

56 Prospect Street Hartford, CT 06103

David J. Burnham Eversource ISO Policy and Economic Analysis phone: 860-728-4506

email: david.burnham@eversource.com

October 7, 2021

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-21-TCA-48 1751 115-kV Line Wood Pole Structure Replacement Project (NW Hartford substation – Bloomfield 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,

David J. Burnham

David J. Burnham

cc: M. Drzewianowski

		TCA	Attachment B Application Form			
1. Applicant:			Application #:	ES-21-TCA-48	Date:	Oct-21
Contact Name:		David J. Burnham				
Company Name: Address 1:		Eversource Energy Service Company				
Address 1: Address 2:		56 Prospect Street	DCD Duringt ID #			
City, State, Zip		Hartford CT 06102	RSP Project ID # or	TBD		
Contact Phone #		Hartford, CT 06103 860-728-4506	Asset Condition ID # Is Project related to CIP-14	IBD	-	
Email Address		david.burnham@eversource.com	Yes No	X		
Linaii Address		<u>david.bdrillalif@eversource.com</u>	103	Λ		
2. Project Description:					In Service Date:	Jun-22
J I		High Lavel Ducient Datails				3011 22
	a.	High Level Project Details:				
				1751 115 LAV I ima A	Vood Dolo Stanotuno Donlo con	nanta (NW
		Project Name (If no formal name, then Substation Upgrade, Line V	Ungrade, etc. are acceptable):		Wood Pole Structure Replacen n - Bloomfield substation)	nents (N W
		Project Location (State only): State	1 ,	County:	Hartford	
		•		County.	Hartioru	
	b.	Summary of PTF-related work for Project:				
		place 81 wood structures and one (1) removal on the 1751 115	5-kV Line with steel pole structures to	mitigate deficiencies such a	s: woodpecker damage, rot,	cracks and
	de	teriorated steel mechanical connections.				
	Ci.	and project cost details will be known following closeout of all n	rainct work ardors			
	ГП	nal project cost details will be known following closeout of all p	roject work orders.			
	c.	Summary of Non-PTF-related work for Project:				
Was a transmission Pro	pose	d Plan Application required for this work?	Yes No	X	PPA Number: n/a	
4. Has a transmission Pro	pose	d Plan Application been approved?	Yes No	N/A X	Approval Date:	
If yes, attach a copy and	d ref	erence Proposed Plan Application # and approval date.	(Please check only one)			
Need For Project:						
5. Need Based On (Check	c all (Categories that apply):				
	a.	Reliability	v			
		•				
	b.	Economic				
	c.	Service to new load				
	d.	New generator interconnection	Πİ			
		Generator Proposed Plan Application Number				
		Generator Proposed Plan Application Date	-			
		Generator i roposed i tan Application Date	Page 1			

ISO-NE Public

	(Attach copy of cover letter & Generator Proposed Plan Application)
e.	Public Policy Transmission Upgrade (PPTU)
f.	Market Efficiency Transmission Upgrade (METU)
g.	Asset Condition X
h.	Other (specify in line 6)
	otion of the need for this Project. Intation relative to the need for this Project.)
	ures remediates the potential for structure failures due to asset condition vulnerabilities. To ensure the continued operability of this line segment, the identified ection need to be replaced.

Cost of Project:	
7. Total Project Cost (\$\(\frac{\mathbb{M}}{M}\) equals PTF + Non-PTF + all other Project Costs:	\$28.794
8. Total Proposed PTF Costs	
a. Total Proposed PTF Cost of this Project (\$M):	\$28.794
b. Requested Pool-Supported PTF Costs associated with this Project (\$M):	\$28.794
 c. Breakdown of Requested Pool-Supported PTF Cost associated with this Project (\$M): (Consistent with Table 1 and Appendix D of this Procedure) 	
Material	\$3.953
Labor	\$16.598
ROW	\$0.000
Engineering/Permitting/Indirects	\$3.782
Escalation	\$2.868
AFUDC (or equivalent)	\$0.690
Contingency	\$0.903
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
 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:	
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 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.
1/.	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 Energy Service Company

