

November 5, 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-96 1765 115-kV Line Structure Replacement Project (West Side
substation – Berlin 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,

Digaunto Chatterjee

Digaunto Chatterjee

cc: M. Drzewianowski

Attachment B
TCA Application Form

1. Applicant: Application #: ES-19-TCA-96 Date: Nov-19

Contact Name: Digaunto Chatterjee

Company Name: Eversource Energy

Address 1: 56 Prospect Street

Address 2: _____

City, State, Zip: Hartford, CT 06103

Contact Phone #: 860-728-4832

Email Address: digaunto.chatterjee@eversource.com

RSP Project ID # or Asset Condition ID #: 134

Is Project related to CIP-14
Yes ☐ No ☒

2. Project Description: In Service Date: Jul-20

a. **High Level Project Details:**

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

1765 115-kV Line Structure Replacement Project (West Side substation - Berlin substation)

Project Location (State only):

State:

CT

County:

Hartford, Middlesex

b. Summary of PTF-related work for Project:

Replace 43 wood structures on the 1765 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 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)	<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:	<u>\$13.122</u>
8. Total Proposed PTF Costs	
a. Total Proposed PTF Cost of this Project (\$M):	<u>\$13.122</u>
b. Requested Pool-Supported PTF Costs associated with this Project (\$M):	<u>\$13.122</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>\$1.968</u>
Labor	<u>\$9.503</u>
ROW	<u>\$0.000</u>
Engineering/Permitting/Indirects	<u>\$0.919</u>
Escalation	<u>\$0.000</u>
AFUDC (or equivalent)	<u>\$0.262</u>
Contingency	<u>\$0.000</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):	<u>\$0.000</u>
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.	<u>\$0.000</u>
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:	<u>\$0.000</u>

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 #: 134

Project Name: 1765 115-kV Line - Structure Replacement Project

Date: Nov-19

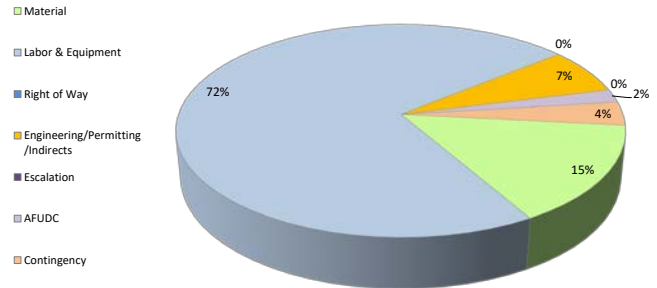
1. Project Scope Summary

Transmission Line Maintenance has identified 43 wood structures on the 1765 115-kV Line (West Side Substation to the Berlin Substation) that are in need of replacement as the result of foot an aerial patrols. The structures have deficiencies such as: woodpecker damage, rot, cracks and deteriorated steel mechanical connections.

2. Project Cost Summary

(\$1,000s)

2.1. Project Cost Summary			
Cost Category	PTF	Non-PTF	Total
Material	\$ 1,968	\$ -	\$ 1,968
Labor & Equipment	\$ 9,503	\$ -	\$ 9,503
Right of Way	\$ -	\$ -	\$ -
Engineering/Permitting /Indirects	\$ 919	\$ -	\$ 919
Escalation	\$ -	\$ -	\$ -
AFUDC	\$ 262	\$ -	\$ 262
Contingency	\$ 470	\$ -	\$ 470
Total Project Cost	\$ 13,122	\$ -	\$ 13,122



2.2 Detailed Cost Summary By Project Element									
	Material	Labor & Equipment	Right of Way	Engineering/ Permitting/ Indirects	Escalation	AFUDC	Contingency	Total	PTF Amount
1765 115-kV Line Structure Replacements	1,968	9,503	0	919	0	262	470	\$ 13,122	\$ 13,122
Total	\$ 1,968	\$ 9,503	\$ -	\$ 919	\$ -	\$ 262	\$ 470	\$ 13,122	\$ 13,122

3. Project Milestone Schedule

			2016				2017				2018				2019				2020				2021				2022			
			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
Description			Siting & Permitting																											
Approval and Permits	09/05/2017	02/18/2010																												
			Engineering																											
Engineering and Design	03/02/2017	03/11/2020																												
			Land																											
Material	07/15/2017	05/19/2020																												
			Construction																											
Construction	10/26/2017	07/10/2020																												
			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			

1765 Line 115-kV Structure Replacement Project Correlation Table
(West Side substation - Berlin 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-19-TCA-96	134	n/a	n/a	Replace 43 wood 115-kV structures with light-duty steel pole structures, including hardware, insulators, and guys.	Per PAC Presentation 10/17/2018	\$ 13,122	
				SUBTOTAL		\$ 13,122	\$ -