

October 22, 2020

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

Re: Petition No. TS-EVER-102-200922 - 350B Cossaduck Hill Road, North Stonington,
Connecticut

Dear Ms. Bachman:

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

Response to CSC-01 Interrogatories dated 10/14/2020
CSC-001, 002, 003, 004

Very truly yours,

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

cc: Service List

CL&P dba Eversource Energy
Petition No. TS-EVER-102-200922

Data Request CSC-01
Dated: 10/14/2020
Q-CSC-001
Page 1 of 1

Witness: No Witness
Request from: Connecticut Siting Council

Question:

Please provide clarification on the need for a 24-kilowatt generator and a 1000-gallon propane tank for the proposed whip antenna.

Response:

As an essential electric services supplier in Connecticut, The Connecticut Light & Power Company doing business as Eversource Energy ("Eversource") must design and construct all communications facilities to manage mission critical services at all times. Eversource does not currently have an antenna or other equipment at the existing facility and proposes to add one antenna, two coaxial cables, a control house, a battery back-up system and the 24-kilowatt generator to be fueled by propane, which will be stored in a 1000-gallon propane tank. The proposed generator and propane tank will ensure that the new antenna and the entire mobile radio system will be capable of operating at the highest level of voice communications under all operating conditions, including during critical emergency and extended storm restoration activities.

CL&P dba Eversource Energy
Petition No. TS-EVER-102-200922

Data Request CSC-01
Dated: 10/14/2020
Q-CSC-002
Page 1 of 1

Witness: No Witness
Request from: Connecticut Siting Council

Question:

Please provide the estimated runtime of the generator at full load.

Response:

Based on the fuel consumption rate of the generator operating at full load, the estimated run time to consume the maximum volume of propane stored in the tank is approximately 10.6 days, based on a 60 degree Fahrenheit ambient temperature. Eversource anticipates that electric power would be restored to the site before the 10.6 day limit is reached.

CL&P dba Eversource Energy
Petition No. TS-EVER-102-200922

Data Request CSC-01
Dated: 10/14/2020
Q-CSC-003
Page 1 of 1

Witness: No Witness
Request from: Connecticut Siting Council

Question:

Did Eversource consider the use of battery backup power as an alternative? Please provide estimated battery backup time if applicable.

Response:

Yes, Eversource will install battery backup power. However, the back-up battery systems used in telecommunication facilities are estimated to be able to support the site for only 10.9 hours with a typical electrical load, which is insufficient to support communications during an extended power outage. Therefore, an emergency generator fueled by propane is necessary to maintain operations during emergency conditions or storm events that extend beyond 10.9 hours.

CL&P dba Eversource Energy
Petition No. TS-EVER-102-200922

Data Request CSC-01
Dated: 10/14/2020
Q-CSC-004
Page 1 of 1

Witness: No Witness
Request from: Connecticut Siting Council

Question:

Would a battery backup (if applicable) be used to provide uninterrupted power and prevent a reboot condition? How long could the battery backup alone supply power to the facility in the event that the generator fails to start?

Response:

Yes, the battery backup system would be used to provide uninterrupted power during a loss of power or in the event that the generator fails. The batteries will support the full load of the site as the auto-transfer switch transitions to the generator for AC power. The battery backup system alone would provide power for up to 10.9 hours if the generator fails to start.