

56 Prospect Street Hartford, CT 06103

Steven J. Allen Eversource, ISO-NE Coordination phone: 860-728-4536 email: steven.allen@eversource.com

August 2, 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-13 191 115-kV Line Structure and Shield Wire Replacement Project (Auburn St. substation – Kingston 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,

Steven J. Allen

Steven J. Allen

cc: M. Drzewianowski

	T	<u>Attachment B</u> CA Application Fo	rm			
1. Applicant: Contact Name:	Steven J. Allen	A	pplication #:	ES-22-TCA-13	Date:	Aug-22
Company Name:	Eversource Energy Service Company					
Address 1:	56 Prospect Street					
Address 2:			RSP Project ID # or			
City, State, Zip	Hartford, CT 06103	Asse	t Condition ID #	315		
Contact Phone #	860-728-4536		Project related to CIF			
Email Address	steven.allen@eversource.com	Y	es No	Х		
2. Project Description:					In Service Date:	<u>Aug-23</u>
	a. High Level Project Details:					
	Project Name ( If no formal name, then Substation Upg	rade. Line Upgrade. etc	are acceptable):		ructure and Shield Wire Replac bstation - Kingston substation)	ement
	Project Location (State only):	State:	МА	County:	Plymouth	
	b. Summary of PTF-related work for Project:				<b>J</b>	
	Optical Ground Wire (OPGW) due to damage from lightni rot, cracks and deteriorated mechanical connections and Final project cost details will be known following closeout c. Summary of Non-PTF-related work for Project:	overstressing.		ructures have defici		amage,
3. Was a transmission Pro	posed Plan Application required for this work?	Y	es No	Х	PPA Number: n/a	
4. Has a transmission Proj	posed Plan Application been approved?	Ŷ	es No	N/A X	Approval Date: n/a	
If yes, attach a copy and	d reference Proposed Plan Application # and approval date.	(1	lease check only one)			
Need For Project:						
5. Need Based On (Check	all Categories that apply):					
á	a. Reliability		X			
1	b. Economic					
	c. Service to new load					
	d. New generator interconnection					
	Generator Proposed Plan Application Number					
l		Page 1				
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	Generator Proposed Plan Application Date (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)
	on of the need for this Project. Ition relative to the need for this Project. )
	es remediates the potential for structure failures due to asset condition vulnerabilities. Replacing the shield wire remediates the concern with damaged To ensure the continued operability of this line segment, the identified structures and shield wire in this line section need to be replaced.

Cost	of	Proi	iect:

7. Total Project Cost (\$ <u>M</u> ) equals PTF + Non-PTF + all other Project Costs:	\$27.840
8. Total Proposed PTF Costs	
a. Total Proposed PTF Cost of this Project (\$M):	\$27.840
b. Requested Pool-Supported PTF Costs associated with this Project (\$M):	\$27.840
<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	\$3.962
Labor	\$15.785
ROW	\$0.000
Engineering/Permitting/Indirects	\$4.685
Escalation	\$0.000
AFUDC (or equivalent)	\$0.597
Contingency	\$2.811
d. Generator Supported PTF Costs* (\$M):	\$0.000
<ul><li>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.</li><li>9. Total Proposed Non-PTF Cost of this Project (\$M):</li></ul>	\$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	
13. Valuation Year(s) of dollar amounts submitted above: <u>2022</u>	
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

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.)

<u>Alternative</u>: Do nothing but for the reasons stated in 6 above is not acceptable.

Preferred: Field inspections have indicated a significant amount of degradation and decreased 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. If no, then explain when siting is expected to be completed and any provisions that have been agreed to.

No unusual Siting is 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 #: 315

Project Name: 191 115-kV Line Structure and Shield Wire Replacement Project (Auburn St. substation -Kingston substation) Date: Aug-22

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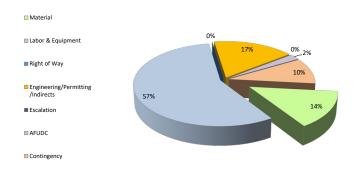
1. Project Scope Summary

This project will replace 88 wood pole structures with steel pole structures on the 191 115-kV Line (Auburn substation - Kingston substation) as the result of foot and aerial patrols. The project will also replace approximately 15.35 miles of one 24 fiber, 0.506" and one 7#9 Alumoweld with new 0.646" 48 fiber Optical Ground Wire (OPGW) due to damage from lightning strikes and corrosion on the line. The structures have deficiencies such as: woodpecker damage, rot, cracks and deteriorated mechanical connections and overstressing.

