31	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
(2)	I Fixed Cost Deferred							
(3)	Beginning Balance[1]		$9,653,010	$9,225,100	$6,523,415	$988,203	($4,496,567)	$9,653,010
(4)	Adjustment- Tennessee Refund Reallocation	Dkt 4346	($1,141,713)					($1,141,713)
(5)	Supply Fixed Costs (net of cap rel)	Sch 2, line (81)	$3,481,283	$3,170,537	$3,427,815	$3,519,974	$3,464,261	$17,063,871
(6)	LNG Demand to DAC	Dkt 4339	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($620,329)
(7)	Supply Related LNG O & M	Nov'12-Jan'13: Dkt 3943 Feb'13-Mar'13: Dkt 4323	$51,549	$51,549	$51,549	$47,965	$47,965	$250,578
(8)	NGPMP Credits[2]		($383,333)	($383,333)	($1,778,347)	($383,333)	($1,040,996)	($3,969,343)
(9)	Working Capital	Sch 4, line (15)	$22,600	$20,540	$22,245	$20,417	$19,518	$105,320
(10)	Total Supply Fixed Costs	sum[(4) (9)]	$1,906,321	$2,735,227	$1,599,197	$3,080,957	$2,366,682	$11,688,384
(11)	Supply Fixed - Revenue	Sch 3, line (11)	$1,969,654	$5,445,267	$7,138,394	$8,564,047	$7,229,192	$30,346,553
(12)	Prelim Ending Balance	(3) + (10) - (11)	$9,589,677	$6,515,060	$984,218	($4,494,886)	($9,359,077)	($9,005,159)
(13)	Month's Average Balance	[(3) + (12)] / 2	$9,621,343	$7,870,080	$3,753,816	($1,753,342)	($6,927,822)	
(14)	Interest Rate (BOA Prime minus 200 bps)		1 25%	1 25%	1 25%	1 25%	1 25%	
(15)	Interest Applied	[(13) * (14)] / 365 * (1)	$9,885	$8,355	$3,985	($1,681)	($7,355)	$13,189
(16)	Marketer Reconcilation	Dkt 4346	($374,462)					($374,462)
(17)	Fixed Ending Balance	(12) + (15) + (16)	$9,225,100	$6,523,415	$988,203	($4,496,567)	($9,366,432)	($9,366,432)
(18)	II Variable Cost Deferred							
(19)	Beginning Balance[3]		($9,801,393)	($11,805)	$5,871,912	$15,388,373	$21,124,084	($9,801,393)
(20)	Adjustment- Tennessee Refund Reallocation	Dkt 4346	$1,141,713					$1,141,713
(21)	Variable Supply Costs	Sch 2, line (137)	$16,520,419	$19,511,989	$28,143,528	$26,828,501	$18,984,291	$109,988,729
(22)	Supply Related LNG to DAC	Dkt 4339	($55,845)	($458)	($534,407)	($165,050)	($31,563)	($787,323)
(23)	Supply Related LNG O & M	Nov'12-Jan'13: Dkt 3943 Feb'13-Mar'13: Dkt 4323	$35,844	$35,844	$35,844	$47,725	$47,725	$202,981
(24)	Inventory Financing - LNG	Sch 5, line (22)	$34,208	$34,176	$22,928	$19,960	$20,542	$131,813
(25)	Inventory Financing - UG	Sch 5, line (12)	$184,635	$166,868	$133,183	$103,888	$101,921	$690,495
(26)	Working Capital	Sch 4, line (30)	$109,396	$129,597	$183,284	$158,357	$112,078	$692,713
(27)	Total Supply Variable Costs	sum[(20) (26)]	$17,970,370	$19,878,017	$27,984,360	$26,993,380	$19,234,994	$112,061,121
(28)	Supply Variable - Revenue	Sch 3, line (25)	$8,175,744	$13,997,409	$18,479,178	$21,275,167	$18,309,495	$80,236,993
(29)	Prelim Ending Balance	(19) + (27) - (28)	($6,766)	$5,868,803	$15,377,094	$21,106,586	$22,049,582	$22,022,735
(30)	Month's Average Balance	[(19) + (29)] / 2	($4,904,080)	$2,928,499	$10,624,503	$18,247,480	$21,586,833	
(31)	Interest Rate (BOA Prime minus 200 bps)		1 25%	1 25%	1 25%	1 25%	1 25%	
(32)	Interest Applied	[(30) * (31)] / 365 * (1)	($5,038)	$3,109	$11,279	$17,498	$22,918	$49,765
(33)	Gas Procurement Incentive/(penalty)		$0	$0	$0	$0	$0	
(34)	Variable Ending Balance	(29) + (32) + (33)	($11,805)	$5,871,912	$15,388,373	$21,124,084	$22,072,500	$22,072,500
(35)	**GCR Deferred Summary**							
(36)	Beginning Balance	(3) + (19)	($148,383)	$9,213,295	$12,395,327	$16,376,576	$16,627,517	($148,383)
(37)	Gas Costs	sum[(4):(7),(16),(20):(23)]	$19,534,723	$22,645,396	$31,000,264	$30,155,049	$22,388,613	$125,724,045
(38)	Inventory Finance	(24) + (25)	$218,843	$201,044	$156,111	$123,848	$122,463	$822,308
(39)	Working Capital	(9) + (26)	$131,996	$150,137	$205,529	$178,774	$131,597	$798,033
(40)	NGPMP Credits[2]	(8)	($383,333)	($383,333)	($1,778,347)	($383,333)	($1,040,996)	($3,969,343)
(41)	Total Costs	sum[(37) (40)]	$19,502,229	$22,613,244	$29,583,557	$30,074,338	$21,601,676	$123,375,043
(42)	Revenue	(11) + (28)	$10,145,397	$19,442,676	$25,617,572	$29,839,214	$25,538,687	$110,583,547
(43)	Prelim Ending Balance	(36) + (41) - (42)	$9,208,449	$12,383,863	$16,361,312	$16,611,700	$12,690,505	$12,643,114
(44)	Month's Average Balance	[(36) + (43)] / 2	$4,530,033	$10,798,579	$14,378,319	$16,494,138	$14,659,011	
(45)	Interest Rate (BOA Prime minus 200 bps)		1 25%	1 25%	1 25%	1 25%	1 25%	
(46)	Interest Applied	(15) + (32)	$4,847	$11,464	$15,265	$15,816	$15,563	$62,954
(47)	Gas Purchase Plan Incentives/(Penalties)	(33)	$0	$0	$0	$0	$0	$0
(48)								
(49)	**Ending Bal. W/ Interest [4]**	(43) + (46) + (47)	**$9,213,295**	**$12,395,327**	**$16,376,576**	**$16,627,517**	**$12,706,068**	$12,706,068

[1] Sum of Supply Fixed Cost and Storage Fixed Cost's ending balances on October 31, 2012

[2] Based on Docket 4038 National Grid Natural Gas Portfolio Management Plan quarterly and annual filings

[3] Sum of Supply Variable Cost, Storage Variable Product Cost, and Storage Variable Non-Product Cost's ending balances on October 31, 2012

