

Division 2-1

Request:

Instruction: Each request for workpapers should be understood to include a request for all electronic spreadsheet files with all cell formulas and cell references in tact.

Re: The Direct Testimony of witness Leary, filed September 1, 2015.

Re: The September 1, 2015, Direct Testimony of witness Ann E. Leary, please provide quantitative analyses which demonstrate that the effective costs of capacity for C&I Sales service customers by C&I rate classification are to the effective costs of capacity for comparable FT-2 customers.

Response:

Please see Attachment DIV-2-1 that compares the fixed gas costs that the FT-2 customers would pay if they were on the Company's GCR rates as compared to the fixed gas costs the Marketers pay under the FT-2 Demand rate and the Pipeline capacity costs. For comparison purposes, the Company removed the prior period reconciliation, the Marketer Reconciliation and the Natural Gas Portfolio Management Plan ("NGPMP") credit<sup>1</sup> from its Fixed GCR rates. The pipeline capacity costs were based on the overall system average costs of capacity as calculated in Attachment EDA-4, page 8 of 10. The FT-2 charges are only \$56,771 more than the \$5.8 million in C&I sales costs the marketers would have incurred if they purchased C&I sales service at the forecasted level of transportation throughput.

The Company is providing .pdf and Excel versions of Attachment DIV 2-1. The electronic spreadsheet contains confidential data; therefore, the Company is providing one confidential CD-ROM to the Division of Public Utilities and Carriers and the Public Utilities Commission pursuant to a Motion for Protective Treatment. The Company has provided the .pdf version of Attachment DIV 2-1 for the public filing.

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<sup>1</sup> If the FT-2 customers returned to firm sales service, they would be eligible for a portion of the \$9.4 million NGPMP credit which is not reflected in this analysis.

Line No.		Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-Oct
	<b>FT-2 Transportation Throughput (Dth)</b>													
1	FT-2 Small	5,363	8,696	11,591	10,934	10,410	8,175	5,238	3,493	2,396	1,784	1,955	3,346	73,379
2	FT-2 Medium	116,254	207,445	266,810	298,622	260,087	202,000	125,812	76,347	62,475	52,133	51,923	70,785	1,790,692
3	FT-2 Large LLF	85,635	176,082	213,104	194,380	170,840	118,365	74,822	38,224	22,192	17,616	23,747	40,762	1,175,768
4	FT-2 Large HLF	36,448	55,894	60,460	61,700	61,188	51,237	38,321	33,537	30,995	26,823	29,753	31,262	517,619
5	FT-2 Extra Large LLF	3,479	7,573	9,869	9,130	8,702	7,085	4,136	2,653	1,545	1,077	1,137	2,512	58,897
6	FT-2 Extra Large HLF	8,165	16,006	16,820	16,632	16,304	19,080	8,702	10,049	7,675	8,741	7,882	8,139	144,195
7	<b>Total FT-2 Transportation</b>	<b>255,344</b>	<b>471,695</b>	<b>578,655</b>	<b>591,396</b>	<b>527,530</b>	<b>405,941</b>	<b>257,031</b>	<b>164,303</b>	<b>127,279</b>	<b>108,173</b>	<b>116,396</b>	<b>156,807</b>	<b>3,760,550</b>
8														
9	GCR Filed Fixed Rate	\$/therm												
10	HLF	\$1 1541	\$1 1541	\$1 1541	\$1 1541	\$1 1541	\$1 1541	\$1 1541	\$1 1541	\$1 1541	\$1 1541	\$1 1541	\$1 1541	
11	LLF	\$1 4984	\$1 4984	\$1 4984	\$1 4984	\$1 4984	\$1 4984	\$1 4984	\$1 4984	\$1 4984	\$1 4984	\$1 4984	\$1 4984	
12														
13	GCR Filed Fixed Rate excluding Prior period reconciliation and Marketer Reconciliation													
14	HLF	\$1 2353	\$1 2353	\$1 2353	\$1 2353	\$1 2353	\$1 2353	\$1 2353	\$1 2353	\$1 2353	\$1 2353	\$1 2353	\$1 2353	
15	LLF	\$1 6039	\$1 6039	\$1 6039	\$1 6039	\$1 6039	\$1 6039	\$1 6039	\$1 6039	\$1 6039	\$1 6039	\$1 6039	\$1 6039	
16														
17	<b>GCR Revenue Assuming Transportation Customers Paid GCR Rates</b>													
18	FT-2 Small	\$8,602	\$13,947	\$18,591	\$17,536	\$16,696	\$13,111	\$8,401	\$5,603	\$3,843	\$2,861	\$3,135	\$5,367	\$117,693
19	FT-2 Medium	\$186,460	\$332,721	\$427,937	\$478,959	\$417,153	\$323,988	\$201,789	\$122,453	\$100,203	\$83,616	\$83,279	\$113,532	\$2,872,090
20	FT-2 Large LLF	\$137,350	\$282,418	\$341,797	\$311,765	\$274,010	\$189,845	\$120,008	\$61,307	\$35,593	\$28,255	\$38,087	\$65,378	\$1,885,814
21	FT-2 Large HLF	\$45,024	\$69,045	\$74,686	\$76,219	\$75,586	\$63,293	\$47,337	\$41,429	\$38,289	\$33,135	\$36,754	\$38,618	\$639,415
22	FT-2 Extra Large LLF	\$5,580	\$12,146	\$15,829	\$14,643	\$13,957	\$11,363	\$6,634	\$4,255	\$2,478	\$1,727	\$1,823	\$4,029	\$94,465
23	FT-2 Extra Large HLF	\$10,086	\$19,773	\$20,778	\$20,545	\$20,140	\$23,570	\$10,750	\$12,413	\$9,481	\$10,797	\$9,737	\$10,054	\$178,124
24														
25	<b>Total</b>	<b>\$393,102</b>	<b>\$730,050</b>	<b>\$899,618</b>	<b>\$919,668</b>	<b>\$817,542</b>	<b>\$625,170</b>	<b>\$394,919</b>	<b>\$247,460</b>	<b>\$189,888</b>	<b>\$160,391</b>	<b>\$172,815</b>	<b>\$236,979</b>	<b>\$5,787,602</b>
26														
27	<b>Marketer Rates</b>													
28														
29	FT-2 Demand													
30	MDCQ	16,809	16,809	16,809	16,809	16,809	16,809	16,809	16,809	16,809	16,809	16,809	16,809	201,703
31	Marketer FT-2 Rate	\$8 5993	\$8 5993	\$8 5993	\$8 5993	\$8 5993	\$8 5993	\$8 5993	\$8 5993	\$8 5993	\$8 5993	\$8 5993	\$8 5993	
32	FT-2 Storage Costs	\$144,542	\$144,542	\$144,542	\$144,542	\$144,542	\$144,542	\$144,542	\$144,542	\$144,542	\$144,542	\$144,542	\$144,542	\$1,734,509
33														
34	FT-2													
35	Pipeline	MDCQ												
36	Marketer A	133	133	133	133	133	133	133	133	133	133	133	133	
37	Marketer B	13,070	13,070	13,070	13,070	13,070	13,070	13,070	13,070	13,070	13,070	13,070	13,070	
38	Marketer C	778	778	778	778	778	778	778	778	778	778	778	778	
39	Marketer D	1,455	1,455	1,455	1,455	1,455	1,455	1,455	1,455	1,455	1,455	1,455	1,455	
40	Marketer E	3,044	3,044	3,044	3,044	3,044	3,044	3,044	3,044	3,044	3,044	3,044	3,044	
41	Total	18,479	18,479	18,479	18,479	18,479	18,479	18,479	18,479	18,479	18,479	18,479	18,479	
42														
43	System Average Pipeline Cost	\$18 0217	\$18 0217	\$18 0217	\$18 0217	\$18 0217	\$18 0217	\$18 0217	\$18 0217	\$18 0217	\$18 0217	\$18 0217	\$18 0217	
44														
45														
46	Total Pipeline Capacity Costs	\$333,027	\$333,027	\$333,027	\$333,027	\$333,027	\$333,027	\$333,027	\$333,027	\$333,027	\$333,027	\$333,027	\$333,027	\$3,996,322
47														
48	Total Marketer Costs	\$477,569	\$477,569	\$477,569	\$477,569	\$477,569	\$477,569	\$477,569	\$477,569	\$477,569	\$477,569	\$477,569	\$477,569	\$5,730,831
49														
50	<b>Variance</b>	<b>(\$84,467)</b>	<b>\$252,480</b>	<b>\$422,049</b>	<b>\$442,098</b>	<b>\$339,973</b>	<b>\$147,601</b>	<b>(\$82,650)</b>	<b>(\$230,110)</b>	<b>(\$287,681)</b>	<b>(\$317,179)</b>	<b>(\$304,754)</b>	<b>(\$240,590)</b>	<b>\$56,771</b>

Division 2-2

Request:

Re: the September 1, 2015, Direct Testimony of witness Ann E. Leary at page 8, lines 4 to 14, please:

- a. Provide the workpapers, data, and analyses used to determine the referenced "normal sales" levels by rate class and in total for the system;
- b. Provide the workpapers, data, and analyses used to determine "normal" monthly degree days for the Company's Rhode Island service territory;
- c. Provide the workpapers, data, and analyses used to determine base gas use by month for customers in each rate classification.

