

TRANSMISSION FACILITIES PROPOSED PLAN APPLICATION

1. Applicant Northeast Utilities Date November 30, 2012.

2. Type of Facility 115-kV line In-Service Date December, 2016

3. Transmission Line and/or Substations

a. From Madbury, Madbury, NH To Portsmouth, Portsmouth, NH
(Terminal - Name - Location) (Terminal - Name - Location)

b. Third Terminal or tap (if any) N/A
(Name - Location)

c. Distance - Overhead 12 miles. Underground 1 miles. Design Voltage 115 KV

O/H Conductor Size 1272 ACSS Initial Operation 115 KV
U/G Conductor Size 5000 KCMIL Initial Operation 115 KV

d. Proposed Relaying:
Type of relaying- Install new primary line protection
Install new secondary line protection
Install breaker failure protection and reclosing for all new circuit breakers

Special protective relaying schemes N/A

4. Transformer Rating N/A MVA HV N/A KV LV N/A KV Tertiary N/A KV

Parameters in percent on a 100 MVA Base

Resistance N/A R Reactance N/A -X

5. Attach simplified one line diagram(s) of transmission and/or substations with breaker configuration, indicating existing and proposed additions or changes on construction.

Comments: **Build a new 13 mile 115-kV transmission line between the Madbury and Portsmouth Substations. Install one 115-kV circuit breaker at both the Madbury and Portsmouth Substations.**

6. Reliability Studies

Short Circuit:	Completed	<input checked="" type="checkbox"/>	Planned	<input type="checkbox"/>	Not Needed	<input type="checkbox"/>	Explanation Attached	<input type="checkbox"/>
Load Flow:	Completed	<input checked="" type="checkbox"/>	Planned	<input type="checkbox"/>	Not Needed	<input type="checkbox"/>	Explanation Attached	<input type="checkbox"/>
Stability:	Completed	<input checked="" type="checkbox"/>	Planned	<input type="checkbox"/>	Not Needed	<input type="checkbox"/>	Explanation Attached	<input type="checkbox"/>
Other _____	Completed	<input type="checkbox"/>	Planned	<input type="checkbox"/>	Not Needed	<input type="checkbox"/>	Explanation Attached	<input type="checkbox"/>

7. a. If this Application is associated with a Generation Proposed Plan Application, identify the Generator Proposed Plan Application(s) and the Governance Participant(s) responsible for submitting it. N/A

b. Has the Generation Proposed Plan Application(s) been submitted? Yes No
If "No", when will the Application(s) be submitted?

Figure 1 Madbury to Portsmouth 115-kV Line

