



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

136 Main Street, Suite 401
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PETITION NO. 223
Manchester Substation
Transmission Support Equipment
December 19, 1988

Northeast Utilities (NU) is requesting a determination from the Council that no Certificate of Environmental Compatibility and Public Need is required for the addition of a capacitor bank and associated transmission support equipment within its existing 345-kV and 115-kV substation in Manchester, Connecticut.

On December 14, 1988, Daniel P. Lynch, Jr. and Ralph Reuss from the Council, and Thomas E. Fanning, Jr., staff of the Council, met Robert Charpentier, Lucien Gehami, and Charles Ponte of NU on the site of the proposed addition.

The proposed construction would include:

- a. Installation of a capacitor bank;
- b. Installation of two circuit breakers, one replacing an existing unit;
- c. Installation of three current limiting reactors;
- d. Installation of three circuit switchers;
- e. Installation of one disconnect switch;
- f. Installation of one coupling capacitor voltage transformer (CCVT); and
- g. Installation of associated protective relay and control equipment in an existing relay and control enclosure.

The substation is a terminal for 345-kV and 115-kV transmission lines, acting as a major switching facility where higher voltages are stepped down to voltages serving the local distribution lines. NU states that the proposed equipment is needed to support voltage levels when existing generation is displaced by future imported power from Hydro-Quebec.

The new additions would be entirely contained within the existing substation and would be well screened by structures of comparable or greater height, west, north, and east of the proposed location. The additions would be screened from the south by a line of evergreens that borders the substation. The tallest new structure would be approximately 25 feet high and would be placed near existing structures. The new equipment would blend into the general appearance of the station.

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NU maintains that the proposed additions would not increase sound levels, no television or radio interference would occur, no wetlands or waterways would be affected, and no equipment's insulating fluid would contain PCB's.

The proposed additions would be placed on concrete pads and no oil sumps would be needed for any of the units.

Although no local zoning or inland wetland permits are needed, NU has informed the General Manager of Manchester of the proposed construction.

Construction would begin in June 1989, and would be completed by the end of May 1990.

Pursuant to Section 16-50k of the Connecticut General Statutes, NU contends that the proposed additions would not have a substantial adverse environmental affect and therefore would not require a Certificate of Environmental Compatibility and Public Need.

Thomas E. Fanning, Jr.
Siting Analyst

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