

56 Prospect Street Hartford, CT 06103

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

email: david.burnham@eversource.com

March 14, 2022

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-22-TCA-14 V191 115-kV Line laminated wood structure replacements (Bedford substation to North Merrimack 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

		<u>achment B</u> plication Form			
Applicant:     Contact Name:	David J. Burnham	Application #:	ES-22-TCA-14	Date:M	1ar-22
Company Name:	Eversource Energy Service Company	<u> </u>			
Address 1:	56 Prospect Street	<del></del>			
Address 2:	30 Prospect Street	RSP Project ID # or			
City, State, Zip	Hartford, CT 06103	Asset Condition ID #	TBD		
Contact Phone #	860-728-4506	Is Project related to CIP-14			
Email Address	david.burnham@eversource.com	Yes No	X		
	advanceang oversome				
2. Project Description:				In Service Date: D	ec-22
	a. High Level Project Details:			_	
	a. High Level 110 jeet Dealis.				$\overline{}$
			V101 115-bV I inc I	aminated Wood Structure Replacem	onte
	Project Name ( If no formal name, then Substation Upgrade, Line Upgr	rade, etc. are acceptable):		- North Merrimack substation)	circs
	Project Location (State only): State:	NH	County:	Hillsborough	
	b. Summary of PTF-related work for Project:				
	b. Summary of FTF-related work for Froject.				
	This project will replace 41 laminated wood structures with steel stru of foot and aerial patrols and potential integrity issues found during r mitigate deficiencies such as: woodpecker damage, insect damage, refinal project cost details will be known following closeout of all project.  Summary of Non-PTF-related work for Project:	ecent laminated wood structure repl ot, cracks, and deteriorated steel med	acement projects. These		
4. Has a transmission Pro	oposed Plan Application required for this work? posed Plan Application been approved?	Yes No	X N/A X	PPA Number: n/a Approval Date: n/a	
If yes, attach a copy an	d reference Proposed Plan Application # and approval date.	(Please check only one)			
·	a. Reliability b. Economic c. Service to new load				
	d. New generator interconnection	Page 1			

Page 1 ISO-NE Public

July 7,2017

	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)	П	
f.	Market Efficiency Transmission Upgrade (METU)		
g.	Asset Condition	X	
h.	Other (specify in line 6)		
	tion of the need for this Project. ntation relative to the need for this Project.)		
Replacing these structu	ires remediates the potential for structure failures due to asset con	dition vulnerabilities. To ensure the continued operability of t	this line segment, the identified
structures in this line se	ection need to be replaced.		

Cost of Project:		
7. Total Project Cost (\$\(\frac{\mathbb{M}}{M}\) equals PTF + Non-PTF + all other Project Costs:	\$10.114	
8. Total Proposed PTF Costs		<del></del>
a. Total Proposed PTF Cost of this Project (\$M):	\$10.114	
b. Requested Pool-Supported PTF Costs associated with this Project (\$M):	\$10.114	<del></del>
<ul> <li>c. Breakdown of Requested Pool-Supported PTF Cost associated with this Project (\$M): (Consistent with Table 1 and Appendix D of this Procedure)</li> </ul>		
Material	\$0.700	
Labor	\$7.099	<u></u>
ROW	\$0.000	
Engineering/Permitting/Indirects	\$0.932	
Escalation	\$0.219	
AFUDC (or equivalent)	\$0.080	<u></u>
Contingency	\$1.084	<u></u>
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	
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.	\$0.000	<u> </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:	\$0.000	<u> </u>
12. Total PTF Cost based on: (check one)  Actual Costs  OR  Estimated Costs*  X		
13. Valuation Year(s) of dollar amounts submitted above: 2022		
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. Describ	be the major transmission alternatives, and their costs consistent with the breakdown provided in item 7 of this Application, that were considered. Provided an
	tion why the preferred alternative was selected. e available documentation relative to the major transmission alternatives analysis and selection.)
	native:
	native:  Othing but for the reasons stated in 6 above is not acceptable.
	ce/Repair only deteriorated components on structures. This alternative does not comprehensively mitigate aged structures/components, does not fall into Eversource's "best-practice",
1	s not an economical alternative.
115-k	rred: Field inspections and evidence from previous asset condition projects have indicated a significant amount of degradation and decreased load carrying capacity of laminated wood V structures (many of the poles show signs of decay, woodpecker and insect damage, rot, and deterioration). Replacing the structures resolves multiple structural/hardware issues and
suppo	orts safe and reliable operation of the transmission line.
17 Hag ata	te 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.
	the and local string been completed? If yes, explain the string process and any provisions that were made during string, provide docket or string reference numbers.  The explain when siting is expected to be completed and any provisions that have been agreed to.
,	
No unu	sual Siting or permitting was required for this project.

