

February 2, 2012

VIA HAND DELIVERY & ELECTRONIC MAIL

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

**RE: Docket 4306 - Gas Infrastructure, Safety, and Reliability Plan FY 2013
Responses to Division Data Requests**

Dear Ms. Massaro:

On behalf of both National Grid¹ and the Division, I have enclosed ten (10) copies of responses that the Company made to two (2) sets of data requests from the Division of Public Utilities and Carriers (“Division”) during the period that the Division reviewed and reached an agreement on the Company’s proposed plan. It is the intent that this material can provide additional background and explanation relative to the plan that has been submitted to the Commission.

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

Very truly yours,



Thomas R. Teehan

Enclosure

cc: Docket 4306 Service List
Steve Scialabba
Leo Wold, Esq.

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

National Grid

The Narragansett Electric Company

Gas Infrastructure,
Safety, and Reliability Plan
FY 2013 Proposal

**Copy of Responses to
Division Data Requests**

January 26, 2012

Docket No. 4306

Submitted to:
Rhode Island Public Utilities Commission

Submitted by:

nationalgrid

Division 1-1 (Gas)

Request:

Please provide Section 3, Attachment 1 in electronic spreadsheet format with all formulas intact.

Response:

Please see Attachment DIV 1-1.

Prepared by or under the supervision of: William R. Richer

National Grid - RI Gas
d/b/a National Grid
Gas Infrastructure, Safety and Reliability (ISR) Plan
Computation of Annual Revenue Requirement

Line No.		Fiscal Year <u>2012</u> (a)	Fiscal Year <u>2013</u> (b)	Fiscal Year <u>2014</u> (c)
	Capital Investment:			
	Forecasted Revenue Requirement:			
1	FY 2012	\$1,817,890	\$5,089,972	\$4,908,299
2	FY 2013		\$2,489,478	\$6,593,482
3	Total	\$1,817,890	\$7,579,450	\$11,501,781
4	Total Incremental Fiscal Year Rate Adjustment	\$1,817,890	\$5,761,560	

Line Notes

- 1 Column (a) - From Page 3 Line 26 (Col a)
- 1 Column (b) - From Page 3 Line 26 (Col b)
- 1 Column (c) - From Page 3 Line 26 (Col c)
- 2 Column (b) - From Page 2 Line 26 (Col a)
- 2 Column (b) - From Page 2 Line 26 (Col b)

The Narragansett Electric Company
d/b/a National Grid
Illustrative Computation of Gas FY 2013 Capital Investment Revenue Requirement

Line No.			Fiscal Year	Fiscal Year
			2013	2014
			(a)	(b)
<u>Depreciable Net Capital Included in Rate Base</u>				
1	Total Allowed Capital Included in Rate Base in Current Year		\$56,889,391	\$0
2	Retirements	Line 1 * Retirements Rate	\$2,486,066	\$0
3	Net Depreciable Capital Included in Rate Base	Prior Year Line 3 + Current Year Line 1 - Line 2	\$54,403,325	\$54,403,325
<u>Change in Net Capital Included in Rate Base</u>				
4	Capital Included in Rate Base	Line 1	\$56,889,391	\$0
5	Depreciation Expense	As approved per Docket No. 3943, excluding general plant and 2009 CXT	\$18,443,542	\$0
6	Incremental Depreciable Amount	Prior Year Line 6 + Current Line 4 - Line 5	\$38,445,849	\$38,445,849
7	Cost of Removal		\$4,701,396	\$4,701,396
8	Net Plant Amount	Line 6 + Line 7	\$43,147,246	\$43,147,246
<u>Deferred Tax Calculation:</u>				
9	Composite Book Depreciation Rate	As Approved in R.I.P.U.C. Docket No. 3943	3.38%	3.38%
10	Tax Depreciation	Page 4, Line 20	\$42,939,512	\$1,398,894
11	Cumulative Tax Depreciation	Prior Year Line 11 + Current Year Line 10	\$42,939,512	\$44,338,406
12	Book Depreciation	In Year 1 (Prior Year Line 3 * Line 12 * 50%) then Prior Year Line 3 * Line 12	\$919,416	\$1,838,832
13	Cumulative Book Depreciation	Prior Year Line 13 + Current Year Line 12	\$919,416	\$2,758,249
14	Cumulative Book / Tax Timer	Line 11 - Line 13	\$42,020,096	\$41,580,158
15	Effective Tax Rate		35.00%	35.00%
16	Deferred Tax Reserve	Line 14 * Line 15	\$14,707,034	\$14,553,055
<u>Rate Base Calculation:</u>				
17	Cumulative Incremental Capital Included in Rate Base	Line 8	\$43,147,246	\$43,147,246
18	Accumulated Depreciation	- Line 13	(\$919,416)	(\$2,758,249)
19	Deferred Tax Reserve	- Line 13	(\$14,707,034)	(\$14,553,055)
20	Year End Rate Base	Sum of Lines 17 through 19	\$27,520,796	\$25,835,942
<u>Revenue Requirement Calculation:</u>				
21	Average Rate Base	Line 20 ÷ 2 for 2013 then, (Prior Year Line 20 + Current Year Line 20) ÷ 2	\$13,760,398	\$26,678,369
22	Pre-Tax ROR		11.41%	11.41%
23	Return and Taxes	Line 24 * Line 25	\$1,570,061	\$3,044,002
24	Book Depreciation	Line 15	\$919,416	\$1,838,832
25	Property Taxes	\$0 in Year 1, then Prior Year (Line 3 + Line 7 - Line 13) * Property Tax Rate	\$0	\$1,710,648
26	Annual Revenue Requirement	Sum of Lines 23 through 25	\$2,489,478	\$6,593,482

1/ Assumes 4.37% based on 2010 retirements as a percent of capital spend; to be replaced with actual retirements

2/ Weighted Average Cost of Capital as approved in R.I.P.U.C. Docket No. 3943

	Ratio	Rate	Rate	Taxes	Return
Long Term Debt	40.63%	7.99%	3.25%		3.25%
Short Term Debt	11.66%	3.91%	0.46%		0.46%
Common Equity	47.71%	10.50%	5.01%	2.70%	7.71%
	100.00%		8.71%	2.70%	11.41%

3/ Property Tax Rate Calculation based on 2010 actual net plant in service and property tax expense applicable to distribution

Plant in Service	\$613,322,109	
Completed Construction Not Classified	\$41,756,384	
Total Plant in Service	\$655,078,494	
Less: Intangible Plant	\$28,697,923	
Distribution-Plant in Service	\$626,380,570	\$626,380,570
Accumulated Depreciation	\$309,170,951	
Accumulated Depreciation -Intangible Plant	(\$18,669,589)	
Accumulated Depreciation Distribution-Plant in Service		\$290,501,363
Distribution-Related Net Plant in Service	\$335,879,208	\$335,879,208
Distribution-Related Rate Year Property Tax Expense		\$9,878,147
Distribution-Related Property Tax Rate		2.94%

The Narragansett Electric Company
d/b/a National Grid
Illustrative Computation of Gas FY 2012 Capital Investment Revenue Requirement

Line No.			Fiscal Year	Fiscal Year	Fiscal Year
			2012 (a)	2013 (b)	2014 (c)
<u>Depreciable Net Capital Included in Rate Base</u>					
1	Total Allowed Capital Included in Rate Base in Current Year		\$47,660,716	\$0	\$0
2	Retirements	Line 1 * Retirements Rate	\$3,074,116	\$0	\$0
3	Net Depreciable Capital Included in Rate Base	Prior Year Line 3 + Current Year Line 1 - Line 2	\$44,586,600	\$44,586,600	\$44,586,600
<u>Change in Net Capital Included in Rate Base</u>					
4	Capital Included in Rate Base	Line 1	\$47,660,716	\$0	\$0
5	Depreciation Expense	As approved per Docket No. 3943, excluding general plant and 2009 CXT	\$18,443,542	\$0	\$0
6	Incremental Depreciable Amount	Prior Year Line 6 + Current Line 4 - Line 5	\$29,217,174	\$29,217,174	\$29,217,174
7	Cost of Removal		\$5,755,088	\$5,755,088	\$5,755,088
8	Net Plant Amount	Line 6 + Line 7	\$34,972,262	\$34,972,262	\$34,972,262
<u>Deferred Tax Calculation:</u>					
9	Composite Book Depreciation Rate	As Approved in R.I.P.U.C. Docket No. 3943	3.38%	3.38%	3.38%
10	Tax Depreciation	Page 5, Line 20	\$45,215,927	\$615,012	\$568,837
11	Cumulative Tax Depreciation	Prior Year Line 11 + Current Year Line 10	\$45,215,927	\$45,830,939	\$46,399,776
12	Book Depreciation	In Year 1 (Prior Year Line 3 * Line 12 *50%) then Prior Year Line 3 * Line12	\$753,514	\$1,507,027	\$1,507,027
13	Cumulative Book Depreciation	Prior Year Line 13 + Current Year Line 12	\$753,514	\$2,260,541	\$3,767,568
14	Cumulative Book / Tax Timer	Line 11 - Line 13	\$44,462,413	\$43,570,398	\$42,632,209
15	Effective Tax Rate		35.00%	35.00%	35.00%
16	Deferred Tax Reserve	Line 14 * Line 15	\$15,561,845	\$15,249,639	\$14,921,273
<u>Rate Base Calculation:</u>					
17	Cumulative Incremental Capital Included in Rate Base	Line 8	\$34,972,262	\$34,972,262	\$34,972,262
18	Accumulated Depreciation	- Line 13	(\$753,514)	(\$2,260,541)	(\$3,767,568)
19	Deferred Tax Reserve	- Line 13	(\$15,561,845)	(\$15,249,639)	(\$14,921,273)
20	Year End Rate Base	Sum of Lines 17 through 19	\$18,656,904	\$17,462,082	\$16,283,421
<u>Revenue Requirement Calculation:</u>					
21	Average Rate Base	Line 20÷2 for 2013 then, (Prior Year Line 20 + Current Year Line 20)÷2	\$9,328,452	\$18,059,493	\$16,872,752
22	Pre-Tax ROR		11.41%	11.41%	11.41%
23	Return and Taxes	Line 24 * Line 25	\$1,064,376	\$2,060,588	\$1,925,181
24	Book Depreciation	Line 15	\$753,514	\$1,507,027	\$1,507,027
25	Property Taxes	\$0 in Year 1, then Prior Year (Line 3 + Line 7 - Line 13) * Property Tax Rate	\$0	\$1,522,357	\$1,476,091
26	Annual Revenue Requirement	Sum of Lines 23 through 25	\$1,817,890	\$5,089,972	\$4,908,299

1/ Assumes 6.45% based on 2009 retirements as a percent of capital spend; to be replaced with actual retirements

2/ Weighted Average Cost of Capital as approved in R.I.P.U.C. Docket No. 3943

	Ratio	Rate	Rate	Taxes	Return
Long Term Debt	40.63%	7.99%	3.25%		3.25%
Short Term Debt	11.66%	3.91%	0.46%		0.46%
Common Equity	47.71%	10.50%	5.01%	2.70%	7.71%
	<u>100.00%</u>		<u>8.71%</u>	<u>2.70%</u>	<u>11.41%</u>

3/ Property Tax Rate Calculation based on 2009 actual net plant in service and property tax expense applicable to distribution

Plant in Service	\$571,320,698	
Completed Construction Not Classified	\$41,766,356	
Total Plant in Service	\$613,087,054	
Less: Intangible Plant	\$28,679,000	
Distribution-Plant in Service	\$584,408,054	\$584,408,054
Accumulated Depreciation	\$295,189,100	
Accumulated Depreciation -Intangible Plant	(\$17,323,010)	
Accumulated Depreciation Distribution-Plant in Service		\$277,866,090
Distribution-Related Net Plant in Service	\$306,541,964	\$306,541,964
Distribution-Related Rate Year Property Tax Expense		\$9,413,974
Distribution-Related Property Tax Rate		3.07%

The Narragansett Electric Company
d/b/a National Grid
Illustrative Calculation of Tax Depreciation and Repairs Deduction
On FY 2013 Capital Investment

Line No.			Fiscal Year <u>2013</u> (a)	Fiscal Year <u>2014</u> (b)
	<u>Capital Repairs Deduction</u>			
1	Plant Additions	Page 1, Line 1	\$56,889,391	
2	Capital Repairs Deduction Rate		50.00%	
3	Capital Repairs Deduction	Line 2 x Line 3	<u>\$28,444,696</u>	
	<u>Bonus Depreciation</u>			
4	Plant Additions	Line 1	\$56,889,391	
5	Less Capital Repairs Deduction	Line 3	<u>\$28,444,696</u>	
6	Plant Additions Net of Capital Repairs Deduction	Line 4 - Line 5	\$28,444,695	
7	Percent of Plant Eligible for Bonus Depreciation		<u>85.00%</u>	
8	Plant Eligible for Bonus Depreciation	Line 6 x Line 7	\$24,177,991	
9	Bonus Depreciation Rate (April 2012 - December 2012)	Line 1*75%*50%	37.50%	
10	Bonus Depreciation Rate (January 2013 - March 2013)		<u>0.00%</u>	
11	Total Bonus Depreciation Rate	Line 9 + Line 10	37.50%	
12	Bonus Depreciation	Line 8 x Line 11	\$9,066,747	
	<u>Remaining Tax Depreciation</u>			
13	Plant Additions	Line 1	\$56,889,391	
14	Less Capital Repairs Deduction	Line 3	\$28,444,696	
15	Less Bonus Depreciation	Line 12	<u>\$9,066,747</u>	
16	Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation	Line 1 - 14 - 15	\$19,377,948	\$19,377,948
17	20 YR MACRS Tax Depreciation Rates		<u>3.750%</u>	7.219%
18	Remaining Tax Depreciation	Line 16 x Line 17	\$726,673	\$1,398,894
19	Cost of Removal		\$4,701,396	
20	Total Tax Depreciation and Repairs Deduction	Sum of Lines 3, 12, 18, 19	<u>\$42,939,512</u>	<u>\$1,398,894</u>

**The Narragansett Electric Company
d/b/a National Grid
Illustrative Calculation of Tax Depreciation and Repairs Deduction
On FY 2012 Capital Investment**

Line No.			Fiscal Year <u>2012</u> (a)	Fiscal Year <u>2013</u> (b)	Fiscal Year <u>2014</u> (c)
	<u>Capital Repairs Deduction</u>				
1	Plant Additions	Page 1, Line 1	\$47,660,716		
2	Capital Repairs Deduction Rate		<u>48.00%</u>		
3	Capital Repairs Deduction	Line 2 x Line 3	\$22,877,144		
	<u>Bonus Depreciation</u>				
4	Plant Additions	Line 1	\$47,660,716		
5	Less Capital Repairs Deduction	Line 3	<u>\$22,877,144</u>		
6	Plant Additions Net of Capital Repairs Deduction	Line 4 - Line 5	\$24,783,572		
7	Percent of Plant Eligible for Bonus Depreciation		<u>75.00%</u>		
8	Plant Eligible for Bonus Depreciation	Line 6 x Line 7	\$18,587,679		
9	Bonus Depreciation Rate (April 2011 - December 2011)	1 * 75%	75.00%		
10	Bonus Depreciation Rate (January 2012 - March 2012)	1*25% *50%	<u>12.50%</u>		
11	Total Bonus Depreciation Rate	Line 9 + Line 10	87.50%		
12	Bonus Depreciation	Line 8 x Line 11	\$16,264,219		
	<u>Remaining Tax Depreciation</u>				
13	Plant Additions	Line 1	\$47,660,716		
14	Less Capital Repairs Deduction	Line 3	\$22,877,144		
15	Less Bonus Depreciation	Line 12	<u>\$16,264,219</u>		
16	Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation	Line 1 - 14 - 15	\$8,519,353	\$8,519,353	\$8,519,353
17	20 YR MACRS Tax Depreciation Rates		<u>3.750%</u>	<u>7.219%</u>	<u>6.677%</u>
18	Remaining Tax Depreciation	Line 16 x Line 17	\$319,476	\$615,012	\$568,837
19	Cost of Removal		\$5,755,088		
20	Total Tax Depreciation and Repairs Deduction	Sum of Lines 3, 12, 18, 19	<u>\$45,215,927</u>	<u>\$615,012</u>	<u>\$568,837</u>

Division 1-2 (Gas)

Request:

Referring to Section 3, Attachment 1, page 3, please explain why the depreciation expense on Line 5 is not offset against the plant additions in the calculation of the property tax expense for Fiscal Year 2013 on Line 25.

