

October 14, 2010

VIA HAND DELIVERY & ELECTRONIC MAIL

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

**RE: Docket 4199 - 2010 Gas Charge Recovery Filing
Rebuttal Testimony**

Dear Ms Massaro:

Enclosed please find ten (10) copies of the pre-filed rebuttal testimony and schedules of Elizabeth D. Arangio and John F. Nestor, III, in support of National Grid's¹ Annual Gas Cost Recovery ("GCR") filing.

With the revisions to the proposed GCR rate that are incorporated in the rebuttal testimony, the overall impact of the proposed GCR rate on the annual bill of an average residential heating customer utilizing 922 therms is now a reduction of \$157.68 which when considered with the proposed DAC rate represents an overall bill reduction of 9.3%.

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 contained in its FCS contract with Distrigas as well as forecast basis numbers, which are purchased subject to a contractual confidentiality agreement. Accordingly, National Grid requests that the Commission protect the price terms and basis information set forth in designated portions of Attachments EDA-2 and EDA-4. To that end, the Company has provided the Commission with the confidential materials for its review, and has included redacted copies of these attachments in the filing.

Thank you for your attention to this filing. If you have any questions, please do not hesitate to contact me at (401) 784-7667.

Sincerely,



Thomas R. Teehan

Enclosures

cc: Leo Wold, Esq.
Steve Scialabba
Bruce Oliver

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

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

RHODE ISLAND PUBLIC UTILITIES COMMISSION

**Annual Gas Cost Recovery Filing 2010
Docket No. 4199**

**NATIONAL GRID'S REQUEST
FOR PROTECTIVE TREATMENT OF CONFIDENTIAL INFORMATION**

National Grid¹ 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)(i)(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 October 14, 2010, National Grid filed with the Commission its Annual Gas Cost Recovery filing in this docket. This filing included information relative to the Company’s Distrigas contract (Attachment EDA-2) and relative to forecasted basis numbers (Attachment EDA-4) for which National Grid is requesting confidential treatment.

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)(i)(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; or (2) to cause substantial harm to the competitive position of the person from whom the information 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

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

released to the public by the person from whom it was obtained. Providence Journal, 774 A.2d at 47.

In addition, the Court has held that the agencies making determinations as to the disclosure of information under APRA may apply the balancing test established in Providence Journal v. Kane, 577 A.2d 661 (R.I.1990). Under that balancing test, the Commission may protect information from public disclosure if the benefit of such protection outweighs the public interest inherent in disclosure of information pending before regulatory agencies.

II. BASIS FOR CONFIDENTIALITY

The Company has redacted forecasts of basis numbers that appear at portions of Attachment EDA-2, and Attachment EDA-4. The Company seeks protective treatment for information relative to its Distrigas contract and for its basis number information which provides price forecasts at specific points where gas is purchased. This information is assembled by a third-party and purchased by the Company subject to contractual agreement to maintain it as proprietary and confidential information.

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: October 14, 2010

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
PUBLIC UTILITIES COMMISSION

NATIONAL GRID

DOCKET No. 4199

REBUTTAL TESTIMONY

OF

ELIZABETH D. ARANGIO

October 14, 2010

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1 **I. INTRODUCTION**

2 **Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

3 **R.** My name is Elizabeth Danehy Arangio. My business address is 40 Sylvan Road,
4 Waltham, Massachusetts 02451.

5

6 **Q. HAVE YOU PREVIOUSLY SUBMITTED TESTIMONY IN THIS DOCKET?**

7 **A.** Yes. I previously submitted pre-filed Direct Testimony in this docket on September 1,
8 2010.

9

10 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

11 **A.** The purpose of this rebuttal testimony is to address specific Gas Cost Recovery (“GCR”) issues
12 raised in the October 7, 2010 Direct Testimony of Bruce R. Oliver on behalf of the Division of
13 Public Utilities and Carriers. (“Division”) In particular, my testimony will address two of Mr.
14 Oliver’s recommendations:

15 ■ *“if forward looking cost estimates are to be used in the pricing of capacity*
16 *released to marketers, then this Commission should mandate the adoption of a*

1 *mechanism for reconciling forecasted costs used in the development of capacity*
2 *prices with the actual costs that National Grid incurs”, and,*

- 3 ■ *“given the dramatic nature of the Company’s forecasted declines in both normal*
4 *winter and design winter throughput as well as the operational changes that will*
5 *result from the start-up of service from the Algonquin East to West Project, the*
6 *Commission should accelerate the timing of the Company’s next required long*
7 *range gas supply planning study and specifically require the Company to address*
8 *the implications of changes in its Normal Weather and Design Winter throughput*
9 *forecasts on (1) its near-term and long-term gas supply planning and (2) the*
10 *expected availability of capacity resources for release or use in the production of*
11 *asset management credits.” (Oliver direct at 42)*
12

13 **Q. ARE YOU SPONSORING ANY ATTACHMENTS TO YOUR TESTIMONY?**

14 **A.** Yes. The Company is providing an update to the following schedules:

- 15 ■ EDA-1 REVISED which reflects the elimination of the estimated demand charge
16 of \$1,971,000 previously included in the Total Fixed Cost calculation (identified
17 as the Distrigas FLS Call Payment);

1 ▪ EDA-2 REVISED which reflects the elimination of the inclusion of the above
2 discussed charge twice, as well as the adjustment of \$1,000,000 to increase the
3 NGPMP credit to \$3,400,000; and

4 ▪ EDA-4 REVISED which reflects updates as a result of changes made to EDA-2
5 REVISED above.

6 ***II. COST OF CAPACITY RELEASED TO MARKETERS***

7 **Q. PLEASE EXPLAIN THE COMPANY'S RATIONALE FOR USING FORWARD**
8 **PRICING, AS OPPOSED TO HISTORICAL PRICING, IN THE CALCULATION**
9 **OF THE COST OF CAPACITY RELEASED TO MARKETERS.**

10 **A.** The Company believes it is more appropriate to utilize a twelve-month forward strip, as
11 opposed to a three-year average to calculate the Company's weighted average cost of
12 capacity released to marketers because: (1) it is consistent with the calculations used to
13 set the gas cost adjustment factor for the same twelve-month period; (2) it provides a
14 more accurate price signal for market pricing in the upcoming twelve-month period and
15 (3) at this time, the two calculations yield similar results. I address each and provide the
16 rationale for the Company's position separately below.

17

18

1 1. The methodology is consistent with the calculations used to set the gas
2 cost adjustment factor for the same twelve-month period.

- 3 ▪ The Company uses the forward strip in order to calculate the gas cost
4 adjustment factor for the upcoming twelve-month period. Utilizing the
5 same pricing to calculate all costs for the same period provides
6 consistency in the pricing.

7 2. The methodology provides a more accurate price signal for market pricing
8 in the upcoming twelve-month period.

- 9 ▪ Using the forward market price as opposed to a historical three-year
10 average provides a forecast that is consistent with market expectations
11 for the period and avoids anomalies that can be inherent in historical
12 averages due to weather that deviates significantly from normal, large
13 swings in commodity pricing and hurricane activity.

14 3. The two calculations yield similar results.

- 15 ▪ As shown in the Company's response to Division Data Request 1-1 in
16 this proceeding, utilizing a twelve-month forward strip or a three-year
17 historical average resulted in very little difference. The results are
18 summarized in the table below:

19

20

Company Weighted Average Cost/dth	
As of 7/1/10	
12 Month Forward Pricing:	\$0.974
Historical 3 Year Average Pricing:	<u>\$0.990</u>
Difference:	-\$0.016

1
2 **Q. MR OLIVER IS RECOMMENDING, IN ACCORDANCE WITH DIRECT**
3 **ENERGY’S TESTIMONY FILED BY MS. REBECCA BACHELDER IN THE**
4 **COMPANY’S GCR FILING LAST YEAR (DOCKET NO. 4097), THAT IF THE**
5 **COMPANY USES FORWARD LOOKING PRICES IN ITS CALCULATION FOR**
6 **THE COST OF CAPACITY RELEASED TO MARKETERS, THEN THERE**
7 **SHOULD ALSO BE A TRUE-UP PROCESS TO ACTUAL COSTS. DO YOU**
8 **AGREE WITH THIS RECOMMENDATION?**

9 **A.** No. Whether a three-year historical price or a twelve-month future price is used to
10 calculate the cost of capacity released to marketers, it serves the same purpose, which is
11 to provide the most appropriate estimate of expected costs for the upcoming twelve-
12 month period. Both Mr. Oliver and Ms. Bachelder cite the potential of cross-
13 subsidization between transportation service customers and sales services customers.
14 There is no greater potential for cross-subsidization using forward pricing than there is
15 using historical pricing. In addition, it is the Company’s understanding that marketers
16 prefer ‘known’ costs associated with customer choice programs. The introduction of an
17 after-the-fact true-up cost may be problematic for marketers as it introduces an element

1 of price uncertainty that would be impossible for them to calculate if it were based on
2 costs actually incurred by the Company. It is likely that customers would tend to pay
3 more for their gas supply as marketers introduce a premium to cover the potential risk of
4 having to pay in the event the reconciliation results in an additional surcharge.

5
6 **III. GAS SUPPLY PORTFOLIO**

7
8 **Q. PLEASE PROVIDE A CLARIFICATION OF THE COMPANY'S PROJECTED**
9 **PEAK DAY GAS SUPPLY REQUIREMENTS?**
10

11 **A.** In its response to Division Data Request DIV 2-10 in this proceeding, the Company
12 provided a forecasted peak day requirement of 289,700 Dth, which represents the
13 requirement *for firm sales customers only*. Correspondingly, the available capacity on a
14 peak day *for firm sales customers only* is 337,603 Dth.

15
16 For the winter of 2010/11, based on the same forecast used for the instant GCR filing, the
17 Company's projected peak day requirement for all customers using utility capacity
18 *(including both firm sales and firm transportation customers)* totals 336,636 Dth.
19 Correspondingly, the available capacity for the peak day this winter season totals 366,543
20 Dth. This peak day requirements forecast remains in line with the Company's
21 previously-filed forecasts of the peak day requirements. In the Company's Long-Range

1 Gas Supply Plan filed on August 22, 2006 (Docket No. 3789), the projected peak day for
2 all customers utilizing utility capacity (including *both firm sales and firm transportation*
3 *customers*) for January 2011 totaled 349,367 Dth. In the Company's updated Long-
4 Range Gas Supply Plan filed on October 26, 2007, the projected peak day for January
5 2011 (including *both firm sales and firm transportation customers*) totaled 334,090 Dth.

6
7 **Q. DO YOU AGREE WITH MR. OLIVER'S RECOMMENDATION TO**
8 **ACCELERATE THE TIMING OF THE COMPANY'S NEXT REQUIRED LONG-**
9 **RANGE GAS SUPPLY PLAN?**

10 **A.** Yes. As Mr. Oliver points out, given the changes in both the Company's forecasted
11 throughput and the resource portfolio used to serve customers, it is an appropriate time
12 for the Company to submit a new plan. The Company would suggest that it file a plan in
13 2011 with a date agreeable to all parties. Although the Company filed an updated load
14 forecast that provides the basis for the supply forecast, and submitted all of the
15 workpapers supporting the load forecast in response to Division Data Request 1-13 in
16 this proceeding, there was not sufficient time to fully review the forecast, as Mr. Oliver
17 acknowledges. A Long-Range Gas Supply Plan filing would provide an opportunity to
18 review the forecast methodology and assumptions, as well as the gas supply portfolio.

19
20 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**

1 A. Yes, it does.

SUMMARY OF ESTIMATED GAS COSTS FOR 2010-2011 GCR Estimate

08/04/2010 NYMEX

Variable Costs	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	GCR TOTAL
Total Pipeline Supply Costs	\$16,534,812	\$22,001,510	\$23,997,111	\$21,011,154	\$22,138,394	\$11,991,550	\$6,288,102	\$4,454,977	\$4,226,018	\$3,841,741	\$4,054,023	\$7,276,807	\$147,816,198
Total Storage Product Costs	\$0	\$4,396,327	\$8,703,454	\$6,729,191	\$1,173,912	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$21,002,885
Total Storage Delivery Costs	\$0	\$150,155	\$298,646	\$234,688	\$32,156	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$715,645
Total LNG Costs	\$126,411	\$688,360	\$130,829	\$118,081	\$130,829	\$126,132	\$133,345	\$130,635	\$136,205	\$136,626	\$132,136	\$137,472	\$2,127,061
Total All Variable Gas Costs	\$16,661,223	\$27,236,353	\$33,130,039	\$28,093,115	\$23,475,291	\$12,117,683	\$6,421,447	\$4,585,611	\$4,362,223	\$3,978,367	\$4,186,159	\$7,414,279	\$171,661,789
Fixed Costs													
TOTAL PIPELINE DEMANDS	\$2,747,993	\$2,749,395	\$2,748,152	\$2,743,948	\$2,748,152	\$2,746,751	\$2,748,152	\$2,746,751	\$2,748,152	\$2,748,152	\$2,746,751	\$2,748,152	\$32,970,500
TOTAL SUPPLIER DEMANDS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL STORAGE FACILITIES	\$393,833	\$393,833	\$393,833	\$393,833	\$393,833	\$393,833	\$393,833	\$393,833	\$393,833	\$393,833	\$393,833	\$393,833	\$4,725,995
TOTAL STORAGE DELIVERY	\$396,454	\$396,454	\$396,454	\$396,454	\$396,454	\$396,454	\$396,454	\$396,454	\$396,454	\$396,454	\$396,454	\$396,454	\$4,757,444
Total All Fixed Costs	\$3,538,280	\$3,539,681	\$3,538,439	\$3,534,234	\$3,538,439	\$3,537,037	\$3,538,439	\$3,537,037	\$3,538,439	\$3,538,439	\$3,537,037	\$3,538,439	\$42,453,940
Capacity Release Credits	\$453,562	\$453,562	\$453,562	\$453,562	\$453,562	\$453,562	\$453,562	\$453,562	\$453,562	\$453,562	\$453,562	\$453,562	\$5,442,749
NGPMP Credit	\$283,333	\$283,333	\$283,333	\$283,333	\$283,333	\$283,333	\$283,333	\$283,333	\$283,333	\$283,333	\$283,333	\$283,333	\$3,400,000
Net Fixed Costs	\$2,801,384	\$2,802,786	\$2,801,543	\$2,797,338	\$2,801,543	\$2,800,141	\$2,801,543	\$2,800,141	\$2,801,543	\$2,801,543	\$2,800,141	\$2,801,543	\$33,611,190
Total All Gas Costs	\$19,462,607	\$30,039,139	\$35,931,582	\$30,890,453	\$26,276,834	\$14,917,824	\$9,222,990	\$7,385,753	\$7,163,766	\$6,779,910	\$6,986,301	\$10,215,822	\$205,272,980

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	Natural Gas Supply VS. Requirements						Units: MDT							Total/Average
	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT		
	2010	2010	2011	2011	2011	2011	2011	2011	2011	2011	2011	2011		
Forecast Demand														
RI Sales GCR	2,421,900	3,845,700	4,610,300	3,931,200	3,481,200	1,990,000	998,400	735,000	697,000	620,700	646,300	1,127,200	25,104,900	
Total Demand	2,421,900	3,845,700	4,610,300	3,931,200	3,481,200	1,990,000	998,400	735,000	697,000	620,700	646,300	1,127,200	25,104,900	
Storage Injections														
TENN_501	0	0	0	0	0	119,300	123,300	119,300	123,300	120,300	0	0	605,500	
GSS 300170	0	0	0	0	0	24,500	0	0	0	0	0	0	24,500	
GSS 300168	0	0	0	0	0	25,000	25,900	25,000	25,900	25,900	0	0	127,700	
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	223,500	231,000	223,500	0	0	0	0	678,000	
TETCO_400515	0	0	0	0	0	8,600	8,900	8,600	8,900	8,900	8,600	0	52,500	
TETCO_400221	0	0	0	0	0	180,900	186,900	180,900	186,900	186,900	161,300	0	1,083,800	
TETCO 400185	0	0	0	0	0	7,900	8,200	7,900	8,200	3,000	0	0	35,200	
GSS 300169	0	0	0	0	0	33,500	34,600	33,500	34,600	21,600	0	0	157,800	
COL FSS 9630	0	0	0	0	0	60,100	78,800	65,100	0	0	0	0	204,000	
TENN_62918	0	0	0	0	0	41,400	42,800	41,400	42,800	41,700	0	0	210,100	
Total Underground Storage	0	0	0	0	0	740,400	756,600	720,900	446,800	424,500	185,600	16,200	3,291,000	
LNG PROV	10,900	0	0	0	0	66,900	70,100	10,900	11,300	11,300	10,900	11,300	203,600	
LNG VALLEY	3,000	0	0	0	0	0	17,300	16,300	3,100	3,100	3,000	3,100	48,900	
LNG EXETER	4,900	0	0	0	0	23,100	5,600	6,100	5,100	5,100	4,900	5,100	59,900	
Total LNG Injection	18,800	0	0	0	0	90,000	93,000	33,300	19,500	19,500	18,800	19,500	312,400	
Total Injections	18,800	0	0	0	0	830,400	849,600	754,200	466,300	444,000	204,400	35,700	3,603,400	
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	359,600	348,000	359,600	359,600	348,000	359,600	4,234,000	
TENN_ZONE_0	81,183	187,459	171,829	172,645	185,730	75,538	56,939	41,146	38,438	32,141	0	0	1,043,049	
TENN_ZONE_1	167,617	387,041	354,771	356,455	383,470	155,962	117,561	84,954	79,362	66,359	0	0	2,153,551	
TENN_NIAGARA	0	3,200	3,400	1,100	21,800	0	0	0	0	0	0	0	29,500	
TENN_DRACUT	0	45,000	120,400	60,100	0	425,900	2,300	0	0	75,000	62,400	4,300	795,400	
COL_MAUMEE	689,325	883,650	883,650	798,075	883,650	662,250	482,250	180,000	250,950	0	11,700	443,025	6,168,525	
COL_BROADRUN	229,775	294,550	294,550	266,025	294,550	220,750	160,750	60,000	83,650	0	3,900	147,675	2,056,175	
TRANSCO Z2	3,915	4,013	4,013	3,621	4,013	2,740	1,468	0	4,013	0	0	0	27,796	
TRANSCO Z3	85	87	87	79	87	60	32	0	87	0	0	0	604	
TETCO_ELA	269,427	273,583	327,270	293,067	271,981	179,249	185,236	179,249	97,155	90,254	70,769	6,177	2,243,417	
TETCO_ETX	80,713	81,958	98,041	87,795	81,478	53,698	55,492	53,698	29,105	27,038	21,201	1,850	672,068	
TETCO_STX	120,301	122,157	146,128	130,857	121,442	80,036	82,709	80,036	43,380	40,299	31,599	2,758	1,001,701	
TETCO_WLA	185,163	188,019	224,916	201,410	186,919	123,189	127,303	123,189	66,770	62,027	48,636	4,245	1,541,784	
TETCO to B&W - SCT	29,958	30,421	36,390	32,587	30,243	19,931	20,597	19,931	10,803	10,036	7,869	687	249,453	
TETCO - NF - TRANSCO	13,202	13,406	16,037	14,361	13,327	8,783	9,077	8,783	4,761	4,423	3,468	303	109,931	
TETCO - DTI - TETCO	7,836	7,957	9,518	8,523	7,910	5,213	5,387	5,213	2,826	2,625	2,058	180	65,245	
M3_DELIVERED	146,600	119,900	12,900	4,800	419,300	50,100	0	0	0	0	0	0	753,600	
HUBLINE	0	72,600	271,000	184,700	200	270,200	37,700	222,800	22,200	225,000	171,400	122,000	1,599,800	
COL_EAGLE	0	10,237	2,125	290	0	0	0	0	0	0	0	0	12,652	
COL_DOWNINGTOWN	0	10,963	2,275	310	0	0	0	0	0	0	0	0	13,548	
ANE II - AECO-TENN - CONOCO P	30,000	30,900	30,900	28,000	30,900	30,000	30,900	30,000	30,900	30,900	30,000	30,900	364,300	
DISTRI FLS Winter	18,900	0	0	0	0	0	0	0	0	0	0	0	18,900	
DISTRI FLS Summer	0	0	0	0	0	90,000	93,000	33,400	19,500	19,500	18,900	19,500	293,800	
DIST FCS VAP	0	0	0	0	0	0	0	0	0	0	0	0	0	
DIST FCS LIQ	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	

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	Natural Gas Supply VS. Requirements				Units: MDT									Total/Average
	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT		
Non LNG Liquid take	2,403,100	3,126,700	3,369,800	2,969,600	3,296,600	2,711,600	1,735,300	1,437,000	1,124,000	1,025,700	813,000	1,123,700	25,136,100	
LNG Liquid take	18,900	0	0	0	0	90,000	93,000	33,400	19,500	19,500	18,900	19,500	312,700	
Total take	2,422,000	3,126,700	3,369,800	2,969,600	3,296,600	2,801,600	1,828,300	1,470,400	1,143,500	1,045,200	831,900	1,143,200	25,448,800	
Storage Withdrawals														
TENN 501	0	141,700	240,800	171,000	9,100	0	0	0	0	0	0	0	562,600	
GSS 300170	0	0	0	0	0	0	0	0	0	0	0	0	0	
GSS 300168	0	18,200	42,500	38,400	18,300	0	0	0	0	0	0	0	117,400	
GSS 300171	0	0	71,100	28,600	0	0	0	0	0	0	0	0	99,700	
GSSTE 600045	0	141,500	165,700	149,600	134,400	0	0	0	0	0	0	0	591,200	
TETCO_400515	0	2,400	24,800	19,500	0	0	0	0	0	0	0	0	46,700	
TETCO_400221	0	224,100	404,200	346,100	0	0	0	0	0	0	0	0	974,400	
TETCO 400185	0	0	17,700	13,300	0	0	0	0	0	0	0	0	31,000	
GSS 300169	0	35,700	55,400	50,000	0	0	0	0	0	0	0	0	141,100	
COL FSS 9630	0	43,400	76,200	67,100	400	0	0	0	0	0	0	0	187,100	
TENN_62918	0	9,700	122,600	60,200	2,700	0	0	0	0	0	0	0	195,200	
LNG PROV	10,900	82,000	11,300	10,200	11,300	10,900	11,300	10,900	11,300	11,300	10,900	11,300	203,600	
LNG VALLEY	3,000	15,500	3,100	2,800	3,100	3,000	3,100	3,000	3,100	3,100	3,000	3,100	48,900	
LNG EXETER	4,900	5,100	5,100	4,600	5,100	4,900	5,100	4,900	5,100	5,100	4,900	5,100	59,900	
Total Withdrawal Delivered	18,800	719,300	1,240,500	961,400	184,400	18,800	19,500	18,800	19,500	19,500	18,800	19,500	3,258,800	
Total Storage withdrawal	0	616,700	1,221,000	943,800	164,900	0	0	0	0	0	0	0	2,946,400	
Total Peaking withdrawal	18,800	102,600	19,500	17,600	19,500	18,800	19,500	18,800	19,500	19,500	18,800	19,500	312,400	
Total Supply	2,421,900	3,846,000	4,610,300	3,931,000	3,481,000	2,730,400	1,754,800	1,455,800	1,143,500	1,045,200	831,800	1,143,200	28,394,900	
Storage withdrawals at Storage Facility														
TENN 501	0	144,843	246,141	174,793	9,302	0	0	0	0	0	0	0	575,079	
GSS 300170	0	0	0	0	0	0	0	0	0	0	0	0	0	
GSS 300168	0	18,604	43,443	39,252	18,706	0	0	0	0	0	0	0	120,004	
GSS 300171	0	0	73,015	29,370	0	0	0	0	0	0	0	0	102,385	
GSSTE 600045	0	145,621	170,525	153,957	138,314	0	0	0	0	0	0	0	608,417	
TETCO_400515	0	2,546	26,310	20,687	0	0	0	0	0	0	0	0	49,544	
TETCO_400221	0	234,458	422,883	362,098	0	0	0	0	0	0	0	0	1,019,439	
TETCO 400185	0	0	18,518	13,915	0	0	0	0	0	0	0	0	32,433	
GSS 300169	0	37,250	57,806	52,171	0	0	0	0	0	0	0	0	147,227	
COL FSS 9630	0	43,994	77,243	68,018	405	0	0	0	0	0	0	0	189,660	
TENN_62918	0	9,915	125,319	61,535	2,760	0	0	0	0	0	0	0	199,530	
	0	637,231	1,261,203	975,796	169,487	0	0	0	0	0	0	0	3,043,716	

Attachment EDA-2
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October 14, 2010
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National Grid
2010 Estimated GCR
Normal Weather Scenario

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National Grid
Rhode Island - Gas

National Grid
2010 Estimated GCR
Normal Weather Scenario

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Natural Gas Supply VS. Requirements				Units: MDT									
	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
Total delivered to the City Gate Gas Supply Costs													
TENN CONNEXION													
Delivered Mmbtu	348,000	359,600	359,600	324,800	359,600	348,000	359,600	348,000	359,600	359,600	348,000	359,600	
NYMEX \$/Mmbtu Del	\$5.300	\$5.461	\$5.590	\$5.528	\$5.441	\$5.238	\$5.244	\$5.266	\$5.331	\$5.386	\$5.431	\$5.521	
Total Delivered Cost	\$1,844,348	\$1,963,928	\$2,010,291	\$1,795,396	\$1,956,562	\$1,822,981	\$1,885,767	\$1,832,454	\$1,917,113	\$1,936,961	\$1,890,003	\$1,985,281	
Tennessee Zn 0													
Delivered Mmbtu	81,183	187,459	171,829	172,645	185,730	75,538	56,939	41,146	38,438	32,141	0	0	
NYMEX \$/Mmbtu Del	\$5.461	\$5.622	\$5.751	\$5.688	\$5.602	\$5.399	\$5.405	\$5.426	\$5.492	\$5.547	\$5.592	\$5.682	
Total Delivered Cost	\$443,314	\$1,053,937	\$988,217	\$982,091	\$1,040,410	\$407,851	\$307,749	\$223,280	\$211,103	\$178,291	\$0	\$0	
TENN ZONE 1													
Delivered Mmbtu	167,617	387,041	354,771	356,455	383,470	155,962	117,561	84,954	79,362	66,359	0	0	
\$/Mmbtu Del	\$5.421	\$5.674	\$5.820	\$5.788	\$5.677	\$5.426	\$5.439	\$5.472	\$5.532	\$5.581	\$5.612	\$5.699	
Total Delivered Cost	\$908,581	\$2,196,030	\$2,064,696	\$2,063,014	\$2,176,894	\$846,292	\$639,366	\$464,869	\$439,033	\$370,338	\$0	\$0	
TENN DRACUT													
Delivered Mmbtu	0	45,000	120,400	60,100	0	425,900	2,300	0	0	75,000	62,400	4,300	
\$/Mmbtu Del	\$5.98	\$6.22	\$6.36	\$6.32	\$6.22	\$5.29	\$5.37	\$5.38	\$5.49	\$5.45	\$5.45	\$5.58	
Total Delivered Cost	\$0	\$279,894	\$765,394	\$380,060	\$0	\$2,253,270	\$12,349	\$0	\$0	\$408,588	\$340,159	\$23,999	
TETCO ELA													
Delivered Mmbtu	269,427	273,583	327,270	293,067	271,981	179,249	185,236	179,249	97,155	90,254	70,769	6,177	
\$/Mmbtu Del	\$5.3567	\$5.6891	\$5.8371	\$5.8037	\$5.6920	\$5.4291	\$5.4425	\$5.4781	\$5.5380	\$5.5871	\$5.6159	\$5.7037	
Total Delivered Cost	\$1,443,240	\$1,556,431	\$1,910,311	\$1,700,861	\$1,548,123	\$973,154	\$1,008,151	\$981,948	\$538,042	\$504,259	\$397,434	\$35,232	
TETCO ETX													
Delivered Mmbtu	80,713	81,958	98,041	87,795	81,478	53,698	55,492	53,698	29,105	27,038	21,201	1,850	
NYMEX \$/Mmbtu Del	\$5.1535	\$5.4686	\$5.6133	\$5.5931	\$5.4640	\$5.2063	\$5.2089	\$5.2238	\$5.2913	\$5.3487	\$5.3995	\$5.4913	
Total Delivered Cost	\$415,952	\$448,199	\$550,335	\$491,044	\$445,202	\$279,569	\$289,050	\$280,507	\$154,003	\$144,617	\$114,473	\$10,162	
TETCO STX													
Delivered Mmbtu	120,301	122,157	146,128	130,857	121,442	80,036	82,709	80,036	43,380	40,299	31,599	2,758	
NYMEX \$/Mmbtu Del	\$5.239	\$5.578	\$5.725	\$5.704	\$5.574	\$5.322	\$5.324	\$5.338	\$5.407	\$5.465	\$5.518	\$5.611	
Total Delivered Cost	\$630,294	\$681,397	\$836,568	\$746,367	\$676,883	\$425,988	\$440,368	\$427,218	\$234,541	\$220,242	\$174,369	\$15,476	
TETCO WLA													
Delivered Mmbtu	185,163	188,019	224,916	201,410	186,919	123,189	127,303	123,189	66,770	62,027	48,636	4,245	
\$/Mmbtu Del	\$5.3332	\$5.6741	\$5.8231	\$5.7881	\$5.6772	\$5.4050	\$5.4187	\$5.4545	\$5.5144	\$5.5637	\$5.5925	\$5.6806	
Total Delivered Cost	\$987,512	\$1,066,838	\$1,309,707	\$1,165,775	\$1,061,167	\$665,839	\$689,812	\$671,930	\$368,196	\$345,100	\$271,998	\$24,115	

