EVERSOURCE ENERGY

56 Prospect Street
Hartford, CT 06103

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April 09, 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-24 **3041 345-kV Line Structure Replacements and PINCO Insulator Replacements (Southington substation – Scovill Rock 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:

Contact Name:	David J. Burnham
Company Name:	Eversource Energy Service Company
Address 1:	56 Prospect Street
Address 2:	
City, State, Zip	Hartford, CT 06103
Contact Phone #	860-728-4506
Email Address	david.burnham@eversource.com

Application #: ES-21-TCA-24

Date: Apr-21

RSP Project ID # or Asset Condition ID #: 267

Is Project related to CIP-14: Yes [ ] No [X]

2. Project Description:

In Service Date: Oct-21

a. **High Level Project Details:**

Project Name (If no formal name, then Substation Upgrade, Line Upgrade, etc. are acceptable): **3041 345-kV Line Structure Replacements and PINCO Insulator Replacements (Southington substation - Scovill Rock substation)**

Project Location (State only): **State:** **CT** **County:** **Hartford, New Haven, Middlesex**

b. Summary of PTF-related work for Project:

Replace 36 wood structures with steel pole structures and replace PINCO Insulators on the 3041 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 [X] PPA Number: n/a

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

6. Provide a narrative description of the need for this Project.
(Include available documentation relative to the need for this Project.)

Replacing these structures and insulators 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**:	**$14.534**
8. Total Proposed PTF Costs	
a. Total Proposed PTF Cost of this Project ($M):	$14.534
b. Requested Pool-Supported PTF Costs associated with this Project ($M):	**$14.534**
c. Breakdown of Requested Pool-Supported PTF Cost associated with this Project ($M): (Consistent with Table 1 and Appendix D of this Procedure)	
Material	$1.993
Labor	$8.829
ROW	$0.000
Engineering/Permitting/Indirects	$2.527
Escalation	$0.000
AFUDC (or equivalent)	$0.847
Contingency	$0.339
d. Generator Supported PTF Costs* ($M):	$0.000
If the costs in 8.b. plus 8.d. do not equal the total proposed PTF cost (8.a) explain and indicate who is responsible for the remaining costs.	
9. Total Proposed Non-PTF Cost of this Project ($M):	$0.000
10. Proposed PTF Costs ($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.	$0.000
a. Description of Proposed PTF Cost introduced as a result of local, state or other regulatory/legislative requirements as defined in question 8 above.	
11. All other Project Costs not captured in PTF Costs (8) or Non-PTF Costs (9) ($M) associated with this Project:	

12. Total PTF Cost based on: (check one)
Actual Costs ☐
OR
Estimated Costs* ☒ X

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 ☒ X

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 #:** 267

Project Name: 3041 Line Asset Condition and PINCO Insulator Replacement (Southington Substation - Scovill Rock) **Date:** Apr-21

1. Project Scope Summary

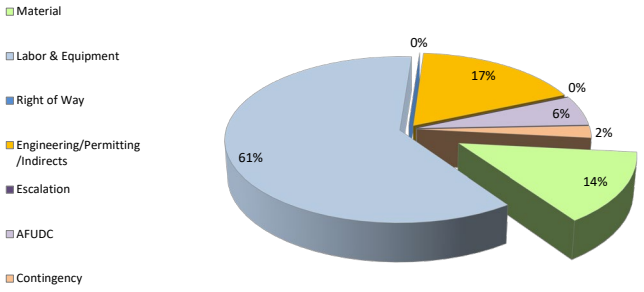
This project will replace 36 wood structures with steel poles and PINCO Insulators due to age and deteriorating conditions on the 3041 345-kV Line (Southington substation - Scovill Rock substation). The structures have deficiencies such as: woodpecker damage, rot, cracks, and deteriorated steel mechanics.

2. Project Cost Summary

($M)

2.1. Project Cost Summary

Cost Category	PTF	Non-PTF	Total
Material	$ 1.993	$ -	$ 1.993
Labor & Equipment	$ 8.829	$ -	$ 8.829
Right of Way	$ -	$ -	$ -
Engineering/Permitting /Indirects	$ 2.527	$ -	$ 2.527
Escalation	$ -	$ -	$ -
AFUDC	$ 0.847	$ -	$ 0.847
Contingency	$ 0.339	$ -	$ 0.339
Total Project Cost	**$ 14.534**	**$ -**	**$ 14.534**



2.2 Detailed Cost Summary By Project Element

	Material	Labor & Equipment	Right of Way	Engineering/ Permitting/ Indirects	Escalation	AFUDC	Contingency	Total	PTF Amount
3041 345-kV Line Structure Replacements and PINCO Insulator Replacements	$ 1.993	$ 8.829	$ -	$ 2.527	$ -	$ 0.847	$ 0.339	**$ 14.535**	**$ 14.534**
Total	**$ 1.993**	**$ 8.829**	**$ -**	**$ 2.527**	**$ -**	**$ 0.847**	**$ 0.339**	**$ 14.534**	**$ 14.534**

3. Project Milestone Schedule

Description			2016 Qtr1	Qtr2	Qtr3	Qtr4	2017 Qtr1	Qtr2	Qtr3	Qtr4	2018 Qtr1	Qtr2	Qtr3	Qtr4	2019 Qtr1	Qtr2	Qtr3	Qtr4	2020 Qtr1	Qtr2	Qtr3	Qtr4	2021 Qtr1	Qtr2	Qtr3	Qtr4	2022 Qtr1	Qtr2	Qtr3	Qtr4
Siting & Permitting																												
Approval and Permits	03/01/2021	07/01/2021																					→					
Engineering																												
Engineering and Design	12/01/2021	03/22/2021																						→				
Land																												
Material	03/15/2021	07/01/2021																					→					
Construction																												
Construction	06/01/2021	10/25/2021																							→			
			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
			2016				2017				2018				2019				2020				2021				2022			

3041 345-kV Line Structure Replacements and PINCO Insulator Replacements Project Correlation Table
(Southington substation - Scovill 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-24	**267**	n/a	n/a	Replace 36 wood 345-kV structures and PINCO Insulators with light-duty steel pole structures, including hardware, insulators, and guys.	Per PAC Presentation 01/21/2021	$ 14.534	
				SUBTOTAL		$ 14.534	$ -