Response:

- a. Please see Company's response to DIV 2-8.
- b. Please see Attachment DIV 2-8-c for the derivation of normal degree days.
- c. The base gas use by month by rate classification is provided in Docket 4576, Attachment AEL-1, Page 13. To derive the monthly base gas use, the Company first calculated the average daily base use by dividing the actual usage for the months of July through September by 92 days. The Company then multiplied the average daily base use by the number of days in each month to derive the monthly base use. The Company is providing the Excel version of Attachment DIV 2-2-c; the hard copy was provided in the Company's initial filing in Docket 4576, Attachment AEL-1, Page 13.

Division 2-3

Request:

Re: The September 1, 2015, Direct Testimony of witness Ann E. Leary at page 9, line 1, please verify that what is referenced as the "*projected throughput*" represents projected Firm Sales Service volumes and does not include any transportation service throughput volumes.

Response:

The "projected throughput" of 27,009,852 dekatherms found on page 9, line 1 represents the projected Firm Sales Service volumes and does not include any transportation service throughput volumes.

Division 2-4

Request:

Re: the September 1, 2015, Direct Testimony of witness Ann E. Leary at page 10, lines 5 through 9, please provide the workpapers, data and analyses supporting the Company's determination of the average load factor for each rate class for the 2015/16 GCR year, as well as the average annual load characteristics for the Company's:

- a. High load factor customers
- b. Low load factor customers

Response:

Please see Attachment DIV 2-4 for a calculation of the average load factor for each rate class for the 2015/2016 GCR year, as well as the average annual load factor for the High Load and Low Load sectors. Because the Company does not have a definition for load factor for the residential, and small and medium commercial customer classes, the Company used the definition of load factor as defined in the Company's Large and Extra Large High and Low load factor Rate Tariffs to respond to this question. Therefore, the Company calculated the load factor for each rate class by dividing the usage during the months of May through October by the total annual usage.

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

Line No.	Rate Class (a)	Nov-15 (b)	Dec-15 (c)	Jan-16 (d)	Feb-16 (e)	Mar-16 (f)	Apr-16 (g)	May-16 (h)	Jun-16 (i)	Jul-16 (j)	Aug-16 (k)	Sep-16 (l)	Oct-16 (m)	Nov-Oct (n)	May-Oct Usage (o)	Load Factor (p) = (o)/(n)		
<b>SALES</b>																		
(1)	Residential Non-Heating	48,049	71,423	92,942	107,427	113,117	87,291	46,799	31,200	24,471	22,307	24,221	28,799	698,046	177,797	25%		
(2)	Residential Heating	1,462,287	2,349,767	3,119,896	3,107,497	2,828,266	2,124,881	1,241,085	751,389	425,245	352,061	402,675	561,110	18,726,158	3,733,564	20%		
(3)	Small C&I	150,098	412,467	502,968	445,399	395,993	275,911	177,969	95,230	57,312	44,037	46,985	68,102	2,672,471	489,634	18%		
(4)	Medium C&I	226,941	423,681	566,157	652,912	564,095	387,529	229,766	134,838	110,007	97,621	98,729	129,347	3,621,622	800,308	22%		
(5)	Large LLF	52,508	109,572	132,377	117,870	103,702	71,427	44,582	22,548	12,314	8,822	12,359	21,893	709,974	122,518	17%		
(6)	Large HLF	14,538	19,318	23,722	22,322	14,405	15,209	13,872	14,726	14,458	19,582	13,117	14,091	199,360	89,846	45%		
(7)	Extra Large LLF	4,205	14,733	20,770	14,692	13,574	9,759	7,268	3,689	2,026	608	880	4,676	96,881	19,148	20%		
(8)	Extra Large HLF	28,920	35,960	25,159	16,451	15,315	18,775	20,994	18,775	20,994	22,523	20,767	18,159	33,250	29,065	285,339	144,758	51%
(9)	<b>Total Sales</b>	<b>1,987,546</b>	<b>3,436,921</b>	<b>4,483,993</b>	<b>4,484,568</b>	<b>4,048,466</b>	<b>2,990,783</b>	<b>1,782,336</b>	<b>1,076,142</b>	<b>666,599</b>	<b>563,198</b>	<b>632,216</b>	<b>857,084</b>	<b>27,009,852</b>	<b>5,577,574</b>	<b>21%</b>		
<b>TRANSPORTATION</b>																		
(10)	FT- Small	5,363	8,696	11,591	10,934	10,410	8,175	5,238	3,493	2,396	1,784	1,955	3,346	73,379	18,212	25%		
(11)	FT- Medium	193,275	303,653	384,203	409,058	350,625	258,521	165,741	108,354	92,475	80,448	81,394	117,046	2,544,794	645,459	25%		
(12)	FT- Large LLF	193,833	339,407	399,879	355,152	309,381	206,353	132,733	67,827	44,989	38,807	50,460	111,317	2,250,138	446,133	20%		
(13)	FT- Large HLF	78,709	105,298	118,838	117,330	111,436	91,120	73,563	66,700	62,218	57,547	61,167	68,286	1,012,211	389,481	38%		
(14)	FT- Extra Large LLF	116,250	179,379	208,355	171,056	151,292	100,183	69,941	37,280	26,627	19,847	24,917	84,065	1,189,192	262,677	22%		
(15)	FT- Extra Large HLF	533,656	588,830	624,359	560,165	522,493	446,653	405,972	390,417	390,118	438,007	440,474	476,331	5,817,476	2,541,319	44%		
(16)	<b>Total FT Transportation</b>	<b>1,121,086</b>	<b>1,525,264</b>	<b>1,747,225</b>	<b>1,623,694</b>	<b>1,455,637</b>	<b>1,111,005</b>	<b>853,188</b>	<b>674,071</b>	<b>618,824</b>	<b>636,439</b>	<b>660,367</b>	<b>860,391</b>	<b>12,887,190</b>	<b>4,303,280</b>	<b>33%</b>		
<b>Total THROUGHPUT</b>																		
(17)	Residential Non-Heating	48,049	71,423	92,942	107,427	113,117	87,291	46,799	31,200	24,471	22,307	24,221	28,799	698,046	177,797	25%		
(18)	Residential Heating	1,462,287	2,349,767	3,119,896	3,107,497	2,828,266	2,124,881	1,241,085	751,389	425,245	352,061	402,675	561,110	18,726,158	3,733,564	20%		
(19)	Small C&I	155,461	421,162	514,559	456,333	406,402	284,086	183,207	98,723	59,708	45,820	48,939	71,448	2,745,850	507,846	18%		
(20)	Medium C&I	420,216	727,334	950,359	1,061,970	914,719	646,050	395,507	243,192	202,482	178,069	180,123	246,393	6,166,416	1,445,767	23%		
(21)	Large LLF	246,341	448,979	532,256	473,022	413,083	277,780	177,316	90,375	57,303	47,629	62,819	133,210	2,960,112	568,651	19%		
(22)	Large HLF	93,247	124,616	142,561	139,651	125,841	106,329	87,434	81,426	76,676	77,128	74,285	82,377	1,211,571	479,327	40%		
(23)	Extra Large LLF	120,455	194,113	229,125	185,747	164,866	109,943	77,210	40,969	28,653	20,455	25,797	88,741	1,286,814	281,825	22%		
(24)	Extra Large HLF	<u>562,576</u>	<u>624,790</u>	<u>649,519</u>	<u>576,616</u>	<u>537,808</u>	<u>465,429</u>	<u>426,966</u>	<u>412,940</u>	<u>410,885</u>	<u>456,167</u>	<u>473,724</u>	<u>505,396</u>	<u>6,102,874</u>	<u>2,686,077</u>	<u>44%</u>		
(25)	<b>Total Throughput</b>	<b>3,108,633</b>	<b>4,962,185</b>	<b>6,231,217</b>	<b>6,108,262</b>	<b>5,504,103</b>	<b>4,101,788</b>	<b>2,635,524</b>	<b>1,750,213</b>	<b>1,285,422</b>	<b>1,199,637</b>	<b>1,292,583</b>	<b>1,717,475</b>	<b>39,897,042</b>	<b>9,880,854</b>	<b>25%</b>		
(26)	<b>Low Load Factor</b>	2,404,760	4,141,356	5,346,196	5,284,569	4,727,337	3,442,740	2,074,324	1,224,648	773,391	644,035	720,354	1,100,903	31,884,610	6,537,653	21%		
(27)	<b>High Load Factor</b>	703,872	820,829	885,022	823,693	776,766	659,048	561,200	525,566	512,032	555,602	572,229	616,572	8,012,431	3,343,201	42%		
(28)	<b>Total</b>	<b>3,108,633</b>	<b>4,962,185</b>	<b>6,231,217</b>	<b>6,108,262</b>	<b>5,504,103</b>	<b>4,101,788</b>	<b>2,635,524</b>	<b>1,750,213</b>	<b>1,285,422</b>	<b>1,199,637</b>	<b>1,292,583</b>	<b>1,717,475</b>	<b>39,897,042</b>	<b>9,880,854</b>	<b>25%</b>		