National Grid
Rhode Island - Gas

National Grid
2010 Estimated GCR
Normal Weather Scenario

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Natural Gas Supply VS. Requirements				Units: MDT									
	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
TETCO -> NF -> TRANSCO													
Delivered Mmbtu	13,202	13,406	16,037	14,361	13,327	8,783	9,077	8,783	4,761	4,423	3,468	303	
Delivered \$/Mmbtu	\$6.0362	\$6.3624	\$6.5124	\$6.4785	\$6.3654	\$6.1096	\$6.1233	\$6.1594	\$6.2202	\$6.2701	\$6.2993	\$6.3884	
Delivered Cost	\$79,691	\$85,294	\$104,437	\$93,036	\$84,835	\$53,664	\$55,580	\$54,101	\$29,613	\$27,730	\$21,845	\$1,934	
M3 DELIVERED													
Delivered Mmbtu	146,600	119,900	12,900	4,800	419,300	50,100	0	0	0	0	0	0	
Delivered \$/Mmbtu	\$5.3772	\$6.0326	\$6.4929	\$6.4213	\$5.7268	\$5.3735	\$5.3891	\$5.4651	\$5.5083	\$5.5360	\$5.5202	\$5.5908	
Delivered Cost	\$788,291	\$723,304	\$83,758	\$30,822	\$2,401,262	\$269,214	\$0	\$0	\$0	\$0	\$0	\$0	
COLUMBIA MAUMEE													
Delivered Mmbtu	689,325	883,650	883,650	798,075	883,650	662,250	482,250	180,000	250,950	0	11,700	443,025	
Delivered \$/Mmbtu	\$5.2213	\$5.5220	\$5.6670	\$5.6217	\$5.5299	\$5.2853	\$5.3082	\$5.3597	\$5.4113	\$5.4488	\$5.4591	\$5.5382	
Total Delivered Cost	\$3,599,197	\$4,879,538	\$5,007,674	\$4,486,537	\$4,886,489	\$3,500,177	\$2,559,900	\$964,751	\$1,357,970	\$0	\$63,871	\$2,453,550	
COLUMBIA BROADRUN													
Delivered Mmbtu	229,775	294,550	294,550	266,025	294,550	220,750	160,750	60,000	83,650	0	3,900	147,675	
Delivered \$/Mmbtu	\$5.2964	\$5.6198	\$5.7634	\$5.7116	\$5.6227	\$5.3523	\$5.3297	\$5.3830	\$5.4345	\$5.4719	\$5.4762	\$5.5545	
Total Delivered Cost	\$1,216,981	\$1,655,323	\$1,697,608	\$1,519,440	\$1,656,176	\$1,181,523	\$856,743	\$322,980	\$454,595	\$0	\$21,357	\$820,268	
COLUMBIA EAGLE													
Delivered Mmbtu	0	10,237	2,125	290	0	0	0	0	0	0	0	0	
Delivered \$/Mmbtu	\$5.5148	\$6.1841	\$6.6541	\$6.5811	\$5.8720	\$5.5111	\$5.5270	\$5.6046	\$5.6487	\$5.6770	\$5.6608	\$5.7329	
Delivered Cost	\$0	\$63,310	\$14,138	\$1,907	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
COLUMBIA DOWNTOWN													
Delivered Mmbtu	0	10,963	2,275	310	0	0	0	0	0	0	0	0	
Delivered \$/Mmbtu	\$5.7253	\$6.4723	\$6.9702	\$6.8768	\$6.1359	\$5.6767	\$5.6551	\$5.7484	\$5.7883	\$5.8086	\$5.7727	\$5.8405	
Delivered Cost	\$0	\$70,953	\$15,859	\$2,134	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
TETCO -> DTI -> TETCO													
Delivered Mmbtu	7,836	7,957	9,518	8,523	7,910	5,213	5,387	5,213	2,826	2,625	2,058	180	
Delivered \$/Mmbtu	\$6.1571	\$6.4896	\$6.6424	\$6.6079	\$6.4926	\$6.2319	\$6.2459	\$6.2827	\$6.3446	\$6.3955	\$6.4252	\$6.5160	
Delivered Cost	\$48,245	\$51,635	\$63,222	\$56,321	\$51,357	\$32,488	\$33,648	\$32,752	\$17,927	\$16,787	\$13,224	\$1,171	
TRANSCO ZONE 2													
Delivered Mmbtu	3,915	4,013	4,013	3,621	4,013	2,740	1,468	0	4,013	0	0	0	
Delivered \$/Mmbtu	\$5.2099	\$5.4942	\$5.6400	\$5.6044	\$5.4974	\$5.3051	\$5.3213	\$5.3610	\$5.4184	\$5.4652	\$5.4894	\$5.5745	
Delivered Cost	\$20,396	\$22,047	\$22,632	\$20,295	\$22,060	\$14,538	\$7,812	\$0	\$21,743	\$0	\$0	\$0	

National Grid
Rhode Island - Gas

National Grid
2010 Estimated GCR
Normal Weather Scenario

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Natural Gas Supply VS. Requirements				Units: MDT									
	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
TRANSCO ZONE 3													
Delivered Mmbtu	85	87	87	79	87	60	32	0	87	0	0	0	
Delivered \$/Mmbtu	\$5.2670	\$5.5535	\$5.6991	\$5.6620	\$5.5569	\$5.3282	\$5.3444	\$5.3843	\$5.4413	\$5.4878	\$5.5117	\$5.5962	
Delivered Cost	\$448	\$484	\$497	\$446	\$485	\$317	\$171	\$0	\$475	\$0	\$0	\$0	
AECO TO TENNESSEE - ANE II													
Delivered Mmbtu	30,000	30,900	30,900	28,000	30,900	30,000	30,900	30,000	30,900	30,900	30,000	30,900	
Delivered \$/Mmbtu	\$6.0732	\$6.3252	\$6.4680	\$6.4333	\$6.3283	\$6.1499	\$6.1656	\$6.2045	\$6.2612	\$6.3074	\$6.3315	\$6.4155	
Total Delivered Cost	\$182,196	\$195,449	\$199,861	\$180,134	\$195,546	\$184,496	\$190,517	\$186,134	\$193,470	\$194,897	\$189,945	\$198,239	
NIAGARA TO TENNESSEE													
Delivered Mmbtu	0	3,200	3,400	1,100	21,800	0	0	0	0	0	0	0	
Delivered \$/Mmbtu	\$5.6467	\$5.8111	\$5.8230	\$5.8182	\$5.7342	\$5.4792	\$5.5038	\$5.5545	\$5.6033	\$5.6382	\$5.6449	\$5.7257	
Total Delivered Cost	\$0	\$18,596	\$19,798	\$6,400	\$125,006	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Tetco to B&W - SCT													
Delivered Mmbtu	29,958	30,421	36,390	32,587	30,243	19,931	20,597	19,931	10,803	10,036	7,869	687	
Delivered \$/Mmbtu	\$6.0533	\$6.3940	\$6.5426	\$6.5090	\$6.3969	\$6.1259	\$6.1394	\$6.1751	\$6.2351	\$6.2844	\$6.3132	\$6.4012	
Total Delivered Cost	\$181,349	\$194,509	\$238,085	\$212,109	\$193,460	\$122,097	\$126,453	\$123,077	\$67,358	\$63,068	\$49,679	\$4,397	
DISTRIGAS FCS													
Delivered Mmbtu	0	0	0	0	0	0	0	0	0	0	0	0	
Delivered \$/Mmbtu													
Total Delivered Cost													
HUBLINE													
Total Delivered Vol	0	72,600	271,000	184,700	200	270,200	37,700	222,800	22,200	225,000	171,400	122,000	
Delivered \$/Mmbtu	\$5.9105	\$6.1844	\$6.3222	\$6.2888	\$6.1874	\$5.2259	\$5.3042	\$5.3177	\$5.4215	\$5.3831	\$5.3865	\$5.5165	
Total Delivered Cost	\$0	\$448,985	\$1,713,323	\$1,161,536	\$1,237	\$1,412,033	\$199,970	\$1,184,773	\$120,358	\$1,211,198	\$923,251	\$673,016	
	NOV 2010	DEC 2010	JAN 2011	FEB 2011	MAR 2011	APR 2011	MAY 2011	JUN 2011	JUL 2011	AUG 2011	SEP 2011	OCT 2011	
Financial Hedges as of 7/31/2010													
Quantity	3,086,000	3,240,000	3,080,000	2,970,000	2,800,000	2,030,000	1,527,000	991,000	802,000	790,000	642,000	923,000	22,881,000
Average Price	\$6.122	\$6.490	\$6.707	\$6.570	\$6.443	\$5.992	\$6.206	\$6.234	\$6.196	\$6.312	\$6.373	\$6.466	
08/04/2010 NYMEX	\$4.909	\$5.149	\$5.285	\$5.252	\$5.152	\$4.982	\$4.997	\$5.034	\$5.088	\$5.132	\$5.155	\$5.235	
Impact of Financial Hedges	\$3,744,776	\$4,345,430	\$4,380,700	\$3,915,430	\$3,615,240	\$2,050,190	\$1,845,816	\$1,189,041	\$888,704	\$932,270	\$781,690	\$1,136,410	\$28,825,697.00
Total Pipeline Costs (Incl Inj)	\$16,534,812	\$22,001,510	\$23,997,111	\$21,011,154	\$22,138,394	\$16,495,682	\$11,149,222	\$8,939,815	\$7,014,241	\$6,554,347	\$5,253,300	\$7,383,249	\$168,472,836
Total Delivered Pipeline Vol	2,403,100	3,126,700	3,369,800	2,969,600	3,296,600	2,711,600	1,735,300	1,437,000	1,124,000	1,025,700	813,000	1,123,700	25,136,100
WACOG (Cost/Volume)	\$6.881	\$7.037	\$7.121	\$7.075	\$6.716	\$6.083	\$6.425	\$6.221	\$6.240	\$6.390	\$6.462	\$6.570	\$6.702
Injections	0	0	0	0	0	740,400	756,600	720,900	446,800	424,500	185,600	16,200	
Cost of Injections	\$0	\$0	\$0	\$0	\$0	\$4,504,131	\$4,861,120	\$4,484,838	\$2,788,223	\$2,712,606	\$1,199,277	\$106,442	\$20,656,638
Total GCR Cost Including Financial Hedges, Excluding Injections													
Total Pipeline Costs	\$16,534,812	\$22,001,510	\$23,997,111	\$21,011,154	\$22,138,394	\$11,991,550	\$6,288,102	\$4,454,977	\$4,226,018	\$3,841,741	\$4,054,023	\$7,276,807	\$147,816,198
Total Pipeline Purchase Volumes	2,403,100	3,126,700	3,369,800	2,969,600	3,296,600	1,971,200	978,700	716,100	677,200	601,200	627,400	1,107,500	21,845,100

2010-2011 Gas Supply Fixed Costs
UNIT PRICES

[illegible]

BILLING UNITS[illegible]

[illegible]

		NOV	DEC	JAN-11	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
TOTAL COST													
PIPELINE FIXED COST DOLLARS													
ALGONQUIN AFT-E/AFT-1 DEMAND	\$	\$519,709	\$519,709	\$519,709	\$519,709	\$519,709	\$519,709	\$519,709	\$519,709	\$519,709	\$519,709	\$519,709	\$519,709
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	\$	\$10,553	\$10,553	\$10,553	\$10,553	\$10,553	\$10,553	\$10,553	\$10,553	\$10,553	\$10,553	\$10,553	\$10,553
TEXAS EASTERN STX CDS DEMAND Z3	\$	\$94,208	\$94,208	\$94,208	\$94,208	\$94,208	\$94,208	\$94,208	\$94,208	\$94,208	\$94,208	\$94,208	\$94,208
TEXAS EASTERN WLA CDS DEMAND Z3	\$	\$44,398	\$44,398	\$44,398	\$44,398	\$44,398	\$44,398	\$44,398	\$44,398	\$44,398	\$44,398	\$44,398	\$44,398
TEXAS EASTERN ELA CDS DEMAND Z3	\$	\$56,425	\$56,425	\$56,425	\$56,425	\$56,425	\$56,425	\$56,425	\$56,425	\$56,425	\$56,425	\$56,425	\$56,425
TEXAS EASTERN ETX CDS DEMAND Z3	\$	\$17,501	\$17,501	\$17,501	\$17,501	\$17,501	\$17,501	\$17,501	\$17,501	\$17,501	\$17,501	\$17,501	\$17,501
TETCO M1 TO M3 DEMAND Z3	\$	\$516,344	\$516,344	\$516,344	\$516,344	\$516,344	\$516,344	\$516,344	\$516,344	\$516,344	\$516,344	\$516,344	\$516,344
TETCO 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
TETCO SCT STX DEMAND	\$	\$1,554	\$1,554	\$1,554	\$1,554	\$1,554	\$1,554	\$1,554	\$1,554	\$1,554	\$1,554	\$1,554	\$1,554
TETCO SCT WLA DEMAND	\$	\$732	\$732	\$732	\$732	\$732	\$732	\$732	\$732	\$732	\$732	\$732	\$732
TETCO SCT ELA DEMAND	\$	\$1,124	\$1,124	\$1,124	\$1,124	\$1,124	\$1,124	\$1,124	\$1,124	\$1,124	\$1,124	\$1,124	\$1,124
TETCO SCT ETX DEMAND	\$	\$288	\$288	\$288	\$288	\$288	\$288	\$288	\$288	\$288	\$288	\$288	\$288
TETCO SCT DEMAND 1-3	\$	\$9,439	\$9,439	\$9,439	\$9,439	\$9,439	\$9,439	\$9,439	\$9,439	\$9,439	\$9,439	\$9,439	\$9,439
TETCO SCT STX DEMAND Z2	\$	\$1,092	\$1,092	\$1,092	\$1,092	\$1,092	\$1,092	\$1,092	\$1,092	\$1,092	\$1,092	\$1,092	\$1,092
TETCO SCT WLA DEMAND Z2	\$	\$514	\$514	\$514	\$514	\$514	\$514	\$514	\$514	\$514	\$514	\$514	\$514
TETCO SCT ELA DEMAND Z2	\$	\$789	\$789	\$789	\$789	\$789	\$789	\$789	\$789	\$789	\$789	\$789	\$789
TETCO SCT ETX DEMAND Z2	\$	\$202	\$202	\$202	\$202	\$202	\$202	\$202	\$202	\$202	\$202	\$202	\$202
TETCO SCT DEMAND 1-2	\$	\$5,034	\$5,034	\$5,034	\$5,034	\$5,034	\$5,034	\$5,034	\$5,034	\$5,034	\$5,034	\$5,034	\$5,034
TENNESSEE FT-A DEMAND ZONE 0 TO 6	\$	\$54,789	\$54,789	\$54,789	\$54,789	\$54,789	\$54,789	\$54,789	\$54,789	\$54,789	\$54,789	\$54,789	\$54,789
TENNESSEE FT-A DEMAND ZONE 1 TO 6	\$	\$101,751	\$101,751	\$101,751	\$101,751	\$101,751	\$101,751	\$101,751	\$101,751	\$101,751	\$101,751	\$101,751	\$101,751
TENNESSEE FT-A DEMAND ZONE 0 TO 6	\$	\$93,934	\$93,934	\$93,934	\$93,934	\$93,934	\$93,934	\$93,934	\$93,934	\$93,934	\$93,934	\$93,934	\$93,934
TENNESSEE FT-A DEMAND ZONE 1 TO 6	\$	\$207,663	\$207,663	\$207,663	\$207,663	\$207,663	\$207,663	\$207,663	\$207,663	\$207,663	\$207,663	\$207,663	\$207,663
TENNESSEE FT-A DEMAND ZONE 0 TO 6 (New)	\$	\$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 DRACUT	\$	\$47,400	\$47,400	\$47,400	\$47,400	\$47,400	\$47,400	\$47,400	\$47,400	\$47,400	\$47,400	\$47,400	\$47,400
TENNESSEE FT-A DEMAND ZONE 5 TO 6	\$	\$5,260	\$5,260	\$5,260	\$5,260	\$5,260	\$5,260	\$5,260	\$5,260	\$5,260	\$5,260	\$5,260	\$5,260
NETNE	\$	\$10,610	\$10,610	\$10,									

National Grid
Rhode Island - Gas

STORAGE DELIVERY FIXED COSTS														
ALGONQUIN FOR TETCO SS-1	\$	\$84,498	\$84,498	\$84,498	\$84,498	\$84,498	\$84,498	\$84,498	\$84,498	\$84,498	\$84,498	\$84,498	\$84,498	
ALGONQUIN DELIVERY FOR FSS-1	\$	\$5,642	\$5,642	\$5,642	\$5,642	\$5,642	\$5,642	\$5,642	\$5,642	\$5,642	\$5,642	\$5,642	\$5,642	
TETCO DELIVERY FOR FSS-1	\$	\$5,059	\$5,059	\$5,059	\$5,059	\$5,059	\$5,059	\$5,059	\$5,059	\$5,059	\$5,059	\$5,059	\$5,059	
ALGONQUIN SCT FOR SS-1	\$	\$1,590	\$1,590	\$1,590	\$1,590	\$1,590	\$1,590	\$1,590	\$1,590	\$1,590	\$1,590	\$1,590	\$1,590	
ALGONQUIN DELIVERY FOR GSS, GSS-TE, ALGONQUIN SCT DELIVERY FOR GSS-TE	\$	\$70,165	\$70,165	\$70,165	\$70,165	\$70,165	\$70,165	\$70,165	\$70,165	\$70,165	\$70,165	\$70,165	\$70,165	
ALGONQUIN DELIVERY FOR GSS CONV	\$	\$447	\$447	\$447	\$447	\$447	\$447	\$447	\$447	\$447	\$447	\$447	\$447	
TENNESSEE DELIVERY FOR GSS	\$	\$20,168	\$20,168	\$20,168	\$20,168	\$20,168	\$20,168	\$20,168	\$20,168	\$20,168	\$20,168	\$20,168	\$20,168	
TENNESSEE DELIVERY FOR FSMA	\$	\$39,610	\$39,610	\$39,610	\$39,610	\$39,610	\$39,610	\$39,610	\$39,610	\$39,610	\$39,610	\$39,610	\$39,610	
TETCO DELIVERY FOR GSS	\$	\$24,214	\$24,214	\$24,214	\$24,214	\$24,214	\$24,214	\$24,214	\$24,214	\$24,214	\$24,214	\$24,214	\$24,214	
TETCO DELIVERY FOR GSS-TE	\$	\$34,117	\$34,117	\$34,117	\$34,117	\$34,117	\$34,117	\$34,117	\$34,117	\$34,117	\$34,117	\$34,117	\$34,117	
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 CONV	\$	\$34,396	\$34,396	\$34,396	\$34,396	\$34,396	\$34,396	\$34,396	\$34,396	\$34,396	\$34,396	\$34,396	\$34,396	
DOMINION DELIVERY FOR GSS	\$	\$10,674	\$10,674	\$10,674	\$10,674	\$10,674	\$10,674	\$10,674	\$10,674	\$10,674	\$10,674	\$10,674	\$10,674	
DOMINION DELIVERY FOR GSS CONV	\$	\$23,139	\$23,139	\$23,139	\$23,139	\$23,139	\$23,139	\$23,139	\$23,139	\$23,139	\$23,139	\$23,139	\$23,139	
ALGONQUIN DELIVERY FOR FSS	\$	\$8,957	\$8,957	\$8,957	\$8,957	\$8,957	\$8,957	\$8,957	\$8,957	\$8,957	\$8,957	\$8,957	\$8,957	
COLUMBIA DELIVERY FOR FSS	\$	\$15,212	\$15,212	\$15,212	\$15,212	\$15,212	\$15,212	\$15,212	\$15,212	\$15,212	\$15,212	\$15,212	\$15,212	
DISTRIGAS FCS - LIQUID PORTION	\$	\$15,028	\$15,028	\$15,028	\$15,028	\$15,028	\$15,028	\$15,028	\$15,028	\$15,028	\$15,028	\$15,028	\$15,028	
DISTRIGAS FLS CALL PAYMENT Winter	\$	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
DISTRIGAS FLS CALL PAYMENT Summer	\$	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
TOTAL STORAGE DELIVERY DEMAND CHARGES		\$396,454	\$396,454	\$396,454	\$396,454	\$396,454	\$396,454	\$396,454	\$396,454	\$396,454	\$396,454	\$396,454	\$4,757,444	
TOTAL ALL DEMAND COSTS	\$	\$3,538,280	\$3,539,681	\$3,538,439	\$3,534,234	\$3,538,439	\$3,537,037	\$3,538,439	\$3,537,037	\$3,538,439	\$3,538,439	\$3,537,037	\$3,538,439	\$42,453,940
		NOV	DEC	JAN-11	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total
Marketer Demand Charge Credits														
Capacity Release Volumes as of August 1, 2010														
Tennessee	Dth	7,723	7,723	7,723	7,723	7,723	7,723	7,723	7,723	7,723	7,723	7,723	7,723	
Algonquin	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	
Tetco STX/AGT	Dth	4,027	4,027	4,027	4,027	4,027	4,027	4,027	4,027	4,027	4,027	4,027	4,027	
Tetco WLA/AGT	Dth	7,824	7,824	7,824	7,824	7,824	7,824	7,824	7,824	7,824	7,824	7,824	7,824	
Tetco ELA/AGT	Dth	5,476	5,476	5,476	5,476	5,476	5,476	5,476	5,476	5,476	5,476	5,476	5,476	
Columbia/Downington	Dth	764	764	764	764	764	764	764	764	764	764	764	764	
Total		28,528	28,528	28,528	28,528	28,528	28,528	28,528	28,528	28,528	28,528	28,528	28,528	
System Weighted Average cost per MMBtu		\$15.8989	\$15.8989	\$15.8989	\$15.8989	\$15.8989	\$15.8989	\$15.8989	\$15.8989	\$15.8989	\$15.8989	\$15.8989	\$15.8989	
Total Demand Charge Credit		\$453,562	\$453,562	\$453,562	\$453,562	\$453,562	\$453,562	\$453,562	\$453,562	\$453,562	\$453,562	\$453,562	\$453,562	\$5,442,749
Demand Costs Net of Releases to Marketers	\$	\$3,084,717	\$3,086,119	\$3,084,876	\$3,080,672	\$3,084,876	\$3,083,475	\$3,084,876	\$3,083,475	\$3,084,876	\$3,084,876	\$3,083,475	\$3,084,876	\$37,011,190
TOTAL PIPELINE DEMANDS	\$	\$2,747,993	\$2,749,395	\$2,748,152	\$2,743,948	\$2,748,152	\$2,746,751	\$2,748,152	\$2,746,751	\$2,748,152	\$2,748,152	\$2,746,751	\$2,748,152	\$32,970,500
TOTAL SUPPLIER DEMANDS	\$	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL STORAGE FACILITIES	\$	\$393,833	\$393,833	\$393,833	\$393,833	\$393,833	\$393,833	\$393,833	\$393,833	\$393,833	\$393,833	\$393,833	\$393,833	\$4,725,995
TOTAL STORAGE DELIVERY DEMANDS	\$	\$396,454	\$396,454	\$396,454	\$396,454	\$396,454	\$396,454	\$396,454	\$396,454	\$396,454	\$396,454	\$396,454	\$396,454	\$4,757,444
Total All Demands	\$	\$3,538,280	\$3,539,681	\$3,538,439	\$3,534,234	\$3,538,439	\$3,537,037	\$3,538,439	\$3,537,037	\$3,538,439	\$3,538,439	\$3,537,037	\$3,538,439	\$42,453,940
Marketer Release Credits	\$	\$453,562	\$453,562	\$453,562	\$453,562	\$453,562	\$453,562	\$453,562	\$453,562	\$453,562	\$453,562	\$453,562	\$453,562	\$5,442,749
NGPMP credit		\$283,333	\$283,333	\$283,333	\$283,333	\$283,333	\$283,333	\$283,333	\$283,333	\$283,333	\$283,333	\$283,333	\$283,333	\$3,400,000
Demand Net of Releases	\$	\$2,801,384	\$2,802,786	\$2,801,543	\$2,797,338	\$2,801,543	\$2,800,141	\$2,801,543	\$2,800,141	\$2,801,543	\$2,801,543	\$2,800,141	\$2,801,543	\$33,611,190

(1) Includes Hedge Amortization
3,043,718 Withdrawal

National Grid
Rhode Island - Gas

NATIONAL GRID - RI SERVICE AREA NOVEMBER 2010 - OCTOBER 2011												
LNG Estimate for 2010 - 2011	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
08/04/2010 NYMEX	\$4.909	\$5.149	\$5.285	\$5.252	\$5.152	\$4.982	\$4.997	\$5.034	\$5.088	\$5.132	\$5.155	\$5.235
Trucking												
Delivered Cost - FLS contract												
Basis FLS contract TGP Zone 6												
Delivered Cost - FLS contract												
Basis New England Spot LNG	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000
Delivered Cost - FCS contract	\$6.009	\$6.249	\$6.385	\$6.352	\$6.252	\$6.082	\$6.097	\$6.134	\$6.188	\$6.232	\$6.255	\$6.335
Combined LNG Inv	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Beginning Inv Vol	906,000	906,000	803,400	783,900	766,300	746,800	818,000	891,500	906,000	906,000	906,000	906,000
Vol Injected - FLS winter	18,800	0	0	0	0	0	0	0	0	0	0	0
Vol Injected - FLS summer	0	0	0	0	0	90,000	93,000	33,300	19,500	19,500	18,800	19,500
Vol Injected - Spot LNG	0	0	0	0	0	0	0	0	0	0	0	0
Vol Withdrawn	18,800	102,600	19,500	17,600	19,500	18,800	19,500	18,800	19,500	19,500	18,800	19,500
Beginning Inv \$ 8/2/10 = \$6.724	\$6,091,944	\$6,078,502	\$5,390,142	\$5,259,313	\$5,141,232	\$5,010,403	\$5,593,651	\$6,194,727	\$6,328,294	\$6,347,855	\$6,367,853	\$6,387,151
\$ Injected	\$112,969	\$0	\$0	\$0	\$0	\$709,380	\$734,421	\$264,202	\$155,766	\$156,624	\$151,434	\$158,633
\$ Withdrawn	\$126,411	\$688,360	\$130,829	\$118,081	\$130,829	\$126,132	\$133,345	\$130,635	\$136,205	\$136,626	\$132,136	\$137,472
Ending Vol	906,000	803,400	783,900	766,300	746,800	818,000	891,500	906,000	906,000	906,000	906,000	906,000
Ending \$	\$6,078,502	\$5,390,142	\$5,259,313	\$5,141,232	\$5,010,403	\$5,593,651	\$6,194,727	\$6,328,294	\$6,347,855	\$6,367,853	\$6,387,151	\$6,408,312
Avg \$/Dth												
Newport												
Newport LNG Vol Vapor	0	0	0	0	0	0	0	0	0	0	0	0
Avg \$/Dth												
Total cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total All LNG Costs	\$126,411	\$688,360	\$130,829	\$118,081	\$130,829	\$126,132	\$133,345	\$130,635	\$136,205	\$136,626	\$132,136	\$137,472

PRELIMINARY

12 Month Forward Pricing

**National Grid
Summary of Transportation Capacity Release
Pipeline Path Availability and Pricing
November 2010 - October 2011**

PRELIMINARY

Path to City Gate	As of 8/1/10 Existing Releases	Total Available	Remaining Available	Cost /Dth	New Credit/ Surcharge	Old Credit / Surcharge
Company Weighted Average				\$0.968		
Tennessee Zone 1	7,723	8,000	277	\$1.005	(\$0.037)	(\$0.036)
Algonquin @ Lambertville, NJ	2,714	2,714	0	\$0.782	\$0.185	\$0.093
Texas Eastern - South Texas Algonquin @ Lambertville, NJ	4,027	4,044	17	\$1.345	(\$0.378)	(\$0.056)
Texas Eastern - West La Algonquin @ Lambertville, NJ	7,824	8,000	176	\$1.212	(\$0.244)	(\$0.243)
Texas Eastern - East La Algonquin @ Lambertville, NJ	5,476	5,500	24	\$1.138	(\$0.170)	(\$0.164)
Columbia (Maumee/Downington) at 5:1 ratio**	764	1,000	236	\$0.687	\$0.281	\$0.159
Totals	28,528	29,258	730			

