



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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Petition No. 337

Northeast Utilities Service Company
Proposed Transmission Line Modifications
Brookfield and New Milford, Connecticut
Staff Report
February 9, 1995

On February 1, 1995, Connecticut Siting Council (Council) Chairman Mortimer A. Gelston, Council member Gloria Dibble Pond and Robert K. Erling of the Council staff met Michael Carlson of Northeast Utilities (NU) for a field review of proposed transmission line modifications in the Towns of Brookfield and New Milford, Connecticut.

NU is proposing to modify the existing West Brookfield - Shepaug 115-kV transmission line which presently by-passes the Stony Hill substation in Brookfield. A southerly Plumtree - Stony Hill - Bates Rock line enters the Stony Hill substation on single circuit wooden pole structures. These circuits connect through a 115 kV circuit breaker in a "loop through" arrangement. NU proposes to connect both lines from the west. This would result in a West Brookfield - Stony Hill - Bates Rock 115 kV circuit. To do this, NU would remove conductor taps from a lattice tower, number 4647, and break the connection into Stony Hill substation. The conductor phases of the southerly circuit would then be relocated from tower 4647 onto a new three-pole wood structure, approximately 48 feet in height. Line post insulators would be installed on tower 4647 to carry conductor loops from the remaining northerly line on this tower to the existing tap span, thereby creating a West Brookfield - Stony Hill - Shepaug 115 kV circuit. No new access road would be required for this work, although one tree would have to be removed, along with some brush clearing, to accommodate the new three pole wood structures.

In New Milford, two existing spans of 4/0 copper conductor into the Rocky River substation would be replaced with 795 kcmil 45/7 ACSR to increase circuit capacity. This would not require any structure work.

The above modifications are needed to relieve expected 4/0 copper conductor overloads during emergency conditions and to improve voltage conditions at both the Rocky River and West Brookfield substations.

NU expects construction to begin in April 1995 and be completed by the end of May 1995.

NU proposes that these modifications would not have a substantial environmental effect and therefore would not require a Certificate of Environmental Compatibility and Public Need.

Robert K. Erling
Senior Siting Analyst