

August 13, 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-46      1772 115kV Line Structure Replacements (Pratt and Whitney substation – Haddam 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: Shaun Moran

Company Name: Eversource Energy

Address 1: 247 Station Drive

Address 2: Westwood, MA 02090

City, State, Zip: 781-441-8328

Contact Phone #: [shaun.moran@eversource.com](mailto:shaun.moran@eversource.com)

Email Address: [shaun.moran@eversource.com](mailto:shaun.moran@eversource.com)

RSP Project ID # or Asset Condition ID #: 139

Is Project related to CIP-14: Yes ☐ No ☒

Application #: ES-19-TCA-46

Date: Aug-19

2. Project Description:

In Service Date: Dec-20

a. **High Level Project Details:**

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

**Project Location** (State only):

State: CT

County: Hartford

b. **Summary of PTF-related work for Project:**

Replace 38 wood structures on the 1772 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.

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 ☒

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

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 remedies 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	\$10.328
a. Total Proposed PTF Cost of this Project (\$M):	\$10.328
b. Breakdown of Requested PTF Costs associated with this Project (\$M):	\$10.328
c. Breakdown of Requested Pool-Supported PTF Cost associated with this Project (\$M): (Consistent with Table 1 and Appendix D of this Procedure)	
Material	\$1.614
Labor	\$6.595
ROW	\$0.000
Engineering/Permitting/Indirects	\$1.495
Escalation	\$0.000
AFUDC (or equivalent)	\$0.219
Contingency	\$0.405
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.	\$0.00
a. Description of Proposed PTF Cost introduced as a result of local, state or other regulatory/legislative requirements as defined in question 8 above.	\$0.00

11. All other Project Costs not captured in PTF Costs (8) or Non-PTF Costs (9) (\$M) associated with this Project:

\$0.00
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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.

			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	07/30/2018	08/01/2019																																
			Engineering																															
Engineering and Design	07/30/2018	09/01/2019																																
			Land																															
Material (TMC721)	07/30/2018	10/30/2019																																
			Construction																															
Construction (TMC721)	12/01/2019	12/31/2020																																
			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							

1772 Line 115-kV Structure Replacement Project (Pratt and Whitney substation - Haddam substation)  
Correlation Table

<u>TCA</u> <u>Item</u>	<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>ICA Application:</u> PTF Estimate		<u>Non-PTF</u> Estimate
ES-19-TCA-46	139	n/a	n/a	Replace 38 wood 115-kV structures with light-duty steel pole structures, including hardware, insulators, and guys.	Per PAC Presentation 10/17/2018	\$	10,328	\$
				SUBTOTAL		\$	10,328	\$