



November 29, 2018

BY E-FILE Kathleen.Mignanelli@puc.ri.gov
and BY HAND DELIVERY

Kathy Mignanelli, Coordinator
Energy Facility Siting Board
89 Jefferson Boulevard
Warwick, RI 02888

Re: The Narragansett Electric Company d/b/a National Grid and National Grid LNG,
LLC – 2019 Master Construction Plans

Dear Kathy:

Enclosed please find for filing with the Energy Facility Siting Board: (1) one original and nine copies of the 2019 Master Construction Plan of The Narragansett Electric Company d/b/a National Grid; and (2) one original and nine copies of the 2019 Master Construction Plan of National Grid LNG, LLC. Please time-stamp the extra copy of this letter and return with the courier.

Please give me a call if you have any questions.

Regards,

A handwritten signature in black ink that reads "Bess Gorman". The signature is written in a cursive, flowing style.

Bess Beikoussis Gorman
Assistant General Counsel

Enclosures

cc: Ms. Patti Lucarelli (*by email* Patricia.Lucarelli@puc.ri.gov)
Celia O'Brien, Esq. (*by email*)
Ms. Joanne Scanlon (*by email*)

2019 MASTER CONSTRUCTION PLAN

The Narragansett Electric Company d/b/a National Grid

Introduction

In 1992, the Rhode Island General Assembly amended § 42-98-8(A)(4) to require an applicant for a license for a major energy facility to include in its application information to demonstrate the need for the proposed facility “under the statewide master construction plan submitted annually.” In amendments to its Rules of Practice and Procedure (“EFSB Rules”) dated December 2, 1993, the Energy Facility Siting Board (the “EFSB”) adopted a new § 1.35 which requires the filing of an annual statewide master construction plan within ninety (90) days of the adoption of the amended regulations and on every subsequent December 1. The plan must contain “a brief and concise description of any major energy facilities which the filing party proposes to construct in the succeeding two years.”¹ Several of the new transmission tap lines and transmission line relocations listed herein will be permitted under Section 1.6(c) of the EFSB Rules and should not be considered major energy facilities. This is the Master Construction Plan for Calendar Year 2019 for The Narragansett Electric Company d/b/a National Grid (“National Grid”).

Aquidneck Island Reliability Project (Docket SB-2016-01)

EFSB Order issued August 18, 2017. Construction of this project commenced in 2018. The project components include:

- Construct a new Jepson Substation on the west side of Jepson Lane in Middletown;
- Modify the Dexter Substation in Portsmouth to reconfigure to 115 kV operation;
- Rebuild and upgrade 4.5 miles of the 69 kV 61/62 Lines to 115 kV between Dexter Substation and the new Jepson Substation;
- Relocate the existing 69 kV 63 Line to accommodate the construction of the new Jepson Substation; and
- Temporarily relocate portions of the 115 kV M13 and L14 Lines in the vicinity of the Dexter Substation in Portsmouth to accommodate modifications to the substation.

Clear River Energy Center (“CREC”) Transmission Interconnection and Network Upgrades

The Burrillville Interconnection Project and CREC-related network upgrades described below are required to support the interconnection of the proposed CREC into the New England electric grid. Construction of these projects is contingent on the CREC Project. Current plans are for construction to commence in 2019.

¹ EFSB Rules of Practice and Procedure § 1.35 (Effective Date: April 11, 1996).

- Burrillville Interconnection Project (Docket SB 2017-01) —
 - Construct a new approximately 6.8 mile 345 kV transmission line (3052 Line) from the proposed CREC to the Sherman Road Switching Station in Burrillville.
 - Reconstruct approximately 1.6 miles of the 345 kV 341 Line within the existing ROW to accommodate the 3052 Line.
 - Relocate approximately 1.6 miles of the 345 kV 347 Line within the existing ROW to accommodate the 3052 Line.
 - Modify the Sherman Road Switching Station to accommodate the 3052 Line.
 - Relocate the last span of the 345 kV 328 Line into the Sherman Road Switching Station to accommodate the 3052 Line.

- CREC-related Network Upgrades —
 - Reconductor approximately 0.1 miles of the 115 kV T-172N West Farnum Tap Line in North Smithfield.
 - Reconductor approximately 0.1 miles of the 115 kV S-171N West Farnum Tap Line in North Smithfield.
 - Uprate approximately 1.0 mile of the 115 kV K-189 Line from Kent County Substation to Drumrock Substation in Warwick.
 - Reconductor approximately 1.0 mile of the 115 kV G-185N Line from Kent County Substation to Drumrock Substation in Warwick.
 - Reconductor approximately 3.6 miles of the 115 kV H-17 Line from Farnum Tap in North Smithfield to Riverside Substation in Woonsocket.
 - Reconductor approximately 10.0 miles of the 115 kV R-9 Line from Riverside Substation in Woonsocket to Valley Substation in Cumberland.

Other Projects

Alteration of Existing Transmission Lines

- Reconstruct approximately 0.8 miles of the 115 kV E-183 Line from East Providence (vicinity of Phillipsdale tap) to Providence (existing Structure #208). This project will relocate this line segment overhead along the “South Bridge Alignment.” The EFSB issued an Order on January 17, 2018, pursuant to a Settlement Agreement which required the Company to explore the feasibility of an underground project or review alternatives to the current E-183 configuration. Certain interveners appealed the Order to the Rhode Island Supreme Court, which subsequently stayed the Order on September 7, 2018 (SB-2003-01). Construction is expected to commence in 2019 or later, depending on resolution of the appeal, funding and scheduling issues.