[4] Represents under/(over)-recovery

Attachment II

Supply Estimate and Actuals for Filing

Line No	Description (a)	Reference (b)	actual (c)	actual (d)	actual (e)	actual (f)	actual (g)	(h)
(1)	**SUPPLY FIXED COSTS - Pipeline Delivery**							
(2)	Algonquin		$1,071,837	$906,694	$902,282	$905,856	$909,685	$4,696,353
(3)	Alberta Northeast		$637	$578	$373	$352	$315	$2,255
(4)	Texas Eastern		$0	$0	$0	$0	$0	$0
(5)	TETCO		$775,893	$706,289	$883,053	$636,532	$826,245	$3,828,012
(6)	Tennessee		$1,016,202	$1,015,024	$993,149	$1,036,899	$1,015,024	$5,076,298
(7)	NETNE		$0	$0	$0	$0	$0	$0
(8)	Iroquois		$610	($6,676)	$6,676	($6,676)	$0	($6,066)
(9)	Union		$2,497	($2,388)	$0	$0	$0	$108
(10)	Transcanada		$0	$0	$0	$0	$0	$0
(11)	Dominion		$34,096	$32,512	$33,304	$33,304	$33,304	$166,520
(12)	Transco		$6,618	$6,404	$6,831	$5,977	$8,394	$34,224
(13)	National Fuel		$4,663	$4,663	$4,663	$4,754	$4,754	$23,496
(14)	Columbia		$303,060	$295,275	$295,823	$270,283	$286,497	$1,450,939
(15)	Hubline		$0	$0	$0	$0	$0	$0
(16)	Westerly Lateral		$56,324	$56,324	$57,256	$54,984	$54,984	$279,871
(17)	East to West		$0	$0	$0	$0	$0	$0
(18)	BG LNG Energy		$303	($2,388)	$2,388	$0	$0	$303
(19)	Shell Energy		$0	($3,125)	($3,125)	($3,125)	($3,125)	($12,500)
(20)	EDF Trading N Am		$0	($18,750)	($18,750)	($18,750)	($18,750)	($75,000)
(21)	Coral Energy		$0	$0	$0	($3,125)	$0	($3,125)
(22)	DB Energy Trading		$0	$0	$0	($18,750)	$0	($18,750)
(23)			$0	$0	$0	$0	$0	$0
(24)			$0	$0	$0	$0	$0	$0
(25)	Less Credits from Mkter Releases		($631,266)	($631,266)	($588,784)	($588,462)	($619,438)	($3,059,216)
(26)	**TOTAL SUPPLY FIXED COSTS - Pipeline**	sum[(2):(25)]	$2,641,473	$2,359,169	$2,575,139	$2,310,053	$2,497,890	$12,383,724
(27)	**Supply Fixed - Supplier**							
(28)	Distrigas FCS		$0	$0	$0	$0	$0	$0
(29)	**Supply Fixed Total**	(28)	$0	$0	$0	$0	$0	$0
(30)	**Total Supply Fixed (Pipeline & Supplier)**	(26) + (29)	$2,641,473	$2,359,169	$2,575,139	$2,310,053	$2,497,890	$12,383,724
(31)	**STORAGE FIXED COSTS - Facilities**							
(32)	Texas Eastern SS-1 Demand		$87,103	$87,620	$87,610	$183,997	($10,779)	$435,550
(33)	Texas Eastern SS-1 Capacity		$0	$0	$0	$0	$0	$0
(34)	Texas Eastern FSS-1 Demand		$0	$0	$0	$0	$0	$0
(35)	Texas Eastern FSS-1 Capacity		$0	$0	$0	$0	$0	$0
(36)	Dominion GSS Demand		$83,387	$81,585	$82,486	$82,486	$82,486	$412,430
(37)	Dominion GSS Capiacity		$0	$0	$0	$0	$0	$0
(38)	Dominion GSS-TE Demand		$0	$0	$0	$0	$0	$0
(39)	Dominion GSS-TE Capacity		$0	$0	$0	$0	$0	$0
(40)	Tennessee FSMA Demand		$49,804	$56,480	$43,128	$49,804	$49,804	$249,020
(41)	Tennessee FSMA Capacity		$0	$0	$0	$0	$0	$0
(42)	Columbia FSS Demand		$9,735	$9,735	$9,735	$34,528	($944)	$62,788
(43)	Columbia FSS Capacity		$0	$0	$0	$0	$0	$0
(44)	Keyspan LNG Tank Lease Payment		$163,740	$163,740	$163,740	$163,740	$163,740	$818,700
(45)	Iroquois		$6,066	$6,822	$6,825	$13,353	$6,811	$39,876
(46)			$0	$0	$0	$0	$0	$0
(47)			$0	$0	$0	$0	$0	$0
(48)			$0	$0	$0	$0	$0	$0
(49)			$0	$0	$0	$0	$0	$0
(50)			$0	$0	$0	$0	$0	$0
(51)			$0	$0	$0	$0	$0	$0
(52)			$0	$0	$0	$0	$0	$0
(53)	**TOTAL FIXED STORAGE COSTS**	sum[(32):(52)]	$399,835	$405,982	$393,523	$527,908	$291,117	$2,018,365

National Grid
Rhode Island - Gas

Attachment II

Supply Estimate and Actuals for Filing

Line No	Description (a)	Reference (b)	actual (c)	actual (d)	actual (e)	actual (f)	actual (g)	(h)
(54)	**STORAGE FIXED COSTS - Delivery**							
(55)	Algonquin for TETCO SS-1		$152,655	$153,746	$149,123	$154,824	$151,136	$761,483
(56)	Algonquin delivery for FSS		$0	$0	$0	$0	$0	$0
(57)	TETCO delivery for FSS		$0	$0	$0	$0	$0	$0
(58)	Algonquin SCT for SS-1		$0	$0	$0	$0	$0	$0
(59)	Algonquin delivery for GSS, GSS-TE,		$0	$0	$0	$0	$0	$0
(60)	Algonquin SCT delivery for GSS-TE		$0	$0	$0	$0	$0	$0
(61)	Algonquin delivery for GSS Conv		$0	$0	$0	$0	$0	$0
(62)	Tennessee delivery for GSS		$92,970	$183,036	$15,137	$106,881	$104,108	$502,133
(63)	Tennessee delivery for FSMA		$0	$0	$0	$0	$0	$0
(64)	TETCO delivery for GSS		$53,571	$53,571	$53,575	$53,573	$53,269	$267,558
(65)	TETCO delivery for GSS-TE		$0	$0	$0	$0	$0	$0
(66)	TETCO delivery for GSS-TE		$0	$0	$0	$0	$0	$0
(67)	TETCO delivery for GSS Conv		$0	$0	$0	$0	$0	$0
(68)	Dominion delivery for GSS Conv		$0	$0	$0	$0	$0	$0
(69)	Dominion delivery for GSS		$0	$0	$0	$0	$0	$0
(70)	Algonquin delivery for FSS		$0	$0	$0	$0	$0	$0
(71)	Columbia Delivery for FSS		$15,396	$15,033	$15,033	$15,069	$15,074	$75,605
(72)	Distrigas FLS call payment		$125,383	$0	$226,285	$351,668	$351,668	$1,055,003
(73)			$0	$0	$0	$0	$0	$0
(74)			$0	$0	$0	$0	$0	$0
(75)			$0	$0	$0	$0	$0	$0
(76)			$0	$0	$0	$0	$0	$0
(77)			$0	$0	$0	$0	$0	$0
(78)			$0	$0	$0	$0	$0	$0
(79)	**STORAGE DELIVERY FIXED COST $**	sum[(55):(78)]	$439,975	$405,386	$459,153	$682,014	$675,254	$2,661,782
(80)	**TOTAL STORAGE FIXED**	(53) + (79)	$839,810	$811,368	$852,676	$1,209,922	$966,371	$4,680,147
(81)	**TOTAL FIXED COSTS**	(30) + (80)	$3,481,283	$3,170,537	$3,427,815	$3,519,974	$3,464,261	$17,063,871

National Grid
Rhode Island - Gas

Attachment II

Supply Estimate and Actuals for Filing

Line No	Description (a)	Reference (b)	actual (c)	actual (d)	actual (e)	actual (f)	actual (g)	(h)
(82)	**SUPPLY VARIABLE COSTS (Includes Injections)**							
(83)	Tennessee Zone 0							
(84)	Tennessee Zone 1							
(85)	Tennessee Connexion							
(86)	Tennessee Dracut							
(87)	TETCO STX							
(88)	TETCO ELA							
(89)	TETCO WLA							
(90)	TETCO ETX							
(91)	TETCO NF							
(92)	M3 Delivered							
(93)	Maumee							
(94)	Broadrun Col							
(95)	Columbia Eagle and Downingtown							
(96)	Transco Zone 2							
(97)	Dominion to TETCO FTS							
(98)	Transco Zone 3							
(99)	ANE to Tennessee							
(100)	Niagara to Tennessee							
(101)	TETCO to B & W							
(102)	DistriGas FCS							
(103)	Hubline							
(104)	Total Pipeline Commodity Charges	sum[(83):(103)]	$10,650,649	$13,545,834	$17,697,401	$17,560,095	$13,437,755	$72,891,734
(105)	Hedging Settlements and Amortization		$2,541,311	$2,828,363	$4,450,506	$3,838,165	$3,509,913	$17,168,258
(106)	Hedging Contracts - Commission & Other Fees		$6,123	$5,893	$4,963	$2,704	$1,680	$21,363
(107)	Hedging Contracts - Net Carry of Collateral		$634	$622	$29,566	$6,898	$2,738	$40,457
(108)	Refunds (Columbia)		$0	$0	$0	$0	$0	$0
(109)	Less: Costs of Injections		$0	$0	$0	$0	$0	$0
(110)	**TOTAL SUPPLY VARIABLE COSTS**	sum[(104):(109)]	$13,198,717	$16,380,712	$22,182,435	$21,407,862	$16,952,086	$90,121,811
(111)	Underground Storage		$1,623,493	$2,704,582	$4,566,551	$4,351,008	$2,151,453	$15,397,087
(112)	LNG Withdrawals and Trucking		$160,767	$107,865	$1,413,858	$441,567	$139,972	$2,264,028
(113)	Storage Delivery Costs		$0	$0	$0	$0	$0	$0
(114)	**TOTAL STORAGE VARIABLE COSTS**	sum[(111):(113)]	$1,784,260	$2,812,447	$5,980,409	$4,792,575	$2,291,426	$17,661,116
(115)	**TOTAL VARIABLE COSTS**	(110) + (114)	$14,982,977	$19,193,158	$28,162,844	$26,200,436	$19,243,512	$107,782,927
(116)	**TOTAL SUPPLY COSTS**	(81) + (115)	$18,464,260	$22,363,696	$31,590,659	$29,720,411	$22,707,773	$124,846,798

