

April 21, 2023, **Updated May 2, 2025**

Mr. Nicholas Gangi
Chair, NEPOOL Reliability Committee
ISO New England, Inc.
One Sullivan Road
Holyoke, MA 01040-2841

Dear Mr. Gangi,

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-23-TCA-11 (Updated) 1132 & 1505 115kV Asset Condition Replacements
(Brooklyn Tap – Killingly 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-23-TCA-11 Date: Apr-2023, Updated May-2025

Contact Name: Steven J. Allen

Company Name: Eversource Energy Service Company

Address 1: 56 Prospect Street

Address 2: _____

City, State, Zip: Hartford, CT 06103

Contact Phone #: 860-728-4536

Email Address: steven.allen@eversource.com

RSP Project ID # or Asset Condition ID #: 379

Is Project related to CIP-14
Yes ☐ No ☒

2. Project Description: In Service Date: Apr-24

a. **High Level Project Details:**

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

Project Location (State only):

State:

CT

1132 & 1505 115kV Asset Condition Replacements (Brooklyn Tap - Killingly substation)

County:

Windham

b. Summary of PTF-related work for Project:

This project replaced 41 existing wood structures with new weathering steel structures and modified three existing structures on the 1505/1132 115kV lines (Brooklyn Tap - Killingly substation). Foot and aerial patrols have found significant deficiencies such as: woodpecker/insect damage, rot, cracks, decay/splitting, and deteriorated steel mechanics.

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)	<input type="checkbox"/>
f. Market Efficiency Transmission Upgrade (METU)	<input type="checkbox"/>
g. Asset Condition	<input checked="" type="checkbox"/>
h. Other (specify in line 6)	<input type="checkbox"/>

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 these line segments, the identified structures in these line sections need to be replaced.

Cost of Project:

7. Total Project Cost (\$M) equals PTF + Non-PTF + all other Project Costs:	<u>\$16.051</u>
8. Total Proposed PTF Costs	
a. Total Proposed PTF Cost of this Project (\$M):	<u>\$16.051</u>
b. Requested Pool-Supported PTF Costs associated with this Project (\$M):	<u>\$16.051</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>\$2.895</u>
Labor	<u>\$8.729</u>
ROW	<u>\$0.034</u>
Engineering/Permitting/Indirects	<u>\$4.156</u>
Escalation	<u>\$0.000</u>
AFUDC (or equivalent)	<u>\$0.237</u>
Contingency	<u>\$0.000</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: 2025

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 is not a preferred alternative - This does not support the long-term integrity and reliability of the transmission system, is not cost effective, and is not in Eversource's "best-practice" concerning the potential for independent future repairs which would require additional engineering, permitting, siting, line outages in the future.

Preferred:

- Replace 41 remaining wood structures on Lines 1131 and 1505 (Brooklyn Tap - Killingly substation) - This is the preferred solution as it is cost-effective, and supports the Eversource standard for long-term integrity and continued reliability of the transmission system

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.

There is no unusual Siting or Permitting 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 #: 379

Project Name: 1132 & 1505 115kV Asset Condition
Replacements (Brooklyn Tap - Killingly substation)

Date: Apr-2023, Updated May-2024

1. Project Scope Summary

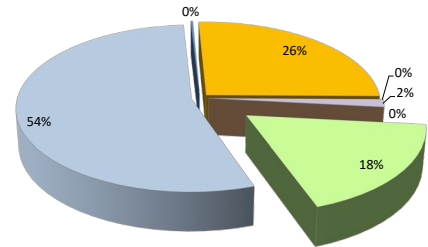
This project replaced 41 existing wood structures with new weathering steel structures and modified three existing structures on the 1505/1132 115kV lines (Brooklyn Tap - Killingly substation). Foot and aerial patrols have found significant deficiencies such as: woodpecker/insect damage, rot, cracks, decay/splitting, and deteriorated steel mechanics.

2. Project Cost Summary

(\$M)

2.1. Project Cost Summary			
Cost Category	PTF	Non-PTF	Total
Material	\$ 2.895	\$ -	\$ 2.895
Labor & Equipment	\$ 8.729	\$ -	\$ 8.729
Right of Way	\$ 0.034	\$ -	\$ 0.034
Engineering/Permitting /Indirects	\$ 4.156	\$ -	\$ 4.156
Escalation	\$ -	\$ -	\$ -
AFUDC	\$ 0.237	\$ -	\$ 0.237
Contingency	\$ -	\$ -	\$ -
Total Project Cost	\$ 16.051	\$ -	\$ 16.051

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
1132 & 1505 115kV Asset Condition Replacements (Brooklyn Tap - Killingly substation)	\$ 2.895	\$ 8.729	\$ 0.034	\$ 4.156	\$ -	\$ 0.237	\$ -	\$ 16.051	\$ 16.051
Total	\$ 2.895	\$ 8.729	\$ 0.034	\$ 4.156	\$ -	\$ 0.237	\$ -	\$ 16.051	\$ 16.051

3. Project Milestone Schedule

Description	Start	End	2021				2022				2023				2024				2025			
			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	10/31/2022	11/27/2023																				
Engineering																						
Engineering and Design	5/22/2022	4/27/2023																				
Material																						
Material	12/22/2022	10/6/2023																				
Construction																						
Construction	5/1/2023	4/29/2024																				
			Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4
			2021				2022				2023				2024				2025			

1132 and 1505 115kV Lines Asset Condition Replacements Project
Correlation Table
(Brooklyn Tap - Killingly 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 <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-23-TCA-11	379	n/a	n/a	Replaced 41 existing wood structures with light-duty steel structures and modified three existing structures, to include hardware, insulators, and guys.	Per PAC Presentation 04/20/2023	\$ 16.051	
				SUBTOTAL		\$ 16.051	\$ -