

56 Prospect Street Hartford, CT 06103

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

email: david.burnham@eversource.com

August 2, 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-37 240-510 115-kV Line Structure Replacement Project (Framingham substation to Baker 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

		TC		hment B lication Form			
Applicant: Contact Name:		David J. Burnham		Application #:	ES-21-TCA-37	Date:	Aug-21
Company Name:		Eversource Energy Service Company		_			
Address 1:		56 Prospect Street		_			
Address 2:				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		
2. Project Description:						In Service Date:	Nov-21
	a.	High Level Project Details:					
		Project Name (If no formal name, then Substation Upgrade, Li	ne Upgrad	de, etc. are acceptable):		ne Structure Replacement Project tation to Baker substation)	
		Project Location (State only): Se	tate:	MA	County:	Norfolk, Middlesex	
	b.	Summary of PTF-related work for Project:					
		eel mechanical connections. nal project cost details will be known following closeout of a Summary of Non-PTF-related work for Project:	all project	t work orders.			
4. Has a transmission Pro	pose	ed Plan Application required for this work? d Plan Application been approved? erence Proposed Plan Application # and approval date.		Yes No Yes No (Please check only one)	X N/A X	PPA Number: n/a Approval Date:	
Need For Project:							
5. Need Based On (Chec	k all						
	a.	Reliability		X			
	b.	Economic					
	c.	Service to new load					
	d.	New generator interconnection					
		Generator Proposed Plan Application Number					
		Generator Proposed Plan Application Date					
		(Attach copy of cover letter & Generator Proposed Plan Applicat	tion)				
		- **		age 1			

ISO-NE Public

e. Public Policy Transmission Upgrade (PPTU)
f. Market Efficiency Transmission Upgrade (METU)
g. Asset Condition X
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:	\$11.636	
8. Total Proposed PTF Costs		_
a. Total Proposed PTF Cost of this Project (\$M):	\$11.636	
b. Requested Pool-Supported PTF Costs associated with this Project (\$M):	\$11.636	_
c. Breakdown of Requested Pool-Supported PTF Cost associated with this Project (\$M): (Consistent with Table 1 and Appendix D of this Procedure)		
Material	\$1.952	
Labor	\$5.568	
ROW	\$0.000	
Engineering/Permitting/Indirects	\$2.800	
Escalation	\$0.131	
AFUDC (or equivalent)	\$0.236	<u>_</u>
Contingency	\$1.081	<u>_</u>
d. Generator Supported PTF Costs* (\$M):	\$0.000	<u> </u>
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.		
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.		
14. In applicable, explain flow the cost of collinion facilities were anocated between FTF and Non-FTF.		
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 sh woodpecker damage, rot and deterioration). Replacing the structures resolves multiple structural/hardware issues and supports safe and reliable operation of the tra	
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.	
o 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: NSTAR Electric Company RSP Project #: TBD

Project Name: 240-510 115-kV Line (Framingham substation to Date: Aug-21

Baker substation)

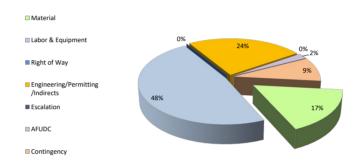
1. Project Scope Summary

Transmission Line Maintenanance has identified 48 wood structures on 240-510 115-kV Line (Framingham Tap to Baker substation) that are in need of replacement with steel poles as the result of foot and aerial patrols. The structures have deficiencies such as: woodpecker damage, rot, cracks and deteriorated steel mechanics.

2. Project Cost Summary

(\$M)

2.1. Project Cost Summary														
Cost Category	PTF		Non-P	TF	Tota	ı								
Material	\$	1.952	\$	-	\$	1.952								
Labor & Equipment	\$	5.568	\$	-	\$	5.568								
Right of Way	\$	-	\$	-	\$	-								
Engineering/Permitting /Indirects	\$	2.800	\$	-	\$	2.800								
Escalation	\$	-	\$	-	\$	-								
AFUDC	\$	0.236	\$	-	\$	0.236								
Contingency	\$	1.081	\$	-	\$	1.081								
Total Project Cost	\$	11.636	\$	-	\$	11.636								



	2.2 Detailed Cost Summary By Project Element														
	Material	Labor & Equipment	Right of Way	Engineering/ Permitting/ Indirects	Escalation	Escalation AFUDC		Total	PTF Amount						
240-510 115-kV Line Structure Replacement Project (Framingham substation to Baker substation)	\$ 1.952	\$ 5.568	\$ -	\$ 2.800	\$ -	\$ 0.236	\$ 1.081	\$ 11.636	\$ 11.636						
Total	\$ 1.952	\$ 5.568	\$ -	\$ 2.800	\$ -	\$ 0.236	\$ 1.081	\$ 11.636	\$ 11.636						

3. Project Milestone Schedule

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240-510 115-kV Structure Replacement Project Correlation Table (Framingham substation - Baker substation)

TCA <u>Item</u>	RSP: Project ID #	<u>Study:</u> Reliability Issues Requiring <u>Action</u>	PPA No.	PPA Application: Preferred Solution <u>Description</u>	PAC/RC Meeting: Presentation Reference	TCA Applic PTF Estimate	cation (\$Ms): Non-PTF <u>Estimate</u>
ES-21-TCA-37	<u>TBD</u>	n/a	n/a	Replace 48 wood 115-kV structures with light-duty steel pole structures, including hardware, insulators, and guys.	Per PAC Presentation 06/16/2021	\$ 11.636 \$ 11.636	\$ -