



# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

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### VIA ELECTRONIC MAIL

March 24, 2016

Kathleen M. Shanley, Manager – Transmission Siting  
Eversource Energy  
56 Prospect Street  
P.O. Box 270  
Hartford, CT 06103

RE: **PETITION NO. 1217** – Eversource Energy petition for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the proposed separation of the existing 1779/1777 115 kilovolt (kV) electric transmission lines for 1.6 miles within existing right of way from Bloomfield Substation to Bloomfield Junction; proposed separation of the existing 1751/1777 115kV electric transmission lines for 5.3 miles within existing right of way from Bloomfield Junction to North Bloomfield Substation; modifications to the existing overhead 1779 115 kV electric transmission line to loop into the Rood Avenue Substation via underground cables; including related transmission line structure improvements; and modifications to the Bloomfield Substation, 40 Crestview Drive and North Bloomfield Substation, 2 Hoskins Road both in Bloomfield, Connecticut and modifications to the Rood Avenue Substation located at 275 Rood Avenue, Windsor, Connecticut.

Dear Ms. Shanley:

The Connecticut Siting Council (Council) requests your responses to the enclosed questions no later than April 5, 2016. To help expedite the Council's review, please file individual responses as soon as they are available.

Please forward an original and 15 copies to this office, as well as a copy via electronic mail. In accordance with the State Solid Waste Management Plan, the Council is requesting that all filings be submitted on recyclable paper, primarily regular weight white office paper. Please avoid using heavy stock paper, colored paper, and metal or plastic binders and separators. Fewer copies of bulk material may be provided as appropriate.

Any request for an extension of time to submit responses to interrogatories shall be submitted to the Council in writing pursuant to §16-50j-22a of the Regulations of Connecticut State Agencies.

Yours very truly,

Melanie A. Bachman  
Acting Executive Director

MB/MP/lm

c: Council Members

**Petition No. 1217**  
**Eversource**  
**Bloomfield and Windsor**  
**Interrogatories**

**General Questions**

1. What are the pros and cons of direct embedded versus drilled shaft foundations for monopole transmission structures?
2. 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.
3. Would the proposed increase in replacement structure height and associated conductors comport with North American Electric Reliability Corporation reliability criteria?
4. 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?
5. Would the proposed mitigation and best management practices be consistent with Calhoun and Klemens (2002) Best Development Practices for the existing vernal pools in the vicinity of the proposed project? Could construction be performed outside of the active breeding season for vernal pool species?

**Separation of 1777/1770 lines between Bloomfield Substation and Bloomfield Junction**  
**Questions**

6. What color are the existing painted lattice structures that the proposed galvanized steel structures are intended to match?
7. How far (distance and direction) is the nearest residence from the tallest proposed structure – 3636-1?
8. Is structure 3-107\_1 or 3-109\_1 located in wetlands?

**Separation of 1751/1777 lines between Bloomfield Junction and North Bloomfield**  
**Substation Questions**

9. How far (distance and direction) is the nearest residence from the tallest proposed weathering steel single-circuit monopole structure of 105 feet above ground level? What is the structure number for this proposed structure?
10. With respect to the conductors, are "45/7" and "54/19" the ratios of aluminum strands to steel strands in a given conductor?
11. Would the four proposed three-pole structures also be weathering steel?

12. Is proposed structure 3133-1 located within either the 100-year or 500-year flood zones?

#### **Rood Avenue Substation Questions**

13. Which is the tallest proposed piece of equipment for Rood Avenue Substation and its height relative to existing similar equipment?
14. What is the existing mesh size for the substation chain link fence (e.g. two inch)? What is the proposed mesh size for the substation expansion area?
15. How would the proposed substation modification/expansion affect existing magnetic field levels at the nearest residence?

#### **Bloomfield Substation Questions**

16. Which is the tallest proposed piece of equipment for Bloomfield Substation and its height relative to existing similar equipment?
17. How would the proposed substation modifications affect magnetic field levels at the nearest residence to the existing substation?

#### **North Bloomfield Substation Questions**

18. Which is the tallest proposed piece of equipment for North Bloomfield Substation and its height relative to existing similar equipment?
19. How would the proposed substation modifications affect magnetic field levels at the nearest residence to the existing substation?