

January 24, 2013

VIA HAND DELIVERY & ELECTRONIC MAIL

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

RE: Docket 4346 - Revised Gas Charge Recovery Filing

Dear Ms Massaro:

Concurrent with implementation of new base distribution rates pursuant to the Rhode Island Public Utilities Commission ("Commission") approved Settlement Agreement in Docket 4323, National Grid¹ hereby files revised Gas Cost Recovery ("GCR") rates to incorporate changes approved in Docket 4323.

The specific changes approved in Docket 4323 that impact the calculation of GCR rates are an updated uncollectible percentage, working capital factors, and LNG O&M expense. Enclosed please find ten (10) copies of Attachments AEL-1 and AEL-5 from the Company's original GCR filing showing the development of the GCR and FT-2 Marketer rates with the updated factors from Docket 4323.

The revised Low Load GCR rate of \$0.6725 per therm is an increase of \$0.0050 per therm (0.7%) and the revised High Load GCR rate of \$0.6240 is an increase of \$0.0047 per therm (0.8%) from the currently approved rates. The revised FT-2 Marketer Demand rate of \$7.4178 per MDCQ dekatherm is an increase of \$0.0408 per MDCQ dekatherm (0.6%). The impact of the revised GCR rates on customer's bills is included in the Company's Docket 4323 Compliance 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.

Very truly yours,



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").

Certificate of Service

I hereby certify that a copy of the cover letter and/or any materials accompanying this certificate were electronically transmitted and sent via U.S. Mail to the individuals listed below. Copies of this filing were hand delivered to the RI Public Utilities Commission.



Joanne M. Scanlon
National Grid

January 24, 2013
Date

**Docket No. 4346 – National Grid – 2012 Annual Gas Cost Recovery Filing
("GCR") - Service List as of 10/17/12**

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**National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
Factors Effective November 1, 2012***

Line No.	Description (a)	Source Reference (b)	Line #	High Load ¹ (c)	Low Load ² (d)	FT-2 Mkter ³ (e)
1	Fixed Cost Factor	AEL-1R pg 2	Line 17	\$1.3488	\$1.8178	
2	Variable Cost Factor	AEL-1R pg 3	Line 14	\$4.6931	\$4.6931	
3	Total Gas Cost Recovery Charge	(1)+(2)		\$6.0419	\$6.5109	
4	Uncollectible %	Docket 4323		3.18%	3.18%	
5	Total GCR Charge adjusted for Uncollectibles	(3) / [(1 - (4))]		\$6.2403	\$6.7247	
6	GCR Charge on a per therm basis	(5) / 10		\$0.6240	\$0.6725	
	Current rate effective 11/01/12			\$0.6193	\$0.6675	
	difference			\$0.0047	\$0.0050	
				0.8%	0.7%	

* illustrates what the GCR rates would have been with the rate case changes per Dkt 4323 settlement

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

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

³ See AEL-5R for calculation of FT-2 rate

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

Line No.	Description (a)	Reference	Source (b)	Line #	Amount (c)	High Load Factor Total (e)	Low Load Factor Total (d)	Line No.
1	Fixed Costs (net of Cap Rel to marketers)	AEL-1R pg 4		Line 56	\$40,043,545			1
	Less:							
2	NGPMP Customer Benefit	EDA-1			(\$4,600,000)			2
3	Interruptible Costs				\$0			3
4	FT-2 Storage Demand Costs	AEL-5R pg 3		Line 5	(\$1,176,483)			4
5	LNG Demand to DAC	AEL-1R pg 4		Line (33 + 52) x (18.12%)*	(\$622,659)			5
6	Refunds				\$0			6
7	Total Credits	sum[(3):(7)]			(\$6,399,142)			7
	Plus:							
8	Supply Related LNG O&M Costs	Dkt 4323			\$575,581			8
9	Working Capital Requirement	AEL-1R pg 8		Line 15	\$237,119			9
10	Deferred Fixed Cost Balance	AEL-1R pg 6		Line 12 + Line 25	\$10,697,488			10
11	Reconciliation Amount from Fixed costs- Marketers	EDA-4			(\$374,462)			11
12	Total Additions	sum[(8):(11)]			\$11,135,727			12
13	Total Fixed Costs	(1) + (7) + (12)			\$44,780,129			13
14	Design Winter Sales Percentage	AEL-1R pg 12		Lines 10 & 11		2.87%	97.13%	14
15	Allocated Supply Fixed Costs	(13) x (14)				\$1,284,444	\$43,495,686	15
16	Sales (Dt) Nov 2012 - Oct 2013	AEL-1R pg 11		Line 12	24,879,878	952,267	23,927,611	16
17	Fixed Factor	(15) / (16)				\$1.3488	\$1.8178	17

* System Balancing Factor (Dkt 4283)

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

<u>Line No.</u>	<u>Description</u>	<u>Reference</u>	<u>Source</u> <u>Line #</u>	<u>Amount</u>	<u>Line No.</u>
1	Variable Costs	AEL-1R pg 4	Line 87 - 81	\$124,155,464	1
	Less:				
2	Non-Firm Sales			\$0	2
3	Balancing Related LNG Costs (to DAC)	AEL-1R pg 4-5	Line 84 x (18.12%)*	(\$372,608)	3
4	Refunds	AEL-1R pg 4-5	Line 81	\$0	4
5	Total Credits	sum [(2):(4)]		<u>(\$372,608)</u>	5
	Plus:				
6	Working Capital	AEL-1R pg 8-9	Line 31	\$737,243	6
7	Reconciliation Amount	AEL-1R pg 6-7	Line 40 & 57 & 70	(\$10,210,487)	7
8	Supply Related LNG O&M	Docket 4323		\$572,694	8
9	Inventory Financing - LNG (Supply)	AEL-1R pg 10	Line 25	\$376,125	9
10	Inventory Financing - Storage	AEL-1R pg 10	Line 12	<u>\$1,506,513</u>	10
11	Total Additions	sum [(6):(10)]		<u>(\$7,017,911)</u>	11
12	Total Variable Supply Costs	(1)+(5)+(11)		<u>\$116,764,945</u>	12
13	Sales (Dt) Nov 2012 - Oct 2013	AEL-1R pg 11	Line 12	24,879,878	13
14	Variable Cost Factor	(12)/(13)		<u>\$4.6931</u>	14

* System Balancing Factor (Dkt 4283)