## 2. Project Cost Summary

(\$M)

2.	1. Project Cost S	ummary				
Cost Category	PTF		Non-PTF	:	Total	
Material	\$	3.962	\$	-	\$	3.962
Labor & Equipment	\$	15.785	\$	-	\$	15.785
Right of Way	\$	-	\$	-	\$	-
Engineering/Permitting /Indirects	\$	4.685	\$	-	\$	4.685
Escalation	\$	-	\$	-	\$	-
AFUDC	\$	0.597	\$	-	\$	0.597
Contingency	\$	2.811	\$	-	\$	2.811
Total Project Cost	\$	27.840	\$	•	\$	27.840



	2.2 Detailed Cost Summary By Project Element									
	Material	Labor & Equipment	Right of Way	Engineering/ Permitting/ Indirects	Escalation	AFUDC	Contingency	Total	PTF Amount	
191 115-kV Line Structure and Shield Wire Replacement Project (Auburn St. substation - Kingston substation)	\$ 3.962	\$ 15.785	\$ -	\$ 4.685	\$ -	\$ 0.597	\$ 2.811	\$ 27.840	\$ 27.840	
Total	\$ 3.962	\$ 15.785	\$-	\$ 4.685	\$-	\$ 0.597	\$ 2.811	\$ 27.840	\$ 27.840	

#### 3. Project Milestone Schedule

			2021 2022 2023 2024 202	25
			Qtr1 Qtr2 Qtr3 Qtr4 Qtr1 Qtr2	Qtr3 Qtr4
Description			Siting & Permitting	
Approval and Permits	12/23/2021	12/29/2022		
			Engineering	
Engineering and Design	1/10/2022	6/27/2023		
			Land	
Material	3/1/2022	6/27/2023		
			Construction	
Construction	8/29/2022	8/30/2023		
			Qtr1         Qtr2         Qtr3         Qtr1         Qtr2         Qtr3         Qtr4         Qtr3 <th< td=""><td>Qtr3 Qtr4</td></th<>	Qtr3 Qtr4
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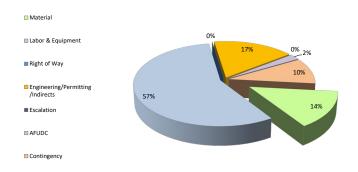
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			2021 2022 2023	2024 2025
			Qtr1 Qtr2 Qtr3 Qtr4 Qtr1 Qtr2 Qtr3 Qtr4 Qtr1 Qtr2 Qtr3 Qtr4 Qt	
Description			Siting & Permitting	
Approval and Permits	11/1/2022	12/29/2022		
			Engineering	
Engineering and Design	9/20/2022	6/27/2023		
			Land	
Material	11/18/2022	6/27/2023		
			Construction	
Construction	7/18/2023	8/30/2023	<u>→</u>	
			Qtr1 Qtr2 Qtr3 Qtr4 Qtr1 Qtr2 Qtr3 Qtr4 Qtr1 Qtr2 Qtr3 Qtr4 Qtr1	
			2021 2022 2023	2024 2025

<u>TCA</u> <u>Item</u>	<u>RSP:</u> Project ID #	<u>Study:</u> Reliability Issues Requiring <u>Action</u>	PPA No.	PPA Application: Preferred Solution <u>Description</u>	PAC/RC Meeting: Presentation <u>Reference</u>	<u>TCA Applica</u> PTF <u>Estimate</u>	<u>tion (\$1,000s):</u> Non-PTF <u>Estimate</u>
ES-22-TCA-13	<u>315</u>	n/a	n/a	Replace 88 wood 115-kV structures with light-duty steel pole structures, including hardware, insulators, and guys. Replace approximately 15.35 miles of existing shield wire with Optical Ground Wire (OPGW).	Per PAC Presentation 12/15/2021	\$ 27.840 \$ 27.840	\$ -