National Grid
Rhode Island - Gas

Attachment II

Supply Estimate and Actuals for Filing

Line No	Description (a)	Reference (b)	actual (c)	actual (d)	actual (e)	actual (f)	actual (g)	(h)
(117)	**Storage Costs for FT-2 Calculation**		$0	$0	$0	$0	$0	
(118)	**Storage Fixed Costs - Facilities**	(53)	$399,835	$405,982	$393,523	$527,908	$291,117	$2,018,365
(119)	**Storage Fixed Costs - Deliveries**	(79)	$439,975	$405,386	$459,153	$682,014	$675,254	$2,661,782
(120)	**sub-total Storage Costs**	sum[(118):(119)]	$839,810	$811,368	$852,676	$1,209,922	$966,371	$4,680,147
(121)	**LNG Demand to DAC**	Sch 1, line (6)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($620,329)
(122)	**Inventory Financing**	Sch 5, line (23)	$218,843	$201,044	$156,111	$123,848	$122,463	$822,308
(123)	**Supply related LNG O&M Costs**	Sch 1, line (7)	$51,549	$51,549	$51,549	$47,965	$47,965	$250,578
(124)	**Working Capital Requirement**	Sch 4, line (15)	$22,600	$20,540	$22,245	$20,417	$19,518	$105,320
(125)	**Total FT-2 Storage Fixed Costs**	sum[(120):(124)]	$1,008,736	$960,435	$958,516	$1,278,086	$1,032,251	$5,238,024
(126)	**System Storage MDQ (Dth)**		154,334	154,334	154,334	154,334	154,334	771,670
(127)	**FT-2 Storage Cost per MDQ (Dth)**	(125) / (126)	$6 5361	$6 2231	$6 2107	$8 2813	$6 6884	$6 7879
(128)	Pipeline Variable	(115)	$14,982,977	$19,193,158	$28,162,844	$26,200,436	$19,243,512	$107,782,927
(129)	Less Non-firm Gas Costs[1]		($79,475)	($232,644)	($294,473)	($194,769)	($195,469)	($996,829)
(130)	Less Company Use[1]		($15,192)	($28,566)	($32,122)	$0	$0	($75,879)
(131)	Less Manchester St Balancing[1]		$1,636,590	$0	$0	$0	$0	$1,636,590
(132)	Plus Cashout[1]		$0	$0	$0	$0	$0	$0
(133)	Less Mkter Withdrawals/Injections[1]		($297,365)	$326,447	$0	$0	$0	$29,082
(134)	Mkter Over-takes/Undertakes[1]		$118,183	$22,093	$104,470	$500,963	($258,839)	$486,869
(135)	Plus Pipeline Srchg/Credit[1]		$174,700	$232,602	$245,069	$246,276	$222,940	$1,121,587
(136)	Less Mkter FT-2 Daily weather true-up[1]			($1,101)	($42,260)	$75,594	($27,852)	$4,381
(137)	**TOTAL FIRM COMMODITY COSTS**	sum[(128):(136)]	$16,520,419	$19,511,989	$28,143,528	$26,828,501	$18,984,291	$109,988,729

[1] Derived from Company's billing system

National Grid
Rhode Island - Gas

Attachment II

Schedule 3
Page 1 of 1

GCR Revenue

Line No	Description (a)	Reference (b)	Nov-12 actual (c)	Dec-12 actual (d)	Jan-13 actual (e)	Feb-13 actual (f)	Mar-13 actual (g)	Nov'12-Mar'13 (h)
(1)	**I. Fixed Cost Revenue --**							
(2)	(a) Low Load dth	Sch 6, line (24)-(28), (30)	1,309,186	2,815,334	3,745,030	4,357,685	3,724,867	15,952,101
(3)	Storage Fixed Cost Factor	(4) / (2)	$1 3853	$1 8316	$1 8208	$1 8108	$1 8180	
(4)	Low Load Revenue[1]		$1,813,559	$5,156,680	$6,818,771	$7,890,727	$6,771,708	$28,451,445
(5)	(b) High Load dth	Sch 6, line (22), (23), (29), (31)	87,767	140,682	166,507	171,296	161,489	727,741
(6)	Storage Fixed Cost Factor	(7) / (5)	$1 3298	$1 3623	$1 3520	$1 3436	$1 3489	
(7)	High Load Revenue[1]		$116,714	$191,651	$225,115	$230,146	$217,835	$981,460
(8)	sub-total throughput Dth	(2) + (5)	1,396,953	2,956,016	3,911,537	4,528,981	3,886,355	16,679,842
(9)	FT-2 for activity in Oct-12- Fixed[1]		$39,381					$39,381
(10)	FT-2 Storage Revenue from marketers[1]			$96,937	$94,508	$443,174	$239,648	$874,267
(11)	**TOTAL Fixed Revenue**	(4) + (7) + (9) + (10)	**$1,969,654**	**$5,445,267**	**$7,138,394**	**$8,564,047**	**$7,229,192**	**$30,346,553**
(12)	**II. Variable Cost Revenue --**							
(13)	(a) Firm Sales dth	(8)	1,396,953	2,956,016	3,911,537	4,528,981	3,886,355	16,679,842
(14)	Variable Supply Cost Factor	(15) / (13)	$5 8398	$4 7188	$4 6903	$4 6697	$4 6935	
(15)	Variable Supply Revenue[1]		$8,157,898	$13,948,757	$18,346,419	$21,148,907	$18,240,787	$79,842,769
(16)	(b) TSS Sales dth	Sch 6, line (20)	12,045	18,849	9,002	12,300	11,097	63,291
(17)	TSS Variable Supply Cost Factor		$0 0000	$0 0000	$0 0000	$0 0000	$0 0000	
(18)	TSS Surcharge Revenue	(16) * (17)	$0	$0	$0	$0	$0	$0
(19)	(c) Default Sales dth	Sch 6, line (60)	1,820	8,109	7,008	9,834	5,832	32,603
(20)	Variable Supply Cost Factor	(21) / (19)	$7 7013	$6 2701	$18 9392	$12 8070	$11 1861	
(21)	Variable Supply Revenue[1]		$14,017	$50,845	$132,731	$125,938	$65,236	$388,768
(22)	(d) Peaking Gas Revenue[1]		$0	$0	$0	$0	$0	$0
(23)	(e) Deferred Responsibility[1]		$130	($2,194)	$27	$322	$3,472	$1,758
(24)	FT-2 for activity in Oct-12- Variable[1]		$3,699					$3,699
(25)	**TOTAL Variable Revenue**	(15)+(18)+(21)+(22)+(23)+(24)	**$8,175,744**	**$13,997,409**	**$18,479,178**	**$21,275,167**	**$18,309,495**	**$80,236,993**
(26)	**Total Gas Cost Revenue**	(11) + (25)	**$10,145,397**	**$19,442,676**	**$25,617,572**	**$29,839,214**	**$25,538,687**	**$110,583,547**

[1] Derived from Company's billing system

National Grid
Rhode Island - Gas

Attachment II

WORKING CAPITAL

Line No	Description (a)	Reference (b)	actual (c)	actual (d)	actual (e)	actual (f)	actual (g)	(h)
(1)	**Supply Fixed Costs**	Sch 1, line (5)	$3,481,283	$3,170,537	$3,427,815	$3,519,974	$3,464,261	$17,063,871
(2)	Less: LNG Demand to DAC	Sch 1, line (6)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($620,329)
(3)	Plus: Supply Related LNG O&M Costs	Sch 1, line (7)	$51,549	$51,549	$51,549	$47,965	($47,965)	$154,648
(4)	Total Adjustments	(2) + (3)	($72,517)	($72,517)	($72,517)	($76,101)	($172,031)	($465,681)
(5)	Allowable Working Capital Costs	(1) + (4)	$3,408,767	$3,098,021	$3,355,299	$3,443,874	$3,292,230	$16,598,190
(6)	Number of Days Lag	Nov'12-Jan'13: Dkt 3943 Feb'13-Mar'13: Dkt 4323	24 40	24 40	24 40	21 51	21 51	
(7)	Working Capital Requirement	[(5) * (6)] / 365	$227,874	$207,101	$224,299	$202,953	$194,016	
(8)	Cost of Capital	Nov'12-Jan'13: Dkt 3943 Feb'13-Mar'13: Dkt 4323	7 22%	7 22%	7 22%	7 54%	7 54%	
(9)	Return on Working Capital Requirement	(7) * (8)	$16,452	$14,953	$16,194	$15,303	$14,629	
(10)	Weighted Cost of Debt	Nov'12-Jan'13: Dkt 3943 Feb'13-Mar'13: Dkt 4323	2 21%	2 21%	2 21%	2 86%	2 86%	
(11)	Interest Expense	(7) * (10)	$5,036	$4,577	$4,957	$5,804	$5,549	
(12)	Taxable Income	(9) - (11)	$11,416	$10,376	$11,237	$9,498	$9,080	
(13)	1 - Combined Tax Rate	Nov'12-Jan'13: Dkt 3943 Feb'13-Mar'13: Dkt 4323	0 65	0 65	0 65	0 65	0 65	
(14)	Return and Tax Requirement	(12) / (13)	$17,564	$15,963	$17,288	$14,613	$13,969	
(15)	**Supply Fixed Working Capital Requirement**	(11) + (14)	$22,600	$20,540	$22,245	$20,417	$19,518	$105,320
(16)	**Supply Variable Costs**	Sch 1, line (21)	$16,520,419	$19,511,989	$28,143,528	$26,828,501	$18,984,291	$109,988,729
(17)	Less: Balancing Related LNG Commodity (to DAC)	Sch 1, line (22)	(55,845)	(458)	(534,407)	(165,050)	(31,563)	($787,323)
(18)	Plus: Supply Related LNG O&M Costs	Sch 1, line (23)	35,844	35,844	35,844	47,725	(47,725)	$107,532
(19)	Total Adjustments	(17) + (18)	($20,001)	$35,386	($498,563)	($117,326)	($79,288)	($679,791)
(20)	Allowable Working Capital Costs	(16) + (19)	$16,500,418	$19,547,376	$27,644,965	$26,711,175	$18,905,004	$109,308,938
(21)	Number of Days Lag	Nov'12-Jan'13: Dkt 3943 Feb'13-Mar'13: Dkt 4323	24 40	24 40	24 40	21 51	21 51	
(22)	Working Capital Requirement	[(20) * (21)] / 365	$1,103,042	$1,306,729	$1,848,047	$1,574,130	$1,114,100	
(23)	Cost of Capital	Nov'12-Jan'13: Dkt 3943 Feb'13-Mar'13: Dkt 4323	7 22%	7 22%	7 22%	7 54%	7 54%	
(24)	Return on Working Capital Requirement	(22) * (23)	$79,640	$94,346	$133,429	$118,689	$84,003	
(25)	Weighted Cost of Debt	Nov'12-Jan'13: Dkt 3943 Feb'13-Mar'13: Dkt 4323	2 21%	2 21%	2 21%	2 86%	2 86%	
(26)	Interest Expense	(22) * (25)	$24,377	$28,879	$40,842	$45,020	$31,863	
(27)	Taxable Income	(24) - (26)	$55,262	$65,467	$92,587	$73,669	$52,140	
(28)	1 - Combined Tax Rate	Nov'12-Jan'13: Dkt 3943 Feb'13-Mar'13: Dkt 4323	0 65	0 65	0 65	0 65	0 65	
(29)	Return and Tax Requirement	(27) / (28)	$85,019	$100,719	$142,442	$113,337	$80,215	
(30)	**Supply Variable Working Capital Requirement**	(26) + (29)	$109,396	$129,597	$183,284	$158,357	$112,078	$692,713