Division 2-5

Request:

Re: the September 1, 2015, Direct Testimony of witness Ann E. Leary at page 10, lines 17 through 19, please:

- a. Identify the "peaking inventory" that marketers actually purchased from National Grid for each of the last three winter seasons (and if possible, show the amounts purchased by marketers for each gas supply month);
- b. Indicate where in the Company's 2015/16 gas cost projections the anticipated marketer purchase volumes and costs, as well as the revenues that Company expects to receive from such purchases of peaking inventory, are reflected;
- c. Demonstrate the manner in which actual marketer purchases of storage inventory are reflected in the Company's filed gas cost reconciliations for the year ended March 31, 2015.

Response:

- a. The "peaking" inventory that marketers actually purchased from National Grid for each of the last three winter seasons is shown in Attachment DIV 2-5-a. The Company is providing .pdf and Excel versions of Attachment DIV 2-5-a.
- b. The 2015/16 gas cost projections represent the gas costs for firm sales customers only, and therefore the anticipated marketer peaking volumes and costs, as well as the associated revenues, are not included in the 2015/16 gas cost projections.
- c. The marketer purchases of storage inventory are included in the Marketer Overtakes/Undertakes credits/charges in Attachment AEL-2, Page 4, Line 105. The costs reflected on this line have been reduced for marketer purchases of storage inventory.

Peaking Withdrawals (Dth)  
Rhode Island

Line No.	Marketer Purchases by Month			
(1)	Marketer A			
(2)		2012/13	2013/14	2014/15
(3)	Nov	-	2,357	-
(4)	Dec	-	494	-
(5)	Jan	22,084	3,245	20,400
(6)	Feb	2,067	1,300	32,354
(7)	Mar	<u>5,591</u>	<u>-</u>	<u>-</u>
(8)	Subtotal	29,742	7,396	52,754
(9)	Marketer B			
(10)		2012/13	2013/14	2014/15
(11)	Nov	-	646	-
(12)	Dec	-	158	-
(13)	Jan	376	961	-
(14)	Feb	717	-	-
(15)	Mar	<u>891</u>	<u>-</u>	<u>-</u>
(16)	Subtotal	1,984	1,765	-
(17)	Marketer C			
(18)		2012/13	2013/14	2014/15
(19)	Nov	-	-	-
(20)	Dec	-	644	-
(21)	Jan	137	-	-
(22)	Feb	625	-	1,707
(23)	Mar	<u>132</u>	<u>-</u>	<u>66</u>
(24)	Subtotal	894	644	1,773
(25)	Marketer D			
(26)		2012/13	2013/14	2014/15
(27)	Nov	-	-	-
(28)	Dec	-	553	-
(29)	Jan	1,465	4,369	5,066
(30)	Feb	2,550	95	1,536
(31)	Mar	<u>2,044</u>	<u>1,150</u>	<u>79</u>
(32)	Subtotal	6,059	6,167	6,681



Peaking Withdrawals (Dth)  
Rhode Island

Line No.	Marketer Purchases by Month	2012/13	2013/14	2014/15	Total 2012-2015
(33)	Marketer E				
(34)		2012/13	2013/14	2014/15	
(35)	Nov	-	-	-	
(36)	Dec	-	-	-	
(37)	Jan	2,072	4,011	1,485	
(38)	Feb	733	-	4,429	
(39)	Mar	<u>2,431</u>	<u>-</u>	<u>-</u>	
(40)	Subtotal	5,236	4,011	5,914	
(41)	Marketer F				
(42)		2012/13	2013/14	2014/15	
(43)	Nov	-	55	-	
(44)	Dec	-	138	-	
(45)	Jan	105	414	1,389	
(46)	Feb	-	-	1,154	
(47)	Mar	<u>-</u>	<u>47</u>	<u>263</u>	
(48)	Subtotal	105	654	2,806	
(49)	Total Peaking Withdrawals (Dth)				
(50)		2012/13	2013/14	2014/15	Total 2012-2015
(51)	Total Peaking Withdrawals (E	44,020	20,637	69,928	134,585

Division 2-6

Request:

Re: the September 1, 2015, Direct Testimony of witness Ann E. Leary at pages 11-13:

- a. Please document the months for which the reported cancel and rebill amounts are associated and the volumes associated with each historic month for which a prior billing was cancelled and rebilled;
- b. With respect to the witness' discussion of "normal" sales at page 8, lines 4-14, please explain and document the manner in which:
  - i. The referenced "accruals/reversals" were accounted for in the computation of "normal" throughput volumes for each rate classification;
  - ii. The referenced "billing adjustments" were accounted for in the Company's determination of "normal" throughput volumes for each rate classification.

Response:

- a. Attachment DIV 2-6-a documents the month in which the reported cancel and rebill amounts were originally billed. The Company is providing both PDF and Excel versions of Attachment DIV 2-6-a.
- b.
  - i. The referenced "accruals/reversals" are accounting entries and therefore were not included in the computation of "normal" throughput volumes which is based on billing information. Please see the Company's response to DIV 2-8 for an explanation of the methodology used to derive normal throughput volumes for each rate classification.
  - ii. As part of the normal forecasting process, the Company restates the historical billing data to correct for billing adjustments. However, the Company cannot verify that these small adjustments detailed in Attachment AEL-8 were reflected in the proper period. Please see the Company's response to DIV 2-8 for an explanation of the effort the Company applies to clean its historical data of these various billing adjustments to derive accurate volume and meter count data for each rate classification in preparation for its annual gas load forecasting.