** 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.

Gas Year 2010 - 2011

TEXAS EASTERN SOUTH TEXAS SUPPLY PATH COST MATRIX
CITY GATE DELIVERED MDQ = 4,044

UNIT PRICING

[illegible]**BILLING UNITS**

FIXED														
TETCO STX SUPPLY ZONE DEMAND	\$/Dth	4,078	4,099	4,099	4,099	4,099	4,078	4,078	4,078	4,078	4,078	4,078	4,078	
TECCO WLA SUPPLY ZONE DEMAND	\$/Dth	4,078	4,099	4,099	4,099	4,099	4,078	4,078	4,078	4,078	4,078	4,078	4,078	
TETCO ELA SUPPLY ZONE DEMAND	\$/Dth	4,078	4,099	4,099	4,099	4,099	4,078	4,078	4,078	4,078	4,078	4,078	4,078	
TETCO STX M1 TO M3 DEMAND	\$/Dth	4,078	4,099	4,099	4,099	4,099	4,078	4,078	4,078	4,078	4,078	4,078	4,078	
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														
TETCO USAGE STX TO M3	Dth	132,211	139,022	139,022	125,568	139,022	132,211	136,618	132,211	136,618	136,618	132,211	136,618	1,617,946
ALGONQUIN USAGE	Dth	122,348	127,080	127,080	114,782	127,080	122,348	126,426	122,348	126,426	126,426	122,348	126,426	1,491,115
PURCHASE VOLUMES	Dth	132,211	139,022	139,022	125,568	139,022	132,211	136,618	132,211	136,618	136,618	132,211	136,618	1,617,946
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

TETCO STX M1 TO M3 FUEL	%	7.46%	8.59%	8.59%	8.59%	8.59%	7.46%	7.46%	7.46%	7.46%	7.46%	7.46%	7.46%
ALGONQUIN AFT-E FUEL	%	0.84%	1.35%	1.35%	1.35%	1.35%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%

[illegible]

VARIABLE	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
TETCO USAGE STX TO M3	\$	\$11,145	\$11,720	\$11,720	\$10,585	\$11,720	\$11,145	\$11,517	\$11,145	\$11,517	\$11,517	\$11,145	\$11,517	\$136,393
ALGONQUIN USAGE	\$	\$1,603	\$1,665	\$1,665	\$1,504	\$1,665	\$1,603	\$1,656	\$1,603	\$1,656	\$1,656	\$1,603	\$1,656	\$19,534
PURCHASE COST	\$	\$623,730	\$686,933	\$705,340	\$634,683	\$686,391	\$633,818	\$655,177	\$635,682	\$665,492	\$672,842	\$657,563	\$691,149	\$7,948,799

TOTAL FIXED	\$	\$118,975	\$119,465	\$119,465	\$119,465	\$119,465	\$118,975	\$118,975	\$118,975	\$118,975	\$118,975	\$118,975	\$118,975	\$1,429,655
TOTAL VARIABLE	\$	\$636,478	\$700,317	\$718,724	\$646,772	\$699,775	\$646,566	\$668,350	\$648,430	\$678,665	\$686,015	\$670,311	\$704,322	\$8,104,725

DELIVERED COST AT NYMEX	\$	\$595,560	\$645,499	\$662,549	\$594,694	\$645,875	\$604,416	\$626,444	\$610,725	\$637,852	\$643,368	\$625,405	\$656,281	\$7,548,668
NET NON-GAS VARIABLE COST	\$	\$40,918	\$54,818	\$56,175	\$52,077	\$53,900	\$42,150	\$41,906	\$37,705	\$40,813	\$42,647	\$44,906	\$48,041	\$556,057
AVERAGE NON-GAS VARIABLE COST	\$/Dth	\$0.337	\$0.437	\$0.448	\$0.460	\$0.430	\$0.347	\$0.334	\$0.311	\$0.326	\$0.340	\$0.370	\$0.383	\$0.377

AVERAGE FIXED COST	\$/Dth	
AVERAGE COST AT 100% LOAD FACTOR	\$/Dth	
TOTAL PATH COST	\$/Dth	

Gas Year 2010 - 2011

TEXAS EASTERN WEST LOUISIANA SUPPLY PATH TO ALGONQUIN CITY GATE
CITY GATE DELIVERED MDQ = 8,000

UNIT PRICING

[illegible]**BILLING UNITS**

FIXED														
TETCO WLA SUPPLY ZONE DEMAND	Dth	8,068	8,109	8,109	8,109	8,109	8,068	8,068	8,068	8,068	8,068	8,068	8,068	
TETCO ELA SUPPLY ZONE DEMAND	Dth	8,068	8,109	8,109	8,109	8,109	8,068	8,068	8,068	8,068	8,068	8,068	8,068	
TETCO WLA M1 TO M3 DEMAND	Dth	8,068	8,109	8,109	8,109	8,109	8,068	8,068	8,068	8,068	8,068	8,068	8,068	
ALGONQUIN AFT-E DEMAND	Dth	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	96,000
VARIABLE														
TETCO USAGE WLA TO M3	Dth	259,636	272,336	272,336	245,981	272,336	259,636	268,291	259,636	268,291	268,291	259,636	268,291	3,174,700
ALGONQUIN USAGE	Dth	242,033	251,394	251,394	227,065	251,394	242,033	250,101	242,033	250,101	250,101	242,033	250,101	2,949,783
PURCHASE VOLUMES	Dth	259,636	272,336	272,336	245,981	272,336	259,636	268,291	259,636	268,291	268,291	259,636	268,291	3,174,700
DELIVERED VOLUMES	Dth	240,000	248,000	248,000	224,000	248,000	240,000	248,000	240,000	248,000	248,000	240,000	248,000	2,920,000

FUEL USE %

TETCO WLA M1 TO M3 FUEL	%	6.78%	7.69%	7.69%	7.69%	7.69%	6.78%	6.78%	6.78%	6.78%	6.78%	6.78%
ALGONQUIN AFT-E FUEL	%	0.84%	1.35%	1.35%	1.35%	1.35%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%

FIXED

[illegible]

VARIABLE

TETCO USAGE W/LA TO M3	\$	\$20,901	\$21,923	\$21,923	\$19,801	\$21,923	\$20,901	\$21,597	\$20,901	\$21,597	\$21,597	\$20,901	\$21,597	\$255,563
ALGONQUIN USAGE	\$	\$3,171	\$3,293	\$3,293	\$2,975	\$3,293	\$3,171	\$3,276	\$3,171	\$3,276	\$3,276	\$3,171	\$3,276	\$38,642
PURCHASE COST	\$	\$1,257,341	\$1,383,687	\$1,420,643	\$1,275,315	\$1,384,450	\$1,274,581	\$1,320,448	\$1,286,447	\$1,344,191	\$1,356,426	\$1,319,576	\$1,385,401	\$16,008,502

TOTAL FIXED	\$	\$180,459	\$181,145	\$181,145	\$181,145	\$181,145	\$180,459	\$180,459	\$180,459	\$180,459	\$180,459	\$180,459	\$180,459	\$2,168,251
TOTAL VARIABLE	\$	\$1,281,413	\$1,408,904	\$1,445,860	\$1,298,091	\$1,409,666	\$1,298,653	\$1,345,321	\$1,310,518	\$1,369,065	\$1,381,299	\$1,343,648	\$1,410,275	\$16,302,712

DELIVERED VOLUMES AT NYMEX	\$	\$1,178,160	\$1,276,952	\$1,310,680	\$1,176,448	\$1,277,696	\$1,195,680	\$1,239,256	\$1,208,160	\$1,261,824	\$1,272,736	\$1,237,200	\$1,298,280	\$14,933,072
NET NON-GAS VARIABLE COST	\$	\$103,253	\$131,952	\$135,180	\$121,643	\$131,970	\$102,973	\$106,065	\$102,358	\$107,241	\$108,563	\$106,448	\$111,995	\$1,369,640
AVERAGE NON-GAS VARIABLE COST	\$/Dth	\$0.43	\$0.53	\$0.55	\$0.54	\$0.53	\$0.43	\$0.43	\$0.43	\$0.43	\$0.44	\$0.44	\$0.45	\$0.47

AVERAGE FIXED COST	\$/Dth	
AVERAGE COST AT 100% LOAD FACTOR	\$/Dth	
TOTAL PATH COST	\$/Dth	

Gas Year 2010 - 2011

TEXAS EASTERN EAST LOUISIANA SUPPLY PATH TO ALGONQUIN CITY GATE
CITY GATE DELIVERED MDQ = 5,500

UNIT PRICING

		NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	TOTAL
FIXED														
TETCO ELA SUPPLY ZONE DEMAND	\$/Dth	\$2.38	\$2.38	\$2.38	\$2.38	\$2.38	\$2.38	\$2.38	\$2.38	\$2.38	\$2.38	\$2.38	\$2.38	
TETCO ELA M1 TO M3 DEMAND	\$/Dth	\$11.24	\$11.24	\$11.24	\$11.24	\$11.24	\$11.24	\$11.24	\$11.24	\$11.24	\$11.24	\$11.24	\$11.24	
ALGONQUIN AFT-E DEMAND	\$/Dth	\$5.98	\$5.98	\$5.98	\$5.98	\$5.98	\$5.98	\$5.98	\$5.98	\$5.98	\$5.98	\$5.98	\$5.98	
VARIABLE														
TETCO USAGE ELA TO M3	\$/Dth	\$0.079	\$0.079	\$0.079	\$0.079	\$0.079	\$0.079	\$0.079	\$0.079	\$0.079	\$0.079	\$0.079	\$0.079	
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	
08/04/2010 NYMEX	\$/Dth	\$4.909	\$5.149	\$5.285	\$5.252	\$5.152	\$4.982	\$4.997	\$5.034	\$5.088	\$5.132	\$5.155	\$5.235	
SUPPLY AREA BASIS	\$/Dth													
NET COST AFTER BASIS	\$/Dth													

BILLING UNITS

FIXED														
TETCO ELA SUPPLY ZONE DEMAND	Dth	5,547	5,575	5,575	5,575	5,575	5,547	5,547	5,547	5,547	5,547	5,547	5,547	
TETCO ELA M1 TO M3 DEMAND	Dth	5,547	5,575	5,575	5,575	5,575	5,547	5,547	5,547	5,547	5,547	5,547	5,547	
ALGONQUIN AFT-E DEMAND	Dth	5,500	5,500	5,500	5,500	5,500	5,500	5,500	5,500	5,500	5,500	5,500	5,500	66,000
VARIABLE														
TETCO USAGE ELA TO M3	Dth	177,908	186,424	186,424	168,383	186,424	177,908	183,839	177,908	183,839	183,839	177,908	183,839	2,174,642
ALGONQUIN USAGE	Dth	166,398	172,833	172,833	156,107	172,833	166,398	171,944	166,398	171,944	171,944	166,398	171,944	2,027,975
PURCHASE VOLUMES	Dth	177,908	186,424	186,424	168,383	186,424	177,908	183,839	177,908	183,839	183,839	177,908	183,839	2,174,642
DELIVERED VOLUMES	Dth	165,000	170,500	170,500	154,000	170,500	165,000	170,500	165,000	170,500	170,500	165,000	170,500	2,007,500

FUEL USE %

TETCO ELA M1 TO M3 FUEL	%	6.47%	7.29%	7.29%	7.29%	7.29%	6.47%	6.47%	6.47%	6.47%	6.47%	6.47%	6.47%	
ALGONQUIN AFT-E FUEL	%	0.84%	1.35%	1.35%	1.35%	1.35%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	
FIXED														
TETCO ELA SUPPLY ZONE	\$	\$13,173	\$13,241	\$13,241	\$13,241	\$13,241	\$13,173	\$13,173	\$13,173	\$13,173	\$13,173	\$13,173	\$13,173	\$158,350
TETCO ELA M1 TO M3	\$	\$62,349	\$62,672	\$62,672	\$62,672	\$62,672	\$62,349	\$62,349	\$62,349	\$62,349	\$62,349	\$62,349	\$62,349	\$749,480
ALGONQUIN AFT-E	\$	\$32,874	\$32,874	\$32,874	\$32,874	\$32,874	\$32,874	\$32,874	\$32,874	\$32,874	\$32,874	\$32,874	\$32,874	\$394,489
VARIABLE														
TETCO USAGE ELA TO M3	\$	\$14,037	\$14,709	\$14,709	\$13,285	\$14,709	\$14,037	\$14,505	\$14,037	\$14,505	\$14,505	\$14,037	\$14,505	\$171,579
ALGONQUIN USAGE	\$	\$2,180	\$2,264	\$2,264	\$2,045	\$2,264	\$2,180	\$2,252	\$2,180	\$2,252	\$2,252	\$2,180	\$2,252	\$26,566
PURCHASE COST	\$	\$868,567	\$954,116	\$979,357	\$879,428	\$954,619	\$880,504	\$912,152	\$888,599	\$928,422	\$936,805	\$911,336	\$956,678	\$11,050,584
TOTAL FIXED	\$	\$108,396	\$108,787	\$108,787	\$108,787	\$108,787	\$108,396	\$108,396	\$108,396	\$108,396	\$108,396	\$108,396	\$108,396	\$1,302,319
TOTAL VARIABLE	\$	\$884,783	\$971,089	\$996,330	\$894,759	\$971,592	\$896,721	\$928,910	\$904,816	\$945,180	\$953,563	\$927,553	\$973,436	\$11,248,730
DELIVERED VOLUMES AT NYMEX	\$	\$809,985	\$877,905	\$901,093	\$808,808	\$878,416	\$822,030	\$851,989	\$830,610	\$867,504	\$875,006	\$850,575	\$892,568	\$10,266,487
NET NON-GAS VARIABLE COST	\$	\$74,798	\$93,184	\$95,238	\$85,951	\$93,176	\$74,691	\$76,921	\$74,206	\$77,676	\$78,557	\$76,978	\$80,868	\$982,243
AVERAGE NON-GAS VARIABLE COST	\$/Dth	\$0.453	\$0.547	\$0.559	\$0.558	\$0.546	\$0.453	\$0.451	\$0.450	\$0.456	\$0.461	\$0.467	\$0.474	\$0.489

AVERAGE FIXED COST \$/Dth
AVERAGE COST AT 100% LOAD FACTOR \$/Dth
TOTAL PATH COST \$/Dth



Gas Year 2010 - 2011
MAUMEE/DOWNINGTON COLUMBIA PATH TO CITY GATE
CITY GATE DELIVERED MDQ = 1,000

UNIT PRICING

[illegible]**BILLING UNITS**

		DEMAND SUMMARY														
FIXED																
COLUMBIA FTS DEMAND	Dth	1,021	1,021	1,021	1,021	1,021	1,021	1,021	1,021	1,021	1,021	1,021	1,021	1,021		
ALGONQUIN DEMAND	Dth	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	12,000	
VARIABLE																
COLUMBIA USAGE	Dth	30,254	31,424	31,424	28,383	31,424	30,254	31,263	30,254	31,263	31,263	30,254	31,263			
ALGONQUIN USAGE	Dth	30,000	31,000	31,000	28,000	31,000	30,000	31,000	30,000	31,000	31,000	30,000	31,000			
PURCHASE VOLUMES MAUMEE	Dth	25,212	26,187	26,187	23,653	26,187	25,212	26,052	25,212	26,052	26,052	25,212	26,052			
PURCHASE VOLUMES DOWNINGTON	Dth	5,042	5,237	5,237	4,731	5,237	5,042	5,210	5,042	5,210	5,210	5,042	5,210			
DELIVERED VOLUMES MAUMEE	Dth	25,000	25,833	25,833	23,333	25,833	25,000	25,833	25,000	25,833	25,833	25,000	25,833			304,167
DELIVERED VOLUMES DOWNINGTON	Dth	5,000	5,167	5,167	4,667	5,167	5,000	5,167	5,000	5,167	5,167	5,000	5,167			60,833

FUEL USE %

COLUMBIA FUEL	%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%
ALGONQUIN AFT-E FUEL	%	0.84%	1.35%	1.35%	1.35%	1.35%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%

FIXED

[illegible]

VARIABLE

COLUMBIA USAGE	\$	\$741	\$770	\$770	\$695	\$770	\$741	\$766	\$741	\$766	\$766	\$741	\$766	\$9,034
ALGONQUIN USAGE	\$	\$393	\$406	\$406	\$367	\$406	\$393	\$406	\$393	\$406	\$406	\$393	\$406	\$4,782
PURCHASE COST MAUMEE	\$	\$126,916	\$138,751	\$142,420	\$127,601	\$138,950	\$128,482	\$133,345	\$130,305	\$135,953	\$136,902	\$132,737	\$139,163	\$1,611,525
PURCHASE COST DOWNINGTON	\$	\$26,820	\$31,101	\$33,479	\$29,905	\$29,521	\$26,802	\$27,776	\$27,260	\$28,392	\$28,535	\$27,535	\$28,818	\$345,943

TOTAL FIXED	\$	\$12,180	\$12,180	\$12,180	\$12,180	\$12,180	\$12,180	\$12,180	\$12,180	\$12,180	\$12,180	\$12,180	\$12,180	\$146,160
TOTAL VARIABLE	\$	\$154,871	\$171,028	\$177,075	\$158,568	\$169,647	\$156,418	\$162,293	\$158,699	\$165,517	\$166,609	\$161,407	\$169,153	\$1,971,284

DELIVERED VOLUMES AT NYMEX	\$	\$147,270	\$159,619	\$163,835	\$147,056	\$159,712	\$149,460	\$154,907	\$151,020	\$157,728	\$159,092	\$154,650	\$162,285	\$1,866,634
NET NON-GAS VARIABLE COST	\$	\$7,601	\$11,409	\$13,240	\$11,512	\$9,935	\$6,958	\$7,386	\$7,679	\$7,789	\$7,517	\$6,757	\$6,868	\$104,650
AVERAGE NON-GAS VARIABLE COST	\$/Dth	\$0.253	\$0.368	\$0.427	\$0.411	\$0.320	\$0.232	\$0.238	\$0.256	\$0.251	\$0.242	\$0.225	\$0.222	\$0.287

AVERAGE FIXED COST	\$/Dth	
AVERAGE COST AT 100% LOAD FACTOR	\$/Dth	
TOTAL PATH COST	\$/Dth	

[illegible]

Gas Year 2010 - 2011
ALGONQUIN LAMBERTVILLE TO CITY GATE
CITY GATE DELIVERED MDQ = 2,714

[illegible]

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
	2010		2011									
h	\$5.977	\$5.977	\$5.977	\$5.977	\$5.977	\$5.977	\$5.977	\$5.977	\$5.977	\$5.977	\$5.977	\$5.977
h	\$10.755	\$10.755	\$10.755	\$10.755	\$10.755	\$10.755	\$10.755	\$10.755	\$10.755	\$10.755	\$10.755	\$10.755
h	\$2.391	\$2.391	\$2.391	\$2.391	\$2.391	\$2.391	\$2.391	\$2.391	\$2.391	\$2.391	\$2.391	\$2.391
h	\$6.805	\$6.805	\$6.805	\$6.805	\$6.805	\$6.805	\$6.805	\$6.805	\$6.805	\$6.805	\$6.805	\$6.805
h	\$2.825	\$2.825	\$2.825	\$2.825	\$2.825	\$2.825	\$2.825	\$2.825	\$2.825	\$2.825	\$2.825	\$2.825
h	\$2.375	\$2.375	\$2.375	\$2.375	\$2.375	\$2.375	\$2.375	\$2.375	\$2.375	\$2.375	\$2.375	\$2.375
h	\$2.189	\$2.189	\$2.189	\$2.189	\$2.189	\$2.189	\$2.189	\$2.189	\$2.189	\$2.189	\$2.189	\$2.189
h	\$5.350	\$5.350	\$5.350	\$5.350	\$5.350	\$5.350	\$5.350	\$5.350	\$5.350	\$5.350	\$5.350	\$5.350
h	\$11.241	\$11.241	\$11.241	\$11.241	\$11.241	\$11.241	\$11.241	\$11.241	\$11.241	\$11.241	\$11.241	\$11.241
h	\$2.722	\$2.722	\$2.722	\$2.722	\$2.722	\$2.722	\$2.722	\$2.722	\$2.722	\$2.722	\$2.722	\$2.722
h	\$1.130	\$1.130	\$1.130	\$1.130	\$1.130	\$1.130	\$1.130	\$1.130	\$1.130	\$1.130	\$1.130	\$1.130
h	\$0.950	\$0.950	\$0.950	\$0.950	\$0.950	\$0.950	\$0.950	\$0.950	\$0.950	\$0.950	\$0.950	\$0.950
h	\$0.876	\$0.876	\$0.876	\$0.876	\$0.876	\$0.876	\$0.876	\$0.876	\$0.876	\$0.876	\$0.876	\$0.876
h	\$4.497	\$4.497	\$4.497	\$4.497	\$4.497	\$4.497	\$4.497	\$4.497	\$4.497	\$4.497	\$4.497	\$4.497
h	\$2.722	\$2.722	\$2.722	\$2.722	\$2.722	\$2.722	\$2.722	\$2.722	\$2.722	\$2.722	\$2.722	\$2.722
h	\$1.130	\$1.130	\$1.130	\$1.130	\$1.130	\$1.130	\$1.130	\$1.130	\$1.130	\$1.130	\$1.130	\$1.130
h	\$0.950	\$0.950	\$0.950	\$0.950	\$0.950	\$0.950	\$0.950	\$0.950	\$0.950	\$0.950	\$0.950	\$0.950
h	\$0.876	\$0.876	\$0.876	\$0.876	\$0.876	\$0.876	\$0.876	\$0.876	\$0.876	\$0.876	\$0.876	\$0.876
h	\$3.415	\$3.415	\$3.415	\$3.415	\$3.415	\$3.415	\$3.415	\$3.415	\$3.415	\$3.415	\$3.415	\$3.415
h	\$15.654	\$15.654	\$15.654	\$15.654	\$15.654	\$15.654	\$15.654	\$15.654	\$15.654	\$15.654	\$15.654	\$15.654
h	\$15.654	\$15.654	\$15.654	\$15.654	\$15.654	\$15.654	\$15.654	\$15.654	\$15.654	\$15.654	\$15.654	\$15.654
h	\$15.599	\$15.599	\$15.599	\$15.599	\$15.599	\$15.599	\$15.599	\$15.599	\$15.599	\$15.599	\$15.599	\$15.599
h	\$15.599	\$15.599	\$15.599	\$15.599	\$15.599	\$15.599	\$15.599	\$15.599	\$15.599	\$15.599	\$15.599	\$15.599
h	\$3.160	\$3.160	\$3.160	\$3.160	\$3.160	\$3.160	\$3.160	\$3.160	\$3.160	\$3.160	\$3.160	\$3.160
h	\$4.930	\$4.930	\$4.930	\$4.930	\$4.930	\$4.930	\$4.930	\$4.930	\$4.930	\$4.930	\$4.930	\$4.930
h	\$22.737	\$22.737	\$22.737	\$22.737	\$22.737	\$22.737	\$22.737	\$22.737	\$22.737	\$22.737	\$22.737	\$22.737
h	\$10.610	\$10.610	\$10.610	\$10.610	\$10.610	\$10.610	\$10.610	\$10.610	\$10.610	\$10.610	\$10.610	\$10.610
h	\$6.597	\$6.597	\$6.597	\$6.597	\$6.597	\$6.597	\$6.597	\$6.597	\$6.597	\$6.597	\$6.597	\$6.597
h	\$4.515	\$4.666	\$4.666	\$4.214	\$4.666	\$4.515	\$4.666	\$4.515	\$4.666	\$4.666	\$4.515	\$4.666
h	\$30.150	\$31.155	\$31.155	\$28.140	\$31.155	\$30.150	\$31.1					

UNIT PRICES

[illegible]

August 1, 2010 Update		UNIT PRICES												
		NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	
PIPELINE FIXED COST DOLLARS														
ALGONQUIN AFT-E/AFT-1 DEMAND	\$	\$519,709	\$519,709	\$519,709	\$519,709	\$519,709	\$519,709	\$519,709	\$519,709	\$519,709	\$519,709	\$519,709	\$519,709	
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	\$	\$10,553	\$10,553	\$10,553	\$10,553	\$10,553	\$10,553	\$10,553	\$10,553	\$10,553	\$10,553	\$10,553	\$10,553	
TEXAS EASTERN STX CDS DEMAND M3	\$	\$94,208	\$94,208	\$94,208	\$94,208	\$94,208	\$94,208	\$94,208	\$94,208	\$94,208	\$94,208	\$94,208	\$94,208	
TEXAS EASTERN WLA CDS DEMAND M3	\$	\$44,398	\$44,398	\$44,398	\$44,398	\$44,398	\$44,398	\$44,398	\$44,398	\$44,398	\$44,398	\$44,398	\$44,398	
TEXAS EASTERN ELA CDS DEMAND M3	\$	\$56,425	\$56,425	\$56,425	\$56,425	\$56,425	\$56,425	\$56,425	\$56,425	\$56,425	\$56,425	\$56,425	\$56,425	
TEXAS EASTERN ETX CDS DEMAND M3	\$	\$17,501	\$17,501	\$17,501	\$17,501	\$17,501	\$17,501	\$17,501	\$17,501	\$17,501	\$17,501	\$17,501	\$17,501	
TETCO 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	
TETCO M1 TO M3 DEMAND M3	\$	\$516,344	\$516,344	\$516,344	\$516,344	\$516,344	\$516,344	\$516,344	\$516,344	\$516,344	\$516,344	\$516,344	\$516,344	
TETCO SCT STX DEMAND	\$	\$1,554	\$1,554	\$1,554	\$1,554	\$1,554	\$1,554	\$1,554	\$1,554	\$1,554	\$1,554	\$1,554	\$1,554	
TETCO SCT WLA DEMAND	\$	\$732	\$732	\$732	\$732	\$732	\$732	\$732	\$732	\$732	\$732	\$732	\$732	
TETCO SCT ELA DEMAND	\$	\$1,124	\$1,124	\$1,124	\$1,124	\$1,124	\$1,124	\$1,124	\$1,124	\$1,124	\$1,124	\$1,124	\$1,124	
TETCO SCT ETX DEMAND	\$	\$288	\$288	\$288	\$288	\$288	\$288	\$288	\$288	\$288	\$288	\$288	\$288	
TETCO SCT DEMAND 1-3	\$	\$9,439	\$9,439	\$9,439	\$9,439	\$9,439	\$9,439	\$9,439	\$9,439	\$9,439	\$9,439	\$9,439	\$9,439	
TETCO SCT STX DEMAND M2	\$	\$1,092	\$1,092	\$1,092	\$1,092	\$1,092	\$1,092	\$1,092	\$1,092	\$1,092	\$1,092	\$1,092	\$1,092	
TETCO SCT WLA DEMAND M2	\$	\$514	\$514	\$514	\$514	\$514	\$514	\$514	\$514	\$514	\$514	\$514	\$514	
TETCO SCT ELA DEMAND M2	\$	\$789	\$789	\$789	\$789	\$789	\$789	\$789	\$789	\$789	\$789	\$789	\$789	
TETCO SCT ETX DEMAND M2	\$	\$202	\$202	\$202	\$202	\$202	\$202	\$202	\$202	\$202	\$202	\$202	\$202	
TETCO SCT DEMAND 1-2	\$	\$5,034	\$5,034	\$5,034	\$5,034	\$5,034	\$5,034	\$5,034	\$5,034	\$5,034	\$5,034	\$5,034	\$5,034	
TENNESSEE FT-A DEMAND ZONE 0 TO 6	\$	\$54,789	\$54,789	\$54,789	\$54,789	\$54,789	\$54,789	\$54,789	\$54,789	\$54,789	\$54,789	\$54,789	\$54,789	
TENNESSEE FT-A DEMAND ZONE 1 TO 6	\$	\$101,751	\$101,751	\$101,751	\$101,751	\$101,751	\$101,751	\$101,751	\$101,751	\$101,751	\$101,751	\$101,751	\$101,751	
TENNESSEE FT-A DEMAND ZONE 0 TO 6	\$	\$93,934	\$93,934	\$93,934	\$93,934	\$93,934	\$93,934	\$93,934	\$93,934	\$93,934	\$93,934	\$93,934	\$93,934	
TENNESSEE FT-A DEMAND ZONE 1 TO 6	\$	\$207,663	\$207,663	\$207,663	\$207,663	\$207,663	\$207,663	\$207,663	\$207,663	\$207,663	\$207,663	\$207,663	\$207,663	
TENNESSEE DRACUT	\$	\$47,400	\$47,400	\$47,400	\$47,400	\$47,400	\$47,400	\$47,400	\$47,400	\$47,400	\$47,400	\$47,400	\$47,400	
TENNESSEE FT-A DEMAND ZONE 5 TO 6	\$	\$5,260	\$5,260	\$5,260	\$5,260	\$5,260	\$5,260	\$5,260	\$5,260	\$5,260	\$5,260	\$5,260	\$5,260	
TENNESSEE CONNEXION	\$	\$263,743	\$263,743	\$263,743	\$263,743	\$263,743	\$263,743	\$263,743	\$263,743	\$263,743	\$263,743	\$263,743	\$263,743	
NETNE	\$	\$10,610	\$10,610	\$10,610	\$10,610	\$10,610	\$10,610	\$10,610	\$10,610	\$10,610	\$10,610	\$10,610	\$10,610	
IROQUOIS	\$	\$6,676	\$6,676	\$6,676	\$6,676	\$6,676	\$6,676	\$6,676	\$6,676	\$6,676	\$6,676	\$6,676	\$6,676	
NOVA	\$	\$4,858	\$5,020	\$5,020	\$4,534	\$5,020	\$4,858	\$5,020	\$4,858	\$5,020	\$5,020	\$4,858	\$5,020	
TRANSCANADA	\$	\$30,813	\$31,840	\$31,840	\$28,759	\$31,840	\$30,813	\$31,840	\$30,813	\$31,840	\$31,840	\$30,813	\$31,840	
DOMINION FTNN DEMAND	\$	\$2,334	\$2,334	\$2,334	\$2,334	\$2,334	\$2,334	\$2,334	\$2,334	\$2,334	\$2,334	\$2,334	\$2,334	
TRANSCO DEMAND ZONE 2 TO 6	\$	\$1,911	\$1,975	\$1,975	\$1,784	\$1,975	\$1,911	\$1,975	\$1,911	\$1,975	\$1,975	\$1,911	\$1,975	
TRANSCO DEMAND ZONE 3 TO 6.	\$	\$39	\$40	\$40	\$37	\$40	\$39	\$40	\$39	\$40	\$40	\$39	\$40	
TRANSCO DEMAND ZONE 6	\$	\$4,424	\$4,571	\$4,571	\$4,129	\$4,571	\$4,424	\$4,571	\$4,424	\$4,571	\$4,571	\$4,424	\$4,571	
NATIONAL FUEL DEMAND	\$	\$4,187	\$4,187	\$4,187	\$4,187	\$4,187	\$4,187	\$4,187	\$4,187	\$4,187	\$4,187	\$4,187	\$4,187	
COLUMBIA FTS DEMAND	\$	\$288,289	\$288,289	\$288,289	\$288,289	\$288,289	\$288,289	\$288,289	\$288,289	\$288,289	\$288,289	\$288,289	\$288,289	
HUBLINE	\$	\$46,233	\$46,233	\$46,233	\$46,233	\$46,233	\$46,233	\$46,233	\$46,233	\$46,233	\$46,233	\$46,233	\$46,233	
HUBLINE	\$	\$3,498	\$3,498	\$3,498	\$3,498	\$3,498	\$3,498	\$3,498	\$3,498	\$3,498	\$3,498	\$3,498	\$3,498	
HUBLINE	\$	\$24,472	\$24,472	\$24,472	\$24,472	\$24,472	\$24,472	\$24,472	\$24,472	\$24,472	\$24,472	\$24,472	\$24,472	
EAST TO WEST	\$	\$84,461	\$84,461	\$84,461	\$84,461	\$84,461	\$84,461	\$84,461	\$84,461	\$84,461	\$84,461	\$84,461	\$84,461	
WESTERLY LATERAL (Yankee)	\$	\$58,879	\$58,879	\$57,637	\$57,637	\$57,637	\$57,637	\$57,637	\$57,637	\$57,637	\$57,637	\$57,637	\$57,637	
	\$	\$2,747,993	\$2,749,395	\$2,748,152	\$2,743,948	\$2,748,152	\$2,746,751	\$2,748,152	\$2,746,751	\$2,748,152	\$2,748,152	\$2,746,751	\$2,748,152	\$32,970,500
SUPPLIER FIXED COST DOLLARS														
DISTRIGAS FCS	\$	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL PIPELINE FIXED DEMAND CHARGES		\$2,747,993	\$2,749,395	\$2,748,152	\$2,743,948	\$2,748,152	\$2,746,751	\$2,748,152	\$2,746,751	\$2,748,152	\$2,748,152	\$2,746,751	\$2,748,152	\$32,970,500
TOTAL DEMAND UNITS DTH		5,342,280	5,554,053	5,554,053	5,016,564	5,554,053	5,342,280	5,486,659	4,854,210	5,016,017	5,016,017	4,854,210	5,486,659	63,077,055
100% LOAD FACTOR UNIT VALUE \$/DTH														
Average rate per unit per month														
AVERAGE SYSTEM VARIABLE UNIT VALUE \$/DTH														
TOTAL AVERAGE SYSTEM UNIT VALUE \$/DTH														

