

56 Prospect Street Hartford, CT 06103

Steven J. Allen Eversource, ISO-NE Coordination phone: 860-728-4536

email: steven.allen@eversource.com

October 19, 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-38 Greggs Substation Rebuild Project

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

			<u>ment B</u> cation Form			
1. Applicant:			Application #:	ES-22-TCA-38	Date:	Oct-22
Contact Name:	Steven J. Allen		_			
Company Name:	Eversource Energy Service Company					
Address 1:	56 Prospect Street		<u> </u>			
Address 2:			RSP Project ID # or			
City, State, Zip			Asset Condition ID #	TBD		
Contact Phone #			Is Project related to CIP-14			
Email Address	steven.allen@eversource.com		Yes No	X		
2. Project Description:					In Service Date:	Mar-24
	a. High Level Project Details:					
	D. 1. 170 (70 a) 1 a 1 a 1					
	Project Name (If no formal name, then Substat			Greggs Substation I	· ·	
	Project Location (State only):	State:	NH	County:	Hillsborough	
	b. Summary of PTF-related work for Project:					
	Final project cost details will be known following cl	loseout of all project wo	rk orders.			
	c. Summary of Non-PTF-related work for Project:					
3. Was a transmission Pr	roposed Plan Application required for this work?		Yes X No		PPA Number: TBD	
4. Has a transmission Pr	oposed Plan Application been approved?		Yes No	X N/A	Approval Date: TBD	
If yes, attach a copy as	nd reference Proposed Plan Application # and approval dat	te.	(Please check only one)			
Need For Project:						
	ck all Categories that apply):					
	a. Reliability		X			
	b. Economic					
	c. Service to new load					
	d. New generator interconnection					
	Generator Proposed Plan Application Number	Par	σe 1			

July 7,2017

ISO-NE Public

	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)	
6. Provide a narrative description (Include available documental	on of the need for this Project. ation relative to the need for this Project.)	
The existing Greggs substance Foundation deteriorati Rusting of steel members Ground system deterior 115-kV center break di	tation suffers from a substantial number of asset condition issues in the contro tion bers	house and substation yard to include:

Cost of Project:		
7. Total Project Cost (\$\(\frac{\mathbb{M}}{M}\)) equals PTF + Non-PTF + all other Project Costs:	\$72.193	
8. Total Proposed PTF Costs		_
a. Total Proposed PTF Cost of this Project (\$M):	\$72.193	
b. Requested Pool-Supported PTF Costs associated with this Project (\$M):	\$72.193	_
c. Breakdown of Requested Pool-Supported PTF Cost associated with this Project (\$M):		_
(Consistent with Table 1 and Appendix D of this Procedure)		
Material	\$12.439	_
Labor	\$41.074	_
ROW	\$0.000	_
Engineering/Permitting/Indirects	\$14.224	_
Escalation	\$0.000	_
AFUDC (or equivalent)	\$2.279	_
Contingency	\$2.177	_
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):		
), 10m.110p.000 10m.111 cost of mis 110j.000 (4.11)	\$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:2022		
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:
• Replace or repair all known asset condition items - does not meet current ISO PP9 requirements and guidelines for Major Substation Design, a new 58' x 38' control enclosure must be built to accommodate all new protection and control equipment. This option will increase the duration and number of outages required as well as difficulty securing outages will extend construction duration and greatly impact cost.
 Convert existing substation to breaker-and-a-half scheme within existing fence line using gas-insulated substation (GIS) technology - does not meet PP9 guidelines to use air-insulated bus design where possible, requires a new control building, increased duration and number of outages required, and GIS maintenance is more costly and complicated as compared to air-insulated subsations.
<u>Preferred:</u> Build a new breaker-and-a-half air-insulated substation on adjacent land address all project drivers and increases overal system reliability at the lowest cost, meets current ISO PP9 requirements and guidelines for Major Substation Design, and allows room for future expansion and less costly ongoing maintenance.
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 required for this project.
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 $\hbox{* Pool-Supported PTF costs were determined pursuant to Schedule 11 of Section II of the Tariff.}$

