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June 15, 2022

Melanie Bachman, Esq.  
Executive Director Connecticut  
Siting Council Ten Franklin  
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RE: *Notice of Exempt Modification Pursuant to RCSA § 16-50j-57(a) to Existing Energy Facilities in the City of Meriden, New Haven County, Connecticut (“Notice of Exempt Modification”): Replace Failed Transformer*

Dear Attorney Bachman:

The Connecticut Light and Power Company dba Eversource Energy (“Eversource”) hereby gives notice to the Connecticut Siting Council (Council) of its intent, in accordance with Section 16-50j-57(a) of the Regulations of Connecticut State Agencies (“RCSA”), to undertake modifications to its existing 115-kilovolt (“kV”) / 13.8-kV East Meriden Substation (“Substation”), located on an approximately 0.7-acre fenced area within an 8.8-acre Eversource property at 300 High Hill Road in the City of Meriden, New Haven County, Connecticut (refer to Figure 1).

The Substation includes two 115- / 13.8-kV transformers, two 115-kV transmission circuits, and six 13.8-kV circuits. One of the Substation transformers, which was approximately 50 years old, failed in May 2022.

To maintain the reliability and resiliency of the transmission system, Eversource plans to replace a recently failed and currently inoperable 46.7 megavolt ampere (MVA) transformer with a new 62.5 MVA transformer. No expansion of the Substation fence will be required.

Eversource proposes to commence the work to remove the failed transformer on or about June 17, 2022 and then to perform civil work to prepare for the installation of the new transformer in August 2022. The new transformer is scheduled to be in-service in mid-to late August 2022.

To carry the electric load of the failed transformer, Eversource has positioned a mobile transformer on the northern portion of the fenced Substation site. This mobile transformer will be used until the replacement transformer is placed in service.

As shown in the table below, the new transformer will be approximately the same height as the failed transformer but will be longer and wider than the failed transformer:

<b>Dimensions (Approx. Feet)</b>	<b>Existing Transformer</b>	<b>Replacement Transformer</b>
Height	20.2	21.2
Length	23.6	32.4
Width	13.9	19.5

The proposed modifications would not have a substantial adverse environmental effect or cause a significant adverse change or alteration in the physical or environmental characteristics because:

- The transformer replacement work would be within the Substation's existing fenced area and would not impair the structural integrity of the facility.
- To perform the work, a portion of the southwestern substation fence will be removed and temporary fencing will be installed slightly outside the current fence line (refer to Figure 1). After the installation of the new transformer, the mobile transformer will be removed and the southwestern fence line will be restored to the pre-project location.
- Construction equipment will use existing access from High Hill Road to reach the substation.
- A staging area to support the transformer replacement work will be located on Eversource property directly northwest of the Substation fence. This area has been previously used to support a switchgear replacement project at the Substation.
- The work would not affect wetlands or waterways and will not require tree clearing.
- The Substation is not in a flood zone designated by the Federal Emergency Management Agency.
- Eversource's review of the Connecticut Department of Energy and Environmental Protection's Natural Diversity Data Base maps identified no state-listed endangered, threatened, or special concern species in the vicinity of the Substation.
- The work would result in short-term noise typical of construction activities but would not result in any significant long-term changes to the noise environment because the noise from the new transformer will be comparable to the noise that was generated by the failed transformer.
- A combination of topography and screening vegetation will continue to provide screening and a noise buffer between the Substation and residences located along High Hill Road north, east, and south of the Substation.

Ms. Bachman  
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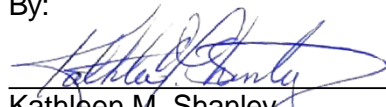
- Electric and magnetic field levels would not be altered by the transformer replacement.
- The failed transformer will be temporarily stored on Eversource property adjacent to the Substation until arrangements can be made to appropriately recycle, reuse, or scrap the equipment.

Eversource is submitting this filing electronically and will provide three hard copies for the Council's records, along with the requisite fee of \$625.00.

A notice of this exempt modification filing has been provided to the Mayor of the City of Meriden.

Communications regarding this Notice of Exempt Modification should be directed to Kathleen M. Shanley at (860) 728-4527.

By:



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Kathleen M. Shanley  
Manager - Transmission Siting

cc: Kevin Scarpati, Mayor, City of Meriden

**Figure 1: Aerial View of East Meriden Substation, 300 High Hill Road, City of Meriden, CT**



Note: Planned staging area for the transformer replacement work (e.g., for office trailer, supplies, equipment) outside the northern Substation fence was and is presently being used to support a Substation switchgear replacement project. This aerial photograph pre-dates the establishment of the staging area.