<u>Line No.</u>	<u>Customer</u>	<u>Adjusted Bill Month</u>	<u>Original Bill Month</u>	<u>Rate Class</u>	<u>Volume (dth)</u>	<u>Reference</u>	
1		Cancel Dec 2013-Feb 2014 on TSS					
2	1	Apr-2014	Dec-2013	TSS	(1,341)		
3	1	Apr-2014	Jan-2014	TSS	(3,300)		
4	1	Apr-2014	Feb-2014	TSS	(6,419)		
5					<u>(11,060)</u>	AEL-8, Page 5, Ln 283, Col (a)	
6							
7		Rebill Dec 2013-Feb 2014 Bill on Default					
8	1	Apr-2014	Dec-2013 - Jan-2014	Default	11,060	AEL-8, Page 5, Ln 263, Col (a)	
9							
10		<b>Net Adjustment for Customer 1:</b>			<b>0</b>		
11		Cancel Feb 2014-Jun 2014					
12	2	Aug-2014	Feb-2014	XL High Load	(14,004)		
13	2	Aug-2014	Mar-2014	XL High Load	(14,522)		
14	2	Aug-2014	Apr-2014	XL High Load	(16,078)		
15	2	Aug-2014	May-2014	XL High Load	(6,291)		
16	2	Aug-2014	Jun-2014	XL High Load	<u>(1)</u>		
17					(50,896)		
18							
19		Rebill Feb 2014-Jun 2014 at lesser volumes					
20	2	Aug-2014	Feb-2014 - Jun-2014	XL High Load	29,975		
21							
22		<b>Net Adjustment for Customer 2:</b>			<b>(20,921)</b>		AEL-8, Page 5, Ln 255, Col (e)
23		Cancel May 2013-Jul 2014 on XL High Load					
24	3	Sep-2014	May-2013	XL High Load	(4,753)		
25	3	Sep-2014	Jun-2013 - Jul-2013	XL High Load	(5,194)		
26	3	Sep-2014	Aug-2013	XL High Load	(6,155)		
27	3	Sep-2014	Sep-2013	XL High Load	(5,511)		
28	3	Sep-2014	Oct-2013	XL High Load	(7,338)		
29	3	Sep-2014	Nov-2013	XL High Load	(8,160)		
30	3	Sep-2014	Dec-2013	XL High Load	(7,783)		
31	3	Sep-2014	Jan-2014	XL High Load	(7,667)		
32	3	Sep-2014	Feb-2014	XL High Load	(4,851)		
33	3	Sep-2014	Mar-2014	XL High Load	(6,968)		
34	3	Sep-2014	Apr-2014	XL High Load	(4,099)		
35	3	Sep-2014	May-2014	XL High Load	(4,066)		
36	3	Sep-2014	Jun-2014	XL High Load	(2,626)		
37	3	Sep-2014	Jul-2014	XL High Load	<u>(1,640)</u>		
38					(76,811)	AEL-8, Page 5, Ln 255, Col (f)	
39		Rebill May-2013 - Jul-2014 on Default					
40	3	Oct-2014	May-2013 - Jul-2014		78,960	AEL-8, Page 5, Ln 283, Col (g)	
41							
42		<b>Net Adjustment for Customer 3:</b>			<b>2,149</b>		

<u>Line No.</u>	<u>Customer</u>	<u>Adjusted Bill Month</u>	<u>Original Bill Month</u>	<u>Rate Class</u>	<u>Volume (dth)</u>	<u>Reference</u>
43	Cancel Feb 2012-Sep 2014, rebill Feb 2012-Aug 2012					
44	4	Nov-2014	Feb-2012	XL High Load	(7,179)	
45	4	Nov-2014	Mar-2012	XL High Load	(5,428)	
46	4	Nov-2014	Apr-2012	XL High Load	(5,832)	
47	4	Nov-2014	May-2012	XL High Load	(4,197)	
48	4	Nov-2014	Jun-2012	XL High Load	(1)	
49	4	Nov-2014	Jul-2012	XL High Load	(1)	
50	4	Nov-2014	Aug-2012	XL High Load	(1)	
51	4	Nov-2014	Sep-2012	XL High Load	(1)	
52	4	Nov-2014	Oct-2012	XL High Load	(6,486)	
53	4	Nov-2014	Nov-2012	XL High Load	(11,752)	
54	4	Nov-2014	Dec-2012	XL High Load	(10,813)	
55	4	Nov-2014	Jan-2013	XL High Load	(13,966)	
56	4	Nov-2014	Feb-2013	XL High Load	(13,966)	
57	4	Nov-2014	Mar-2013	XL High Load	(15,411)	
58	4	Nov-2014	Apr-2013	XL High Load	(14,959)	
59	4	Nov-2014	May-2013	XL High Load	(19,302)	
60	4	Nov-2014	Jun-2013	XL High Load	(4,295)	
61	4	Nov-2014	Jul-2013	XL High Load	(6,022)	
62	4	Nov-2014	Aug-2013	XL High Load	(6,259)	
63	4	Nov-2014	Sep-2013	XL High Load	(5,236)	
64	4	Nov-2014	Oct-2013	XL High Load	(7,097)	
65	4	Nov-2014	Nov-2013	XL High Load	(10,169)	
66	4	Nov-2014	Dec-2013	XL High Load	(12,060)	
67	4	Nov-2014	Jan-2014	XL High Load	(12,214)	
68	4	Nov-2014	Feb-2014	XL High Load	(11,656)	
69	4	Nov-2014	Mar-2014	XL High Load	(9,302)	
70	4	Nov-2014	Apr-2014	XL High Load	(7,055)	
71	4	Nov-2014	May-2014	XL High Load	(5,871)	
72	4	Nov-2014	Jun-2014	XL High Load	(5,961)	
73	4	Nov-2014	Jul-2014	XL High Load	(4,702)	
74	4	Nov-2014	Aug-2014	XL High Load	(4,570)	
75	4	Nov-2014	Sep-2014	XL High Load	(2,431)	
76	4	Nov-2014	Feb-2012 - Aug-2012	XL High Load	51,293	
77					(192,903)	AEL-8, Page 5, Ln 255, Col (h)
78	Rebill Sep 2012-Nov 2013					
79	4	Dec-2014	Sep-2012 - Nov-2013	XL High Load	119,434	AEL-8, Page 5, Ln 255, Col (i)
80	Rebill Dec 2013-Sep 2014					
81	4	Jan-2015	Dec-2013 - Sep-2014	XL High Load	75,822	AEL-8, Page 5, Ln 255, Col (j)
82						
83	<b>Net Adjustment for Customer 4:</b>				<b>2,353</b>	
84	<b>Total Adjustment:</b>				<b>(16,419)</b>	AEL-8, Page 5, Ln 305, Col (m)

Division 2-7

Request:

Re: Attachment AEL-1, page 11 of 15, please provide:

- a. The Company's projections of the numbers of Small C&I customers that will migrate from Sales service to FT-2 Transportation Service in each month of the 2015-2016 GCR period.
- b. The Company's projections of the Small C&I customer volumes that will migrate from Sales service to FT-2 Transportation Service in each month of the 2015-2016 GCR period.
- c. The number of Small C&I customers and associated annual normal weather volumes that have migrated from Sales service to FT-2 Transportation Service to date.

Response:

- a. In developing its forecast of volumes and meter count for the 2015-16 GCR filing, the Company modeled each rate class independently. Its forecast includes only the net volumes and meter count for Small C&I Sales and Small C&I Transport, individually; it does not forecast the number of Small C&I customers that will migrate from Sales Service to FT-2 Transportation Service in each month of the 2015-16 GCR period.

Figure 1 below shows the monthly forecasted meter count for each rate class.

Division 2-7, page 2

Month	Small C&I	
	Sales	Transport
Nov-2015	18,546	272
Dec-2015	18,730	276
Jan-2016	18,979	281
Feb-2016	19,164	286
Mar-2016	19,261	289
Apr-2016	19,218	289
May-2016	19,141	287
Jun-2016	19,026	286
Jul-2016	18,894	284
Aug-2016	18,778	283
Sep-2016	18,644	282
Oct-2016	18,672	283
Net Change	126	11

**Figure 1**

- b. In developing its forecast of volumes and meter count for the 2015-16 GCR filing, the Company modeled each rate class independently. Its forecast includes only the net volumes and meter count for Small C&I Sales and Small C&I Transport, individually; it does not forecast the volumes associated with the Small C&I customers that will migrate from Sales Service to FT-2 Transportation Service in each month of the 2015-16 GCR period.

Figure 2 below shows the monthly forecasted volumes (in therms) for each rate class.

Division 2-7, page 3

Month	Small C&I	
	Sales	Transport
Nov-2015	1,500,982	53,629
Dec-2015	4,124,669	86,956
Jan-2016	5,029,685	115,909
Feb-2016	4,453,994	109,336
Mar-2016	3,959,928	104,096
Apr-2016	2,759,113	81,747
May-2016	1,779,687	52,379
Jun-2016	952,300	34,934
Jul-2016	573,116	23,963
Aug-2016	440,369	17,835
Sep-2016	469,847	19,547
Oct-2016	681,021	33,460
Total	26,724,712	733,790

**Figure 2**

- c. The Company's historical data only includes the net volumes and meter count for Small C&I Sales and Small C&I Transport, and it does not contain the data on volumes and meter count associated with migration from Sales Service to FT-2 Transportation Service.