National Grid
Rhode Island - Gas

Attachment II

Schedule 5
Page 1 of 1

INVENTORY FINANCE

Line No.	Description (a)	Reference (b)	Nov-12 actual (c)	Dec-12 actual (d)	Jan-13 actual (e)	Feb-13 actual (f)	Mar-13 actual (g)	Nov'12-Mar'13 (h)
(1)	**Storage Inventory Balance**		$15,445,080	$14,881,176	$13,425,529	$11,840,616	$12,157,529	
(2)	Monthly Storage Deferral/Amortization		$6,895,035	$5,309,177	$2,689,064	$551,603	$0	
(3)	**Subtotal**	(1) + (2)	**$22,340,115**	**$20,190,353**	**$16,114,593**	**$12,392,219**	**$12,157,529**	
(4)	Cost of Capital	Nov'12-Jan'13: Dkt 3943 Feb'13-Mar'13: Dkt 4323	7.22%	7.22%	7.22%	7.54%	7.54%	
(5)	Return on Working Capital Requirement	(3) * (4)	$1,612,956	$1,457,744	$1,163,474	$934,373	$916,678	$6,085,224
(6)	Weighted Cost of Debt	Nov'12-Jan'13: Dkt 3943 Feb'13-Mar'13: Dkt 4323	2.21%	2.21%	2.21%	2.86%	2.86%	
(7)	Interest Charges Financed	(3) * (6)	$493,717	$446,207	$356,132	$354,417	$347,705	$1,998,179
(8)	Taxable Income	(5) - (7)	$1,119,240	$1,011,537	$807,341	$579,956	$568,972	
(9)	1 - Combined Tax Rate	Nov'12-Jan'13: Dkt 3943 Feb'13-Mar'13: Dkt 4323	0.65	0.65	0.65	0.65	0.65	
(10)	Return and Tax Requirement	(8) / (9)	$1,721,907	$1,556,210	$1,242,063	$892,240	$875,342	$6,287,763
(11)	Working Capital Requirement	(7) + (10)	$2,215,624	$2,002,417	$1,598,196	$1,246,657	$1,223,047	$8,285,941
(12)	Storage-Related Inventory Costs	(11) / 12	$184,635	$166,868	$133,183	$103,888	$101,921	$690,495
(13)	**LNG Inventory Balance**		$4,139,002	$4,135,110	$2,774,173	$2,380,897	$2,450,336	
(14)	Cost of Capital	Nov'12-Jan'13: Dkt 3943 Feb'13-Mar'13: Dkt 4323	7.22%	7.22%	7.22%	7.54%	7.54%	
(15)	Return on Working Capital Requirement	(13) * (14)	$298,836	$298,555	$200,295	$179,520	$184,755	$1,161,961
(16)	Weighted Cost of Debt	Nov'12-Jan'13: Dkt 3943 Feb'13-Mar'13: Dkt 4323	2.21%	2.21%	2.21%	2.86%	2.86%	
(17)	Interest Charges Financed	(13) * (16)	$91,472	$91,386	$61,309	$68,094	$70,080	$382,340
(18)	Taxable Income	(15) - (17)	$207,364	$207,169	$138,986	$111,426	$114,676	
(19)	1 - Combined Tax Rate	Nov'12-Jan'13: Dkt 3943 Feb'13-Mar'13: Dkt 4323	0.65	0.65	0.65	0.65	0.65	
(20)	Return and Tax Requirement	(18) / (19)	$319,022	$318,722	$213,825	$171,425	$176,424	$1,199,417
(21)	Working Capital Requirement	(17) + (20)	$410,494	$410,107	$275,134	$239,518	$246,504	$1,581,757
(22)	LNG-Related Inventory Costs	(21) / 12	$34,208	$34,176	$22,928	$19,960	$20,542	$131,813
(23)	Total Inventory Financing Costs	(12) + (22)	**$218,843**	**$201,044**	**$156,111**	**$123,848**	**$122,463**	**$822,308**

National Grid
Rhode Island - Gas

Attachment II

Schedule 6
Page 1 of 1

Actual Dth Usage for Filing

Line No	THROUGHPUT (Dth) Rate Class (a)	Nov-12 actual (b)	Dec-12 actual (c)	Jan-13 actual (d)	Feb-13 actual (e)	Mar-13 actual (f)	Nov'12-Mar'13 (g)
(1)	**SALES (dth)**						
(2)	Residential Non-Heating	45,986	78,983	98,907	109,290	100,574	**433,741**
(3)	Residential Non-Heating Low Income	1,703	3,229	4,277	4,875	3,978	**18,062**
(4)	Residential Heating	902,551	1,903,463	2,537,878	2,912,936	2,519,777	**10,776,605**
(5)	Residential Heating Low Income	94,997	190,048	248,229	279,036	237,030	**1,049,341**
(6)	Small C&I	106,317	269,726	399,055	480,777	383,696	**1,639,571**
(7)	Medium C&I	157,402	353,174	445,472	519,825	464,259	**1,940,132**
(8)	Large LLF	32,445	71,925	92,532	100,071	92,433	**389,407**
(9)	Large HLF	19,644	27,483	34,578	30,406	30,759	**142,871**
(10)	Extra Large LLF	6,035	10,809	13,483	52,746	16,577	**99,651**
(11)	Extra Large HLF	17,828	28,328	28,122	26,719	26,175	**127,171**
(12)	**Total Sales**	1,384,909	2,937,167	3,902,535	4,516,681	3,875,259	**16,616,551**
(13)	**TSS**						
(14)	Small	0	0	0	0	128	**128**
(15)	Medium	4,389	7,361	5,297	6,713	7,281	**31,041**
(16)	Large LLF	5,050	8,828	3,082	5,581	3,685	**26,227**
(17)	Large HLF	2,606	617	622	6	3	**3,854**
(18)	Extra Large LLF	0	0	0	0	0	**0**
(19)	Extra Large HLF	0	2,042	0	0	0	**2,042**
(20)	**Total TSS**	12,045	18,849	9,002	12,300	11,097	**63,291**
(21)	**Sales & TSS THROUGHPUT**						
(22)	Residential Non-Heating	45,986	78,983	98,907	109,290	100,574	**433,741**
(23)	Residential Non-Heating Low Income	1,703	3,229	4,277	4,875	3,978	**18,062**
(24)	Residential Heating	902,551	1,903,463	2,537,878	2,912,936	2,519,777	**10,776,605**
(25)	Residential Heating Low Income	94,997	190,048	248,229	279,036	237,030	**1,049,341**
(26)	Small C&I	106,317	269,726	399,055	480,777	383,824	**1,639,699**
(27)	Medium C&I	161,791	360,535	450,770	526,537	471,539	**1,971,172**
(28)	Large LLF	37,495	80,754	95,614	105,653	96,118	**415,634**
(29)	Large HLF	22,250	28,100	35,201	30,412	30,762	**146,725**
(30)	Extra Large LLF	6,035	10,809	13,483	52,746	16,577	**99,651**
(31)	Extra Large HLF	17,828	30,370	28,122	26,719	26,175	**129,213**
(32)	**Total Sales & TSS Throughput**	1,396,953	2,956,016	3,911,537	4,528,981	3,886,355	**16,679,842**
(33)	**FT-1 TRANSPORTATION**						
(34)	FT-1 Medium	50,249	112,569	95,414	123,862	86,589	**468,683**
(35)	FT-1 Large LLF	73,300	188,138	170,378	215,449	135,159	**782,424**
(36)	FT-1 Large HLF	38,036	56,075	50,686	66,624	49,168	**260,588**
(37)	FT-1 Extra Large LLF	89,466	187,747	168,411	258,174	75,874	**779,672**
(38)	FT-1 Extra Large HLF	404,407	506,893	470,541	590,059	417,887	**2,389,788**
(39)	Default	1,820	8,109	7,008	9,834	5,832	**32,603**
(40)	**Total FT-1 Transportation**	657,279	1,059,531	962,438	1,264,001	770,509	**4,713,758**
(41)	**FT-2 TRANSPORTATION**						
(42)	FT-2 Small	0	808	1,364	2,595	2,320	**7,087**
(43)	FT-2 Medium	78,225	178,409	216,523	252,674	224,775	**950,605**
(44)	FT-2 Large LLF	55,167	174,242	127,016	203,820	166,189	**726,433**
(45)	FT-2 Large HLF	19,673	31,380	35,172	37,007	33,651	**156,882**
(46)	FT-2 Extra Large LLF	381	2,458	5,351	5,409	5,267	**18,866**
(47)	FT-2 Extra Large HLF	15,003	13,056	19,572	17,219	16,570	**81,420**
(48)	**Total FT-2 Transportation**	168,448	399,545	403,634	516,129	446,451	**1,934,207**
(49)	**Total THROUGHPUT**						
(50)	Residential Non-Heating	45,986	78,983	98,907	109,290	100,574	**433,741**
(51)	Residential Non-Heating Low Income	1,703	3,229	4,277	4,875	3,978	**18,062**
(52)	Residential Heating	902,551	1,903,463	2,537,878	2,912,936	2,519,777	**10,776,605**
(53)	Residential Heating Low Income	94,997	190,048	248,229	279,036	237,030	**1,049,341**
(54)	Small C&I	106,317	269,726	399,055	480,777	383,824	**1,639,699**
(55)	Medium C&I	290,265	651,514	762,706	903,074	782,902	**3,390,460**
(56)	Large LLF	165,962	443,134	393,008	524,921	397,466	**1,924,491**
(57)	Large HLF	79,960	115,555	121,058	134,042	113,580	**564,195**
(58)	Extra Large LLF	95,882	201,014	187,246	316,328	97,718	**898,189**
(59)	Extra Large HLF	437,237	550,319	518,236	633,997	460,632	**2,600,421**
(60)	Default	1,820	8,109	7,008	9,834	5,832	**32,603**
(61)	**Total Throughput**	2,222,680	4,415,092	5,277,609	6,309,110	5,103,315	**23,327,807**