Response:

The Gas Infrastructure, Safety, and Reliability Plan reflects capital investment and other spending relating to maintaining the safety and reliability of the gas distribution system on a prospective basis beginning April 1, 2011. The capital tracker portion of the plan is intended to be incremental in nature, isolated just to the impact of capital investments beginning with the twelve months ended April 1, 2012. As such, it is not intended to adjust rate base and associated rate base-related costs currently embedded within the Company's base distribution rates as set in the Company's last rate case in Docket No. 3943.

The base rate allowance for property taxes on embedded plant in service as approved in Docket No. 3943 are subjected to normal ebb and flow, as are all other base rate cost components. Property taxes are affected by changes in both assessed property values and property tax rates. As such, it would be inappropriate to adjust base rate property tax allowances for embedded plant in service for only changes in assessed property value while ignoring inevitable changes in individual municipal property tax rates.

Division 1-3 (Gas)

Request:

Referring to Section 3, Attachment 1, page 2, please explain reasons for the increase in the property tax rate from the property tax rate based on the 2009 actual plant in service.

Response:

This request asks for an explanation of the increase in the property tax rate; however, the property tax rate based on calendar year 2010 plant in service actually decreased from the property tax rate based on 2009 plant in service. The 2010 property tax rate decreased to 2.94% from the 2009 property tax rate of 3.07%. The property tax rate used in the computation of the FY 2013 and FY 2012 Revenue Requirement is based on calendar year 2010 and 2009, actual net plant in service and property tax expense, respectively. Actual distribution property tax expense increased approximately 4.94% from 2009 to 2010; however, distribution plant in service increased by approximately 9.6% over the same period therefore generating a lower ratio of property tax expense to plant in service.

Prepared by or under the supervision of: William R. Richer

Division 1-4 (Gas)

Request:

Please provide any analysis prepared by or for the Company that addresses the effect of Revenue Procedure 2011-43 on the Capital Repairs Deduction Rate applicable to gas plant additions.

Response:

Revenue Procedure 2011-43 provides a safe harbor repair deduction for electric distribution and electric transmission plant. The IRS has yet to provide repair safe harbor guidance for gas distribution and gas transmission property. The Company will prepare an analysis of the capital repairs deduction rate for gas plant additions after the IRS issues such guidance.

Prepared by or under the supervision of: William R. Richer

Division 1-5 (Gas)

Request:

Referring to Section 3, Attachment 1, page 4, please explain why the Capital Repairs Deduction Rate increases from 48% in FY 2012 to 50% in FY 2013.

Response:

For the FY 2012 filing, the 48% Capital Repairs Deduction Rate was based on the percentage of repairs to total gas plant additions in the fiscal 2010 tax return. For the FY 2013 filing, the Company used a further refinement of the calculation. Since the Gas Infrastructure, Safety, and Reliability Plan filing does not include new growth capital additions, the repairs percentage was based on the percentage of qualifying property as a percentage of potentially qualifying (without growth) property.

Prepared by or under the supervision of: William R. Richer

Division 1-6 (Gas)

Request:

What were the actual Capital Repairs Deduction Rates applicable to gas plant in FY 2010 and FY 2011?

Response:

The capital repairs deductions, as a percentage of total plant additions, for the tax returns questioned are as follows:

Fiscal 2010	47.69%
Fiscal 2011	40.28%

The 40.28% for FY 2011 differs from the 50% used as an estimate of the FY 2013 capital repairs deduction for the Gas ISR, because growth capital additions were excluded in the determination of the Gas ISR percentage as described in the Company's response to Division 1-5 (Gas).

Prepared by or under the supervision of: William R. Richer

Division 1-7 (Gas)

Request:

Please provide any analysis prepared by or for the Company that addresses the gas Plant Eligible for Bonus Depreciation in calendar year 2010 and calendar year 2011 to date.

Response:

The Company does not prepare any analysis for bonus eligible property on a calendar year basis. The exercise is prepared on an April 1- March 31 fiscal year basis as part of the tax return workpapers. Attachment DIV 1-7 shows the fiscal year 2010 and fiscal year 2011 summaries of the results of eligibility tests performed on work orders put into service in those years. These includes tests regarding the work order start dates as described in response to Division 1-6 (Electric) and the 90% rule.

Prepared by or under the supervision of: William R. Richer

1 The Narragansett Electric Company
d/b/a National Grid
FY 2013 Gas Infrastructure, Safety, and Reliability Plan
Responses to Division's Data Request - Set 1
Attachment DIV 1 -7
Page 1 of 2

National Grid - RI Gas
d/b/a National Grid
Gas Infrastructure, Safety and Reliability (ISR) Plan
FY 2011 Plant Additions Eligible for Bonus Depreciation

Line No.	Tax Class	Test for 50% Bonus Eligible	Test for 100% Bonus Eligible
1	NGCO 101/106 40700	1,312.82	-
2	Passes First Charge Test	1,312.82	-
3	NGCO 101/106 42000	208,367.22	(585.62)
4	Passes First Charge Test	208,367.22	(585.62)
5	NGCO 101/106 46200	825,380.80	82,213.81
6	Passes First Charge Test	825,380.80	82,213.81
7	NGCO 101/106 46300	2,150,493.95	(21,737.56)
8	Passes First Charge Test	2,150,493.95	(21,737.56)
9	NGCO 101/106 47600	6,038.35	-
10	Passes First Charge Test	4,030.15	-
11	Passes First Charge Test (90% Rule)	2,008.20	-
12	NGCO 101/106 47606	898,592.00	682,903.91
13	Passes First Charge Test	846,343.74	682,903.91
14	Passes First Charge Test (90% Rule)	52,248.26	-
15	NGCO 101/106 47611	1,808,958.29	208,253.38
16	Does Not Pass First Charge Test	20,706.58	9.25
17	Passes First Charge Test	1,668,030.36	207,544.76
18	Passes First Charge Test (90% Rule)	120,221.35	699.37
19	NGCO 101/106 47612	17,366,363.71	7,654,320.34
20	Does Not Pass First Charge Test	1,000,701.50	5,691.11
21	Does Not Pass First Charge Test (Total Charges Zero)	-	-
22	Passes First Charge Test	13,920,160.14	7,240,850.78
23	Passes First Charge Test (90% Rule)	2,309,077.35	407,778.45
24	Passes First Charge Test (Blanket)	136,424.72	-
25	NGCO 101/106 47613	586.58	-
26	Passes First Charge Test	586.58	-
27	NGCO 101/106 47617	454,278.24	233,136.64
28	Does Not Pass First Charge Test	72,039.55	15,221.49
29	Passes First Charge Test	382,220.47	217,915.15
30	Passes First Charge Test (90% Rule)	18.22	-
31	NGCO 101/106 47810	48,093.00	(3,901.02)
32	Passes First Charge Test	48,093.00	(3,901.02)
33	NGCO 101/106 48000	6,549,582.53	1,833,036.92
34	Does Not Pass First Charge Test	267,354.56	1,618.77
35	Does Not Pass First Charge Test (Total Charges Zero)	-	-
36	Passes First Charge Test	5,185,932.39	1,616,392.68
37	Passes First Charge Test (90% Rule)	975,472.88	215,025.47
38	Passes First Charge Test (Blanket)	120,822.70	-
39	NGCO 101/106 48110	1,554,053.48	935,464.80
40	Passes First Charge Test (Blanket)	1,554,053.48	935,464.80
41	NGCO 101/106 48130	721,934.03	434,569.26
42	Passes First Charge Test (Blanket)	721,934.03	434,569.26
43	NGCO 101/106 48140	(384,937.27)	-
44	Passes First Charge Test (Blanket)	(384,937.27)	-
45	NGCO 101/106 48220	2,946,289.36	89,751.45
46	Passes First Charge Test (Blanket)	2,946,289.36	89,751.45
47	NGCO 101/106 48400	129.47	(141.32)
48	Passes First Charge Test	129.47	(141.32)
49	NGCO 101/106 48700	42,115.60	(1,270.88)
50	Passes First Charge Test	42,115.60	(1,270.88)
51	NGCO 101/106 49101	25,835.37	-
52	Passes First Charge Test	25,835.37	-
53	NGCO 101/106 49400	582,110.94	(7,373.85)
54	Does Not Pass First Charge Test (Found No Charges)	-	-
55	Passes First Charge Test	582,110.94	(7,373.85)
56	NGCO 101/106 49500	43,809.37	-
57	Passes First Charge Test	43,809.37	-
58	NGCO 101/106 49810	15,794.69	-
59	Passes First Charge Test	15,794.69	-
60			
61	Total Bonus Eligible Plant	34,504,380.34	12,096,099.64

Line Notes

Line2+Line4+Line
6+Line8+Line10+Line11+Line13+Line14+Line17+Line18+Line
e22+Line 23+Line24+Line26+Line 29+Line 30+Line
32+Line36+Line37+Line40+Line42+Line44+Line
61 46+Line48+Line50+Line52+Line55+Line57+Line59

National Grid - RI Gas
d/b/a National Grid
Gas Infrastructure, Safety and Reliability (ISR) Plan
FY 2010 Plant Additions Eligible for Bonus Depreciation

Line No.	Tax Class	Status	Total	Bonus	Adjustments	50% Bonus Eligible
1	NGCO 101/106 40300	Does Not Pass First Charge Test	24,083.80			-
2	NGCO 101/106 40300 Total		24,083.80			
3	NGCO 101/106 40500	Passes First Charge Test	7,459.07	7,459.07		7,459.07
4	NGCO 101/106 40500 Total		7,459.07			
5	NGCO 101/106 42000	Passes First Charge Test	49,963.43	49,963.43		49,963.43
6	NGCO 101/106 42000 Total		49,963.43			
7	NGCO 101/106 46100	Passes First Charge Test	26,037.70	26,037.70		26,037.70
8	NGCO 101/106 46100 Total		26,037.70			
9	NGCO 101/106 46200	Passes First Charge Test	14,996.52	14,996.52		14,996.52
10	NGCO 101/106 46200 Total		14,996.52			
11	NGCO 101/106 46300	Passes First Charge Test	214,043.62	214,043.62		214,043.62
12	NGCO 101/106 46300 Total		214,043.62			
13	NGCO 101/106 47500	Passes First Charge Test	(312,451.55)	(312,451.55)	322,575.05	10,123.50
14	NGCO 101/106 47500 Total		(312,451.55)			
15	NGCO 101/106 47600	Passes First Charge Test	636,353.25	636,353.25		636,353.25
16		Passes First Charge Test (90% Rule)	565,267.93	565,267.93		565,267.93
17	NGCO 101/106 47600 Total		1,201,621.18	1,201,621.18		
18	NGCO 101/106 47606	Does Not Pass First Charge Test	386,411.13			-
19		Passes First Charge Test	924,630.03	924,630.03		924,630.03
20		Passes First Charge Test (90% Rule)	429,279.53	429,279.53		429,279.53
21	NGCO 101/106 47606 Total		1,740,320.69	1,353,909.56		
22	NGCO 101/106 47611	Does Not Pass First Charge Test	121,375.72			-
23		Passes First Charge Test	478,694.03	478,694.03		478,694.03
24		Passes First Charge Test (90% Rule)	68,996.91	68,996.91		68,996.91
25	NGCO 101/106 47611 Total		669,066.66	547,690.94		
26	NGCO 101/106 47612	Does Not Pass First Charge Test	409,161.60			-
27		Does Not Pass First Charge Test (Total Charges Zero)	(24,593.53)			-
28		Passes First Charge Test	13,505,613.04	13,505,613.04		13,505,613.04
29		Passes First Charge Test (90% Rule)	1,845,632.66	1,845,632.66		1,845,632.66
30		Passes First Charge Test (Blanket)	82,572.83	82,572.83		82,572.83
31	NGCO 101/106 47612 Total		15,818,386.60	15,433,818.53		
32	NGCO 101/106 47613	Does Not Pass First Charge Test	11,308.25			-
33		Passes First Charge Test	1,594.19	1,594.19		1,594.19
34	NGCO 101/106 47613 Total		12,902.44			
35	NGCO 101/106 47617	Does Not Pass First Charge Test	44,280.65			-
36		Passes First Charge Test	4,255,063.80	4,255,063.80		4,255,063.80
37		Passes First Charge Test (90% Rule)	2,127.50	2,127.50		2,127.50
38		Passes First Charge Test (Blanket)	92,718.96	92,718.96		92,718.96
39	NGCO 101/106 47617 Total		4,394,190.91	4,349,910.26		
40	NGCO 101/106 47810	Does Not Pass First Charge Test	26,424.52			-
41		Passes First Charge Test	36,805.98	36,805.98		36,805.98
42	NGCO 101/106 47810 Total		63,230.50			
43	NGCO 101/106 47900	Passes First Charge Test	146,283.84	146,283.84		146,283.84
44	NGCO 101/106 47900 Total		146,283.84			
45	NGCO 101/106 48000	Does Not Pass First Charge Test	158,945.52			-
46		Does Not Pass First Charge Test (Total Charges Zero)	(1,020.47)			-
47		Passes First Charge Test	16,465,649.83	16,465,649.83		16,465,649.83
48		Passes First Charge Test (90% Rule)	588,982.29	588,982.29		588,982.29
49		Passes First Charge Test (Blanket)	19,097.99	19,097.99		19,097.99
50	NGCO 101/106 48000 Total		17,231,655.16	17,073,730.11		
51	NGCO 101/106 48110	Passes First Charge Test (Blanket)	1,447,457.89	1,447,457.89		1,447,457.89
52	NGCO 101/106 48110 Total		1,447,457.89			
53	NGCO 101/106 48130	Passes First Charge Test (Blanket)	524,800.29	524,800.29		524,800.29
54	NGCO 101/106 48130 Total		524,800.29			
55	NGCO 101/106 48140	Passes First Charge Test (Blanket)	3,664,878.21	3,664,878.21		3,664,878.21
56	NGCO 101/106 48140 Total		3,664,878.21			
57	NGCO 101/106 48220	Passes First Charge Test (Blanket)	4,847,857.03	4,847,857.03		4,847,857.03
58	NGCO 101/106 48220 Total		4,847,857.03			
59	NGCO 101/106 49000	Passes First Charge Test	21,970.48			
60	NGCO 101/106 49000 Total		21,970.48			
61	NGCO 101/106 49100	Passes First Charge Test	309,199.78	309,199.78		309,199.78
62	NGCO 101/106 49100 Total		309,199.78			
63	NGCO 101/106 49101	Passes First Charge Test	56,519.54	56,519.54		56,519.54
64	NGCO 101/106 49101 Total		56,519.54			
65	NGCO 101/106 49730	Does Not Pass First Charge Test	(2,695.00)			-
66	NGCO 101/106 49730 Total		(2,695.00)			
67	NGCO 101/106 49810	Does Not Pass First Charge Test	16,253.42			-
68		Passes First Charge Test	132,396.21	132,396.21		132,396.21
69	NGCO 101/106 49810 Total		148,649.63			
70						
71						
72	Total Bonus Eligible Plant		52,320,428.42	51,128,522.33	322,575.05	51,451,097.38

Line Notes

72 Sum of Line 1 through Line 69

Division 1-8 (Gas)

Request:

Please explain how the incremental ISR revenue requirement will be synchronized with the incremental ARP revenue requirement in the DAC with regard to plant additions in FY 2012 and subsequent years.