Division 2-8

Request:

Re: Attachment AEL-1, page 11 of 15, please provide the workpapers, data, analyses, studies and other documents supporting the development of the Company's forecast normal weather sales and throughput by rate classification for the period from November 2015 through October 2016.

Response:

The Company's annual retail forecast is produced through analysis written in MATLAB code and the Company's databases.

Attachment DIV 2-8-A contains the historical volume and meter count data by rate code. Prior to producing its annual forecast, the Company will review all input billing data to ensure that the data is clean. Additionally, it will review all cancels/rebills within the billing system to best align its volume data to the proper billing months.

Attachment DIV 2-8-B contains the historical economic data used in the Company's analysis.

Attachment DIV 2-8-C contains the Company's normal degree day data.

Attachments DIV 2-8-A, DIV 2-8-B and DIV 2-8-C will be provided in Excel format on CD-ROM.



Division 2-9

Request:

Re: Attachment AEL-1, page 10 of 15, please provide the workpapers, data, analyses, studies and other documents upon which the Company relies to derive the projected monthly dollar amounts for:

- a. Storage Inventory Balance on line 1,
- b. LNG Inventory Balance on line 13.

Response:

- a. Please see Attachment EDA-2, page 15 that was filed in Docket No. 4576 on September 1, 2015. The Company is providing the Excel version of Attachment EDA-2, page 15 only because the hard copy was provided in the Company's initial filing.
- b. Please see Attachment EDA-2, page 17 that was filed in Docket No. 4576 on September 1, 2015. The Company is providing the electronic spreadsheet which contains confidential data; therefore, the Company is providing one confidential CD-ROM to the Division of Public Utilities and Carriers and the Public Utilities Commission pursuant to a Motion for Protective Treatment. Hard copies of both the redacted and confidential versions were provided in the Company's initial filing.

Division 2-10

Request:

Re: Attachment AEL-1, page 11 of 15, please provide the workpapers, data, analyses, studies and other documents supporting the development of the Company's forecast normal weather sales and throughput by rate classification for the period from November 2015 through October 2016.

Response:

As this is the same question posed in DIV 2-8, please refer to the Company's response to DIV 2-8.

Division 2-11

Request:

Re: Attachment AEL-4, please provide:

- a. Versions of the bill impact analyses that reflect the Company's projected "Average Customer" consumption for each rate class, for the 2015-2016 GCR period,
- b. Please provide the high, low and median use per customer for each rate class that the Company actually experienced in each of its last three most recently completed GCR periods.

Response:

- a. Please see Attachment DIV 2-11a for the bill impact analyses reflecting the Company's projected "Average Customer" consumption for each rate class for the 2015-2016 GCR period. The Company is providing both .pdf and Excel versions of Attachment DIV 2-11a. The Excel version includes the backup data used to create the attachment.
- b. Please see Attachment DIV 2-11 b for the high, low and median use per customer for each rate class that the Company actually experienced in the 2012-2013, 2013-2014, and 2014-2015 GCR periods (with projected use for September through October 2015). The Company is providing both .pdf and Excel versions of Attachment DIV 2-11 b. The Excel version includes the backup data used to create the attachment.

**National Grid - RI Gas  
Gas Cost Recovery (GCR) Filing  
Bill Impact Analysis with Various Levels of Consumption<sup>1</sup>:**

Line No.	Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference	% Chg	Difference due to:						
						GCR	Base DAC	DAC	ISR	EE	LIHEAP	GET
<b>Residential Heating:</b>												
(1)												
(2)												
(3)												
(4)												
(5)	556	\$808.83	\$887.78	(\$78.95)	-8.9%	(\$79.23)	\$2.65	\$0.00	\$0.00	\$0.00	(\$2.37)	
(6)	616	\$877.21	\$964.68	(\$87.46)	-9.1%	(\$87.79)	\$2.95	\$0.00	\$0.00	\$0.00	(\$2.62)	
(7)	677	\$946.75	\$1,042.85	(\$96.09)	-9.2%	(\$96.48)	\$3.27	\$0.00	\$0.00	\$0.00	(\$2.88)	
(8)	736	\$1,013.98	\$1,118.48	(\$104.49)	-9.3%	(\$104.88)	\$3.52	\$0.00	\$0.00	\$0.00	(\$3.13)	
(9)	796	\$1,079.47	\$1,192.48	(\$113.01)	-9.5%	(\$113.44)	\$3.82	\$0.00	\$0.00	\$0.00	(\$3.39)	
(10)	<b>Average Customer</b>	<b>856</b>	<b>\$1,142.93</b>	<b>\$1,264.36</b>	<b>(\$121.42)</b>	<b>-9.6%</b>	(\$121.89)	\$4.11	\$0.00	\$0.00	\$0.00	(\$3.64)
(11)	916	\$1,206.31	\$1,336.34	(\$130.03)	-9.7%	(\$130.53)	\$4.40	\$0.00	\$0.00	\$0.00	(\$3.90)	
(12)	974	\$1,267.31	\$1,405.57	(\$138.26)	-9.8%	(\$138.80)	\$4.69	\$0.00	\$0.00	\$0.00	(\$4.15)	
(13)	1,035	\$1,330.25	\$1,477.21	(\$146.96)	-9.9%	(\$147.49)	\$4.94	\$0.00	\$0.00	\$0.00	(\$4.41)	
(14)	1,096	\$1,393.01	\$1,548.57	(\$155.56)	-10.0%	(\$156.15)	\$5.26	\$0.00	\$0.00	\$0.00	(\$4.67)	
(15)	1,155	\$1,452.17	\$1,616.16	(\$163.99)	-10.1%	(\$164.61)	\$5.54	\$0.00	\$0.00	\$0.00	(\$4.92)	

Line No.	Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference	% Chg	Difference due to:						
						GCR	Base DAC	DAC	ISR	EE	LIHEAP	GET
<b>Residential Heating Low Income:</b>												
(16)												
(17)												
(18)												
(19)												
(20)	556	\$766.10	\$845.05	(\$78.95)	-9.3%	(\$79.23)	\$2.65	\$0.00	\$0.00	\$0.00	(\$2.37)	
(21)	616	\$831.66	\$919.13	(\$87.46)	-9.5%	(\$87.79)	\$2.95	\$0.00	\$0.00	\$0.00	(\$2.62)	
(22)	677	\$898.33	\$994.43	(\$96.09)	-9.7%	(\$96.48)	\$3.27	\$0.00	\$0.00	\$0.00	(\$2.88)	
(23)	736	\$962.79	\$1,067.28	(\$104.49)	-9.8%	(\$104.88)	\$3.52	\$0.00	\$0.00	\$0.00	(\$3.13)	
(24)	796	\$1,025.75	\$1,138.76	(\$113.01)	-9.9%	(\$113.44)	\$3.82	\$0.00	\$0.00	\$0.00	(\$3.39)	
(25)	<b>Average Customer</b>	<b>856</b>	<b>\$1,086.86</b>	<b>\$1,208.28</b>	<b>(\$121.42)</b>	<b>-10.0%</b>	(\$121.89)	\$4.11	\$0.00	\$0.00	\$0.00	(\$3.64)
(26)	916	\$1,147.94	\$1,277.97	(\$130.03)	-10.2%	(\$130.53)	\$4.40	\$0.00	\$0.00	\$0.00	(\$3.90)	
(27)	974	\$1,206.74	\$1,344.99	(\$138.26)	-10.3%	(\$138.80)	\$4.69	\$0.00	\$0.00	\$0.00	(\$4.15)	
(28)	1,035	\$1,267.45	\$1,414.41	(\$146.96)	-10.4%	(\$147.49)	\$4.94	\$0.00	\$0.00	\$0.00	(\$4.41)	
(29)	1,096	\$1,328.03	\$1,483.59	(\$155.56)	-10.5%	(\$156.15)	\$5.26	\$0.00	\$0.00	\$0.00	(\$4.67)	
(30)	1,155	\$1,385.23	\$1,549.21	(\$163.99)	-10.6%	(\$164.61)	\$5.54	\$0.00	\$0.00	\$0.00	(\$4.92)	

**National Grid - RI Gas  
Gas Cost Recovery (GCR) Filing  
Bill Impact Analysis with Various Levels of Consumption<sup>1</sup>:**

