

Shaun Moran
Transmission System Planning
phone: 781-441-8328
email: shaun.moran@eversource.com

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-81 1766 115-kV Line Structure Replacement Project (Westside
substation – Dooley 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			
I. 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 Email Address:	Application #: ES-19-TCA-81 Date: Sep-19		
RSP Project ID # or Asset Condition ID #: 135 Is Project related to CIP-14: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		In Service Date: Jun-18	
2. Project Description:			
a. High Level Project Details:			
Project Name (If no formal name, then Substation Upgrade, Line Upgrade, etc. are acceptable): 1766 115-kV Line Structure Replacement Project (Westside substation - Dooley substation)			
Project Location (State only): CT		County: Middlesex	
b. Summary of PTF-related work for Project: Replace 21 wood structures on the 1766 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 <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"/> 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 <input checked="" type="checkbox"/>			
b. Economic <input type="checkbox"/>			
c. Service to new load <input type="checkbox"/>			
d. New generator interconnection <input type="checkbox"/>			
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.)

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

Labor

ROW

Engineering/Permitting/Indirects

Escalation

AFUDC (or equivalent)

Contingency

d. Generator Supported PTF Costs* (\$M):

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: 2018

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 #: 135

Project Name: 1766 115-kV Line - Structure Replacement Project

Date: Sep-19

1. Project Scope Summary

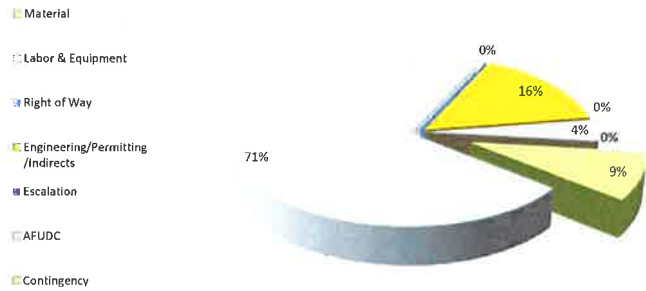
Transmission Line Maintenance has identified 21 wood structures on the 1766 Line (Westside substation – Dooley substation) that are in need of replacement through the use of foot and aerial patrols. The structure have deficiencies such as: woodpecker damage, rot, cracks and deteriorated steel mechanical connections.

2. Project Cost Summary

(\$1,000s)

2.1. Project Cost Summary

Cost Category	PTF	Non-PTF	Total
Material	\$ 488	\$ -	\$ 488
Labor & Equipment	\$ 3,870	\$ -	\$ 3,870
Right of Way	\$ -	\$ -	\$ -
Engineering/Permitting /Indirects	\$ 843	\$ -	\$ 843
Escalation	\$ -	\$ -	\$ -
AFUDC	\$ 225	\$ -	\$ 225
Contingency	\$ -	\$ -	\$ -
Total Project Cost	\$ 5,426	\$ -	\$ 5,426



2.2 Detailed Cost Summary By Project Element

	Material	Labor & Equipment	Right of Way	Engineering/ Permitting/ Indirects	Escalation	AFUDC	Contingency	Total	PTF Amount
1766 115-kV Line Structure Replacement Project	488	3,870	0	843	0	225	0	\$ 5,426	\$ 5,426
Total	\$ 488	\$ 3,870		\$ 843	\$ -	\$ 225		\$ 5,426	\$ 5,426

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				
Description			Siting & Permitting																											
Approval and Permits	04/05/2016	01/07/2017																												
			Engineering																											
Engineering and Design	06/03/2016	04/17/2017																												
			Land																											
Material	01/25/2017	04/15/2017																												
			Construction																											
Construction	04/01/2017	05/30/2018																												
			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			

1766 Line 115-kV Structure Replacement Project Correlation Table
(Westside substation - Dooley substation)

<u>TCA Item</u>	<u>RSP: Project ID #</u>	<u>Reliability Issues Requiring Action</u>	<u>Study:</u>	<u>PPA No.</u>	<u>PPA Application: Preferred Solution Description</u>	<u>PAC/RC Meeting: Presentation Reference</u>	<u>TCA Application (\$1,000s):</u>	
							<u>PTF Estimate</u>	<u>Non-PTF Estimate</u>
ES-19-TCA-81	135	n/a	n/a	n/a	Replace 21 wood 115-kV structures with light-duty steel pole structures, including hardware, insulators, and guys.	Per PAC Presentation 10/17/2018	\$ 5,426	
					SUBTOTAL		\$ 5,426	\$ -