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

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Line No.	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-Oct
SUPPLY FIXED COSTS - Pipeline Delivery													
1 Algonquin	650,451	650,451	650,451	650,451	650,451	650,451	650,451	650,451	650,451	650,451	650,451	650,451	7,805,408
2 Texas Eastern	212,532	212,532	212,532	212,532	212,532	212,532	212,532	212,532	212,532	212,532	212,532	212,532	2,550,389
3 TETCO	525,034	525,034	525,034	525,034	525,034	525,034	525,034	525,034	525,034	525,034	525,034	525,034	6,300,411
4 Tennessee	1,015,024	1,015,024	1,015,024	1,015,024	1,015,024	1,015,024	1,015,024	1,015,024	1,015,024	1,015,024	1,015,024	1,015,024	12,180,286
5 NETNE	0	0	0	0	0	0	0	0	0	0	0	0	0
6 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	80,115
7 Union	2,429	2,510	2,510	2,267	2,510	2,429	2,510	2,429	2,510	2,510	2,429	2,510	29,556
8 Transcanada	10,459	10,808	10,808	9,762	10,808	10,459	10,808	10,459	10,808	10,808	10,459	10,808	127,251
9 Dominion	2,311	2,311	2,311	2,311	2,311	2,311	2,311	2,311	2,311	2,311	2,311	2,311	27,735
10 Transco	6,404	6,618	6,618	5,977	6,618	6,404	6,618	6,404	6,618	6,618	6,404	6,618	77,916
11 National Fuel	4,663	4,663	4,663	4,663	4,663	4,663	4,663	4,663	4,663	4,663	4,663	4,663	55,955
12 Columbia	288,384	288,384	288,384	288,384	288,384	288,384	288,384	288,384	288,384	288,384	288,384	288,384	3,460,608
13 Hubline	74,203	74,203	74,203	74,203	74,203	74,203	74,203	74,203	74,203	74,203	74,203	74,203	890,437
14 Westerly Lateral	56,324	56,324	54,984	54,984	54,984	54,984	54,984	54,984	54,984	54,984	54,984	54,984	662,490
15 East to West	84,341	84,341	84,341	84,341	84,341	84,341	84,341	84,341	84,341	84,341	84,341	84,341	1,012,092
16 Less Credits from Mktr Releases	(551,270)	(551,270)	(551,270)	(551,270)	(551,270)	(551,270)	(551,270)	(551,270)	(551,270)	(551,270)	(551,270)	(551,270)	(6,615,235)
17 TOTAL SUPPLY FIXED COSTS - Pipeline	2,387,966	2,388,609	2,387,270	2,385,341	2,387,270	2,386,627	2,387,270	2,386,627	2,387,270	2,387,270	2,386,627	2,387,270	28,645,415
Supply Fixed - Supplier													
18 Distrigas FCS													
19 Total	2,387,966	2,388,609	2,387,270	2,385,341	2,387,270	2,386,627	2,387,270	2,386,627	2,387,270	2,387,270	2,386,627	2,387,270	28,645,415
20 Total Supply Fixed (Pipeline & Supplier)	2,387,966	2,388,609	2,387,270	2,385,341	2,387,270	2,386,627	2,387,270	2,386,627	2,387,270	2,387,270	2,386,627	2,387,270	28,645,415
STORAGE FIXED COSTS - Facilities													
21 Texas Eastern SS-1 Demand	81,515	81,515	81,515	81,515	81,515	81,515	81,515	81,515	81,515	81,515	81,515	81,515	978,175
22 Texas Eastern SS-1 Capacity	13,361	13,361	13,361	13,361	13,361	13,361	13,361	13,361	13,361	13,361	13,361	13,361	160,336
23 Texas Eastern FSS-1 Demand	845	845	845	845	845	845	845	845	845	845	845	845	10,139
24 Texas Eastern FSS-1 Capacity	610	610	610	610	610	610	610	610	610	610	610	610	7,324
25 Dominion GSS Demand	21,424	21,424	21,424	21,424	21,424	21,424	21,424	21,424	21,424	21,424	21,424	21,424	257,087
26 Dominion GSS Capiacity	15,070	15,070	15,070	15,070	15,070	15,070	15,070	15,070	15,070	15,070	15,070	15,070	180,839
27 Dominion GSS-TE Demand	26,936	26,936	26,936	26,936	26,936	26,936	26,936	26,936	26,936	26,936	26,936	26,936	323,236
28 Dominion GSS-TE Capacity	19,957	19,957	19,957	19,957	19,957	19,957	19,957	19,957	19,957	19,957	19,957	19,957	239,480
29 Tennessee FSMA Demand	32,600	32,600	32,600	32,600	32,600	32,600	32,600	32,600	32,600	32,600	32,600	32,600	391,203
30 Tennessee FSMA Capacity	17,204	17,204	17,204	17,204	17,204	17,204	17,204	17,204	17,204	17,204	17,204	17,204	206,445
31 Columbia FSS Demand	3,840	3,840	3,840	3,840	3,840	3,840	3,840	3,840	3,840	3,840	3,840	3,840	46,085
32 Columbia FSS Capacity	5,894	5,894	5,894	5,894	5,894	5,894	5,894	5,894	5,894	5,894	5,894	5,894	70,732
33 Keyspan LNG Tank Lease Payment	163,740	163,740	163,740	163,740	163,740	163,740	163,740	163,740	163,740	163,740	163,740	163,740	1,964,880
34 TOTAL FIXED STORAGE COSTS	402,997	402,997	402,997	402,997	402,997	402,997	402,997	402,997	402,997	402,997	402,997	402,997	4,835,962
STORAGE FIXED COSTS - Delivery													
35 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	1,013,979
36 Algonquin delivery for FSS	5,642	5,642	5,642	5,642	5,642	5,642	5,642	5,642	5,642	5,642	5,642	5,642	67,709
37 TETCO delivery for FSS	4,964	4,964	4,964	4,964	4,964	4,964	4,964	4,964	4,964	4,964	4,964	4,964	59,563
38 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	19,079
39 Algonquin delivery for GSS, 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	841,982
40 Algonquin SCT delivery for GSS-TE	447	447	447	447	447	447	447	447	447	447	447	447	5,365
41 Algonquin delivery for GSS Conv	20,168	20,168	20,168	20,168	20,168	20,168	20,168	20,168	20,168	20,168	20,168	20,168	242,013
42 Tennessee delivery for GSS	57,093	57,093	57,093	57,093	57,093	57,093	57,093	57,093	57,093	57,093	57,093	57,093	685,111
43 Tennessee delivery for FSMA	34,901	34,901	34,901	34,901	34,901	34,901	34,901	34,901	34,901	34,901	34,901	34,901	418,809
44 TETCO delivery for GSS	34,123	34,123	34,123	34,123	34,123	34,123	34,123	34,123	34,123	34,123	34,123	34,123	409,480
45 TETCO delivery for GSS-TE	3,538	3,538	3,538	3,538	3,538	3,538	3,538	3,538	3,538	3,538	3,538	3,538	42,455
46 TETCO delivery for GSS-TE	34,396	34,396	34,396	34,396	34,396	34,396	34,396	34,396	34,396	34,396	34,396	34,396	412,746
47 TETCO delivery for GSS Conv	10,674	10,674	10,674	10,674	10,674	10,674	10,674	10,674	10,674	10,674	10,674	10,674	128,087
48 Dominion delivery for GSS Conv	8,871	8,871	8,871	8,871	8,871	8,871	8,871	8,871	8,871	8,871	8,871	8,871	106,447
49 Dominion delivery for GSS	22,914	22,914	22,914	22,914	22,914	22,914	22,914	22,914	22,914	22,914	22,914	22,914	274,974
50 Algonquin 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	182,541
51 Columbia Delivery for FSS	15,033	15,033	15,033	15,033	15,033	15,033	15,033	15,033	15,033	15,033	15,033	15,033	180,400
52 Distrigas FLS call payment	118,750	118,750	118,750	118,750	118,750	125,383	125,383	125,383	125,383	125,383	125,383	125,383	1,471,430
53 Less Credits from Mktr Releases													
54 STORAGE DELIVERY FIXED COST	542,978	542,978	542,978	542,978	542,978	549,611	549,611	549,611	549,611	549,611	549,611	549,611	6,562,168
55 TOTAL STORAGE FIXED	945,975	945,975	945,975	945,975	945,975	952,608	952,608	952,608	952,608	952,608	952,608	952,608	11,398,130
56 TOTAL FIXED COSTS	3,333,941	3,334,584	3,333,245	3,331,316	3,333,245	3,339,235	3,339,878	3,339,235	3,339,878	3,339,878	3,339,235	3,339,878	40,043,545