<sup>\*</sup> Pool-Supported PTF costs were determined pursuant to Schedule 11 of Section II of the Tariff.

### **PROJECT COST ESTIMATE & SCHEDULE SHEET**

Transmission Owner: Public Service Company of New Hampshire

RSP Project #: TBD

Project Name: V191 115-kV Line Laminated Wood Structure Replacements (Bedford substation - North Merrimack substation)

Date: Mar-22

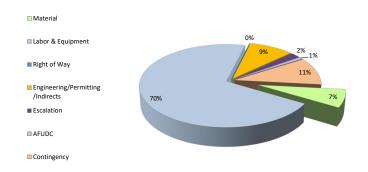
## 1. Project Scope Summary

This project will replace 41 laminated wood structures with steel structures on the V191 115-kV Line (Bedford substation - North Merrimack substation) as the result of foot and aerial patrols and potential integrity issues found during recent laminated wood structure replacement projects. These structures are being replaced to mitigate deficiencies such as: woodpecker damage, insect damage, rot, cracks, and deteriorated steel mechanics.

#### 2. Project Cost Summary

(\$M)

2.1. Project	Cost S	ummary				
Cost Category	PTF		Non-F	TF	Tota	ı
Material	\$	0.700	\$	-	\$	0.700
Labor & Equipment	\$	7.099	\$	-	\$	7.099
Right of Way	\$	-	\$	-	\$	-
Engineering/Permitting /Indirects	\$	0.932	\$	-	\$	0.932
Escalation	\$	0.219	\$	-	\$	0.219
AFUDC	\$	0.080	\$	-	\$	0.080
Contingency	\$	1.084	\$	-	\$	1.084
Total Project Cost	\$	10.114	\$		\$	10.114



	2.2 Detailed Cost Summary By Project Element														
	Materia	I	Labor & Equipment	Right of Way	Engineering/ Permitting/ Indire	cts	Escalation	scalation AFUDC		Contingency	Total	PTF Amount			
V191 115-kV Line Laminated Wood Structure															
Replacements (Bedford substation - North	\$ 0	700	\$ 7.099	\$ -	\$ 0.9	32	\$ 0.219	\$	0.080	\$ 1.084	\$ 10.114	\$ 10.114			
Merrimack substation)															
Total	\$ 0	700	\$ 7.099	\$ -	\$ 0.93	32	\$ 0.219	\$	0.080	\$ 1.084	\$ 10.114	\$ 10.114			

#### 3. Project Milestone Schedule

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Description	Start	Complete	Si	ting	& P	ermit	tting																							
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Approval and Permits	9/1/2021	6/30/2022																										-		
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Engineering and Design	9/30/2021	2/14/2022																									+			
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Material	1/6/2022	6/14/2022																									-	-		
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			C	onst	ructi	on																			•					
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Construction	3/28/2022	12/31/2022																									Π,			$\rightarrow$
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			Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2 (	Qtr3 C	tr4 C	Qtr1 C	Qtr2 C	Qtr3 C	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtra	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4
				20	16			201	7			201	8			20	19			2	020			20	21			202	22	

# V191 115-kV Line Laminated Wood Structure Replcements Project Correlation Table (Bedford substation - North Merrimack substation)

TCA <u>Item</u>	<u>RSP:</u> Project ID #	Study: Reliability Issues Requiring <u>Action</u>	PPA No.	PPA Application: Preferred Solution <u>Description</u>	PAC/RC Meeting: Presentation Reference	TCA Applica PTF Estimate	tion (\$1,000s): Non-PTF <u>Estimate</u>
ES-22-TCA-14	<u>TBD</u>	n/a	n/a	Replace 41 115-kV laminated wood structures with light-duty steel pole structures, including hardware, insulators, and guys.	Per PAC Presentation 10/20/2021	\$ 10.114 \$ 10.114	\$ -