

September 12, 2019

Ms. Mariah Winkler
Chair, NEPOOL Reliability Committee
ISO New England, Inc.
One Sullivan Road
Holyoke, MA 01040-2841

Dear Ms. Winkler,

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 Connecticut Light and Power Company project:

**ES-19-TCA-48 1261/1598 115kV Line Structure Replacements (Haddam
substation – Bokum 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,

Shaun Moran

Shaun Moran

cc: M. Drzewianowski

Attachment B TCA Application Form			
1. Applicant: Contact Name: _____ Company Name: _____ Address 1: _____ Address 2: _____ City, State, Zip: _____ Contact Phone #: _____ Email Address: _____	Shaun Moran Eversource Energy 247 Station Drive Westwood, MA 02090 781-441-8328 shaun.moran@eversource.com	Application #: ES-19-TCA-48 Date: Sep-19	RSP Project ID # or Asset Condition ID #: 120 Is Project related to CIP-14 Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
2. Project Description: <div style="margin-top: 10px;"> a. High Level Project Details: <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> Project Name (If no formal name, then Substation Upgrade, Line Upgrade, etc. are acceptable): Project Location (State only): <div style="display: flex; justify-content: space-between;"> <div>State: <div style="border: 1px solid black; padding: 2px 10px;">CT</div></div> <div>County: <div style="border: 1px solid black; padding: 2px 10px;">Middlesex</div></div> </div> </div> </div> <div style="margin-top: 10px;"> b. Summary of PTF-related work for Project: Replace 81 wood structures on the 1261/1598 115-kV Line with steel pole structures to mitigate deficiencies such as: woodpecker damage, rot, cracks and deteriorated steel mechanical connections. Final project cost details will be known following close out of all project work orders. </div> <div style="margin-top: 10px;"> c. Summary of Non-PTF-related work for Project: </div>		In Service Date: Dec-19 <div style="margin-top: 10px;"> 3. Was a transmission Proposed Plan Application required for this work? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> PPA Number: n/a 4. Has a transmission Proposed Plan Application been approved? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> Approval Date: _____ If yes, attach a copy and reference Proposed Plan Application # and approval date. (Please check only one) </div>	
Need For Project: <div style="margin-top: 10px;"> 5. Need Based On (Check all Categories that apply): <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> a. Reliability <input checked="" type="checkbox"/> </div> <div style="width: 50%;"> b. Economic <input type="checkbox"/> </div> <div style="width: 50%;"> c. Service to new load <input type="checkbox"/> </div> <div style="width: 50%;"> d. New generator interconnection <input type="checkbox"/> </div> </div> </div> <div style="margin-top: 10px;"> Generator Proposed Plan Application Number _____ Generator Proposed Plan Application Date _____ (Attach copy of cover letter & Generator Proposed Plan Application) _____ </div>			

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 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:
8. Total Proposed PTF Costs
- a. Total Proposed PTF Cost of this Project (\$M):
- b. Requested Pool-Supported PTF Costs associated with this Project (\$M):
- c. Breakdown of Requested Pool-Supported PTF Cost associated with this Project (\$M):
(Consistent with Table 1 and Appendix D of this Procedure)

Material	\$3,053
Labor	\$14,997
ROW	\$0,000
Engineering/Permitting/Indirects	\$1,425
Escalation	\$0,000
AFUDC (or equivalent)	\$0,407
Contingency	\$0,470
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):
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.
- 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* ☒

13. Valuation Year(s) of dollar amounts submitted above: 2019

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: Field Inspections have indicated a significant amount of degradation and decreased load carrying capacity of wood 115-kV structures (many of the poles show signs of decay, woodpecker damage, rot, and deterioration). Replacing the 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 #: 120

Project Name: 1261/1598 115-kV Line - Structure Replacement Project

Date: Sep-19

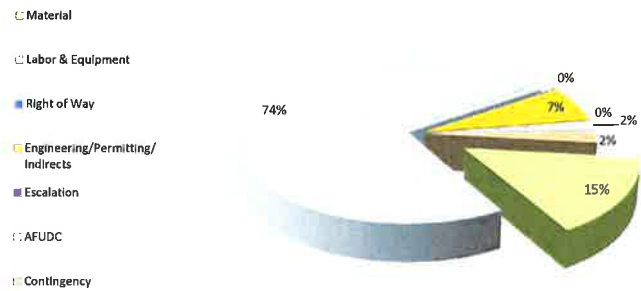
1. Project Scope Summary

Transmission Line Maintenance has identified 81 structures on the 1261/1598 Line (Haddam Substation 11C to Bokum Substation 15L) that are in need of replacement as the result of foot and aerial patrols. The structures have deficiencies such as: woodpecker damage, rot, cracks and deteriorated steel mechanical connections.

2. Project Cost Summary

(\$1000s)

2.1. Project Cost Summary			
Cost Category	PTF	Non-PTF	Total
Material	\$ 3,053	\$ -	\$ 3,053
Labor & Equipment	\$ 14,997	\$ -	\$ 14,997
Right of Way	\$ -	\$ -	\$ -
Engineering/Permitting/ Indirects	\$ 1,425	\$ -	\$ 1,425
Escalation	\$ -	\$ -	\$ -
AFUDC	\$ 407	\$ -	\$ 407
Contingency	\$ 470	\$ -	\$ 470
Total Project Cost	\$ 20,352	\$ -	\$ 20,352



2.2 Detailed Cost Summary By Project Element									
	Material	Labor & Equipment	Right of Way	Engineering/ Permitting/ Indirects	Escalation	AFUDC	Contingency	Total	PTF Amount
1261/1598 115-kV Line Structure Replacement	\$ 3,053	\$ 14,997	\$ -	\$ 1,425	\$ -	\$ 407	\$ 470	\$ 20,352	\$ 20,352
Total	\$ 3,053	\$ 14,997	\$ -	\$ 1,425	\$ -	\$ 407	\$ 470	\$ 20,352	\$ 20,352

3. Project Milestone Schedule

			2016		2017		2018		2019		2020		2021		2022			
Description			Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4
			Siting & Permitting															
Approval and Permits	11/01/2017	08/30/2019																
			Engineering															
Engineering and Design	11/01/2017	08/30/2019																
			Land															
Material	11/01/2017	08/01/2019																
			Construction															
Construction	08/01/2018	12/31/2019																
			Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4
			2016		2017		2018		2019		2020		2021		2022			

<u>ICA</u> Item	<u>RSP:</u> Project ID #	<u>Study:</u> Reliability Issues Requiring Action	<u>PPA No.</u>	<u>PPA Application:</u> Preferred Solution Description	<u>PAC/RC Meeting:</u> Presentation Reference	<u>TCA Application:</u>	
						<u>PTF</u> Estimate	<u>Non-PTF</u> Estimate
ES-19-TCA-48	120	n/a	n/a	Replace 81 wood 115-kV structures with light-duty steel pole structures, including hardware, insulators, and guys.	Per PAC Presentation 10/17/2018	\$ 20,352	
SUBTOTAL						\$ 20,352	\$ -