Natural Gas Supply VS. Requirements				Units: MDT										
	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average	
	2010	2010	2011	2011	2011	2011	2011	2011	2011	2011	2011	2011		
Forecast Demand														
RI Sales GCR	2,421,900	3,845,700	4,610,300	3,931,200	3,481,200	1,990,000	998,400	735,000	697,000	620,700	646,300	1,127,200	25,104,900	
Total Demand	2,421,900	3,845,700	4,610,300	3,931,200	3,481,200	1,990,000	998,400	735,000	697,000	620,700	646,300	1,127,200	25,104,900	
Storage Injections														
TENN_501	0	0	0	0	0	119,300	123,300	119,300	123,300	120,300	0	0	605,500	
GSS 300170	0	0	0	0	0	24,500	0	0	0	0	0	0	24,500	
GSS 300168	0	0	0	0	0	25,000	25,900	25,000	25,900	25,900	0	0	127,700	
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	223,500	231,000	223,500	0	0	0	0	678,000	
TETCO_400515	0	0	0	0	0	8,600	8,900	8,600	8,900	8,900	8,600	0	52,500	
TETCO_400221	0	0	0	0	0	180,900	186,900	180,900	186,900	186,900	161,300	0	1,083,800	
TETCO 400185	0	0	0	0	0	7,900	8,200	7,900	8,200	3,000	0	0	35,200	
GSS 300169	0	0	0	0	0	33,500	34,600	33,500	34,600	21,600	0	0	157,800	
COL FSS 9630	0	0	0	0	0	60,100	78,800	65,100	0	0	0	0	204,000	
TENN_62918	0	0	0	0	0	41,400	42,800	41,400	42,800	41,700	0	0	210,100	
Total Underground Storage	0	0	0	0	0	740,400	756,600	720,900	446,800	424,500	185,600	16,200	3,291,000	
LNG PROV	10,900	0	0	0	0	66,900	70,100	10,900	11,300	11,300	10,900	11,300	203,600	
LNG VALLEY	3,000	0	0	0	0	0	17,300	16,300	3,100	3,100	3,000	3,100	48,900	
LNG EXETER	4,900	0	0	0	0	23,100	5,600	6,100	5,100	5,100	4,900	5,100	59,000	
Total LNG Injection	18,800	0	0	0	0	90,000	93,000	33,300	19,500	19,500	18,800	19,500	312,400	
Total Injections	18,800	0	0	0	0	830,400	849,600	754,200	466,300	444,000	204,400	35,700	3,603,400	
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	359,600	348,000	359,600	359,600	348,000	359,600	4,234,000	
TENN_ZONE_0	81,183	187,459	171,829	172,645	185,730	75,538	56,939	41,146	38,438	32,141	0	0	1,043,049	
TENN_ZONE_1	167,617	387,041	354,771	356,455	383,470	155,962	117,561	84,954	79,362	66,359	0	0	2,153,551	
TENN_NIAGARA	0	3,200	3,400	1,100	21,800	0	0	0	0	0	0	0	29,500	
TENN_DRACUT	0	45,000	120,400	60,100	0	425,900	2,300	0	0	75,000	62,400	4,300	795,400	
COL_MAUMEE	689,325	883,650	883,650	798,075	883,650	662,250	482,250	180,000	250,950	0	11,700	443,025	6,168,525	
COL_BROADRUN	229,775	294,550	294,550	266,025	294,550	220,750	160,750	60,000	83,650	0	3,900	147,675	2,056,175	
TRANSCO Z2	3,915	4,013	4,013	3,621	4,013	2,740	1,468	0	4,013	0	0	0	27,796	
TRANSCO Z3	85	87	87	79	87	60	32	0	87	0	0	0	604	
TETCO_ELA	269,427	273,583	327,270	293,067	271,981	179,249	185,236	179,249	97,155	90,254	70,769	6,177	2,243,417	
TETCO_ETX	80,713	81,958	98,041	87,795	81,478	53,698	55,492	53,698	29,105	27,038	21,201	1,850	672,068	
TETCO_STX	120,301	122,157	146,128	130,857	121,442	80,036	82,709	80,036	43,380	40,299	31,599	2,758	1,001,701	
TETCO_WLA	185,163	188,019	224,916	201,410	186,919	123,189	127,303	123,189	66,770	62,027	48,636	4,245	1,541,784	
TETCO to B&W - SCT	29,958	30,421	36,390	32,587	30,243	19,931	20,597	19,931	10,803	10,036	7,869	687	249,453	
TETCO - NF - TRANSCO	13,202	13,406	16,037	14,361	13,327	8,783	9,077	8,783	4,761	4,423	3,468	303	109,931	
TETCO - DTI - TETCO	7,836	7,957	9,518	8,523	7,910	5,213	5,387	5,213	2,826	2,625	2,058	180	65,245	
M3_DELIVERED	146,600	119,900	12,900	4,800	419,300	50,100	0	0	0	0	0	0	753,600	
HUBLINE	0	72,600	271,000	184,700	200	270,200	37,700	222,800	22,200	225,000	171,400	122,000	1,599,800	
COL_EAGLE	0	10,237	2,125	290	0	0	0	0	0	0	0	0	12,652	
COL_DOWNINGTOWN	0	10,963	2,275	310	0	0	0	0	0	0	0	0	13,548	
ANE II - AECO-TENN - CONOCO P	30,000	30,900	30,900	28,000	30,900	30,000	30,900	30,000	30,900	30,900	30,000	30,900	364,300	
DISTRI FLS Winter	18,900	0	0	0	0	0	0	0	0	0	0	0	18,900	
DISTRI FLS Summer	0	0	0	0	0	90,000	93,000	33,400	19,500	19,500	18,900	19,500	293,800	
DIST FCS VAP	0	0	0	0	0	0	0	0	0	0	0	0	0	
DIST FCS LIQ	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	

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	Natural Gas Supply VS. Requirements				Units: MDT									Total/Average
	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT		
Non LNG Liquid take	2,403,100	3,126,700	3,369,800	2,969,600	3,296,600	2,711,600	1,735,300	1,437,000	1,124,000	1,025,700	813,000	1,123,700	25,136,100	
LNG Liquid take	18,900	0	0	0	0	90,000	93,000	33,400	19,500	19,500	18,900	19,500	312,700	
Total take	2,422,000	3,126,700	3,369,800	2,969,600	3,296,600	2,801,600	1,828,300	1,470,400	1,143,500	1,045,200	831,900	1,143,200	25,448,800	
Storage Withdrawals														
TENN 501	0	141,700	240,800	171,000	9,100	0	0	0	0	0	0	0	562,600	
GSS 300170	0	0	0	0	0	0	0	0	0	0	0	0	0	
GSS 300168	0	18,200	42,500	38,400	18,300	0	0	0	0	0	0	0	117,400	
GSS 300171	0	0	71,100	28,600	0	0	0	0	0	0	0	0	99,700	
GSSTE 600045	0	141,500	165,700	149,600	134,400	0	0	0	0	0	0	0	591,200	
TETCO_400515	0	2,400	24,800	19,500	0	0	0	0	0	0	0	0	46,700	
TETCO_400221	0	224,100	404,200	346,100	0	0	0	0	0	0	0	0	974,400	
TETCO 400185	0	0	17,700	13,300	0	0	0	0	0	0	0	0	31,000	
GSS 300169	0	35,700	55,400	50,000	0	0	0	0	0	0	0	0	141,100	
COL FSS 9630	0	43,400	76,200	67,100	400	0	0	0	0	0	0	0	187,100	
TENN_62918	0	9,700	122,600	60,200	2,700	0	0	0	0	0	0	0	195,200	
LNG PROV	10,900	82,000	11,300	10,200	11,300	10,900	11,300	10,900	11,300	11,300	10,900	11,300	203,600	
LNG VALLEY	3,000	15,500	3,100	2,800	3,100	3,000	3,100	3,000	3,100	3,100	3,000	3,100	48,900	
LNG EXETER	4,900	5,100	5,100	4,600	5,100	4,900	5,100	4,900	5,100	5,100	4,900	5,100	59,900	
Total Withdrawal Delivered	18,800	719,300	1,240,500	961,400	184,400	18,800	19,500	18,800	19,500	19,500	18,800	19,500	3,258,800	
Total Storage withdrawal	0	616,700	1,221,000	943,800	164,900	0	0	0	0	0	0	0	2,946,400	
Total Peaking withdrawal	18,800	102,600	19,500	17,600	19,500	18,800	19,500	18,800	19,500	19,500	18,800	19,500	312,400	
Total Supply	2,421,900	3,846,000	4,610,300	3,931,000	3,481,000	2,730,400	1,754,800	1,455,800	1,143,500	1,045,200	831,800	1,143,200	28,394,900	
Storage withdrawals at Storage Facility														
TENN 501	0	144,843	246,141	174,793	9,302	0	0	0	0	0	0	0	575,079	
GSS 300170	0	0	0	0	0	0	0	0	0	0	0	0	0	
GSS 300168	0	18,604	43,443	39,252	18,706	0	0	0	0	0	0	0	120,004	
GSS 300171	0	0	73,015	29,370	0	0	0	0	0	0	0	0	102,385	
GSSTE 600045	0	145,621	170,525	153,957	138,314	0	0	0	0	0	0	0	608,417	
TETCO_400515	0	2,546	26,310	20,687	0	0	0	0	0	0	0	0	49,544	
TETCO_400221	0	234,458	422,883	362,098	0	0	0	0	0	0	0	0	1,019,439	
TETCO 400185	0	0	18,518	13,915	0	0	0	0	0	0	0	0	32,433	
GSS 300169	0	37,250	57,806	52,171	0	0	0	0	0	0	0	0	147,227	
COL FSS 9630	0	43,994	77,243	68,018	405	0	0	0	0	0	0	0	189,660	
TENN_62918	0	9,915	125,319	61,535	2,760	0	0	0	0	0	0	0	199,530	
	0	637,231	1,261,203	975,796	169,487	0	0	0	0	0	0	0	3,043,718	

National Grid
2010 Estimated GCR
Normal Weather Scenario

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	Natural Gas Supply VS. Requirements						Units: MDT							
	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average	
08/04/2010 NYMEX	\$4.909	\$5.149	\$5.285	\$5.252	\$5.152	\$4.982	\$4.997	\$5.034	\$5.088	\$5.132	\$5.155	\$5.235		
TENNESSEE CONNEXION														
Basis														
usage to Zn 6	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019		
fuel to Zn 6	8.71%	8.71%	8.71%	8.71%	8.71%	8.71%	8.71%	8.71%	8.71%	8.71%	8.71%	8.71%		
Total Delivered														
TENNESSEE ZN 0														
Basis														
usage	\$0.1627	\$0.1627	\$0.1627	\$0.1627	\$0.1627	\$0.1627	\$0.1627	\$0.1627	\$0.1627	\$0.1627	\$0.1627	\$0.1627		
fuel	8.71%	8.71%	8.71%	8.71%	8.71%	8.71%	8.71%	8.71%	8.71%	8.71%	8.71%	8.71%		
Total Delivered														
TENNESSEE ZN 1														
Basis														
usage to Zn 6	\$0.1522	\$0.1522	\$0.1522	\$0.1522	\$0.1522	\$0.1522	\$0.1522	\$0.1522	\$0.1522	\$0.1522	\$0.1522	\$0.1522		
fuel to Zn 6	7.82%	7.82%	7.82%	7.82%	7.82%	7.82%	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%		
Total Delivered														
TENNESSEE DRACUT														
Basis														
usage	\$0.0661	\$0.0661	\$0.0661	\$0.0661	\$0.0661	\$0.0661	\$0.0661	\$0.0661	\$0.0661	\$0.0661	\$0.0661	\$0.0661		
fuel	0.89%	0.89%	0.89%	0.89%	0.89%	0.85%	0.85%	0.85%	0.85%	0.85%	0.85%	0.85%		
Total Delivered														
TETCO ELA														
Basis														
Usage to M3	\$0.0789	\$0.0789	\$0.0789	\$0.0789	\$0.0789	\$0.0789	\$0.0789	\$0.0789	\$0.0789	\$0.0789	\$0.0789	\$0.0789		
Usage on AGT	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131		
Fuel to M3	6.47%	7.29%	7.29%	7.29%	7.29%	6.47%	6.47%	6.47%	6.47%	6.47%	6.47%	6.47%		
Fuel on AGT	0.84%	1.35%	1.35%	1.35%	1.35%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%		
Total Delivered														
TETCO ETX														
Basis														
Usage to M3	\$0.0789	\$0.0789	\$0.0789	\$0.0789	\$0.0789	\$0.0789	\$0.0789	\$0.0789	\$0.0789	\$0.0789	\$0.0789	\$0.0789		
Usage on AGT	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131		
Fuel to M3	6.47%	7.29%	7.29%	7.29%	7.29%	6.47%	6.47%	6.47%	6.47%	6.47%	6.47%	6.47%		
Fuel on AGT	0.84%	1.35%	1.35%	1.35%	1.35%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%		
Total Delivered														
TETCO STX														
Basis														
Usage to M3	\$0.0843	\$0.0843	\$0.0843	\$0.0843	\$0.0843	\$0.0843	\$0.0843	\$0.0843	\$0.0843	\$0.0843	\$0.0843	\$0.0843		
Usage on AGT	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131		
Fuel to M3	7.46%	8.59%	8.59%	8.59%	8.59%	7.46%	7.46%	7.46%	7.46%	7.46%	7.46%	7.46%		
Fuel on AGT	0.84%	1.35%	1.35%	1.35%	1.35%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%		
Total Delivered														

National Grid
2010 Estimated GCR
Normal Weather Scenario

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Natural Gas Supply VS. Requirements												Units: MDT		
	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average	
TETCO WLA														
Basis														
Usage to M3	\$0.0805	\$0.0805	\$0.0805	\$0.0805	\$0.0805	\$0.0805	\$0.0805	\$0.0805	\$0.0805	\$0.0805	\$0.0805	\$0.0805	\$0.0805	
Usage on AGT	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	
Fuel to M3	6.78%	7.69%	7.69%	7.69%	7.69%	6.78%	6.78%	6.78%	6.78%	6.78%	6.78%	6.78%	6.78%	
Fuel on AGT	0.84%	1.35%	1.35%	1.35%	1.35%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	
Total Delivered														
TETCO -> NF -> TRANSCO														
Basis														
Usage to M2	\$0.4324	\$0.4324	\$0.4324	\$0.4324	\$0.4324	\$0.4324	\$0.4324	\$0.4324	\$0.4324	\$0.4324	\$0.4324	\$0.4324	\$0.4324	
Usage on NF	\$0.0088	\$0.0088	\$0.0088	\$0.0088	\$0.0088	\$0.0088	\$0.0088	\$0.0088	\$0.0088	\$0.0088	\$0.0088	\$0.0088	\$0.0088	
Usage on Transco	\$0.0079	\$0.0079	\$0.0079	\$0.0079	\$0.0079	\$0.0079	\$0.0079	\$0.0079	\$0.0079	\$0.0079	\$0.0079	\$0.0079	\$0.0079	
Usage on AGT	\$0.2292	\$0.2292	\$0.2292	\$0.2292	\$0.2292	\$0.2292	\$0.2292	\$0.2292	\$0.2292	\$0.2292	\$0.2292	\$0.2292	\$0.2292	
Fuel to M2	5.72%	6.33%	6.33%	6.33%	6.33%	5.72%	5.72%	5.72%	5.72%	5.72%	5.72%	5.72%	5.72%	
Fuel on NF	1.40%	1.40%	1.40%	1.40%	1.40%	1.40%	1.40%	1.40%	1.40%	1.40%	1.40%	1.40%	1.40%	
Fuel on Transco	0.89%	0.89%	0.89%	0.89%	0.89%	0.89%	0.89%	0.89%	0.89%	0.89%	0.89%	0.89%	0.89%	
Fuel on AGT	0.84%	1.35%	1.35%	1.35%	1.35%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	
Delivered to NF														
Delivered to Transco														
Delivered to Algonquin														
Total Delivered														
M3 DELIVERED														
Basis														
Usage on AGT	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	
Fuel on AGT	0.84%	1.35%	1.35%	1.35%	1.35%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	
Total Delivered														
COLUMBIA MAUMEE														
Basis														
Usage on Columbia	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	
Usage on AGT	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	
Fuel on Columbia	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	
Fuel on AGT	0.84%	1.35%	1.35%	1.35%	1.35%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	
Total Delivered														
COLUMBIA BROADRUN														
Basis														
Usage on Columbia	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	
Usage on AGT	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	
Fuel on Columbia	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	
Fuel on AGT	0.84%	1.35%	1.35%	1.35%	1.35%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	
Total Delivered														
COLUMBIA EAGLE														
Basis														
Usage on Columbia	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	
Usage on AGT	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	\$0.0131	
Fuel on Columbia	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	
Fuel on AGT	0.84%	1.35%	1.35%	1.35%	1.35%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	
Total Delivered														
COLUMBIA DOWNTOWN														
Basis														
Usage on Columbia	\$0.1979	\$0.2440	\$0.2467	\$0.2297	\$0.2438	\$0.1792	\$0.1422	\$0.1570	\$0.1530	\$0.1453	\$0.1265	\$0.1226	\$0.1226	
Usage on AGT	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	\$0.0245	
Fuel on Columbia	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	2.06%	
Fuel on AGT	0.84%	1.35%	1.35%	1.35%	1.35%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	
Total Delivered														

National Grid
2010 Estimated GCR
Normal Weather Scenario

Ventyx
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Natural Gas Supply VS. Requirements

Units: MDT

	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
TETCO -> DTI -> TETCO													
Basis													
Usage to M2	\$0.4324	\$0.4324	\$0.4324	\$0.4324	\$0.4324	\$0.4324	\$0.4324	\$0.4324	\$0.4324	\$0.4324	\$0.4324	\$0.4324	\$0.4324
Usage on Dominion	\$0.0251	\$0.0251	\$0.0251	\$0.0251	\$0.0251	\$0.0251	\$0.0251	\$0.0251	\$0.0251	\$0.0251	\$0.0251	\$0.0251	\$0.0251
Usage on Tetco	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019
Usage on AGT	\$0.2292	\$0.2292	\$0.2292	\$0.2292	\$0.2292	\$0.2292	\$0.2292	\$0.2292	\$0.2292	\$0.2292	\$0.2292	\$0.2292	\$0.2292
Fuel to M2	5.72%	6.33%	6.33%	6.33%	6.33%	5.72%	5.72%	5.72%	5.72%	5.72%	5.72%	5.72%	5.72%
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%	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%	1.29%
Fuel on AGT	0.84%	1.35%	1.35%	1.35%	1.35%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%
Delivered to Dominion													
Delivered to Tetco													
Delivered to Algonquin													
Total Delivered													
TRANSCO ZONE 2													
Basis													
Usage on Transco	\$0.03696	\$0.03696	\$0.03696	\$0.03696	\$0.03696	\$0.03696	\$0.03696	\$0.03696	\$0.03696	\$0.03696	\$0.03696	\$0.03696	\$0.03696
Usage on Tetco	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019
Usage on AGT	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019
Fuel on Transco	5.35%	5.35%	5.35%	5.35%	5.35%	5.35%	5.35%	5.35%	5.35%	5.35%	5.35%	5.35%	5.35%
Fuel on Tetco	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Fuel on AGT	0.84%	1.35%	1.35%	1.35%	1.35%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%
Total Delivered													
TRANSCO ZONE 3													
Basis													
Usage on Transco	\$0.03433	\$0.03433	\$0.03433	\$0.03433	\$0.03433	\$0.03433	\$0.03433	\$0.03433	\$0.03433	\$0.03433	\$0.03433	\$0.03433	\$0.03433
Usage on Tetco	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019
Usage on AGT	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019
Fuel on Transco	4.93%	4.93%	4.93%	4.93%	4.93%	4.93%	4.93%	4.93%	4.93%	4.93%	4.93%	4.93%	4.93%
Fuel on Tetco	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Fuel on AGT	0.84%	1.35%	1.35%	1.35%	1.35%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%
Total Delivered													
AECO TO TENNESSEE - ANE II													
Basis													
Transcanada usage	\$0.0848	\$0.0848	\$0.0848	\$0.0848	\$0.0848	\$0.0848	\$0.0848	\$0.0848	\$0.0848	\$0.0848	\$0.0848	\$0.0848	\$0.0848
Transcanada pressure chg	\$0.0174	\$0.0174	\$0.0174	\$0.0174	\$0.0174	\$0.0174	\$0.0174	\$0.0174	\$0.0174	\$0.0174	\$0.0174	\$0.0174	\$0.0174
Fuel on TCPL	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%
Iroquois usage	\$0.0052	\$0.0052	\$0.0052	\$0.0052	\$0.0052	\$0.0052	\$0.0052	\$0.0052	\$0.0052	\$0.0052	\$0.0052	\$0.0052	\$0.0052
NETNE usage	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019
Fuel on Iroquois	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Fuel Tenn NET18	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%
Total Delivered													
NIAGARA TO TENNESSEE													
Basis													
Tenn usage	\$0.0784	\$0.0784	\$0.0784	\$0.0784	\$0.0784	\$0.0784	\$0.0784	\$0.0784	\$0.0784	\$0.0784	\$0.0784	\$0.0784	\$0.0784
Tenn Fuel	2.09%	2.09%	2.09%	2.09%	2.09%	1.86%	1.86%	1.86%	1.86%	1.86%	1.86%	1.86%	1.86%
Total Delivered													
Tetco to B&W - SCT													
Basis													
usage on Tetco	\$0.5414	\$0.5414	\$0.5414	\$0.5414	\$0.5414	\$0.5414	\$0.5414	\$0.5414	\$0.5414	\$0.5414	\$0.5414	\$0.5414	\$0.5414
usage on AGT	\$0.2292	\$0.2292	\$0.2292	\$0.2292	\$0.2292	\$0.2292	\$0.2292	\$0.2292	\$0.2292	\$0.2292	\$0.2292	\$0.2292	\$0.2292
fuel to ZN 3	6.72%	7.62%	7.62%	7.62%	7.62%	6.72%	6.72%	6.72%	6.72%	6.72%	6.72%	6.72%	6.72%
Fuel on AGT	0.84%	1.35%	1.35%	1.35%	1.35%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%
Total Delivered													

REDACTED

National Grid
2010 Estimated GCR
Normal Weather Scenario

Ventyx
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Natural Gas Supply VS. Requirements				Units: MDT									
	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
DISTRIGAS FCS													
Total Delivered													
Hubline													
Basis													
usage	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	
fuel	0.84%	1.35%	1.35%	1.35%	1.35%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	
Total Delivered													

Total delivered to the City Gate Gas Supply Costs

TENN CONNEXION													
Delivered Mmbtu	348,000	359,600	359,600	324,800	359,600	348,000	359,600	348,000	359,600	359,600	348,000	359,600	
NYMEX \$/Mmbtu Del	\$5.300	\$5.461	\$5.590	\$5.528	\$5.441	\$5.238	\$5.244	\$5.266	\$5.331	\$5.386	\$5.431	\$5.521	
Total Delivered Cost	\$1,844,348	\$1,963,928	\$2,010,291	\$1,795,396	\$1,956,562	\$1,822,981	\$1,885,767	\$1,832,454	\$1,917,113	\$1,936,961	\$1,890,003	\$1,985,281	
Tennessee Zn 0													
Delivered Mmbtu	81,183	187,459	171,829	172,645	185,730	75,538	56,939	41,146	38,438	32,141	0	0	
NYMEX \$/Mmbtu Del	\$5.461	\$5.622	\$5.751	\$5.688	\$5.602	\$5.399	\$5.405	\$5.426	\$5.492	\$5.547	\$5.592	\$5.682	
Total Delivered Cost	\$443,314	\$1,053,937	\$988,217	\$982,091	\$1,040,410	\$407,851	\$307,749	\$223,280	\$211,103	\$178,291	\$0	\$0	
TENN ZONE 1													
Delivered Mmbtu	167,617	387,041	354,771	356,455	383,470	155,962	117,561	84,954	79,362	66,359	0	0	
\$/Mmbtu Del	\$5.421	\$5.674	\$5.820	\$5.788	\$5.677	\$5.426	\$5.439	\$5.472	\$5.532	\$5.581	\$5.612	\$5.699	
Total Delivered Cost	\$908,581	\$2,196,030	\$2,064,696	\$2,063,014	\$2,176,894	\$846,292	\$639,366	\$464,869	\$439,033	\$370,338	\$0	\$0	
TENN DRACUT													
Delivered Mmbtu	0	45,000	120,400	60,100	0	425,900	2,300	0	0	75,000	62,400	4,300	
\$/Mmbtu Del	\$5.98	\$6.22	\$6.36	\$6.32	\$6.22	\$5.29	\$5.37	\$5.38	\$5.49	\$5.45	\$5.45	\$5.58	
Total Delivered Cost	\$0	\$279,894	\$765,394	\$380,060	\$0	\$2,253,270	\$12,349	\$0	\$0	\$408,588	\$340,159	\$23,999	
TETCO ELA													
Delivered Mmbtu	269,427	273,583	327,270	293,067	271,981	179,249	185,236	179,249	97,155	90,254	70,769	6,177	
\$/Mmbtu Del	\$5.3567	\$5.6891	\$5.8371	\$5.8037	\$5.6920	\$5.4291	\$5.4425	\$5.4781	\$5.5380	\$5.5871	\$5.6159	\$5.7037	
Total Delivered Cost	\$1,443,240	\$1,556,431	\$1,910,311	\$1,700,861	\$1,548,123	\$973,154	\$1,008,151	\$981,948	\$538,042	\$504,259	\$397,434	\$35,232	
TETCO ETX													
Delivered Mmbtu	80,713	81,958	98,041	87,795	81,478	53,698	55,492	53,698	29,105	27,038	21,201	1,850	
NYMEX \$/Mmbtu Del	\$5.1535	\$5.4686	\$5.6133	\$5.5931	\$5.4640	\$5.2063	\$5.2089	\$5.2238	\$5.2913	\$5.3487	\$5.3995	\$5.4913	
Total Delivered Cost	\$415,952	\$448,199	\$550,335	\$491,044	\$445,202	\$279,569	\$289,050	\$280,507	\$154,003	\$144,617	\$114,473	\$10,162	
TETCO STX													
Delivered Mmbtu	120,301	122,157	146,128	130,857	121,442	80,036	82,709	80,036	43,380	40,299	31,599	2,758	
NYMEX \$/Mmbtu Del	\$5.239	\$5.578	\$5.725	\$5.704	\$5.574	\$5.322	\$5.324	\$5.338	\$5.407	\$5.465	\$5.518	\$5.611	
Total Delivered Cost	\$630,294	\$681,397	\$836,568	\$746,367	\$676,883	\$425,988	\$440,368	\$427,218	\$234,541	\$220,242	\$174,369	\$15,476	

