ISO new england

memo

To: Participants Committee

From: Wilma D. Lawrence, Secretary – Reliability Committee

Date: August 20, 2008

Subject: **ACTIONS OF THE RELIABILITY COMMITTEE**

This memo is notification to the NEPOOL Participants Committee (PC) of the actions taken by the NEPOOL Reliability Committee (RC) at its August 18 and 20, 2008 meetings. All sectors except the Alternative Resources Sector had a quorum at the August 18 meeting, and all sectors had a quorum at the August 20 meeting. The following actions were taken:

(August 18, Agenda Item 2.2) Towantic Energy Generation – Proposed Plan Applications TEL-08-G01, TEL-08-T01, NU-08-T73, NU-08-T74 and NU-08-T75

It was moved and seconded to recommend to ISO New England Inc. that no significant adverse effect will result from Towantic Energy, LLC's ("TEL") Generation Proposed Plan Application TEL-08-G01 and Transmission Facilities Proposed Plan Application TEL-08-T01 for the construction and interconnection of two combustion turbine generators and one steam turbine generator in Oxford, Connecticut ("the Towantic Energy Project"), as detailed in Ms. Cindy Fitzgerald's August 1, 2008 transmittal to Mr. Donald Gates, Chairman, NEPOOL Reliability Committee, together with the supporting Northeast Utilities System Companies' ("NU") Transmission Facilities Proposed Plan Applications NU-08-T73, NU-08-T74, and NU-08-T75, as detailed in Mr. Robert J. Russo's August 12, 2008 transmittal to Mr. Donald Gates, Chairman, NEPOOL Reliability Committee, all with a

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proposed in-service date as indicated below. These plans will not have a significant adverse effect on the reliability or operating characteristics of the Northeast Utilities System Companies' ("NU") transmission facilities, the transmission facilities of another Transmission Owner, or the system of a Market Participant, subject to the Towantic Energy Project including the following components:

1. Two gas turbines and one steam turbine, having the ratings indicated in the table below, are to be constructed (TEL-08-G01). Proposed in-service date: October 2010.

Generator Data	Gas Turbine	Steam Turbine
Number of Generators	2	1
Generator Ratings	234 MVA, 18 kV, 0.85 PF	234 MVA, 18 kV, 0.85 PF
Greatest Unit Gross Output at Ambient Temperature of 50° F or above	169.0 MW	182.0 MW
Greatest Unit Net Output at Ambient Temperature of 50° F or above	162.8 MW	182.0 MW
Greatest Unit Gross Output at Ambient Temperature of 0° F or above	185.1 MW	180.9 MW
Greatest Unit Net Output at Ambient Temperature of 0° F or above	179.7 MW	180.9 MW
Overexcited Reactive Power Limit at Maximum Unit Rating (MW) of 50° F. or above	105 MVARs	110 MVARs
Underexcited Reactive Power Limit at Maximum Unit Rating (MW) at 50° F. or above	60 MVARs	60 MVARs
Overexcited Reactive Power Limit at Maximum Unit Rating (MW) at 0°F. or above	115 MVARs	110 MVARs
Underexcited Reactive Power Limit at Maximum Unit Rating (MW) at 0° F. or above	65 MVARs	60 MVARs
Station Service Load at Maximum Unit Rating (MW) at 50° F. or above	6.2 MW, 3.9 MVAR	0
Station Service Load at Maximum Unit Rating (MW) at 0° F. or above	5.39 MW, 3.34 MVAR	0

2. Each of the three generators is to be interconnected to 115 kV feeders through its own three-phase 150/200/250 MVA 18/115 kV generator step-up (GSU) transformer, wye-connected at 115 kV and delta-connected at 18 kV (TEL-08-T01). Proposed in-service date: October 2010.

3. Each GSU is to be interconnected to a proposed 115 kV switching station, which shall sectionalize the #1575 Bunker Hill-Baldwin-Beacon Falls Line, the #1585 Bunker Hill-South Naugatuck Line, and #1990 Frost Bridge-Baldwin-Stevenson Line, separating each line into north (N) and south (S) segments (NU-08-T73). Proposed in-service date: October 2010.

4. The 115 kV #1585N Line is to be rebuilt between the new Towantic Switching Station and Bunker Hill with 556 kcmil ACSR conductor (NU-08-T74). Proposed in-service date: October 2010.
5. A 2.5% series reactor with a by-pass switch is to be installed on the #1990S Line at its switching station terminal (NU-08-T75) based on the study of conditions with the New England East West Solution Project implemented. Proposed in-service date: December 2013.

The motion to recommend a determination of no significant adverse effects was voted and passed, based on a show of hands, with no opposition and one abstention in the Generation Sector recorded.