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No.	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-Oct
VARIABLE SUPPLY COSTS (Includes Injections)													
57 Tennessee Zone 0	206,178	718,614	656,924	727,964	493,286	430,130	243,469	159,480	0	0	0	0	3,636,045
58 Tennessee Zone 1	438,820	1,480,095	1,355,011	1,520,947	1,035,429	909,746	510,685	329,886	0	0	0	0	7,580,619
59 Tennessee Connexion	1,166,789	1,296,706	1,344,652	1,211,480	1,334,913	1,277,351	1,330,044	1,302,001	1,363,381	1,371,248	1,327,014	1,377,990	15,703,569
60 Tennessee Dracut	0	202,906	0	0	0	0	73,308	0	0	0	0	0	276,214
61 TETCO STX	0	405,946	593,618	475,384	0	290,130	298,987	189,799	54,435	11,326	10,976	11,396	2,341,997
62 TETCO ELA	0	910,185	1,333,569	1,065,875	0	650,903	670,168	426,865	121,494	25,304	25,304	25,498	5,254,390
63 TETCO WLA	0	633,238	917,645	734,239	0	449,324	462,619	292,212	83,932	17,467	16,932	17,601	3,625,210
64 TETCO ETX	0	264,924	387,869	311,230	0	190,720	195,625	125,337	36,134	7,404	7,218	7,554	1,534,016
65 TETCO NF	0	51,446	75,066	59,983	0	36,871	37,932	24,118	6,858	1,427	1,383	1,437	296,521
66 M3 Delivered	2,114,918	1,293,741	979,585	562,554	4,356,504	2,014,453	1,967,418	103,451	0	0	114,450	2,009,280	15,516,353
67 Maumee	2,623,770	4,330,104	4,465,923	4,042,493	4,430,877	2,932,130	312,931	393,156	6,559	0	0	162,704	23,700,646
68 Broadrun Col	989,941	1,103,540	1,140,674	1,026,404	1,118,670	1,083,391	1,135,318	1,102,450	958,244	964,119	1,105,909	1,140,698	12,869,358
69 Columbia Eagle and Downingtown	0	0	0	0	0	0	0	0	0	0	0	0	0
70 Transco Zone 2	13,889	15,230	15,798	14,184	0	0	0	0	0	0	0	0	59,100
71 Dominion to TETCO FTS	0	31,348	45,743	36,552	0	22,467	23,114	14,696	4,179	870	843	876	180,687
72 Transco Zone 3	303	333	343	311	0	0	0	0	0	0	0	0	1,290
73 ANE to Tennessee	119,188	130,495	131,074	118,564	130,721	0	0	0	0	0	0	0	630,043
74 Niagara to Tennessee	0	13,086	0	0	0	125,337	0	0	0	0	0	0	138,423
75 TETCO to B & W	0	118,811	173,282	138,462	0	84,858	87,294	55,490	15,777	3,283	3,182	3,305	683,745
76 DistriGas FCS	0	0	0	0	0	0	0	0	0	0	0	0	0
77 Hubline	0	648,811	715,019	560,872	0	0	0	0	0	0	0	0	1,924,702
78 Total Pipeline Commodity Charges	7,673,795	13,649,557	14,331,795	12,607,498	12,900,400	10,497,811	7,348,912	4,518,941	2,650,994	2,402,448	2,612,438	4,758,338	95,952,928
79 Hedging	2,937,811	3,308,328	3,521,856	2,677,745	2,967,584	1,488,598	889,801	612,975	621,754	538,642	382,288	344,471	20,291,853
80 Costs of Injections	0	0	0	0	0	(2,810,893)	(2,886,484)	(1,921,337)	(473,220)	(184,433)	(184,466)	(66,817)	(8,527,648)
81 Refunds	0	0	0	0	0	0	0	0	0	0	0	0	0
82 TOTAL VARIABLE SUPPLY COSTS	10,611,606	16,957,885	17,853,651	15,285,243	15,867,984	9,175,517	5,352,229	3,210,580	2,799,528	2,756,658	2,810,260	5,035,992	107,717,133
83 Underground Storage	0	1,611,095	6,922,920	5,134,424	245,598	0	0	0	0	0	0	112,685	14,026,722
84 LNG Withdrawals and Trucking	105,291	510,215	350,598	201,062	109,212	105,291	109,212	108,710	115,127	115,127	110,994	115,499	2,056,336
85 Storage Delivery Costs	0	34,268	174,468	136,135	5,721	0	0	0	0	0	0	4,682	355,274
86 TOTAL VARIABLE STORAGE COSTS	105,291	2,155,578	7,447,986	5,471,620	360,531	105,291	109,212	108,710	115,127	115,127	110,994	232,866	16,438,331
87 TOTAL VARIABLE COSTS	10,716,897	19,113,463	25,301,637	20,756,863	16,228,514	9,280,808	5,461,441	3,319,290	2,914,655	2,871,784	2,921,254	5,268,858	124,155,464
88 TOTAL SUPPLY COSTS	14,050,838	22,448,047	28,634,881	24,088,179	19,561,759	12,620,043	8,801,319	6,658,524	6,254,533	6,211,662	6,260,488	8,608,736	164,199,009
Storage Costs for FT-2 Calculation													
89 Storage Fixed Costs - Facilities	402,997	402,997	402,997	402,997	402,997	402,997	402,997	402,997	402,997	402,997	402,997	402,997	4,835,962
90 Storage Fixed Costs - Deliveries	542,978	542,978	542,978	542,978	542,978	549,611	549,611	549,611	549,611	549,611	549,611	549,611	6,562,168
91 Total Storage Costs	945,975	945,975	945,975	945,975	945,975	952,608	952,608	952,608	952,608	952,608	952,608	952,608	11,398,130