Response:

The incremental ISR revenue requirement and the incremental ARP revenue requirement in the Distribution Adjustment Charge (DAC) relate to investment from different periods of time. As noted in the testimony of Mr. Nestor in this year's DAC filing in Docket No. 4269 at page 16, the ISR tracker relates to future non-growth capital investment by the Company on a *prospective* basis and its cumulative revenue requirement is reconciled in the DAC. For example, the revenue requirement for the FY 2012 ISR covered the period April 1, 2011 through March 31, 2012 and will be reconciled in the 2012 DAC. The incremental ISR revenue requirement for the FY 2013 ISR covers the incremental revenue requirement for the period April 1, 2012 to March 31, 2013.

By contrast, the ARP tracker relates to *previous* capital investment and its associated incremental revenue requirements. Specifically, in Docket No. 4219, the Commission approved a tariff modification that stated that for the 2011 DAC, the ARP covered the period April 1, 2010 to March 31, 2011, after which the ARP sunset and was terminated, with any previous cumulative ARP investment recovery continuing in the DAC until the Company's next rate case.

In summary, the ARP relates to certain capital investment and associated incremental revenue requirements up until March 31, 2011, and this period of time will be reflected in the annual DAC filings until the Company's next rate case. Because the ARP terminated as of March 31, 2011, as of April 1, 2011, the type of investment and incremental revenue requirements that had been previously accounted for in the ARP are now addressed prospectively in annual ISR Plans and will be separately reconciled each year in the annual DAC filings.

Division 2-1 (Gas)

Request:

Please provide a breakdown of the drivers of the increase in capital leak repair spending.

Response:

The mandated program category encompasses spending for several types of program work including capital leak repairs. Historically, spending for all types of work in this category was tracked using a single accounting code. Thus, to determine the drivers of the spending levels for FY2012, the Company is currently undertaking a manual review of all spending for all costs charged to the mandated capital program category. The Company estimates this review will be completed by the end of January 2012. At that time, the Company will report the results of its review to the Division.

Please note that starting in October, 2011 the Company implemented new accounting codes to more accurately track work types within the mandated capital category and other capital categories. Thus, going forward, and for FY2013, the Company will have additional detail regarding mandated capital spending.

Prepared by or under the supervision of: Laurie T. Brown

Division 2-2

Request:

Please provide a breakdown of the 22,000 meter changes including a description of the reasons for the meter changes per category.

Response:

For FY 2013, Meter replacements are estimated at 22,000, which are broken down as follows:

Residential Meter Changes for Periodic Program – 15,000
Commercial/Industrial Meter Changes for Periodic Program – 1,150
Misc Changes (Cust Complaint, Damage, Load Change, High Bill, Tamper, etc) – 4,000
Meter Resets (install after remove for nonpayment, construction etc) -1,250
Change for Automatic Meter Reading (AMR) – 400

Total: 21,800

Of that projected amount, many meters will be removed, reconditioned, tested, and placed back in service. A subset of those meters, however, cannot be placed back in service and must be replaced with new meters.

We project a total of 7,860 meters will be purchased to support the FY 2013 Meter Replacement Program with a total Capital Cost of \$2.12 M.

Prepared by or under the supervision of: Laurie Brown

The Narragansett Electric Company
d/b/a National Grid
FY 2013 Gas Infrastructure, Safety, and Reliability Plan
Responses to Division's Data Requests – Set 2
Issued on December 2, 2011

Division 2-3

Request:

What is the Company's targeted amount for scheduled meter replacement?

Response:

Please see response to DIV 2-2, above.

Prepared by or under the supervision of: Laurie Brown

The Narragansett Electric Company
d/b/a National Grid
FY 2013 Gas Infrastructure, Safety, and Reliability Plan
Responses to Division's Data Requests – Set 2
Issued on December 2, 2011

Division 2-4 (Gas)

Request:

Please provide the cumulative effect on the revenue requirement for the five-year period through FY2017 based on the forecast provided in Attachments 2 of the proposed FY 2013 Gas ISR Plan.

Response:

Please refer to Attachment DIV 2-4 for the Company's response.

Prepared by or under the supervision of: William Richer

**National Grid - RI Gas
d/b/a National Grid
Gas Infrastructure, Safety and Reliability (ISR) Plan
Computation of Annual Revenue Requirement**

Line No.		<u>Fiscal Year</u> <u>2012</u> (a)	<u>Fiscal Year</u> <u>2013</u> (b)	<u>Fiscal Year</u> <u>2014</u> (c)	<u>Fiscal Year</u> <u>2015</u> (b)	<u>Fiscal Year</u> <u>2016</u> (b)	<u>Fiscal Year</u> <u>2017</u> (b)
	Capital Investment:						
	Forecasted Revenue Requirement:						
1	FY 2012	\$1,817,890	\$5,089,972	\$4,908,299	\$4,728,399	\$4,550,138	\$4,373,395
2	FY 2013		\$2,506,927	\$6,636,031	\$6,390,560	\$6,149,141	\$5,911,471
3	FY 2014			\$2,966,738	\$7,665,171	\$7,373,772	\$7,088,775
4	FY 2015				\$2,988,280	\$7,717,537	\$7,424,576
5	FY 2016					\$3,000,590	\$7,747,461
6	FY 2017						\$3,075,776
7	Total	<u>\$1,817,890</u>	<u>\$7,596,899</u>	<u>\$14,511,069</u>	<u>\$21,772,410</u>	<u>\$28,791,178</u>	<u>\$35,621,454</u>
8	Total Incremental Fiscal Year Rate Adjustment	<u>\$1,817,890</u>	<u>\$5,779,009</u>	<u>\$8,732,059</u>	<u>\$13,040,351</u>	<u>\$15,750,827</u>	<u>\$19,870,627</u>

Line Notes

- 1 From Page 7 Line 26
- 2 From Page 6 Line 26
- 3 From Page 5 Line 28
- 4 From Page 4 Line 28
- 5 From Page 3 Line 28
- 6 From Page 2 Line 28
- 7 Line 1 through Line 6
- 8(b) Line 7 Less Prior Year Line 8

The Narragansett Electric Company
d/b/a National Grid
Illustrative Computation of Gas FY 2017 Capital Investment Revenue Requirement

Line No.			Fiscal Year 2017 (a)	Fiscal Year 2018 (b)
<u>Depreciable Net Capital Included in Rate Base</u>				
1	Total Allowed Capital Included in Rate Base in Current Year		\$63,212,950	\$0
2	Retirements	Line 1 * Retirements Rate	1/ \$2,762,406	\$0
3	Net Depreciable Capital Included in Rate Base	Prior Year Line 3 + Current Year Line 1 - Line 2	\$60,450,544	\$60,450,544
<u>Change in Net Capital Included in Rate Base</u>				
4	Capital Included in Rate Base	Line 1	\$63,212,950	\$0
		As approved per Docket No. 3943, excluding general plant and 2009 CXT		
5	Depreciation Expense		\$18,443,542	\$0
6	Incremental Depreciable Amount	Prior Year Line 6 + Current Line 4 - Line 5	\$44,769,408	\$44,769,408
7	Cost of Removal		\$5,197,050	\$5,197,050
8	Net Plant Amount	Line 6 + Line 7	\$49,966,458	\$49,966,458
<u>Deferred Tax Calculation:</u>				
9	Composite Book Depreciation Rate	As Approved in R.I.P.U.C. Docket No. 3943	3.38%	3.38%
10	Capital Repairs Deduction		50.00%	50.00%
11	20 YR MACRS Tax Depreciation Rates		3.750%	7.219%
12	Annual Tax Depreciation	Line 1*Line 10 + (Line 1 - (Line 1*Line 10))*Line 11 +Line7	\$37,988,768	\$2,281,671
13	Cumulative Tax Depreciation	Prior Year Line 13 + Current Year Line 12	\$37,988,768	\$40,270,439
		In Year 1 (Prior Year Line 3 * Line 9 *50%) then Prior Year		
14	Book Depreciation	Line 3 * Line 9	\$1,021,614	\$2,043,228
15	Cumulative Book Depreciation	Prior Year Line 15 + Current Year Line 14	\$1,021,614	\$3,064,843
16	Cumulative Book / Tax Timer	Line 13 - Line 15	\$36,967,154	\$37,205,597
17	Effective Tax Rate		35.00%	35.00%
18	Deferred Tax Reserve	Line 16 * Line 17	\$12,938,504	\$13,021,959
<u>Rate Base Calculation:</u>				
19	Cumulative Incremental Capital Included in Rate Base	Line 8	\$49,966,458	\$49,966,458
20	Accumulated Depreciation	- Line 15	(\$1,021,614)	(\$3,064,843)
21	Deferred Tax Reserve	- Line 18	(\$12,938,504)	(\$13,021,959)
22	Year End Rate Base	Sum of Lines 19 through 21	\$36,006,340	\$33,879,657
<u>Revenue Requirement Calculation:</u>				
23	Average Rate Base	Line 20÷2 for 2013 then, (Prior Year Line 22 + Current Year Line 22)÷2	\$18,003,170	\$34,942,998
24	Pre-Tax ROR		2/ 11.41%	11.41%
25	Return and Taxes	Line 23 * Line 24	\$2,054,162	\$3,986,996
26	Book Depreciation	Line 14	\$1,021,614	\$2,043,228
27	Property Taxes	\$0 in Year 1, then Prior Year (Line 3 + Line 7 - Line 15) * Property Tax Rate	3/ \$0	\$1,900,004
28	Annual Revenue Requirement	Sum of Lines 25 through 27	\$3,075,776	\$7,930,228

1/ Assumes 4.37% based on 2010 retirements as a percent of capital spend; to be replaced with actual retirements

2/ Weighted Average Cost of Capital as approved in R.I.P.U.C. Docket No. 3943

	Ratio	Rate	Rate	Taxes	Return
Long Term Debt	40.63%	7.99%	3.25%		3.25%
Short Term Debt	11.66%	3.91%	0.46%		0.46%
Common Equity	47.71%	10.50%	5.01%	2.70%	7.71%
	100.00%		8.71%	2.70%	11.41%

3/ Property Tax Rate Calculation based on 2010 actual net plant in service and property tax expense applicable to distribution

Plant in Service	\$613,322,109	
Completed Construction Not Classified	\$41,756,384	
Total Plant in Service	\$655,078,494	
Less: Intangible Plant	\$28,697,923	
Distribution-Plant in Service	\$626,380,570	\$626,380,570
Accumulated Depreciation	\$309,170,951	
Accumulated Depreciation -Intangible Plant	(\$18,669,589)	
Accumulated Depreciation Distribution-Plant in Service		\$290,501,363
Distribution-Related Net Plant in Service	\$335,879,208	\$335,879,208
Distribution-Related Rate Year Property Tax Expense		\$9,878,147
Distribution-Related Property Tax Rate		2.94%

The Narragansett Electric Company
d/b/a National Grid
Illustrative Computation of Gas FY 2016 Capital Investment Revenue Requirement

Line No.			Fiscal Year 2016 (a)	Fiscal Year 2017 (b)
<u>Depreciable Net Capital Included in Rate Base</u>				
1	Total Allowed Capital Included in Rate Base in Current Year		\$62,061,607	\$0
2	Retirements	Line 1 * Retirements Rate	1/ \$2,712,092	\$0
3	Net Depreciable Capital Included in Rate Base	Prior Year Line 3 + Current Year Line 1 - Line 2	\$59,349,515	\$59,349,515
<u>Change in Net Capital Included in Rate Base</u>				
4	Capital Included in Rate Base	Line 1 As approved per Docket No. 3943, excluding general plant and 2009 CXT	\$62,061,607	\$0
5	Depreciation Expense		\$18,443,542	\$0
6	Incremental Depreciable Amount	Prior Year Line 6 + Current Line 4 - Line 5	\$43,618,065	\$43,618,065
7	Cost of Removal		\$5,102,393	\$5,102,393
8	Net Plant Amount	Line 6 + Line 7	\$48,720,458	\$48,720,458
<u>Deferred Tax Calculation:</u>				
9	Composite Book Depreciation Rate	As Approved in R.I.P.U.C. Docket No. 3943	3.38%	3.38%
10	Capital Repairs Deduction		50.00%	50.00%
11	20 YR MACRS Tax Depreciation Rates		3.750%	7.219%
12	Annual Tax Depreciation	Line 1*10 + (Line 1 - (Line 1*Line10))*Line 11 +Line7	\$37,296,852	\$2,240,114
13	Cumulative Tax Depreciation	Prior Year Line 13 + Current Year Line 12	\$37,296,852	\$39,536,965
14	Book Depreciation	In Year 1 (Prior Year Line 3 * Line 9 *50%) then Prior Year Line 3 * Line 9	\$1,003,007	\$2,006,014
15	Cumulative Book Depreciation	Prior Year Line 15 + Current Year Line 14	\$1,003,007	\$3,009,020
16	Cumulative Book / Tax Timer	Line 13 - Line 15	\$36,293,845	\$36,527,945
17	Effective Tax Rate		35.00%	35.00%
18	Deferred Tax Reserve	Line 16 * Line 17	\$12,702,846	\$12,784,781
<u>Rate Base Calculation:</u>				
19	Cumulative Incremental Capital Included in Rate Base	Line 8	\$48,720,458	\$48,720,458
20	Accumulated Depreciation	- Line 15	(\$1,003,007)	(\$3,009,020)
21	Deferred Tax Reserve	- Line 18	(\$12,702,846)	(\$12,784,781)
22	Year End Rate Base	Sum of Lines 19 through 21	\$35,014,606	\$32,926,657
<u>Revenue Requirement Calculation:</u>				
23	Average Rate Base	Line 20÷2 for 2013 then, (Prior Year Line 22 + Current Year Line 22)÷2	\$17,507,303	\$33,970,631
24	Pre-Tax ROR		2/ 11.41%	11.41%
25	Return and Taxes	Line 23 * Line 24	\$1,997,583	\$3,876,049
26	Book Depreciation	Line 14	\$1,003,007	\$2,006,014
27	Property Taxes	\$0 in Year 1, then Prior Year (Line 3 + Line 7 - Line 15) * Property Tax Rate	3/ \$0	\$1,865,398
28	Annual Revenue Requirement	Sum of Lines 25 through 27	\$3,000,590	\$7,747,461

1/ Assumes 4.37% based on 2010 retirements as a percent of capital spend; to be replaced with actual retirements

2/ Weighted Average Cost of Capital as approved in R.I.P.U.C. Docket No. 3943

	Ratio	Rate	Rate	Taxes	Return
Long Term Debt	40.63%	7.99%	3.25%		3.25%
Short Term Debt	11.66%	3.91%	0.46%		0.46%
Common Equity	47.71%	10.50%	5.01%	2.70%	7.71%
	100.00%		8.71%	2.70%	11.41%

3/ Property Tax Rate Calculation based on 2010 actual net plant in service and property tax expense applicable to distribution

Plant in Service	\$613,322,109	
Completed Construction Not Classified	\$41,756,384	
Total Plant in Service	\$655,078,494	
Less: Intangible Plant	\$28,697,923	
Distribution-Plant in Service	\$626,380,570	\$626,380,570
Accumulated Depreciation	\$309,170,951	
Accumulated Depreciation -Intangible Plant	(\$18,669,589)	
Accumulated Depreciation Distribution-Plant in Service		\$290,501,363
Distribution-Related Net Plant in Service	\$335,879,208	\$335,879,208
Distribution-Related Rate Year Property Tax Expense		\$9,878,147
Distribution-Related Property Tax Rate		2.94%

**The Narragansett Electric Company
d/b/a National Grid
Illustrative Computation of Gas FY 2015 Capital Investment Revenue Requirement**