Attachment AEL-3
REDACTED

Attachment AEL-3
Projected Gas Cost Balances

The Narragansett Electric Company
d/b/a National Grid
Docket No. 4436
Attachment AEL-3
Redacted
Page 1 of 1

REDACTED

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
Projected Gas Cost Deferred Balances

Line No	Description	Reference	Nov-13 forecast	Dec-13 forecast	Jan-14 forecast	Feb-14 forecast	Mar-14 forecast	Apr-14 forecast	May-14 forecast	Jun-14 forecast	Jul-14 forecast	Aug-14 forecast	Sep-14 forecast	Oct-14 forecast	Nov - Oct
(1)	# of Days in Month		30	31	31	28	31	30	31	30	31	31	30	31	365
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
(2)	I Fixed Cost Deferred														
(3)	Beginning Balance	Nov-13 AEL-1 pg 6, (l)17; Dec 13 - Oct 14 Previous month line (16)	($4,245,368)	($3,583,495)	($4,244,981)	($6,956,591)	($9,635,905)	($11,757,924)	($12,133,647)	($11,244,671)	($9,326,699)	($6,992,358)	($4,590,828)	($2,276,744)	($4,245,368)
(4)	Fixed Costs (net of cap rel)	AEL-1 pg 4, Line (59)	$3,256,674	$3,612,331	$3,610,980	$3,597,759	$3,610,980	$3,883,894	$3,884,551	$3,883,894	$3,884,551	$3,884,551	$3,883,894	$3,884,551	$44,878,613
(5)	NGPMP Credits	EDA-1	($575,000)	($575,000)	($575,000)	($575,000)	($575,000)	($575,000)	($575,000)	($575,000)	($575,000)	($575,000)	($575,000)	($575,000)	($6,900,000)
(6)	Working Capital	AEL-1 pg 8, Line (16)	$18,856	$20,965	$20,957	$20,878	$20,957	$22,575	$22,578	$22,575	$22,578	$22,578	$22,575	$22,578	$260,649
(7)	LNG Demand to DAC	Dkt 4339	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($124,066)	($1,488,790)
(8)	Supply Related LNG O & M	Dkt 4323	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$47,965	$575,581
(9)	Total Supply Fixed Costs	sum[(4) (8)]	$2,624,430	$2,982,195	$2,980,836	$2,967,537	$2,980,836	$3,255,368	$3,256,029	$3,255,368	$3,256,029	$3,256,029	$3,255,368	$3,256,029	$37,326,054
(10)	Fixed - Revenue	AEL-1 pg 7, Line (10)	($1,950,336)	($3,639,528)	($5,686,503)	($5,638,900)	($5,091,504)	($3,618,825)	($2,354,650)	($1,326,834)	($913,031)	($848,353)	($937,759)	($1,065,046)	($33,071,267)
(11)	Prelim. Ending Balance	(3) + (9) + (10)	($3,571,275)	($4,240,828)	($6,950,648)	($9,627,954)	($11,746,574)	($12,121,380)	($11,232,268)	($9,316,137)	($6,983,700)	($4,584,682)	($2,273,218)	($85,761)	
(12)	Month's Average Balance	[(3) + (11)] / 2	($3,908,322)	($3,912,161)	($5,597,815)	($8,292,272)	($10,691,239)	($11,939,652)	($11,682,958)	($10,280,404)	($8,155,200)	($5,788,520)	($3,432,023)	($1,181,253)	
(13)	Interest Rate (BOA Prime minus 200 bps)		1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
(14)	Interest Applied	[(12) * (13)] / 365 * (1)	($4,015)	($4,153)	($5,943)	($7,951)	($11,350)	($12,267)	($12,403)	($10,562)	($8,658)	($6,145)	($3,526)	($1,254)	($88,229)
(15)	Marketer Reconcilation	AEL-7, Line (50)	($8,205)												($8,205)
(16)	Fixed Ending Balance	(11) + (14) + (15)	($3,583,495)	($4,244,981)	($6,956,591)	($9,635,905)	($11,757,924)	($12,133,647)	($11,244,671)	($9,326,699)	($6,992,358)	($4,590,828)	($2,276,744)	($87,015)	($87,015)
(17)	II Variable Cost Deferred														
(18)	Beginning Balance	Nov-13 AEL-1 pg 6, (l)34; Dec 13 - Oct 14 Previous month line (32)	$16,104,739	$16,841,934	[redacted]	[redacted]	[redacted]	[redacted]	$6,642,708	$2,549,727	$514,024	($135,224)	($396,235)	($1,052,752)	$16,104,739
(19)	Variable Costs	AEL-1 pg 5, Line (90)	$8,249,149	[redacted]	[redacted]	[redacted]	[redacted]	$8,458,754	$5,224,887	$2,910,252	$2,514,688	$2,616,451	$2,599,204	$4,937,433	$115,846,905
(20)	Supply Related LNG to DAC	Dkt 4339	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
(21)	Supply Related LNG O & M	Dkt 4323	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$47,725	$572,694
(22)	Inventory Financing - LNG	AEL-1 pg 10, Line (22)	$41,517	$40,585	$30,282	$29,442	$28,510	$27,612	$33,356	$32,477	$31,566	$30,654	$36,382	$40,819	$403,203
(23)	Inventory Financing - UG	AEL-1 pg 10, Line (12)	$151,886	$149,287	$114,585	$84,015	$79,079	$99,913	$115,051	$122,240	$129,600	$142,652	$145,942	$150,960	$1,485,211
(24)	Working Capital	AEL-1 pg 8, Line (32)	$49,188	$110,937	$150,407	$107,965	$96,239	$50,431	$31,259	$17,536	$15,191	$15,795	$15,692	$29,555	$690,195
(25)	Total Variable Costs	sum[(19) (24)]	$8,539,464	[redacted]	[redacted]	[redacted]	[redacted]	$8,684,435	$5,452,277	$3,130,230	$2,738,770	$2,853,277	$2,844,946	$5,206,491	$118,998,209
(26)	Variable - Revenue	AEL-1 pg 7, Line (15)	($7,819,186)	($15,037,460)	($23,766,942)	($23,567,844)	($21,215,141)	($14,933,295)	($9,550,135)	($5,167,506)	($3,388,219)	($3,114,005)	($3,500,719)	($4,040,549)	($135,101,001)
(27)	Prelim. Ending Balance	(18) + (25) + (26)	$16,825,018	[redacted]	[redacted]	[redacted]	[redacted]	$6,632,684	$2,544,850	$512,451	($135,425)	($395,953)	($1,052,008)	$113,190	
(28)	Month's Average Balance	[(18) + (27)] / 2	$16,464,879	[redacted]	[redacted]	[redacted]	[redacted]	$9,757,113	$4,593,779	$1,531,089	$189,299	($265,589)	($724,121)	($469,781)	
(29)	Interest Rate (BOA Prime minus 200 bps)		1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
(30)	Interest Applied	[(28) * (29)] / 365 * (1)	$16,916	$19,991	$23,130	$19,362	$16,195	$10,024	$4,877	$1,573	$201	($282)	($744)	($499)	$110,744
(31)	Gas Procurement Incentive/(penalty)		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
(32)	Variable Ending Balance	(27) + (30) + (31)	$16,841,934	[redacted]	[redacted]	[redacted]	[redacted]	$6,642,708	$2,549,727	$514,024	($135,224)	($396,235)	($1,052,752)	$112,691	$112,691
(33)	**GCR Deferred Summary**														
(34)	Beginning Balance	(3) + (18)	$11,859,371	$13,258,439	[redacted]	[redacted]	[redacted]	[redacted]	($5,490,939)	($8,694,944)	($8,812,675)	($7,127,583)	($4,987,062)	($3,329,496)	$11,859,371
(35)	Gas Costs	sum[(4),(7),(8),(15),(19) (21)]	$11,469,243	[redacted]	[redacted]	[redacted]	[redacted]	$12,314,272	$9,081,062	$6,765,770	$6,370,863	$6,472,627	$6,454,723	$8,793,608	$160,376,800
(36)	Inventory Finance	(22) + (23)	$193,402	$189,872	$144,868	$113,457	$107,589	$127,526	$148,407	$154,717	$161,166	$173,306	$182,324	$191,779	$1,888,415
(37)	Working Capital	(6) + (24)	$68,044	$131,902	$171,364	$128,843	$117,195	$73,005	$53,837	$40,111	$37,770	$38,373	$38,267	$52,133	$950,844
(38)	NGPMP Credits	(5)	($575,000)	($575,000)	($575,000)	($575,000)	($575,000)	($575,000)	($575,000)	($575,000)	($575,000)	($575,000)	($575,000)	($575,000)	($6,900,000)
(39)	Total Costs	sum[(35) (38)]	$11,155,689	[redacted]	[redacted]	[redacted]	[redacted]	$11,939,804	$8,708,306	$6,385,598	$5,994,799	$6,109,306	$6,100,314	$8,462,520	$156,316,058
(40)	Revenue	(10) + (26)	($9,769,522)	($18,676,988)	($29,453,445)	($29,206,744)	($26,306,645)	($18,552,120)	($11,904,785)	($6,494,340)	($4,301,250)	($3,962,358)	($4,438,478)	($5,105,595)	($168,172,268)
(41)	Prelim. Ending Balance	(34) + (39) + (40)	$13,245,538	[redacted]	[redacted]	[redacted]	[redacted]	($5,488,697)	($8,687,418)	($8,803,686)	($7,119,126)	($4,980,635)	($3,325,226)	$27,429	$3,161
(42)	Month's Average Balance	[(34) + (41)] / 2	$12,552,455	[redacted]	[redacted]	[redacted]	[redacted]	($2,182,539)	($7,089,178)	($8,749,315)	($7,965,900)	($6,054,109)	($4,156,144)	($1,651,033)	
(43)	Interest Rate (BOA Prime minus 200 bps)		1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	
(44)	Interest Applied	(14) + (30)	$12,901	$15,837	$17,187	$11,410	$4,844	($2,242)	($7,526)	($8,989)	($8,457)	($6,427)	($4,270)	($1,753)	$22,515
(45)	Gas Purchase Plan Incentives/(Penalties)	(31)	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	
(46)	**Ending Bal. W/ Interest**	(41) + (44) + (45)	$13,258,439	[redacted]	[redacted]	[redacted]	[redacted]	($5,490,939)	($8,694,944)	($8,812,675)	($7,127,583)	($4,987,062)	($3,329,496)	**$25,676**	$25,676

