

56 Prospect Street Hartford, CT 06103

David J. Burnham Eversource ISO Policy and Economic Analysis phone: 860-728-4506 email: david.burnham@eversource.com

December 16, 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-59 NH Laminated Wood Structure Replacement Program Phase II -R187 115-kV Line (Mammoth Road substation – Scobie Pond 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

1. Applicant: Contact Name: Company Name: Address 1: Address 2: City, State, Zip Contact Phone # Email Address	David J. Burnham Eversource Energy Service Company 56 Prospect Street Hartford, CT 06103 860-728-4506 david.burnham@eversource.com	Asset Cond	Project ID # or	ES-21-TCA-59	Date:	De
Contact Name: Company Name: Address 1: Address 2: City, State, Zip Contact Phone # Email Address	Eversource Energy Service Company 56 Prospect Street Hartford, CT 06103 860-728-4506	RSP	Project ID # or		·	
Address 1: Address 2: City, State, Zip Contact Phone # Email Address	56 Prospect Street Hartford, CT 06103 860-728-4506	Asset Cond				
Address 2: City, State, Zip Contact Phone # Email Address	56 Prospect Street Hartford, CT 06103 860-728-4506	Asset Cond				
City, State, Zip Contact Phone # Email Address	860-728-4506	Asset Cond				
Contact Phone # Email Address	860-728-4506					
Email Address			ition ID #	TBD		
	david humham@eversourco.com	Is Projec	t related to CIP-14			
2 Desired Descriptions	uavia.purmani@eversource.com	Yes	No	X		
2. Project Description:					In Service Date:	De
a.	High Level Project Details:					
	Project Name ( If no formal name, then Substation Upgrade, Lin	ne Upgrade, etc. are acc	ceptable):		od Structure Replacement Prog -kV Line (Mammoth Road sub tion)	
	Project Location (State only): St	tate:	NH	County:	Rockingham	
b.	Summary of PTF-related work for Project:					
с.	Summary of Non-PTF-related work for Project:					
4. Has a transmission Propos	sed Plan Application required for this work? sed Plan Application been approved? eference Proposed Plan Application # and approval date.	Yes Yes (Please che	No No eck only one)	X N/A X	PPA Number: <u>n/a</u> Approval Date:	
eed For Project:						
5. Need Based On (Check al	l Categories that apply):					
	Reliability		Χ			
a.						
a. b.	Economic					
b. c.	Service to new load					
b.						

	(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)
	ription of the need for this Project. nentation relative to the need for this Project. )
	ctures 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	Pro	iec	t:

7. Total Project Cost (\$ <u>M</u> ) equals PTF + Non-PTF + all other Project Costs:	\$7.541	
8. Total Proposed PTF Costs		-
a. Total Proposed PTF Cost of this Project (\$M):	\$7.541	
b. Requested Pool-Supported PTF Costs associated with this Project (\$M):	\$7.541	-
c. Breakdown of Requested Pool-Supported PTF Cost associated with this Project (\$M):		-
(Consistent with Table 1 and Appendix D of this Procedure)	¢1 109	
Material	\$1.198	-
Labor	\$4.840	-
ROW	\$0.000	-
Engineering/Permitting/Indirects	\$1.313	-
Escalation	\$0.000	-
AFUDC (or equivalent)	\$0.190	-
Contingency	\$0.000	-
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	_
a. Description of Proposed PTF Cost introduced as a result of local, state or other regulatory/legislative requirements as defined in question 8 above.		
<ol> <li>All other Project Costs not captured in PTF Costs (8) or Non-PTF Costs (9) (\$M) associated with this Project:</li> </ol>	\$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:2021		
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.

- Replace/Repair only deteriorated components on structures: This alternative does not comprehensively mitigate aged structures/components, does not fall into Eversource's "best-practice" and is not an economical alternative.