National Grid
2010 Estimated GCR
Normal Weather Scenario

Ventyx
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Natural Gas Supply VS. Requirements				Units: MDT									
	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
TETCO WLA													
Delivered Mmbtu	185,163	188,019	224,916	201,410	186,919	123,189	127,303	123,189	66,770	62,027	48,636	4,245	
\$/Mmbtu Del	\$5.3332	\$5.6741	\$5.8231	\$5.7881	\$5.6772	\$5.4050	\$5.4187	\$5.4545	\$5.5144	\$5.5637	\$5.5925	\$5.6806	
Total Delivered Cost	\$987,512	\$1,066,838	\$1,309,707	\$1,165,775	\$1,061,167	\$665,839	\$689,812	\$671,930	\$368,196	\$345,100	\$271,998	\$24,115	
TETCO -> NF -> TRANSCO													
Delivered Mmbtu	13,202	13,406	16,037	14,361	13,327	8,783	9,077	8,783	4,761	4,423	3,468	303	
Delivered \$/Mmbtu	\$6.0362	\$6.3624	\$6.5124	\$6.4785	\$6.3654	\$6.1096	\$6.1233	\$6.1594	\$6.2202	\$6.2701	\$6.2993	\$6.3884	
Delivered Cost	\$79,691	\$85,294	\$104,437	\$93,036	\$84,835	\$53,664	\$55,580	\$54,101	\$29,613	\$27,730	\$21,845	\$1,934	
M3 DELIVERED													
Delivered Mmbtu	146,600	119,900	12,900	4,800	419,300	50,100	0	0	0	0	0	0	
Delivered \$/Mmbtu	\$5.3772	\$6.0326	\$6.4929	\$6.4213	\$5.7268	\$5.3735	\$5.3891	\$5.4651	\$5.5083	\$5.5360	\$5.5202	\$5.5908	
Delivered Cost	\$788,291	\$723,304	\$83,758	\$30,822	\$2,401,262	\$269,214	\$0	\$0	\$0	\$0	\$0	\$0	
COLUMBIA MAUMEE													
Delivered Mmbtu	689,325	883,650	883,650	798,075	883,650	662,250	482,250	180,000	250,950	0	11,700	443,025	
Delivered \$/Mmbtu	\$5.2213	\$5.5220	\$5.6670	\$5.6217	\$5.5299	\$5.2853	\$5.3082	\$5.3597	\$5.4113	\$5.4488	\$5.4591	\$5.5382	
Total Delivered Cost	\$3,599,197	\$4,879,538	\$5,007,674	\$4,486,537	\$4,886,489	\$3,500,177	\$2,559,900	\$964,751	\$1,357,970	\$0	\$63,871	\$2,453,550	
COLUMBIA BROADRUN													
Delivered Mmbtu	229,775	294,550	294,550	266,025	294,550	220,750	160,750	60,000	83,650	0	3,900	147,675	
Delivered \$/Mmbtu	\$5.2964	\$5.6198	\$5.7634	\$5.7116	\$5.6227	\$5.3523	\$5.3297	\$5.3830	\$5.4345	\$5.4719	\$5.4762	\$5.5545	
Total Delivered Cost	\$1,216,981	\$1,655,323	\$1,697,608	\$1,519,440	\$1,656,176	\$1,181,523	\$856,743	\$322,980	\$454,595	\$0	\$21,357	\$820,268	
COLUMBIA EAGLE													
Delivered Mmbtu	0	10,237	2,125	290	0	0	0	0	0	0	0	0	
Delivered \$/Mmbtu	\$5.5148	\$6.1841	\$6.6541	\$6.5811	\$5.8720	\$5.5111	\$5.5270	\$5.6046	\$5.6487	\$5.6770	\$5.6608	\$5.7329	
Delivered Cost	\$0	\$63,310	\$14,138	\$1,907	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
COLUMBIA DOWNINGTOWN													
Delivered Mmbtu	0	10,963	2,275	310	0	0	0	0	0	0	0	0	
Delivered \$/Mmbtu	\$5.7253	\$6.4723	\$6.9702	\$6.8768	\$6.1359	\$5.6767	\$5.6551	\$5.7484	\$5.7883	\$5.8086	\$5.7727	\$5.8405	
Delivered Cost	\$0	\$70,953	\$15,859	\$2,134	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
TETCO -> DTI -> TETCO													
Delivered Mmbtu	7,836	7,957	9,518	8,523	7,910	5,213	5,387	5,213	2,826	2,625	2,058	180	
Delivered \$/Mmbtu	\$6.1571	\$6.4896	\$6.6424	\$6.6079	\$6.4926	\$6.2319	\$6.2459	\$6.2827	\$6.3446	\$6.3955	\$6.4252	\$6.5160	
Delivered Cost	\$48,245	\$51,635	\$63,222	\$56,321	\$51,357	\$32,488	\$33,648	\$32,752	\$17,927	\$16,787	\$13,224	\$1,171	
TRANSCO ZONE 2													
Delivered Mmbtu	3,915	4,013	4,013	3,621	4,013	2,740	1,468	0	4,013	0	0	0	
Delivered \$/Mmbtu	\$5.2099	\$5.4942	\$5.6400	\$5.6044	\$5.4974	\$5.3051	\$5.3213	\$5.3610	\$5.4184	\$5.4652	\$5.4894	\$5.5745	
Delivered Cost	\$20,396	\$22,047	\$22,632	\$20,295	\$22,060	\$14,538	\$7,812	\$0	\$21,743	\$0	\$0	\$0	
TRANSCO ZONE 3													
Delivered Mmbtu	85	87	87	79	87	60	32	0	87	0	0	0	
Delivered \$/Mmbtu	\$5.2670	\$5.5535	\$5.6991	\$5.6620	\$5.5569	\$5.3282	\$5.3444	\$5.3843	\$5.4413	\$5.4878	\$5.5117	\$5.5962	
Delivered Cost	\$448	\$484	\$497	\$446	\$485	\$317	\$171	\$0	\$475	\$0	\$0	\$0	

National Grid
2010 Estimated GCR
Normal Weather Scenario

Ventyx
SENDOUT® Version 12.5.5 30-Aug-2010
06:42:41

	Natural Gas Supply VS. Requirements				Units: MDT								
	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	Total/Average
AECO TO TENNESSEE - ANE II													
Delivered Mmbtu	30,000	30,900	30,900	28,000	30,900	30,000	30,900	30,000	30,900	30,900	30,000	30,900	
Delivered \$/Mmbtu	\$6.0732	\$6.3252	\$6.4680	\$6.4333	\$6.3283	\$6.1499	\$6.1656	\$6.2045	\$6.2612	\$6.3074	\$6.3315	\$6.4155	
Total Delivered Cost	\$182,196	\$195,449	\$199,861	\$180,134	\$195,546	\$184,496	\$190,517	\$186,134	\$193,470	\$194,897	\$189,945	\$198,239	
NIAGARA TO TENNESSEE													
Delivered Mmbtu	0	3,200	3,400	1,100	21,800	0	0	0	0	0	0	0	
Delivered \$/Mmbtu	\$5.6467	\$5.8111	\$5.8230	\$5.8182	\$5.7342	\$5.4792	\$5.5038	\$5.5545	\$5.6033	\$5.6382	\$5.6449	\$5.7257	
Total Delivered Cost	\$0	\$18,596	\$19,798	\$6,400	\$125,006	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Tetco to B&W - SCT													
Delivered Mmbtu	29,958	30,421	36,390	32,587	30,243	19,931	20,597	19,931	10,803	10,036	7,869	687	
Delivered \$/Mmbtu	\$6.0533	\$6.3940	\$6.5426	\$6.5090	\$6.3969	\$6.1259	\$6.1394	\$6.1751	\$6.2351	\$6.2844	\$6.3132	\$6.4012	
Total Delivered Cost	\$181,349	\$194,509	\$238,085	\$212,109	\$193,460	\$122,097	\$126,453	\$123,077	\$67,358	\$63,068	\$49,679	\$4,397	
DISTRIGAS FCS													
Delivered Mmbtu	0	0	0	0	0	0	0	0	0	0	0	0	
Delivered \$/Mmbtu													
Total Delivered Cost													
HUBLINE													
Total Delivered Vol	0	72,600	271,000	184,700	200	270,200	37,700	222,800	22,200	225,000	171,400	122,000	
Delivered \$/Mmbtu	\$5.9105	\$6.1844	\$6.3222	\$6.2888	\$6.1874	\$5.2259	\$5.3042	\$5.3177	\$5.4215	\$5.3831	\$5.3865	\$5.5165	
Total Delivered Cost	\$0	\$448,985	\$1,713,323	\$1,161,536	\$1,237	\$1,412,033	\$199,970	\$1,184,773	\$120,358	\$1,211,198	\$923,251	\$673,016	
WACOG													
	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	
Total Pipeline Costs													
Total Pipeline Volumes	2,403,100	3,126,700	3,369,800	2,969,600	3,296,600	2,711,600	1,735,300	1,437,000	1,124,000	1,025,700	813,000	1,123,700	25,136,100
WACOG	\$5.322	\$5.647	\$5.821	\$5.757	\$5.619	\$5.327	\$5.361	\$5.394	\$5.450	\$5.481	\$5.500	\$5.559	\$5.556
Injections	0	0	0	0	0	740,400	756,600	720,900	446,800	424,500	185,600	16,200	3,291,000
Value at WACOG	\$0	\$0	\$0	\$0	\$0	\$3,944,329	\$4,056,334	\$3,888,332	\$2,434,955	\$2,326,774	\$1,020,825	\$90,059	\$17,761,608
Pipeline Costs less Injections	\$12,790,036	\$17,656,080	\$19,616,411	\$17,095,724	\$18,523,154	\$10,501,163	\$5,247,072	\$3,862,442	\$3,690,582	\$3,295,303	\$3,450,785	\$6,156,780	\$121,885,531
Pipeline Volumes less injections	2,403,100	3,126,700	3,369,800	2,969,600	3,296,600	1,971,200	978,700	716,100	677,200	601,200	627,400	1,107,500	21,845,100
NYMEX cost of Supplies													
Non-gas cost of delivered supplies	\$11,796,818	\$16,099,378	\$17,809,393	\$15,596,339	\$16,984,083	\$9,820,518	\$4,890,564	\$3,604,847	\$3,445,594	\$3,085,358	\$3,234,247	\$5,797,763	

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
PUBLIC UTILITIES COMMISSION

NATIONAL GRID

DOCKET No. 4199

REBUTTAL TESTIMONY

OF

JOHN F. NESTOR, III

October 14, 2010

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I. INTRODUCTION

1 **Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

2 A. My name is John F. Nestor, III. My business address is Reservoir Woods, 40 Sylvan
3 Road, Waltham, Massachusetts 02451-1120.

4 **Q. HAVE YOU PREVIOUSLY SUBMITTED TESTIMONY IN THIS DOCKET?**

5 A. Yes. I previously submitted pre-filed Direct Testimony in this docket on September
6 1, 2010.

7 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

8 A. The purpose of this rebuttal testimony is to address the Gas Cost Recovery (“GCR”)
9 issues raised in the October 7, 2010 Direct Testimony of Bruce R. Oliver on behalf of
10 the Division of Public Utilities and Carriers (“Division”). Specifically, this testimony
11 addresses Mr. Oliver’s comments regarding “inconsistencies” in the Company’s GCR
12 Deferred Balances in Attachment NG-JFN-1 pages 6-9. I further address Mr.
13 Oliver’s adjustment of the Natural Gas Portfolio Management Plan (“NGPMP”)
14 customer benefits, increasing it to \$3,400,000. In addition, I address Mr. Oliver’s
15 adjustment of LNG costs to reflect the position he has taken in the Distribution
16 Adjustment Charge (“DAC”) proceeding, to establish the System Pressure Factor at
17 zero (“\$0.000”). Finally, I discuss Mr. Oliver’s recommendation to reject \$1,348,893

1 of a \$6.2M adjustment to gas costs included in the Annual Gas Cost Reconciliation
2 Report that he characterizes as out-of-period adjustments.

3 This testimony also provides updated gas cost rates based upon the changes and
4 modifications identified in the Rebuttal Testimony of Ms. Arangio, as well as an
5 updated impact of these new proposed gas rates on customer bills

6 **Q. ARE YOU SPONSORING ANY ATTACHMENTS TO YOUR TESTIMONY?**

7 A. Yes. I am sponsoring the following Attachments:

8 Attachment NG-JFN-1S- Gas Cost Recovery Factors
9 Attachment NG-JFN-3S Projected Gas Cost Balances
10 Attachment NG-JFN-4S Bill Impacts
11 Attachment NG-JFN-5S NGV Tariff
12 Attachment NG-JFN-6S Marketer Transportation Factors

II. GCR ISSUES

13 **Q. BEFORE ADDRESSING THE SPECIFIC ISSUES IDENTIFIED ABOVE,**
14 **WOULD YOU PLEASE ADDRESS MR. OLIVER'S COMMENTS**
15 **CONCERNING THE SUPPORTING DOCUMENTS FOR FUTURE GCR**
16 **FILINGS (OLIVER DIRECT at 40-41).**

17 A. The Company would agree with Mr. Oliver's assessments and request that the
18 Company provide the Division with copies of all electronic spreadsheets at the time
19 of filing future GCR filings. To the extent the information is readily available at that

1 time, the Company is willing to provide this information to the Division and the
2 Commission.¹ This will make information more timely available for review by the
3 Division and Commission staff and will assist in focusing and limiting the scope of
4 discovery in the future.

5 **Q. PLEASE ADDRESS MR. OLIVER'S COMMENTS ON**
6 **"INCONSISTENCIES" IN ATTACHMENT NG-JFN-1, PAGES 6-9. (OLIVER**
7 **DIRECT 7-9)**

8 Mr. Oliver identifies what he perceives to be monthly "inconsistencies" in the
9 Company's gas cost account balances in Attachment NG-JFN-1. However, his
10 observations do not take into account additional information that was submitted to the
11 Commission. As stated on page 4, footnote 2 of my direct testimony, the Company
12 was aware of a double-counting adjustment that had occurred in the Storage Variable
13 Product Costs-UG since November of 2009 and provided an adjustment at the time of
14 its September 1 GCR filing in this docket. Specifically, my direct testimony stated
15 that:

16 The Deferred Balance of \$6,727,553 includes a one-time adjustment for
17 Storage Variable Product Costs-UG that will be made with the
18 September 20th Deferred Report filing to account for a double-counting
19 of these costs that had been included incorrectly in prior periods. This

¹ Some spreadsheet information in the GCR relies upon other software programs that can not easily be provided. Also, the Company and the Division will need to sign a protective agreement before certain spreadsheets can be made available. To this end, the Company would be willing to work with the Division on formalizing a process to have a protective agreement in place at the time of filing future GCR cases.

1 adjustment results in lowering the reported July Deferred Balance of
2 \$7,423,481 by \$695,928 for purposes of calculating GCR rates.

3 At the time the GCR was filed, the \$695,928 variance represented the difference
4 between the October 31st Ending Balance as filed in the July 2010 Deferred Report
5 and the best estimate of what the projected October 31st Ending Balance would be in
6 the next deferred filing, the August Deferred Report, after the correction for double-
7 counting. It is not meant to be the estimated adjustments for certain categories such
8 as the Storage Variable and Variable Non-Products categories as Mr. Oliver
9 observed.

10 Additionally, in its September 20 Deferred Balance report the Company recorded this
11 double-counting adjustment in the month of August consistent with how these types
12 of adjustments have been handled in the past. That is, the Company did not go back
13 and recalculated each month of the Deferred Balance report. Thus, when Mr. Oliver
14 indicates that the monthly totals for items such as the "Monthly Average Balances"
15 do not reconcile he is correct because these months included the double-counting.
16 However, the August adjustment corrects these problems and appropriately resets the
17 category balances going forward.

18 As noted above, producing the spreadsheets to the Division and Commission with
19 future GCR filings should help to limit these types of issues in the future as it will
20 better enable the Division and the Commission to examine the underlying data relied
21 upon in the GCR filing.

1 **Q. PLEASE ADDRESS MR. OLIVER’S RECOMMENDATION TO MAINTAIN**
2 **THE NGPMP CREDIT AT \$3,400,000.**

3 A. Although the Company’s initial filing included a \$2,400,000 credit based upon the
4 results experienced this past year, a level it believes is a better measure of the likely
5 credit given current market conditions, the Company is willing to adopt his
6 recommendation to establish the NGPMP credit of \$3,400,000 for this filing.

7 **Q. PLEASE ADDRESS MR. OLIVER’S ADJUSTMENT TO THE ALLOCATION**
8 **OF LNG TO THE DAC. (Exhibit BRO-7, pages 3-5)**

9 A. Consistent with the position that he set forth in Docket No. 4196 to establish the
10 System Pressure factor in the DAC at zero (“\$0.000”), Mr. Oliver adjusts both the
11 Storage Fixed (\$661,228) and Storage Variable (\$349,551) factors² to eliminate the
12 allocation of LNG to the DAC. For the reasons set forth in my rebuttal testimony of
13 October 6, 2010 in Docket No. 4196, the Company would recommend that the
14 System Pressure allocation factor be maintained at 16.8% until a new study can be
15 prepared. This approach better reflects the use of LNG for System Pressure in the
16 coming year and has the benefit of maintaining the underlying regulatory policy that
17 both sales and marketer customers should pay a portion of any System Pressure LNG

² The Storage Variable factor also includes an adjustment of \$96,562 for Inventory Financing.

1 support. (Docket No. 4196, Nestor Rebuttal at 5-7). Accordingly, the Commission
2 should not adopt Mr. Oliver's adjustments to LNG in this proceeding.

3 **Q. PLEASE ADDRESS MR. OLIVER'S RECOMMENDATION TO DISALLOW**
4 **\$1,348,893 OF THE COMPANY'S \$6,173,538 GAS COST ADJUSTMENT IN**
5 **THE ANNUAL GAS COST RECONCILIATION FILING. (OLIVER DIRECT**
6 **at 30-36)**

7 A. Mr. Oliver's recommends that the Commission disallow \$1,348,893 of a \$6,173,538
8 gas cost adjustment that was recorded in April of 2010, because this amount relates to
9 May and June of 2009. According to Mr. Oliver, the Annual Gas Cost Reconciliation
10 filing is intended *only* to address gas costs for the period between July 1, 2009 and
11 June 30, 2010. (Oliver Direct at 30 *emphasis added*) He asserts that once an annual
12 reconciliation filing has been accepted and new GCR rates established, it would be
13 retroactive ratemaking for the Commission to include in this year's GCR rates these
14 two months of costs that related to a prior period. (Oliver Direct at 36)

15 Mr. Oliver's recommendation should be rejected. His recommendation is based upon
16 an incorrect legal foundation; conflicts directly with past Commission precedent; and
17 seeks to establish a new regulatory policy that would undermine and eliminate
18 appropriate benefits for customers.

19 As part of his argument, Mr. Oliver relies upon the Company's tariff for support of
20 his view that only gas costs for the July to June period may be included in the Annual

1 Reconciliation. (Oliver Direct at 36) However, a careful reading of the tariff does not
2 support Mr. Oliver's interpretation that prior period adjustments must be excluded
3 from these filings. Rather, the tariff states that "the Annual Reconciliation filing will
4 be made by August 1 of each year containing *actual data* for the twelve months
5 ending June 30 of that year." (RI PUC Gas No. 101, Section 2, Schedule A, Sheet 2
6 *emphasis added*) The tariff does not limit the Annual Reconciliation filing only to
7 gas costs incurred within the July to June period as Mr. Oliver asserts. Rather, the
8 tariff simply requires that the actual data that comprises the Annual Reconciliation
9 filing be information recorded in that timeframe. Consequently, as discussed in more
10 detail below, prior Annual Reconciliation filings have included adjustments from
11 prior periods.

12 Additionally, Mr. Oliver's reliance on the Commission's decision in Providence
13 Water Supply, Docket No. 3832 ("Providence Water Supply") in support of his
14 arguments on retroactive ratemaking is misplaced. Here again, a careful reading of
15 that Order and the Supreme Court decisions referenced therein actually supports the
16 Company's position that there is no retroactive ratemaking in this case. In particular,
17 unlike the Providence Water Supply proceeding, which was a general distribution rate
18 case where the determination of healthcare expenses for inclusion in distribution rates
19 would have provided a rate benefit to the water company, the \$1.3 million of prior
20 period adjustments included in the Annual Reconciliation filing in this GCR
21 proceeding relates only to the recovery of gas costs. The Company does not profit

1 from gas costs, rather through the Annual Reconciliation filing it only seeks to
2 recover costs designed to be passed through on a regularly occurring basis.³ There is
3 no financial incentive or benefit for the Company to misstate gas costs. The
4 Company is not seeking to increase distribution rates in this case but simply to
5 recover gas costs that it has incurred on behalf of its customers. As was explained in
6 the Company's May Deferred Balance report and on separate calls with the Division,
7 as well as in the Company's Response to DIV 3-1, the \$6.2 million adjustment,
8 including the \$1.3 million prior period adjustment, resulted from the Company's
9 correctly recording gas costs to the Company ledger where the Company bought and
10 sold gas to a supplier in a month but incorrectly reported a "net" amount for
11 regulatory Deferred Balance reporting. The error was directly related to changes in
12 the accounting process that were put in place in April 2009 when the Company
13 switched from the outsourcing of gas supply purchasing, which it had done for over a
14 decade, to insourcing the function as part of the NGPMP. That change was very
15 complex from an accounting and controls standpoint because it involved a large
16 number of transactions involving both payments and receivables and additional
17 controls to provide proper oversight of the futures trading used to lock in storage
18 related benefits to customers. This incorrect reporting was discovered in April 2010
19 and reported in the next month's deferral report. The Company has corrected the

³ Mr. Oliver's statement that the Company may not have prudently incurred these gas costs is unsupported and incorrect as the Company provided the adjustment in the Company's Response to

1 problem and conducted a further review of accounting procedures and put in place
2 additional processes to ensure that the inputs to the Deferred Report are correct for
3 reporting future gas costs.⁴

4 Moreover, as the Commission recognized in the Provide Water Supply decision, the
5 Rhode Island Supreme Court has noted that an exception to the policy of retroactive
6 ratemaking exists for past costs related to a reconciliation tariff. Specifically, the
7 Commission stated:

8 Second, there is an exception for reviews of past costs in
9 conjunction with a reconciliation tariff. For instance, noting that
10 “the specter of retroactive ratemaking must not be viewed as a
11 talismanic inhibition against the application of principles based
12 upon equity and common sense” the Court found that a review of
13 past costs associated with a reconciliation tariff was not
14 retroactive ratemaking. *Providence Water Supply* at 60 citing
15 *Roberts v Narragansett Electric Co.*, 470 A2d. 215,217 (R.I.
16 1984)

17 While Mr. Oliver acknowledges this exception, his only attempt to distinguish its
18 applicability is based upon his strained interpretation of the tariff noted above.
19 (Oliver Direct at 35-36) Instead, the Company agrees with the Commission and the
20 Supreme Court that equity and common sense should guide the Commission in this
21 case. The underlying purpose of the GCR charge, as stated in the applicable
22 Commission-approved tariff, is to recover all costs of gas supplies. (RIPUC NG No.

DIV 3-1. If Mr. Oliver had evidence that the Company had imprudently incurred \$6.2M in gas costs he should have recommended to disallow all of these costs.

1 101, Section 2, Schedule A, Sheet 1, clause 1.1). The \$1.3 million prior period
2 adjustment in this proceeding relates to costs designed to be passed through on a
3 regularly occurring basis within a reconciliation tariff (the Annual Reconciliation and
4 GCR filings) and results from an inadvertent mistake that relates to only two months
5 prior to the current Annual Reconciliation filing period. As such, it is consistent with
6 past Commission precedent for prior period adjustments to be adjusted in Annual
7 Reconciliation Filings in the GCR.

8 For example, in last year's GCR filing in Docket No. 4097, the Commission approved
9 the Annual Reconciliation filing for the July 2008 to June 2009 period with a prior
10 period adjustment for non-firm gas costs dating back to February 2008. In the 2008
11 GCR filing in Docket No. 3982, the Annual Reconciliation filing for the July 2007 to
12 June 2008 period was approved with prior period adjustments for June of 2007. This
13 also was the case with the 2007 GCR filing which was approved by the Commission
14 with prior period adjustments for June 2006. In short, the Company's request to
15 recover all of the \$6.2 million adjustment is consistent with past Commission
16 practice.⁵

⁴ See Company Response to DIV 3-2.

⁵ One reason out of period adjustments occur in the GCR filing is because the Annual Reconciliation Balance Report is based upon the Providence Gas fiscal year (July to June) whereas National Grid's accounting processes are structured around National Grid's fiscal year (April to March). As noted above, this adjustment was discovered in April of 2010 as part of National Grid's fiscal year review. The Company would be willing to discuss possible future modifications to the tariff with the Division to address this issue.

1 On the other hand, Mr. Oliver's recommendation would change the Commission's
2 practice and establish a new regulatory policy that excludes prior period gas cost
3 adjustments. Such a new regulatory policy would undermine and eliminate customer
4 benefits. Prior period adjustments can both increase and decrease gas costs. For
5 example, if the \$1.3M prior period adjustment in gas costs in this case had resulted
6 from a double counting of gas costs, then consistent with Mr. Oliver's position the
7 Company would not pass on these lower gas costs to customers. In fact, under Mr.
8 Oliver's interpretation, the Company should eliminate most of the \$695,928 double
9 counting adjustment of gas costs that the Company made in its September Deferred
10 Balance report since they relate back to November of 2009, which would be a prior
11 period adjustment for next year's Annual Reconciliation filing.

12 Likewise, prior period adjustments include refunds, such as the \$789,299 Tennessee
13 pipeline refunds that the Company has included in the Annual Reconciliation filing.
14 RIPUC, No. 101, Section 2, Schedule A, Sheet 13 provides that refunds resulting
15 from gas supply overcharges may be returned to customers or credited to gas costs if
16 received in the most recent sixty (60) month period. It would be patently unfair to
17 include in the Annual Reconciliation filing adjustments to gas cost that go back sixty
18 months, but not permit gas cost adjustments in this case that only go back two
19 months. Moreover, some types of refunds could be a over 60 month old and under
20 Mr. Oliver's view these arguably would be excluded from the current GCR rates and
21 possibly future GCR rates.

1 In summary, based upon the above, the Commission should reject Mr. Oliver's
2 recommended adjustment of \$1,348,893 in gas cost and consistent with its past
3 precedent approve the entire \$6,173,538 gas cost adjustment and the Company's
4 Annual Reconciliation filing.

5 ***III. GCR RATES***

6 **Q. PLEASE EXPLAIN THE MODIFICATIONS THE COMPANY HAS MADE IN**
7 **UPDATING THE PROPOSED GCR RATES.**

8 A. The Company has made three modifications in updating its GCR rates. As described
9 in the rebuttal testimony of Ms. Arangio, the Company has eliminated a double
10 counting of costs related to a DistriGas contract. In addition, the Company has
11 modified the demand charges for LNG consistent with my System Pressure testimony
12 submitted in the DAC proceeding on October 6, 2010 in Docket No. 4196. This
13 modification eliminates \$1,971,000 of demand charges. In addition, the schedules
14 have been updated to reflect the forecasted throughput that was modified in the
15 September 27, 2010 DAC errata filing to eliminate the double counting of dual-fuel
16 customer throughput. Finally, the Company has included Mr. Oliver's adjustment of
17 \$3,400,000 for the NGPMP credit.

