



56 Prospect Street  
Hartford, CT 06103

Steve J. Allen  
Eversource, ISO-NE Coordination  
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August 24, 2022

Ms. Emily Laine  
Chair, NEPOOL Reliability Committee  
ISO New England, Inc.  
One Sullivan Road  
Holyoke, MA 01040-2841

Dear Ms. Laine,

In accordance with Schedule 12C of the ISO New England ("ISO-NE") Transmission, Markets & Services Tariff ("ISO-NE Tariff"), Eversource Energy Service Company ("Eversource") hereby submits the attached Transmission Cost Allocation ("TCA") application(s) reporting cost support information associated with the construction, retirement, or modification to facilities rated 69 kV and above that qualify as regional Pool Transmission Facilities ("PTF") for the following Eversource project:

**ES-22-TCA-25                      NH Asset Condition and Wood Structure Replacements - 385 345-kV  
Line (Deerfield Substation – Maine border)**

Eversource is requesting that ISO-NE submit this TCA to the NEPOOL Reliability Committee for review, in accordance with ISO-NE Planning Procedure No. 4 ("PP-4").

If you have any questions, I can be reached via the information listed above.

Sincerely,

*Steven J. Allen*

Steven J. Allen

cc: M. Drzewianowski

**Attachment B**  
**TCA Application Form**

1. Applicant: Application #: ES-22-TCA-25 Date: Aug-22

Contact Name: Steven J. Allen

Company Name: Eversource Energy

Address 1: 56 Prospect Street

Address 2: \_\_\_\_\_

City, State, Zip: Hartford, CT 06103 RSP Project ID # or  
Asset Condition ID # TBD

Contact Phone #: 860-728-4536 Is Project related to CIP-14

Email Address: [steven.allen@eversource.com](mailto:steven.allen@eversource.com) Yes  No

2. Project Description: In Service Date: Dec-23

a. **High Level Project Details:**

<b>Project Name</b> ( If no formal name, then Substation Upgrade, Line Upgrade, etc. are acceptable):	<b>NH Asset Condition and Wood Structure Replacements - 385 345-kV Line (Deerfield Substation - Maine border)</b>		
<b>Project Location</b> (State only):	<b>State:</b> <u>NH</u>	<b>County:</b>	<u>Rockingham, Strafford</u>

b. Summary of PTF-related work for Project:

Replace 17 wood structures with steel structures on the 385 345-kV Line (Deerfield substation - Maine border) to mitigate deficiencies such as woodpecker damage, split pole tops, cracks, insect damage, and decay.

Final project cost details will be known following closeout of all project work orders.

c. Summary of Non-PTF-related work for Project:

3. Was a transmission Proposed Plan Application required for this work? Yes  No  PPA Number: n/a

4. Has a transmission Proposed Plan Application been approved? Yes  No  N/A  Approval Date: n/a

If yes, attach a copy and reference Proposed Plan Application # and approval date. (Please check only one)

**Need For Project:**

5. Need Based On (Check all Categories that apply):

- a. Reliability
- b. Economic
- c. Service to new load
- d. New generator interconnection

Generator Proposed Plan Application Number \_\_\_\_\_

Generator Proposed Plan Application Date \_\_\_\_\_

(Attach copy of cover letter & Generator Proposed Plan Application)

- e. Public Policy Transmission Upgrade (PPTU)
- f. Market Efficiency Transmission Upgrade (METU)
- g. Asset Condition
- h. Other (specify in line 6)

6. Provide a narrative description of the need for this Project.  
(Include available documentation relative to the need for this Project.)

Replacing these structures remediates the potential for structure failures due to asset condition vulnerabilities. To ensure the continued operability of this line segment, the identified structures in this line section need to be replaced.

**Cost of Project:**

7. Total Project Cost (\$M) equals PTF + Non-PTF + all other Project Costs:	<u>\$5.035</u>
8. Total Proposed PTF Costs	
a. Total Proposed PTF Cost of this Project (\$M):	<u>\$5.035</u>
b. Requested Pool-Supported PTF Costs associated with this Project (\$M):	<u>\$5.035</u>
c. Breakdown of Requested Pool-Supported PTF Cost associated with this Project (\$M): (Consistent with Table 1 and Appendix D of this Procedure)	
Material	<u>\$1.098</u>
Labor	<u>\$2.728</u>
ROW	<u>\$0.000</u>
Engineering/Permitting/Indirects	<u>\$0.413</u>
Escalation	<u>\$0.000</u>
AFUDC (or equivalent)	<u>\$0.104</u>
Contingency	<u>\$0.692</u>
d. Generator Supported PTF Costs* (\$M):	<u>\$0.000</u>

If the costs in 8.b. plus 8.d. do not equal the total proposed PTF cost (8.a) explain and indicate who is responsible for the remaining costs.

9. Total Proposed Non-PTF Cost of this Project (\$M):	<u>\$0.000</u>
10. Proposed PTF Costs (\$M) introduced as a result of local, state or other regulatory/legislative requirements, including costs identified pursuant to Section 1.6.3 of this PP-4.	<u>\$0.000</u>
a. Description of Proposed PTF Cost introduced as a result of local, state or other regulatory/legislative requirements as defined in question 8 above.	
11. All other Project Costs not captured in PTF Costs (8) or Non-PTF Costs (9) (\$M) associated with this Project:	<u>\$0.000</u>

12. Total PTF Cost based on: (check one)

Actual Costs

**OR**

Estimated Costs\*

13. Valuation Year(s) of dollar amounts submitted above: 2022

14. If applicable, explain how the cost of common facilities were allocated between PTF and Non-PTF.

15. Does this Project result in a change of existing Non-PTF facilities to PTF?      Yes       No

16. Describe the major transmission alternatives, and their costs consistent with the breakdown provided in item 7 of this Application, that were considered. Provided an explanation why the preferred alternative was selected.  
(Include available documentation relative to the major transmission alternatives analysis and selection.)

**Alternative:**

- Do nothing but for the reasons stated in 6 above is not acceptable.
- Replace only deteriorated components on structures. This does not fall into Eversource's "best-practice" to take advantage of access efforts, engineering, permitting, outreach and mobilization and is not an economical alternative.

**Preferred:** Field inspections and evidence from previous asset condition projects have indicated a significant amount of degradation and decreased load carrying capacity of wood 345-kV structures (many of the poles show signs of decay, woodpecker damage, rot and deterioration). Replacing the structures resolves multiple structural/hardware issues and supports safe and reliable operation of the transmission line.

17. Has state and local siting been completed? If yes, explain the siting process and any provisions that were made during siting, provide docket or siting reference numbers. If no, then explain when siting is expected to be completed and any provisions that have been agreed to.

No unusual siting or permitting was required for this project.

\* Pool-Supported PTF costs were determined pursuant to Schedule 11 of Section II of the Tariff.



NH AC and Wood Structure Replacements 385 345-kV Line Project Correlation Table  
(Deerfield substation - Maine border)

<u>TCA Item</u>	<u>RSP:</u> Project ID #	<u>Study:</u> Reliability Issues Requiring <u>Action</u>	<u>PPA No.</u>	<u>PPA Application:</u> Preferred Solution <u>Description</u>	<u>PAC/RC Meeting:</u> Presentation <u>Reference</u>	<u>TCA Application (\$Ms):</u>	
						<u>PTF Estimate</u>	<u>Non-PTF Estimate</u>
ES-22-TCA-25	TBD	n/a	n/a	Replacement of 17 wood structures with steel structures including hardware and insulators.	Per PAC Presentation 06/15/2022	\$ 5.035	
				SUBTOTAL		\$ 5.035	