

March 27, 2015

BY HAND DELIVERY AND ELECTRONIC MAIL

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

RE: Docket 4540 - National Grid's Proposed FY 2016 Gas Infrastructure, Safety, and Reliability Plan
Responses to Record Requests

Dear Ms. Massaro:

On behalf of National Grid,¹ I have enclosed ten (10) copies of the Company's responses to the record requests issued at the Rhode Island Public Utilities Commission's evidentiary hearing on March 24, 2015.

In this transmittal, the Company is providing responses to Record Request Nos. 1, 3, 7 and 8. The Company will provide responses to the remaining Record Requests (Nos. 2, 4, 5, 6 and 9) shortly.

Thank you for your attention to this matter. If you have any questions, please contact me at 781-907-2121.

Very truly yours,



Raquel J. Webster

Enclosures

cc: Docket 4539 Service List
Steve Scialabba, Division
Leo Wold, Esq.
Greg Booth

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

Certificate of Service

I hereby certify that a copy of the cover letter and any materials accompanying this certificate was electronically transmitted to the individuals listed below.

Copies of this filing are being hand delivered to the Rhode Island Public Utilities Commission and the Rhode Island Division of Public Utilities and Carriers.



Joanne M. Scanlon

1/8/2015

Date

Docket No. 4540 - National Grid's FY 2016 Gas Infrastructure, Safety and Reliability (ISR) Plan - Service List 1/8/15

Name/Address	E-mail Distribution	Phone
Raquel J. Webster, Esq. National Grid. 280 Melrose St. Providence, RI 02907	raquel.webster@nationalgrid.com	
	celia.obrien@nationalgrid.com	
	Joanne.scanlon@nationalgrid.com	
David Iseler Melissa Little National Grid	David.Iseler@nationalgrid.com	
	Melissa.Little@nationalgrid.com	
	Suhila.NouriNutile@nationalgrid.com	
Leo Wold, Esq. Dept. of Attorney General 150 South Main St. Providence, RI 02903	Lwold@riag.ri.gov	401-222-2424
	Steve.scialabba@dpuc.ri.gov	
	James.lanni@dpuc.ri.gov	
	John.spirito@dpuc.ri.gov	
	Don.ledversis@dpuc.ri.gov	
	dmacrae@riag.ri.gov	
	jmunoz@riag.ri.gov	
David Effron Berkshire Consulting 12 Pond Path North Hampton, NH 03862-2243	Djeffron@aol.com	603-964-6526
File an original & nine (9) copies w/: Luly E. Massaro, Commission Clerk Public Utilities Commission 89 Jefferson Blvd. Warwick RI 02888	Luly.massaro@puc.ri.gov	401-780-2107
	Todd.bianco@puc.ri.gov	
	Patricia.Lucarelli@puc.ri.gov	
	Sharon.ColbyCamara@puc.ri.gov	
Christopher Kearns, OER	Christopher.Kearns@energy.ri.gov	
	Danny.Musher@energy.ri.gov	

Record Request No. 1

Request:

What is the cost of the \$3 million gas pilot expansion program on a residential customer?

Response:

The revenue requirement associated with the \$3 million gas pilot expansion program in the FY 2016 ISR capital investment plan is approximately \$250,000, which would equate to a rate factor of \$0.0009 per therm for a Residential heating customer. A residential heating customer using 846 therms annually will pay approximately \$0.79 per year for the gas pilot expansion program, which equates to 0.1 percent of the customer's annual bill of \$1,250.

Record Request No. 3

Request:

What was the trend for the last few years for lost and unaccounted for gas?

Response:

Please see Attachment RR-3 for the updated calculations performed for lost and unaccounted for gas that were provided in the Company's response to PUC 1-18 for the period 2005 to 2014, as reported in the Company's Gas Distribution Annual Reports. The spreadsheet also includes the reduction of unaccounted for gas by gas emission due to leaks using Environmental Protection Agency STAR program standards, as allowed by the Pipeline and Hazardous Materials Safety Administration (PHMSA).

SPREADSHEET FOR CALCULATING DOT REPORT "NET" UFG
WITH SYSTEM LEAKAGE ADJUSTMENT

YEAR: 2005-2014 (Using "Annual" Emissions Rates Listed In The EPA STAR Report - in MCF/mile)

ENTER ALL INVENTORY VALUES IN RED FIELDS WITH DATA FROM THE DOT REPORT
ENTER SENDOUT & GROSS UFG FIELDS IN RED FROM 6/30 UFG DATA SUPPLIED
THE SPREADSHEET CALCULATES EVERYTHING ELSE

MAINS		SERVICES	
Cast Iron	239	Copper	0.3
Protected Steel	3	Protected Steel	0.2
Unprotected Steel	110	Unprotected Steel	1.7
Plastic	12	Plastic	0.01

