

April 27, 2012

Stephen J. Rourke  
Vice President, System Planning  
ISO New England  
One Sullivan Road  
Holyoke, MA 01041

Dear Mr. Rourke:

**Re: ISO-NE letter dated June 02, 2011, Subject: TCA Application NEP-08-TCA-04 through NEP-08-TCA-13 for the Merrimack Valley /North Shore Upgrade Area Project, dated January 15, 2009**

In response to your June 02 2011 letter concerning questions on National Grid's TCA Application NEP-08-TCA-04 through NEP-08-TCA-13 for the "Merrimack Valley/North Shore Upgrade Area Project", New England Power, (NEP), a National Grid Company, hereby submits the attached responses to your questions.

Please note that questions 1, 2 and 7 of the June 02, 2011 letter are submitted. Questions 3, 4, 5, and 6 of the June 02, 2011 letter are related to NEP-08-TCA-08; Upgrade of the S-145 and T-146 115kV UG cables between Salem Harbor Substation and Railyard Substation. As discussed with ISO-NE, this TCA will be withdrawn via separate correspondence.

If you have any questions, I can be reached by telephone at 781.907.2462 or by e-mail at [james.ryan@us.ngrid.com](mailto:james.ryan@us.ngrid.com).

Sincerely



James W. Ryan  
Lead Senior Engineer,  
Transmission Planning

**Responses to ISO-NE MV/NS TCA ISO-NE June 02, 2011 Questions 1,2 & 7  
regarding Merrimack Valley/North Shore Projects**

**1. Define what is meant by “Expenses not accounted for elsewhere’ in the definition of “Other” costs on page 12 of the March 13, 2009 Additional Information Request responses submitted by NEP.**

Question #1 response

In NEP-08-TCA-04, 06, 07, 09, 10, 11, 13 NEP requested total Pool Transmission Funds (PTF) costs of \$178,660,598; the category “Other” amounts for those TCA are 3.6% of the total PTF costs requested.

At the time of submittal of the above TCA’s the Categories were: Material, Engineering, Labor and Other. Examples of charges in the “Other” categories include items such as title research, charges for wireless phone for communications between crews, printing services, transportation costs, emergent contracting services, station power requirements, lighting needs, and other needs as required.

Since the time of the NEP TCA submittal, ISO-NE revised Planning Procedure 4 with new cost categories. NEP submittal and presentation to [PAC dated Nov. 16 2009](#) of the Project Cost Estimate Update Sheet reflects the new cost categories. Therefore the cost category of “Other” is no longer a category reported by NEP on TCA’s.

**2. Overtime pay was defined under “Labor” for a cost category. Were there overtime charges associated with this project and were they a result of state or local siting or was this an NEP decision?**

Question #2 response:

NEP conducted a review of the overtime charges associated with the submitted TCA’s: NEP-08-TCA-04, 06, 07, 09, 10, 11 & 13. In NEP-08-TCA-04, 06, 07, 09, 10, 11&13 NEP requested total Pool Transmission Funds (PTF) costs of \$178,660,598. The total overtime costs for the TCA’s was \$5,693,210. This amount represents approximately 3% of the total PTF costs requested. Of that \$5.69M approximately 40%, (\$2.28M) is directly related to outage restrictions.

Of the remaining overtime NEP authorized, 15% (\$840K) was expended at the East & West Methuen substations installing a new breaker and replacing terminal equipment – no siting was required for this work.

The remaining funds were expended on the 115kV line from the King Street substation to West Amesbury substation work – no overtime could specifically be related to state or local siting.

**7. At the December 16, 2010 Planning Advisory Committee meeting, it was mentioned on slide 21 of the Greater Boston Study Needs Assessment/ Solution Study Update presentation that the 115kV breakers at Wakefield Junction are over-dutied. Explain why these breakers are over-dutied. What short circuit rating do these breakers have and what rating is the substation built to? Would reducing the number of autotransformers at Wakefield Junction resolve this issue without causing any criteria violations?**

Question #7 response:

At the more recent June 30, 2011 Planning Advisory Committee meeting, ISO-NE noted that 115kV breakers at Wakefield Junction are no longer overdutied, please see the [Greater Boston Study Needs Assessment/ Solution Study Status Update](#) presentation slide 14, Short Circuit Assessment Results, The 115kV breakers at Wakefield Junction substation have a short circuit rating of 65kA. Given that ISO-NE no longer identifies the breakers as overdutied, NEP and the Greater Boston Working Group will continue to monitor and investigate solutions to overdutied breakers as part of the Solution Assessment.