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September 1, 2020

Melanie Bachman, Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

RE: Notice of Exempt Modification Pursuant to RCSA § 16-50j-57(b)(1) for Replacement of an Energy Component of an Energy Facility at 95 Hamilton Avenue, Stamford (“Notice of Exempt Modification”)

Dear Ms. Bachman:

The Connecticut Light and Power Company dba Eversource Energy (“Eversource”) hereby gives notice to the Connecticut Siting Council of its intent to undertake an exempt modification in accordance with Section 16-50j-57(b)(1) of the Regulations of Connecticut State Agencies (“RCSA”) for the modification to Eversource’s Glenbrook Substation as described herein.

Modification – Energy Component Replacement

The planned modification will take place within the existing fenced area at Eversource’s Glenbrook 1K Substation (“Substation”), located on its property at 95 Hamilton Avenue in Stamford, Connecticut. The Substation is a 115-kV to 23-kV facility with three (3) 115- to 23-kV transformers, eleven (11) 115-kV transmission circuits, and seventeen (17) 23-kV distribution circuits.

Eversource proposes to replace the existing static synchronous compensator (“STATCOM”) with a new STATCOM of similar design on the existing foundation within the Substation and will have equal or greater dynamic reactive power to support voltage regulation. The existing STATCOM, which was installed in 2004, is now obsolete and parts and components are failing due to age. This is consistent with industry experience for this type of equipment. Six (6) additional foundations,

approximately 35 feet by 8 feet, and four (4) additional foundations, approximately 8 feet by 4 feet, are also required to support the new STATCOM's cooling system. Three (3) of the new larger foundations and two (2) of the new smaller foundations will be located adjacent to the east side of the existing STATCOM. The remaining new foundations will be located adjacent to the west side of the existing STATCOM. The replacement STATCOM parts are scheduled to arrive at the Substation in November 2020. Eversource proposes to begin construction in November 2020 and continue construction through April 2021.¹

The STATCOM replacement will not have a substantial adverse environmental effect. This replacement will not: (1) extend the fenced area of the substation, (2) increase the height of the substation equipment, (3) increase the noise levels that exceed state or local criteria, (4) fail to comply with the Council's Best Management Practices for Electric and Magnetic Fields at the site boundary, or (5) cause a significant adverse change or alteration in the physical or environmental characteristics of the Substation.

A notice of exemption modification filing has been sent to the Mayor of Stamford. A hard copy of this notice will be delivered to the Siting Council's office and we understand that we will be billed for the filing fee of \$625.00.

¹ Construction will occur during the time when load levels will likely not adversely impact the system without the STATCOM in operation. Additionally, emergency operating plans would be put in place to manage the transmission system during the construction period. One component of the operating plan would be to utilize generators to mitigate system operational issues that would otherwise be addressed by the STATCOM.

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

By: 
Kathleen M. Shanley
Manager – Transmission Siting