

February 20, 2019

VIA HAND DELIVERY AND ELECTRONIC MAIL

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

RE: Docket 4916 - National Grid's Proposed FY 2020 Gas Infrastructure, Safety, and Reliability Plan
Responses to PUC Data Requests – Set 2

Dear Ms. Massaro:

On behalf of National Grid,¹ I enclose ten (10) copies of the Company's responses to the second set of data requests issued by the Rhode Island Public Utilities Commission in the above-referenced docket.

Thank you for your attention to this filing. If you have any questions concerning this transmittal, please contact me at 781-907-2153 or Rob Humm at 401-784-7415.

Very truly yours,



Celia B. O'Brien

Enclosures

cc: Docket 4916 Service List
Leo Wold, Esq.
Al Mancini, Division
John Bell, Division
Rod Walker, Division

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.

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



Joanne M. Scanlon

February 20, 2019
Date

**Docket No. 4916 - National Grid's FY 2020 Gas Infrastructure, Safety and Reliability (ISR)
Plan - Service List 2/5/2019**

Name/Address	E-mail Distribution	Phone
Robert Humm, Esq. National Grid 280 Melrose St. Providence, RI 02907	robert.humm@nationalgrid.com ;	401-784-7415
	celia.obrien@nationalgrid.com ;	
	Joanne.scanlon@nationalgrid.com ;	
John Currie William Richer Melissa Little Ann Little Theresa Burns Michael Pini	John.currie@nationalgrid.com ;	
	William.richer@nationalgrid.com ;	
	Melissa.Little@nationalgrid.com ;	
	Ann.leary@nationalgrid.com ;	
	Theresa.Burns@nationalgrid.com ;	
	Michael.Pini@nationalgrid.com ;	
Leo Wold, Esq. Division of Public Utilities and Carriers	Leo.Wold@dpuc.ri.gov ;	401-780-2177
	dmacrae@riag.ri.gov ;	
	MFolcarelli@riag.ri.gov ;	
	Al.mancini@dpuc.ri.gov ;	
	John.bell@dpuc.ri.gov ;	
	John.spirito@dpuc.ri.gov ;	
	Jonathan.Schrag@dpuc.ri.gov ;	
	Ronald.gerwatowski@dpuc.ri.gov ;	
Kevin.Lynch@dpuc.ri.gov ;		
Rod Walter, CEO/President Rod Walker & Associates	Rwalker@RWalkerConsultancy.com ;	706-244-0894

Office of Energy Resources (OER) Andrew Marcaccio, Esq. Dept. of Administration Division of Legal Services One Capitol Hill, 4 th Floor Providence, RI 02908	Andrew.marcaccio@doa.ri.gov ;	
Christopher Kearns, OER Carrie Gill Nick Ucci	Christopher.Kearns@energy.ri.gov ;	
File an original & nine (9) copies w/: Luly E. Massaro, Commission Clerk Margaret Hogan, Commission Counsel Public Utilities Commission 89 Jefferson Blvd. Warwick RI 02888	Carrie.Gill@energy.ri.gov ;	
	Nicholas.Ucci@energy.ri.gov ;	
	Luly.massaro@puc.ri.gov ;	401-780-2107
	Margaret.hogan@puc.ri.gov ;	
	Cynthia.WilsonFrias@puc.ri.gov ;	
	Sharon.ColbyCamara@puc.ri.gov ;	
	Todd.bianco@puc.ri.gov ;	
	Alan.nault@puc.ri.gov ;	

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4916
In Re: Gas Infrastructure, Safety, and Reliability Plan FY2020
Responses to the Commission's Second Set of Data Requests
Issued on January 7, 2019

PUC 2-1

Request:

Referring to Bates page 53 in Grid's 12/20/18 filing, please indicate the amounts included by year in FY2020 through FY2024 in the Gas ISR spending budget allocated for work to be done on the Aquidneck Island gas system. If no amounts are included for Aquidneck Island in the FY2020 through FY2024 Gas ISR budgets, please explain why.

