



# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

136 Main Street, Suite 401  
New Britain, Connecticut 06051  
Phone: 827-7682

Petition No. 202  
East Shore Substation  
Staff Report  
March 3, 1988

United Illuminating Company (UI) is requesting a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for improvements to its East Shore Substation (substation) located at UI's New Haven Harbor Station, New Haven, Connecticut.

Owen L. Clark and Dr. James G. Horsfall, members of the Siting Council and Thomas E. Fanning, Jr., staff of the Siting Council met with UI representatives Robert Klanko and David Damers on February 18, 1988, and inspected the locations of the proposed improvements to the substation.

The proposed work would involve the installation of two additional lighting protection cables and associated equipment. The wires would be attached to opposite ends of the top cross brace of tower no. 8918 and extend approximately 525 feet to the opposite ends of the cross brace on the 345-kV take-off structure in the substation. These proposed shield wires would reinforce two existing shield wires attached to tower no. 8918. They would further protect the transmission line entering the substation and two autotransformers connected to the incoming line.

The work is needed due to a recent failure of a 345-kV lightning arrester and the number of recorded lightning arrester operations at the substation. The two proposed shield wires would increase the reliability of the equipment in the substation and decrease the risk of transmission system outages. The loss of this equipment would restrict the transfer of electricity from the generators to the transmission system in New Haven and East Haven.

Construction would be scheduled for the spring or summer of 1988.

Pétition No. 202  
Staff Report  
Page 2

All proposed construction would be located within UI's right-of-way and substation. A temporary short-term outage of this transmission line would be needed to complete the installation.

No construction activity would take place in existing wetlands and no rehabilitation would be necessary.

Thomas E. Fanning, Jr.  
Siting Analyst

TEF/cp

1031E