<u>Preferred:</u> Field Inspections and evidence from previous asset condition projects have indicated a significant amount of degradation and decreased load carrying capacity of laminated wood 115-kV 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 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: Public Service Company of New Hampshire

RSP Project #: TBD

Project Name: Laminated Wood Structure Replacement Program Phase II- Line R187 NH 115kV (Mammoth Road Substation - Scobie Pond Sunstation)

Date: Dec-21

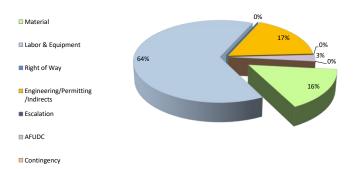
### 1. Project Scope Summary

This project will replace 31 structures on the R187 115-kV Line (Mammoth Road Substation - Scobie Pond Substation) as a result of foot and aerial patrols and the potential integrity issues found during recent laminated wood structure replacement projetcs. These strucutres are being replaced to mitigate deficiencies such as: woodpecker and insect damage, rot, cracks and deteriorated steel mechanics.

# 2. Project Cost Summary

(\$M)

2.1	2.1. Project Cost Summary													
Cost Category	PTF		Non-PT	F	Total									
Material	\$	1.198	\$	-	\$	1.198								
Labor & Equipment	\$	4.840	\$	-	\$	4.840								
Right of Way	\$	-	\$	-	\$	-								
Engineering/Permitting /Indirects	\$	1.313	\$	-	\$	1.313								
Escalation	\$		\$	-	\$	-								
AFUDC	\$	0.190	\$	-	\$	0.190								
Contingency	\$	-	\$	-	\$	-								
Total Project Cost	\$	7.541	\$	-	\$	7.541								



	2.2 Detailed Cost Summary By Project Element															
	М	aterial		bor & ipment	Right of Way	Er Perm	ngineering/ itting/ Indirects	Escalation		AFUDC	Cor	ntingency		Total	PTF Amo	unt
Laminated Wood Structure Replacement Program Phase II - Line R187 NH 115-kV (Mammoth Road substation - Scobie Road	\$	1.198	\$	4.840		\$	1.313		\$	0.190	\$	-	\$	7.541	\$	7.541
Totatation)	\$	1.198	\$	4.840	\$ -	\$	1.313	\$ -	\$	0.190	\$	-	\$	7.541		7.541

#### 3. Project Milestone Schedule

				2	2016			2	017				201	8			20	)19			2	020			20	)21			20	22	
			Qtr1	Qtr.	2 Qtr	3 Qtr4	1 Qtr	1 Qtr.	2 Qti	r3 Qt	r4 Q	ttr1 C	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	2 Qtr	3 Qtr4	Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4
Description	Start	Complete	Si	ting	y & F	Perm	ittin	g																							
Approval and Permits	8/16/2021	6/1/2022																								-			-		
			Er	ngir	neeri	ing																									
																														L	
Engineering and Design	7/19/2021	10/15/2021			_		_		_																	-	<b>*</b>				
			C	ons	truc	tion		_															_								
					_				_																				Ш		
Material	7/1/2021	6/1/2022																													
																													Ш		
			C	ons	truc	tion																									
					_	_		_	_													_	_	_					LШ		
Construction	1/15/2022	12/15/2022	_		_	_	-		_	4											ļ		_						F		+
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			Qtr1	Qtr.	2 Qtr	3 Qtr4	1 Qtr	1 Qtr.	2 Qti	r3 Qt	r4 Q	ttr1 C	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	2 Qtr.	3 Qtr4	L Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4

TCA Item	<u>RSP:</u> Project ID #	<u>Study:</u> Reliability Issues Requiring <u>Action</u>	<u> </u>	PPA Application: Preferred Solution <u>Description</u>	PAC/RC Meeting: Presentation <u>Reference</u>	<u>TCA Applie</u> PTF <u>Estimate</u>	<u>cation (\$Ms):</u> Non-PTF <u>Estimate</u>
ES-21-TCA-59	<u>TBD</u>	n/a	n/a	Replace 31 laminated wood 115-kV structures with light- duty steel pole structures, including hardware, insulators, and guys and install lightning arrestors and counter poise.	Per PAC Presentation 10/20/2021	\$ 7.541 \$ 7.541	\$ -