middletown | norwalk

January 28, 2005

VIA HAND DELIVERY AND ELECTRONIC MAIL

Pamela B. Katz
Chairman
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06505

Re: **Docket No. 272** - The Connecticut Light and Power Company and The United Illuminating Company Application for a Certificate of Environmental Compatibility and Public Need for the Construction of a New 345-kV Electric Transmission Line and Associated Facilities Between Scovill Rock Switching Station in Middletown and Norwalk Substation in Norwalk, Connecticut Including the Reconstruction of Portions of Existing 115-kV and 345-kV Electric Transmission Lines, the Construction of the Beseck Switching Station in Wallingford, East Devon Substation in Milford, and Singer Substation in Bridgeport, Modifications at Scovill Rock Switching Station and Norwalk Substation and the Reconfiguration of Certain Interconnections.

Dear Chairman Katz:

During the hearings held on January 18-20, 2005, the Companies were asked to prepare a presentation for the Council of aerial maps for all segments of the proposed route. Enclosed are four copies of the maps for the overhead portions of the route in segments 1 and 2, which will be reviewed during the February 1st hearing. (The maps for the underground portion of the route were previously filed (See Exhibit 173)). As requested by the Council, the maps for the overhead portion of the route include a line along both sides of the right-of-way representing the 6 mG line for the "15 GW case," assuming the use of low magnetic field designs. For cross section 8 (Cook Hill Junction to East Devon Substation), there is no 6mG line plotted as the magnetic field does not reach that level for the "15 GW Case" using the low magnetic filed design selected for this mapping assignment.

The Companies also enclose four copies of typical cross section drawings for the low magnetic field designs assumed in preparing the aerial maps of the overhead segments. The designs for each cross section and typical structure heights are described in the table on the next page. The enclosed drawings supplement the cross section drawings presented in Volume 10 of the Application.

The Companies request bulk filing status for the enclosed maps and cross section drawings. We are sending to each municipal representative a hard copy of the portion of the aerial maps corresponding to his/her town and a hard copy of the cross section drawings. We are sending all parties and intervenors an electronic version of the cross section drawings. The aerial maps are too large for electronic transmittal. A CD-ROM containing the maps will be provided upon request to Sharon Castater at Northeast Utilities (castasj@nu.com or (860) 665-5024). In addition, complete sets of the maps and cross section drawings are being sent to the Attorney General and the Office of Consumer Counsel.

LOW MAGNETIC FIELD DESIGNS
ASSUMED IN PREPARING AERIAL MAPPING

Cross Section	Description	Typical Height
Cross section 1	345-kV Delta (optimized height & phasing)	85'
Cross section 2 (except Royal Oak)	As Proposed (Monopole)	105'
Cross section 2 (Royal Oak/existing ROW)	115-kV split phase	90'
Cross section 2 (Royal Oak bypass)	345-kV split phase	150'
Cross section 3	Proposed monopole plus 10'	140'
Cross section 4	Proposed monopole plus 10'	140'
Cross section 5	Reconstructed ROW (Vertical Construction)	130'
Cross section 6 East	345-kV split phase/vertical 115-kV	105' and 80'
Cross section 6 West	As Proposed (Monopole)	105'
Cross section 7A	345-kV split phase	130'
Cross section 7B	345-kV split phase offset in ROW; both 115-kV UG	130'
Cross section 8A	345-kV split phase plus 30' with one 115-kV circuit UG	135' & 110'
Cross section 8B	345-kV split phase plus 30'; 115-kV double circuit plus 30'	135' & 110'

Sincerely,

Anne Bartosewicz
Project Director
Northeast Utilities Service Company

John J. Prete
Project Director
The United Illuminating Company

cc: Service List