**Residential Non-Heating:**

(31)	(32)	Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference	% Chg	Difference due to:												
							GCR	DAC		EE	LIHEAP	GET							
								Base DAC	ISR										
(33)	(34)																		
(35)	(36)	222	\$423.24	\$453.59	(\$30.35)	-6.7%	(\$33.69)	\$4.25	\$0.00	\$0.00	\$0.00	\$0.00	(\$0.91)						
(36)	(37)	246	\$450.62	\$484.27	(\$33.65)	-6.9%	(\$37.33)	\$4.69	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.01)						
(37)	(38)	267	\$474.62	\$511.14	(\$36.52)	-7.1%	(\$40.53)	\$5.11	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.10)						
(38)	(39)	292	\$503.16	\$543.07	(\$39.92)	-7.4%	(\$44.31)	\$5.59	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.20)						
(39)	(40)	316	\$530.54	\$573.77	(\$43.23)	-7.5%	(\$47.96)	\$6.03	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.30)						
(40)	(41)	<b>Average Customer</b>	<b>340</b>	<b>\$557.71</b>	<b>\$604.20</b>	<b>(\$46.49)</b>	<b>-7.7%</b>	<b>(\$51.56)</b>	<b>\$6.46</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>(\$1.39)</b>						
(41)	(42)	363	\$584.24	\$633.89	(\$49.65)	-7.8%	(\$55.09)	\$6.93	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.49)						
(42)	(43)	388	\$612.76	\$665.86	(\$53.10)	-8.0%	(\$58.90)	\$7.39	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.59)						
(43)	(44)	410	\$637.85	\$693.96	(\$56.11)	-8.1%	(\$62.25)	\$7.82	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.68)						
(44)	(45)	433	\$664.11	\$723.35	(\$59.25)	-8.2%	(\$65.74)	\$8.27	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.78)						
(45)		460	\$694.93	\$757.85	(\$62.92)	-8.3%	(\$69.80)	\$8.77	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.89)						

**Residential Non-Heating Low Income:**

(46)	(47)	Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference	% Chg	Difference due to:						
							GCR	DAC		EE	LIHEAP	GET	
								Base DAC	ISR				
(48)	(49)												
(50)	(51)	222	\$397.11	\$427.46	(\$30.35)	-7.1%	(\$33.69)	\$4.25	\$0.00	\$0.00	\$0.00	\$0.00	(\$0.91)
(51)	(52)	246	\$423.41	\$457.06	(\$33.65)	-7.4%	(\$37.33)	\$4.69	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.01)
(52)	(53)	267	\$446.46	\$482.97	(\$36.52)	-7.6%	(\$40.53)	\$5.11	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.10)
(53)	(54)	292	\$473.86	\$513.78	(\$39.92)	-7.8%	(\$44.31)	\$5.59	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.20)
(54)	(55)	316	\$500.16	\$543.39	(\$43.23)	-8.0%	(\$47.96)	\$6.03	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.30)
(55)	(56)	<b>Average Customer</b>	<b>340</b>	<b>\$526.25</b>	<b>\$572.74</b>	<b>(\$46.49)</b>	<b>-8.1%</b>	<b>(\$51.56)</b>	<b>\$6.46</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>(\$1.39)</b>
(56)	(57)	363	\$551.73	\$601.38	(\$49.65)	-8.3%	(\$55.09)	\$6.93	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.49)
(57)	(58)	388	\$579.12	\$632.22	(\$53.10)	-8.4%	(\$58.90)	\$7.39	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.59)
(58)	(59)	410	\$603.21	\$659.33	(\$56.11)	-8.5%	(\$62.25)	\$7.82	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.68)
(59)	(60)	433	\$628.43	\$687.68	(\$59.25)	-8.6%	(\$65.74)	\$8.27	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.78)
(60)		460	\$658.03	\$720.95	(\$62.92)	-8.7%	(\$69.80)	\$8.77	\$0.00	\$0.00	\$0.00	\$0.00	(\$1.89)

**National Grid - RI Gas  
Gas Cost Recovery (GCR) Filing  
Bill Impact Analysis with Various Levels of Consumption<sup>1</sup>:**

**C & I Small:**

(61)	(62)	Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference	% Chg	Difference due to:					
							GCR	DAC		EE	LIHEAP	GET
								Base DAC	ISR			
(65)		930	\$1,359.34	\$1,494.72	(\$135.38)	-9.1%	(\$132.53)	\$1.21	\$0.00	\$0.00	\$0.00	(\$4.06)
(66)		1,029	\$1,454.20	\$1,603.94	(\$149.74)	-9.3%	(\$146.62)	\$1.37	\$0.00	\$0.00	\$0.00	(\$4.49)
(67)		1,130	\$1,551.44	\$1,715.90	(\$164.45)	-9.6%	(\$161.01)	\$1.49	\$0.00	\$0.00	\$0.00	(\$4.93)
(68)		1,230	\$1,646.47	\$1,825.52	(\$179.05)	-9.8%	(\$175.27)	\$1.59	\$0.00	\$0.00	\$0.00	(\$5.37)
(69)		1,331	\$1,738.80	\$1,932.55	(\$193.74)	-10.0%	(\$189.67)	\$1.74	\$0.00	\$0.00	\$0.00	(\$5.81)
(70)	<b>Average Customer</b>	1,430	<b>\$1,829.48</b>	<b>\$2,037.59</b>	<b>(\$208.11)</b>	<b>-10.2%</b>	(\$203.74)	\$1.87	\$0.00	\$0.00	\$0.00	(\$6.24)
(71)		1,530	\$1,920.78	\$2,143.44	(\$222.66)	-10.4%	(\$218.01)	\$2.03	\$0.00	\$0.00	\$0.00	(\$6.68)
(72)		1,629	\$2,010.64	\$2,247.78	(\$237.14)	-10.6%	(\$232.15)	\$2.12	\$0.00	\$0.00	\$0.00	(\$7.11)
(73)		1,730	\$2,102.62	\$2,354.45	(\$251.82)	-10.7%	(\$246.54)	\$2.27	\$0.00	\$0.00	\$0.00	(\$7.55)
(74)		1,832	\$2,194.83	\$2,461.54	(\$266.71)	-10.8%	(\$261.07)	\$2.36	\$0.00	\$0.00	\$0.00	(\$8.00)
(75)		1,930	\$2,282.91	\$2,563.85	(\$280.94)	-11.0%	(\$275.02)	\$2.51	\$0.00	\$0.00	\$0.00	(\$8.43)

**C & I Medium:**

(76)	(77)	Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference	% Chg	Difference due to:					
							GCR	DAC		EE	LIHEAP	GET
								Base DAC	ISR			
(80)		7,987	\$8,259.96	\$9,473.65	(\$1,213.69)	-12.8%	(\$1,138.14)	(\$39.14)	\$0.00	\$0.00	\$0.00	(\$36.41)
(81)		8,852	\$9,059.20	\$10,404.33	(\$1,345.13)	-12.9%	(\$1,261.41)	(\$43.37)	\$0.00	\$0.00	\$0.00	(\$40.35)
(82)		9,711	\$9,853.49	\$11,329.13	(\$1,475.64)	-13.0%	(\$1,383.79)	(\$47.58)	\$0.00	\$0.00	\$0.00	(\$44.27)
(83)		10,571	\$10,649.09	\$12,255.45	(\$1,606.36)	-13.1%	(\$1,506.36)	(\$51.81)	\$0.00	\$0.00	\$0.00	(\$48.19)
(84)		11,432	\$11,445.04	\$13,182.22	(\$1,737.18)	-13.2%	(\$1,629.04)	(\$56.02)	\$0.00	\$0.00	\$0.00	(\$52.12)
(85)	<b>Average Customer</b>	12,292	<b>\$12,240.46</b>	<b>\$14,108.40</b>	<b>(\$1,867.95)</b>	<b>-13.2%</b>	(\$1,751.68)	(\$60.23)	\$0.00	\$0.00	\$0.00	(\$56.04)
(86)		13,153	\$13,036.03	\$15,034.71	(\$1,998.68)	-13.3%	(\$1,874.29)	(\$64.43)	\$0.00	\$0.00	\$0.00	(\$59.96)
(87)		14,014	\$13,831.91	\$15,961.47	(\$2,129.56)	-13.3%	(\$1,997.01)	(\$68.66)	\$0.00	\$0.00	\$0.00	(\$63.89)
(88)		14,873	\$14,626.79	\$16,886.86	(\$2,260.07)	-13.4%	(\$2,119.38)	(\$72.89)	\$0.00	\$0.00	\$0.00	(\$67.80)
(89)		15,735	\$15,423.51	\$17,814.57	(\$2,391.06)	-13.4%	(\$2,242.22)	(\$77.11)	\$0.00	\$0.00	\$0.00	(\$71.73)
(90)		16,595	\$16,218.57	\$18,740.29	(\$2,521.72)	-13.5%	(\$2,364.77)	(\$81.30)	\$0.00	\$0.00	\$0.00	(\$75.65)