Line No.		Fiscal Year 2015 (a)	Fiscal Year 2016 (b)	Fiscal Year 2017 (c)
<u>Depreciable Net Capital Included in Rate Base</u>				
1	Total Allowed Capital Included in Rate Base in Current Year	\$61,873,105	\$0	\$0
2	Retirements	Line 1 * Retirements Rate	1/	\$2,703,855
3	Net Depreciable Capital Included in Rate Base	Prior Year Line 3 + Current Year Line 1 - Line 2	\$59,169,250	\$59,169,250
<u>Change in Net Capital Included in Rate Base</u>				
4	Capital Included in Rate Base	Line 1	\$61,873,105	\$0
5	Depreciation Expense	As approved per Docket No. 3943, excluding general plant and 2009 CXT	\$18,443,542	\$0
6	Incremental Depreciable Amount	Prior Year Line 6 + Current Line 4 - Line 5	\$43,429,563	\$43,429,563
7	Cost of Removal		\$5,086,895	\$5,086,895
8	Net Plant Amount	Line 6 + Line 7	\$48,516,458	\$48,516,458
<u>Deferred Tax Calculation:</u>				
9	Composite Book Depreciation Rate	As Approved in R.I.P.U.C. Docket No. 3943	3.38%	3.38%
10	Capital Repairs Deduction		50.00%	50.00%
11	20 YR MACRS Tax Depreciation Rates		3.750%	7.219%
12	Annual Tax Depreciation	Line 1*10 + (Line 1 - (Line 1*Line10))*Line 11 +Line7	\$37,183,568	\$2,233,310
13	Cumulative Tax Depreciation	Prior Year Line 13 + Current Year Line 12	\$37,183,568	\$39,416,878
14	Book Depreciation	In Year 1 (Prior Year Line 3 * Line 9 *50%) then Prior Year Line 3 * Line 9	\$999,960	\$1,999,921
15	Cumulative Book Depreciation	Prior Year Line 15 + Current Year Line 14	\$999,960	\$2,999,881
16	Cumulative Book / Tax Timer	Line 13 - Line 15	\$36,183,608	\$36,416,997
17	Effective Tax Rate		35.00%	35.00%
18	Deferred Tax Reserve	Line 16 * Line 17	\$12,664,263	\$12,745,949
<u>Rate Base Calculation:</u>				
19	Cumulative Incremental Capital Included in Rate Base	Line 8	\$48,516,458	\$48,516,458
20	Accumulated Depreciation	- Line 15	(\$999,960)	(\$2,999,881)
21	Deferred Tax Reserve	- Line 18	(\$12,664,263)	(\$12,745,949)
22	Year End Rate Base	Sum of Lines 19 through 21	\$34,852,235	\$32,770,628
<u>Revenue Requirement Calculation:</u>				
23	Average Rate Base	Line 20÷2 for 2013 then, (Prior Year Line 22 + Current Year Line 22)÷2	\$17,426,117	\$33,811,431
24	Pre-Tax ROR		2/	11.41%
25	Return and Taxes	Line 23 * Line 24	\$1,988,320	\$3,857,884
26	Book Depreciation	Line 14	\$999,960	\$1,999,921
27	Property Taxes	\$0 in Year 1, then Prior Year (Line 3 + Line 7 - Line 15) * Property Tax Rate	3/	\$0
28	Annual Revenue Requirement	Sum of Lines 25 through 27	\$2,988,280	\$7,717,537

1/ Assumes 4.37% based on 2010 retirements as a percent of capital spend; to be replaced with actual retirements

2/ Weighted Average Cost of Capital as approved in R.I.P.U.C. Docket No. 3943

	Ratio	Rate	Rate	Taxes	Return
Long Term Debt	40.63%	7.99%	3.25%		3.25%
Short Term Debt	11.66%	3.91%	0.46%		0.46%
Common Equity	47.71%	10.50%	5.01%	2.70%	7.71%
	<u>100.00%</u>		<u>8.71%</u>	<u>2.70%</u>	<u>11.41%</u>

3/ Property Tax Rate Calculation based on 2010 actual net plant in service and property tax expense applicable to distribution

Plant in Service	\$613,322,109	
Completed Construction Not Classified	\$41,756,384	
Total Plant in Service	\$655,078,494	
Less: Intangible Plant	\$28,697,923	
Distribution-Plant in Service	\$626,380,570	\$626,380,570
Accumulated Depreciation	\$309,170,951	
Accumulated Depreciation -Intangible Plant	(\$18,669,589)	
Accumulated Depreciation Distribution-Plant in Service	\$290,501,363	
Distribution-Related Net Plant in Service	\$335,879,208	\$335,879,208
Distribution-Related Rate Year Property Tax Expense	\$9,878,147	
Distribution-Related Property Tax Rate		2.94%

The Narragansett Electric Company
d/b/a National Grid
Illustrative Computation of Gas FY 2014 Capital Investment Revenue Requirement

Line No.		Fiscal Year 2014 (a)	Fiscal Year 2015 (b)	Fiscal Year 2016 (c)	Fiscal Year 2017 (d)
Depreciable Net Capital Included in Rate Base					
1	Total Allowed Capital Included in Rate Base in Current Year	\$61,543,226	\$0	\$0	\$0
2	Retirements	Line 1 * Retirements Rate 1/	\$2,689,439	\$0	\$0
3	Net Depreciable Capital Included in Rate Base	Prior Year Line 3 + Current Year Line 1 - Line 2	\$58,853,787	\$58,853,787	\$58,853,787
Change in Net Capital Included in Rate Base					
4	Capital Included in Rate Base	Line 1	\$61,543,226	\$0	\$0
5	Depreciation Expense	As approved per Docket No. 3943, excluding general plant and 2009 CXT	\$18,443,542	\$0	\$0
6	Incremental Depreciable Amount	Prior Year Line 6 + Current Year Line 4 - Line 5	\$43,099,684	\$43,099,684	\$43,099,684
7	Cost of Removal		\$5,059,774	\$5,059,774	\$5,059,774
8	Net Plant Amount	Line 6 + Line 7	\$48,159,458	\$48,159,458	\$48,159,458
Deferred Tax Calculation:					
9	Composite Book Depreciation Rate	As Approved in R.I.P.U.C. Docket No. 3943	3.38%	3.38%	3.38%
10	Capital Repairs Deduction		50.00%	50.00%	50.00%
11	20 YR MACRS Tax Depreciation Rates		3.750%	7.219%	6.677%
12	Annual Tax Depreciation	Line 1*10 + (Line 1 - (Line 1*Line10))*Line 11 +Line7	\$36,985,323	\$2,221,403	\$2,054,621
13	Cumulative Tax Depreciation	Prior Year Line 13 + Current Year Line 12	\$36,985,323	\$39,206,725	\$41,261,346
14	Book Depreciation	In Year 1 (Prior Year Line 3 * Line 9 *50%) then Prior Year Line 3 * Line 9	\$994,629	\$1,989,258	\$1,989,258
15	Cumulative Book Depreciation	Prior Year Line 15 + Current Year Line 14	\$994,629	\$2,983,887	\$4,973,145
16	Cumulative Book / Tax Timer	Line 13 - Line 15	\$35,990,694	\$36,222,838	\$36,288,201
17	Effective Tax Rate		35.00%	35.00%	35.00%
18	Deferred Tax Reserve	Line 16 * Line 17	\$12,596,743	\$12,677,993	\$12,700,870
Rate Base Calculation:					
19	Cumulative Incremental Capital Included in Rate Base	Line 8	\$48,159,458	\$48,159,458	\$48,159,458
20	Accumulated Depreciation	- Line 15	(\$994,629)	(\$2,983,887)	(\$4,973,145)
21	Deferred Tax Reserve	- Line 18	(\$12,596,743)	(\$12,677,993)	(\$12,700,870)
22	Year End Rate Base	Sum of Lines 19 through 21	\$34,568,086	\$32,497,578	\$30,485,443
Revenue Requirement Calculation:					
23	Average Rate Base	Line 20÷2 for 2013 then, (Prior Year Line 22 + Current Year Line 22)÷2	\$17,284,043	\$33,532,832	\$31,491,510
24	Pre-Tax ROR		11.41%	11.41%	11.41%
25	Return and Taxes	Line 23 * Line 24 2/	\$1,972,109	\$3,826,096	\$3,593,181
26	Book Depreciation	Line 14	\$994,629	\$1,989,258	\$1,989,258
27	Property Taxes	\$0 in Year 1, then Prior Year (Line 3 + Line 7 - Line 15) * Property Tax Rate 3/	\$0	\$1,849,817	\$1,791,332
28	Annual Revenue Requirement	Sum of Lines 25 through 27	\$2,966,738	\$7,665,171	\$7,373,772

1/ Assumes 4.37% based on 2010 retirements as a percent of capital spend; to be replaced with actual retirements

2/ Weighted Average Cost of Capital as approved in R.I.P.U.C. Docket No. 3943

	Ratio	Rate	Rate	Taxes	Return
Long Term Debt	40.63%	7.99%	3.25%		3.25%
Short Term Debt	11.66%	3.91%	0.46%		0.46%
Common Equity	47.71%	10.50%	5.01%	2.70%	7.71%
	100.00%		8.71%	2.70%	11.41%

3/ Property Tax Rate Calculation based on 2010 actual net plant in service and property tax expense applicable to distribution

Plant in Service	\$613,322,109	
Completed Construction Not Classified	\$41,756,384	
Total Plant in Service	\$655,078,494	
Less: Intangible Plant	\$28,697,923	
Distribution-Plant in Service	\$626,380,570	\$626,380,570
Accumulated Depreciation	\$309,170,951	
Accumulated Depreciation -Intangible Plant	(\$18,669,589)	
Accumulated Depreciation Distribution-Plant in Service		\$290,501,363
Distribution-Related Net Plant in Service	\$335,879,208	\$335,879,208
Distribution-Related Rate Year Property Tax Expense		\$9,878,147
Distribution-Related Property Tax Rate		2.94%

The Narragansett Electric Company
d/b/a National Grid
Illustrative Computation of Gas FY 2013 Capital Investment Revenue Requirement

Line No.		Fiscal Year 2013 (a)	Fiscal Year 2014 (b)	Fiscal Year 2015 (c)	Fiscal Year 2016 (d)	Fiscal Year 2017 (e)
Depreciable Net Capital Included in Rate Base						
1	Total Allowed Capital Included in Rate Base in Current Year	\$57,184,191	\$0			
2	Retirements	\$2,498,949	\$0			
3	Net Depreciable Capital Included in Rate Base	\$54,685,242	\$54,685,242	\$54,685,242	\$54,685,242	\$54,685,242
Change in Net Capital Included in Rate Base						
4	Capital Included in Rate Base	\$57,184,191	\$0	\$0	\$0	\$0
5	Depreciation Expense	\$18,443,542	\$0	\$0	\$0	\$0
6	Incremental Depreciable Amount	\$38,740,649	\$38,740,649	\$38,740,649	\$38,740,649	\$38,740,649
7	Cost of Removal	\$4,701,396	\$4,701,396	\$4,701,396	\$4,701,396	\$4,701,396
8	Net Plant Amount	\$43,442,046	\$43,442,046	\$43,442,046	\$43,442,046	\$43,442,046
Deferred Tax Calculation:						
9	Composite Book Depreciation Rate	As Approved in R.I.P.U.C. Docket No. 3943	3.38%	3.38%	3.38%	3.38%
10	Tax Depreciation	Page 4, Line 20	\$43,137,661	\$1,406,143	\$1,300,570	\$1,203,179
11	Cumulative Tax Depreciation	Prior Year Line 11 + Current Year Line 10	\$43,137,661	\$44,543,804	\$45,844,375	\$47,047,553
12	Book Depreciation	In Year 1 (Prior Year Line 3 * Line 12 * 50%) then Prior Year Line 3 * Line 12	\$924,181	\$1,848,361	\$1,848,361	\$1,848,361
13	Cumulative Book Depreciation	Prior Year Line 13 + Current Year Line 12	\$924,181	\$2,772,542	\$4,620,903	\$6,469,264
14	Cumulative Book / Tax Timer	Line 11 - Line 13	\$42,213,481	\$41,771,262	\$41,223,472	\$40,578,289
15	Effective Tax Rate		35.00%	35.00%	35.00%	35.00%
16	Deferred Tax Reserve	Line 14 * Line 15	\$14,774,718	\$14,619,942	\$14,428,215	\$14,202,401
Rate Base Calculation:						
17	Cumulative Incremental Capital Included in Rate Base	Line 8	\$43,442,046	\$43,442,046	\$43,442,046	\$43,442,046
18	Accumulated Depreciation	- Line 13	(\$924,181)	(\$2,772,542)	(\$4,620,903)	(\$6,469,264)
19	Deferred Tax Reserve	- Line 13	(\$14,774,718)	(\$14,619,942)	(\$14,428,215)	(\$14,202,401)
20	Year End Rate Base	Sum of Lines 17 through 19	\$27,743,147	\$26,049,562	\$24,392,927	\$22,770,380
Revenue Requirement Calculation:						
21	Average Rate Base	Line 20÷2 for 2013 then, (Prior Year Line 20 + Current Year Line 20)÷2	\$13,871,573	\$26,896,354	\$25,221,245	\$23,581,654
22	Pre-Tax ROR		11.41%	11.41%	11.41%	11.41%
23	Return and Taxes	Line 24 * Line 25	\$1,582,747	\$3,068,874	\$2,877,744	\$2,690,667
24	Book Depreciation	Line 15	\$924,181	\$1,848,361	\$1,848,361	\$1,848,361
25	Property Taxes	\$0 in Year 1, then Prior Year (Line 3 + Line 7 - Line 13) * Property Tax Rate	\$0	\$1,718,796	\$1,664,454	\$1,610,113
26	Annual Revenue Requirement	Sum of Lines 23 through 25	\$2,506,927	\$6,636,031	\$6,390,560	\$6,149,141

1/ Assumes 4.37% based on 2010 retirements as a percent of capital spend; to be replaced with actual retirements
2/ Weighted Average Cost of Capital as approved in R.I.P.U.C. Docket No. 3943

	Ratio	Rate	Rate	Taxes	Return
Long Term Debt	40.63%	7.99%	3.25%		3.25%
Short Term Debt	11.66%	3.91%	0.46%		0.46%
Common Equity	47.71%	10.50%	5.01%	2.70%	7.71%
	100.00%		8.71%	2.70%	11.41%

3/ Property Tax Rate Calculation based on 2010 actual net plant in service and property tax expense applicable to distribution

Plant in Service	\$613,322,109
Completed Construction Not Classified	\$41,756,384
Total Plant in Service	\$655,078,494
Less: Intangible Plant	\$28,697,923
Distribution-Plant in Service	\$626,380,570
Accumulated Depreciation	\$309,170,951
Accumulated Depreciation -Intangible Plant	(\$18,669,589)
Accumulated Depreciation Distribution-Plant in Service	\$290,501,363
Distribution-Related Net Plant in Service	\$335,879,208
Distribution-Related Rate Year Property Tax Expense	\$9,878,147
Distribution-Related Property Tax Rate	2.94%

The Narragansett Electric Company
d/b/a National Grid
Illustrative Computation of Gas FY 2012 Capital Investment Revenue Requirement