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

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Line No.		Mar-12 31 actual	Apr-12 30 actual	May-12 31 actual	Jun-12 30 actual	Jul-12 31 actual	Aug-12 31 forecast	Sep-12 30 forecast	Oct-12 31 forecast
I. Supply Fixed Cost Deferred									
1	Beginning Balance	\$4,542,227	\$3,622,411	\$2,761,030	\$3,566,306	\$5,135,693	\$6,444,991	\$8,234,772	\$9,923,967
2	Supply Fixed Costs (net of cap rel)	\$2,420,835	\$2,175,399	\$2,301,228	\$2,602,517	\$2,200,867	\$2,637,174	\$2,636,499	\$2,637,174
3	Capacity Release	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	NGPMP Credits	(\$326,667)	(\$1,040,994)	(\$326,667)	(\$326,667)	(\$326,667)	(\$326,667)	(\$326,667)	(\$326,667)
5	Working Capital	<u>\$16,066</u>	<u>\$14,437</u>	<u>\$15,272</u>	<u>\$17,272</u>	<u>\$14,606</u>	<u>\$17,502</u>	<u>\$17,497</u>	<u>\$17,502</u>
6	Total Supply Fixed Costs	\$2,110,234	\$1,148,842	\$1,989,834	\$2,293,122	\$1,888,807	\$2,328,009	\$2,327,330	\$2,328,009
7	Supply Fixed - Collections	\$3,034,381	\$2,013,501	\$1,187,915	\$728,203	\$585,654	\$546,016	\$647,458	\$685,387
8	Prelim. Ending Balance	\$3,618,080	\$2,757,753	\$3,562,949	\$5,131,226	\$6,438,847	\$8,226,983	\$9,914,643	\$11,566,588
9	Month's Average Balance	\$4,080,153	\$3,190,082	\$3,161,990	\$4,348,766	\$5,787,270	\$7,335,987	\$9,074,707	\$10,745,278
10	Interest Rate (BOA Prime minus 200 bp)	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%
11	Interest Applied	\$4,332	\$3,277	\$3,357	\$4,468	\$6,144	\$7,788	\$9,323	\$11,408
12	Supply Fixed Ending Balance	\$3,622,411	\$2,761,030	\$3,566,306	\$5,135,693	\$6,444,991	\$8,234,772	\$9,923,967	\$11,577,996
II. Storage Fixed Cost Deferred									
13	Beginning Balance	(\$3,200,098)	(\$3,655,954)	(\$3,706,601)	(\$3,434,575)	(\$3,319,121)	(\$2,842,091)	(\$2,153,388)	(\$1,500,464)
14	Storage Fixed Costs	\$770,389	\$782,521	\$774,727	\$436,007	\$727,807	\$876,522	\$876,522	\$876,522
15	LNG Demand to DAC	(\$56,567)	(\$52,389)	(\$52,389)	(\$52,389)	(\$52,389)	(\$29,670)	(\$29,670)	(\$29,670)
16	Supply Related LNG O & M	\$51,549	\$51,549	\$51,549	\$51,549	\$51,549	\$51,549	\$51,549	\$51,549
17	Working Capital	<u>\$5,079</u>	<u>\$5,188</u>	<u>\$5,136</u>	<u>\$2,888</u>	<u>\$4,825</u>	<u>\$5,962</u>	<u>\$5,962</u>	<u>\$5,962</u>
18	Total Storage Fixed Costs	\$770,452	\$786,869	\$779,023	\$438,055	\$731,792	\$904,364	\$904,364	\$904,364
19	TSS Peaking Collections	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
20	Storage Fixed - Collections	\$1,222,670	\$833,736	\$503,208	\$319,134	\$251,493	\$213,011	\$249,564	\$283,145
21	Prelim. Ending Balance	(\$3,652,317)	(\$3,702,821)	(\$3,430,786)	(\$3,315,653)	(\$2,838,822)	(\$2,150,738)	(\$1,498,588)	(\$879,244)
22	Month's Average Balance	(\$3,426,207)	(\$3,679,387)	(\$3,568,694)	(\$3,375,114)	(\$3,078,972)	(\$2,496,414)	(\$1,825,988)	(\$1,189,854)
23	Interest Rate (BOA Prime minus 200 bp)	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%
24	Interest Applied	(\$3,637)	(\$3,780)	(\$3,789)	(\$3,468)	(\$3,269)	(\$2,650)	(\$1,876)	(\$1,263)
25	Storage Fixed Ending Balance	(\$3,655,954)	(\$3,706,601)	(\$3,434,575)	(\$3,319,121)	(\$2,842,091)	(\$2,153,388)	(\$1,500,464)	(\$880,508)
III. Variable Supply Cost Deferred									
26	Beginning Balance	(\$4,095,967)	(\$8,665,808)	(\$11,580,864)	(\$12,852,837)	(\$13,902,852)	(\$14,253,608)	(\$14,081,944)	(\$15,148,266)
27	Variable Supply Costs	\$13,015,136	\$8,797,510	\$5,753,837	\$3,222,939	\$3,117,585	\$3,417,404	\$2,810,168	\$5,297,426
28	Variable Delivery Storage	(\$10,262)	(\$1,764)	(\$1,716)	(\$2,756)	(\$2,196)	\$0	\$0	\$0
29	Variable Injections Storage	(\$6,736)	(\$6,359)	(\$9,612)	(\$5,558)	(\$4,822)	(\$611)	(\$10,518)	(\$392)
30	Fuel Cost Allocated to Storage	(\$11,789)	(\$10,078)	(\$14,899)	(\$9,989)	(\$9,500)	(\$2,412)	(\$26,551)	(\$1,780)
31	Working Capital	<u>\$86,185</u>	<u>\$58,265</u>	<u>\$38,012</u>	<u>\$21,268</u>	<u>\$20,581</u>	<u>\$22,660</u>	<u>\$18,404</u>	<u>\$35,142</u>
32	Total Supply Variable Costs	\$13,072,534	\$8,837,574	\$5,765,621	\$3,225,903	\$3,121,648	\$3,437,041	\$2,791,502	\$5,330,397
33	Supply Variable - Collections	\$17,643,818	\$11,743,654	\$7,026,260	\$4,262,652	\$3,457,510	\$3,250,344	\$3,842,816	\$4,065,455
34	Deferred Responsibility	(\$8,213)	(\$1,420)	(\$1,629)	(\$471)	(\$45)	\$0	\$0	\$0
35	Prelim. Ending Balance	(\$8,659,037)	(\$11,570,468)	(\$12,839,874)	(\$13,889,115)	(\$14,238,670)	(\$14,066,911)	(\$15,133,258)	(\$13,883,324)
36	Month's Average Balance	(\$6,377,502)	(\$10,118,138)	(\$12,210,369)	(\$13,370,976)	(\$14,070,761)	(\$14,160,259)	(\$14,607,601)	(\$14,515,795)
37	Interest Rate (BOA Prime minus 200 bp)	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%
38	Interest Applied	(\$6,771)	(\$10,395)	(\$12,963)	(\$13,737)	(\$14,938)	(\$15,033)	(\$15,008)	(\$15,411)
39	Gas Procurement Incentive/(penalty)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
40	Supply Variable Ending Balance	(\$8,665,808)	(\$11,580,864)	(\$12,852,837)	(\$13,902,852)	(\$14,253,608)	(\$14,081,944)	(\$15,148,266)	(\$13,898,735)