**National Grid - RI Gas  
Gas Cost Recovery (GCR) Filing  
Bill Impact Analysis with Various Levels of Consumption<sup>1</sup>:**

**C & I LLF Large:**

(91)	(92)	Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference	% Chg	Difference due to:					
							GCR	DAC		EE	LIHEAP	GET
								Base DAC	ISR			
(95)		40,395	\$40,281.87	\$45,874.70	(\$5,592.82)	-12.2%	(\$5,756.29)	\$331.25	\$0.00	\$0.00	\$0.00	(\$167.78)
(96)		44,745	\$44,385.51	\$50,580.66	(\$6,195.15)	-12.2%	(\$6,376.18)	\$366.88	\$0.00	\$0.00	\$0.00	(\$185.85)
(97)		49,093	\$48,487.45	\$55,284.58	(\$6,797.13)	-12.3%	(\$6,995.76)	\$402.54	\$0.00	\$0.00	\$0.00	(\$203.91)
(98)		53,444	\$52,592.45	\$59,991.98	(\$7,399.53)	-12.3%	(\$7,615.77)	\$438.23	\$0.00	\$0.00	\$0.00	(\$221.99)
(99)		57,793	\$56,695.26	\$64,696.89	(\$8,001.63)	-12.4%	(\$8,235.48)	\$473.90	\$0.00	\$0.00	\$0.00	(\$240.05)
(100)	<b>Average Customer</b>	62,144	<b>\$60,799.53</b>	<b>\$69,403.55</b>	<b>(\$8,604.02)</b>	<b>-12.4%</b>	(\$8,855.48)	\$509.58	\$0.00	\$0.00	\$0.00	(\$258.12)
(101)		66,494	\$64,903.40	\$74,109.73	(\$9,206.33)	-12.4%	(\$9,475.39)	\$545.25	\$0.00	\$0.00	\$0.00	(\$276.19)
(102)		70,843	\$69,006.16	\$78,814.64	(\$9,808.47)	-12.4%	(\$10,095.12)	\$580.90	\$0.00	\$0.00	\$0.00	(\$294.25)
(103)		75,195	\$73,112.09	\$83,523.10	(\$10,411.01)	-12.5%	(\$10,715.28)	\$616.60	\$0.00	\$0.00	\$0.00	(\$312.33)
(104)		79,545	\$77,215.68	\$88,228.98	(\$11,013.30)	-12.5%	(\$11,335.17)	\$652.27	\$0.00	\$0.00	\$0.00	(\$330.40)
(105)		83,893	\$81,317.66	\$92,932.93	(\$11,615.27)	-12.5%	(\$11,954.73)	\$687.92	\$0.00	\$0.00	\$0.00	(\$348.46)

**C & I HLF Large:**

(106)	(107)	Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference	% Chg	Difference due to:					
							GCR	DAC		EE	LIHEAP	GET
								Base DAC	ISR			
(110)		46,692	\$41,314.38	\$48,245.96	(\$6,931.58)	-14.4%	(\$7,087.82)	\$364.19	\$0.00	\$0.00	\$0.00	(\$207.95)
(111)		51,719	\$45,527.98	\$53,205.85	(\$7,677.88)	-14.4%	(\$7,850.93)	\$403.39	\$0.00	\$0.00	\$0.00	(\$230.34)
(112)		56,746	\$49,742.37	\$58,166.53	(\$8,424.16)	-14.5%	(\$8,614.06)	\$442.62	\$0.00	\$0.00	\$0.00	(\$252.72)
(113)		61,777	\$53,959.81	\$63,130.85	(\$9,171.04)	-14.5%	(\$9,377.75)	\$481.84	\$0.00	\$0.00	\$0.00	(\$275.13)
(114)		66,805	\$58,174.18	\$68,091.61	(\$9,917.43)	-14.6%	(\$10,140.99)	\$521.08	\$0.00	\$0.00	\$0.00	(\$297.52)
(115)	<b>Average Customer</b>	71,832	<b>\$62,388.55</b>	<b>\$73,052.29</b>	<b>(\$10,663.74)</b>	<b>-14.6%</b>	(\$10,904.13)	\$560.30	\$0.00	\$0.00	\$0.00	(\$319.91)
(116)		76,860	\$66,602.98	\$78,013.10	(\$11,410.12)	-14.6%	(\$11,667.34)	\$599.52	\$0.00	\$0.00	\$0.00	(\$342.30)
(117)		81,890	\$70,819.62	\$82,976.48	(\$12,156.87)	-14.7%	(\$12,430.90)	\$638.74	\$0.00	\$0.00	\$0.00	(\$364.71)
(118)		86,916	\$75,032.49	\$87,935.50	(\$12,903.01)	-14.7%	(\$13,193.87)	\$677.95	\$0.00	\$0.00	\$0.00	(\$387.09)
(119)		91,944	\$79,247.63	\$92,897.06	(\$13,649.43)	-14.7%	(\$13,957.10)	\$717.15	\$0.00	\$0.00	\$0.00	(\$409.48)
(120)		96,972	\$83,462.77	\$97,858.63	(\$14,395.86)	-14.7%	(\$14,720.34)	\$756.36	\$0.00	\$0.00	\$0.00	(\$431.88)

**National Grid - RI Gas  
Gas Cost Recovery (GCR) Filing  
Bill Impact Analysis with Various Levels of Consumption<sup>1</sup>:**

**C & I LLF Extra-Large:**

(121)	(122)	Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference	% Chg	Difference due to:												
							GCR	DAC		EE	LIHEAP	GET							
								Base DAC	ISR										
(123)	(124)																		
(125)		244,668	\$192,262.36	\$228,836.48	(\$36,574.11)	-16.0%	(\$34,865.20)	(\$611.69)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	(\$1,097.22)					
(126)		271,017	\$212,400.29	\$252,913.13	(\$40,512.84)	-16.0%	(\$38,619.93)	(\$677.52)	\$0.00	\$0.00	\$0.00	\$0.00	(\$1,215.39)						
(127)		297,366	\$232,538.24	\$276,989.85	(\$44,451.61)	-16.0%	(\$42,374.63)	(\$743.43)	\$0.00	\$0.00	\$0.00	\$0.00	(\$1,333.55)						
(128)		323,713	\$252,674.83	\$301,064.90	(\$48,390.07)	-16.1%	(\$46,129.08)	(\$809.29)	\$0.00	\$0.00	\$0.00	\$0.00	(\$1,451.70)						
(129)		350,065	\$272,815.29	\$325,144.59	(\$52,329.30)	-16.1%	(\$49,884.26)	(\$875.16)	\$0.00	\$0.00	\$0.00	\$0.00	(\$1,569.88)						
(130)	<b>Average Customer</b>	376,412	<b>\$292,951.69</b>	<b>\$349,219.51</b>	<b>(\$56,267.81)</b>	<b>-16.1%</b>	(\$53,638.70)	(\$941.08)	\$0.00	\$0.00	\$0.00	\$0.00	(\$1,688.03)						
(131)		402,760	\$313,089.09	\$373,295.47	(\$60,206.38)	-16.1%	(\$57,393.29)	(\$1,006.90)	\$0.00	\$0.00	\$0.00	\$0.00	(\$1,806.19)						
(132)		429,109	\$333,227.05	\$397,372.21	(\$64,145.16)	-16.1%	(\$61,148.03)	(\$1,072.78)	\$0.00	\$0.00	\$0.00	\$0.00	(\$1,924.35)						
(133)		455,459	\$353,366.08	\$421,450.14	(\$68,084.06)	-16.2%	(\$64,902.90)	(\$1,138.64)	\$0.00	\$0.00	\$0.00	\$0.00	(\$2,042.52)						
(134)		481,805	\$373,502.04	\$445,524.42	(\$72,022.38)	-16.2%	(\$68,657.21)	(\$1,204.50)	\$0.00	\$0.00	\$0.00	\$0.00	(\$2,160.67)						
(135)		508,155	\$393,640.62	\$469,601.94	(\$75,961.32)	-16.2%	(\$72,412.09)	(\$1,270.39)	\$0.00	\$0.00	\$0.00	\$0.00	(\$2,278.84)						