18

19

1 **Q. WHAT ARE THE FINAL PROPOSED CGR RATES?**

2 A. The final proposed GCR rates are set forth in Attachment NG-JFN-1S. As shown on
3 that attachment, the Company is now proposing for Residential Non-Heating and
4 Large and Extra Large High Load customers a rate of \$0.8803 per therm. For
5 Residential Heating, Small and Medium C&I and Large and Extra Large Low Load
6 customers, the Company is now proposing a rate of \$0.9091 per therm. Finally, the
7 Company is proposing and FT-2 Marketer rate of \$0.0376 and a Natural Gas Vehicle
8 rate of \$0.7436.

9 ***IV. BILL IMPACTS***

10 **Q. WHAT IS THE IMPACT OF THE PROPOSED GCR RATE ON**
11 **CUSTOMERS?**

12 A. With the changes referenced above, the overall impact of the proposed GCR rate on
13 the annual bill of an average residential heating customer utilizing 922 therms is a
14 reduction of \$157.68 which when considered with the proposed DAC rate represents
15 an overall bill reduction of 9.3%.

16 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**

17 A. Yes.

National Grid
Rhode Island - Gas

Gas Cost Recovery (GCR)
Fixed Cost Calculation (\$ per Dth)

Line No.	Description (a)	Reference (b)	Residential Non-Heat (c)	Residential Heat (d)	Small C&I (e)	Medium C&I (f)	Large LLF (g)	Large HLF (h)	Extra Large LLF (i)	Extra Large HLF (j)	FT-2 Mkter (k)	NGV (l)
1	Supply Fixed Cost Factor	pg. 2	\$0.6341	\$0.8190	\$0.8190	\$0.8190	\$0.8190	\$0.6341	\$0.8190	\$0.6341	n/a	\$0.6341
2	Storage Fixed Cost Factor	pg. 3	\$0.3032	\$0.3984	\$0.3984	\$0.3984	\$0.3984	\$0.3032	\$0.3984	\$0.3032	\$0.3841	
3	Supply Variable Cost Factor	pg. 4	\$6.6193	\$6.6193	\$6.6193	\$6.6193	\$6.6193	\$6.6193	\$6.6193	\$6.6193	n/a	\$6.6193
4a	Storage Variable Product Cost Factor	pg. 5	\$1.0566	\$1.0566	\$1.0566	\$1.0566	\$1.0566	\$1.0566	\$1.0566	\$1.0566	n/a	
4b	Storage Variable Non-product Cost Factor	pg. 5	(\$0.0263)	(\$0.0263)	(\$0.0263)	(\$0.0263)	(\$0.0263)	(\$0.0263)	(\$0.0263)	(\$0.0263)	(\$0.0263)	
5	Total Gas Cost Recovery Charge	(1)+(2)+(3)+(4)	\$8.5869	\$8.8670	\$8.8670	\$8.8670	\$8.8670	\$8.5869	\$8.8670	\$8.5869	\$0.3578	\$7.2534
6	Uncollectible %	Docket 3943	2.46%	2.46%	2.46%	2.46%	2.46%	2.46%	2.46%	2.46%	2.46%	2.46%
7	Total GCR Charge adjusted for Uncollectibles	(5) / [(1 - (6))]	\$8.8035	\$9.0906	\$9.0906	\$9.0906	\$9.0906	\$8.8035	\$9.0906	\$8.8035	\$0.3669	\$7.4363
8	GCR Charge on a per therm basis	(7) / 10	\$0.8803	\$0.9091	\$0.9091	\$0.9091	\$0.9091	\$0.8803	\$0.9091	\$0.8803	\$0.0367	\$0.7436
	Current rate effective 11/01/09 difference		\$1.0338 (\$0.1535) -14.8%	\$1.0801 (\$0.1710) -15.8%	\$1.0801 (\$0.1710) -15.8%	\$1.0801 (\$0.1710) -15.8%	\$1.0801 (\$0.1710) -15.8%	\$1.0338 (\$0.1535) -14.8%	\$1.0801 (\$0.1710) -15.8%	\$1.0338 (\$0.1535) -14.8%	\$0.0337 \$0.0030 8.9%	\$0.9091 (\$0.1655) -18.2%

National Grid
Rhode Island - Gas

Gas Cost Recovery (GCR)
Fixed Cost Calculation (\$ per Dth)

Line No.	Description (a)	Reference (b)	Amount (c)	Residential Heating (d)	Small C&I (e)	Medium C&I (f)	Large LLF (g)	Extra Large LLF (h)	Low Load Factor Total (i)	Residential Non-Heat (j)	Large HLF (k)	Extra Large HLF (l)	High Load Factor Total (m)	Line No.
1	Supply Fixed Costs (net of Cap Rel to marketers)	EDA-1	\$27,527,751											1
2	Less:													2
3	NGPMP Customer Benefit	EDA-1	\$3,400,000											3
4	Interruptible Costs		\$0											4
5	Non-Firm Sales Costs		\$0											5
6	Off-System Sales Margin		\$0											6
7	Refunds		\$0											7
8	Total Credits	sum[(3):(7)]	\$3,400,000											8
9	Plus:													9
10	Working Capital Requirement	pg 10	\$187,026											10
11	Reconciliation Amount	pg 8	(\$4,680,040)											11
12	Total Additions	(10) + (11)	(\$4,493,014)											12
13	Total Supply Fixed Costs	(1) - (8) + (12)	\$19,634,737											13
14	Design Winter Sales Percentage	pg 15		69.99%	8.66%	12.97%	3.69%	1.29%	96.60%	2.18%	0.72%	0.49%	3.40%	14
15	Allocated Supply Fixed Costs	(13) x (14)		\$13,742,224	\$1,700,245	\$2,546,504	\$725,232	\$253,441	\$18,967,647	\$428,496	\$142,025	\$96,569	\$667,090	15
16	Sales (Dt) Nov 2010 - Oct 2011	pg 14	24,212,727	16,815,263	1,986,681	3,246,619	847,842	264,369	23,160,773	698,210	222,462	131,282	1,051,954	16
17	Supply Fixed Factor	(15) / (16)							\$0.8190				\$0.6341	17

National Grid
Rhode Island - Gas

Gas Cost Recovery (GCR)
Fixed Cost Calculation (\$ per Dth)

Line No.	Description (a)	Reference (b)	Amount (c)	Residential Heating (d)	Small C&I (e)	Medium C&I (f)	Large LLF (g)	Extra Large LLF (h)	Low Load Factor Total (i)	Residential Non-Heat (j)	Large HLF (k)	Extra Large HLF (l)	High Load Factor Total (m)	Line No.
1	Storage Fixed Costs	EDA-1	\$9,483,439											1
2	Less:													2
3	LNG Demand to DAC	EDA-2/Dkt 3943	\$330,100											3
4	Credits		\$0											4
5	Refunds		\$0											5
6	Total Credits	sum [(3):(5)]	\$330,100											6
7	Plus:													7
8	Supply Related LNG O&M Costs	Rate Case	\$618,591											8
9	Working Capital Requirement	pg 10	\$66,391											9
10	Reconciliation Amount	pg 8	\$256,010											10
11	Total Additions	sum [(8):(10)]	\$940,993											11
12	Total Storage Fixed Costs	(1) - (6) + (11)	\$10,094,332											12
13	Design Winter Throughput Percentage	pg 15		66.39%	8.21%	14.61%	5.81%	1.33%	96.35%	2.07%	1.06%	0.52%	3.65%	13
14	Allocated Storage Fixed Costs	(12) x (13)		\$6,701,697	\$829,162	\$1,474,820	\$586,391	\$133,872	\$9,725,943	\$208,966	\$107,288	\$52,136	\$368,390	14
15	Throughput (Dt) Nov 10 - Oct 11	pg 14	25,629,430	16,815,263	1,986,681	3,896,621	1,428,798	287,165	24,414,527	698,210	367,208	149,485	1,214,903	15
16	Storage Fixed Factor	(14) / (15)							\$0.3984				\$0.3032	16

National Grid
Rhode Island - Gas

Gas Cost Recovery (GCR)
Fixed Cost Calculation (\$ per Dth)

Line No.	Description	Reference	Amount	Line No.
1	Variable Supply Costs	EDA-1	\$147,816,198	1
2	Less:			2
3	Non-Firm Sales		\$0	3
4	Variable Delivery Storage Costs	EDA-2 pg 16	\$0	4
5	Variable Injection Storage Costs	EDA Storage Inj	\$0	5
6	Fuel Costs Allocated to Storage	EDA-2	\$325,199	6
7	Refunds (Tennessee Pipeline PCB)		<u>\$1,627,056</u>	7
8	Total Credits	sum [(3):(7)]	<u>\$1,952,255</u>	8
9	Plus:			9
10	Working Capital	pg 11	\$1,002,067	10
11	Reconciliation Amount	pg 8	<u>\$13,406,402</u>	11
12	Total Additions	(10)+(11)	\$14,408,470	12
13	Total Variable Supply Costs	(1)-(8)+(12)	<u>\$160,272,412</u>	13
14	Sales (Dt) Nov 2010 - Oct 2011	pg 14	24,212,727	14
15	Supply Variable Cost Factor	(13)/(14)	<u>\$6.6193</u>	15

National Grid
Rhode Island - Gas

Gas Cost Recovery (GCR)
Fixed Cost Calculation (\$ per Dth)

Line No.	Description	Reference	Amount	Line No.
1	Storage Variable Product Costs	EDA 1	\$23,129,946	1
2	Less:			2
3	Balancing Related LNG Costs (to DAC)	EDA 2/Dkt 3943	\$0	3
4	Refunds		\$0	4
5	Total Credits	(3)+(4)	\$0	5
6	Plus:			6
7	Supply Related LNG O&M	Docket 3943	\$430,129	7
8	Working Capital	pg 11	\$160,069	8
9	Inventory Financing - LNG (Supply)	pg 13	\$478,213	9
10	Inventory Financing - Storage	pg 13	\$1,844,679	10
11	Reconciliation Amount	pg 9	(\$460,482)	11
12	Total Additions	sum[(7):(12)]	\$2,452,609	12
13	Total Storage Variable Costs	(1)-(5)+(13)	\$25,582,555	13
14	Sales (Dt) Nov 2010 - Oct 2011	pg 14	24,212,727	14
15	Storage Variable Product Cost Factor	(14) / (13)	<u>\$1.0566</u>	15
16	Storage Variable Non-Product Costs	EDA-1	\$715,645	16
17	Less:			17
18	Refunds		\$0	18
19	Total Credits		\$0	19
20	Plus:			20

National Grid
Rhode Island - Gas

Gas Cost Recovery (GCR)
Fixed Cost Calculation (\$ per Dth)

21	Variable Delivery Storage Costs	pg 5	\$0	21
22	Variable Injection Storage Costs	pg 5	\$74,252	22
23	Fuel Costs Allocated to Storage - Injection	pg 5	\$325,199	23
24	Working Capital	pg 12	\$4,862	24
25	Inventory Financing - Storage	pg 13	\$0	25
26	Reconciliation Amount	pg 9	(\$1,794,337)	26
27	Total Additions	sum[(22):(27)]	(\$1,390,023)	27
28	Total Storage Variable Costs	(17)-(20)+(28)	(\$674,378)	28
29	Throughput (Dt)	pg 12	25,629,430	29
30	Storage Variable Non-Product Cost Factor	(29) / (30)	<u>(\$0.0263)</u>	30

National Grid
Rhode Island - Gas

Gas Cost Recovery (GCR)
Fixed Cost Calculation (\$ per Dth)

Line No.		Jun-10 30 actual	Jul-10 31 actual	Aug-10 31 fcst	Sep-10 30 fcst	Oct-10 31 fcst	Line No.
<u>I. Supply Fixed Cost Deferred</u>							
1	Beginning Balance	(\$11,723,134)	(\$10,947,773)	(\$9,171,582)	(\$7,552,571)	(\$5,992,424)	1
2	Supply Fixed Costs (net of cap rel)	\$1,780,218	\$2,620,430	\$2,477,975	\$2,477,914	\$2,477,975	2
3	Capacity Release	\$0	\$0	\$0	\$0	\$0	3
4	Working Capital	\$13,239	\$19,488	\$18,428	\$18,428	\$18,428	4
5	Total Supply Fixed Costs	\$1,793,457	\$2,639,918	\$2,496,403	\$2,496,342	\$2,496,403	5
6	Supply Fixed - Collections	\$806,558	\$653,159	\$668,625	\$729,343	\$978,464	6
7	Prelim. Ending Balance	(\$10,736,235)	(\$8,961,014)	(\$7,343,804)	(\$5,785,572)	(\$4,474,484)	7
8	Month's Average Balance	(\$11,229,685)	(\$9,954,393)	(\$8,257,693)	(\$6,669,071)	(\$5,233,454)	8
9	Interest Rate (BOA Prime minus 200 bp)	1.25%	1.25%	1.25%	1.25%	1.25%	9
10	Interest Applied	(\$11,537)	(\$10,568)	(\$8,767)	(\$6,852)	(\$5,556)	10
11	Natural Gas Portfolio Management Plan	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	
12	Supply Fixed Ending Balance	(\$10,947,773)	(\$9,171,582)	(\$7,552,571)	(\$5,992,424)	(\$4,680,040)	12
<u>II. Storage Fixed Cost Deferred</u>							
13	Beginning Balance	(\$1,622,104)	(\$1,137,242)	(\$1,277,032)	(\$713,885)	(\$175,056)	13
14	Storage Fixed Costs	\$853,488	\$19,866	\$823,721	\$822,521	\$823,721	14
15	LNG Demand to DAC	(\$64,296)	\$75,414	(\$26,460)	(\$26,460)	(\$26,460)	15
16	Supply Related LNG O & M	\$51,549	\$51,549	\$51,549	\$51,549	\$51,549	16
17	Working Capital	\$6,252	\$1,092	\$6,312	\$6,304	\$6,312	17
18	Total Storage Fixed Costs	\$846,994	\$147,922	\$855,123	\$853,914	\$855,123	18
19	TSS Peaking Collections	\$0	\$0	\$0	\$0	\$0	19
20	Storage Fixed - Collections	\$360,715	\$286,431	\$290,919	\$314,628	\$424,099	20
21	Prelim. Ending Balance	(\$1,135,825)	(\$1,275,751)	(\$712,829)	(\$174,599)	\$255,968	21
22	Month's Average Balance	(\$1,378,965)	(\$1,206,497)	(\$994,930)	(\$444,242)	\$40,456	22
23	Interest Rate (BOA Prime minus 200 bp)	1.25%	1.25%	1.25%	1.25%	1.25%	23
24	Interest Applied	(\$1,417)	(\$1,281)	(\$1,056)	(\$456)	\$43	24
25	Storage Fixed Ending Balance	(\$1,137,242)	(\$1,277,032)	(\$713,885)	(\$175,056)	\$256,010	25
<u>III. Variable Supply Cost Deferred</u>							
26	Beginning Balance	\$17,535,102	\$14,983,728	\$12,125,403	\$11,369,138	\$10,761,502	26
27	Variable Supply Costs	\$4,668,653	\$2,978,384	\$5,196,861	\$5,843,800	\$11,250,462	27
28	Variable Delivery Storage	\$0	\$0	\$0	\$0	\$0	28

National Grid
Rhode Island - Gas

Gas Cost Recovery (GCR)
Fixed Cost Calculation (\$ per Dth)

Line		Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Line
<u>No.</u>		30	31	31	30	31	<u>No.</u>
		actual	actual	fcst	fcst	fcst	
29	Variable Injections Storage	(\$13,932)	(\$8,143)	(\$7,185)	(\$361)	(\$9,372)	29
30	Fuel Cost Allocated to Storage	(\$74,192)	(\$39,785)	(\$31,783)	(\$2,757)	(\$52,733)	30
31	Working Capital	\$34,065	\$21,793	\$38,358	\$43,436	\$83,206	31
32	Total Supply Variable Costs	\$4,614,594	\$2,952,250	\$5,196,251	\$5,884,119	\$11,271,562	32
33	Supply Variable - Collections	\$7,191,128	\$5,836,080	\$5,964,982	\$6,503,117	\$8,639,485	33
34	Customer Deferred Responsibility	(\$8,464)	(\$11,123)	\$0	\$0	\$0	34
35	Prelim. Ending Balance	\$14,967,032	\$12,111,021	\$11,356,673	\$10,750,140	\$13,393,580	35
36	Month's Average Balance	\$16,251,067	\$13,547,374	\$11,741,038	\$11,059,639	\$12,077,541	36
37	Interest Rate (BOA Prime minus 200 bp	1.25%	1.25%	1.25%	1.25%	1.25%	37
38	Interest Applied	\$16,696	\$14,382	\$12,465	\$11,363	\$12,822	38
39	Gas Procurement Incentive/(penalty)	\$0	\$0	\$0	\$0	\$0	
40	Supply Variable Ending Balance	\$14,983,728	\$12,125,403	\$11,369,138	\$10,761,502	\$13,406,402	40

National Grid
Rhode Island - Gas

Gas Cost Recovery (GCR)
Fixed Cost Calculation (\$ per Dth)

Line No.		Jun-10 30 actual	Jul-10 31 actual	Aug-10 31 fcst	Sep-10 30 fcst	Oct-10 31 fcst	Line No.
	<u>IVa. Storage Variable Product Cost Deferred</u>						
41	Beginning Balance	(\$1,778,549)	(\$1,502,844)	(\$1,195,826)	(\$919,339)	(\$656,882)	41
42	Storage Variable Prod. Costs - LNG	\$152,156	\$125,679	\$112,034	\$107,700	\$111,215	42
43	Storage Variable Prod. Costs - LP	\$0	\$0	\$0	\$0	\$0	43
44	Storage Variable Prod. Costs - UG	\$86,591	\$170,997	(\$690,413)	\$0	\$0	44
45	Supply Related LNG to DAC	(\$25,562)	(\$101,011)	(\$18,822)	(\$18,094)	(\$18,684)	45
46	Supply Related LNG O & M	\$35,844	\$35,844	\$35,844	\$35,844	\$35,844	46
47	Inventory Financing - LNG	\$44,153	\$44,244	\$39,286	\$39,116	\$38,942	47
48	Inventory Financing - UG	\$216,366	\$226,970	\$306,594	\$307,945	\$307,945	48
49	Inventory Financing - LP	\$0	\$0	\$0	\$0	\$0	49
50	Working Capital	\$1,852	\$1,722	(\$4,175)	\$933	\$955	50
51	Total Storage Variable Product Costs	\$508,844	\$496,285	(\$219,652)	\$473,444	\$476,216	51
52	Storage Variable Product Collections	\$231,454	\$187,835	\$192,785	\$210,178	\$279,224	52
53	Prelim. Ending Balance	(\$1,501,159)	(\$1,194,394)	(\$1,608,263)	(\$656,072)	(\$459,890)	53
54	Month's Average Balance	(\$1,639,854)	(\$1,348,619)	(\$1,402,044)	(\$787,706)	(\$558,386)	54
55	Interest Rate (BOA Prime minus 200 bp	1.25%	1.25%	1.25%	1.25%	1.25%	55
56	Interest Applied	(\$1,685)	(\$1,432)	(\$1,488)	(\$809)	(\$593)	56
57	Storage Variable Product Ending Bal.	(\$1,502,844)	(\$1,195,826)	(\$919,339)	(\$656,882)	(\$460,482)	57
	<u>IVb. Stor Var Non-Prod Cost Deferred</u>						
58	Beginning Balance	(\$2,277,627)	(\$2,159,310)	(\$2,078,279)	(\$1,988,658)	(\$1,930,757)	58
59	Storage Variable Non-prod. Costs	\$2,557	\$8,161	\$0	\$0	\$0	59
60	Variable Delivery Storage Costs	\$687	\$2,201	\$0	\$0	\$0	60
61	Variable Injection Storage Costs	\$10,301	\$3,844	\$7,185	\$361	\$9,372	61
62	Fuel Costs Allocated to Storage	\$41,793	\$17,253	\$31,783	\$2,757	\$52,733	62
63	Working Capital	\$412	\$234	\$290	\$23	\$462	63
64	Total Storage Var Non-product Costs	\$55,749	\$31,693	\$39,258	\$3,141	\$62,568	64
65	Storage Var Non-Product Collections	(\$64,846)	(\$51,587)	(\$52,521)	(\$56,772)	(\$75,829)	65
66	Prelim. Ending Balance	(\$2,157,032)	(\$2,076,031)	(\$1,986,500)	(\$1,928,745)	(\$1,792,361)	66
67	Month's Average Balance	(\$2,217,330)	(\$2,117,671)	(\$2,032,389)	(\$1,958,701)	(\$1,861,559)	67
68	Interest Rate (BOA Prime minus 200 bp	1.25%	1.25%	1.25%	1.25%	1.25%	68
69	Interest Applied	(\$2,278)	(\$2,248)	(\$2,158)	(\$2,012)	(\$1,976)	69
70	Storage Var Non-Product Ending Bal.	(\$2,159,310)	(\$2,078,279)	(\$1,988,658)	(\$1,930,757)	(\$1,794,337)	70

National Grid
Rhode Island - Gas

Gas Cost Recovery (GCR)
Fixed Cost Calculation (\$ per Dth)

		Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	
		30	31	31	30	31	
Line		actual	actual	fcst	fcst	fcst	Line
No.		-----	-----	-----	-----	-----	No.
<u>GCR Deferred Summary</u>							
71	Beginning Balance	\$813,383	(\$81,189)	(\$906,903)	\$194,686	\$2,006,384	71
72	Gas Costs	\$7,766,374	\$6,231,899	\$8,308,169	\$9,641,835	\$15,052,509	72
73	Working Capital	\$55,820	\$44,329	\$59,214	\$69,124	\$109,363	73
74	Total Costs	\$7,822,194	\$6,276,228	\$8,367,384	\$9,710,959	\$15,161,873	74
75	Collections	\$8,516,545	\$6,900,795	\$7,064,790	\$7,700,494	\$10,245,443	75
76	Prelim. Ending Balance	\$119,031	(\$705,756)	\$395,691	\$2,205,151	\$6,922,813	76
77	Month's Average Balance	\$466,207	(\$393,473)	(\$255,606)	\$1,199,919	\$4,464,599	77
78	Interest Rate (BOA Prime minus 200 bp	1.25%	1.25%	1.25%	1.25%	1.25%	78
79	Interest Applied	(\$221)	(\$1,146)	(\$1,004)	\$1,233	\$4,740	79
80	Gas Purchase Plan Incentives/(Penaltie	\$0	\$0	\$0	\$0	\$0	80
81	NGPMP Credit	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	
82	Ending Bal. W/ Interest	(\$81,189)	(\$906,903)	\$194,686	\$2,006,384	\$6,727,553	82
83	Under/(Over)-collection	(\$694,351)	(\$624,567)	\$1,302,593	\$2,010,465	\$4,916,429	83

National Grid
Rhode Island - Gas

Gas Cost Recovery (GCR)
Fixed Cost Calculation (\$ per Dth)

Line No.	Description (a)	Reference (b)	Amount (c)	Line No.	Description (a)	Reference (b)	Amount (c)	Line No.	Description (a)	Reference (b)	Amount (c)	Line No.
1	Supply Fixed Costs (net of Cap Rel	EDA-1	\$27,527,751	1	Supply Variable Costs	EDA-1	\$147,816,198	1	Storage Variable Non-Product Costs	EDA-1	\$715,645	1
2	Capacity Release Revenue		\$0	2	Credits		\$325,199	2	Credits		\$0	2
3	Allowable Working Capital Costs	(1) - (2)	\$27,527,751	3	Allowable Working Capital Costs	(1) - (2)	\$147,490,999	3	Allowable Working Capital Costs	(1) - (2)	\$715,645	3
4	Number of Days Lag	Docket 3943	24.40	4	Number of Days Lag	Docket 3943	24.40	4	Number of Days Lag	Docket 3943	24.40	4
5	Working Capital Requirement	[(3) x (4)] / 365	\$1,840,211	5	Working Capital Requirement	[(3) x (4)] / 365	\$9,859,672	5	Working Capital Requirement	[(3) x (4)] / 365	\$47,840	5
6	Cost of Capital	Docket 4196	7.47%	6	Cost of Capital	Docket 4196	7.47%	6	Cost of Capital	Docket 4196	7.47%	6
7	Return on Working Capital Requirement	(5) x (6)	\$137,387	7	Return on Working Capital Requirement	(5) x (6)	\$736,108	7	Return on Working Capital Requirement	(5) x (6)	\$3,572	7
8	Weighted Cost of Debt	Docket 4196	2.46%	8	Weighted Cost of Debt	Docket 4196	2.46%	8	Weighted Cost of Debt	Docket 4196	2.46%	8
9	Interest Expense	(5) x (8)	\$45,201	9	Interest Expense	(5) x (8)	\$242,182	9	Interest Expense	(5) x (8)	\$1,175	9
10	Taxable Income	(7) - (9)	\$92,186	10	Taxable Income	(7) - (9)	\$493,925	10	Taxable Income	(7) - (9)	\$2,397	10
11	1 - Combined Tax Rate	Docket 3943	0.6500	11	1 - Combined Tax Rate	Rate Case	0.6500	11	1 - Combined Tax Rate	Docket 3943	0.6500	11
12	Return and Tax Requirement	(10) / (11)	\$141,825	12	Return and Tax Requirement	(10) / (11)	\$759,885	12	Return and Tax Requirement	(10) / (11)	\$3,687	12
13	Supply Fixed Working Capital Requirement	(9) + (12)	\$187,026	13	Supply Variable Working Capital Requirement	(9) + (12)	\$1,002,067	13	Storage Variable Non-product WC Requir.	(9) + (12)	\$4,862	13
14	Storage Fixed Costs	EDA-1	\$9,483,439	14	Storage Variable Product Costs	EDA-1	\$23,129,946	14	Working Capital Factor		0.68%	
15	Less: LNG Demand to DAC		(\$330,100)	15	Less: Balancing Related LNG Commodity (to DAC)		\$0	15				
16	Less: Credits		\$0	16	Plus: Supply Related LNG O&M Costs		\$430,129	16				
17	Plus: Supply Related LNG O&M Costs		\$618,591	17	Allowable Working Capital Costs	(14) + (15) + (16)	\$23,560,075	17				
18	Allowable Working Capital Costs	(14)-(15)+(16)+(17)	\$9,771,930	18	Number of Days Lag	Docket 3943	24.40	18				
19	Number of Days Lag	Docket 3943	24.40	19	Working Capital Requirement	[(17) * (18)] / 365	\$1,574,975	19				
20	Working Capital Requirement	[(18) x (19)] / 365	\$653,247	20	Cost of Capital	Docket 4196	7.47%	20				
21	Cost of Capital	Docket 4196	7.47%	21	Return on Working Capital Requirement	(19) x (20)	\$117,585	21				
22	Return on Working Capital Requirement	(20) x (21)	\$48,770	22	Weighted Cost of Debt	Docket 4196	2.46%	22				
23	Weighted Cost of Debt	Docket 4196	2.46%	23	Interest Expense	(19) x (22)	\$38,686	23				
24	Interest Expense	(20) x (23)	\$16,046	24	Taxable Income	(21) - (23)	\$78,899	24				
25	Taxable Income	(22) - (24)	\$32,725	25	1 - Combined Tax Rate	Rate Case	0.6500	25				
26	1 - Combined Tax Rate	Docket 3943	0.6500	26	Return and Tax Requirement	(24) / (25)	\$121,383	26				
27	Return and Tax Requirement	(25) / (26)	\$50,346	27	Storage Var. Product Working Capital Requir.	(23) + (26)	\$160,069	27				
28	Storage Fixed Working Capital Requirement	(24) + (27)	\$66,391	28								

National Grid
Rhode Island - Gas

Gas Cost Recovery (GCR)
Fixed Cost Calculation (\$ per Dth)