Response:

Please refer to Attachment PUC 2-1 for the amounts included by year in FY2020 through FY2024 in the Gas Infrastructure, Safety, and Reliability Plan spending budget allocated for work to be performed on the Aquidneck Island gas system.

Investment Categories	Project Name	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
NON-DISCRETIONARY						
Public Works	Public Works projects are not conducive to specific long-term project identification. The Company has visibility to FY 2020 projects. While the Company expects to have Aquidneck investment from FY 2021 to FY 2024, the specific amounts and projects will not be known until we get closer to the start of the respective fiscal years.	849	-	-	-	-
	Annandale Terrace, 600 ft. Gibson Park Rd - Newport - Relay approx. 430 ft of 4-in BS LP mains with 440 ft of 6-in PE LP main in Annandale Te from Annandale Rd to #18 Annandale Ter. This is the north end relay. - Relay approx. 157 ft of 2-in BS LP main with 160 ft of 6-in PE LP main in Annandale Te from Annandale Rd to #21 Annandale Ter. This is the south end relay. - Total main installation: 600 ft. - Total main abandonment: 587 ft - Tie over/relay 7 services - Main connections/cut-offs: 2 Work schedule ahead of paving.	95	TBD	TBD	TBD	TBD
	Michael Dr. - Portsmouth - Relay approx. 310 ft of 1.25-in BS 55# main and 5 ft of 1.25 PE 55# main with 315 ft of 2-in PE 55# main in Michael Te from Dexter Te to #22 Michael Te and abandon same limit. - Total main installation: 315 ft. - Total main abandonment: 315 ft - Tie over/relay 2 services - Main connections/cut-offs: 1 Work schedule ahead of paving.	46	TBD	TBD	TBD	TBD
	Gibson Park Pl., Newport - Due to Newport Road Reconstruction, FY19/20 PWNONREIM recommends: - Relay approx. 266 ft of 2-in CI and 34 ft of 2-in BS LP mains with 300 ft of 6-in PE LP main in Gibson Park Rd from Bliss Rd to end of road. - Total main installation: 300 ft. - Total main abandonment: 300 ft - Tie over/relay 5 services - Main connections/cut-offs: 2 Work schedule ahead of paving.	108	TBD	TBD	TBD	TBD
	Goat Island - Newport - Install approx. 1000 ft of 8" steel on the side of the bridge and abandon (2) 4" steel crossing the bridge	600	TBD	TBD	TBD	TBD
Mandated Programs	Mandated Programs are largely reactive in nature. With the exception of Meter Changes, the majority of program investment will be determined in year based on items such as asset condition and leaks.	115	131	140	215	216
	Meter Changes - includes the purchase, test processing and delivery of gas meters to support the company's mandated meter test replacement program and continued customer meter service operations. Regulatory requirements require removal from the field and testing of all residential gas meters that are 15 years old and all commercial/industrial meters that are 10 years old, and associated remediation/retirement program of all such gas meters.	115	131	140	215	216
Damage / Failure (Reactive)		-	-	-	-	-
Special Projects		-	-	-	-	-
NON-DISCRETIONARY TOTAL		964	131	140	215	216
DISCRETIONARY						
Proactive Main Replacement		2,128	-	-	-	-
	Aquidneck Ave., Middletown - 3290 feet of 6 inch 10# wrapped steel (DMDT0003) with aprx 3290 feet of 8 inch 10# PE in Aquidneck Av from #1225 to #906 -75 feet of 2 inch 10# wrapped steel (DMDT0003) with aprx 75 feet of 4 inch 10# PE in the intersection of Aquidneck Ave. and Reardon Dr. -Abandon aprx 85 feet of 1 inch 10# PB and 20 feet of 1.25 inch 10# bare steel servicing #1171. Relay service and tie into the proposed 6 inch 10# PE being installed in Aquidneck Ave. -Abandon aprx 70 feet of 2 inch 10# bare steel at #1036 -Tie over/relay aprx 20 services	985	TBD	TBD	TBD	TBD

