56 Prospect Street
Hartford, CT 06103

Steven J. Allen
Eversource ISO Policy and Economic Analysis
phone: 860-728-4536
email: steven.allen@eversource.com

November 14, 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-21-TCA-35-Rev1 **330 345-kV Line Structure Replacement Project (Card substation to 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 Revision Form

1. Applicant:

Revised Application #: ES-21-TCA-35-Rev1 Date: Nov-22

Original Application #: ES-21-TCA-35 Date of Original Approval: Not Received

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

Include a copy of the prior Application. The revision was required because of:

a) a material change in design [ ]

b) a cost increase greater than 10% [X]

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

a. **High Level Project Details:**

Project Name (If no formal name, then Substation Upgrade, Line Upgrade, etc. are acceptable): **330 345-kV Line Structure Replacement Project (Card substation - Killingly substation)**

Project Location (State only): State: **CT** **County:** **Tolland, Windham**

a. Summary of PTF-related work for Project:

Transmission Engineering has identified 25 wood structures on the 330 345-kV Line (Card substation - Killingly substation) in need of replacement with steel pole structures. The structures have deficiencies such as: woodpecker damage, rot, cracks and deteriorated mechanics.

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

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

3. Was a revised transmission Proposed Plan Application required for this work? Yes [ ] No [X] PPA Number: N/A

4. Has a revised transmission Proposed Plan Application been approved? Yes [ ] No [ ] N/A [X] 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

a. Reliability [X]

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)	☐

8. Provide a narrative description of the need for this Project.
(Include available documentation relative to the need for revisions to this Project. Explain the cost and/or material change differences.

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.

Increased costs were the result of extensive matting required to support the phase one of construction to mitigate environmental disturbances and wetland mitigation. This level of matting was not planned for in the original construction budget.

Revised Cost of Project:	**Original Application**	**Revision to Original Application**
10. Total Project Cost ($M) equals PTF + Non-PTF + all other Project Costs:	$8.039	$10.248
11. Total Proposed PTF Costs		
a. Total Proposed PTF Cost of this Project ($M):	$8.039	$10.248
b. Requested Pool-Supported PTF Costs associated with this Project ($M):	$8.039	$10.248
c. Breakdown of Requested Pool-Supported PTF Cost associated with this Project ($M): (Consistent with Table 1 and Appendix D of this Procedure)		
Material	$1.170	$1.170
Labor	$3.838	$6.594
ROW	$0.000	$0.000
Engineering/Permitting/Indirects	$2.474	$1.827
Escalation	$0.000	$0.000
AFUDC (or equivalent)	$0.382	$0.382
Contingency	$0.175	$0.275
d. Generator Supported PTF Costs* ($M):	$0.000	$0.000

If the costs in 7.b. plus 7.d. do not equal the total proposed PTF cost (7.a) explain and indicate who is responsible for the remaining costs.

12. Total Proposed Non-PTF Cost of this Project ($M):	$0.000	$0.000
13. Proposed PTF Costs ($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.	$0.000	$0.000

a. Description of Proposed PTF Cost introduced as a result of local, state or other regulatory/legislative requirements as defined in question 8 above.

14. All other Project Costs not captured in PTF Costs (8) or Non-PTF Costs (9)Total Non-PTF Cost ($M) associated with this Project:	$0.000	$0.000

15. Total PTF Cost based on: (check one)
    Actual Costs [ ]
    OR
    Estimated Costs* [X]

16. Valuation Year of dollar amounts submitted above: _____2022_____

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

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

* 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 #:** 263

Project Name: 330 345-kV Line Structure Replacement Project (Card substation - Killingly substation) **Date:** Nov-22

1. Project Scope Summary

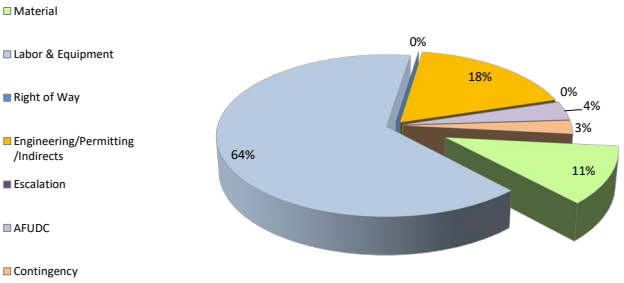
Transmission Engineering has identified 25 wood structures on the 330 345-kV Line (Card substation - Killingly substation) in need of replacement with steel pole structures. The structures have deficiencies such as: woodpecker damage, rot, cracks and deteriorated mechanics.

2. Project Cost Summary

($M)

2.1. Project Cost Summary

Cost Category	PTF	Non-PTF	Total
Material	$ 1.170	$ -	$ 1.170
Labor & Equipment	$ 6.594	$ -	$ 6.594
Right of Way	$ -	$ -	$ -
Engineering/Permitting /Indirects	$ 1.827	$ -	$ 1.827
Escalation	$ -	$ -	$ -
AFUDC	$ 0.382	$ -	$ 0.382
Contingency	$ 0.275	$ -	$ 0.275
Total Project Cost	**$ 10.248**	**$ -**	**$ 10.248**



2.2 Detailed Cost Summary By Project Element

	Material	Labor & Equipment	Right of Way	Engineering/ Permitting/ Indirects	Escalation	AFUDC	Contingency	Total	PTF Amount
330 345-kV Line Structure Replacement Project (Card substation - Killingly substation)	$ 1.170	$ 6.594	$ -	$ 1.827	$ -	$ 0.382	$ 0.275	$ 10.248	$ 10.248
Total	**$ 1.170**	**$ 6.594**	**$ -**	**$ 1.827**	**$ -**	**$ 0.382**	**$ 0.275**	**$ 10.248**	**$ 10.248**

3. Project Milestone Schedule

Description			2020 Qtr1	2020 Qtr2	2020 Qtr3	2020 Qtr4	2021 Qtr1	2021 Qtr2	2021 Qtr3	2021 Qtr4	2022 Qtr1	2022 Qtr2	2022 Qtr3	2022 Qtr4	2023 Qtr1	2023 Qtr2	2023 Qtr3	2023 Qtr4	2024 Qtr1	2024 Qtr2	2024 Qtr3	2024 Qtr4	2025 Qtr1	2025 Qtr2	2025 Qtr3	2025 Qtr4
Siting & Permitting																										
Approval and Permits	7/2/2021	11/21/2022							→		→															
Engineering																										
Engineering and Design	1/21/2021	6/23/2021						→																		
Land																										
Material	6/14/2021	9/28/2021							→																	
Construction																										
Construction	9/23/2021	12/31/2023							→		→		→		→											
			Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4
			2020				2021				2022				2023				2024				2025			

330 345-kV Line Structure Replacement Project Correlation Table
(Card substation - Killingly substation)

TCA Item	RSP: Project ID #	Study: Reliability Issues Requiring Action	PPA Application: PPA No.	PPA Application: Preferred Solution Description	PAC/RC Meeting: Presentation Reference	TCA Application ($1,000s): PTF Estimate	TCA Application ($1,000s): Non-PTF Estimate
ES-21-TCA-35-Rev1	263	n/a	n/a	Replace 25 wood 345-kV structures with light-duty steel pole structures, including hardware, insulators, and guys.	ISO-NE PAC Presentation 01/21/2021 ISO-NE RC 12/14/2021	$ 10,248	
				SUBTOTAL		$ 10,248	$ -