Attachment AEL-4

Attachment AEL-4
Bill Impact Analysis

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

Line No. **GCR**

Residential Heating:

Line No.		Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference	% Chg	Difference due to: GCR	DAC: Base DAC	DAC: ISR	EE
(5)		550	$823	$833	($10)	-1.2%	($5)	($5)	$0	$0
(6)		608	$893	$904	($11)	-1.3%	($6)	($5)	$0	$0
(7)		667	$964	$976	($12)	-1.3%	($7)	($6)	$0	$0
(8)		727	$1,035	$1,049	($14)	-1.3%	($7)	($6)	$0	$0
(9)		788	$1,104	$1,119	($15)	-1.3%	($8)	($7)	$0	$0
(10)	Average Customer	**846**	**$1,169**	**$1,185**	**($16)**	**-1.3%**	($8)	($7)	$0	$0
(11)		904	$1,234	$1,251	($17)	-1.4%	($9)	($8)	$0	$0
(12)		966	$1,303	$1,321	($18)	-1.4%	($10)	($9)	$0	$0
(13)		1,023	$1,367	$1,386	($19)	-1.4%	($10)	($9)	$0	$0
(14)		1,081	$1,430	$1,450	($20)	-1.4%	($11)	($10)	$0	$0
(15)		1,145	$1,500	$1,521	($21)	-1.4%	($11)	($10)	$0	$0

Residential Heating Low Income:

Line No.		Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference	% Chg	Difference due to: GCR	DAC: Base DAC	DAC: ISR	EE
(20)		550	$782	$792	($10)	-1.3%	($5)	($5)	$0	$0
(21)		608	$849	$860	($11)	-1.3%	($6)	($5)	$0	$0
(22)		667	$917	$930	($12)	-1.3%	($7)	($6)	$0	$0
(23)		727	$986	$1,000	($14)	-1.4%	($7)	($6)	$0	$0
(24)		788	$1,053	$1,068	($15)	-1.4%	($8)	($7)	$0	$0
(25)	Average Customer	**846**	**$1,115**	**$1,131**	**($16)**	**-1.4%**	($8)	($7)	$0	$0
(26)		904	$1,178	$1,195	($17)	-1.4%	($9)	($8)	$0	$0
(27)		966	$1,245	$1,263	($18)	-1.4%	($10)	($9)	$0	$0
(28)		1,023	$1,306	$1,325	($19)	-1.4%	($10)	($9)	$0	$0
(29)		1,081	$1,368	$1,388	($20)	-1.5%	($11)	($10)	$0	$0
(30)		1,145	$1,435	$1,457	($21)	-1.5%	($11)	($10)	$0	$0

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

Line No. **GCR**

Residential Non-Heating:

Line No.		Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference	% Chg	Difference due to: GCR	DAC: Base DAC	DAC: ISR	EE
(31)										
(32)										
(33)										
(34)										
(35)		140	$315	$319	($3)	-1.0%	$2	($5)	$0	$0
(36)		155	$332	$336	($4)	-1.0%	$2	($6)	$0	$0
(37)		171	$351	$354	($4)	-1.1%	$2	($6)	$0	$0
(38)		184	$365	$370	($4)	-1.1%	$3	($7)	$0	$0
(39)		198	$381	$386	($5)	-1.2%	$3	($7)	$0	$0
(40)	Average Customer	**214**	**$399**	**$404**	**($5)**	**-1.2%**	$3	($8)	$0	$0
(41)		228	$415	$421	($5)	-1.2%	$3	($8)	$0	$0
(42)		244	$434	$439	($5)	-1.2%	$3	($9)	$0	$0
(43)		258	$450	$455	($6)	-1.3%	$4	($9)	$0	$0
(44)		275	$469	$475	($6)	-1.3%	$4	($10)	$0	$0
(45)		288	$484	$490	($7)	-1.3%	$4	($11)	$0	$0

Residential Non-Heating Low Income:

Line No.		Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference	% Chg	Difference due to: GCR	DAC: Base DAC	DAC: ISR	EE
(46)										
(47)										
(48)										
(49)										
(50)		140	$294	$297	($3)	-1.1%	$2	($5)	$0	$0
(51)		155	$310	$313	($4)	-1.1%	$2	($6)	$0	$0
(52)		171	$328	$331	($4)	-1.2%	$2	($6)	$0	$0
(53)		184	$342	$346	($4)	-1.2%	$3	($7)	$0	$0
(54)		198	$357	$362	($5)	-1.2%	$3	($7)	$0	$0
(55)	Average Customer	**214**	**$374**	**$379**	**($5)**	**-1.3%**	$3	($8)	$0	$0
(56)		228	$390	$395	($5)	-1.3%	$3	($8)	$0	$0
(57)		244	$407	$413	($5)	-1.3%	$3	($9)	$0	$0
(58)		258	$423	$429	($6)	-1.4%	$4	($9)	$0	$0
(59)		275	$441	$448	($6)	-1.4%	$4	($10)	$0	$0
(60)		288	$456	$462	($7)	-1.4%	$4	($11)	$0	$0

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

GCR

C & I Small:

Line No.		Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference	% Chg	Difference due to: GCR	DAC: Base DAC	DAC: ISR	EE
(61)										
(62)										
(63)										
(64)										
(65)		880	$1,358	$1,372	($14)	-1.0%	($9)	($5)	$0	$0
(66)		973	$1,460	$1,476	($16)	-1.1%	($10)	($6)	$0	$0
(67)		1,067	$1,563	$1,580	($17)	-1.1%	($11)	($7)	$0	$0
(68)		1,162	$1,664	$1,683	($19)	-1.1%	($11)	($7)	$0	$0
(69)		1,258	$1,761	$1,782	($20)	-1.1%	($12)	($8)	$0	$0
(70)	Average Customer	**1,352**	**$1,855**	**$1,877**	**($22)**	**-1.2%**	($13)	($8)	$0	$0
(71)		1,446	$1,950	$1,973	($23)	-1.2%	($14)	($9)	$0	$0
(72)		1,542	$2,045	$2,070	($25)	-1.2%	($15)	($10)	$0	$0
(73)		1,635	$2,139	$2,165	($26)	-1.2%	($16)	($10)	$0	$0
(74)		1,730	$2,232	$2,260	($28)	-1.2%	($17)	($11)	$0	$0
(75)		1,825	$2,326	$2,356	($29)	-1.2%	($18)	($11)	$0	$0

C & I Medium:

