

56 Prospect Street Hartford, CT 06103

Steven J. Allen Eversource, ISO-NE Coordination phone: 860-728-4536 email: steven.allen@eversource.com

September 22, 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-22-TCA-36 P106 115-kV Line Wood/Laminate Wood Structure Replacements and OPGW Installation (Rimmon substation – Eddy 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

		<u>ttachment B</u> Application Form			
Applicant: Contact Name:	Steven J. Allen	Application #:	ES-22-TCA-36	Date:	Sep-22
Company Name:	Eversource Energy Service Company				
Address 1:	56 Prospect Street				
Address 2:	30 i rospect street	RSP Project ID # or			
City, State, Zip	Hartford, CT 06103	Asset Condition ID #	TBD		
Contact Phone #	860-728-4536	Is Project related to CIP-14		_	
Email Address	steven.allen@eversource.com	Yes No	X		
2. Project Description:				In Service Date:	<u>Aug-23</u>
	a. High Level Project Details:				
	Project Name (If no formal name, then Substation Upgrade, Line U	pgrade, etc. are acceptable):		Structure Replacements and OPC t (Rimmon substation - Eddy subs	
	Project Location (State only): State:	NH	County:	Hillsborough	
	b. Summary of PTF-related work for Project:				
	on the P106 115-kV Line (Rimmon substation - Eddy substation) to m Final project cost details will be known following closeout of all proje c. Summary of Non-PTF-related work for Project:				
	oposed Plan Application required for this work? oposed Plan Application been approved?	Yes No	X X N/A	PPA Number: n/a Approval Date: n/a	
If yes, attach a copy ar	d reference Proposed Plan Application # and approval date.	(Please check only one)			
Need For Project:					
5. Need Based On (Chec	k 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)	Page 1			

ISO-NE Public

e.	Public Policy Transmission Upgrade (PPTU)	
f.	Market Efficiency Transmission Upgrade (METU)	
g.	Asset Condition	X
h.	Other (specify in line 6)	
	ion of the need for this Project. tation relative to the need for this Project.)	
Replacing these structur		erabilities. To ensure the continued operability of this line segment, the identified dth, security, and continuity in network reliability.

Cost of Project:	
7. Total Project Cost (\$\(\frac{\mathbb{M}}{M}\)) equals PTF + Non-PTF + all other Project Costs:	\$5.634
8. Total Proposed PTF Costs	
a. Total Proposed PTF Cost of this Project (\$M):	\$5.634
b. Requested Pool-Supported PTF Costs associated with this Project (\$M):	\$5.634
c. Breakdown of Requested Pool-Supported PTF Cost associated with this Project (\$M): (Consistent with Table 1 and Appendix D of this Procedure)	
Material	\$0.719
Labor	\$2.843
ROW	\$0.000
Engineering/Permitting/Indirects	\$1.379
Escalation	\$0.000
AFUDC (or equivalent)	\$0.160
Contingency	\$0.533
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:	\$0.000
12. Total PTF Cost based on: (check one) Actual Costs OR	
Estimated Costs* X	
13. Valuation Year(s) of dollar amounts submitted above:2022	
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.
	<u>Preferred:</u> Field inspections have indicated a significant amount of degradation and decreased load carrying capacity of laminate wood 115-kV structures (many of the poles show signs of rot, cracks, splits, and deterioration). Replacing the structures resolves multiple structural/hardware issues and supports safe and reliable operation of the transmission line. The installation of OPGW will provide high speed communication between substations, reduce dependency on leased services for protection and improve the 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.
	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: Public Service Company of New Hampshire

RSP Project #: TBD

Project Name: P106 115-kV Line Structure Replacements and OPGW Installation Project (Rimmon substation - Eddy substation)

Date: Sep-22

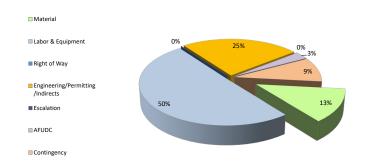
1. Project Scope Summary

This project will replaced 16 wood and laminate wood structures with light-duty steel structures and install 3.4 miles (two 1.7 circuit miles) of Optical Ground Wire (OPGW) on the P106 115-kV Line (Rimmon substation - Eddy substation) to mitigate deficiencies such as rot, splits, cracks, and ability to accommodate OPGW.

2. Project Cost Summary

(\$M)

2.1. Project Cost Summary							
Cost Category	PTF		Non-PTF		Total		
Material	\$	0.719	\$	-	\$	0.719	
Labor & Equipment	\$	2.843	\$	-	\$	2.843	
Right of Way	\$	-	\$	-	\$	-	
Engineering/Permitting /Indirects	\$	1.379	\$	-	\$	1.379	
Escalation	\$	-	\$	-	\$	-	
AFUDC	\$	0.160	\$	-	\$	0.160	
Contingency	\$	0.533	\$	-	\$	0.533	
Total Project Cost	\$	5.634	\$	-	\$	5.634	



2.2 Detailed Cost Summary By Project Element									
	Material	Labor & Equipment	Right of Way	Engineering/ Permitting/ Indirects	Escalation	AFUDC	Contingency	Total	PTF Amount
P106 115-kV Line Structure Replacements and OPGW Installation Project (Rimmon substation -	\$ 0.719	\$ 2.843	\$ -	\$ 1.379	\$ -	\$ 0.160	\$ 0.533	\$ 5.634	\$ 5.634
Eddy substation) Total	\$ 0.719	\$ 2.843	\$ -	\$ 1.379	\$ -	\$ 0.160	\$ 0.533	\$ 5.634	\$ 5.634

3. Project Milestone Schedule

			2021 2022 2023 2024	2025
			Qtr1 Qtr2 Qtr3 Qtr4 Qtr1	Qtr2 Qtr3 Qt
Description	Start	End	Siting & Permitting	
Approval and Permits	7/25/2022	10/21/2022	\longrightarrow	
			Engineering	
Engineering and Design	7/18/2022	1/23/2023		
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			Material	
Material	7/25/2022	5/31/2023		
			Construction	
Construction	10/17/2022	8/21/2023		
			Qtr1 Qtr2 Qtr3 Qtr4 Qtr1	Qtr2 Qtr3 Qti
			2021 2022 2023 2024	2025

P106 115-kV Line Structure Replacements and OPGW Installation Project Correlation Table (Rimmon substation - Eddy substation)

TCA Item	<u>RSP:</u> Project ID #	<u>Study:</u> Reliability Issues Requiring <u>Action</u>	PPA Application: PPA No. Preferred Solution Description		PAC/RC Meeting: Presentation Reference	TCA Applic PTF Estimate	cation (\$Ms): Non-PTF Estimate
ES-22-TCA-36	<u>TBD</u>	n/a	n/a	Replace 16 wood/laminate wood structures with light-duty steel structures to include insulators, guys and hardware and install 3.4 miles of Optical Ground Wire (OPGW).	Per PAC Presentation 9/21/2022	\$ 5.634 \$ 5.634	\$ -