



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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Petition No. 190
Glenbrook Substation
Staff Report
September 10, 1987

Connecticut Light & Power Company (CL&P) is requesting a ruling from the Council that the proposed project would not have a major adverse environmental effect and that no Certificate of Environmental Compatibility and Public Need is required.

Owen L. Clark and Fred J. Doocy, members of the Siting Council, and Thomas E. Fanning, Jr., staff of the Siting Council, met with Northeast Utilities (NU) representative Robert Charpentier on the site of the proposed project on August 26, 1987.

The project would include the addition of two 115-kV, 72-MVAR capacitor banks with current-limiting reactors, the replacement of two 115-kV circuit breakers (to switch capacitor banks), plus the addition of two 115-kV circuit breakers and other associated equipment. To facilitate the installation of this equipment, other substation work is required. The existing relay and control equipment building would be extended from 40 feet by 22 feet to 64 feet by 22 feet, for the accommodation of additional equipment. An internal fence surrounding the substation equipment must be moved outward, approximately ten feet, to the opposite side of an asphalt access road. The height of the fencing would increase to 12 feet. To make room for a new access road between the new fencing and the CL&P property line, some clearing of shrubs, brush, choke cherry, and small trees along a steep earth embankment is necessary. Some truncating of the embankment near the relay and control building is planned, but CL&P does not consider a retaining wall necessary. The present asphalt road would be stripped and gravel substituted along the rerouted roadway. This area is flat and should contain any run-off resulting from the bank cutting. All construction would be contained within the substation boundary lines.

NU states the addition of this equipment is needed to provide adequate voltage support due to increasing 115-kV loads in the Stamford area.

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The substation is located in a medium-light industrial zone along the Penn Central railroad to the west and a multi-family residential zone along the street frontage on the north, south and east sides of the property. The substation is screened to the north and east by heavy brush and 15- to 20-foot, mixed, broadleaf trees growing near and on an embankment which is approximately 15 feet high and which borders part of the substation. The new installations would have little visual impact on the adjacent properties. All additions would be lower in height than existing structures in the substation.

The addition of the capacitor banks is not expected to increase the sound level along the property line.

The capacitor banks would be mounted on concrete foundations reaching approximately five feet into the ground. No sumps are planned. The oil used in the capacitors have a PCB concentration of less than 50 PPM. Is is rated non-PCB by the U.S. Environmental Protection Agency and is not regulated as a hazardous substance.

According to NU, the proposed additions would not affect television or radio reception in the area. The proposed project would not affect any wetlands or waterways and is not within a 100-year flood-hazard zone or stream channel encroachment line. No zoning approvals from the City of Stamford are required.

Construction would commence in September 1987, and should be completed by the end of October 1988.

The Review Team recommends that NU minimize the embankment cutting to preserve as much of the screening greenery as possible and maintain erosion control.

Thomas E. Fanning, Jr.
Siting Analyst

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