Line No.		Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference	% Chg	Difference due to: GCR	DAC: Base DAC	DAC: ISR	EE
(76)										
(77)										
(78)										
(79)										
(80)		7,941	$8,970	$9,101	($130)	-1.4%	($79)	($52)	$0	$0
(81)		8,796	$9,846	$9,990	($144)	-1.4%	($87)	($57)	$0	$0
(82)		9,650	$10,720	$10,879	($158)	-1.5%	($96)	($63)	$0	$0
(83)		10,505	$11,596	$11,768	($172)	-1.5%	($104)	($68)	$0	$0
(84)		11,361	$12,472	$12,659	($186)	-1.5%	($113)	($74)	$0	$0
(85)	Average Customer	**12,217**	**$13,349**	**$13,549**	**($200)**	**-1.5%**	($121)	($79)	$0	$0
(86)		13,073	$14,225	$14,440	($214)	-1.5%	($129)	($85)	$0	$0
(87)		13,928	$15,100	$15,329	($228)	-1.5%	($138)	($91)	$0	$0
(88)		14,782	$15,975	$16,218	($242)	-1.5%	($146)	($96)	$0	$0
(89)		15,637	$16,850	$17,107	($256)	-1.5%	($155)	($102)	$0	$0
(90)		16,492	$17,726	$17,997	($270)	-1.5%	($163)	($107)	$0	$0

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

GCR

C & I LLF Large:

Line No.		Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference	% Chg	Difference due to: GCR	DAC: Base DAC	DAC: ISR	EE
(95)		41,066	$42,600	$42,912	($312)	-0.7%	($407)	$94	$0	$0
(96)		45,488	$46,961	$47,307	($346)	-0.7%	($450)	$105	$0	$0
(97)		49,910	$51,322	$51,702	($379)	-0.7%	($494)	$115	$0	$0
(98)		54,334	$55,685	$56,098	($413)	-0.7%	($538)	$125	$0	$0
(99)		58,757	$60,047	$60,494	($447)	-0.7%	($582)	$135	$0	$0
(100)	Average Customer	**63,179**	**$64,409**	**$64,889**	**($480)**	**-0.7%**	($625)	$145	$0	$0
(101)		67,600	$68,769	$69,282	($514)	-0.7%	($669)	$156	$0	$0
(102)		72,023	$73,131	$73,678	($547)	-0.7%	($713)	$166	$0	$0
(103)		76,447	$77,494	$78,075	($581)	-0.7%	($757)	$176	$0	$0
(104)		80,870	$81,856	$82,471	($615)	-0.7%	($801)	$186	$0	$0
(105)		85,292	$86,217	$86,865	($648)	-0.7%	($844)	$196	$0	$0

Lines (91)–(94) contain the column headings.

C & I HLF Large:

Line No.		Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference	% Chg	Difference due to: GCR	DAC: Base DAC	DAC: ISR	EE
(110)		50,411	$128,014	$127,096	$918	0.7%	$711	$207	$0	$0
(111)		55,841	$141,576	$140,560	$1,016	0.7%	$787	$229	$0	$0
(112)		61,273	$155,144	$154,029	$1,115	0.7%	$864	$251	$0	$0
(113)		66,699	$168,697	$167,483	$1,214	0.7%	$940	$273	$0	$0
(114)		72,129	$182,260	$180,947	$1,313	0.7%	$1,017	$296	$0	$0
(115)	Average Customer	**77,558**	**$195,821**	**$194,409**	**$1,412**	**0.7%**	$1,094	$318	$0	$0
(116)		82,989	$209,385	$207,875	$1,510	0.7%	$1,170	$340	$0	$0
(117)		88,416	$222,940	$221,331	$1,609	0.7%	$1,247	$362	$0	$0
(118)		93,847	$236,505	$234,797	$1,708	0.7%	$1,323	$385	$0	$0
(119)		99,275	$250,063	$248,256	$1,807	0.7%	$1,400	$407	$0	$0
(120)		104,705	$263,626	$261,720	$1,906	0.7%	$1,476	$429	$0	$0

Lines (106)–(109) contain the column headings.

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

Line No.	**GCR**									
	C & I LLF Extra-Large:									
							Difference due to:			
(121)		Annual	Proposed	Current						
(122)		Consumption (Therms)	Rates	Rates	Difference	% Chg	GCR	DAC		EE
(123)								Base DAC	ISR	
(124)			------------	------------	------------	------------	------------	------------	------------	------------
(125)		174,357	$151,172	$152,637	($1,465)	-1.0%	$711	$262	$0	$0
(126)		193,136	$166,904	$168,527	($1,622)	-1.0%	$787	$290	$0	$0
(127)		211,912	$182,634	$184,414	($1,780)	-1.0%	$864	$318	$0	$0
(128)		230,688	$198,365	$200,303	($1,938)	-1.0%	$940	$346	$0	$0
(129)		249,466	$214,096	$216,192	($2,096)	-1.0%	$1,017	$374	$0	$0
(130)	Average Customer	**268,243**	**$229,827**	**$232,080**	**($2,253)**	**-1.0%**	$1,094	$402	$0	$0
(131)		287,018	$245,557	$247,968	($2,411)	-1.0%	$1,170	$431	$0	$0
(132)		305,796	$261,289	$263,857	($2,569)	-1.0%	$1,247	$459	$0	$0
(133)		324,573	$277,019	$279,746	($2,726)	-1.0%	$1,323	$487	$0	$0
(134)		343,350	$292,750	$295,634	($2,884)	-1.0%	$1,400	$515	$0	$0
(135)		362,127	$308,481	$311,523	($3,042)	-1.0%	$1,476	$543	$0	$0

	C & I HLF Extra-Large:									
							Difference due to:			
(136)		Annual	Proposed	Current						
(137)		Consumption (Therms)	Rates	Rates	Difference	% Chg	GCR	DAC		EE
(138)								Base DAC	ISR	
(139)			------------	------------	------------	------------	------------	------------	------------	------------
(140)		447,421	$358,846	$351,285	$7,561	2.2%	$6,309	$1,253	$0	$0
(141)		495,605	$396,942	$388,566	$8,376	2.2%	$6,988	$1,388	$0	$0
(142)		543,789	$435,038	$425,848	$9,190	2.2%	$7,667	$1,523	$0	$0
(143)		591,972	$473,133	$463,129	$10,004	2.2%	$8,347	$1,658	$0	$0
(144)		640,155	$511,228	$500,409	$10,819	2.2%	$9,026	$1,792	$0	$0
(145)	Average Customer	**688,340**	**$549,325**	**$537,692**	**$11,633**	**2.2%**	$9,706	$1,927	$0	$0
(146)		736,523	$587,420	$574,973	$12,447	2.2%	$10,385	$2,062	$0	$0
(147)		784,708	$625,516	$612,255	$13,262	2.2%	$11,064	$2,197	$0	$0
(148)		832,891	$663,612	$649,536	$14,076	2.2%	$11,744	$2,332	$0	$0
(149)		881,074	$701,707	$686,817	$14,890	2.2%	$12,423	$2,467	$0	$0
(150)		929,259	$739,804	$724,099	$15,704	2.2%	$13,103	$2,602	$0	$0

Attachment AEL-5
FT-2 Demand Rate

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
Summary of Marketer Transportation Factors

Line No.	Item	Reference	Proposed	Billing Units
	(a)	(b)	(c)	(d)
(1)	**FT-2 Demand**	AEL-5 pg 2, Line (20)	**$9.7373**	Dth/Mth
(2)	**Weighted Average Upstream Pipeline Transportation Cost**	EDA - 4	**$0.9383**	Per Dth of capacity

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
Calculation of FT- 2 Demand Rate (per Dth)

Line No.	Description	Source: Reference	Source: Line #	Amount	
	(a)	(b)	(c)	(d)	
(1)	Storage Fixed Costs	AEL-1 pg 4	Line (58)	$15,830,032	
	Less:				
(2)	LNG Demand to DAC	AEL-1 pg 2	Line (5)	($1,488,790)	
(3)	Credits			$0	
(4)	Refunds			$0	
(5)	Total Credits	sum [(2):(4)]		($1,488,790)	
	Plus:				
(6)	Supply Related LNG O&M Costs	Dkt 4323		$575,581	
(7)	Working Capital Requirement	AEL-1 pg 9	Line (47)	$88,435	
(8)	Total Additions	sum [(6):(7)]		$664,016	
(9)	Total Storage Fixed Costs	(1) + (5) + (8)		$15,005,258	
	Inventory Financing				
(10)	Underground	AEL-1 pg 10	Line (12)	$1,485,211	
(11)	LNG	AEL-1 pg 10	Line (22)	$403,203	
(12)	Total Storage Fixed Costs	(9) + (10) + (11)		$16,893,673	
(13)	LNG Storage MDQ (Dth)	AEL-1 pg 12	Line (14)	106,911	
(14)	AGT	EDA-4		31,578	
(15)	TENN	EDA-4		10,836	
(16)	Total Storage MDQ	sum [(13):(15)]		149,325	
(17)	Storage MDQ X 12 Months	(16) *12		1,791,900	MDCQ Dth
(18)	FT- 2 Demand Rate	(12) / (17)		$9.4277	per MDCQ Dth
(19)	Uncollectible %	Docket 4323		3.18%	
(20)	Total FT-2 Demand Rate adjusted for Uncollectibles	(18) / [(1 - (19)]		$9.7373	per MDCQ Dth

National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
Calculation of FT-2 Demand Costs

Line No.	Description	Source Reference	Source Line #	Amount	
	(a)	(b)	(c)	(d)	
(1)	FT- 2 Demand Rate	AEL-5 pg 2	Line (18)	$9.4277	per MDCQ Dth
(2)	MDQ-U	Mkter MDQ Forecast		3,852	
(3)	MDQ-P	Mkter MDQ Forecast		9,781	
(4)	Marketer MDQs	(2) + (3)		13,633	Dth/Mth
(5)	**FT-2 Storage Costs**	(1) x (4) x 12 Months		**$1,542,334**	