Line No.		Fiscal Year 2012 (a)	Fiscal Year 2013 (b)	Fiscal Year 2014 (c)	Fiscal Year 2015 (d)	Fiscal Year 2016 (e)	Fiscal Year 2017 (e)
Depreciable Net Capital Included in Rate Base							
1	Total Allowed Capital Included in Rate Base in Current Year	\$47,660,716	\$0	\$0	\$0	\$0	\$0
2	Retirements	\$3,074,116	\$0	\$0	\$0	\$0	\$0
3	Net Depreciable Capital Included in Rate Base	\$44,586,600	\$44,586,600	\$44,586,600	\$44,586,600	\$44,586,600	\$44,586,600
Change in Net Capital Included in Rate Base							
4	Capital Included in Rate Base	\$47,660,716	\$0	\$0	\$0	\$0	\$0
5	Depreciation Expense	\$18,443,542	\$0	\$0	\$0	\$0	\$0
6	Incremental Depreciable Amount	\$29,217,174	\$29,217,174	\$29,217,174	\$29,217,174	\$29,217,174	\$29,217,174
7	Cost of Removal	\$5,755,088	\$5,755,088	\$5,755,088	\$5,755,088	\$5,755,088	\$5,755,088
8	Net Plant Amount	\$34,972,262	\$34,972,262	\$34,972,262	\$34,972,262	\$34,972,262	\$34,972,262
Deferred Tax Calculation:							
9	Composite Book Depreciation Rate	3.38%	3.38%	3.38%	3.38%	3.38%	3.38%
10	Tax Depreciation	\$45,215,927	\$615,012	\$568,837	\$526,240	\$486,711	\$450,248
11	Cumulative Tax Depreciation	\$45,215,927	\$45,830,939	\$46,399,776	\$46,926,017	\$47,412,727	\$47,862,975
12	Book Depreciation	\$753,514	\$1,507,027	\$1,507,027	\$1,507,027	\$1,507,027	\$1,507,027
13	Cumulative Book Depreciation	\$753,514	\$2,260,541	\$3,767,568	\$5,274,595	\$6,781,622	\$8,288,649
14	Cumulative Book / Tax Timer	\$44,462,413	\$43,570,398	\$42,632,209	\$41,651,422	\$40,631,105	\$39,574,326
15	Effective Tax Rate	35.00%	35.00%	35.00%	35.00%	35.00%	35.00%
16	Deferred Tax Reserve	\$15,561,845	\$15,249,639	\$14,921,273	\$14,577,998	\$14,220,887	\$13,851,014
Rate Base Calculation:							
17	Cumulative Incremental Capital Included in Rate Base	\$34,972,262	\$34,972,262	\$34,972,262	\$34,972,262	\$34,972,262	\$34,972,262
18	Accumulated Depreciation	(\$753,514)	(\$2,260,541)	(\$3,767,568)	(\$5,274,595)	(\$6,781,622)	(\$8,288,649)
19	Deferred Tax Reserve	(\$15,561,845)	(\$15,249,639)	(\$14,921,273)	(\$14,577,998)	(\$14,220,887)	(\$13,851,014)
20	Year End Rate Base	\$18,656,904	\$17,462,082	\$16,283,421	\$15,119,670	\$13,969,753	\$12,832,599
Revenue Requirement Calculation:							
21	Average Rate Base	\$9,328,452	\$18,059,493	\$16,872,752	\$15,701,545	\$14,544,711	\$13,401,176
22	Pre-Tax ROR	11.41%	11.41%	11.41%	11.41%	11.41%	11.41%
23	Return and Taxes	\$1,064,376	\$2,060,588	\$1,925,181	\$1,791,546	\$1,659,552	\$1,529,074
24	Book Depreciation	\$753,514	\$1,507,027	\$1,507,027	\$1,507,027	\$1,507,027	\$1,507,027
25	Property Taxes	\$0	\$1,522,357	\$1,476,091	\$1,429,825	\$1,383,560	\$1,337,294
26	Annual Revenue Requirement	\$1,817,890	\$5,089,972	\$4,908,299	\$4,728,399	\$4,550,138	\$4,373,395

1/ Assumes 6.45% based on 2009 retirements as a percent of capital spend; to be replaced with actual retirements
2/ Weighted Average Cost of Capital as approved in R.I.P.U.C. Docket No. 3943

	Ratio	Rate	Rate	Taxes	Return
Long Term Debt	40.63%	7.99%	3.25%		3.25%
Short Term Debt	11.66%	3.91%	0.46%		0.46%
Common Equity	47.71%	10.50%	5.01%	2.70%	7.71%
	100.00%		8.71%	2.70%	11.41%

3/ Property Tax Rate Calculation based on 2009 actual net plant in service and property tax expense applicable to distribution

Plant in Service	\$571,320,698	
Completed Construction Not Classified	\$41,766,356	
Total Plant in Service	\$613,087,054	
Less: Intangible Plant	\$28,679,000	
Distribution-Plant in Service	\$584,408,054	\$584,408,054
Accumulated Depreciation	\$295,189,100	
Accumulated Depreciation -Intangible Plant	(\$17,323,010)	
Accumulated Depreciation Distribution-Plant in Service		\$277,866,090
Distribution-Related Net Plant in Service	\$306,541,964	\$306,541,964
Distribution-Related Rate Year Property Tax Expense		\$9,413,974
Distribution-Related Property Tax Rate		3.07%

The Narragansett Electric Company
d/b/a National Grid
Illustrative Calculation of Tax Depreciation and Repairs Deduction
On FY 2013 Capital Investment

Line No.			Fiscal Year	Fiscal Year	Fiscal Year	Fiscal Year	Fiscal Year
			2013 (a)	2014 (b)	2015 (c)	2016 (d)	2017 (e)
<u>Capital Repairs Deduction</u>							
1	Plant Additions	Page 1, Line 1	\$57,184,191				
2	Capital Repairs Deduction Rate		50.00%				
3	Capital Repairs Deduction	Line 2 x Line 3	\$28,592,096				
<u>Bonus Depreciation</u>							
4	Plant Additions	Line 1	\$57,184,191				
5	Less Capital Repairs Deduction	Line 3	\$28,592,096				
6	Plant Additions Net of Capital Repairs Deduction	Line 4 - Line 5	\$28,592,095				
7	Percent of Plant Eligible for Bonus Depreciation		85.00%				
8	Plant Eligible for Bonus Depreciation	Line 6 x Line 7	\$24,303,281				
9	Bonus Depreciation Rate (April 2012 - December 2012)	Line 1*75%*50%	37.50%				
10	Bonus Depreciation Rate (January 2013 - March 2013)		0.00%				
11	Total Bonus Depreciation Rate	Line 9 + Line 10	37.50%				
12	Bonus Depreciation	Line 8 x Line 11	\$9,113,730				
<u>Remaining Tax Depreciation</u>							
13	Plant Additions	Line 1	\$57,184,191				
14	Less Capital Repairs Deduction	Line 3	\$28,592,096				
15	Less Bonus Depreciation	Line 12	\$9,113,730				
16	Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation	Line 1 - 14 - 15	\$19,478,365	\$19,478,365	\$19,478,365	\$19,478,365	\$19,478,365
17	20 YR MACRS Tax Depreciation Rates		3.750%	7.219%	6.677%	6.177%	5.713%
18	Remaining Tax Depreciation	Line 16 x Line 17	\$730,439	\$1,406,143	\$1,300,570	\$1,203,179	\$1,112,799
19	Cost of Removal		\$4,701,396				
20	Total Tax Depreciation and Repairs Deduction	Sum of Lines 3, 12, 18, 19	\$43,137,661	\$1,406,143	\$1,300,570	\$1,203,179	\$1,112,799

**The Narragansett Electric Company
d/b/a National Grid
Illustrative Calculation of Tax Depreciation and Repairs Deduction
On FY 2012 Capital Investment**

Line <u>No.</u>		Fiscal Year <u>2012</u> (a)	Fiscal Year <u>2013</u> (b)	Fiscal Year <u>2014</u> (c)	Fiscal Year <u>2015</u>	Fiscal Year <u>2016</u>	Fiscal Year <u>2017</u>
<u>Capital Repairs Deduction</u>							
1	Plant Additions	Page 1, Line 1	\$47,660,716				
2	Capital Repairs Deduction Rate		48.00%				
3	Capital Repairs Deduction	Line 2 x Line 3	\$22,877,144				
<u>Bonus Depreciation</u>							
4	Plant Additions	Line 1	\$47,660,716				
5	Less Capital Repairs Deduction	Line 3	\$22,877,144				
6	Plant Additions Net of Capital Repairs Deduction	Line 4 - Line 5	\$24,783,572				
7	Percent of Plant Eligible for Bonus Depreciation		75.00%				
8	Plant Eligible for Bonus Depreciation	Line 6 x Line 7	\$18,587,679				
9	Bonus Depreciation Rate (April 2011 - December 2011)	1 * 75%	75.00%				
10	Bonus Depreciation Rate (January 2012 - March 2012)	1*25% *50%	12.50%				
11	Total Bonus Depreciation Rate	Line 9 + Line 10	87.50%				
12	Bonus Depreciation	Line 8 x Line 11	\$16,264,219				
<u>Remaining Tax Depreciation</u>							
13	Plant Additions	Line 1	\$47,660,716				
14	Less Capital Repairs Deduction	Line 3	\$22,877,144				
15	Less Bonus Depreciation	Line 12	\$16,264,219				
16	Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation	Line 1 - 14 - 15	\$8,519,353	\$8,519,353	\$8,519,353	\$8,519,353	\$8,519,353
17	20 YR MACRS Tax Depreciation Rates		3.750%	7.219%	6.677%	6.177%	5.713%
18	Remaining Tax Depreciation	Line 16 x Line 17	\$319,476	\$615,012	\$568,837	\$526,240	\$486,711
19	Cost of Removal		\$5,755,088				
20	Total Tax Depreciation and Repairs Deduction	Sum of Lines 3, 12, 18, 19	\$45,215,927	\$615,012	\$568,837	\$526,240	\$486,711
							\$450,248

The Narragansett Electric Company
d/b/a National Grid
FY 2013 Gas Infrastructure, Safety, and Reliability Plan
Responses to Division's Data Requests – Set 2
Issued on December 2, 2011

Division 2-5 (Gas)

Request:

Please provide more detail regarding the reliability underspend in FY 2012.

Response:

Detailed spending on Reliability categories through FY2012 - 2nd Quarter are identified below:

<u>INVESTMENT CATEGORIES</u>	<u>Actual</u>	<u>FYTD</u>		<u>FY2012 Total</u>		
		<u>Budget</u>	<u>Variance</u>	<u>Forecast</u>	<u>Budget</u>	<u>Variance</u>
<u>Reliability</u>						
Gas System Control	\$19,427	\$67,624	\$48,198	\$127,500	\$127,500	\$0
Gas Planning	\$540,616	\$834,814	\$294,198	\$1,000,000	\$1,573,968	\$573,968
Heater Program	\$86,332	\$114,033	\$27,702	\$230,000	\$215,000	(\$15,000)
I&R Reactive Programs	\$316,301	\$592,390	\$276,089	\$1,116,900	\$1,116,900	\$0
LNG	\$195,610	\$718,676	\$523,065	\$865,000	\$1,355,000	\$490,000
Pressure Regulating Facilities	\$1,520,909	\$2,126,856	\$605,947	\$4,443,238	\$4,010,000	(\$433,238)
Valve Installation/Replacement	\$9,222	\$216,929	\$207,707	\$200,000	\$409,000	\$209,000
Water Intrusion	\$504,047	\$424,310	(\$79,737)	\$800,000	\$800,000	\$0
CNG	\$1,295	\$53,039	\$51,744	\$100,000	\$100,000	\$0
Control Line Integrity Program	\$0	\$159,116	\$159,116	\$0	\$300,000	\$300,000
System Automation	\$328,969	\$752,621	\$423,652	\$1,419,000	\$1,419,000	\$0
AMR	\$1,654	\$0	(\$1,654)	\$0	\$0	\$0
Misc. Capital Equipment & Tools	\$130,609	\$153,813	\$23,203	\$510,000	\$290,000	(\$220,000)
Sub-total	\$3,654,991	\$6,214,222	\$2,559,230	\$10,811,638	\$11,716,368	\$904,730

Gas Planning:

Projected under-run is primarily driven by the deferral of two farm tap elimination projects (Corey Lane, Middletown and Cannon Street, Cranston) involving multi-unit developments.

LNG:

The under-run in this category is due to the re-evaluation of project scope for the Exeter LNG plant. The original project design included the installation of two new compressors to be housed in a new building along with system integration to the rest of the plant. The RFP's received for this project were significantly higher than anticipated. A revised plan, which has delayed construction, has been developed reducing the overall scope of work and costs to include the installation of one compressor and a new building with space for a future second compressor to be added. The existing compressors will be maintained and used as backup to the new unit. Proposals on the revised project design are due back in January 2012.

Prepared by or under the supervision of:
Laurie T. Brown

Division 2-5 (Gas) continued p2.

Pressure Regulating Facilities:

Over-spend in this category is a direct result of two issues. First, environmental issues (PCB's, lead paint and asbestos) found at the Tidewater facility requiring additional environmental controls and monitoring. Second, project scope changes at the Warren/Bristol Take Station to include the installation of a new regulator station that will allow for the abandonment of the Barrington regulator station that share the same site as Warren/Bristol.

Valve Replacement:

This program is reactive in nature and determined based on field activity. Currently, fewer valves have been identified for replacement this fiscal year.

Control Line Integrity:

Control Line Integrity work will be deferred until FY2013. The control line projects identified require further field investigation and testing to determine the full work scope. The field testing and scope development will be completed late December, 2011.

Misc. Capital Equipment & Tools:

This category currently projects overspend. However, the spend is discretionary and is monitored to ensure overspend is limited.

Division 2-6 (Gas)

Request:

Please provide additional detail regarding revisions to the I-195 Project including impact on revenue requirement and bill impacts related to the additional proposed incremental spending as well as more detail relative to the work plans as currently provided by RIDOT.

Response:

Based on the most current work plans related to the I-195 project, the projected spending budget of \$398,000 will increase to \$692,300 reflecting an increase in the amount of gas pipe installation from 2,400 feet to 4,400 feet. As shown in Attachment 1 to this response, this adjustment to the I-195 spending budget results in a \$17,449 increase to the proposed FY 2013 Gas ISR revenue requirement. Attachment 2 to this response provides the resulting change in bill impacts. Attachment 3 to this response provides a description of the components to the projected gas main work for the I-195 project, including footage and estimated costs, as well as a Preliminary Master Plan for Proposed Development Parcels.

