

56 Prospect Street Hartford, CT 06103

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

June 07, 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-29 383 345-kV Line Structure Replacements and PINCO Insulator Replacements & OPGW Project (Millstone substation – Card 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. Application: David J. Burnham				<u>chment B</u> lication Form			
	Contact Name: Company Name: Address 1: Address 2: City, State, Zip Contact Phone #		David J. Burnham Eversource Energy Service Company 56 Prospect Street Hartford, CT 06103 860-728-4506 david.burnham@eversource.com a. High Level Project Details: Project Name (If no formal name, then Substation Upgrade, Line Project Location (State only): Stat b. Summary of PTF-related work for Project: The project will replace 55 wood structures, PINCO Insulators ar substation). The structures have deficiencies such as: woodpect Final project cost details will be known following closeout of all c. summary of Non-PTF-related work for Project: posed Plan Application required for this work? posed Plan Application been approved? reference Proposed Plan Application # and approval date. all Categories that apply): . Reliability . Economic . Service to new load . New generator interconnection Generator Proposed Plan Application Number Generator Proposed Plan Application Number Generator Proposed Plan Application Date	RSP Project ID # or Asset Condition ID # Is Project related to CIP-14	265	Date:	Jun-21
Project Location (State only): State: CT County: New London b. Summary of PTF-related work for Project:	2. Project Description:	a.		de etc are accentable).	Replacement & OP	ructure Replacements PINCO Ir	isulator
4. Has a transmission Proposed Plan Application been approved? Yes No N/A X Approval Date: If yes, attach a copy and reference Proposed Plan Application # and approval date. (Please check only one) N/A X Approval Date: Need For Project: .		Th su Fir	Project Location (State only): State: Summary of PTF-related work for Project:	CT call approximately ten miles of OPG amage, rot, cracks and deteriorated	County:	ine (Millstone substation - Carc	1
5. Need Based On (Check all Categories that apply): X a. Reliability X b. Economic	4. Has a transmission Pro	pose	d Plan Application been approved?	Yes No			
(Attach copy of cover letter & Generator Proposed Plan Application) Page 1	5. Need Based On (Checl	a. b. c.	Reliability Economic Service to new load New generator interconnection Generator Proposed Plan Application Number Generator Proposed Plan Application Date (Attach copy of cover letter & Generator Proposed Plan Application)	X 			

e. f. g. h.	Market Efficiency Transmission Upgrade (METU) Image: Condition Asset Condition X
	ription of the need for this Project. nentation relative to the need for this Project.)
	tures remediates the potential for structure failures due to asset condition vulnerabilities. To ensure the continued operability of this line segment, the identified section need to be replaced.

Cost of Project:

7. Total Project Cost (\$M) equals PTF + Non-PTF + all other Project Costs:	\$16.778	
8. Total Proposed PTF Costs		_
a. Total Proposed PTF Cost of this Project (\$M):	\$16.778	
b. Requested Pool-Supported PTF Costs associated with this Project (\$M):	\$16.778	
c. Breakdown of Requested Pool-Supported PTF Cost associated with this Project (\$M): (Consistent with Table 1 and Appendix D of this Procedure)		
Material	\$2.534	
Labor	\$10.379	
ROW	\$0.000	
Engineering/Permitting/Indirects	\$2.695	
Escalation	\$0.000	
AFUDC (or equivalent)	\$0.777	
Contingency	\$0.393	_
d. Generator Supported PTF Costs* (\$M):		
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	_
 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: 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

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ISO-NE Public

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 load carrying capacity of wood 345-kV structures (many of the poles show signs of decay, woodpecker damage, rot and deterioration). Replacing the structures and PINCO insulators 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: Connecticut Light and Power Company

RSP Project #: 265

Date: Jun-21

Project Name: 383 345-kV Line Structure, PINCO Insulator & OPGW Replacement Project (Millstone substation - Card substation)

1. Project Scope Summary

This project will replace 55 wood pole structures with steel poles, replace PINCO insulators and install approximately ten miles of OPGW on the 383 345-kV Line (Millstone substation - Card substation). The structures have deficiencies such as: woodpecker damage, rot, cracks and deteriorated steel mechanics. The PINCO insulators require replacement due to age and deteriorating conditions.

2. Project Cost Summary

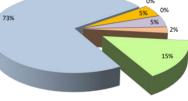
(\$M)

2.1. Project Cost Summary													
Cost Category	F	PTF		Non-PTI		Total							
Material	\$	6	2.534			\$	2.534						
Labor & Equipment	\$	6	10.379			\$	10.379						
Right of Way	\$	6	-			\$	-						
Engineering/Permitting /Indirects	\$	5	2.695			\$	2.695						
Escalation	\$	5	-	\$	-	\$	-						
AFUDC	\$	5	0.777			\$	0.777						
Contingency	\$	6	0.393			\$	0.393						
Total Project Cost	\$	5	16.778	\$		\$	16.778						

Material

Contingency





2.2 Detailed Cost Summary By Project Element														
	Material	Labor & Equipment	Right of Way	Engineering/ Permitting/ Indirects	Escalation	AFUDC	Contingency	Total	PTF Amount					
383 345-kV Line Stucture, PINCO Insulator & OPGW Replacement Project (Millstone substation - Card substation)	\$ 2.5	4 \$ 10.379	ş -	\$ 2.695	\$ -	\$ 0.777	\$ 0.393	\$ 16.788	\$ 16.788					
Total	\$ 2.5	4 \$ 10.379	\$-	\$ 2.695	\$-	\$ 0.777	\$ 0.393	\$ 16.778	\$ 16.778					

3. Project Milestone Schedule

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Description				Siti	nga	& Pe	rmi	tting																									
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Engineering and Design	03/02/2020	09/30/2021																			-												
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Material	12/04/2020	06/03/2021																									•						
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Construction	06/07/2020	12/22/2022		T		T						~~~~		T			TT	- T				-											H
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					201	6			201	7			20	018				201	9			20	20				2021				202	22	_

TCA Item	<u>RSP:</u> Project ID #	<u>Study:</u> Reliability Issues Requiring <u>Action</u>	<u>PPA No.</u>	PA Application: Preferred Solution <u>Description</u>	PAC/RC Meeting: Presentation <u>Reference</u>	<u>TCA Applic</u> PTF <u>Estimate</u>	<u>cation (\$Ms):</u> Non-PTF <u>Estimate</u>
ES-21-TCA-29	<u>265</u>	n/a	n/a	Replace 55 wood 345-kV structures and PINCO insulators with light-duty steel pole structures, including hardware, insulators, and guys; and install approximately 10- miles of OPGW SUBTOTAL	Per PAC Presentation 01/21/2021	\$ 16.778 \$ 16.778	\$ -