Attachment AEL-6

Attachment AEL-6
FT-2 Capacity Allocator Percentages

RI Gas Company
Capacity Assignment Table

			% of Peak Day Requirement				% of Total Capacity		
Line No.	Load (a)	Rate Class (b)	Pipeline (c)	Storage (d)	Peaking (e)	Total (f)	Pipeline (g)	Storage (h)	Peaking (i)
(1)	HLF	Res - Non-Heating	62.0%	11.0%	27.0%	100.0%	2.1%	1.8%	1.8%
(2)	HLF	Res - Non-Heating LI	62.0%	11.0%	27.0%	100.0%			
(3)	LLF	Res - Heating	54.0%	13.0%	33.0%	100.0%	57.3%	58.5%	58.5%
(4)	LLF	Res - Heating LI	54.0%	13.0%	33.0%	100.0%			
(5)	LLF	Small	54.0%	13.0%	33.0%	100.0%	8.6%	9.1%	9.1%
(6)	LLF	Med	54.0%	13.0%	33.0%	100.0%	9.5%	9.1%	9.1%
(7)	LLF	Large Low Load	54.0%	13.0%	33.0%	100.0%	1.9%	2.0%	2.0%
(8)	HLF	Large High Load	62.0%	11.0%	27.0%	100.0%	0.6%	0.3%	0.3%
(9)	LLF	XL Low Load	54.0%	13.0%	33.0%	100.0%	0.3%	0.3%	0.3%
(10)	HLF	XL High Load	62.0%	11.0%	27.0%	100.0%	0.5%	0.3%	0.3%

(11)	HLF	High Load Factor	62.0%	11.0%	27.0%	100.0%	7.4%	5.4%	5.4%
(12)	LLF	Low Load Factor	54.0%	13.0%	33.0%	100.0%	92.6%	94.6%	94.6%
(13)		Total	55.0%	13.0%	32.0%	100.0%	100.0%	100.0%	100.0%

Attachment AEL-7

Attachment AEL-7
Marketer Reconciliation

2011-12 & 2012-13 Annual Marketer Reconciliation

Line No	Description	# of days	Reference	Tetco ELA /Algonquin	Tetco WLA /Algonquin	Tennessee Zone 1 to NEGC	Tetco STX /Algonquin	Algonquin @ Lambertville, NJ	Columbia (Maumee/Downington)	Total
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
	2012-2013 Marketer Reconciliation									
	MDCQ by Month									
(1)	Nov-12	30		184,920	251,310	285,030	84,150	41,640	1,140	848,190
(2)	Dec-12	31		192,200	260,741	294,531	95,356	43,555	961	887,344
(3)	Jan-13	31		193,657	261,020	294,500	99,541	48,174	992	897,884
(4)	Feb-13	28		174,972	235,620	265,972	91,028	43,596	924	812,112
(5)	Mar-13	31		193,719	260,648	294,469	100,440	47,368	1,116	897,760
(6)	Apr-13	30		188,070	252,360	285,000	97,860	46,230	1,080	870,600
(7)	May-13	31		194,432	260,741	294,500	101,742	48,112	1,116	900,643
(8)	Jun-13	30		188,280	252,510	284,970	99,540	47,400	1,020	873,720
(9)	Jul-13	31		194,463	261,020	294,469	102,734	48,577	1,023	902,286
(10)	Aug-13	31		194,401	261,175	294,469	103,044	48,608	961	902,658
(11)	Sep-13	30		188,130	252,750	284,970	99,720	47,040	930	873,540
(12)	Oct-13	31		194,401	261,175	294,469	103,044	48,608	961	902,658
(13)	Total		sum[(1):(12)]	2,281,645	3,071,070	3,467,349	1,178,199	558,908	12,224	10,569,395
	Approved									
(14)	System Average		Dkt 4346 EDA-4	$0 8601	$0 8601	$0 8601	$0 8601	$0 8601	$0 8601	
(15)	Path		Dkt 4346 EDA-4	$1 0184	$1 1297	$1 1467	$1 3359	$0 5559	$0 5331	
(16)	Credit/Surcharge		(14) - (15)	($0 1583)	($0 2696)	($0 2866)	($0 4758)	$0 3042	$0 3270	
	Revised									
(17)	System Average			$0 8625	$0 8625	$0 8625	$0 8625	$0 8625	$0 8625	
(18)	Path			$1 0330	$1 1443	$1 1467	$1 3505	$0 5705	$0 5477	
(19)	Credit/Surcharge		(17) - (18)	($0 1705)	($0 2818)	($0 2842)	($0 4880)	$0 2920	$0 3148	
(20)	Variance- approved Surcharge/Credit vs Revised Surcharge/Credit		(19) - (16)	($0 0122)	($0 0122)	$0 0024	($0 0122)	($0 0122)	($0 0122)	
(21)	Annual MDCQ		(13)	2,281,645	3,071,070	3,467,349	1,178,199	558,908	12,224	10,569,395
(22)	2012-13 Marketer Reconciliation Adjustment		(20) * (21)	($27,836)	($37,467)	$8,322	($14,374)	($6,819)	($149)	($78,323)

2011-12 & 2012-13 Annual Marketer Reconciliation

Line No	Description	# of days	Reference	Tetco ELA /Algonquin	Tetco WLA /Algonquin	Tennessee Zone 1 to NEGC	Tetco STX /Algonquin	Algonquin @ Lambertville, NJ	Columbia (Maumee/Downington)	Total
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
	2011-2012 Marketer Reconciliation									
	MDCQ by Month									
(23)	Nov-11	30		195,000	255,000	285,000	115,826	81,420	6,424	938,670
(24)	Dec-11	31		201,531	263,500	294,531	120,869	84,134	15,314	979,879
(25)	Jan-12	31		201,526	263,513	294,460	121,614	84,105	20,521	985,738
(26)	Feb-12	29		188,500	246,500	275,471	114,840	78,735	26,825	930,871
(27)	Mar-12	31		201,461	263,500	294,500	120,807	84,086	15,318	979,672
(28)	Apr-12	30		195,000	254,970	285,030	117,600	81,450	18,840	952,890
(29)	May-12	31		201,500	263,469	294,500	122,109	84,165	22,599	988,342
(30)	Jun-12	30		195,030	255,000	285,030	118,320	81,450	22,680	957,510
(31)	Jul-12	31		201,500	263,500	294,469	122,636	84,134	26,288	992,527
(32)	Aug-12	31		201,469	263,469	294,469	124,062	84,134	37,231	1,004,834
(33)	Sep-12	30		194,970	254,970	284,970	118,590	81,420	25,410	960,330
(34)	Oct-12	31		201,500	263,500	294,500	122,574	84,134	27,993	994,201
(35)	Total		sum[(23) (34)]	2,378,988	3,110,891	3,476,930	1,439,847	993,367	265,442	11,665,464
	Approved									
(36)	System Average		Dkt 4283 EDA-4	$0 9617	$0 9617	$0 9617	$0 9617	$0 9617	$0 9617	
(37)	Path		Dkt 4283 EDA-4	$0 9584	$1 1556	$1 2849	$1 3372	$0 8669	$0 6419	
(38)	Credit/Surcharge		(36) - (37)	$0 0033	($0 1939)	($0 3232)	($0 3755)	$0 0949	$0 3198	
	Revised									
(39)	System Average			$0 9252	$0 9252	$0 9252	$0 9252	$0 9252	$0 9252	
(40)	Path			$0 9584	$1 1556	$1 0205	$1 3372	$0 8669	$0 6419	
(41)	Credit/Surcharge		(39) - (40)	($0 0332)	($0 2304)	($0 0952)	($0 4119)	$0 0584	$0 2833	
(42)	Variance- approved Surcharge/Credit vs Revised Surcharge/Credit		(41) - (38)	($0 0365)	($0 0365)	$0 2279	($0 0365)	($0 0365)	($0 0365)	
(43)	Annual MDCQ		(35)	2,378,988	3,110,891	3,476,930	1,439,847	993,367	265,442	11,665,464
(44)	Updated 2011-12 Marketer Reconciliation Adjustment		(42) * (43)	($86,812)	($113,520)	$792,541	($52,542)	($36,249)	($9,686)	$493,733
(45)	2010-11 Marketer Reconciliation Adjustment									($102,587)
(46)	Total updated 2010-11 & 2011-12 Marketer Reconciliation with 2011-12 updated		(44) + (45)							$391,146
(47)	Prior Year Total 2010-11 & 2011-12 Marketer Reconciliation in Docket 4346									$374,462
(48)	Already Collected from Marketers									$304,618
(49)	Under/(Over)-collections for 2010-11 & 2011-12 Marketer Reconciliation		(46) - (48)							$86,528
(50)	**Total 2011-12 & 2012-13 Marketer Reconciliation- Surcharge to Marketers**		(22) + (49)							**$8,205**
(51)	**Total 2011-12 & 2012-13 Marketer Reconciliation- Surcharge credited to Firm Sales Customers**		- (50)							**($8,205)**

Line (45) Docket No 4346 Attachment AEL-7, Line 32, filed on September 1, 2012

Line (47) Docket No 4346 Attachment AEL-7, Line 67, filed on September 1, 2012

Line (48) Nov'12-July'13 as reflected in GCR Monthly Deferred Report filed on August 20, 2013 Schedule 2, Line 135   Aug'13-Oct'13 are projected collections