Prepared by or under the supervision of Laurie T. Brown

National Grid - RI Gas
d/b/a National Grid
Gas Infrastructure, Safety and Reliability (ISR) Plan
Computation of Annual Revenue Requirement

<u>Line No.</u>		Fiscal Year <u>2012</u> (a)	Fiscal Year <u>2013</u> (b)	Fiscal Year <u>2014</u> (c)
	Capital Investment:			
	Forecasted Revenue Requirement:			
1	FY 2012	\$1,817,890	\$5,089,972	\$4,908,299
2	FY 2013		\$2,506,927	\$6,636,031
3	Total	\$1,817,890	\$7,596,899	\$11,544,330
4	Total Incremental Fiscal Year Rate Adjustment	\$1,817,890	\$5,779,009	

Line Notes

- 1 Column (a) - From Page 3 Line 26 (Col a)
- 1 Column (b) - From Page 3 Line 26 (Col b)
- 1 Column (c) - From Page 3 Line 26 (Col c)
- 2 Column (b) - From Page 2 Line 26 (Col a)
- 2 Column (b) - From Page 2 Line 26 (Col b)

The Narragansett Electric Company
d/b/a National Grid
Illustrative Computation of Gas FY 2013 Capital Investment Revenue Requirement

Line No.			Fiscal Year	Fiscal Year
			2013	2014
			(a)	(b)
<u>Depreciable Net Capital Included in Rate Base</u>				
1	Total Allowed Capital Included in Rate Base in Current Year		\$57,184,191	\$0
2	Retirements	Line 1 * Retirements Rate	1/ \$2,498,949	\$0
3	Net Depreciable Capital Included in Rate Base	Prior Year Line 3 + Current Year Line 1 - Line 2	\$54,685,242	\$54,685,242
<u>Change in Net Capital Included in Rate Base</u>				
4	Capital Included in Rate Base	Line 1	\$57,184,191	\$0
5	Depreciation Expense	As approved per Docket No. 3943, excluding general plant and 2009 CXT	\$18,443,542	\$0
6	Incremental Depreciable Amount	Prior Year Line 6 + Current Line 4 - Line 5	\$38,740,649	\$38,740,649
7	Cost of Removal		\$4,701,396	\$4,701,396
8	Net Plant Amount	Line 6 + Line 7	\$43,442,046	\$43,442,046
<u>Deferred Tax Calculation:</u>				
9	Composite Book Depreciation Rate	As Approved in R.I.P.U.C. Docket No. 3943	3.38%	3.38%
10	Tax Depreciation	Page 4, Line 20	\$43,137,661	\$1,406,143
11	Cumulative Tax Depreciation	Prior Year Line 11 + Current Year Line 10	\$43,137,661	\$44,543,804
12	Book Depreciation	In Year 1 (Prior Year Line 3 * Line 12 *50%) then Prior Year Line 3 * Line 12	\$924,181	\$1,848,361
13	Cumulative Book Depreciation	Prior Year Line 13 + Current Year Line 12	\$924,181	\$2,772,542
14	Cumulative Book / Tax Timer	Line 11 - Line 13	\$42,213,481	\$41,771,262
15	Effective Tax Rate		35.00%	35.00%
16	Deferred Tax Reserve	Line 14 * Line 15	\$14,774,718	\$14,619,942
<u>Rate Base Calculation:</u>				
17	Cumulative Incremental Capital Included in Rate Base	Line 8	\$43,442,046	\$43,442,046
18	Accumulated Depreciation	- Line 13	(\$924,181)	(\$2,772,542)
19	Deferred Tax Reserve	- Line 13	(\$14,774,718)	(\$14,619,942)
20	Year End Rate Base	Sum of Lines 17 through 19	\$27,743,147	\$26,049,562
<u>Revenue Requirement Calculation:</u>				
21	Average Rate Base	Line 20÷2 for 2013 then, (Prior Year Line 20 + Current Year Line 20)÷2	\$13,871,573	\$26,896,354
22	Pre-Tax ROR		2/ 11.41%	11.41%
23	Return and Taxes	Line 24 * Line 25	\$1,582,747	\$3,068,874
24	Book Depreciation	Line 15	\$924,181	\$1,848,361
25	Property Taxes	\$0 in Year 1, then Prior Year (Line 3 + Line 7 - Line 13) * Property Tax Rate	3/ \$0	\$1,718,796
26	Annual Revenue Requirement	Sum of Lines 23 through 25	\$2,506,927	\$6,636,031

1/ Assumes 4.37% based on 2010 retirements as a percent of capital spend; to be replaced with actual retirements

2/ Weighted Average Cost of Capital as approved in R.I.P.U.C. Docket No. 3943

	Ratio	Rate	Rate	Taxes	Return
Long Term Debt	40.63%	7.99%	3.25%		3.25%
Short Term Debt	11.66%	3.91%	0.46%		0.46%
Common Equity	47.71%	10.50%	5.01%	2.70%	7.71%
	100.00%		8.71%	2.70%	11.41%

3/ Property Tax Rate Calculation based on 2010 actual net plant in service and property tax expense applicable to distribution

Plant in Service	\$613,322,109	
Completed Construction Not Classified	\$41,756,384	
Total Plant in Service	\$655,078,494	
Less: Intangible Plant	\$28,697,923	
Distribution-Plant in Service	\$626,380,570	\$626,380,570
Accumulated Depreciation	\$309,170,951	
Accumulated Depreciation -Intangible Plant	(\$18,669,589)	
Accumulated Depreciation Distribution-Plant in Service		\$290,501,363
Distribution-Related Net Plant in Service	\$335,879,208	\$335,879,208
Distribution-Related Rate Year Property Tax Expense		\$9,878,147
Distribution-Related Property Tax Rate		2.94%

The Narragansett Electric Company
d/b/a National Grid
Illustrative Computation of Gas FY 2012 Capital Investment Revenue Requirement

Line No.		Fiscal Year 2012 (a)	Fiscal Year 2013 (b)	Fiscal Year 2014 (c)
<u>Depreciable Net Capital Included in Rate Base</u>				
1	Total Allowed Capital Included in Rate Base in Current Year	\$47,660,716	\$0	\$0
2	Retirements	Line 1 * Retirements Rate	\$0	\$0
3	Net Depreciable Capital Included in Rate Base	Prior Year Line 3 + Current Year Line 1 - Line 2	\$44,586,600	\$44,586,600
<u>Change in Net Capital Included in Rate Base</u>				
4	Capital Included in Rate Base	Line 1	\$47,660,716	\$0
5	Depreciation Expense	As approved per Docket No. 3943, excluding general plant and 2009 CXT	\$18,443,542	\$0
6	Incremental Depreciable Amount	Prior Year Line 6 + Current Line 4 - Line 5	\$29,217,174	\$29,217,174
7	Cost of Removal		\$5,755,088	\$5,755,088
8	Net Plant Amount	Line 6 + Line 7	\$34,972,262	\$34,972,262
<u>Deferred Tax Calculation:</u>				
9	Composite Book Depreciation Rate	As Approved in R.I.P.U.C. Docket No. 3943	3.38%	3.38%
10	Tax Depreciation	Page 5, Line 20	\$45,215,927	\$615,012
11	Cumulative Tax Depreciation	Prior Year Line 11 + Current Year Line 10	\$45,215,927	\$45,830,939
12	Book Depreciation	In Year 1 (Prior Year Line 3 * Line 12 *50%) then Prior Year Line 3 * Line12	\$753,514	\$1,507,027
13	Cumulative Book Depreciation	Prior Year Line 13 + Current Year Line 12	\$753,514	\$2,260,541
14	Cumulative Book / Tax Timer	Line 11 - Line 13	\$44,462,413	\$43,570,398
15	Effective Tax Rate		35.00%	35.00%
16	Deferred Tax Reserve	Line 14 * Line 15	\$15,561,845	\$15,249,639
<u>Rate Base Calculation:</u>				
17	Cumulative Incremental Capital Included in Rate Base	Line 8	\$34,972,262	\$34,972,262
18	Accumulated Depreciation	- Line 13	(\$753,514)	(\$2,260,541)
19	Deferred Tax Reserve	- Line 13	(\$15,561,845)	(\$15,249,639)
20	Year End Rate Base	Sum of Lines 17 through 19	\$18,656,904	\$17,462,082
<u>Revenue Requirement Calculation:</u>				
21	Average Rate Base	Line 20÷2 for 2013 then, (Prior Year Line 20 + Current Year Line 20)÷2	\$9,328,452	\$18,059,493
22	Pre-Tax ROR		11.41%	11.41%
23	Return and Taxes	Line 24 * Line 25	\$1,064,376	\$2,060,588
24	Book Depreciation	Line 15	\$753,514	\$1,507,027
25	Property Taxes	\$0 in Year 1, then Prior Year (Line 3 + Line 7 - Line 13) * Property Tax Rate	\$0	\$1,522,357
26	Annual Revenue Requirement	Sum of Lines 23 through 25	\$1,817,890	\$5,089,972

1/ Assumes 6.45% based on 2009 retirements as a percent of capital spend; to be replaced with actual retirements

2/ Weighted Average Cost of Capital as approved in R.I.P.U.C. Docket No. 3943

	Ratio	Rate	Rate	Taxes	Return
Long Term Debt	40.63%	7.99%	3.25%		3.25%
Short Term Debt	11.66%	3.91%	0.46%		0.46%
Common Equity	47.71%	10.50%	5.01%	2.70%	7.71%
	100.00%		8.71%	2.70%	11.41%

3/ Property Tax Rate Calculation based on 2009 actual net plant in service and property tax expense applicable to distribution

Plant in Service	\$571,320,698	
Completed Construction Not Classified	\$41,766,356	
Total Plant in Service	\$613,087,054	
Less: Intangible Plant	\$28,679,000	
Distribution-Plant in Service	\$584,408,054	\$584,408,054
Accumulated Depreciation	\$295,189,100	
Accumulated Depreciation -Intangible Plant	(\$17,323,010)	
Accumulated Depreciation Distribution-Plant in Service		\$277,866,090
Distribution-Related Net Plant in Service	\$306,541,964	\$306,541,964
Distribution-Related Rate Year Property Tax Expense		\$9,413,974
Distribution-Related Property Tax Rate		3.07%

The Narragansett Electric Company
d/b/a National Grid
Illustrative Calculation of Tax Depreciation and Repairs Deduction
On FY 2013 Capital Investment

Line No.			Fiscal Year <u>2013</u> (a)	Fiscal Year <u>2014</u> (b)
	<u>Capital Repairs Deduction</u>			
1	Plant Additions	Page 1, Line 1	\$57,184,191	
2	Capital Repairs Deduction Rate		50.00%	
3	Capital Repairs Deduction	Line 2 x Line 3	<u>\$28,592,096</u>	
	<u>Bonus Depreciation</u>			
4	Plant Additions	Line 1	\$57,184,191	
5	Less Capital Repairs Deduction	Line 3	<u>\$28,592,096</u>	
6	Plant Additions Net of Capital Repairs Deduction	Line 4 - Line 5	\$28,592,095	
7	Percent of Plant Eligible for Bonus Depreciation		<u>85.00%</u>	
8	Plant Eligible for Bonus Depreciation	Line 6 x Line 7	\$24,303,281	
9	Bonus Depreciation Rate (April 2012 - December 2012)	Line 1*75%*50%	37.50%	
10	Bonus Depreciation Rate (January 2013 - March 2013)		<u>0.00%</u>	
11	Total Bonus Depreciation Rate	Line 9 + Line 10	37.50%	
12	Bonus Depreciation	Line 8 x Line 11	\$9,113,730	
	<u>Remaining Tax Depreciation</u>			
13	Plant Additions	Line 1	\$57,184,191	
14	Less Capital Repairs Deduction	Line 3	\$28,592,096	
15	Less Bonus Depreciation	Line 12	<u>\$9,113,730</u>	
16	Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation	Line 1 - 14 - 15	\$19,478,365	\$19,478,365
17	20 YR MACRS Tax Depreciation Rates		<u>3.750%</u>	7.219%
18	Remaining Tax Depreciation	Line 16 x Line 17	\$730,439	\$1,406,143
19	Cost of Removal		\$4,701,396	
20	Total Tax Depreciation and Repairs Deduction	Sum of Lines 3, 12, 18, 19	<u>\$43,137,661</u>	<u>\$1,406,143</u>

**The Narragansett Electric Company
d/b/a National Grid
Illustrative Calculation of Tax Depreciation and Repairs Deduction
On FY 2012 Capital Investment**

Line No.			Fiscal Year <u>2012</u> (a)	Fiscal Year <u>2013</u> (b)	Fiscal Year <u>2014</u> (c)
	<u>Capital Repairs Deduction</u>				
1	Plant Additions	Page 1, Line 1	\$47,660,716		
2	Capital Repairs Deduction Rate		<u>48.00%</u>		
3	Capital Repairs Deduction	Line 2 x Line 3	\$22,877,144		
	<u>Bonus Depreciation</u>				
4	Plant Additions	Line 1	\$47,660,716		
5	Less Capital Repairs Deduction	Line 3	<u>\$22,877,144</u>		
6	Plant Additions Net of Capital Repairs Deduction	Line 4 - Line 5	\$24,783,572		
7	Percent of Plant Eligible for Bonus Depreciation		<u>75.00%</u>		
8	Plant Eligible for Bonus Depreciation	Line 6 x Line 7	\$18,587,679		
9	Bonus Depreciation Rate (April 2011 - December 2011)	1 * 75%	75.00%		
10	Bonus Depreciation Rate (January 2012 - March 2012)	1*25% *50%	<u>12.50%</u>		
11	Total Bonus Depreciation Rate	Line 9 + Line 10	87.50%		
12	Bonus Depreciation	Line 8 x Line 11	\$16,264,219		
	<u>Remaining Tax Depreciation</u>				
13	Plant Additions	Line 1	\$47,660,716		
14	Less Capital Repairs Deduction	Line 3	\$22,877,144		
15	Less Bonus Depreciation	Line 12	<u>\$16,264,219</u>		
16	Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation	Line 1 - 14 - 15	\$8,519,353	\$8,519,353	\$8,519,353
17	20 YR MACRS Tax Depreciation Rates		<u>3.750%</u>	<u>7.219%</u>	<u>6.677%</u>
18	Remaining Tax Depreciation	Line 16 x Line 17	\$319,476	\$615,012	\$568,837
19	Cost of Removal		\$5,755,088		
20	Total Tax Depreciation and Repairs Deduction	Sum of Lines 3, 12, 18, 19	<u>\$45,215,927</u>	<u>\$615,012</u>	<u>\$568,837</u>

National Grid
Rhode Island - Gas

**Bill Impact Analysis with Various Levels of Consumption:
ISR Rates**

Residential Heating:

Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference	% Chg	Base Rates	Difference due to:			EnergyEff
						GCR	DAC		
							Base DAC	ISR	
600	\$966	\$953	\$13	1.3%	\$0	\$0.00	\$0.00	\$12.66	\$0.00
664	\$1,053	\$1,039	\$14	1.3%	\$0	\$0.00	\$0.00	\$13.99	\$0.00
730	\$1,143	\$1,128	\$15	1.4%	\$0	\$0.00	\$0.00	\$15.41	\$0.00
794	\$1,229	\$1,212	\$17	1.4%	\$0	\$0.00	\$0.00	\$16.75	\$0.00
857	\$1,311	\$1,293	\$18	1.4%	\$0	\$0.00	\$0.00	\$18.08	\$0.00
Average Customer 922	\$1,395	\$1,375	\$19	1.4%	\$0	\$0.00	\$0.00	\$19.44	\$0.00
987	\$1,479	\$1,458	\$21	1.4%	\$0	\$0.00	\$0.00	\$20.83	\$0.00
1,051	\$1,561	\$1,539	\$22	1.4%	\$0	\$0.00	\$0.00	\$22.19	\$0.00
1,114	\$1,640	\$1,616	\$23	1.5%	\$0	\$0.00	\$0.00	\$23.47	\$0.00
1,180	\$1,722	\$1,697	\$25	1.5%	\$0	\$0.00	\$0.00	\$24.91	\$0.00
1,247	\$1,806	\$1,779	\$26	1.5%	\$0	\$0.00	\$0.00	\$26.30	\$0.00

Residential Heating Low Income:

Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference	% Chg	Base Rates	Difference due to:			EnergyEff
						GCR	DAC		
							Base DAC	ISR	
600	\$929	\$916	\$13	1.4%	\$0	\$0.00	\$0.00	\$12.66	\$0.00
664	\$1,013	\$999	\$14	1.4%	\$0	\$0.00	\$0.00	\$13.99	\$0.00
730	\$1,101	\$1,085	\$15	1.4%	\$0	\$0.00	\$0.00	\$15.41	\$0.00
794	\$1,184	\$1,167	\$17	1.4%	\$0	\$0.00	\$0.00	\$16.75	\$0.00
857	\$1,264	\$1,246	\$18	1.5%	\$0	\$0.00	\$0.00	\$18.08	\$0.00
Average Customer 922	\$1,346	\$1,327	\$19	1.5%	\$0	\$0.00	\$0.00	\$19.44	\$0.00
987	\$1,428	\$1,407	\$21	1.5%	\$0	\$0.00	\$0.00	\$20.83	\$0.00
1,051	\$1,508	\$1,486	\$22	1.5%	\$0	\$0.00	\$0.00	\$22.19	\$0.00
1,114	\$1,585	\$1,562	\$23	1.5%	\$0	\$0.00	\$0.00	\$23.47	\$0.00
1,180	\$1,666	\$1,641	\$25	1.5%	\$0	\$0.00	\$0.00	\$24.91	\$0.00
1,247	\$1,748	\$1,722	\$26	1.5%	\$0	\$0.00	\$0.00	\$26.30	\$0.00

National Grid
Rhode Island - Gas

**Bill Impact Analysis with Various Levels of Consumption:
ISR Rates**

Residential Non-Heating:

Annual Consumption (Therms)	Proposed Current Rates	Rates	Difference	% Chg	Base Rates	Difference due to:			EnergyEff	
						GCR	DAC			
							Base DAC	ISR		
123	\$292	\$285	\$7	2.5%	\$0	\$0.00	\$0.00	\$7.06	\$0.00	
137	\$312	\$304	\$8	2.6%	\$0	\$0.00	\$0.00	\$7.86	\$0.00	
147	\$326	\$318	\$8	2.7%	\$0	\$0.00	\$0.00	\$8.43	\$0.00	
161	\$346	\$336	\$9	2.7%	\$0	\$0.00	\$0.00	\$9.21	\$0.00	
176	\$367	\$357	\$10	2.8%	\$0	\$0.00	\$0.00	\$10.11	\$0.00	
Average Customer	189	\$385	\$374	\$11	2.9%	\$0	\$0.00	\$0.00	\$10.85	\$0.00
202	\$403	\$391	\$12	3.0%	\$0	\$0.00	\$0.00	\$11.58	\$0.00	
217	\$424	\$412	\$12	3.0%	\$0	\$0.00	\$0.00	\$12.44	\$0.00	
231	\$444	\$430	\$13	3.1%	\$0	\$0.00	\$0.00	\$13.26	\$0.00	
241	\$458	\$444	\$14	3.1%	\$0	\$0.00	\$0.00	\$13.83	\$0.00	
256	\$479	\$464	\$15	3.2%	\$0	\$0.00	\$0.00	\$14.67	\$0.00	

Residential Non-Heating Low Income:

Annual Consumption (Therms)	Proposed Current Rates	Rates	Difference	% Chg	Base Rates	Difference due to:			EnergyEff	
						GCR	DAC			
							Base DAC	ISR		
123	\$275	\$268	\$7	2.6%	\$0	\$0.00	\$0.00	\$7.06	\$0.00	
137	\$294	\$287	\$8	2.7%	\$0	\$0.00	\$0.00	\$7.86	\$0.00	
147	\$308	\$300	\$8	2.8%	\$0	\$0.00	\$0.00	\$8.43	\$0.00	
161	\$327	\$318	\$9	2.9%	\$0	\$0.00	\$0.00	\$9.21	\$0.00	
176	\$348	\$337	\$10	3.0%	\$0	\$0.00	\$0.00	\$10.11	\$0.00	
Average Customer	189	\$365	\$354	\$11	3.1%	\$0	\$0.00	\$0.00	\$10.85	\$0.00
202	\$383	\$371	\$12	3.1%	\$0	\$0.00	\$0.00	\$11.58	\$0.00	
217	\$403	\$391	\$12	3.2%	\$0	\$0.00	\$0.00	\$12.44	\$0.00	
231	\$422	\$409	\$13	3.2%	\$0	\$0.00	\$0.00	\$13.26	\$0.00	
241	\$436	\$422	\$14	3.3%	\$0	\$0.00	\$0.00	\$13.83	\$0.00	
256	\$456	\$442	\$15	3.3%	\$0	\$0.00	\$0.00	\$14.67	\$0.00	

National Grid
Rhode Island - Gas

**Bill Impact Analysis with Various Levels of Consumption:
ISR Rates**

C & I Small:

Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference	% Chg	Base Rates	Difference due to:			EnergyEff
						GCR	DAC		
							Base DAC	ISR	
824	\$1,412	\$1,397	\$15	1.0%	\$0	\$0.00	\$0.00	\$14.66	\$0.00
916	\$1,532	\$1,515	\$16	1.1%	\$0	\$0.00	\$0.00	\$16.31	\$0.00
1,003	\$1,644	\$1,626	\$18	1.1%	\$0	\$0.00	\$0.00	\$17.89	\$0.00
1,092	\$1,756	\$1,737	\$19	1.1%	\$0	\$0.00	\$0.00	\$19.44	\$0.00
1,179	\$1,862	\$1,841	\$21	1.1%	\$0	\$0.00	\$0.00	\$20.99	\$0.00
Average Customer 1,269	\$1,971	\$1,949	\$23	1.2%	\$0	\$0.00	\$0.00	\$22.59	\$0.00
1,359	\$2,080	\$2,056	\$24	1.2%	\$0	\$0.00	\$0.00	\$24.19	\$0.00
1,447	\$2,186	\$2,160	\$26	1.2%	\$0	\$0.00	\$0.00	\$25.76	\$0.00
1,535	\$2,292	\$2,265	\$27	1.2%	\$0	\$0.00	\$0.00	\$27.34	\$0.00
1,622	\$2,396	\$2,367	\$29	1.2%	\$0	\$0.00	\$0.00	\$28.89	\$0.00
1,715	\$2,508	\$2,477	\$31	1.2%	\$0	\$0.00	\$0.00	\$30.54	\$0.00

C & I Medium:

Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference	% Chg	Base Rates	Difference due to:			EnergyEff
						GCR	DAC		
							Base DAC	ISR	
7,117	\$9,305	\$9,294	\$11	0.1%	\$0	\$0.00	\$0.00	\$10.68	\$0.00
7,884	\$10,230	\$10,218	\$12	0.1%	\$0	\$0.00	\$0.00	\$11.84	\$0.00
8,649	\$11,153	\$11,140	\$13	0.1%	\$0	\$0.00	\$0.00	\$12.98	\$0.00
9,416	\$12,078	\$12,063	\$14	0.1%	\$0	\$0.00	\$0.00	\$14.14	\$0.00
10,185	\$13,005	\$12,990	\$15	0.1%	\$0	\$0.00	\$0.00	\$15.29	\$0.00
Average Customer 10,950	\$13,928	\$13,912	\$16	0.1%	\$0	\$0.00	\$0.00	\$16.44	\$0.00
11,715	\$14,851	\$14,833	\$18	0.1%	\$0	\$0.00	\$0.00	\$17.60	\$0.00
12,484	\$15,778	\$15,760	\$19	0.1%	\$0	\$0.00	\$0.00	\$18.74	\$0.00
13,251	\$16,703	\$16,683	\$20	0.1%	\$0	\$0.00	\$0.00	\$19.90	\$0.00
14,016	\$17,626	\$17,605	\$21	0.1%	\$0	\$0.00	\$0.00	\$21.04	\$0.00
14,783	\$18,551	\$18,529	\$22	0.1%	\$0	\$0.00	\$0.00	\$22.20	\$0.00

National Grid
Rhode Island - Gas

**Bill Impact Analysis with Various Levels of Consumption:
ISR Rates**

C & I LLF Large:

Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference	% Chg	Base Rates	Difference due to:			EnergyEff
						GCR	DAC		
							Base DAC	ISR	
37,532	\$47,546	\$47,117	\$429	0.9%	\$0	\$0.00	\$0.00	\$429.16	\$0.00
41,573	\$52,510	\$52,035	\$475	0.9%	\$0	\$0.00	\$0.00	\$475.38	\$0.00
45,616	\$57,477	\$56,955	\$522	0.9%	\$0	\$0.00	\$0.00	\$521.61	\$0.00
49,660	\$62,444	\$61,877	\$568	0.9%	\$0	\$0.00	\$0.00	\$567.84	\$0.00
53,699	\$67,406	\$66,792	\$614	0.9%	\$0	\$0.00	\$0.00	\$614.03	\$0.00
Average Customer 57,742	\$72,373	\$71,713	\$660	0.9%	\$0	\$0.00	\$0.00	\$660.27	\$0.00
61,785	\$77,340	\$76,633	\$706	0.9%	\$0	\$0.00	\$0.00	\$706.47	\$0.00
65,824	\$82,302	\$81,549	\$753	0.9%	\$0	\$0.00	\$0.00	\$752.67	\$0.00
69,868	\$87,269	\$86,470	\$799	0.9%	\$0	\$0.00	\$0.00	\$798.91	\$0.00
73,911	\$92,236	\$91,391	\$845	0.9%	\$0	\$0.00	\$0.00	\$845.13	\$0.00
77,952	\$97,200	\$96,309	\$891	0.9%	\$0	\$0.00	\$0.00	\$891.34	\$0.00

C & I HLF Large:

Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference	% Chg	Base Rates	Difference due to:			EnergyEff
						GCR	DAC		
							Base DAC	ISR	
37,970	\$43,323	\$42,986	\$338	0.8%	\$0	\$0.00	\$0.00	\$337.92	\$0.00
42,061	\$47,836	\$47,462	\$374	0.8%	\$0	\$0.00	\$0.00	\$374.35	\$0.00
46,151	\$52,348	\$51,937	\$411	0.8%	\$0	\$0.00	\$0.00	\$410.75	\$0.00
50,240	\$56,858	\$56,411	\$447	0.8%	\$0	\$0.00	\$0.00	\$447.14	\$0.00
54,329	\$61,368	\$60,885	\$484	0.8%	\$0	\$0.00	\$0.00	\$483.50	\$0.00
Average Customer 58,418	\$65,879	\$65,359	\$520	0.8%	\$0	\$0.00	\$0.00	\$519.89	\$0.00
62,508	\$70,390	\$69,834	\$556	0.8%	\$0	\$0.00	\$0.00	\$556.32	\$0.00
66,596	\$74,900	\$74,307	\$593	0.8%	\$0	\$0.00	\$0.00	\$592.71	\$0.00
70,686	\$79,411	\$78,782	\$629	0.8%	\$0	\$0.00	\$0.00	\$629.14	\$0.00
74,775	\$83,922	\$83,256	\$665	0.8%	\$0	\$0.00	\$0.00	\$665.49	\$0.00
78,867	\$88,435	\$87,733	\$702	0.8%	\$0	\$0.00	\$0.00	\$701.91	\$0.00

National Grid
Rhode Island - Gas

**Bill Impact Analysis with Various Levels of Consumption:
ISR Rates**

C & I LLF Extra-Large:

Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference	% Chg	Base Rates	Difference due to:			EnergyEff
						GCR	DAC		
							Base DAC	ISR	
189,450	\$207,187	\$207,105	\$82	0.0%	\$0	\$0.00	\$0.00	\$82.14	\$0.00
209,855	\$229,115	\$229,024	\$91	0.0%	\$0	\$0.00	\$0.00	\$90.99	\$0.00
230,255	\$251,037	\$250,937	\$100	0.0%	\$0	\$0.00	\$0.00	\$99.83	\$0.00
250,655	\$272,960	\$272,851	\$109	0.0%	\$0	\$0.00	\$0.00	\$108.68	\$0.00
271,059	\$294,886	\$294,769	\$118	0.0%	\$0	\$0.00	\$0.00	\$117.52	\$0.00
Average Customer 291,462	\$316,812	\$316,685	\$126	0.0%	\$0	\$0.00	\$0.00	\$126.37	\$0.00
311,865	\$338,738	\$338,602	\$135	0.0%	\$0	\$0.00	\$0.00	\$135.21	\$0.00
332,269	\$360,664	\$360,520	\$144	0.0%	\$0	\$0.00	\$0.00	\$144.06	\$0.00
352,669	\$382,586	\$382,434	\$153	0.0%	\$0	\$0.00	\$0.00	\$152.91	\$0.00
373,069	\$404,509	\$404,347	\$162	0.0%	\$0	\$0.00	\$0.00	\$161.75	\$0.00
393,474	\$426,436	\$426,266	\$171	0.0%	\$0	\$0.00	\$0.00	\$170.60	\$0.00

C & I HLF Extra-Large:

Annual Consumption (Therms)	Proposed Rates	Current Rates	Difference	% Chg	Base Rates	Difference due to:			EnergyEff
						GCR	DAC		
							Base DAC	ISR	
184,661	\$198,331	\$197,666	\$665	0.3%	\$0	\$0.00	\$0.00	\$664.80	\$0.00
204,549	\$219,304	\$218,567	\$736	0.3%	\$0	\$0.00	\$0.00	\$736.38	\$0.00
224,435	\$240,274	\$239,466	\$808	0.3%	\$0	\$0.00	\$0.00	\$807.97	\$0.00
244,321	\$261,244	\$260,365	\$880	0.3%	\$0	\$0.00	\$0.00	\$879.57	\$0.00
264,206	\$282,214	\$281,263	\$951	0.3%	\$0	\$0.00	\$0.00	\$951.14	\$0.00
Average Customer 284,094	\$303,186	\$302,164	\$1,023	0.3%	\$0	\$0.00	\$0.00	\$1,022.74	\$0.00
303,982	\$324,159	\$323,064	\$1,094	0.3%	\$0	\$0.00	\$0.00	\$1,094.35	\$0.00
323,867	\$345,128	\$343,962	\$1,166	0.3%	\$0	\$0.00	\$0.00	\$1,165.92	\$0.00
343,753	\$366,099	\$364,861	\$1,238	0.3%	\$0	\$0.00	\$0.00	\$1,237.51	\$0.00
363,639	\$387,069	\$385,760	\$1,309	0.3%	\$0	\$0.00	\$0.00	\$1,309.09	\$0.00
383,527	\$408,041	\$406,661	\$1,381	0.3%	\$0	\$0.00	\$0.00	\$1,380.69	\$0.00

April 1, 2012

Revenue Requirement	Rate Class	Rate Base Allocator %	Allocation to Rate Class	Throughput dth	ISR Factor dth	ISR Factor therm	Uncollectible	ISR Factor therm
---------------------	------------	-----------------------	--------------------------	----------------	----------------	------------------	---------------	------------------

\$7,596,899

Res-NH	5.07%	\$385,202	556,875	\$0.6917	0.0692	2.46%	\$0.0709
Res-H	62.89%	\$4,778,026	17,489,866	\$0.2732	0.0273	2.46%	\$0.0280
Small	8.20%	\$622,946	2,471,503	\$0.2521	0.0252	2.46%	\$0.0258
Medium	12.50%	\$949,271	5,272,010	\$0.1801	0.0180	2.46%	\$0.0185
Large LL	5.88%	\$446,662	2,643,679	\$0.1690	0.0169	2.46%	\$0.0173
Large HL	1.87%	\$142,246	1,173,015	\$0.1213	0.0121	2.46%	\$0.0124
XL-LL	0.84%	\$63,918	890,996	\$0.0717	0.0072	2.46%	\$0.0074
XL-HL	2.75%	\$208,627	4,318,987	\$0.0483	0.0048	2.46%	\$0.0049

Firm and Transportation

Year	2012	2012	2012	2012	2012	2012	2012	2012	2012	2012	2012	2013	2013	2013
Mon	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar		
1012	52,923	43,928	35,764	31,804	28,744	28,529	35,143	43,872	55,016	70,793	70,025	60,333	556,875	
1247	1,705,118	1,081,596	473,491	422,847	362,367	345,116	409,966	1,048,113	2,257,226	3,484,287	3,376,822	2,522,916	17,489,866	
2107	252,624	122,097	47,631	42,215	34,539	49,263	80,487	159,563	309,768	489,386	476,924	407,005	2,471,503	
2237	221,483	139,756	36,185	79,349	38,735	74,952	106,391	230,515	405,412	673,489	679,448	514,566	3,200,280	
22EN	71,408	36,080	29,613	21,096	17,126	24,884	46,772	76,592	120,261	146,470	128,106	100,861	819,269	
2221	126,334	66,878	40,275	28,155	24,766	34,326	60,232	102,281	154,122	213,639	205,419	196,035	1,252,461	
2367	25,423	20,938	17,489	17,110	15,420	15,741	20,602	23,109	27,283	32,170	28,897	30,365	274,547	
23EN	45,806	39,741	40,916	32,135	37,197	28,359	51,562	52,931	47,832	88,742	70,169	70,479	605,868	
2321	26,960	21,216	20,721	15,688	17,270	13,116	21,982	22,606	21,462	42,513	33,938	35,129	292,601	
2496	15,311	13,959	13,868	14,111	12,049	11,516	15,605	14,920	15,832	17,311	19,880	16,528	180,889	
24EN	333,466	263,359	298,321	264,001	247,551	262,574	330,188	334,658	360,785	472,292	378,725	394,159	3,940,080	
2421	20,073	17,683	21,653	9,751	12,633	8,147	18,985	16,303	6,776	29,429	13,743	22,841	198,017	
3367	86,548	34,767	13,067	6,089	6,033	12,504	24,255	52,733	84,144	120,574	125,122	116,023	681,860	
33EN	89,135	37,078	22,600	13,962	12,200	20,776	53,992	101,546	159,988	180,721	161,286	149,449	1,002,733	
3321	139,313	42,530	25,467	0	0	0	14,871	70,092	129,470	208,185	173,847	155,313	959,087	
3496	2,551	1,202	0	435	0	151	77	2,796	5,519	10,150	9,737	7,269	39,886	
34EN	69,932	27,373	20,518	11,695	8,024	16,349	36,914	72,590	114,736	132,559	120,164	106,656	737,509	
3421	8,169	4,138	2,832	0	0	0	334	10,379	22,742	28,210	19,196	17,602	113,601	
70EN	0	0	0	0	0	0	0	0	0	0	0	0	0	