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

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Line No.		Mar-12 31 actual	Apr-12 30 actual	May-12 31 actual	Jun-12 30 actual	Jul-12 31 actual	Aug-12 31 forecast	Sep-12 30 forecast	Oct-12 31 forecast
	<u>IVa. Storage Variable Product Cost Deferred</u>								
41	Beginning Balance	\$10,920,603	\$7,189,013	\$5,581,359	\$6,314,234	\$4,703,516	\$4,795,321	\$4,521,429	\$4,150,576
42	Storage Variable Prod. Costs - LNG	\$415,824	\$81,388	\$73,019	\$96,291	\$117,174	\$116,130	\$111,839	\$116,274
43	Storage Variable Prod. Costs - LP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
44	Storage Variable Prod. Costs - UG	(\$1,036,118)	\$317,500	\$1,751,151	(\$1,117,579)	\$390,861	\$0	\$0	\$0
45	Supply Related LNG to DAC	\$6,799	(\$14,747)	(\$13,231)	(\$17,448)	(\$21,232)	(\$21,043)	(\$20,265)	(\$21,069)
46	Supply Related LNG O & M	\$35,844	\$35,844	\$35,844	\$35,844	\$35,844	\$35,844	\$35,844	\$35,844
47	Inventory Financing - LNG	\$22,706	\$22,626	\$22,303	\$25,323	\$26,583	\$39,188	\$39,316	\$39,450
48	Inventory Financing - UG	\$120,472	\$137,160	\$147,763	\$174,044	\$181,249	\$160,017	\$178,115	\$178,769
49	Inventory Financing - LP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
50	Working Capital	(\$3,834)	\$2,787	\$12,256	(\$6,656)	\$3,469	\$869	\$846	\$870
51	Total Storage Variable Product Costs	(\$438,308)	\$582,557	\$2,029,106	(\$810,181)	\$733,948	\$331,005	\$345,695	\$350,138
52	Storage Variable Product Collections	\$3,302,890	\$2,196,768	\$1,302,541	\$806,194	\$647,183	\$609,840	\$721,001	\$762,773
53	Prelim. Ending Balance	\$7,179,405	\$5,574,802	\$6,307,923	\$4,697,860	\$4,790,282	\$4,516,487	\$4,146,123	\$3,737,941
54	Month's Average Balance	\$9,050,004	\$6,381,907	\$5,944,641	\$5,506,047	\$4,746,899	\$4,655,904	\$4,333,776	\$3,944,258
55	Interest Rate (BOA Prime minus 200 bp:	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%
56	Interest Applied	\$9,608	\$6,557	\$6,311	\$5,657	\$5,040	\$4,943	\$4,453	\$4,187
57	Storage Variable Product Ending Bal.	\$7,189,013	\$5,581,359	\$6,314,234	\$4,703,516	\$4,795,321	\$4,521,429	\$4,150,576	\$3,742,128
	<u>IVb. Stor Var Non-Prod Cost Deferred</u>								
58	Beginning Balance	\$65,387	\$29,222	(\$21,676)	(\$32,647)	(\$29,422)	(\$25,209)	(\$42,562)	(\$29,073)
59	Storage Variable Non-prod. Costs	\$50,623	\$8,386	\$7,661	\$12,060	\$9,495	\$0	\$0	\$0
60	Variable Delivery Storage Costs	\$10,262	\$1,764	\$1,716	\$2,756	\$2,196	\$0	\$0	\$0
61	Variable Injection Storage Costs	\$6,736	\$6,359	\$9,612	\$5,558	\$4,822	\$611	\$10,518	\$392
62	Fuel Costs Allocated to Storage	\$11,789	\$10,078	\$14,899	\$9,989	\$9,500	\$2,412	\$26,551	\$1,780
63	Working Capital	\$527	\$176	\$225	\$202	\$173	\$20	\$246	\$14
64	Total Storage Var Non-product Costs	\$79,937	\$26,763	\$34,113	\$30,565	\$26,185	\$3,043	\$37,316	\$2,186
65	Storage Var Non-Product Collections	\$116,153	\$77,664	\$45,055	\$27,309	\$21,943	\$20,360	\$23,790	\$26,949
66	Prelim. Ending Balance	\$29,171	(\$21,679)	(\$32,618)	(\$29,390)	(\$25,180)	(\$42,526)	(\$29,036)	(\$53,836)
67	Month's Average Balance	\$47,279	\$3,771	(\$27,147)	(\$31,019)	(\$27,301)	(\$33,868)	(\$35,799)	(\$41,455)
68	Interest Rate (BOA Prime minus 200 bp:	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%
69	Interest Applied	\$50	\$4	(\$29)	(\$32)	(\$29)	(\$36)	(\$37)	(\$44)
70	Storage Var Non-Product Ending Bal.	\$29,222	(\$21,676)	(\$32,647)	(\$29,422)	(\$25,209)	(\$42,562)	(\$29,073)	(\$53,880)
	<u>GCR Deferred Summary</u>								
71	Beginning Balance	\$8,232,152	(\$1,481,116)	(\$6,966,752)	(\$6,439,518)	(\$7,412,185)	(\$5,880,597)	(\$3,521,694)	(\$2,603,261)
72	Gas Costs	\$15,817,492	\$12,342,746	\$10,853,462	\$5,469,158	\$6,785,393	\$7,283,116	\$6,689,918	\$9,182,270
73	NGPMP Credits	(\$326,667)	(\$1,040,994)	(\$326,667)	(\$326,667)	(\$326,667)	(\$326,667)	(\$326,667)	(\$326,667)
74	Working Capital	\$104,024	\$80,853	\$70,901	\$34,973	\$43,653	\$47,013	\$42,955	\$59,491
75	Total Costs	\$15,594,849	\$11,382,605	\$10,597,696	\$5,177,465	\$6,502,379	\$7,003,462	\$6,406,207	\$8,915,094
76	Collections	\$25,311,699	\$16,863,904	\$10,063,350	\$6,143,020	\$4,963,738	\$4,639,571	\$5,484,629	\$5,823,709
77	Prelim. Ending Balance	(\$1,484,698)	(\$6,962,414)	(\$6,432,405)	(\$7,405,073)	(\$5,873,544)	(\$3,516,705)	(\$2,600,116)	\$488,125
78	Month's Average Balance	\$3,373,727	(\$4,221,765)	(\$6,699,578)	(\$6,922,296)	(\$6,642,865)	(\$4,698,651)	(\$3,060,905)	(\$1,057,568)
79	Interest Rate (BOA Prime minus 200 bp:	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%
80	Interest Applied	\$3,582	(\$4,337)	(\$7,113)	(\$7,112)	(\$7,052)	(\$4,988)	(\$3,145)	(\$1,123)
81	Gas Purchase Plan Incentives/(Penalties)								
82	Ending Bal. W/ Interest	(\$1,481,116)	(\$6,966,752)	(\$6,439,518)	(\$7,412,185)	(\$5,880,597)	(\$3,521,694)	(\$2,603,261)	\$487,002

