

October 28, 2021

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-21-TCA-55 NH 115-kV Line Laminated Wood Structure Replacement
Program Phase 1 – X116 Line (Scobie Pond substation – Power
Street substation)**

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,

David J. Burnham

David J. Burnham

cc: M. Drzewianowski

Attachment B
TCA Application Form

1. Applicant:	Application #:	ES-21-TCA-55	Date: Oct-21
Contact Name:	David J. Burnham		
Company Name:	Eversource Energy Service Company		
Address 1:	56 Prospect Street		
Address 2:			
City, State, Zip:	RSP Project ID # or		
Contact Phone #:	Asset Condition ID #	290	
Email Address:	Is Project related to CIP-14		
	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

2. Project Description: In Service Date: Jun-22

a. **High Level Project Details:**

Project Name (If no formal name, then Substation Upgrade, Line Upgrade, etc. are acceptable):

**115-kV Line Laminated Wood Structure Replacement
Program Phase 1 - X116 Line (Scobie Pond substation - Power
Street substation)**

Project Location (State only):

State:

NH

County:

Rockingham, Hillsborough

b. Summary of PTF-related work for Project:

Replace 131 laminated wood structures on the X116 115-kV Line with weathering steel pole structures to mitigate deficiencies such as: woodpecker and insect damage, rot, cracks and deteriorated steel mechanical connections.

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 <input type="checkbox"/>	No <input checked="" type="checkbox"/>	PPA Number: n/a
4. Has a transmission Proposed Plan Application been approved?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
If yes, attach a copy and reference Proposed Plan Application # and approval date.		(Please check only one) Approval Date: _____	

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>\$24.646</u>
8. Total Proposed PTF Costs	
a. Total Proposed PTF Cost of this Project (\$M):	<u>\$24.646</u>
b. Requested Pool-Supported PTF Costs associated with this Project (\$M):	<u>\$24.646</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>\$4.129</u>
Labor	<u>\$15.032</u>
ROW	<u>\$0.000</u>
Engineering/Permitting/Indirects	<u>\$3.716</u>
Escalation	<u>\$0.000</u>
AFUDC (or equivalent)	<u>\$0.595</u>
Contingency	<u>\$1.174</u>
d. Generator Supported PTF Costs* (\$M):	<u>\$0.000</u>
<p>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.</p> <div style="border: 1px solid black; height: 40px; width: 100%;"></div>	
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.	<div style="border: 1px solid black; height: 40px; width: 100%;"></div>
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: 2021

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/Repair only deteriorated components on structures: This alternative does not comprehensively mitigate aged structures/components, does not fall into Eversource's "best-practice" 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 laminated wood 115-kV structures (many of the poles show signs of decay, woodpecker and insect 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.

PROJECT COST ESTIMATE & SCHEDULE SHEET

Transmission Owner: Public Service Company of New Hampshire

RSP Project #: 290

Project Name: NH 115-kV Laminated Wood Structure Replacement Project - X116 Line (Scobie Pond substation - Power Street substation)

Date: Oct-21

1. Project Scope Summary

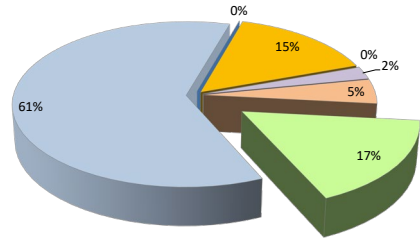
This project will replace 131 Laminated wood structures with weathering steel pole structures on the X116 115-kV Line (Scobie Pond substation - Power Street substation) as the result of aerial and foot patrols and the potential integrity issues found during recent laminated wood structure replacement projects. The structures are being replaced to mitigate deficiencies such as: woodpecker and insect damage, rot, cracks and deteriorated steel mechanics.

2. Project Cost Summary

(\$M)

2.1. Project Cost Summary			
Cost Category	PTF	Non-PTF	Total
Material	\$ 4.129	\$ -	\$ 4.129
Labor & Equipment	\$ 15.032	\$ -	\$ 15.032
Right of Way	\$ -	\$ -	\$ -
Engineering/Permitting /Indirects	\$ 3.716	\$ -	\$ 3.716
Escalation	\$ -	\$ -	\$ -
AFUDC	\$ 0.595	\$ -	\$ 0.595
Contingency	\$ 1.174	\$ -	\$ 1.174
Total Project Cost	\$ 24.646	\$ -	\$ 24.646

- Material
- Labor & Equipment
- Right of Way
- Engineering/Permitting /Indirects
- Escalation
- AFUDC
- Contingency



2.2 Detailed Cost Summary By Project Element									
	Material	Labor & Equipment	Right of Way	Engineering/ Permitting/ Indirects	Escalation	AFUDC	Contingency	Total	PTF Amount
NH 115-kV Laminated Wood Structure Replacement Project - X116 Line (Scobie Pond substation - Power Street substation)	\$ 4.129	\$ 15.032	\$ -	\$ 3.716	\$ -	\$ 0.595	\$ 1.174	\$ 24.646	\$ 24.646
Total	\$ 4.129	\$ 15.032	\$ -	\$ 3.716	\$ -	\$ 0.595	\$ 1.174	\$ 24.646	\$ 24.646

3. Project Milestone Schedule

Description	Start	Complete	2016		2017				2018				2019				2020				2021				2022					
			Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4
			Siting & Permitting																											
Approval and Permits	08/16/2021	06/01/2022	<div style="display: flex; justify-content: space-between; width: 100%;"> → </div>																											
			Engineering																											
Engineering and Design	07/19/2021	10/15/2021	<div style="display: flex; justify-content: space-between; width: 100%;"> → </div>																											
			Land																											
Material	07/01/2021	06/01/2022	<div style="display: flex; justify-content: space-between; width: 100%;"> → </div>																											
			Construction																											
Construction	11/15/2021	06/01/2022	<div style="display: flex; justify-content: space-between; width: 100%;"> → </div>																											

X116 115-kV Line Laminated Wood Structure Replacement Project Correlation Table
(Scobie Pond substation - Power Street substation)

<u>TCA Item</u>	<u>RSP:</u> Project ID #	<u>Study:</u> Reliability Issues Requiring <u>Action</u>	<u>PPA Application:</u>		<u>PAC/RC Meeting:</u> Presentation Reference	<u>TCA Application (\$Ms):</u>	
			<u>PPA No.</u>	<u>Preferred Solution Description</u>		<u>PTF Estimate</u>	<u>Non-PTF Estimate</u>
ES-21-TCA-55	290	n/a	n/a	Replace 131 laminated wood 115-kV structures with light-duty steel pole structures, including hardware, insulators, and guys and install lightning arrestors and counter poise.	Per PAC Presentation 03/17/2021	\$ 24.646	
				SUBTOTAL		\$ 24.646	\$ -