

January 22, 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-01      373 345-kV Line OPGW Installation and Structure Replacements  
Project (Deerfield substation to Scobie Pond 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: Application #: ES-21-TCA-01 Date: Jan-21  
 Contact Name: David J. Burnham  
 Company Name: Eversource Energy  
 Address 1: 56 Prospect Street  
 Address 2: \_\_\_\_\_  
 City, State, Zip: Hartford, CT 06103 RSP Project ID # or Asset Condition ID # \_\_\_\_\_  
 Contact Phone #: 860-728-4506 Is Project related to CIP-14  
 Email Address: david.burnham@eversource.com Yes  No

2. Project Description: In Service Date: Jul-21

a. **High Level Project Details:**

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

**373 345-kV Line Structure Replacements and OPGW Installation Project (Deerfield substation - Scobie Pond substation)**

**Project Location** (State only):

**State:**

NH

**County:**

Rockingham

b. Summary of PTF-related work for Project:

This project will replace a total of 22 structures on the 373 345-kV Line (Deerfield substation to Scobie Pond substation) and install 18.5 miles of OPGW. The structures are being replaced as a result of loading of the new OPGW as well as foot and aerial patrols noting 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
- 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. )

Fiber installation supports present and future expansion of secure, high bandwidth Eversource network/systems, supports direct fiber connected relay protection systems and grid modernization efforts and ensures high reliability, low latency network communications. Structure replacements will account for the loading of the new OPGW and remedies the potential for structure failure 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>\$9.351</u>
8. Total Proposed PTF Costs	
a. Total Proposed PTF Cost of this Project (\$M):	<u>\$9.351</u>
b. Requested Pool-Supported PTF Costs associated with this Project (\$M):	<u>\$9.351</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>\$0.884</u>
Labor	<u>\$6.309</u>
ROW	<u>\$0.000</u>
Engineering/Permitting/Indirects	<u>\$1.647</u>
Escalation	<u>\$0.000</u>
AFUDC (or equivalent)	<u>\$0.217</u>
Contingency	<u>\$0.294</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): \$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: \$0.000

12. Total PTF Cost based on: (check one)

Actual Costs

**OR**

Estimated Costs\*

13. Valuation Year(s) of dollar amounts submitted above: 2020

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:** Installing OPGW improves the communication network and expanding fiber optic infrastructure to meet operational and compliance needs. Replacing 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: Eversource

RSP Project #:

**Project Name:** 373 345-kV Line Structure Replacement and OPGW Installation Project (Deerfield substation to Scobie Pond substation)

**Date:** Jan-21

## 1. Project Scope Summary

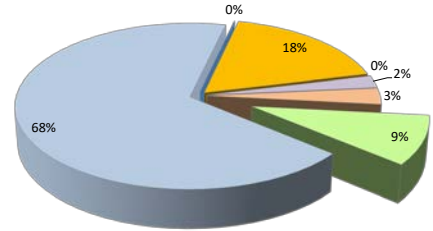
This project will replace a total of 22 structures on the 373 345-kV Line (Deerfield substation to Scobie Pond substation) and install 18.5 miles of OPGW. The structures are being replaced as a result of loading of the new OPGW as well as foot and aerial patrols noting deficiencies such as: woodpecker damage, rot, cracks and deteriorated steel mechanical connections.

## 2. Project Cost Summary

(\$M)

2.1. Project Cost Summary			
Cost Category	PTF	Non-PTF	Total
Material	\$ 0.884	\$ -	\$ 0.884
Labor & Equipment	\$ 6.309	\$ -	\$ 6.309
Right of Way	\$ -	\$ -	\$ -
Engineering/Permitting /Indirects	\$ 1.647	\$ -	\$ 1.647
Escalation	\$ -	\$ -	\$ -
AFUDC	\$ 0.217	\$ -	\$ 0.217
Contingency	\$ 0.294	\$ -	\$ 0.294
<b>Total Project Cost</b>	<b>\$ 9.351</b>	<b>\$ -</b>	<b>\$ 9.351</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
373 structure replacements and OPGW Installation Project	\$ 0.884	\$ 6.309	\$ -	\$ 1.647	\$ -	\$ 0.217	\$ 0.294	\$ 9.351	\$ 9.351
<b>Total</b>	<b>\$ 0.884</b>	<b>\$ 6.309</b>	<b>\$ -</b>	<b>\$ 1.647</b>	<b>\$ -</b>	<b>\$ 0.217</b>	<b>\$ 0.294</b>	<b>\$ 9.351</b>	<b>\$ 9.351</b>

## 3. Project Milestone Schedule

Description	2020				2021				2022			
	Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4
Approval and Permits												
09/01/2020												
04/01/2021												
Engineering and Design												
08/01/2020												
02/28/2021												
Material												
12/01/2020												
05/30/2021												
Construction												
01/04/2021												
07/31/2021												

373 345-kV Line OPGW installation and Structure Replacements Project Correlation Table  
 (Deerfield substation - Scobie Pond substation)

<u>TCA Item</u>	<u>RSP:</u> Project ID #	<u>Study:</u> Reliability Issues Requiring Action	<u>PPA Application:</u>		<u>PAC/RC Meeting:</u> Presentation Reference	<u>TCA Application (\$1,000s):</u>	
			<u>PPA No.</u>	<u>Preferred Solution Description</u>		<u>PTF Estimate</u>	<u>Non-PTF Estimate</u>
ES-21-TCA-01	###	n/a	n/a	Install OPGW and replace 22 wood 345-kV structures with light-duty steel pole structures, including hardware, insulators, and guys.	Per PAC Presentation 01/21/2021	\$ 9.351	
				SUBTOTAL		\$ 9.351	\$ -