**C & I HLF Extra-Large:**

(136)	(137)	Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference	% Chg	Difference due to:												
							GCR	DAC		EE	LIHEAP	GET							
								Base DAC	ISR										
(138)	(139)																		
(140)		491,249	\$355,145.83	\$433,695.01	(\$78,549.18)	-18.1%	(\$74,571.59)	(\$1,621.11)	\$0.00	\$0.00	\$0.00	\$0.00	(\$2,356.48)						
(141)		544,152	\$392,825.03	\$479,833.26	(\$87,008.23)	-18.1%	(\$82,602.25)	(\$1,795.73)	\$0.00	\$0.00	\$0.00	\$0.00	(\$2,610.25)						
(142)		597,054	\$430,502.88	\$525,969.93	(\$95,467.05)	-18.2%	(\$90,632.76)	(\$1,970.28)	\$0.00	\$0.00	\$0.00	\$0.00	(\$2,864.01)						
(143)		649,958	\$468,182.68	\$572,108.97	(\$103,926.29)	-18.2%	(\$98,663.63)	(\$2,144.87)	\$0.00	\$0.00	\$0.00	\$0.00	(\$3,117.79)						
(144)		702,864	\$505,863.07	\$618,248.84	(\$112,385.76)	-18.2%	(\$106,694.74)	(\$2,319.45)	\$0.00	\$0.00	\$0.00	\$0.00	(\$3,371.57)						
(145)	<b>Average Customer</b>	755,766	<b>\$543,541.76</b>	<b>\$664,386.51</b>	<b>(\$120,844.74)</b>	<b>-18.2%</b>	(\$114,725.37)	(\$2,494.03)	\$0.00	\$0.00	\$0.00	\$0.00	(\$3,625.34)						
(146)		808,671	\$581,221.37	\$710,525.36	(\$129,303.99)	-18.2%	(\$122,756.27)	(\$2,668.60)	\$0.00	\$0.00	\$0.00	\$0.00	(\$3,879.12)						
(147)		861,576	\$618,901.85	\$756,665.17	(\$137,763.32)	-18.2%	(\$130,787.24)	(\$2,843.18)	\$0.00	\$0.00	\$0.00	\$0.00	(\$4,132.90)						
(148)		914,476	\$656,578.39	\$802,800.31	(\$146,221.92)	-18.2%	(\$138,817.48)	(\$3,017.78)	\$0.00	\$0.00	\$0.00	\$0.00	(\$4,386.66)						
(149)		967,382	\$694,259.48	\$848,940.91	(\$154,681.43)	-18.2%	(\$146,848.60)	(\$3,192.39)	\$0.00	\$0.00	\$0.00	\$0.00	(\$4,640.44)						
(150)		1,020,283	\$731,936.70	\$895,076.82	(\$163,140.11)	-18.2%	(\$154,878.96)	(\$3,366.95)	\$0.00	\$0.00	\$0.00	\$0.00	(\$4,894.20)						

<sup>1</sup> Includes all Firm, Transportation and sales Customers



**Use (therm) per customer by rate class**

Line

No.	Low Level (75%)	Nov'12 - Oct'13	Nov'13 - Oct'14	Nov'14 - Oct'15 <sup>1</sup>
1	Residential Heating	635	711	742
2	Residential Heating Low Income	620	671	644
3	Residential Non-Heating	211	266	250
4	Residential Non-Heating Low Income	482	555	449
5	Small C&I	921	1,075	1,130
6	Medium C&I	8,292	9,236	9,597
7	Large LLF	44,246	49,986	51,731
8	Large HLF	45,887	50,979	52,412
9	Extra Large LLF	246,568	270,566	282,217
10	Extra Large HLF	540,867	572,398	561,218

No.	Medium Level (100%)	Nov'12 - Oct'13	Nov'13 - Oct'14	Nov'14 - Oct'15 <sup>1</sup>
11	Residential Heating	847	948	989
12	Residential Heating Low Income	826	895	858
13	Residential Non-Heating	282	355	334
14	Residential Non-Heating Low Income	642	740	598
15	Small C&I	1,228	1,434	1,506
16	Medium C&I	11,056	12,314	12,795
17	Large LLF	58,995	66,648	68,975
18	Large HLF	61,182	67,972	69,883
19	Extra Large LLF	328,758	360,755	376,290
20	Extra Large HLF	721,156	763,197	748,290

No.	High Level (125%)	Nov'12 - Oct'13	Nov'13 - Oct'14	Nov'14 - Oct'15 <sup>1</sup>
21	Residential Heating	1,058	1,185	1,236
22	Residential Heating Low Income	1,033	1,118	1,073
23	Residential Non-Heating	352	444	417
24	Residential Non-Heating Low Income	803	926	748
25	Small C&I	1,535	1,792	1,883
26	Medium C&I	13,820	15,393	15,994
27	Large LLF	73,743	83,310	86,219
28	Large HLF	76,478	84,966	87,354
29	Extra Large LLF	410,947	450,944	470,362
30	Extra Large HLF	901,445	953,996	935,363

<sup>1</sup> September and October 2015 are based on the projected use as approved in Gas Cost Recovery Filing Docket No. 4576 and the actual number of customers in August 2015.

Division 2-12

Request:

Re: Attachment AEL-5, page 2 of 3, please provide:

- a. The referenced "Mkter MDQ Forecast,"
- b. The workpapers, data, analyses, studies and other documents upon which the Company relies to derive the referenced "Mkter MDQ Forecast"
- c. Forecasted Marketer MDQ billing units by month for the 2015-16 GCR year.

Response:

- a. The referenced "Mkter MDQ Forecast" represents the projected monthly Marketers' MDQ-U and MDQ-P for the period from November 2015 through October 2016. The projected MDQ-U and MDQ-P are calculated by applying the proposed Storage and Peaking Capacity Allocators for High Load and Low Load customer groupings shown in Attachment AEL-6 by the historical Peak day usage of FT-2 customers as of August 2015. The Company is providing the Excel version of Attachment DIV 2-12 only because the hard copy of Attachment AEL-5 was provided in the Company's initial filing.
- b. See Attachment DIV 2-12 for the workpapers used to derive the "Mkter MDQ Forecast."
- c. The forecasted Marketer MDQ billing units remain constant at 16,809 dekatherms for each month during the 2015-16 GCR year.

Division 2-13

Request:

Re: Attachment AEL-6, page 1 of 1, please provide the workpapers, data, analyses, studies and other documents relied upon to develop:

- a. The percentages shown by rate class for “% of Peak Day Requirement” for Pipeline, Storage, and Peaking;
- b. The percentages shown by rate class for “% of Total Capacity for Pipeline, Storage, and Peaking;”
- c. The percentages shown for “% of Peak Day Requirement” for Pipeline, Storage, and Peaking for the HLF and LLF classifications;
- d. The percentages shown by rate class for “% of Total Capacity for Pipeline, Storage, and Peaking” for the HLF and LLF classifications.

Response:

The electronic spreadsheets used to generate Attachment AEL-6, page 1 of 1 are included herein as Attachment DIV-2-13. The Company will provide the excel spreadsheets of Attachment DIV-2-13 to the Commission on CD-ROM. A copy of the CD-ROM will also be provided to the Division and its consultant.

Division 2-14

Request:

Re: Attachment AEL-7, pages 1 and 2, please provide the workpapers, data, analyses, studies and other documents relied upon to compute:

- a. The "Revised System Average" cost for 2013/2014;
- b. The "Revised System Average" cost for 2014/2015;
- c. The Revised cost for each path for 2013/2014;
- d. The Revised cost for each path for 2014/2015;
- e. The "Annual MDCQ" for 2013/2015;
- f. The "Annual MDCQ" for 2014/2015.

Response:

The electronic spreadsheets used to generate Attachment AEL-7, pages 1 and 2 are included herein as Attachment DIV-2-14. The Company will provide the excel spreadsheets of Attachment DIV-2-14 to the Commission on CD-ROM. A copy of the CD-ROM will also be provided to the Division and its consultant.