



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

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Petition No. 164
Northeast Utilities
Forestville Substation
Staff Report
September 30, 1986

Chairperson Gloria Pond, Pamela Katz and Robert Erling of the Siting Council met Robert Carberry and Robert Charpentier of Northeast Utilities (NU) for a field review at the Forestville 12A Substation in the City of Bristol. NU is petitioning the Council that no certificate of environmental compatibility and public need is required for its proposed additions to this substation.

Specifically, NU proposes to add one 47-MVA 110 to 13.8 kV transformer and one 115 kV circuit breaker. Also, an existing 13.8 kV, 5.4 MVAR metal enclosed capacitor bank will be replaced to make room for the new transformer. The old capacitor bank would be replaced by an easier to maintain open rack design. The new transformer and circuit breaker are needed to meet the Bristol area's 13.8 kV load. NU will also install two 13.8 kV transformer secondary breakers and 13.8 kV underground cables from the transformer to the switchgear and support structures.

The proposed additional equipment would be no higher than existing substation structures. The Forestville substation is surrounded by trees on all sides. This natural screening, plus the positioning of the proposed additional equipment within the substation, would minimize the visual impact of this project.

Oil to be used in the new transformer would have a PCB concentration of less than 50 parts per million, and thus would be designated as non-PCB as defined by the United States Environmental Protection Agency. A sump would be built around the transformer to contain oil in the event of a spill.

No television or radio interference would result from this project. According to Mr. Charpentier, the proposed equipment would result in a 1-2 db sound increase at Cronin Road, and thus there would be no noticeable increase in sound level beyond the substation fence line.

Construction work would begin in November 1987, and would be completed by May, 1988.

Robert K. Erling
Siting Analyst

RKE/cp