

September 1, 2021

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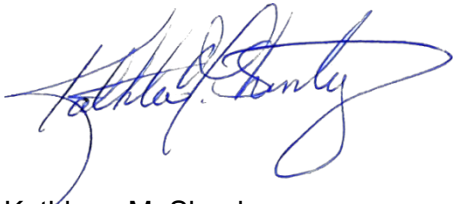
Re: Docket No. Petition 1459 – Shunock Substation

Dear Ms. Bachman,

This letter provides the response to requests for information listed below.

Response to CSC-01 Interrogatories dated August 11, 2021  
CSC-001, 002, 003, 004, 005, 006

Sincerely,



Kathleen M. Shanley  
Manager – Transmission Siting

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Date Filed: September 01, 2021

**Request from: Connecticut Siting Council**

**Question:**

What is the total estimated cost of the project? Of this total, what costs would be regionalized, and what costs would be localized? Estimate the percentages of the total cost that would be borne by Eversource ratepayers, Connecticut ratepayers, and the remainder of New England (excluding Connecticut) ratepayers, as applicable.

**Response:**

The total estimated cost of the project is approximately \$43.8 million. Of the total, approximately \$2.0 million is associated with distribution facilities and would be recovered from customers of The Connecticut Light and Power Company dba Eversource Energy ("Eversource"). Eversource anticipates that the remaining costs will be regionalized, subject to the final determination of ISO-New England's Schedule 12 C review.

The Company anticipates the following overall allocations for the total cost:

- Eversource customers: 22.6%
- Other Connecticut customers: 5.5%
- Other New England customers: 71.9%

The estimated allocations are based on 2020 actual loads.

Date Filed: September 01, 2021

**Request from: Connecticut Siting Council**

**Question:**

Referencing Petition p. 8, were there any comments from the Towns of Stonington, North Stonington or the property abutters? If so, what were their concerns, and how were these concerns addressed?

**Response:**

North Stonington municipal officials expressed concern about the tree and vegetation removal in the expansion area of the substation located on Eversource property. Eversource responded that it will have a landscape designer develop a visual mitigation plan comprised of compatible plant species in late-fall 2021. The Project will share the plan with municipal officials for their feedback. The planting plan would be implemented after the Project work is complete.

Municipal officials also expressed concerns about the proximity of the work to wetlands and Spadefoot Toad habitat. In response, Eversource explained that it does not anticipate the need to disturb or clear any wetland vegetation, Floodway or Spadefoot Toad habitat area.

Date Filed: September 01, 2021

**Request from: Connecticut Siting Council**

**Question:**

Why is an infiltration basin required for this project? Does the project require a DEEP Stormwater permit? Will the basin be vegetated or surfaced with rip rap?

**Response:**

An infiltration basin is required for this project because the proposed substation improvements will disturb more than one (1) acre, triggering the need to comply with the State stormwater management rules. The project does require a stormwater permit from the Department of Energy and Environmental Protection. The application for this permit was filed on 8/3/21. The basin will be vegetated.

Date Filed: September 01, 2021

**Request from: Connecticut Siting Council**

**Question:**

Referring to Petition p. 7, what data or testing was used to determine noise levels that would continue to meet DEEP Noise Control Regulations during operation of the new equipment? Provide the expected sound levels of the +50/-25series reactors MVAR synchronous condenser and 50-MVA transformer at the equipment locations and at the closest property line.

**Response:**

An environmental sound survey was conducted to quantify and characterize the existing acoustic environment in the vicinity of the Substation. The results of the survey provide both quantitative and qualitative analyses of the acoustic environment surrounding the site. A-weighted and one-third octave band environmental noise descriptors were recorded to determine maximum and minimum sound levels, percentile sound levels, and the equivalent sound level of the existing site conditions. Sound impact due to the new equipment was evaluated in an environmental sound modeling software that considered the addition of the new sound sources (power transformer (90 dBA), auxiliary transformers (66 dBA), two air-cooled chillers (94 dBA), machine building with HVAC (94 dBA), and control building with HVAC (88 dBA)) based upon data provided by the equipment manufacturer.

This evaluation concluded that the Substation is currently in compliance with state noise control regulations. In addition, it also determined that the sound produced by the new equipment at the Substation would comply with these requirements and would not have an adverse effect on the surrounding properties. The Town of North Stonington does not list a noise threshold in its zoning regulations. The Substation is considered a Class C noise emitter. Adjacent land uses include a Class A receptors (residential use) Class B receptors (commercial use) and Class C receptors (industrial use). Estimated post-project sound levels at the property boundaries will continue to meet applicable noise thresholds and be no greater than 52 dBA at the commercial property boundaries and no greater than 46 dBA at the residential property boundaries due to the respective distances from the equipment.

Date Filed: September 01, 2021

**Request from: Connecticut Siting Council**

**Question:**

Referring to Attachment B, was a spadefoot toad survey conducted for this project? Are spadefoot toad mitigation measures required?

**Response:**

No. A Spadefoot Toad habitat assessment was conducted for the Project utilizing information from the Natural Diversity Database. No suitable habitat for the Spadefoot Toad was identified and, as a result, it was determined that a detailed survey and mitigation measures were not required.

Date Filed: September 01, 2021

**Request from: Connecticut Siting Council**

**Question:**

Referring to Petition p. 4, why is construction extending to June 2023?

**Response:**

Site expansion is projected to begin in December 2021 and conclude in March 2022. This will include clearing and installation of the new retaining wall. The transmission line structure is scheduled to be completed in January 2022. Construction for the ring bus is expected to begin in March 2022 and continue through December 2022. The sync condenser building and sync condenser equipment, along with the heating and cooling building/equipment and the new relay and control enclosure for the sync condenser, step up/down transformers and station service transformers are all long lead time items. Ordering of this equipment has begun. The construction and delivery of these items is expected to begin in May 2022 (with foundation work) and continue through March of 2023. Testing and commissioning will be completed in April 2023. Time has been allotted for site restoration as well, pushing the end date out to June 2023.