- Relocate 115 kV T1, T2 and T3 overhead Lines between Franklin Square and South Street substations in Providence into an underground configuration (less than 2,000 feet). This project was approved by the EFSB on June 28, 2016 in Docket SB-2016-02. Construction of this project commenced in 2016 and is expected to be completed by the end of 2019.

- Realign the Q-143, R-144, S-171N and T-172N transmission line connections to the existing Woonsocket Substation. The realignments will allow the Q-143 and R-144 lines to be connected to a new termination structure at the Woonsocket Substation. This project was approved by the EFSB on March 27, 2018 in Docket SB-2018-01. Construction of this project commenced in 2018, and transmission line work is expected to be completed by spring 2019. The Company anticipates completing the remaining substation work by late 2020.
- Relocate the Q-143 and R-144 Providence River underground transmission lines between the Franklin Square Substation on the west of the river to a manhole at Dollar Street on the east side of the river. This project was approved by the EFSB on March 27, 2018 in Docket SB-2017-02. Construction of this project commenced in 2018 and is expected to be completed by June 2019.
- Reconductor approximately two miles of the Q-143 and R-144 115 kV underground transmission lines from the Admiral Street Cable Terminal to Manhole #31 on Dollar Street in Providence, Rhode Island. Permitting is expected to commence this winter and construction is anticipated to start in 2020.
- Reconductor approximately 0.6 miles of the J16S Line between the Staples and Highland Park Substations in Cumberland. Permitting is expected to commence this winter and construction is anticipated to start in 2019.

Construction of New Transmission Lines

- Construct a new 115 kV tap line from the 115 kV T-172S Line into the new New London Avenue Substation to be constructed in Warwick. The tap line will be several hundred feet in length. This project was approved by the EFSB on November 16, 2015 in Docket SB-2015-05, and construction of the tap line was recently completed. The tap line will be energized in 2019 once construction of the substation is complete.
- Construct a new 115 kV tap line from the L190 Line into the new Wickford Junction Substation to be constructed in North Kingstown. The tap will be less than 1,000 feet in length. Permitting is expected to commence this winter, with construction scheduled to begin in 2019.
- Construct a new 115 kV tap line from the E-183 Line into a new substation to be constructed in East Providence. The tap will be less than 1,000 feet in length. Permitting is expected to commence in 2019, with construction scheduled to begin in 2020.
- Construct a new 115 kV tap line from the X3 and T7 lines into the new Dunnell Park Substation to be constructed in the City of Pawtucket. Permitting is expected to begin this winter, with construction scheduled to start in mid-2019.

Construction of New Natural Gas Distribution Lines

- Construct approximately 5.1 miles of natural gas distribution main from West Warwick south of the Cranston Take Station to a district regulator station at the end of the new pipeline in East Greenwich. The main will consist of 20-inch steel designed for a Maximum Allowable Operating Pressure (MAOP) of 200 psig and constructed to be In-Line Inspected (ILI). Permitting is expected to commence in November 2018 and construction is currently slated to begin in spring 2019 with construction being conducted in three phases and completed in 2022 or 2023.

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2019 MASTER CONSTRUCTION PLAN

National Grid LNG, LLC

Introduction

In amendments to its rules and regulations in December, 1993, the Energy Facility Siting Board (the “EFSB”) adopted a new § 1.35 which requires the filing of an annual statewide master construction plan for proposed major energy facilities. The plan must be filed within ninety (90) days of the adoption of the amended regulations and on every subsequent December 1. The plan must contain “a brief and concise description of any major energy facilities which the filing party proposes to construct in the succeeding two years.” This is the Master Construction Plan for Calendar Year 2019 for National Grid LNG, LLC.

Fields Point Liquefaction Project

National Grid LNG, LLC (“NGLNG”) owns and operates a FERC-jurisdictional LNG storage facility located in Providence, Rhode Island that is used by its three firm storage customers for peak-shaving. NGLNG has filed an application with the Federal Energy Regulatory Commission (“FERC”) under Section 7(c) of the Natural Gas Act for authorization to add liquefaction capability to its existing liquefied natural gas (“LNG”) storage facility (called the “Fields Point Liquefaction Project” or “Project”). On June 22, 2015, NGLNG filed its request for approval to use FERC’s pre-filing procedures. On July 2, 2015, FERC approved NGLNG’s request to begin the Pre-Filing review process. NGLNG’s Section 7(c) Certificate Application was accepted by FERC in April 2016.¹

The storage facility is located in an industrialized area and has been used for LNG storage since 1974. The existing LNG storage facility does not have liquefaction capability and

¹ The Project is subject to exclusive FERC jurisdiction and, pursuant to R.I. Gen. Laws § 42-98-15, is not subject to EFSB jurisdiction.

only receives LNG by truck. The stored LNG is then vaporized for redelivery to the customers via pipeline, although there is the capability to redeliver to the customers' trucks. The storage facility is physically connected to the distribution system of The Narragansett Electric Company d/b/a National Grid downstream of one of its city-gate interconnections with the Algonquin Gas Transmission System. The distribution system of The Narragansett Electric Company is used for redelivery by displacement to the Algonquin Gas Transmission system.

The Project will not modify or replace the existing LNG storage tank. NGLNG proposes to install one natural gas liquefaction train. The liquefaction system will employ an electric driven, closed loop, nitrogen refrigeration cycle process to convert natural gas, supplied by the existing gas utility infrastructure, into liquid before storing it in the existing LNG storage tank. FERC issued the Certificate approving the Project on October 17, 2018, and NGLNG intends to commence construction in early 2019.

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