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**STATE OF CONNECTICUT**

**CONNECTICUT SITING COUNCIL**

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|---|---|---|
| **RE:** EVERSOURCE ENERGY APPLICATION FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED FOR THE CONSTRUCTION, MAINTENANCE, AND OPERATION OF A 115-KILOVOLT (KV) BULK SUBSTATION LOCATED AT 290 RAILROAD AVENUE, GREENWICH, CONNECTICUT, AND TWO 115-KV UNDERGROUND TRANSMISSION LINES EXTENDING APPROXIMATELY 2.3 MILES BETWEEN THE PROPOSED SUBSTATION AND THE EXISTING COS COB SUBSTATION, GREENWICH, CONNECTICUT, AND RELATED SUBSTATION IMPROVEMENTS. | : | **DOCKET NO. 461** |
| | : | **FEBRUARY 2, 2016** |

**INTERROGATORIES OF**
**THE OFFICE OF CONSUMER COUNSEL, SET SIX**

The following interrogatories from the Office of Consumer Counsel ("OCC") are directed to the Connecticut Light and Power Company d/b/a Eversource Energy ("CL&P" or "Company"). Please contact the undersigned with any questions. Per the Siting Council schedule, please provide responses **on or before February 16, 2016**.

OCC-73 Reference 01/12/2016 Hearing Transcript ("Tr.") at 129. Provide the town location for each indoor bulk transmission substations in CL&P's territory. Explain the circumstances under which service provision requires an indoor bulk transmission substation.

OCC-74 Provide the following: a) circuit mile distance from Cedar Heights substation to the North Greenwich substation, and b) circuit mile and direct route mile distances from Cos Cob substation to the North Greenwich substation.

OCC-75 Reference 01/12/2016 Tr. at 90-91. Regarding the North Greenwich and Cos Cob substations:

a) Does the Company plan to have the capability of feeding North Greenwich substation through both Cos Cob and through the New Greenwich substation? If so, was this cost included in the Company's original cost estimate? If not, provide the cost.

b) If the New Greenwich substation is built, what use will be made of the Cos Cob substation, apart from providing backup feeding for the North Greenwich substation? Will the existing 27.6kV and 13.2kV transformers be retained or

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removed? What will be housed there? What are the Company's plans for future use of the property and building? What is the proposed disposition of the 13.2kV transformers 35K-6X and 11R-5X which provide redundant supply for Metro North's signal control system?

OCC-76 Within the Company's territory, what is the average distance from a bulk transmission substation to a distribution substation? What are the Company's standards regarding acceptable and unacceptable distances?

OCC-77 Reference Response to OCC-60. If the New Greenwich substation is built, what are the plans for the Prospect and Byram substation properties? Provide all costs associated with eliminating the two transformers in Byram and the four in Prospect.

OCC-78 Discuss in detail the level of redundancy the Company provides the majority of customers in its territory, including but not limited to the following topics:

a) Regarding serving substations, does the Company generally provide service fed through two substations, with one serving as a backup in case the other substation should be out of service? Provide a response for bulk transmission substations and for distribution substations.

b) Regarding bulk transmission lines, does the Company arrange to have an equal number of backup transmission lines for most of its customers, e.g., for the 115kV pair from South End - Stamford that serves Greenwich, would the Company normally have an additional pair of backup lines to cover any situation in which the main transmission pair was out of service?

c) Discuss temporary load transfers. Are most customers served from substations that have temporary load transfer capability to transfer to, and receive load from, another substation? Discuss the limits on temporary transfers, e.g., time, capacity, etc. Identify the temporary transfer capabilities within Greenwich.

OCC-79 Reference Response to OCC-64. Is Metro-North usage included in the sales total for Greenwich? If so, provide the sales total excluding Metro-North.

OCC-80 Reference 01/12 Tr. at 89-91. If the New Greenwich substation is built, what will happen to service in Greenwich if the substation goes down?

OCC-81 Provide a table listing the transformers at Cos Cob and at each substation served out of Cos Cob. For each transformer, list the kV stepdown type (e.g., 115kV to 27.6 or 13.2, etc.) and the disposition of each if the New Greenwich substation is built. Also list each transformer in the proposed New Greenwich substation, the stepdown type, and identify the current transformer it would replace.

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OCC-82 Reference Response to OCC-49, and Application, p. E-8, Table E-2 and footnote 10. Should the actuals for Prospect be 42.8 for 2014, and 47 for 2015?

OCC-83 Reference Response to OCC-47. Expand the information categories in the response and provide a table that includes the following information for each of the existing transformers at Cos Cob, North Greenwich, Byram, and Prospect substations, and for each of the transformers at the proposed New Greenwich substation:

a) nameplate rating;
b) maximum forced oil/forced air rating;
c) Eversource's summer normal rating;
d) type of stepdown (e.g., 115kV to 27.6kV, 115kV to 13.2, etc.);
e) permissible load capacity;
f) short-term emergency or peak rating; and
g) maximum short-term MVA loading for each substation and the conditions that it includes (e.g., transformer out of service, etc.).

Respectfully submitted,

OFFICE OF CONSUMER COUNSEL
ELIN SWANSON KATZ,
CONSUMER COUNSEL

By: Margaret Bain
Margaret Bain
Associate Rate Specialist

I hereby certify that a copy of the foregoing has been mailed, electronically filed, and/or hand-delivered to all known parties and intervenors of record, this 2nd day of February 2016.

Lauren H. Bidra
Commissioner of the Superior Court