

## **2015 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 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.

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.” 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 2015 for The Narragansett Electric Company d/b/a National Grid (“National Grid”).

#### **Interstate Reliability Project**

##### **Alteration of Existing Transmission Lines**

- Reconstruct and reconductor approximately 9.2 miles of the existing 328 345 kV transmission line from West Farnum Substation in North Smithfield to the Sherman Road Switching Station in Burrillville, to increase the capacity of the line. Construction of this project commenced in 2014.
- Relocate short segments of the 333, 3361, and 347 345 kV transmission lines in the vicinity of the Sherman Road Switching Station. Construction of this project commenced in 2014.

- Replace certain structures of the B-23 115 kV transmission line to accommodate construction of the 341 and 328 345 kV transmission lines. Construction of this project commenced in 2014.

#### Construction of New Transmission Lines

- Construct a new 4.8 mile 345 kV transmission line (the 366 Line) from the Massachusetts/Rhode Island border in North Smithfield to the West Farnum Substation in North Smithfield in an existing right-of-way. Construction of this project commenced in 2014.
- Construct a new 17.7 mile 345 kV transmission line (the 341 Line) from the West Farnum Substation to Rhode Island/Connecticut border in Burrillville in an existing right-of-way. Construction of this project commenced in 2014.

#### Aquidneck Island Project

- Rebuild and upgrade 4.4 miles of the 61/62 69 kV transmission lines to 115 kV between Dexter Substation and a new Jepson Substation. Construction of this project is expected to commence in 2016.

#### Other Projects

##### Alteration of Existing Transmission Lines

- Reconstruct 1.2 miles of the E-183 115 kV transmission line from East Providence (vicinity of Phillipsdale tap) to Providence (Franklin Square Substation). This project will convert this line segment from overhead line to underground cable. Construction of this project is expected to commence in 2016 or later, depending on funding and scheduling issues.
- Reconstructor 5.3 miles of the G-185S 115 kV transmission line from Kent County Substation to Davisville Tap point. Construction of this project is expected to commence in 2015.
- Reconstructor 2.2 miles of the J16 115 kV transmission line between Riverside Substation and the new Highland Park Substation. Construction of this project is expected to commence in 2015.
- Reconstructor 4.2 miles of the V-148N 115kV transmission line between Washington and Woonsocket substations. Construction of this project is expected to commence in 2016.
- Relocate T1, T2 and T3 overhead 115kV transmission lines between Franklin Square and South Street substations in Providence into an underground configuration (less than 2,000 feet.) Construction of this project is expected to commence in 2015.

### Construction of New Transmission Lines

- Construct new 115 kV tap line from the existing 1870S 115 kV transmission line into the new Chase Hill Substation to be constructed in Hopkinton. Construction of this project is expected to commence in 2015.
- Construct a new 115 kV tap line from the existing T-172S 115 kV transmission line into the new New London Avenue Substation to be constructed in Warwick. The tap line will be several hundred feet in length. Construction of this project is expected to commence in 2016.
- Construct a second tap from the J-188 115 kV transmission line to a proposed new transformer at the Kilvert Street #87 Substation in Warwick. The proposed tap line will be less than 100 feet in length. Construction of this project is expected to commence in 2015.
- Construct new 115kV tap lines from the existing T7 and X3 transmission lines into the new Southeast Substation to be constructed in Pawtucket. Remove existing indoor substation at Pawtucket substation. Construction expected to commence in 2016.

November 25, 2014