



# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

1 CENTRAL PARK PLAZA • NEW BRITAIN, CONN. 06051

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Staff Report  
Petition No. 168  
Northeast Utilities  
Connecticut Yankee Station  
December 22, 1986

Pamela B. Katz, Mortimer A. Gelston, Colin C. Tait, and Thomas E. Fanning, Jr., of the Siting Council met Donald Biondi, Richard Meister, John Clark, and James Lubs of Northeast Utilities (NU) on Monday, December 8, 1986, for a field review of proposed construction of a new three level structure. This building would be located immediately east of the existing diesel generator building and adjacent to the primary auxiliary building within the secured confines of the facility. The purpose of the proposed building is to contain redundant switchgear electrical equipment, an electrical maintenance shop, and a laundry facility for cleansing slightly radioactive respirator equipment. The building would measure approximately 34 feet by 64 feet by 58.5 feet in height.

NU responses to Council pre-field review inquiries clarified the nature of the fire suppression system used on each floor of the building, the radioactive material emission controls to be used, and the switchgear equipment to be contained in the proposed building. NU states that a fire starting in any area of the building would be contained in its immediate area and suppressed by the automatic extinguisher systems. The building design would prevent the release of low-level contaminated particles during normal operations. Potential radiation levels are considered to be insignificant compared to normal background radiation. Additional documentation from the Nuclear Regulatory Commission regarding fire protection regulations of redundant electrical equipment was also provided to the Council.

The building is located in a built-up area of the station and would blend in with the physical appearance of the adjacent structures. No flood plain or wetland areas would be affected, and no stream channel encroachment would result from the construction work.

NU plans to begin construction in April 1987, with system tie-ins and testing completed by January 1989.

A company representative brought to the attention of the Council members that a penthouse-like structure would be necessary. This was not shown in the original petition, but has been recommended

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by NU's consultant for additional protection from winds or objects launched by a tornado. The structure would increase the overall height of the building to approximately 70 feet, extending 28 feet above the diesel generator building. It would have a whip-type radio antenna attached. Council members requested that NU provide a blueprint showing the additional structure, the building profile, and the antenna placement. Mr. Clark agreed.

Thomas E. Fanning, Jr.  
Siting Analyst

TEF/go

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