RSP Project #: TBD

Project Name: 1751 115-kV Line Wood Pole Structure

Replacement Project (NH Hartford substation -Bloomfield substation) Date: Oct-21

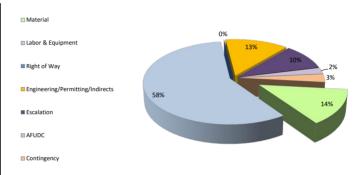
1. Project Scope Summary

Replace 81 wood structures with steel pole structures and one (1) removal on the 1751 115-kV Line (NW Hartford substation - Bloomfield substation) as the result of foot and aerial patrols. The structures have deficiencies such as woodpecker damage, insect damage, rot, cracks and deteriorated steel mechanical connections.

2. Project Cost Summary

(\$M)

2.1. Project Cost Summary												
Cost Category	PTF		Non-P	ΓF	Tota	il						
Material	\$	3.953	\$	-	\$	3.953						
Labor & Equipment	\$	16.598	\$	-	\$	16.598						
Right of Way	\$	-	\$	-	\$	-						
Engineering/Permitting/Indirects	\$	3.782	\$	-	\$	3.782						
Escalation	\$	2.868	\$	-	\$	2.868						
AFUDC	\$	0.690	\$	-	\$	0.690						
Contingency	\$	0.903	\$	-	\$	0.903						
Total Project Cost	\$	28.794	\$		\$	28.794						



2.2 Detailed Cost Summary By Project Element														
	Material	Labor & Equipment	Right of Way	Engineering/ Permitting/ Indirects	Escalation	AFUDC	Contingency	Total	PTF Amount					
1751 115-kV Line Wood Pole Structure Replacement Project (NW Hartford substation - Bloomfield substation)	\$ 3.953	\$ 16.598	\$ -	\$ 3.782	\$ 2.868	\$ 0.690	\$ 0.903	\$ 28.794	\$ 28.794					
Total	\$ 3.953	\$ 16.598	\$ -	\$ 3.782	\$ 2.868	\$ 0.690	\$ 0.903	\$ 28.794	\$ 28.794					

3. Project Milestone Schedule

				20	2016		2017		2017		2018				2019					2020			2021				20	022	
			Qtr1	Qtr2	Qtr3 Q	tr4 Qtr1			tr4 C				tr4 Q	tr1 (Qtr4	Qtr1			Qtr4	Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	: Qtr	3 Q
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Approval and Permits	06/18/2021	05/01/2022										Ш		Ш										•			•		\Box
															Ш	Ш													Ш
			Er	ngine	ering																_								
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Engineering and Design	02/18/2021	12/31/2021												Ш	Ш	Ш						•			-			Ш	Ш
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			La	nd																									
														Ш	Ш	Ш												Ш	Ш
Material	04/05/2021	11/15/2021												Щ									1						Ш
									Ш				Ш		Ш					Ш	Ш		Ш				Ш		Ш
			Co	nsti	ruction	1																							
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Construction	10/15/2021	06/30/2022				Ш	Ш		Ш		Ш	Ш	Ш	Ш	Ш						Ш	Ш	Ш		•		-	*	Ш
						Ш	Ш		Ш				Ш	Ш	Ш	Ш				Ш		Ш					Ш	Ш	Ш
			Qtr1	Qtr2	Qtr3 Q	tr4 Qtr1	Qtr2	Qtr3	tr4 C	Qtr1 Q	tr2 Q	tr3 Q1	tr4 Q	tr1 0	Qtr2 0	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	: Qtr	3 Q
				20	116		20	17	Т		2018	3	П		201	9			20	20			20	21			20	022	

1751 115-kV Structure Replacement Project Correlation Table (NW Hartford substation - Bloomfield substation)

TCA <u>Item</u>	<u>RSP:</u> Project ID #				PAC/RC Meeting: Presentation Reference	TCA Applica PTF Estimate	tion (\$1,000s): Non-PTF <u>Estimate</u>
ES-21-TCA-48	<u>TBD</u>	n/a	n/a	Replace 81 wood 115-kV structures with light-duty steel pole structures, including hardware, insulators, and guys.	Per PAC Presentation 06/16/2021	\$ 28.794 \$ 28.794	\$ -