

September 24, 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-46      387 345-kV Line Structure Replacement and PINCO  
Insulator Replacement Project (Scovill Rock substation  
– East Shore Structure 8879)**

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-46	Date:	Sep-21
Contact Name:	David J. Burnham			
Company Name:	Eversource Energy Service Company			
Address 1:	56 Prospect Street			
Address 2:				
City, State, Zip:	Hartford, CT 06103	RSP Project ID # or		
Contact Phone #:	860-728-4506	Asset Condition ID #	266	
Email Address:	<a href="mailto:david.burnham@eversource.com">david.burnham@eversource.com</a>	Is Project related to CIP-14		
	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		

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

a. **High Level Project Details:**

<b>Project Name</b> ( If no formal name, then Substation Upgrade, Line Upgrade, etc. are acceptable):		<b>387 345-kV Line Structure Replacement &amp; PINCO Insulator Replacement Project (Scovill Rock substation - East Shore Structure 8879)</b>	
<b>Project Location</b> (State only):	<b>State:</b>	<b>County:</b>	
	CT	New Haven, Middlesex	

b. Summary of PTF-related work for Project:

Replace 38 wood structures with steel poles and replace 21 PINCO Insulators on the 387 345-kV Line to mitigate deficiencies such as: woodpecker 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  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	<input checked="" type="checkbox"/>	
b. Economic	<input type="checkbox"/>	
c. Service to new load	<input type="checkbox"/>	
d. New generator interconnection	<input type="checkbox"/>	

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>\$12.781</u>
8. Total Proposed PTF Costs	
a. Total Proposed PTF Cost of this Project (\$M):	<u>\$12.781</u>
b. Requested Pool-Supported PTF Costs associated with this Project (\$M):	<u>\$12.781</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>\$1.896</u>
Labor	<u>\$7.099</u>
ROW	<u>\$0.000</u>
Engineering/Permitting/Indirects	<u>\$2.368</u>
Escalation	<u>\$0.570</u>
AFUDC (or equivalent)	<u>\$0.597</u>
Contingency	<u>\$0.251</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: 30px; 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.

**Preferred:** Field Inspections 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 and PINCO Insulators 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: The Connecticut Light and Power Company

RSP Project #: 266

Project Name: 387 345-kV Line Structure & PINCO Insulator Replacements (Scovill Rock substation - East Shore Structure 8879)

Date: Sep-21

## 1. Project Scope Summary

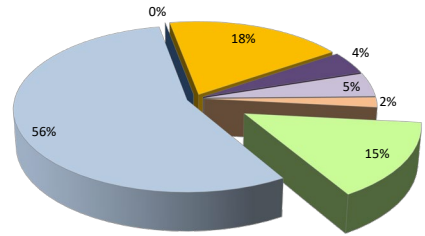
Transmission Engineering has identified 38 wood structures on the 387 345-kV Line (Scovill Rock substation - East Shore Structure 8879) that are in need of replacement with steel poles and 21 PINCO insulators requiring replacement. The structures have deficiencies such as: woodpecker damage, rot, cracks and deteriorated steel mechanics.

## 2. Project Cost Summary

(\$M)

2.1. Project Cost Summary			
Cost Category	PTF	Non-PTF	Total
Material	\$ 1.896	\$ -	\$ 1.896
Labor & Equipment	\$ 7.099	\$ -	\$ 7.099
Right of Way	\$ -	\$ -	\$ -
Engineering/Permitting /Indirects	\$ 2.368	\$ -	\$ 2.368
Escalation	\$ 0.570	\$ -	\$ 0.570
AFUDC	\$ 0.597	\$ -	\$ 0.597
Contingency	\$ 0.251	\$ -	\$ 0.251
<b>Total Project Cost</b>	<b>\$ 12.658</b>	<b>\$ -</b>	<b>\$ 12.781</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
387 345-kV Line Structure and PINCO Insulator Replacement Project (Scovill Rock substation - East Shore Structure 8879)	\$ 1.896	\$ 7.099	\$ -	\$ 2.368	\$ 0.570	\$ 0.597	\$ 0.251	\$ 12.781	\$ 12.781
<b>Total</b>	<b>\$ 1.896</b>	<b>\$ 7.099</b>	<b>\$ -</b>	<b>\$ 2.368</b>	<b>\$ 0.570</b>	<b>\$ 0.597</b>	<b>\$ 0.251</b>	<b>\$ 12.781</b>	<b>\$ 12.781</b>

## 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
			<b>Siting &amp; Permitting</b>																											
Approval and Permits	08/01/2021	10/15/2022																												
			<b>Engineering</b>																											
Engineering and Design	05/01/2021	09/03/2021																												
			<b>Land</b>																											
Material	08/01/2021	11/01/2022																												
			<b>Construction</b>																											
Construction	09/16/2021	12/31/2022																												

387 345-kV Line Structure Replacement PINCO Insulator Replacement Project Correlation  
 Table (Scovill Rock substation - East Shore Structure 8879)

<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 <u>Reference</u>	<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-46	<u>266</u>	n/a	n/a	Replace 38 wood 345-kV structures with light-duty steel pole structures, including hardware, insulators, and guys and replace 21 PINCO Insulators.	Per PAC Presentation 01/21/2021	\$ 12.781	
				SUBTOTAL		\$ 12.781	\$ -