**National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
Costs Working Capital Calculation**

Line No.	Description (a)	Source (b)	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Total
Fixed Costs			\$3,333,941	\$3,334,584	\$3,333,245	\$3,331,316	\$3,333,245	\$3,339,235	\$3,339,878	\$3,339,235	\$3,339,878	\$3,339,878	\$3,339,235	\$3,339,878	\$40,043,545
1	Capacity Release Revenue		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Less: LNG Demand to DAC		(\$51,187)	(\$51,187)	(\$51,187)	(\$51,187)	(\$51,187)	(\$52,389)	(\$52,389)	(\$52,389)	(\$52,389)	(\$52,389)	(\$52,389)	(\$52,389)	(\$622,659)
3	Less: Credits		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	Plus: Supply Related LNG O&M Costs	Dkt 4323	\$47,965	\$47,965	\$47,965	\$47,965	\$47,965	\$47,965	\$47,965	\$47,965	\$47,965	\$47,965	\$47,965	\$47,965	\$575,581
5	Allowable Working Capital Costs	sum[(1)-(4)]	\$3,330,719	\$3,331,362	\$3,330,023	\$3,328,094	\$3,330,023	\$3,334,811	\$3,335,454	\$3,334,811	\$3,335,454	\$3,335,454	\$3,334,811	\$3,335,454	\$39,996,467
6	Number of Days Lag	Dkt 4323	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	
7	Working Capital Requirement	[(5) * (6)] / 365	\$196,284	\$196,322	\$196,243	\$196,130	\$196,243	\$196,525	\$196,563	\$196,525	\$196,563	\$196,563	\$196,525	\$196,563	
8	Cost of Capital	Dkt 4323	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	
9	Return on Working Capital Requirement	(7) * (8)	\$14,800	\$14,803	\$14,797	\$14,788	\$14,797	\$14,818	\$14,821	\$14,818	\$14,821	\$14,821	\$14,818	\$14,821	
10	Weighted Cost of Debt	Dkt 4323	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	
11	Interest Expense	(7) * (10)	\$5,614	\$5,615	\$5,613	\$5,609	\$5,613	\$5,621	\$5,622	\$5,621	\$5,622	\$5,622	\$5,621	\$5,622	
12	Taxable Income	(9) - (11)	\$9,186	\$9,188	\$9,184	\$9,179	\$9,184	\$9,197	\$9,199	\$9,197	\$9,199	\$9,199	\$9,197	\$9,199	
13	1 - Combined Tax Rate	Dkt 4323	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	
14	Return and Tax Requirement	(12) / (13)	\$14,132	\$14,135	\$14,130	\$14,121	\$14,130	\$14,150	\$14,153	\$14,150	\$14,153	\$14,153	\$14,150	\$14,153	
15	Fixed Working Capital Requirement	(11) + (14)	<u>\$19,746</u>	<u>\$19,750</u>	<u>\$19,742</u>	<u>\$19,731</u>	<u>\$19,742</u>	<u>\$19,770</u>	<u>\$19,774</u>	<u>\$19,770</u>	<u>\$19,774</u>	<u>\$19,774</u>	<u>\$19,770</u>	<u>\$19,774</u>	<u>\$237,119</u>
16	Variable Costs		\$10,716,897	\$19,113,463	\$25,301,637	\$20,756,863	\$16,228,514	\$9,280,808	\$5,461,441	\$3,319,290	\$2,914,655	\$2,871,784	\$2,921,254	\$5,268,858	\$124,155,464
17	Less: Non-firm Sales														\$0
18	Less: Supply Refunds														\$0
19	Less: Balancing Related LNG Commodity (to DAC)		(\$19,079)	(\$92,451)	(\$63,528)	(\$36,432)	(\$19,789)	(\$19,079)	(\$19,789)	(\$19,698)	(\$20,861)	(\$20,861)	(\$20,112)	(\$20,928)	(\$372,608)
20	Plus: Supply Related LNG O&M Costs	Dkt 4323	\$47,725	\$47,725	\$47,725	\$47,725	\$47,725	\$47,725	\$47,725	\$47,725	\$47,725	\$47,725	\$47,725	\$47,725	\$572,694
21	Allowable Working Capital Costs	sum[(16)-(20)]	\$10,745,543	\$19,068,737	\$25,285,833	\$20,768,155	\$16,256,450	\$9,309,454	\$5,489,376	\$3,347,316	\$2,941,518	\$2,898,648	\$2,948,866	\$5,295,654	\$124,355,550
22	Number of Days Lag	Dkt 4323	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	
23	Working Capital Requirement	[(21) * (22)] / 365	\$633,251	\$1,123,749	\$1,490,132	\$1,223,899	\$958,017	\$548,620	\$323,497	\$197,262	\$173,348	\$170,822	\$173,781	\$312,081	
24	Cost of Capital	Dkt 4323	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	
25	Return on Working Capital Requirement	(23) * (24)	\$47,747	\$84,731	\$112,356	\$92,282	\$72,234	\$41,366	\$24,392	\$14,874	\$13,070	\$12,880	\$13,103	\$23,531	
26	Weighted Cost of Debt	Dkt 4323	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	
27	Interest Expense	(23) * (26)	\$18,111	\$32,139	\$42,618	\$35,004	\$27,399	\$15,691	\$9,252	\$5,642	\$4,958	\$4,885	\$4,970	\$8,926	
28	Taxable Income	(25) - (27)	\$29,636	\$52,591	\$69,738	\$57,278	\$44,835	\$25,675	\$15,140	\$9,232	\$8,113	\$7,994	\$8,133	\$14,605	
29	1 - Combined Tax Rate	Dkt 4323	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	
30	Return and Tax Requirement	(28) / (29)	\$45,594	\$80,910	\$107,290	\$88,121	\$68,977	\$39,501	\$23,292	\$14,203	\$12,481	\$12,299	\$12,512	\$22,470	
31	Variable Working Capital Requirement	(27) + (30)	<u>\$63,705</u>	<u>\$113,049</u>	<u>\$149,907</u>	<u>\$123,124</u>	<u>\$96,377</u>	<u>\$55,191</u>	<u>\$32,544</u>	<u>\$19,845</u>	<u>\$17,439</u>	<u>\$17,185</u>	<u>\$17,482</u>	<u>\$31,395</u>	<u>\$737,243</u>

[illegible]

