

May 17, 2016

Mr. Robert Stein
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: Petition No. Petition 1226 - Towantic Switch Station and Line Project

Dear Mr. Stein:

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

Response to CSC-02 Interrogatories dated 05/13/2016
CSC-021, 022, 023, 024, 025

Very truly yours,

Kathleen Shanley
Manager
Siting, Transmission
As Agent for CL&P
dba EversourceEnergy

cc: Service List

CL&P dba Eversource Energy
Petition No. Petition 1226

Data Request CSC-02
Dated: 05/13/2016
Q-CSC-021
Page 1 of 1

Witness: Witness Panel
Request from: Connecticut Siting Council

Question:

Explain why two 115-kV connections to the southern portion of the switching station are proposed as underground while the remaining four connections are proposed as overhead?

Response:

Each of the six (6) 115 kV transmission lines must terminate into a specific position within the Switching Station. The specific termination positions are based on the system impact study conducted as part of the ISO-NE interconnection process. Lines 1575S (new designation - Line 1403) and 1585S (new designation - Line 1142) must terminate in the southern-most bay of the Switching Station. These two (2) transmission lines must cross Line 1990S (new designation - Line 1619) to terminate in the southern-most bay, given the transmission line positions within the ROW. The underground solution was selected as a more reliable way to implement the crossing, as opposed to an overhead crossing solution.

Witness: **Witness Panel**
Request from: **Connecticut Siting Council**

Question:

Reference Sheet 22 of 26. Since New Structure #1 is located in wetlands, would one of the three-foot wide underground 115-kV concrete duct banks also be partially located in Wetland C? Would the permanent wetland impact estimate of 1,500 square feet and temporary wetland impact estimate of 14,110 square feet also include the duct bank disturbance? Did The Connecticut Light and Power Company d/b/a Eversource Energy (Eversource) seek to avoid wetland impacts associated with the placement of New Structure 1 and its associated underground duct bank?

Response:

Yes, one of the underground 115-kV concrete duct banks would be partially located in Wetland C.

The total temporary and permanent impacts shown on Sheet 22 of 26 includes all of the wetland impacts associated with work in this area (i.e. duct banks, turning structures, secondary access road, and temporary construction matting).

All efforts have been made to avoid and minimize the amount of wetland impact associated with the turning structures, duct bank connections and secondary access road in the area of the proposed switching station. However, some degree of wetland impact is unavoidable because of the proposed switching station's proximity to wetlands within the Eversource ROW. We have been able to locate five of the six turning structures outside of wetlands, but one turning structure must be located in a wetland for the following reasons:

1. Placing this structure outside of the wetlands would require moving it north along the alignment until it is above new structure #6, which would be fundamentally impossible.
2. Any transverse (east-west) movements, for either new structure #1 or new structure #3 is not possible because such a shift in location will cause the existing lattice tower directly to the south to be structurally overloaded due to the large line angle that would be placed on the lines. In addition, movement to the east would interfere with the secondary access road slope and the 1990 Line alignment.

CL&P dba Eversource Energy
Petition No. Petition 1226

Data Request CSC-02
Dated: 05/13/2016
Q-CSC-023
Page 1 of 1

Witness: Witness Panel
Request from: Connecticut Siting Council

Question:

In the response to interrogatory number 3, approximately 45,000 cubic yards (cy) of cut and fill would be required. Does this mean that 45,000 cy would be cut and used on-site as fill? Estimate the amounts of cut and fill separately.

Response:

This response was prepared with assistance and information from CPV Towantic, LLC and/or its agents. CPV Towantic, LLC is responsible for the cut and fill operations at the site. The 45,000 cubic yard (cy) of cut in the area of the switchyard is the extent of the earthwork in that location. There is no fill within the switchyard area.

The Phase 3 construction sequence, as depicted on Sheet C331 of the CPV Towantic Energy Center D&M Plan Submission Set prepared by Civil 1, dated June 30, 2015 and submitted to the Connecticut Siting Council on July 17, 2015, outlines the steps involved in the completion of the switchyard area earthwork and construction of Stormwater Renovation Area "B". These include installation and maintenance of erosion control measures, stripping and stockpiling of topsoil, mass earth excavation, and construction of the stormwater renovation area.

The construction sequence notes that small stockpile areas are provided on-site, but that the majority of the material will be transported off-site.

CL&P dba Eversource Energy
Petition No. Petition 1226

Data Request CSC-02
Dated: 05/13/2016
Q-CSC-024
Page 1 of 1

Witness: Witness Panel
Request from: Connecticut Siting Council

Question:

The proposed relay and control enclosure would be 68-feet by 28-feet. What is the approximate height of the enclosure in feet?

Response:

The approximate height of the proposed relay and control enclosure is 13 feet.

CL&P dba Eversource Energy
Petition No. Petition 1226

Data Request CSC-02
Dated: 05/13/2016
Q-CSC-025
Page 1 of 1

Witness: Witness Panel
Request from: Connecticut Siting Council

Question:

Would the proposed fenced switching station itself be located outside of the 100-year and 500-year flood zones?

Response:

The proposed fenced switching station will be located outside of the 100-year and 500-year flood zones.