Investment Categories	Project Name	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
	182-194 Connelly Hwy, Newport - -Abandon aprx 215 feet of 2 inch 10# bare steel servicing #182, #188, and #194 Connell Hwy. Relay services as necessary and transfer to the existing parallel 4 inch 10# wrapped steel main in Connell Hwy within the same range. -Tie over/relay aprx 3 services -Work scheduled due to leak score	33	TBD	TBD	TBD	TBD
	Broadway, Newport -955 feet of 8 inch LP cast iron and 110 feet of 4 inch LP cast iron in parallel between #319-#321 with aprx 955 feet of 12 inch LP PE in Broadway from Malbone Rd. to Fowler Ave. -430 feet of 4 inch LP cast iron and 145 feet of 4 inch LP bare steel with aprx 575 feet of 8 inch LP PE in Summer St. from Broadway to Malbone Rd. -10 feet of 4 inch LP bare steel with aprx 10 feet of 6 inch LP PE in the intersection of Arnold Ave. and Summer St. -60 feet of 4 inch LP cast iron with aprx 60 feet of 6 inch LP PE in the intersection of Gibbs Ave. and Broadway -20 feet of 4 inch LP cast iron with aprx 20 feet of 6 inch LP PE in the intersection of Arnold Ave. and Broadway -Abandon aprx 50 feet of 4 inch LP cast iron in the intersection of Fowler Ave. and Broadway -Tie over/relay aprx 17 services -Work scheduled due to leak score	698	TBD	TBD	TBD	TBD
	Marchant St., Newport - -580 feet of 2 inch LP wrapped steel (DNPR0057) with aprx 580 feet of 6 inch LP PE in Lucas Ave. from Thames St. to Marchant St. -595 feet of 4 inch LP cast iron with aprx 595 feet of 6 inch LP PE in Marchant St. from Connection St. to W Narragansett Ave. -Tie over/relay aprx 26 services -Work scheduled due to leak score	412	TBD	TBD	TBD	TBD
Proactive Main Replacement - Large Diameter LPCI Program						
Proactive Main Replacement - Atwells Avenue						
Service Replacement - Proactive						
Reliability		400	2,720	800	800	-
	LNG - Old Mill Lane Permanent Portable Site - Engineering, site development and construction costs associated with meeting the Island's peak shaving requirements	200	250			
	System Automation - Carol/Ocean - install traffic boxes (Remote Terminal Units – RTUs) to provide temperature, pressure and flow data back to Gas Control. These RTUs will also have the capability of giving Gas Control remote operating capabilities. Installation of these boxes involves civil work regarding concrete footings and sense line trenching, as well as internal labor associated with gas tubing.	100	TBD	TBD	TBD	TBD
	System Automation - Wolcott - install traffic boxes (Remote Terminal Units – RTUs) to provide temperature, pressure and flow data back to Gas Control. These RTUs will also have the capability of giving Gas Control remote operating capabilities. Installation of these boxes involves civil work regarding concrete footings and sense line trenching, as well as internal labor associated with gas tubing.	100	TBD	TBD	TBD	TBD
	- Pressure Regulator Replacement project – Newport - Wellington @ Thames 35PSIG	-	1,235			
	Pressure Regulator Replacement project – Newport - Wellington @ Thames LP	-	1,235			
	Pressure Regulator Replacement project – Middletown - Walcott Ave @ St Georges - LP			800		
	Pressure Regulator Replacement project – Newport - Boulevard @ Miantonomi	-	-	-	800	
	Valve Installation/Replacement	-	-	-	-	-
SUBTOTAL DISCRETIONARY (Without Gas Expansion)		2,528	2,720	800	800	-
Southern RI Gas Expansion Project		-	-	-	-	-
DISCRETIONARY TOTAL (With Gas Expansion)		3,492	2,851	940	1,015	216

TBD - In general this is indicative of program funding for FY 2021 to 2023 where specific projects have not yet been identified.