Line No.	Description (a)	Nov-10 (c)	Dec-10 (d)	Jan-11 (e)	Feb-11 (f)	Mar-11 (g)	Apr-11 (h)	May-11 (i)	Jun-11 (j)	Jul-11 (k)	Aug-11 (l)	Sep-11 (m)	Oct-11 (n)	Total (p)	Line No.
1	Storage Inventory Balance	\$23,678,819	\$20,322,012	\$13,678,244	\$8,537,946	\$7,645,122	\$11,597,943	\$15,657,328	\$19,556,035	\$21,998,315	\$24,331,900	\$25,355,458	\$25,445,792		1
2	Hedging														
3	Subtotal	\$23,678,819	\$20,322,012	\$13,678,244	\$8,537,946	\$7,645,122	\$11,597,943	\$15,657,328	\$19,556,035	\$21,998,315	\$24,331,900	\$25,355,458	\$25,445,792		
4	Cost of Capital	7.47%	7.47%	7.47%	7.47%	7.47%	7.47%	7.47%	7.47%	7.47%	7.47%	7.47%	7.47%		2
5	Return on Working Capital Requirement	\$1,767,824	\$1,517,210	\$1,021,196	\$637,430	\$570,773	\$865,884	\$1,168,952	\$1,460,023	\$1,642,360	\$1,816,582	\$1,892,999	\$1,899,743	\$16,260,973	3
6	Weighted Cost of Debt	2.46%	2.46%	2.46%	2.46%	2.46%	2.46%	2.46%	2.46%	2.46%	2.46%	2.46%	2.46%		4
7	Interest Charges Financed	\$581,621	\$499,168	\$335,978	\$209,717	\$187,787	\$284,879	\$384,590	\$480,354	\$540,343	\$597,663	\$622,804	\$625,023	\$5,349,927	5
8	Taxable Income	\$1,186,202	\$1,018,041	\$685,218	\$427,713	\$382,986	\$581,005	\$784,362	\$979,669	\$1,102,017	\$1,218,919	\$1,270,194	\$1,274,720		6
9	1 - Combined Tax Rate	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500		7
10	Return and Tax Requirement	\$1,824,927	\$1,566,217	\$1,054,182	\$658,019	\$589,210	\$893,853	\$1,206,710	\$1,507,184	\$1,695,410	\$1,875,260	\$1,954,145	\$1,961,107	\$16,786,225	8
11	Working Capital Requirement	\$2,406,548	\$2,065,386	\$1,390,160	\$867,736	\$776,996	\$1,178,733	\$1,591,300	\$1,987,537	\$2,235,753	\$2,472,922	\$2,576,950	\$2,586,130	\$22,136,152	9
12	Monthly Average	\$200,546	\$172,115	\$115,847	\$72,311	\$64,750	\$98,228	\$132,608	\$165,628	\$186,313	\$206,077	\$214,746	\$215,511	\$1,844,679	10
13	LNG Inventory Balance	\$6,078,502	\$5,390,142	\$5,259,313	\$5,141,232	\$5,010,403	\$5,431,651	\$5,869,189	\$5,949,681	\$5,942,291	\$5,935,918	\$5,930,339	\$5,926,231		11
14	Cost of Capital	7.47%	7.47%	7.47%	7.47%	7.47%	7.47%	7.47%	7.47%	7.47%	7.47%	7.47%	7.47%		12
15	Return on Working Capital Requirement	\$453,811	\$402,420	\$392,652	\$383,836	\$374,069	\$405,519	\$438,184	\$444,194	\$443,642	\$443,166	\$442,750	\$442,443	\$5,066,687	13
16	Weighted Cost of Debt	2.46%	2.46%	2.46%	2.46%	2.46%	2.46%	2.46%	2.46%	2.46%	2.46%	2.46%	2.46%		14
17	Interest Charges Financed	\$149,306	\$132,398	\$129,184	\$126,284	\$123,070	\$133,417	\$144,164	\$146,142	\$145,960	\$145,804	\$145,667	\$145,566	\$1,666,961	15
18	Taxable Income	\$304,506	\$270,022	\$263,468	\$257,553	\$250,999	\$272,101	\$294,020	\$298,052	\$297,682	\$297,363	\$297,083	\$296,878		16
19	1 - Combined Tax Rate	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500		17
20	Return and Tax Requirement	\$468,470	\$415,418	\$405,335	\$396,235	\$386,152	\$418,617	\$452,338	\$458,542	\$457,972	\$457,481	\$457,051	\$456,735	\$5,230,347	18
21	Working Capital Requirement	\$617,776	\$547,816	\$534,519	\$522,518	\$509,222	\$552,035	\$596,503	\$604,684	\$603,932	\$603,285	\$602,718	\$602,300	\$6,897,308	19
22	Monthly Average	\$51,481	\$45,651	\$44,543	\$43,543	\$42,435	\$46,003	\$49,709	\$50,390	\$50,328	\$50,274	\$50,226	\$50,192	\$574,776	20
23	System Balancing Factor	16.80%	16.80%	16.80%	16.80%	16.80%	16.80%	16.80%	16.80%	16.80%	16.80%	16.80%	16.80%		21
24	Balancing Related Inventory Costs	\$8,649	\$7,669	\$7,483	\$7,315	\$7,129	\$7,728	\$8,351	\$8,466	\$8,455	\$8,446	\$8,438	\$8,432	\$96,562	22
25	Supply Related Inventory Costs	\$42,832	\$37,982	\$37,060	\$36,228	\$35,306	\$38,274	\$41,358	\$41,925	\$41,873	\$41,828	\$41,788	\$41,759	\$478,213	23

National Grid
Rhode Island - Gas

Gas Cost Recovery (GCR)
Fixed Cost Calculation (\$ per Dth)

Line No.	Rate Class (a)	Nov-10 (b)	Dec-10 (c)	Jan-11 (d)	Feb-11 (e)	Mar-11 (f)	Apr-11 (g)	May-11 (h)	Jun-11 (i)	Jul-11 (j)	Aug-11 (k)	Sep-11 (l)	Oct-11 (m)	Total Nov-Oct (o)	Line No.
1	<u>SALES (dth)</u>														1
2	Residential Non-Heating	54,674	70,653	82,003	87,827	78,867	70,493	60,870	46,251	39,370	33,934	33,888	39,380	698,210	2
3	Residential Heating	1,104,878	2,046,100	2,750,982	2,917,818	2,636,773	1,990,787	1,114,772	639,475	404,535	324,025	378,664	506,454	16,815,263	3
4	Small C&I	117,722	232,014	356,367	380,345	326,862	224,723	116,333	61,244	58,320	40,721	20,031	51,998	1,986,681	4
5	Medium C&I	244,388	315,961	529,256	548,711	503,253	336,898	214,455	138,442	103,745	89,922	92,021	129,567	3,246,619	5
6	Large LLF	61,548	96,707	150,915	154,863	135,841	106,312	53,466	26,628	14,851	11,748	11,355	23,607	847,842	6
7	Large HLF	17,728	22,204	27,615	28,326	27,126	22,501	19,253	14,376	8,455	7,309	15,567	12,001	222,462	7
8	Extra Large LLF	17,718	28,155	82,505	39,855	38,476	24,008	11,344	15,383	(3,544)	1,762	2,395	6,312	264,369	8
9	Extra Large HLF	19,045	15,430	17,613	16,990	13,647	10,833	8,847	7,313	5,022	6,417	5,936	4,189	131,282	9
10	Total Sales	1,637,701	2,827,224	3,997,257	4,174,735	3,760,845	2,786,556	1,599,341	949,112	630,753	515,838	559,857	773,509	24,212,727	10
11	<u>FT-2 TRANSPORTATION</u>														11
12	FT-2 Medium	56,696	65,953	92,049	107,202	85,850	58,377	51,880	35,711	23,967	22,905	32,724	16,688	650,002	12
13	FT-2 Large LLF	32,512	72,572	99,776	100,446	88,009	83,930	45,184	25,420	3,935	5,355	9,636	14,181	580,956	13
14	FT-2 Large HLF	9,542	13,532	16,043	14,213	16,201	16,958	11,920	10,748	7,608	8,756	9,494	9,731	144,746	14
15	FT-2 Extra Large LLF	1,972	5,872	3,321	3,179	2,858	1,781	2,912	595	63	32	24	187	22,796	15
16	FT-2 Extra Large HLF	1,261	1,442	2,068	2,104	2,242	1,830	1,595	1,425	499	1,401	1,085	1,251	18,203	16
17	Total Transportation	101,983	159,371	213,257	227,144	195,160	162,876	113,491	73,899	36,072	38,449	52,963	42,038	1,416,703	17
18	<u>Sales & FT-2 THROUGHPUT</u>														18
19	Residential Non-Heating	54,674	70,653	82,003	87,827	78,867	70,493	60,870	46,251	39,370	33,934	33,888	39,380	698,210	19
20	Residential Heating	1,104,878	2,046,100	2,750,982	2,917,818	2,636,773	1,990,787	1,114,772	639,475	404,535	324,025	378,664	506,454	16,815,263	20
21	Small C&I	117,722	232,014	356,367	380,345	326,862	224,723	116,333	61,244	58,320	40,721	20,031	51,998	1,986,681	21
22	Medium C&I	301,084	381,914	621,305	655,913	589,103	395,275	266,335	174,153	127,712	112,827	124,745	146,255	3,896,621	22

National Grid
Rhode Island - Gas

Gas Cost Recovery (GCR)
Fixed Cost Calculation (\$ per Dth)

23	Large LLF	94,060	169,279	250,691	255,309	223,850	190,243	98,650	52,048	18,786	17,103	20,991	37,788	1,428,798	23
24	Large HLF	27,270	35,736	43,658	42,539	43,327	39,459	31,173	25,124	16,063	16,065	25,061	21,732	367,208	24
25	Extra Large LLF	19,690	34,027	85,826	43,034	41,334	25,789	14,256	15,978	(3,481)	1,794	2,419	6,499	287,165	25
26	Extra Large HLF	20,306	16,872	19,681	19,094	15,889	12,663	10,442	8,738	5,521	7,818	7,021	5,440	149,485	26
27	Total Throughput	1,739,684	2,986,595	4,210,514	4,401,879	3,956,004	2,949,432	1,712,832	1,023,011	666,825	554,287	612,820	815,546	25,629,430	27
28	FT-1 TRANSPORTATION														28
29	FT-1 Medium	59,235	89,018	95,102	100,863	73,343	50,034	27,726	27,854	22,232	26,900	4,746	40,243	617,294	29
30	FT-1 Large LLF	80,766	142,646	144,006	154,041	154,677	97,758	38,213	20,405	17,232	20,029	9,808	39,811	919,391	30
31	FT-1 Large HLF	50,907	60,737	65,001	56,681	59,848	58,635	38,431	41,580	32,835	42,113	41,786	51,791	600,344	31
32	FT-1 Extra Large LLF	44,775	68,688	88,230	102,397	77,283	58,306	19,835	31,650	12,580	14,403	(3,525)	23,828	538,450	32
33	FT-1 Extra Large HLF	293,250	338,027	371,107	366,513	366,181	376,346	276,843	274,240	257,648	264,590	303,987	289,930	3,778,661	33
34	Total Transportation	528,932	699,116	763,446	780,494	731,332	641,079	401,048	395,728	342,527	368,034	356,801	445,603	6,454,141	34
35	Total THROUGHPUT														35
36	Residential Non-Heating	54,674	70,653	82,003	87,827	78,867	70,493	60,870	46,251	39,370	33,934	33,888	39,380	698,210	36
37	Residential Heating	1,104,878	2,046,100	2,750,982	2,917,818	2,636,773	1,990,787	1,114,772	639,475	404,535	324,025	378,664	506,454	16,815,263	37
38	Small C&I	117,722	232,014	356,367	380,345	326,862	224,723	116,333	61,244	58,320	40,721	20,031	51,998	1,986,681	38
39	Medium C&I	360,318	470,932	716,407	756,775	662,446	445,309	294,061	202,007	149,943	139,727	129,491	186,498	4,513,915	39
40	Large LLF	174,826	311,925	394,697	409,350	378,527	288,000	136,863	72,453	36,018	37,131	30,799	77,599	2,348,189	40
41	Large HLF	78,177	96,473	108,659	99,221	103,174	98,094	69,605	66,704	48,898	58,178	66,847	73,523	967,552	41
42	Extra Large LLF	64,465	102,715	174,056	145,431	118,617	84,095	34,091	47,628	9,099	16,197	(1,106)	30,327	825,615	42
43	Extra Large HLF	313,556	354,899	390,788	385,607	382,070	389,009	287,285	282,978	263,168	272,408	311,008	295,370	3,928,147	43
44	Total Throughput	2,408,713	3,685,711	4,973,960	5,182,373	4,687,337	3,590,511	2,113,880	1,418,739	1,009,352	922,322	969,622	1,261,149	32,083,572	44

National Grid
Rhode Island - Gas

Gas Cost Recovery (GCR)
Fixed Cost Calculation (\$ per Dth)

Line No.	Rate Class (a)	Nov-10 (b)	Dec-10 (c)	Jan-11 (d)	Feb-11 (e)	Mar-11 (f)	Total (h)	% (i)	Line No.
1	<u>SALES (dth)</u>								1
2	Residential Non-Heating	62,142	87,267	92,619	86,727	77,017	405,772	2.18%	2
3	Residential Heating	1,679,470	2,865,969	3,128,414	2,976,258	2,363,319	13,013,430	69.99%	3
4	Small C&I	205,381	355,107	388,276	369,733	291,579	1,610,076	8.66%	4
5	Medium C&I	322,044	528,755	574,251	544,784	441,621	2,411,455	12.97%	5
6	Large LLF	85,878	151,840	166,488	158,781	123,784	686,771	3.69%	6
7	Large HLF	20,032	29,046	30,983	29,096	25,335	134,493	0.72%	7
8	Extra Large LLF	28,309	53,427	59,039	56,546	42,679	240,000	1.29%	8
9	Extra Large HLF	13,093	19,863	21,333	20,112	17,047	91,448	0.49%	9
10	Total Sales	2,416,349	4,091,273	4,461,402	4,242,038	3,382,381	18,593,444	100.00%	10
11	<u>FT-2 TRANSPORTATION</u>								11
12	FT-2 Medium	63,910	98,440	105,961	100,022	84,034	452,368		12
13	FT-2 Large LLF	55,693	100,084	109,958	104,983	81,172	451,891		13
14	FT-2 Large HLF	12,163	15,697	16,423	15,251	14,306	73,840		14
15	FT-2 Extra Large LLF	2,363	4,440	4,904	4,696	3,552	19,954		15
16	FT-2 Extra Large HLF	1,553	2,094	2,208	2,059	1,877	9,791		16
17	Total Transportation	135,683	220,755	239,454	227,011	184,941	1,007,843		17
18	<u>Sales & FT-2 THROUGHPUT</u>								18

National Grid
Rhode Island - Gas

Gas Cost Recovery (GCR)
Fixed Cost Calculation (\$ per Dth)

19	Residential Non-Heating	62,142	87,267	92,619	86,727	77,017	405,772	2.07%	19
20	Residential Heating	1,679,470	2,865,969	3,128,414	2,976,258	2,363,319	13,013,430	66.39%	20
21	Small C&I	205,381	355,107	388,276	369,733	291,579	1,610,076	8.21%	21
22	Medium C&I	385,955	627,195	680,212	644,806	525,655	2,863,822	14.61%	22
23	Large LLF	141,571	251,923	276,446	263,764	204,957	1,138,661	5.81%	23
24	Large HLF	32,195	44,743	47,407	44,347	39,641	208,333	1.06%	24
25	Extra Large LLF	30,672	57,867	63,943	61,241	46,230	259,954	1.33%	25
26	Extra Large HLF	14,646	21,957	23,541	22,172	18,923	101,239	0.52%	26
27	Total Throughput	2,552,031	4,312,028	4,700,857	4,469,049	3,567,322	19,601,287	100.00%	27

Gas Cost Recovery (GCR) Filing
Projected Gas Cost Balances

	Nov-10 30 forecast -----	Dec-10 31 forecast -----	Jan-11 31 forecast -----	Feb-11 28 forecast -----	Mar-11 31 forecast -----	Apr-11 30 forecast -----	May-11 31 forecast -----	Jun-11 30 forecast -----
<u>I. Supply Fixed Cost Deferred</u>								
Beginning Balance	(\$4,680,040)	(\$3,966,160)	(\$4,271,344)	(\$5,582,004)	(\$7,049,341)	(\$8,160,838)	(\$8,438,705)	(\$7,696,246)
Supply Fixed Costs (net of cap rel)	\$2,294,431	\$2,295,832	\$2,294,590	\$2,290,385	\$2,294,590	\$2,293,188	\$2,294,590	\$2,293,188
Capacity Release	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Working Capital	<u>\$15,589</u>	<u>\$15,598</u>	<u>\$15,590</u>	<u>\$15,561</u>	<u>\$15,590</u>	<u>\$15,580</u>	<u>\$15,590</u>	<u>\$15,580</u>
Total Supply Fixed Costs	\$2,310,019	\$2,311,430	\$2,310,179	\$2,305,946	\$2,310,179	\$2,308,768	\$2,310,179	\$2,308,768
Supply Fixed - Collections	\$1,391,802	\$2,412,351	\$3,415,718	\$3,567,325	\$3,213,713	\$2,378,216	\$1,359,266	\$803,700
Prelim. Ending Balance	(\$3,761,823)	(\$4,067,080)	(\$5,376,883)	(\$6,843,383)	(\$7,952,874)	(\$8,230,285)	(\$7,487,792)	(\$6,191,178)
Month's Average Balance	(\$4,220,932)	(\$4,016,620)	(\$4,824,114)	(\$6,212,694)	(\$7,501,107)	(\$8,195,562)	(\$7,963,249)	(\$6,943,712)
Interest Rate (BOA Prime minus 200 bps)	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%
Interest Applied	(\$4,337)	(\$4,264)	(\$5,121)	(\$5,957)	(\$7,964)	(\$8,420)	(\$8,454)	(\$7,134)
GPIP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
NGPMP Credits	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000
Supply Fixed Ending Balance	(\$3,966,160)	(\$4,271,344)	(\$5,582,004)	(\$7,049,341)	(\$8,160,838)	(\$8,438,705)	(\$7,696,246)	(\$6,398,312)
<u>II. Storage Fixed Cost Deferred</u>								
Beginning Balance	\$256,010	\$419,267	\$7,272	(\$969,759)	(\$2,035,535)	(\$2,897,850)	(\$3,296,465)	(\$3,124,606)
Storage Fixed Costs	\$954,537	\$954,537	\$954,537	\$954,537	\$954,537	\$954,537	\$954,537	\$954,537
LNG Demand to DAC	(\$55,102)	(\$55,102)	(\$55,102)	(\$55,102)	(\$55,102)	(\$55,102)	(\$55,102)	(\$55,102)
Supply Related LNG O & M	\$51,549	\$51,549	\$51,549	\$51,549	\$51,549	\$51,549	\$51,549	\$51,549
Working Capital	<u>\$6,461</u>	<u>\$6,461</u>	<u>\$6,461</u>	<u>\$6,461</u>	<u>\$6,461</u>	<u>\$6,461</u>	<u>\$6,461</u>	<u>\$6,461</u>
Total Storage Fixed Costs	\$957,445	\$957,445	\$957,445	\$957,445	\$957,445	\$957,445	\$957,445	\$957,445
TSS Peaking Collections	\$0	\$0	\$1	\$2	\$3	\$4	\$5	\$6
Storage Fixed - Collections	\$794,535	\$1,369,666	\$1,933,964	\$2,021,778	\$1,817,139	\$1,352,876	\$782,173	\$465,423
Prelim. Ending Balance	\$418,920	\$7,045	(\$969,249)	(\$2,034,095)	(\$2,895,232)	(\$3,293,285)	(\$3,121,199)	(\$2,632,590)
Month's Average Balance	\$337,465	\$213,156	(\$480,989)	(\$1,501,927)	(\$2,465,384)	(\$3,095,567)	(\$3,208,832)	(\$2,878,598)
Interest Rate (BOA Prime minus 200 bps)	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%
Interest Applied	\$347	\$226	(\$511)	(\$1,440)	(\$2,617)	(\$3,180)	(\$3,407)	(\$2,957)
Storage Fixed Ending Balance	\$419,267	\$7,272	(\$969,759)	(\$2,035,535)	(\$2,897,850)	(\$3,296,465)	(\$3,124,606)	(\$2,635,547)
<u>III. Variable Supply Cost Deferred</u>								
Beginning Balance	\$13,406,402	\$19,207,488	\$22,466,459	\$19,497,698	\$12,738,076	\$9,878,828	\$3,307,945	(\$615,672)
Variable Supply Costs	\$16,627,592	\$22,001,510	\$23,590,347	\$21,011,154	\$22,138,394	\$11,982,989	\$6,728,829	\$4,568,171
Variable Delivery Storage	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Variable Injections Storage	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Fuel Cost Allocated to Storage	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Working Capital	<u>\$112,969</u>	<u>\$149,480</u>	<u>\$160,275</u>	<u>\$142,752</u>	<u>\$150,410</u>	<u>\$81,414</u>	<u>\$45,716</u>	<u>\$31,037</u>
Total Supply Variable Costs	\$16,740,562	\$22,150,991	\$23,750,622	\$21,153,906	\$22,288,804	\$12,064,402	\$6,774,545	\$4,599,207
Supply Variable - Collections	\$10,956,221	\$18,914,129	\$26,741,646	\$27,928,976	\$25,160,051	\$18,642,056	\$10,699,591	\$6,349,561
Deferred Responsibility	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Prelim. Ending Balance	\$19,190,743	\$22,444,350	\$19,475,435	\$12,722,628	\$9,866,829	\$3,301,175	(\$617,101)	(\$2,366,026)
Month's Average Balance	\$16,298,572	\$20,825,919	\$20,970,947	\$16,110,163	\$11,302,453	\$6,590,002	\$1,345,422	(\$1,490,849)
Interest Rate (BOA Prime minus 200 bps)	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%
Interest Applied	\$16,745	\$22,110	\$22,264	\$15,448	\$11,999	\$6,771	\$1,428	(\$1,532)
Gas Procurement Incentive/(penalty)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Supply Variable Ending Balance	\$19,207,488	\$22,466,459	\$19,497,698	\$12,738,076	\$9,878,828	\$3,307,945	(\$615,672)	(\$2,367,558)

Gas Cost Recovery (GCR) Filing
Projected Gas Cost Balances

	Nov-10 30 forecast -----	Dec-10 31 forecast -----	Jan-11 31 forecast -----	Feb-11 28 forecast -----	Mar-11 31 forecast -----	Apr-11 30 forecast -----	May-11 31 forecast -----	Jun-11 30 forecast -----
<u>I/a. Storage Variable Product Cost Deferred</u>								
Beginning Balance	(\$460,482)	(\$1,779,651)	\$528,077	\$5,434,863	\$8,117,664	\$5,640,929	\$3,025,327	\$1,682,865
Storage Variable Prod. Costs - LNG	\$126,411	\$688,360	\$130,829	\$118,081	\$130,829	\$126,132	\$129,483	\$123,770
Storage Variable Prod. Costs - LP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Storage Variable Prod. Costs - UG	\$0	\$4,396,327	\$8,703,454	\$6,729,191	\$1,173,912	\$0	\$0	\$0
Supply Related LNG to DAC	(\$21,237)	(\$115,645)	(\$21,979)	(\$19,838)	(\$21,979)	(\$21,190)	(\$21,753)	(\$20,793)
Supply Related LNG O & M	\$35,844	\$35,844	\$35,844	\$35,844	\$35,844	\$35,844	\$35,844	\$35,844
Inventory Financing - LNG	\$42,832	\$37,982	\$37,060	\$36,228	\$35,306	\$38,274	\$41,358	\$41,925
Inventory Financing - UG	\$200,546	\$172,115	\$115,847	\$72,311	\$64,750	\$98,228	\$132,608	\$165,628
Inventory Financing - LP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Working Capital	<u>\$958</u>	<u>\$34,004</u>	<u>\$60,115</u>	<u>\$46,630</u>	<u>\$8,959</u>	<u>\$957</u>	<u>\$975</u>	<u>\$943</u>
Total Storage Variable Product Costs	\$385,354	\$5,248,988	\$9,061,169	\$7,018,448	\$1,427,620	\$278,245	\$318,515	\$347,317
Storage Variable Product Collections	\$1,703,373	\$2,940,596	\$4,157,547	\$4,342,142	\$3,911,655	\$2,898,296	\$1,663,475	\$987,172
Prelim. Ending Balance	(\$1,778,501)	\$528,741	\$5,431,700	\$8,111,169	\$5,633,629	\$3,020,877	\$1,680,367	\$1,043,010
Month's Average Balance	(\$1,119,492)	(\$625,455)	\$2,979,888	\$6,773,016	\$6,875,647	\$4,330,903	\$2,352,847	\$1,362,938
Interest Rate (BOA Prime minus 200 bps)	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%
Interest Applied	(\$1,150)	(\$664)	\$3,164	\$6,495	\$7,299	\$4,450	\$2,498	\$1,400
Storage Variable Product Ending Bal.	(\$1,779,651)	\$528,077	\$5,434,863	\$8,117,664	\$5,640,929	\$3,025,327	\$1,682,865	\$1,044,410
<u>I/b. Stor Var Non-Prod Cost Deferred</u>								
Beginning Balance	(\$1,794,337)	(\$1,750,230)	(\$1,521,945)	(\$1,111,509)	(\$759,913)	(\$623,835)	(\$453,505)	(\$312,818)
Storage Variable Non-prod. Costs	\$0	\$150,155	\$298,646	\$234,688	\$32,156	\$0	\$0	\$0
Variable Delivery Storage Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Variable Injection Storage Costs	\$0	\$0	\$0	\$0	\$0	\$16,017	\$16,277	\$15,579
Fuel Costs Allocated to Storage	\$0	\$0	\$0	\$0	\$0	\$76,374	\$78,950	\$74,381
Working Capital	\$0	<u>\$1,020</u>	<u>\$2,029</u>	<u>\$1,594</u>	<u>\$218</u>	<u>\$628</u>	<u>\$647</u>	<u>\$611</u>
Total Storage Var Non-product Costs	\$0	\$151,175	\$300,675	\$236,283	\$32,375	\$93,018	\$95,875	\$90,571
Storage Var Non-Product Collections	(\$45,927)	(\$78,846)	(\$111,158)	(\$116,210)	(\$104,438)	(\$77,865)	(\$45,219)	(\$27,008)
Prelim. Ending Balance	(\$1,748,410)	(\$1,520,209)	(\$1,110,112)	(\$759,017)	(\$623,101)	(\$452,952)	(\$312,411)	(\$195,238)
Month's Average Balance	(\$1,771,373)	(\$1,635,219)	(\$1,316,028)	(\$935,263)	(\$691,507)	(\$538,393)	(\$382,958)	(\$254,028)
Interest Rate (BOA Prime minus 200 bps)	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%
Interest Applied	(\$1,820)	(\$1,736)	(\$1,397)	(\$897)	(\$734)	(\$553)	(\$407)	(\$261)
Storage Var Non-Product Ending Bal.	(\$1,750,230)	(\$1,521,945)	(\$1,111,509)	(\$759,913)	(\$623,835)	(\$453,505)	(\$312,818)	(\$195,499)
<u>GCR Deferred Summary</u>								
Beginning Balance	\$6,727,553	\$12,130,714	\$17,208,519	\$17,269,290	\$11,010,954	\$3,837,241	(\$5,855,393)	(\$10,066,462)
Gas Costs	\$20,257,403	\$30,613,466	\$36,135,620	\$31,459,029	\$26,834,785	\$15,596,839	\$10,387,170	\$8,248,676
Working Capital	\$135,977	\$206,563	\$244,470	\$212,998	\$181,638	\$105,039	\$69,389	\$54,632
Total Costs	\$20,393,380	\$30,820,029	\$36,380,090	\$31,672,027	\$27,016,423	\$15,701,878	\$10,456,559	\$8,303,308
Collections	\$14,800,004	\$25,557,896	\$36,137,717	\$37,744,011	\$33,998,120	\$25,193,579	\$14,459,286	\$8,578,848
Prelim. Ending Balance	\$12,320,929	\$17,392,847	\$17,450,892	\$11,197,306	\$4,029,257	(\$5,654,460)	(\$9,858,121)	(\$10,342,001)
Month's Average Balance	\$9,524,241	\$14,761,781	\$17,329,705	\$14,233,298	\$7,520,106	(\$908,610)	(\$7,856,757)	(\$10,204,231)
Interest Rate (BOA Prime minus 200 bps)	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%
Interest Applied	\$9,785	\$15,672	\$18,398	\$13,648	\$7,984	(\$934)	(\$8,341)	(\$10,484)
Gas Purchase Plan Incentives/(Penalties)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
NGPMP Credits	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000
Ending Bal. W/ Interest	\$12,130,714	\$17,208,519	\$17,269,290	\$11,010,954	\$3,837,241	(\$5,855,393)	(\$10,066,462)	(\$10,552,485)
Under/(Over)-collection	\$5,593,376	\$5,262,133	\$242,373	(\$6,071,984)	(\$6,981,697)	(\$9,491,701)	(\$4,002,727)	(\$275,540)