AVG SRVC LENGTHS 68 ft 68 ft 68 ft 68 ft 65 ft 66 ft 66.09 ft 66.3 ft

MATERIAL	RI-2007			RI-2008			RI-2009			RI-2010			RI-2011			RI-2012			RI-2013			RI-2014			
	NUMBER	MILES	LEAKAGE	NUMBER	MILES	LEAKAGE	NUMBER	MILES	LEAKAGE	NUMBER	MILES	LEAKAGE	NUMBER	MILES	LEAKAGE	NUMBER	MILES	LEAKAGE	NUMBER	MILES	LEAKAGE	NUMBER	MILES	LEAKAGE	
MAIN - CI	902		215578	896,330	214224	304	885,244	211573	316	878	209778	426	875	209018	884	859	205267	778	831	198626	73	806	192621	333	
MAIN - Prot Steel	553		1689	578,477	1735	431	550,88	1652	64	601	1801	912	585	1764	978	597	1790	814	586	1788	744	595	1785	738	
MAIN - UP Steel*	697		76670	681,373	74951	03	690,707	75977	77	609	66995	39	597	65666	01	950	60551	92	524	57652	43	499	54921	24	
MAIN - Plastic	941		11292	967,73	11612	76	1001,768	12021	216	1044	12531	492	1103	13239	816	1168	14014	092	1227	14725	896	1287	15446	856	
SERV - Cu	180	2,316	136	178	53.4		177	53.4		171	51.3		209	62.7		208	62.4		207	62.1		205	61.9		
SERV - Prot Steel	11408	148	7916	29,368	152	12066	2413	2	2252	11206	2241	2	2084	10286	2057	10150	2030	9989	1007	8					
SERV - UP Steel*	68020	875	2422	1487	91	1173	65564	64035	108859	5	61310	104227	56259	95640	3	53654	91211	8	51572	87672	4	50397	85674	9	
SERV - Plastic*	106500	1370	381	437	038	060	100144	1091	44	112313	1123	13	115718	1157	18	123076	1230	76	127643	1276	43	131002	1310	02	
Total	186108		5498	306884	417540		187785	3129	413513	188405	3132	398784	189966	3163	388711	191690	3174	378231	192931	3179	363967	193615	3188	353840	
TOTAL LEAKAGE in MCF																									
TOTAL LEAKAGE in DTH <i>(DTH = MCF x 1.03)</i>			316,091		430,067				425,918			410,747			400,372			387,518			374,783			364,455	
TOTAL LEAKAGE in MDT			316		430			426		411		400		388		375		364			364			364	
SENDOUT in MDT			37,507		38,972			39,133		37,493		39,986		34,286		39,493		43,381			43,381			43,381	
GROSS UFG in MDT			988		1,311			1,397		1,094		1,486		1,222		1,721		1,937			1,937			1,937	
Gross UFG (% of Sendout)			2.63%		3.36%			3.57%		2.92%		3.72%		3.56%		4.36%		4.47%			4.47%			4.47%	
LEAKAGE (as % of Sendout)			Not Adjusted		1.10%			1.09%		1.10%		1.00%		1.13%		0.95%		0.84%			0.84%			0.84%	
NET UFG			2.63%		2.26%			2.48%		1.82%		2.72%		2.43%		3.41%		3.62%			3.62%			3.62%	
NET UFG (Round to 1 Dec Pl)			2.63%		2.26%			2.5%		1.8%		2.7%		2.4%		3.4%		3.6%			3.6%			3.6%	
NET UFG in MDT			672		881			971		683		1,086		834		1,346		1,573			1,573			1,573	
NET UFG in DT			671,909		880,933			971,082		683,253		1,085,944		834,457		1,346,217		1,572,545			1,572,545			1,572,545	
NET UFG in MMBTU			671,909		880,933			971,082		683,253		1,085,944		834,457		1,346,217		1,572,545			1,572,545			1,572,545	

* UP Steel Svcs for
Upstate include CI
* UP Steel Main for
RI includes Ductile Iron & Other
* UP Steel Svcs for
RI include CI & DI Svcs
* Plastic Svcs for
RI include Other Svcs

*NOTE
- Different EPA Leakage rates were in place in 2007
2006 UFG = 2.83%
2005 UFG = 1.84%

Record Request No. 7

Request:

What was the number of gas services that were dug up?

Response:

Two gas services were dug-up. Please see the Company's response to Record Request No. 8 for additional information regarding these two incidents.

Record Request No. 8

Request:

What amount of damage has been caused by gas services being dug up?

Response:

In March 2014, the Company's primary main and service contractor damaged two gas services. In each instance, once the damage occurred, the contractor immediately made the situation safe and notified Company personnel of the situation. The Company dispatched a first responder technician to the site to assess the area to ensure that any gas escaping from the damaged facility did not migrate into any adjacent buildings. At the same time, a Company crew responded to the site to either replace or cut-off the damaged service.

The Company formally suspended its mains and services contractor from performing any additional work on the Company's gas system based on the determination that the contractor lacked an adequate process and system of internal control to effectively perform the work and properly utilize various gas facility records, which the Company supplied to the contractors to help them locate gas services and follow certain precautions when excavating to prevent damage to the mains and services. Prior to allowing the contractor to resume work activities, the Company required the contractor to:

- Update and document its gas facility locating process to ensure that proper due diligence was being exercised during the field verification of existing gas services and while excavating in the vicinity of existing gas facilities; and
- Re-train all contractor personnel who were required to perform work activities involving the field verification of existing gas facilities and performing tasks that may be impacted by the existing gas facility locating processes.

After an approximately two-week period, the contractor was allowed to resume work activities once they were able to demonstrate to the Company that they had completed the above-referenced requirements and re-training.