

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

June 13, 2023

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-23-TCA-20 NH 2029 Solution Eastern - 363 345kV Line Bisect for NHT Cap Bank (Seabrook substation - Scobie Pond 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"). Additionally, Eversource acknowledges that this TCA is being submitted at the request of New Hampshire Transmission ("NHT") and ISO-NE in order to track the total incurred regional costs associated with Regional System Plan project #1881, which is not an Eversource project and is owned by NHT. Therefore, the Total Proposed PTF Costs noted here in Section 7 of the attached TCA must be added the total PTF costs listed for RSP #1881 on the RSP Project List, and it is the responsibility of NHT to provide the required periodic updates on this project to ISO-NE.

If you have any questions, I can be reached via the information listed above.

Sincerely,

Steven J. Allen

Steven J. Allen

cc: M. Drzewianowski

Attachment B
TCA Application Form

| | | | | |
|-------------------|--|------------------------------|-----------------------------|--------|
| 1. Applicant: | Application #: | ES-23-TCA-20 | Date: | Jun-23 |
| Contact Name: | Steven J. Allen | | | |
| Company Name: | Eversource Energy Service Company | | | |
| Address 1: | 56 Prospect Street | | | |
| Address 2: | | | | |
| City, State, Zip: | Hartford, CT 06103 | RSP Project ID # or | | |
| Contact Phone #: | 860-728-4536 | Asset Condition ID # | 1881 (NHT) | |
| Email Address: | steven.allen@eversource.com | Is Project related to CIP-14 | | |
| | | Yes <input type="checkbox"/> | No <input type="checkbox"/> | |

2. Project Description: In Service Date: Oct-23

a. **High Level Project Details:**

Project Name (If no formal name, then Substation Upgrade, Line Upgrade, etc. are acceptable):

**NH 2029 Solution Eastern - 363 345kV Line Bisect for NHT
Cap Bank (Seabrook substation - Scobie Pond substation)**

Project Location (State only):

State:

NH

County:

Rockingham

b. Summary of PTF-related work for Project:

The 363 345kV Line Bisect for New Hampshire Transmission (NHT) Cap Bank Project will remove one(1) existing structure and install two (2) new structures and new conductor that will bisect the existing 363 345kV Line near Seabrook Substation (owned by New Hampshire Transmission, a subsidiary of NextEra Energy) in Seabrook, NH.

Final project cost details will be known following closeout of all project work orders.

c. Summary of Non-PTF-related work for Project:

| | | | | |
|--|---|-----------------------------|----------------|--------------------------------|
| 3. Was a transmission Proposed Plan Application required for this work? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | PPA Number: | NHT-22-T01, NHT-22-T01-Rev1 |
| 4. Has a transmission Proposed Plan Application been approved? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Approval Date: | April 20, 2023 |
| If yes, attach a copy and reference Proposed Plan Application # and approval date. | | (Please check only one) | | |

Need For Project:

5. Need Based On (Check all Categories that apply):

- a. Reliability
- 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 Application)

- e. Public Policy Transmission Upgrade (PPTU)
- f. Market Efficiency Transmission Upgrade (METU)
- g. Asset Condition
- 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.)

The ISO-NE New Hampshire 2029 Solutions Study referenced the needs to upgrade the Southern New Hampshire area transmission system. The objective of the Solutions Study was to investigate transmission solutions to remedy the NH study area time-sensitive criteria violations in accordance with applicable NERC, NPCC, and ISO standards and criteria.

This preferred solution is in the NH 2029 Solutions Study that was developed in coordination with ISO-NE as detailed in the final NH 2029 Solutions Study, posted on the ISO-NE’s external website on May 27, 2021, revision (draft) posted on August 16, 2022.

Link to ISO-NE Solutions Study report below:
https://smd.iso-ne.com/operations-services/ceii/pac/2022/08/draft_ceii_nh_2029_ss_revision1_redline.pdf

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:

Install two (2) new direct embed 3-pole dead-end structures with guy wires on the existing 363 345kV Line between Seabrook substation and Scobie 345kV substation.

- This would require guy wires to support the dead-end structures significantly impacting a parking lot, would necessitate overlapping guying between two structures, inefficient guying alignment and potentially grouping issues with the anchors.

Preferred:

Install two (2) new monopole dead-end structures on drilled shaft foundations on the existing 363 345kV Line between Seabrook substation and Scobie 345kV substation.

- This will preserve parking and travel lanes around the bi-sect structures, and avoids guying and anchor issues due to close structure spacing.

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.