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

Line No.	Description (a)	Source (b)	Nov-12 (c)	Dec-12 (d)	Jan-13 (e)	Feb-13 (f)	Mar-13 (g)	Apr-13 (h)	May-13 (i)	Jun-13 (j)	Jul-13 (k)	Aug-13 (l)	Sep-13 (m)	Oct-13 (n)	Total (p)
1	Storage Inventory Balance		\$17,309,838	\$16,458,019	\$12,786,571	\$10,057,438	\$9,927,277	\$12,404,846	\$14,995,982	\$16,698,544	\$17,084,311	\$17,235,932	\$17,397,884	\$17,346,745	
2	Hedging														
3	Subtotal	(1) + (2)	\$17,309,838	\$16,458,019	\$12,786,571	\$10,057,438	\$9,927,277	\$12,404,846	\$14,995,982	\$16,698,544	\$17,084,311	\$17,235,932	\$17,397,884	\$17,346,745	
4	Cost of Capital	Dkt 4323	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	
5	Return on Working Capital Requirement	(3) * (4)	\$1,305,162	\$1,240,935	\$964,107	\$758,331	\$748,517	\$935,325	\$1,130,697	\$1,259,070	\$1,288,157	\$1,299,589	\$1,311,800	\$1,307,945	\$13,549,635
6	Weighted Cost of Debt	Dkt 4323	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	
7	Interest Charges Financed	(1) * (6)	\$495,061	\$470,699	\$365,696	\$287,643	\$283,920	\$354,779	\$428,885	\$477,578	\$488,611	\$492,948	\$497,579	\$496,117	\$5,139,517
8	Taxable Income	(5) - (7)	\$810,100	\$770,235	\$598,412	\$470,688	\$464,597	\$580,547	\$701,812	\$781,492	\$799,546	\$806,642	\$814,221	\$811,828	
9	1 - Combined Tax Rate	Dkt 4323	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	
10	Return and Tax Requirement	(8) / (9)	\$1,246,308	\$1,184,977	\$920,633	\$724,136	\$714,764	\$893,149	\$1,079,711	\$1,202,295	\$1,230,070	\$1,240,987	\$1,252,648	\$1,248,966	\$12,938,644
11	Working Capital Requirement	(7) + (10)	\$1,741,370	\$1,655,677	\$1,286,329	\$1,011,778	\$998,684	\$1,247,928	\$1,508,596	\$1,679,874	\$1,718,682	\$1,733,935	\$1,750,227	\$1,745,083	\$18,078,161
12	Monthly Average	(11) / 12	\$145,114	\$137,973	\$107,194	\$84,315	\$83,224	\$103,994	\$125,716	\$139,989	\$143,223	\$144,495	\$145,852	\$145,424	\$1,506,513
13	LNG Inventory Balance		\$4,868,042	\$4,357,827	\$4,007,229	\$3,806,168	\$3,696,956	\$3,591,665	\$4,492,960	\$5,243,279	\$5,128,152	\$5,013,026	\$5,286,166	\$5,303,072	
14	Cost of Capital	Dkt 4323	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	7.54%	
15	Return on Working Capital Requirement	(13) * (14)	\$367,050	\$328,580	\$302,145	\$286,985	\$278,750	\$270,812	\$338,769	\$395,343	\$386,663	\$377,982	\$398,577	\$399,852	\$4,131,508
16	Weighted Cost of Debt	Dkt 4323	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	2.86%	
17	Interest Charges Financed	(13) * (16)	\$139,226	\$124,634	\$114,607	\$108,856	\$105,733	\$102,722	\$128,499	\$149,958	\$146,665	\$143,373	\$151,184	\$151,668	\$1,567,124
18	Taxable Income	(15) - (17)	\$227,824	\$203,946	\$187,538	\$178,129	\$173,018	\$168,090	\$210,271	\$245,385	\$239,998	\$234,610	\$247,393	\$248,184	
19	1 - Combined Tax Rate	Dkt 4323	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	0.6500	
20	Return and Tax Requirement	(18) / (19)	\$350,499	\$313,764	\$288,521	\$274,044	\$266,181	\$258,600	\$323,493	\$377,516	\$369,227	\$360,938	\$380,604	\$381,821	\$3,945,207
21	Working Capital Requirement	(17) + (20)	\$489,725	\$438,397	\$403,127	\$382,900	\$371,914	\$361,321	\$451,992	\$527,474	\$515,892	\$504,310	\$531,788	\$533,489	\$5,512,331
22	Monthly Average	(21) / 12	\$40,810	\$36,533	\$33,594	\$31,908	\$30,993	\$30,110	\$37,666	\$43,956	\$42,991	\$42,026	\$44,316	\$44,457	\$459,361
23	System Balancing Factor	Dkt 4339	18.12%	18.12%	18.12%	18.12%	18.12%	18.12%	18.12%	18.12%	18.12%	18.12%	18.12%	18.12%	
24	Balancing Related Inventory Costs	(22) * (23)	\$7,395	\$6,620	\$6,087	\$5,782	\$5,616	\$5,456	\$6,825	\$7,965	\$7,790	\$7,615	\$8,030	\$8,056	\$83,236
25	Supply Related Inventory Costs	(22) - (24)	\$33,416	\$29,913	\$27,507	\$26,127	\$25,377	\$24,654	\$30,841	\$35,991	\$35,201	\$34,411	\$36,286	\$36,402	\$376,125

