

April 5, 2016

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

Re: Petition No. Petition 1217 - Bloomfield to Windsor Reliability Project

Dear Mr. Stein:

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

Response to CSC-01 Interrogatories dated 03/24/2016
CSC-002, 004, 016, 018

Very truly yours,

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

cc: Service List

CL&P dba Eversource Energy
Petition No. Petition 1217

Data Request CSC-01
Dated: 03/24/2016
Q-CSC-002
Page 1 of 1

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

Question:

Is the loss of a double-circuit structure considered a single or double contingency event? If yes, discuss the proposed separation of circuits relative to a contingency event.

Response:

The loss of a double-circuit structure is always considered a single contingency event. The construction of the double-circuit towers exposes two circuits to an outage as a result of a single event, e.g. a lightning strike or a failure of a tower, while constructing the circuits on their own set of towers significantly reduces the risk of both circuits experiencing a simultaneous outage. The separation of the double-circuit structures will make the transmission system more robust and reliable.

CL&P dba Eversource Energy
Petition No. Petition 1217

Data Request CSC-01
Dated: 03/24/2016
Q-CSC-004
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Witness: Witness Panel
Request from: Connecticut Siting Council

Question:

How are existing transmission line structures evaluated in terms of Eversource's storm hardening requirements? If a structure is determined to be replaced, is a new structure readily available during construction?

Response:

Eversource's storm hardening review evaluates each structure individually to assess its load carrying capability against the NESC code required loading criteria in effect at the time the line was designed. The structure load is determined from as-built LiDAR models and structure condition is assessed based on historical inspection data and field observations. Analysis is performed to evaluate the strength capacity of each structure and its ability to sustain the calculated design load.

Yes, structures requiring replacement are available at the time of construction.

CL&P dba Eversource Energy
Petition No. Petition 1217

Data Request CSC-01
Dated: 03/24/2016
Q-CSC-016
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Witness: Witness Panel
Request from: Connecticut Siting Council

Question:

Which is the tallest proposed piece of equipment for Bloomfield Substation and its height relative to existing similar equipment?

Response:

The tallest piece of equipment associated with this project is the relocated disconnect switch which is approximately 14' 6" tall. Similar equipment at Bloomfield Substation is approximately 21' 6" tall.

CL&P dba Eversource Energy
Petition No. Petition 1217

Data Request CSC-01
Dated: 03/24/2016
Q-CSC-018
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Witness: Witness Panel
Request from: Connecticut Siting Council

Question:

Which is the tallest proposed piece of equipment for North Bloomfield Substation and its height relative to existing similar equipment?

Response:

The tallest piece of equipment associated with this project is the relocated wave trap which is approximately 28' tall. Similar equipment at North Bloomfield Substation is approximately 28' tall.