

June 15, 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-17                      NH Asset Condition and Wood Structure Replacements 379 345-kV  
Line (Fitzwilliam, Substation - Vermont Electric Power Company  
(VELCO) 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,

*Steven J. Allen*

Steven J. Allen

cc: M. Drzewianowski

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

1. Applicant: Application #: ES-22-TCA-17 Date: Jun-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 Yes  No

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

a. **High Level Project Details:**

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

**NH Asset Condition and Wood Structure Replacements - 379  
345-kV Line (Fitzwilliam Substation - Vermont Electric  
Company (VELCO) substation)**

**Project Location** (State only):

State:

NH

County:

Cheshire

b. Summary of PTF-related work for Project:

Replace 25 structures (17 wood and 8 laminate wood system (LWS) structures) with steel pole structures on the 379 345-kV Line (Fitzwilliam substation - Vermont Electric Company (VELCO) substation) 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: \_\_\_\_\_  
 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>\$8.020</u>
8. Total Proposed PTF Costs	
a. Total Proposed PTF Cost of this Project (\$M):	<u>\$8.020</u>
b. Requested Pool-Supported PTF Costs associated with this Project (\$M):	<u>\$8.020</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>\$1.991</u>
Labor	<u>\$4.158</u>
ROW	<u>\$0.000</u>
Engineering/Permitting/Indirects	<u>\$1.511</u>
Escalation	<u>\$0.000</u>
AFUDC (or equivalent)	<u>\$0.112</u>
Contingency	<u>\$0.248</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/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 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.

## PROJECT COST ESTIMATE & SCHEDULE SHEET

Transmission Owner: Public Service Company of New Hampshire

RSP Project #: TBD

**Project Name:** NH Asset Condition and Wood Structure Replacements - 379 345-kV Line (Fitzwilliam Substation - Vermont Electric Power Company (VELCO) substation)

**Date:** Jun-22

### 1. Project Scope Summary

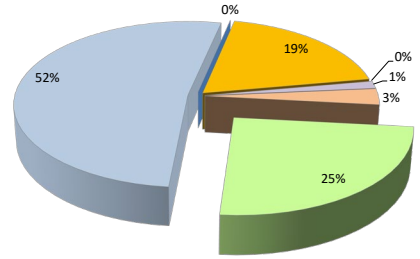
Replace 25 structures (17 wood and 8 laminate wood system (LWS) structures) with steel pole structures on the 379 345-kV Line (Fitzwilliam substation to Vermont Electric Power Company (VELCO) substation) to mitigate deficiencies such as woodpecker damage, split pole tops, cracks, insect damage, and/or decay.

### 2. Project Cost Summary

(\$M)

2.1. Project Cost Summary			
Cost Category	PTF	Non-PTF	Total
Material	\$ 1,991	\$ -	\$ 1,991
Labor & Equipment	\$ 4,158	\$ -	\$ 4,158
Right of Way	\$ -	\$ -	\$ -
Engineering/Permitting /Indirects	\$ 1,511	\$ -	\$ 1,511
Escalation	\$ -	\$ -	\$ -
AFUDC	\$ 0,112	\$ -	\$ 0,112
Contingency	\$ 0,248	\$ -	\$ 0,248
<b>Total Project Cost</b>	<b>\$ 8,020</b>	<b>\$ -</b>	<b>\$ 8,020</b>

- 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 Asset Condition and Wood Structure Replacements - 379 345-kV Line (Fitzwilliam Substation - Vermont Electric Company (VELCO) substation)	\$ 1,991	\$ 4,158	\$ -	\$ 1,511	\$ -	\$ 0,112	\$ 0,248	\$ 8,020	\$ 8,020
<b>Total</b>	<b>\$ 1,991</b>	<b>\$ 4,158</b>	<b>\$ -</b>	<b>\$ 1,511</b>	<b>\$ -</b>	<b>\$ 0,112</b>	<b>\$ 0,248</b>	<b>\$ 8,020</b>	<b>\$ 8,020</b>

### 3. Project Milestone Schedule

Description	Start	End	2022				2023				2024				2025			
			Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4
			<b>Siting &amp; Permitting</b>															
Approval and Permits	3/1/2022	10/18/2022	→															
			<b>Engineering</b>															
Engineering and Design	4/1/2022	5/26/2022	→															
			<b>Material</b>															
Material	5/9/2022	8/16/2022	→															
			<b>Construction</b>															
Construction	7/5/2022	12/31/2022	→															

NH AC and Wood Structure Replacements 379 345-kV Line Project Correlation Table  
(Fitzwilliam substation - VELCO substation)

<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-17	TBD	n/a	n/a	Replacement of 25 structures (17 wood and 8 laminate wood system structures) with light duty steel pole structures including hardware and insulators.	Per PAC Presentation 06/15/2022	\$ 8.020	
				SUBTOTAL		\$ 8.020	