34,816,931

Dth
TOTALS

	2011	2011	2011	2011	2011	2011	2011	2011	2011	2011	2011	2012	2012	2012
	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar		
1,012 Res-NH	52,923	43,928	35,764	31,804	28,744	28,529	35,143	43,872	55,016	70,793	70,025	60,333	556,875	
1,247 Res-H	1,705,118	1,081,596	473,491	422,847	362,367	345,116	409,966	1,048,113	2,257,226	3,484,287	3,376,822	2,522,916	17,489,866	
2,107 Small	252,624	122,097	47,631	42,215	34,539	49,263	80,487	159,563	309,768	489,386	476,924	407,005	2,471,503	
2,237 Medium	221,483	139,756	36,185	79,349	38,735	74,952	106,391	230,515	405,412	673,489	679,448	514,566	3,200,280	
22EN Medium-FT1	71,408	36,080	29,613	21,096	17,126	24,884	46,772	76,592	120,261	146,470	128,106	100,861	819,269	
2,221 Medium-FT2	126,334	66,878	40,275	28,155	24,766	34,326	60,232	102,281	154,122	213,639	205,419	196,035	1,252,461	
2,367 Large-HL	25,423	20,938	17,489	17,110	15,420	15,741	20,602	23,109	27,283	32,170	28,897	30,365	274,547	
23EN Large HL-FT1	45,806	39,741	40,916	32,135	37,197	28,359	51,562	52,931	47,832	88,742	70,169	70,479	605,868	
2,321 Large HL-FT2	26,960	21,216	20,721	15,688	17,270	13,116	21,982	22,606	21,462	42,513	33,938	35,129	292,601	
2,496 XL-HL	15,311	13,959	13,868	14,111	12,049	11,516	15,605	14,920	15,832	17,311	19,880	16,528	180,889	
24EN XL-HL-FT1	333,466	263,359	298,321	264,001	247,551	262,574	330,188	334,658	360,785	472,292	378,725	394,159	3,940,080	
2,421 XL-HL-FT2	20,073	17,683	21,653	9,751	12,633	8,147	18,985	16,303	6,776	29,429	13,743	22,841	198,017	
3,367 Large-LL	86,548	34,767	13,067	6,089	6,033	12,504	24,255	52,733	84,144	120,574	125,122	116,023	681,860	
33EN Large-LL-FT1	89,135	37,078	22,600	13,962	12,200	20,776	53,992	101,546	159,988	180,721	161,286	149,449	1,002,733	
3,321 Large-LL-FT2	139,313	42,530	25,467	-	-	-	14,871	70,092	129,470	208,185	173,847	155,313	959,087	
3,496 XL-LL	2,551	1,202	-	435	-	151	77	2,796	5,519	10,150	9,737	7,269	39,886	
34EN XL-LL FT1	69,932	27,373	20,518	11,695	8,024	16,349	36,914	72,590	114,736	132,559	120,164	106,656	737,509	
3,421 XL-LL FT2	8,169	4,138	2,832	-	-	-	334	10,379	22,742	28,210	19,196	17,602	113,601	

70EN	NGV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
------	-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

34,816,931



Dth forecast	2012		2012		2012		2012		2012		2013		2013		
	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar			
Apr 12-Mar 13															
Res-NH	52,923	43,928	35,764	31,804	28,744	28,529	35,143	43,872	55,016	70,793	70,025	60,333	556,875		
Res-H	1,705,118	1,081,596	473,491	422,847	362,367	345,116	409,966	1,048,113	2,257,226	3,484,287	3,376,822	2,522,916	17,489,866		
Small	252,624	122,097	47,631	42,215	34,539	49,263	80,487	159,563	309,768	489,386	476,924	407,005	2,471,503		
Medium	419,224	242,713	106,073	128,600	80,627	134,162	213,395	409,388	679,795	1,033,598	1,012,973	811,462	5,272,010		
Large LL	314,997	114,375	61,134	20,052	18,233	33,280	93,118	224,371	373,602	509,479	460,255	420,784	2,643,679		
Large HL	98,188	81,895	79,126	64,933	69,886	57,216	94,147	98,647	96,577	163,425	133,004	135,973	1,173,015		
XL-LL	80,652	32,713	23,350	12,130	8,024	16,500	37,324	85,765	142,997	170,919	149,097	131,527	890,996		
XL-HL	368,850	295,000	333,842	287,863	272,233	282,236	364,779	365,882	383,393	519,032	412,349	433,528	4,318,987		
	3,292,576	2,014,317	1,080,440	874,655		946,302	2,325,558		4,298,374	6,440,918	6,091,449	4,923,527	34,816,931		

	System Total	Res-NH	Res-H	Small	Medium	Large LL	Large HL	XL-LL	XL-HL	
Distribution										
Demand	\$178,374,417	\$2,768,983	\$102,609,361	\$13,862,322	\$29,257,386	\$15,342,579	\$4,999,889	\$2,162,329	\$7,351,569	\$178,374,418
Customer	\$105,818,120	\$11,669,558	\$76,237,861	\$9,454,916	\$6,236,545	\$1,334,485	\$313,236	\$208,314	\$363,205	\$105,818,120
Commodity	\$817,961	\$12,967	\$408,499	\$53,641	\$119,583	\$60,228	\$23,460	\$27,366	\$112,217	\$817,961
Total Rate Base	\$285,010,498	\$14,451,508	\$179,255,721	\$23,370,879	\$35,613,514	\$16,757,292	\$5,336,585	\$2,398,009	\$7,826,991	\$285,010,500
		5.07%	62.89%	8.20%	12.50%	5.88%	1.87%	0.84%	2.75%	100.00%

Res-NH 5.07%
Res-H 62.89%
Small 8.20%
Medium 12.50%
Large LL 5.88%
Large HL 1.87%
XL-LL 0.84%
XL-HL 2.75%
100.00%

National Grid
Rhode Island

Current

per therm	ISR	DAC
	April 1, 2011	November 1, 2012
Res-NH	\$0.0135	\$0.0062
Res-H	\$0.0069	\$0.0062
Small	\$0.0080	\$0.0062
Medium	\$0.0052	\$0.0062
Large LL	\$0.0047	\$0.0062
Large HL	\$0.0035	\$0.0062
XL-LL	\$0.0019	\$0.0062
XL-HL	\$0.0013	\$0.0062

**DAC Components
(therm)**

	ISR	DAC	ISR
	April 1, 2011	November 1, 2011	April 1, 2012
Res-NH	\$0.0135	\$0.0062	\$0.0709
Res-H	\$0.0069	\$0.0062	\$0.0280
Small	\$0.0080	\$0.0062	\$0.0258
Medium	\$0.0052	\$0.0062	\$0.0185
Large LL	\$0.0047	\$0.0062	\$0.0173
Large HL	\$0.0035	\$0.0062	\$0.0124
XL-LL	\$0.0019	\$0.0062	\$0.0074
XL-HL	\$0.0013	\$0.0062	\$0.0049

**DAC Rates
(therm)**

	April 1, 2011	November 1, 2011	April 1, 2012
	Res-NH	\$0.0233	\$0.0197
Res-H	\$0.0167	\$0.0131	\$0.0342
Small	\$0.0178	\$0.0142	\$0.0320
Medium	\$0.0150	\$0.0114	\$0.0247
Large LL	\$0.0145	\$0.0109	\$0.0235
Large HL	\$0.0133	\$0.0097	\$0.0186
XL-LL	\$0.0117	\$0.0081	\$0.0136
XL-HL	\$0.0111	\$0.0075	\$0.0111

December 6, 2011

Downtown Providence Development RIDOT I-195 Contracts 14 & 15

Background

Over the past decade, RIDOT undertook a project to relocate I-195 in the City of Providence. Two of the remaining phases of the project (Contract 14 & 15) involve the demolition of the old highway, construction and reconstruction of the City streets within and around the area of the highway currently being demolished. City street patterns that were severed when the old highway was originally built will be restored and the area will be developed. On the west side of the Providence River (Contract 14) twelve new parcels will be created for development. On the east side (Contract 15) seven new parcels will be created. See Preliminary Master Plan for Proposed Development Parcels attached at the end of this document. Indications are that Construction work on these contracts will begin in 2012. There are three components to the gas work within the project.

Reimbursable Main Replacement

National Grid has received the 30% Design Plans for both Contract 14 and 15. Project Engineering & Design (PE&D) has reviewed these plans and has identified areas of encroachment/conflict with our gas facilities. If unresolved as the design plans develop, National Grid will be reimbursed by RIDOT for the relocation/replacement of gas facilities in these areas. In all, 2900 feet of existing main of various sizes and pressures will be replaced with 3145 feet of new main at an estimated (Level 1) cost of \$802,475.00.

Pro-active Main Replacement

National Grid's Main and Service Replacement group has reviewed the leak prone pipe within the project areas and has recommended the pipe to be replaced by National Grid as part of the Gas Infrastructure, Safety and Reliability (ISR) Plan. This will involve the replacement of 2550 feet of cast iron main, 2250 feet of which will be upgraded from low pressure to either 35# or 99#. In addition, 1565 feet of cast iron main will be abandoned and not replaced. The total estimated (Level 1) cost for this non-reimbursable work is \$418,100.00.

New Main to Serve New Parcels

RIDOT has requested that utility infrastructure needed to serve the new parcels be considered at this time and installed during construction/reconstruction of the roads. National Grid's Large Business group has developed estimated gas loads for all the new parcels. This was done by utilizing the parcel square footage from the Preliminary Master Plan for Proposed Development Parcels as well as building height data from zoning information provided by the State.

Utilizing the projected gas usage data, National Grid's Long Term Planning group has provided information regarding pipe size and pressure to replace existing

facilities as well as what is needed to serve the new parcels. As a guiding principle, low pressure will be replaced with 35# or 99# unless cost prohibitive or the low pressure is required to maintain the strength of the LP network. To serve the new parcels up to 4400 feet of new main of various sizes will need to be installed. The Level I cost estimate for this installation is \$692,300.00.

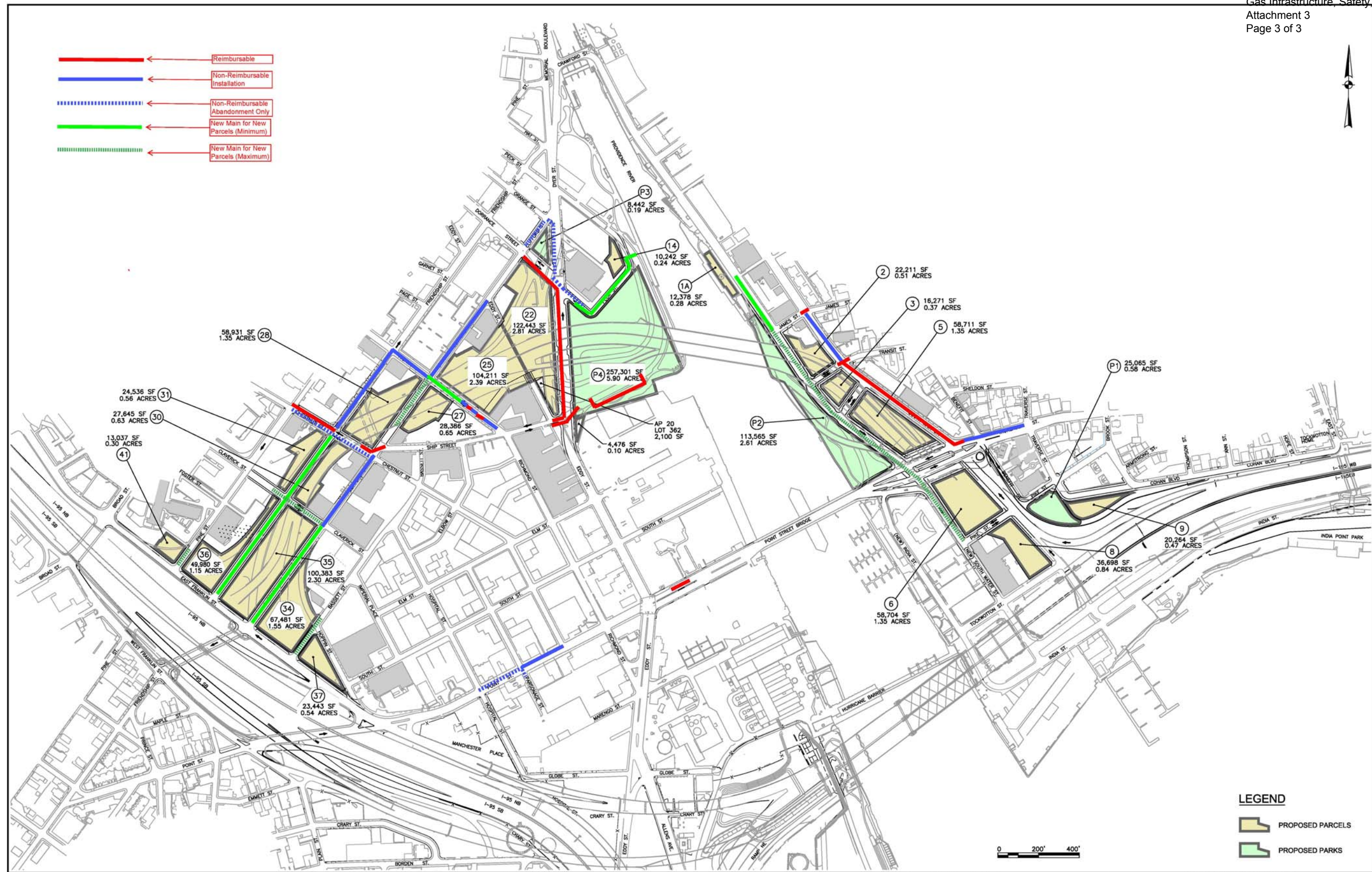
Traditionally, main extensions to serve new growth are funded through the Contribution in Aid of Construction (CIAC) paid by the specific developer/customer. In this situation RIDOT is requesting that the new main be installed prior to the identification of any specific developer/customer and has indicated that restoration requirements are likely to be onerous if the utilities are installed after RIDOT's construction is complete.

Summary

- Reimbursable main replacement – 3145 feet; \$802,475.00
- Proactive cast iron main elimination – 4115 feet; \$418,100.00
- New main to serve new parcels – 4400 feet; \$692,300.00

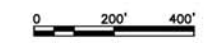


- ← Reimbursable
- ← Non-Reimbursable Installation
- ⋯⋯⋯ ← Non-Reimbursable Abandonment Only
- ← New Main for New Parcels (Minimum)
- ⋯⋯⋯ ← New Main for New Parcels (Maximum)



LEGEND

- ▭ PROPOSED PARCELS
- ▭ PROPOSED PARKS



Maguire Group Inc.
 Architects/Engineers/Planners
 225 Chapman Street
 Providence, Rhode Island 02905



RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION



REVISIONS			SCALE:
NO.	DATE	BY	

DESIGNED BY: DATE: 03-22-10
 CHECKED: SHEET 2 OF 2

IMPROVEMENTS TO INTERSTATE ROUTE 195
 PROVIDENCE RHODE ISLAND
PRELIMINARY MASTER PLAN FOR PROPOSED DEVELOPMENT PARCELS

V:\1-195\hwy\Special Plans\ROW\Prop Dev Parcels-Master Plan.DWG, 6/1/2010 11:11:08 AM