Gas Cost Recovery (GCR) Filing
Projected Gas Cost Balances

	Jul-11 31 forecast -----	Aug-11 31 forecast -----	Sep-11 30 forecast -----	Oct-11 31 forecast -----	Nov - Oct 365 -----
<u>I. Supply Fixed Cost Deferred</u>					
Beginning Balance	(\$6,398,312)	(\$4,826,602)	(\$3,155,274)	(\$1,519,909)	
Supply Fixed Costs (net of cap rel)	\$2,294,590	\$2,294,590	\$2,293,188	\$2,294,590	\$27,527,751
Capacity Release	\$0	\$0	\$0	\$0	\$0
Working Capital	<u>\$15,590</u>	<u>\$15,590</u>	<u>\$15,580</u>	<u>\$15,590</u>	\$187,026
Total Supply Fixed Costs	\$2,310,179	\$2,310,179	\$2,308,768	\$2,310,179	\$27,714,777
Supply Fixed - Collections	\$532,620	\$434,723	\$471,106	\$654,962	\$20,635,502
Prelim. Ending Balance	(\$4,620,752)	(\$2,951,145)	(\$1,317,612)	\$135,308	
Month's Average Balance	(\$5,509,532)	(\$3,888,873)	(\$2,236,443)	(\$692,301)	
Interest Rate (BOA Prime minus 200 bp)	1.25%	1.25%	1.25%	1.25%	
Interest Applied	(\$5,849)	(\$4,129)	(\$2,298)	(\$735)	(\$64,662)
GPIP	\$0	\$0	\$0	\$0	
NGPMP Credits	\$200,000	\$200,000	\$200,000	\$200,000	
Supply Fixed Ending Balance	(\$4,826,602)	(\$3,155,274)	(\$1,519,909)	(\$65,427)	
<u>II. Storage Fixed Cost Deferred</u>					
Beginning Balance	(\$2,635,547)	(\$1,983,188)	(\$1,278,484)	(\$599,047)	
Storage Fixed Costs	\$954,537	\$954,537	\$954,537	\$954,537	\$11,454,439
LNG Demand to DAC	(\$55,102)	(\$55,102)	(\$55,102)	(\$55,102)	(\$661,228)
Supply Related LNG O & M	\$51,549	\$51,549	\$51,549	\$51,549	\$618,591
Working Capital	<u>\$6,461</u>	<u>\$6,461</u>	<u>\$6,461</u>	<u>\$6,461</u>	<u>\$77,533</u>
Total Storage Fixed Costs	\$957,445	\$957,445	\$957,445	\$957,445	\$11,489,335
TSS Peaking Collections	\$7	\$8	\$9	\$10	
Storage Fixed - Collections	\$302,628	\$251,002	\$277,035	\$371,160	\$11,739,379
Prelim. Ending Balance	(\$1,980,738)	(\$1,276,754)	(\$598,083)	(\$12,773)	
Month's Average Balance	(\$2,308,143)	(\$1,629,971)	(\$938,284)	(\$305,910)	
Interest Rate (BOA Prime minus 200 bp)	1.25%	1.25%	1.25%	1.25%	
Interest Applied	(\$2,450)	(\$1,730)	(\$964)	(\$325)	(\$19,009)
Storage Fixed Ending Balance	(\$1,983,188)	(\$1,278,484)	(\$599,047)	(\$13,098)	
<u>III. Variable Supply Cost Deferred</u>					
Beginning Balance	(\$2,367,558)	(\$2,676,101)	(\$2,189,171)	(\$1,764,607)	
Variable Supply Costs	\$3,887,457	\$3,913,878	\$4,143,886	\$6,969,779	\$147,563,985
Variable Delivery Storage	\$0	\$0	\$0	\$0	\$0
Variable Injections Storage	\$0	\$0	\$0	\$0	\$0
Fuel Cost Allocated to Storage	\$0	\$0	\$0	\$0	\$0
Working Capital	<u>\$26,412</u>	<u>\$26,591</u>	<u>\$28,154</u>	<u>\$47,353</u>	\$1,002,563
Total Supply Variable Costs	\$3,913,869	\$3,940,469	\$4,172,040	\$7,017,132	\$148,566,549
Supply Variable - Collections	\$4,219,737	\$3,450,958	\$3,745,446	\$5,174,773	\$161,983,145
Deferred Responsibility	\$0	\$0	\$0	\$0	
Prelim. Ending Balance	(\$2,673,425)	(\$2,186,590)	(\$1,762,577)	\$77,752	
Month's Average Balance	(\$2,520,492)	(\$2,431,346)	(\$1,975,874)	(\$843,428)	
Interest Rate (BOA Prime minus 200 bp)	1.25%	1.25%	1.25%	1.25%	
Interest Applied	(\$2,676)	(\$2,581)	(\$2,030)	(\$895)	\$87,050
Gas Procurement Incentive/(penalty)	\$0	\$0	\$0	\$0	\$0
Supply Variable Ending Balance	(\$2,676,101)	(\$2,189,171)	(\$1,764,607)	\$76,856	

Gas Cost Recovery (GCR) Filing
Projected Gas Cost Balances

	Jul-11 31 forecast -----	Aug-11 31 forecast -----	Sep-11 30 forecast -----	Oct-11 31 forecast -----	Nov - Oct 365 -----
<u>IVa. Storage Variable Product Cost Deferre</u>					
Beginning Balance	\$1,044,410	\$760,861	\$616,194	\$430,222	
Storage Variable Prod. Costs - LNG	\$128,056	\$127,897	\$123,174	\$127,640	\$2,080,662
Storage Variable Prod. Costs - LP	\$0	\$0	\$0	\$0	\$0
Storage Variable Prod. Costs - UG	\$0	\$0	\$0	\$0	\$21,002,885
Supply Related LNG to DAC	(\$21,513)	(\$21,487)	(\$20,693)	(\$21,443)	(\$349,551)
Supply Related LNG O & M	\$35,844	\$35,844	\$35,844	\$35,844	\$430,129
Inventory Financing - LNG	\$41,873	\$41,828	\$41,788	\$41,759	\$478,213
Inventory Financing - UG	\$186,313	\$206,077	\$214,746	\$215,511	\$1,844,679
Inventory Financing - LP	\$0	\$0	\$0	\$0	\$0
Working Capital	<u>\$967</u>	<u>\$966</u>	<u>\$940</u>	<u>\$965</u>	<u>\$157,379</u>
Total Storage Variable Product Costs	\$371,540	\$391,125	\$395,799	\$400,276	\$25,644,396
Storage Variable Product Collections	\$656,046	\$536,523	\$582,308	\$804,526	\$25,183,659
Prelim. Ending Balance	\$759,904	\$615,464	\$429,685	\$25,972	
Month's Average Balance	\$902,157	\$688,163	\$522,940	\$228,097	
Interest Rate (BOA Prime minus 200 bp)	1.25%	1.25%	1.25%	1.25%	
Interest Applied	\$958	\$731	\$537	\$242	\$25,959
Storage Variable Product Ending Bal.	\$760,861	\$616,194	\$430,222	\$26,214	
<u>IVb. Stor Var Non-Prod Cost Deferred</u>					
Beginning Balance	(\$195,499)	(\$127,713)	(\$65,229)	(\$29,805)	
Storage Variable Non-prod. Costs	\$0	\$0	\$0	\$0	\$715,645
Variable Delivery Storage Costs	\$0	\$0	\$0	\$0	\$0
Variable Injection Storage Costs	\$10,221	\$9,729	\$6,089	\$340	\$74,252
Fuel Costs Allocated to Storage	\$39,793	\$37,901	\$13,076	\$2,715	\$323,191
Working Capital	<u>\$340</u>	<u>\$324</u>	<u>\$130</u>	<u>\$21</u>	<u>\$7,562</u>
Total Storage Var Non-product Costs	\$50,353	\$47,954	\$19,295	\$3,076	\$1,120,650
Storage Var Non-Product Collections	(\$17,604)	(\$14,633)	(\$16,178)	(\$21,531)	(\$676,617)
Prelim. Ending Balance	(\$127,542)	(\$65,127)	(\$29,756)	(\$5,197)	
Month's Average Balance	(\$161,521)	(\$96,420)	(\$47,492)	(\$17,501)	
Interest Rate (BOA Prime minus 200 bp)	1.25%	1.25%	1.25%	1.25%	
Interest Applied	(\$171)	(\$102)	(\$49)	(\$19)	(\$8,146)
Storage Var Non-Product Ending Bal.	(\$127,713)	(\$65,229)	(\$29,805)	(\$5,216)	
<u>GCR Deferred Summary</u>					
Beginning Balance	(\$10,552,485)	(\$8,852,715)	(\$6,071,928)	(\$3,483,101)	
Gas Costs	\$7,553,616	\$7,597,240	\$7,802,081	\$10,617,719	\$213,103,644
Working Capital	\$49,770	\$49,932	\$51,265	\$70,390	\$1,432,064
Total Costs	\$7,603,386	\$7,647,172	\$7,853,347	\$10,688,108	\$214,535,708
Collections	\$5,693,427	\$4,658,573	\$5,059,717	\$6,983,890	\$218,865,068
Prelim. Ending Balance	(\$8,642,526)	(\$5,864,116)	(\$3,278,298)	\$221,117	
Month's Average Balance	(\$9,597,506)	(\$7,358,416)	(\$4,675,113)	(\$1,630,992)	
Interest Rate (BOA Prime minus 200 bp)	1.25%	1.25%	1.25%	1.25%	
Interest Applied	(\$10,189)	(\$7,812)	(\$4,803)	(\$1,732)	\$21,192
Gas Purchase Plan Incentives/(Penaltie	\$0	\$0	\$0	\$0	
NGPMP Credits	\$200,000	\$200,000	\$200,000	\$200,000	
Ending Bal. W/ Interest	(\$8,852,715)	(\$6,071,928)	(\$3,483,101)	\$19,385	
Under/(Over)-collection	\$1,909,959	\$2,988,599	\$2,793,630	\$3,704,218	

Bill Impact Analysis with Various Levels of Consumption:
Current Distribution, GCR, DAC and Energy Efficiency Rates vs. 2010-2011 Proposed GCR and DAC

Residential Heating:

Nov - Oct Consumption (Therms)	Proposed November-10	Current Rates	Difference	% Chg	Difference due to:				
					Base Rates	GCR	DAC	EnergyEff	
600	\$936	\$1,026	(\$90)	-8.7%	\$0	(\$102.58)	\$12.87	\$0.00	
664	\$1,020	\$1,119	(\$99)	-8.9%	\$0	(\$113.53)	\$14.24	\$0.00	
730	\$1,107	\$1,216	(\$109)	-9.0%	\$0	(\$124.80)	\$15.66	\$0.00	
794	\$1,189	\$1,307	(\$119)	-9.1%	\$0	(\$135.79)	\$16.97	\$0.00	
857	\$1,268	\$1,396	(\$128)	-9.2%	\$0	(\$146.54)	\$18.34	\$0.00	
Average Customer 922	\$1,348	\$1,486	(\$138)	-9.3%	\$0	(\$157.68)	\$19.75	\$0.00	
987	\$1,429	\$1,576	(\$148)	-9.4%	\$0	(\$168.78)	\$21.12	\$0.00	
1,051	\$1,508	\$1,665	(\$157)	-9.4%	\$0	(\$179.70)	\$22.50	\$0.00	
1,114	\$1,583	\$1,750	(\$167)	-9.5%	\$0	(\$190.50)	\$23.84	\$0.00	
1,180	\$1,663	\$1,839	(\$177)	-9.6%	\$0	(\$201.77)	\$25.24	\$0.00	
1,247	\$1,743	\$1,929	(\$187)	-9.7%	\$0	(\$213.22)	\$26.65	\$0.00	

Residential Heating Low Income:

Nov - Oct Consumption (Therms)	Proposed November-10	Current Rates	Difference	% Chg	Difference due to:				
					Base Rates	GCR	DAC	EnergyEff	
600	\$898	\$988	(\$90)	-9.1%	\$0	(\$102.58)	\$12.87	\$0.00	
664	\$980	\$1,079	(\$99)	-9.2%	\$0	(\$113.53)	\$14.24	\$0.00	
730	\$1,064	\$1,173	(\$109)	-9.3%	\$0	(\$124.80)	\$15.66	\$0.00	
794	\$1,144	\$1,263	(\$119)	-9.4%	\$0	(\$135.79)	\$16.97	\$0.00	
857	\$1,221	\$1,349	(\$128)	-9.5%	\$0	(\$146.54)	\$18.34	\$0.00	
Average Customer 922	\$1,300	\$1,437	(\$138)	-9.6%	\$0	(\$157.68)	\$19.75	\$0.00	
987	\$1,378	\$1,526	(\$148)	-9.7%	\$0	(\$168.78)	\$21.12	\$0.00	
1,051	\$1,455	\$1,612	(\$157)	-9.7%	\$0	(\$179.70)	\$22.50	\$0.00	
1,114	\$1,529	\$1,696	(\$167)	-9.8%	\$0	(\$190.50)	\$23.84	\$0.00	
1,180	\$1,606	\$1,783	(\$177)	-9.9%	\$0	(\$201.77)	\$25.24	\$0.00	
1,247	\$1,685	\$1,871	(\$187)	-10.0%	\$0	(\$213.22)	\$26.65	\$0.00	

Bill Impact Analysis with Various Levels of Consumption:
Current Distribution, GCR, DAC and Energy Efficiency Rates vs. 2010-2011 Proposed GCR and DAC

Residential Non-Heating:

						Difference due to:			
Nov - Oct Consumption (Therms)	Proposed November-10	Current Rates	Difference	% Chg	-----				
					Base Rates	GCR	DAC	EnergyEff	
	123	\$281	\$297	(\$16)	-5.5%	\$0	(\$18.93)	\$2.65	\$0
	137	\$299	\$317	(\$18)	-5.7%	\$0	(\$21.05)	\$2.94	\$0
	147	\$312	\$332	(\$19)	-5.9%	\$0	(\$22.59)	\$3.16	\$0
	161	\$331	\$352	(\$21)	-6.0%	\$0	(\$24.74)	\$3.49	\$0
	176	\$350	\$373	(\$23)	-6.2%	\$0	(\$27.01)	\$3.81	\$0
Average Customer	189	\$367	\$392	(\$25)	-6.4%	\$0	(\$29.02)	\$4.09	\$0
	202	\$384	\$411	(\$27)	-6.5%	\$0	(\$31.01)	\$4.36	\$0
	217	\$404	\$433	(\$29)	-6.6%	\$0	(\$33.29)	\$4.69	\$0
	231	\$422	\$453	(\$30)	-6.7%	\$0	(\$35.47)	\$4.98	\$0
	241	\$435	\$467	(\$32)	-6.8%	\$0	(\$36.99)	\$5.18	\$0
	256	\$455	\$489	(\$34)	-6.9%	\$0	(\$39.29)	\$5.50	\$0

Residential Non-Heating Low Income:

						Difference due to:			
Nov - Oct Consumption (Therms)	Proposed November-10	Current Rates	Difference	% Chg	-----				
					Base Rates	GCR	DAC	EnergyEff	
	123	\$264	\$280	(\$16)	-5.8%	\$0	(\$18.93)	\$2.65	\$0
	137	\$282	\$300	(\$18)	-6.0%	\$0	(\$21.05)	\$2.94	\$0
	147	\$294	\$314	(\$19)	-6.2%	\$0	(\$22.59)	\$3.16	\$0
	161	\$312	\$333	(\$21)	-6.4%	\$0	(\$24.74)	\$3.49	\$0
	176	\$331	\$354	(\$23)	-6.5%	\$0	(\$27.01)	\$3.81	\$0
Average Customer	189	\$348	\$373	(\$25)	-6.7%	\$0	(\$29.02)	\$4.09	\$0
	202	\$364	\$391	(\$27)	-6.8%	\$0	(\$31.01)	\$4.36	\$0
	217	\$383	\$412	(\$29)	-6.9%	\$0	(\$33.29)	\$4.69	\$0
	231	\$401	\$431	(\$30)	-7.1%	\$0	(\$35.47)	\$4.98	\$0
	241	\$414	\$445	(\$32)	-7.1%	\$0	(\$36.99)	\$5.18	\$0
	256	\$433	\$466	(\$34)	-7.2%	\$0	(\$39.29)	\$5.50	\$0

Bill Impact Analysis with Various Levels of Consumption:
Current Distribution, GCR, DAC and Energy Efficiency Rates vs. 2010-2011 Proposed GCR and DAC

C & I Small:

Nov - Oct Consumption (Therms)	Proposed November-10	Current Rates	Difference	% Chg	Difference due to:			
					Base Rates	GCR	DAC	EnergyEff
824	\$1,580	\$1,703	(\$123)	-7.2%	\$0	(\$141)	\$18	\$0
916	\$1,693	\$1,830	(\$137)	-7.5%	\$0	(\$157)	\$20	\$0
1,003	\$1,800	\$1,950	(\$150)	-7.7%	\$0	(\$172)	\$21	\$0
1,092	\$1,908	\$2,071	(\$163)	-7.9%	\$0	(\$187)	\$23	\$0
1,179	\$2,011	\$2,187	(\$176)	-8.1%	\$0	(\$202)	\$25	\$0
Average Customer 1,269	\$2,114	\$2,304	(\$190)	-8.2%	\$0	(\$217)	\$27	\$0
1,359	\$2,218	\$2,421	(\$203)	-8.4%	\$0	(\$232)	\$29	\$0
1,447	\$2,319	\$2,536	(\$216)	-8.5%	\$0	(\$247)	\$31	\$0
1,535	\$2,420	\$2,650	(\$230)	-8.7%	\$0	(\$262)	\$33	\$0
1,622	\$2,520	\$2,763	(\$243)	-8.8%	\$0	(\$277)	\$35	\$0
1,715	\$2,628	\$2,884	(\$257)	-8.9%	\$0	(\$293)	\$37	\$0

C & I Medium:

Nov - Oct Consumption (Therms)	Proposed November-10	Current Rates	Difference	% Chg	Difference due to:			
					Base Rates	GCR	DAC	EnergyEff
7,117	\$9,097	\$10,162	(\$1,065)	-10.5%	\$0	(\$1,217)	\$152	\$0
7,884	\$9,999	\$11,179	(\$1,179)	-10.6%	\$0	(\$1,348)	\$169	\$0
8,649	\$10,900	\$12,194	(\$1,294)	-10.6%	\$0	(\$1,479)	\$185	\$0
9,416	\$11,803	\$13,211	(\$1,409)	-10.7%	\$0	(\$1,610)	\$202	\$0
10,185	\$12,708	\$14,232	(\$1,524)	-10.7%	\$0	(\$1,742)	\$218	\$0
Average Customer 10,950	\$13,608	\$15,246	(\$1,638)	-10.7%	\$0	(\$1,872)	\$234	\$0
11,715	\$14,509	\$16,261	(\$1,753)	-10.8%	\$0	(\$2,003)	\$251	\$0
12,484	\$15,414	\$17,281	(\$1,868)	-10.8%	\$0	(\$2,135)	\$267	\$0
13,251	\$16,316	\$18,299	(\$1,982)	-10.8%	\$0	(\$2,266)	\$284	\$0
14,016	\$17,217	\$19,314	(\$2,097)	-10.9%	\$0	(\$2,397)	\$300	\$0
14,783	\$18,120	\$20,331	(\$2,212)	-10.9%	\$0	(\$2,528)	\$316	\$0

Bill Impact Analysis with Various Levels of Consumption:
Current Distribution, GCR, DAC and Energy Efficiency Rates vs. 2010-2011 Proposed GCR and DAC

C & I LLF Large:

Nov - Oct Consumption (Therms)	Proposed November-10	Current Rates	Difference	% Chg	Difference due to:			
					Base Rates	GCR	DAC	EnergyEff
37,532	\$46,096	\$51,711	(\$5,615)	-10.9%	\$0	(\$6,418)	\$803	\$0
41,573	\$50,904	\$57,123	(\$6,219)	-10.9%	\$0	(\$7,109)	\$890	\$0
45,616	\$55,714	\$62,539	(\$6,824)	-10.9%	\$0	(\$7,800)	\$976	\$0
49,660	\$60,526	\$67,955	(\$7,429)	-10.9%	\$0	(\$8,492)	\$1,063	\$0
53,699	\$65,332	\$73,365	(\$8,033)	-10.9%	\$0	(\$9,183)	\$1,149	\$0
Average Customer 57,742	\$70,142	\$78,780	(\$8,638)	-11.0%	\$0	(\$9,874)	\$1,236	\$0
61,785	\$74,953	\$84,196	(\$9,243)	-11.0%	\$0	(\$10,565)	\$1,322	\$0
65,824	\$79,758	\$89,606	(\$9,847)	-11.0%	\$0	(\$11,256)	\$1,409	\$0
69,868	\$84,570	\$95,022	(\$10,452)	-11.0%	\$0	(\$11,947)	\$1,495	\$0
73,911	\$89,380	\$100,437	(\$11,057)	-11.0%	\$0	(\$12,639)	\$1,582	\$0
77,952	\$94,188	\$105,850	(\$11,662)	-11.0%	\$0	(\$13,330)	\$1,668	\$0

C & I HLF Large:

Nov - Oct Consumption (Therms)	Proposed November-10	Current Rates	Difference	% Chg	Difference due to:			
					Base Rates	GCR	DAC	EnergyEff
37,970	\$41,998	\$47,014	(\$5,016)	-10.7%	\$0	(\$5,828)	\$813	\$0
42,061	\$46,368	\$51,924	(\$5,556)	-10.7%	\$0	(\$6,456)	\$900	\$0
46,151	\$50,737	\$56,834	(\$6,097)	-10.7%	\$0	(\$7,084)	\$988	\$0
50,240	\$55,104	\$61,741	(\$6,637)	-10.7%	\$0	(\$7,712)	\$1,075	\$0
54,329	\$59,472	\$66,649	(\$7,177)	-10.8%	\$0	(\$8,339)	\$1,163	\$0
Average Customer 58,418	\$63,840	\$71,557	(\$7,717)	-10.8%	\$0	(\$8,967)	\$1,250	\$0
62,508	\$68,209	\$76,466	(\$8,257)	-10.8%	\$0	(\$9,595)	\$1,338	\$0
66,596	\$72,576	\$81,373	(\$8,797)	-10.8%	\$0	(\$10,223)	\$1,425	\$0
70,686	\$76,944	\$86,282	(\$9,338)	-10.8%	\$0	(\$10,850)	\$1,513	\$0
74,775	\$81,312	\$91,190	(\$9,878)	-10.8%	\$0	(\$11,478)	\$1,600	\$0
78,867	\$85,683	\$96,101	(\$10,418)	-10.8%	\$0	(\$12,106)	\$1,688	\$0

Bill Impact Analysis with Various Levels of Consumption:
Current Distribution, GCR, DAC and Energy Efficiency Rates vs. 2010-2011 Proposed GCR and DAC

C & I LLF Extra-Large:

Nov - Oct Consumption (Therms)	Proposed November-10	Current Rates	Difference	% Chg	Difference due to:			
					Base Rates	GCR	DAC	EnergyEff
189,450	\$202,483	\$230,824	(\$28,342)	-12.3%	\$0	(\$32,396)	\$4,054	\$0
209,855	\$223,904	\$255,298	(\$31,394)	-12.3%	\$0	(\$35,885)	\$4,491	\$0
230,255	\$245,319	\$279,765	(\$34,446)	-12.3%	\$0	(\$39,374)	\$4,927	\$0
250,655	\$266,735	\$304,233	(\$37,498)	-12.3%	\$0	(\$42,862)	\$5,364	\$0
271,059	\$288,155	\$328,705	(\$40,550)	-12.3%	\$0	(\$46,351)	\$5,801	\$0
Average Customer 291,462	\$309,574	\$353,177	(\$43,603)	-12.3%	\$0	(\$49,840)	\$6,237	\$0
311,865	\$330,993	\$377,648	(\$46,655)	-12.4%	\$0	(\$53,329)	\$6,674	\$0
332,269	\$352,412	\$402,120	(\$49,707)	-12.4%	\$0	(\$56,818)	\$7,111	\$0
352,669	\$373,828	\$426,588	(\$52,759)	-12.4%	\$0	(\$60,306)	\$7,547	\$0
373,069	\$395,244	\$451,055	(\$55,811)	-12.4%	\$0	(\$63,795)	\$7,984	\$0
393,474	\$416,665	\$475,529	(\$58,864)	-12.4%	\$0	(\$67,284)	\$8,420	\$0

C & I HLF Extra-Large:

Nov - Oct Consumption (Therms)	Proposed November-10	Current Rates	Difference	% Chg	Difference due to:			
					Base Rates	GCR	DAC	EnergyEff
184,661	\$193,271	\$217,665	(\$24,394)	-11.2%	\$0	(\$28,345)	\$3,952	\$0
204,549	\$213,699	\$240,720	(\$27,021)	-11.2%	\$0	(\$31,398)	\$4,377	\$0
224,435	\$234,124	\$263,772	(\$29,648)	-11.2%	\$0	(\$34,451)	\$4,803	\$0
244,321	\$254,550	\$286,825	(\$32,275)	-11.3%	\$0	(\$37,503)	\$5,228	\$0
264,206	\$274,975	\$309,876	(\$34,902)	-11.3%	\$0	(\$40,556)	\$5,654	\$0
Average Customer 284,094	\$295,402	\$332,931	(\$37,529)	-11.3%	\$0	(\$43,608)	\$6,080	\$0
303,982	\$315,830	\$355,986	(\$40,156)	-11.3%	\$0	(\$46,661)	\$6,505	\$0
323,867	\$336,254	\$379,037	(\$42,783)	-11.3%	\$0	(\$49,714)	\$6,931	\$0
343,753	\$356,680	\$402,090	(\$45,410)	-11.3%	\$0	(\$52,766)	\$7,356	\$0
363,639	\$377,105	\$425,142	(\$48,037)	-11.3%	\$0	(\$55,819)	\$7,782	\$0
383,527	\$397,533	\$448,197	(\$50,664)	-11.3%	\$0	(\$58,871)	\$8,207	\$0

The Narragansett Electric Company
d/b/a National Grid
RIPUC NG-GAS No. 101

Section 7
Miscellaneous Services
Schedule A, Sheet 1
Fifth Revision

NATURAL GAS VEHICLE SERVICE
RATE 70

1.0 NATURAL GAS VEHICLE SERVICE

- 1.1 AVAILABILITY:** This rate is available for compressed natural gas dispensed at Company-owned fueling stations for the purpose of fueling natural gas vehicles.
- No other use of gas will be included in this rate for billing purposes.
- 1.2 RATES:**
- | | |
|----------------------|--------------------|
| Customer Charge: | \$5.00 per month |
| Energy Charge: | |
| Distribution Charge: | \$0.1958 per Therm |
| Commodity Charge: | \$0.7436 Therm |
- 1.3 MINIMUM RATE:** Customer Charge
- 1.4 GENERAL RULES AND REGULATIONS:** The Company's General Rules and Regulations in Section 1 of RIPUC NG-GAS No. 101, as in effect from time-to-time and where not inconsistent with any specific provisions hereof, are a part of this Schedule.
- 1.5 RHODE ISLAND GROSS EARNINGS TAX:** The application of the above rates are subject to the Rhode Island Gross Earnings Tax provisions in Section 1, Schedule D.
- 1.6 GAS ENERGY EFFICIENCY:** The application of the above rate is subject to Gas Energy Efficiency provisions in Section 1, Schedule C.

Summary of Marketer Transportation Factors

Item	Reference	Proposed	Billing Units
FT-2 Firm Transportation Marketer Gas Charge	pg 15	\$0.0367	Therms throughput of Marketer Pool
Pool Balancing Charge	pg 16	\$0.0023	Per % of balancing elected per Therm throughput of Marketer Pool
Weighted Average Upstream Pipeline Transportation Cost	EDA - 4	\$0.9677	Per Therm of capacity

Calculation of FT-2 Marketer Gas Charge

I. Determination of FT-2 Storage Fixed Cost Factor

1	Allocated Storage Fixed Costs	reference	
2	C & I Medium	JFN-1, pg 3	\$1,474,820
3	C & I Large LLF	JFN-1, pg 3	\$586,391
4	C & I Large HLF	JFN-1, pg 3	\$107,288
5	C & I Extra Large LLF	JFN-1, pg 3	\$133,872
6	C & I Extra Large HLF	JFN-1, pg 3	<u>\$52,136</u>
7	sub-total	sum ([1]:[6])	\$2,354,508
8	Through-put (dth)	JFN-1, pg 14	6,129,277
9	Storage Fixed Factor	[7] / [8]	\$0.3841

II. Storage Variable Non-product Cost Factor JFN-1, pg 1 **(\$0.0263)**

TOTAL FT-2 Gas Marketer Charge (per Dth) \$0.3578

Uncollectible % Dkt 3943 2.46%

TOTAL FT-2 Gas Marketer Charge adj for uncollectible (\$/dth) \$0.3669

Calculation of Pool Balancing Charge

	reference	Medium C&I	Large LLF	Large HLF	Extra Large LLF	Extra Large HLF	Total	
1	Throughput (dth)	JFN-1, pg 14	3,896,621	1,428,798	367,208	287,165	149,485	6,129,277
2	% allocation		63.57%	23.31%	5.99%	4.69%	2.44%	100.00%
3	Supply Fixed Cost Factor	JFN-1, pg 1	\$0.8190	\$0.8190	\$0.6341	\$0.8190	\$0.6341	
4	Storage Fixed Cost Factor	JFN-1, pg 1	\$0.3984	\$0.3984	\$0.3032	\$0.3984	\$0.3032	
5	Storage Variable Cost Factor	JFN-1, pg 1	\$1.0566	\$1.0566	\$1.0566	\$1.0566	\$1.0566	
6	Class Specific Pool Balancing Charge	([3]+[4]+[5]) x 1%	\$0.0227	\$0.0227	\$0.0199	\$0.0227	\$0.0199	
7	Class Specific Weighted Average (\$/dth)	[6] x [2]	\$0.0145	\$0.0053	\$0.0012	\$0.0011	\$0.0005	\$0.0225
8	Uncollectible %	Docket 3943	2.46%	2.46%	2.46%	2.46%	2.46%	
9	Pool Balancing Charge adjusted for Uncollectible	([7] / (1-[8]))	\$0.0148	\$0.0054	\$0.0012	\$0.0011	\$0.0005	\$0.0230
10	Per Therm Pool Balancing Charge	[9] / 10						\$0.0023