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4916
In Re: Gas Infrastructure, Safety, and Reliability Plan FY2020
Responses to the Commission's Second Set of Data Requests
Issued on January 7, 2019

PUC 2-2

Request:

If the FY2020 through FY2024 Gas ISR spending budgets do include Aquidneck Island projects, please provide an itemized schedule including project description and dollar amounts.

Response:

Please refer to the Company's response to PUC 2-1.

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4916
In Re: Gas Infrastructure, Safety, and Reliability Plan FY2020
Responses to the Commission's Second Set of Data Requests
Issued on January 7, 2019

PUC 2-3

Request:

Referring to Bates page 14 in Grid's 12/20/18 filing, the company indicates that "...capacity at the Exeter LNG facility will be exceeded by calendar year 2019." Will the Southern RI project schedule as proposed alleviate this condition in calendar year 2019? If yes, please explain how the Southern RI project will alleviate this condition in CY2019. If no, please explain Grid's contingency plan to prevent 3,750 customers from experiencing less than minimum pressures.

Response:

The Southern Rhode Island project schedule, as proposed, will alleviate the need to exceed the capacity of the Exeter LNG facility in calendar year 2019 and for the winter of 2019/20. With the first phase of the project completed in 2019, the expected LNG requirement at Exeter, based on the current gas growth forecast for the 2019/20 winter, will not exceed the maximum vaporization level of 750 dth/hr.

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4916
In Re: Gas Infrastructure, Safety, and Reliability Plan FY2020
Responses to the Commission's Second Set of Data Requests
Issued on January 7, 2019

PUC 2-4

Request:

Referring to Bates page 16 in Grid's 12/20/18 filing, the company indicates that the contract award is expected to take place in March 2019. When will the company provide the details of the award to the Division and Commission?

Response:

The Company will provide an updated estimate, reflecting the results of the main installation bid award, by March 22, 2019.

PUC 2-5

Request:

Referring to Bates page 116 in Grid's 12/20/18 filing, the report indicates that average main age in Rhode Island was 44.4 years in 2017.

- a. What is the average age in Grid's Massachusetts and New York service territories?
- b. If, known what is the average age in all of Massachusetts and New York?
- c. Is there an industry standard guideline/target for age?
- d. Does Grid have a target average age it would like to achieve in Rhode Island?

Response:

- a. The average age of mains in National Grid's Massachusetts and New York service territories is as follows:

Massachusetts

Boston Gas Company - 52.0 years

Essex Gas Company - 37.2 years

Colonial Gas Company (Cape) - 28.4 years

Colonial Gas Company (Lowell) - 36.6 years

New York

The Brooklyn Union Gas Company (KEDNY) - 50.0 years

KeySpan Gas East Corporation (KEDLI) - 39.7 years

Niagara Mohawk Power Corporation - 39.1 years

- b. The average age of mains in National Grid territories of Massachusetts is 43.7 years and New York is 41.5 years.
- c. The Company is not aware of any industry standard guideline; age will be a factor of pipe material and regional operating environment.
- d. No, the Company does not have a target average age of mains in Rhode Island. Average age of mains is one element of a high-level trend analysis the Company performs that is considered when developing asset replacement strategy.

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4916
In Re: Gas Infrastructure, Safety, and Reliability Plan FY2020
Responses to the Commission's Second Set of Data Requests
Issued on January 7, 2019

PUC 2-6

Request:

Referring to Bates page 160 in Grid's 12/20/18 filing, please identify the acronyms BGC, CLC and NE in the legend.

Response:

The acronyms are defined as follows:

BGC – Boston Gas Company
CLC – Colonial Gas Company
NE – New England