PROJECT COST ESTIMATE & SCHEDULE SHEET

Transmission Owner: Public Service Company of New Hampshire

RSP Project #: TBD

Project Name: Greggs Substation Rebuild Project

Date: Oct-22

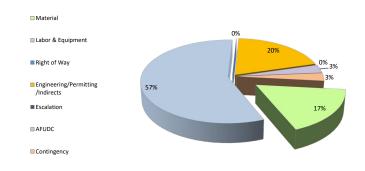
1. Project Scope Summary

This project will build a new 115kV air insulated breaker and a half scheme substation adjacent to the existing Greggs Substation in Goffstown, NH, as well as decommission the existing Greggs substation. The new substation will have four (4) bays, seven (7) line terminals, and include an additional disconnect switch to easily disconnect from the bus and addresses all future expansion needs. The project will include corresponding protection and control scheme upgrades.

2. Project Cost Summary

(\$M)

2.1. Project Cost Summary									
Cost Category	PTF		Non-PT	F	Total	ı			
Material	\$	12.439	\$	-	\$	12.439			
Labor & Equipment	\$	41.074	\$	-	\$	41.074			
Right of Way	\$	-	\$	-	\$	-			
Engineering/Permitting //Indirects	\$	14.224	\$	-	\$	14.224			
Escalation	\$	-	\$	-	\$	-			
AFUDC	\$	2.279	\$	-	\$	2.279			
Contingency	\$	2.177	\$	-	\$	2.177			
Total Project Cost	\$	72.193	\$	-	\$	72.193			



2.2 Detailed Cost Summary By Project Element													
	Material		al Labor & Right of Way Permitting/ Indirect		Escalation AFUDC		Contingency		Total		PTF Amount		
Greggs Substation Rebuild Project	\$	12.439	\$ 41.074	\$ -	\$ 14.224	\$ -	\$	2.279	\$ 2.177	\$	72.193	\$	72.193
Total	\$	12.439	\$ 41.074	\$_	\$ 14.224	_	\$	2.279	\$ 2.177	\$	72.193	\$	72.193

3. Project Milestone Schedule

			2021	2022	2023	2024	2025
			Qtr1 Qtr2 Qtr3 Qtr4	Qtr1 Qtr2 Qtr3 Qtr4	Qtr1 Qtr2 Qtr3 Qtr4	Qtr1 Qtr2 Qtr3 Qtr4	Qtr1 Qtr2 Qtr3 Qtr4
Description			Siting & Per	rmitting			
Approval and Permits	11/17/2021	10/31/2022					
			Engineering	7			
Engineering and Design	9/1/2021	3/31/2022					
						•	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
			Material				
Material	4/1/2021	4/11/2022					
			Construction	n			
Construction	10/19/2022	3/31/2024		 			
			Qtr1 Qtr2 Qtr3 Qtr4	Qtr1 Qtr2 Qtr3 Qtr4	Qtr1 Qtr2 Qtr3 Qtr4	Qtr1 Qtr2 Qtr3 Qtr4	Qtr1 Qtr2 Qtr3 Qtr4
			2021	2022	2023	2024	2025

Greggs Substation Rebuild Project Correlation Table

TCA Item	RSP: Project ID #	<u>Study:</u> Reliability Issues Requiring Action	PPA Application: PPA No. Preferred Solution Description		PAC/RC Meeting: Presentation Reference	TCA Applic PTF Estimate	cation (\$Ms): Non-PTF Estimate
		<u></u>					
ES-22-TCA-38	<u>TBD</u>	n/a	TBD	Build a new air-insulated breaker-and-a-half scheme substation on Eversource-owned land adjacent to existing substation to include 4 bays, seven line terminals and an additional disconnect switch, to include corresponding protection and control scheme upgrades. SUBTOTAL	Per PAC Presentation	\$ 72.193 \$ 72.193	\$