* 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 #: 1881 (NHT)

Project Name: NH 2029 Solution Eastern - 363 345kV Line Bisect for NHT Cap Bank (Seabrook substation - Scobie)

Date: Jun-23

1. Project Scope Summary

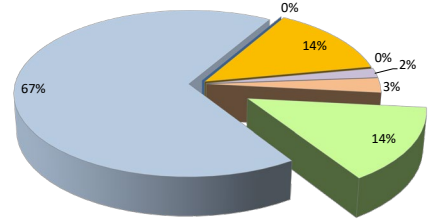
The 363 345kV Line Bisect for New Hampshire Transmission (NHT) Cap Bank Project will remove one(1) existing structure and install two (2) new structures and new conductor that will bisect the existing 363 345kV Line near Seabrook Substation (owned by New Hampshire Transmission, a subsidiary of NextEra Energy) in Seabrook, NH.

2. Project Cost Summary

(\$M)

| 2.1. Project Cost Summary | | | |
|-----------------------------------|-----------------|-------------|-----------------|
| Cost Category | PTF | Non-PTF | Total |
| Material | \$ 0.531 | \$ - | \$ 0.531 |
| Labor & Equipment | \$ 2.519 | \$ - | \$ 2.519 |
| Right of Way | \$ - | \$ - | \$ - |
| Engineering/Permitting /Indirects | \$ 0.507 | \$ - | \$ 0.507 |
| Escalation | \$ - | \$ - | \$ - |
| AFUDC | \$ 0.067 | \$ - | \$ 0.067 |
| Contingency | \$ 0.106 | \$ - | \$ 0.106 |
| Total Project Cost | \$ 3.730 | \$ - | \$ 3.730 |

- Material
- Labor & Equipment
- Right of Way
- Engineering/Permitting /Indirects
- Escalation
- AFUDC
- Contingency



2.2 Detailed Cost Summary By Project Element

| | Material | Labor & Equipment | Right of Way | Engineering/Permitting/ Indirects | Escalation | AFUDC | Contingency | Total | PTF Amount |
|--|-----------------|-------------------|--------------|-----------------------------------|-------------|-----------------|-----------------|-----------------|-----------------|
| NH 2029 Solution - 363 345kV Line Bisect for NHT Cap Bank (Seabrook substation - Scobie Pond substation) | \$ 0.531 | \$ 2.519 | \$ - | \$ 0.507 | \$ - | \$ 0.067 | \$ 0.106 | \$ 3.730 | \$ 3.730 |
| Total | \$ 0.531 | \$ 2.519 | \$ - | \$ 0.507 | \$ - | \$ 0.067 | \$ 0.106 | \$ 3.730 | \$ 3.730 |

3. Project Milestone Schedule

| Description | Start | End | 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 |
| | | | Siting & Permitting | | | | | | | | | | | | | | | | | | | |
| Approval and Permits | 7/26/2022 | 11/21/2022 | → | | | | | | | | | | | | | | | | | | | |
| | | | Engineering | | | | | | | | | | | | | | | | | | | |
| Engineering and Design | 7/5/2022 | 5/24/2023 | → | | | | | | | | | | | | | | | | | | | |
| | | | Material | | | | | | | | | | | | | | | | | | | |
| Material | 1/23/2023 | 6/30/2023 | → | | | | | | | | | | | | | | | | | | | |
| | | | Construction | | | | | | | | | | | | | | | | | | | |
| Construction | 8/1/2023 | 10/27/2023 | → | | | | | | | | | | | | | | | | | | | |
| | | | 2021 2022 2023 2024 2025 | | | | | | | | | | | | | | | | | | | |

NH 2029 Solution Eastern -363 345kV Line Bisect for NHT Cap Bank Project Correlation Table
 (Seabrook substation - Scobie Pond substation)

| <u>TCA Item</u> | <u>RSP:</u> Project ID # | <u>Study:</u> Reliability Issues Requiring Action | <u>PPA Application:</u> | | <u>PAC/RC Meeting:</u> Presentation Reference | <u>TCA Application (\$Ms):</u> | |
|---------------------|-----------------------------|--|-------------------------|--|--|--------------------------------|-------------------------|
| | | | <u>PPA No.</u> | <u>Preferred Solution Description</u> | | <u>PTF Estimate</u> | <u>Non-PTF Estimate</u> |
| ES-23-TCA-20 | <u>1881 (NHT)</u> | n/a | NHT-22-T01-Rev1 | NH 2029 Solution Eastern - Remove one (1) existing structure and install two (2) new structures and new conductor on the 363 345kV Line near New Hampshire Transmission (NHT) Seabrook substation. | Per PAC Presentation 2/17/2021 NHT-22-T01-Rev1 PPA - RC 3/14/2023 NHT Cost Update PAC Presentation 5/18/2023 | \$ 3.730 | |
| | | | | SUBTOTAL | | \$ 3.730 | \$ - |