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

Line No.	Rate Class (a)	Nov-12 (b)	Dec-12 (c)	Jan-13 (d)	Feb-13 (e)	Mar-13 (f)	Apr-13 (g)	May-13 (h)	Jun-13 (i)	Jul-13 (j)	Aug-13 (k)	Sep-13 (l)	Oct-13 (m)	Nov-Oct (p)
<u>SALES (dth)</u>														
1	Residential Non-Heating	39,952	59,594	78,573	77,377	66,696	52,095	46,325	34,178	29,995	27,280	27,901	28,447	568,413
3	Residential Non-Heating Low Income													
4	Residential Heating	1,099,863	2,058,633	3,053,892	3,108,191	2,680,218	1,998,463	1,232,855	674,166	443,392	388,331	399,794	515,751	17,653,549
5	Residential Heating Low Income													
6	Small C&I	121,739	254,777	460,531	442,493	396,614	264,475	142,278	71,605	53,665	47,990	48,259	48,988	2,353,415
7	Medium C&I	207,209	321,417	519,131	539,951	483,907	330,411	217,747	126,281	99,812	92,066	97,084	111,258	3,146,273
8	Large LLF	48,903	79,494	120,029	125,067	113,419	85,261	41,244	22,552	14,944	12,089	12,648	20,290	695,940
9	Large HLF	18,760	21,377	27,399	24,235	24,333	20,881	19,186	13,244	13,661	14,634	16,000	14,038	227,748
10	Extra Large LLF	5,824	9,181	12,885	12,530	12,644	9,031	5,606	3,688	1,676	1,620	1,523	2,227	78,434
11	Extra Large HLF	13,476	17,573	12,539	15,845	13,744	11,686	13,141	12,780	10,719	10,388	11,956	12,260	156,107
12	Total Sales	1,555,727	2,822,047	4,284,978	4,345,689	3,791,575	2,772,304	1,718,381	958,496	667,864	594,397	615,165	753,258	24,879,878
<u>FT-2 TRANSPORTATION</u>														
13	FT-2 Medium	92,888	159,599	219,045	234,859	204,413	151,837	105,327	68,711	55,908	50,329	59,272	57,359	1,459,546
14	FT-2 Large LLF	60,687	110,429	167,936	167,051	155,037	122,409	66,369	40,157	19,655	15,980	19,047	29,944	974,700
15	FT-2 Large HLF	18,521	23,975	27,099	26,494	27,954	22,743	19,797	15,478	13,152	14,036	14,742	14,350	238,339
16	FT-2 Extra Large LLF	3,015	5,220	8,530	7,548	6,718	5,357	3,709	1,489	1,425	1,446	1,414	1,359	47,230
17	FT-2 Extra Large HLF	10,716	10,540	16,390	13,759	13,375	12,647	16,583	13,581	9,378	13,944	10,967	10,056	151,936
18	Total FT-2 Transportation	185,827	309,764	438,999	449,710	407,496	314,992	211,785	139,415	99,519	95,734	105,441	113,068	2,871,750
<u>FT-1 TRANSPORTATION</u>														
30	FT-1 Medium	64,555	104,616	100,799	116,392	78,431	58,267	35,837	31,717	27,590	30,317	32,063	44,379	724,960
31	FT-1 Large LLF	112,575	160,912	147,148	175,061	147,149	100,655	35,931	26,084	19,007	18,700	23,103	48,557	1,054,881
32	FT-1 Large HLF	41,150	47,549	45,469	53,143	51,539	38,283	35,595	31,525	28,811	30,886	31,785	29,909	465,644
33	FT-1 Extra Large LLF	100,336	147,424	160,905	156,041	130,124	84,853	38,595	18,532	15,411	15,140	20,782	46,507	934,650
34	FT-1 Extra Large HLF	<u>370,606</u>	<u>461,895</u>	<u>413,052</u>	<u>395,881</u>	<u>361,317</u>	<u>316,597</u>	<u>360,402</u>	<u>346,610</u>	<u>351,098</u>	<u>355,559</u>	<u>374,067</u>	<u>348,864</u>	<u>4,455,947</u>
35	Total FT-1 Transportation	689,221	922,394	907,373	896,517	768,560	598,655	506,360	454,467	441,917	450,601	481,800	518,216	7,636,083
<u>Total THROUGHPUT</u>														
36	Residential Non-Heating	39,952	59,594	78,573	77,377	66,696	52,095	46,325	34,178	29,995	27,280	27,901	28,447	568,413
37	Residential Heating	1,099,863	2,058,633	3,053,892	3,108,191	2,680,218	1,998,463	1,232,855	674,166	443,392	388,331	399,794	515,751	17,653,549
38	Small C&I	121,739	254,777	460,531	442,493	396,614	264,475	142,278	71,605	53,665	47,990	48,259	48,988	2,353,415
39	Medium C&I	364,651	585,632	838,975	891,201	766,750	540,515	358,911	226,708	183,310	172,711	188,419	212,996	5,330,780
40	Large LLF	222,164	350,835	475,113	467,179	415,605	308,325	143,544	88,793	53,607	46,769	54,797	98,791	2,725,521
41	Large HLF	78,431	92,901	99,967	103,872	103,826	81,907	74,577	60,247	55,624	59,555	62,527	58,297	931,731
42	Extra Large LLF	109,175	161,825	182,320	176,119	149,486	99,241	47,910	23,709	18,513	18,206	23,719	50,092	1,060,314
43	Extra Large HLF	<u>394,798</u>	<u>490,008</u>	<u>441,981</u>	<u>425,484</u>	<u>388,437</u>	<u>340,930</u>	<u>390,126</u>	<u>372,971</u>	<u>371,195</u>	<u>379,890</u>	<u>396,990</u>	<u>371,180</u>	<u>4,763,990</u>
44	Total Throughput	2,430,775	4,054,205	5,631,350	5,691,916	4,967,631	3,685,951	2,436,526	1,552,377	1,209,300	1,140,732	1,202,406	1,384,542	35,387,711

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

Line No.	Rate Class (a)	Nov-12 (b)	Dec-12 (c)	Jan-13 (d)	Feb-13 (e)	Mar-13 (f)	Total (h)	% (i)
<u>SALES (dth)</u>								
1	Residential Non-Heating	54,215	79,028	80,492	74,631	69,327	357,694	1.84%
2	Residential Heating	1,844,909	3,173,035	3,253,614	3,044,950	2,638,910	13,955,419	71.62%
3	Small C&I	255,693	445,790	457,341	428,306	369,222	1,956,353	10.04%
4	Medium C&I	325,338	538,712	551,596	515,197	453,307	2,384,150	12.23%
5	Large LLF	73,930	129,957	133,364	124,949	107,370	569,569	2.92%
6	Large HLF	20,759	26,871	27,216	25,036	24,585	124,467	0.64%
7	Extra Large LLF	8,101	14,104	14,469	13,550	11,687	61,911	0.32%
8	Extra Large HLF	13,546	16,328	16,476	15,077	15,345	76,772	0.39%
9	Total Sales	2,596,493	4,423,824	4,534,568	4,241,695	3,689,754	19,486,334	100.00%
10	Low Load Factor	2,507,972	4,301,598	4,410,384	4,126,951	3,580,496	18,927,401	97.13%
11	High Load Factor	88,521	122,227	124,183	114,744	109,258	558,933	2.87%

Attachment AEL-5R
Docket No. 4346
January 24, 2013
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**National Grid - RI Gas
Gas Cost Recovery (GCR) Filing
Summary of Marketer Transportation Factors**

<u>Item</u>	<u>Reference</u>	<u>Proposed</u>	<u>Billing Units</u>
FT-2 Demand	AEL-5R pg 2	\$7.4178	Dth/Mth
Weighted Average Upstream Pipeline Transportation Cost	EDA - 4	\$0.8601	Per Dth of capacity

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

Line No.	Description	Reference	Source	Line #	Amount
1	Storage Fixed Costs	AEL-1R pg 4		Line 55	\$11,398,130
	Less:				
2	LNG Demand to DAC	AEL-1R pg 2		Line 5	(\$622,659)
3	Credits				\$0
4	Refunds				\$0
5	Total Credits	sum [(2):(4)]			(\$622,659)
	Plus:				
6	Supply Related LNG O&M Costs	Dkt 4323			\$575,581
7	Working Capital Requirement	AEL-1R pg 9		Line 45	\$67,295
8	Total Additions	sum [(6):(7)]			\$642,876
9	Total Storage Fixed Costs	(1) + (5) + (8)			\$11,418,346
	Inventory Financing				
10		Underground	AEL-1R pg 10	Line 12	\$1,506,513
11		LNG	AEL-1R pg 10	Line 25	\$376,125
12	Total Storage Fixed Costs	(9) + (10) + (11)			\$13,300,984
13	LNG Storage MDQ (Dth)				111,857
14	AGT	EDA-4			31,641
15	TENN	EDA-4			10,836
16	Total Storage MDQ	sum [(13):(15)]			154,334
17	Storage MDQ X 12 Months	(16) *12			1,852,008 MDCQ Dth
18	FT- 2 Demand Rate	(12) / (17)			\$7.1819 per MDCQ Dth
19	Uncollectible %	Docket 4323			3.18%
20	Total FT-2 Demand Rate adjusted for Uncollectibles	(18) / [(1 - (19))]			\$7.4178 per MDCQ Dth

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

Line No.	Description	Reference	Source	Line #	Amount
1	FT- 2 Demand Rate	AEL-5R pg 2		Line 18	<u>\$7.1819</u> per MDCQ Dth
2	MDQ-U	Mkter MDQ Forecast			3,774
3	MDQ-P	Mkter MDQ Forecast			<u>9,877</u>
4	Marketer MDQs	(2) + (3)			13,651 Dth/Mth
5	FT-2 Storage Costs	(19) x (20) x 12 Months			\$1,176,483