

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 30, 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-40 338 345-kV Line Structure Replacements (Woburn substation – NGRID Border)

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>Attachmen</u> TCA Applicatio				
1. Applicant:			Application #:	ES-21-TCA-40	Date:	Aug-21
Contact Name:	David J. Burnham					
Company Name:	Eversource Energy Service Compar	ny				
Address 1:	56 Prospect Street					
Address 2:			RSP Project ID # or			
City, State, Zip	Hartford, CT 06103	<i>P</i>	Asset Condition ID #	253	=	
Contact Phone #	860-728-4506		Is Project related to 0			
Email Address	david.burnham@eversource.com		Yes No	X		
2. Project Description:					In Service Date:	Oct-21
	a. High Level Project Details:					
	Project Name (If no formal name, the	en Substation Upgrade, Line Upgr	ade, etc. are acceptable):	338 345-kV Line St substation - NGRII	tructure Replacement Project (D Border)	Woburn
	Project Location (State only):	State:	MA	County:	Middlesex	
	b. Summary of PTF-related work for Proj	ect:				
	Final project cost details will be known c. Summary of Non-PTF-related work for		ct work orders.			
4. Has a transmission Pro	oposed Plan Application required for this worl posed Plan Application been approved? d reference Proposed Plan Application # and a		Yes No Yes No (Please check only one)		PPA Number: n/a Approval Date:	
Need For Project:	1 11					
5. Need Based On (Chec	c all Categories that apply):					
	a. Reliability		X			
	b. Economic					
	c. Service to new load					
	d. New generator interconnection					
	Generator Proposed Plan Application I Generator Proposed Plan Application I					

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 this line section need to be replaced.
identified structures in	this line section need to be replaced.

Cost of Project:		
7. Total Project Cost (\$\(\frac{\mathbb{M}}{M}\)) equals PTF + Non-PTF + all other Project Costs:	\$9.704	
8. Total Proposed PTF Costs		-
a. Total Proposed PTF Cost of this Project (\$M):	\$9.704	
b. Requested Pool-Supported PTF Costs associated with this Project (\$M):	\$9.704	-
 c. Breakdown of Requested Pool-Supported PTF Cost associated with this Project (\$M): (Consistent with Table 1 and Appendix D of this Procedure) 		
Material	\$1.158	_
Labor	\$5.555	- -
ROW	\$0.000	_
Engineering/Permitting/Indirects	\$2.034	_
Escalation	\$0.000	_
AFUDC (or equivalent)	\$0.197	_
Contingency	\$0.760	_
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.		
15. Does this Project result in a change of existing Non-PTF facilities to PTF?	Yes	No X

16. Describe the major tra	ransmission alternatives, and their costs consistent with the breakdown provided in item 7 of this Application, that were
	d an explanation why the preferred alternative was selected. becomentation relative to the major transmission alternatives analysis and selection.)
Alternative: Do no	nothing but for the reasons stated in 6 above is not acceptable.
	inspections have indicated a significant amount of degradation and decreased load carrying capacity of wood 345-kV structures (many of the poles show podpecker damage, rot and deterioration). Replacing the structures resolves multiple structural/hardware issues and supports safe and reliable operation of line.
7. Has state and local sit	iting been completed? If yes, explain the siting process and any provisions that were made during siting, provide docket or siting
reference numbers. If	If no, then explain when siting is expected to be completed and any provisions that have been agreed to.
No unusual siting or	r 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 #: 253

Project Name: 338 345-kV Line Structure Replacements (Woburn

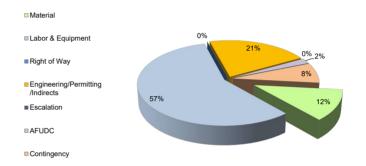
Date: Aug-21 substation - NGRID Border) Estimate Grade:

1. Project Scope Summary

Transmission Line Maintenanance has identified 29 wood structures on 338 345-kV Line (Woburn substation - NGRID Border) that are in need of replacement as the result of aerial and foot patrols. The structures have deficiencies such as: woodpecker damage, rot, cracks and deteriorated steel mechanics.

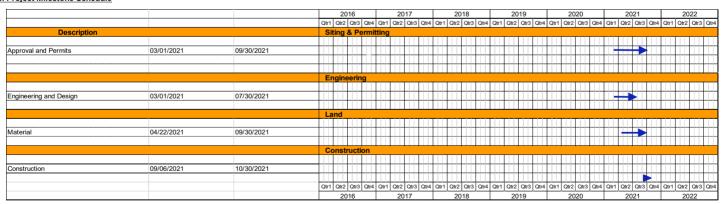
2. Project Cost Summary

2.1. Project Cost Summary								
Cost Category	PTF		Non-F	PTF	Tota	I		
Material	\$	1.158	\$	-	\$	1.158		
Labor & Equipment	\$	5.555	\$	-	\$	5.555		
Right of Way			\$	-	\$	-		
Engineering/Permitting /Indirects	\$	2.034	\$	-	\$	2.034		
Escalation	\$	-	\$	-	\$	-		
AFUDC	\$	0.197	\$	-	\$	0.197		
Contingency	\$	0.760	\$	-	\$	0.760		
Total Project Cost	\$	9.704	\$	-	\$	9.704		



2.2 Detailed Cost Summary By Project Element									
	Material	Labor & Equipment	Right of Way	Engineering/ Permitting/ Indirects	Escalation	AFUDC	Contingency	Total	PTF Amount
338 345-kV Line Structure Replacements (Woburn substation - NGRID Border)	\$ 1.158	\$ 5.555	\$ -	\$ 2.034	\$ -	\$ 0.197	\$ 0.760	\$ 9.704	\$ 9.704
Total	\$ 1.158	\$ 5.555	\$ -	\$ 2.034	\$ -	\$ 0.197	\$ 0.760	\$ 9.704	\$ 9.704

3. Project Milestone Schedule



338 345-kV Line Structure Replacement Project Correlation Table (Woburn substation - NGRID Border)

TCA Item	RSP: Project ID #	<u>Study:</u> Reliability Issues Requiring	PPA No. Preferred Solution		PAC/RC Meeting: Presentation Reference		on (\$Ms): Non-PTF Estimate
		<u>Action</u>	<u>Description</u>		Reference	Estimate	EStimate
ES-21-TCA-40	<u>253</u>	n/a	n/a	Replace 29 wood 345-kV structures with light-duty steel pole structures, including hardware, insulators, and guys.	Per PAC Presentation 01/21/2021	\$ 9.704	-