



**Northeast
Utilities System**

107 Selden Street, Berlin CT 06037

Northeast Utilities Service Company
P.O. Box 270
Hartford, CT 06141-0270
(860) 665-5000

February 21, 2006

Ms. Pamela B. Katz
Chairman
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: Docket No. CSC-272 - D&M Plans - Segment 1a

Dear Ms. Katz:

This letter provides the response to requests for the information listed below.

Response to CSC-03 Interrogatories dated 01/31/2006
D&M - 026

Very truly yours,

Anne Bartosewicz
Project Director
Transmission Business
NUSCO
As Agent for CL&P

AB/tms
cc: Service List

**Witness: NO WITNESS
Request from: Connecticut Siting Council**

Question:

Provide an alternate design incorporating Powder Hill Road, Skeet Club Road and Elihu Drive resident requests and concerns. (addition or deletion of structures and make best use of structure height and alignment are encouraged)

Response:

Resident requests from the Powder Hill Road, Skeet Club Road and Elihu Drive neighborhoods were reviewed during the fall of 2005. (Please refer to the Segment 1a D&M Plan, Appendix B, letter to First Selectwoman Board dated November 15, 2005). As this correspondence illustrates, CL&P made efforts to incorporate all the inconsistent resident requests from these neighborhoods.

The placement of structures #24509 (180' feet tall) and #24510 (130' feet tall) in the Powder Hill Road neighborhood were discussed at length and agreed upon with property owner Fred Bulmer. Structure #24511 (150' feet tall) was moved 150' feet to the west of the existing structure location (to be next to a nearby residence), thereby maximizing the height of the conductors in compliance with the CSC Decision and Order in Docket No. 272 for a low magnetic field design opposite this residence. Should lower structure heights be preferred, while still maintaining low magnetic field design, structure #24511 can be relocated 140' feet to the east, which is back near its original location, thereby allowing the height of this structure to be reduced from 150' feet to 140' feet.

The locations of #24512, #24513 and #24514 in the Skeet Club/Elihu Drive neighborhood were influenced by wetlands, roadways, railroad right-of-ways, and attempts to avoid a change in the viewscape of the surrounding residents. Based upon these considerations, these structures are proposed at the locations of existing structures. Alternate line designs with shifted structure locations resulted in additional impacts to wetlands, additional and/or taller structures, and impacts to adjacent neighbors (Lyman Meadows Golf Club).

In compliance with the CSC Decision and Order in Docket No. 272 for a low magnetic field design in the Skeet Club/Elihu Drive area, structure #24512 and #24513 are both 185' feet tall, and structure #24514 is 115' feet tall. CL&P provided shorter structure options during a public municipal meeting in Durham on August 17, 2005 (see the attached handout which displays this alternate transmission line design). Please note that for each structure there is a minimum height requirement which provides adequate line clearances. These minimum heights are 120' feet for structure #24512, 135' feet for structure #24513, and 115' feet for structure #24514. In addition, structure #24511 can be reduced in height from 150' feet to 120' feet.



CSC-03 Q-D&M-026 Attachment.ppt

Comparing Structure Height to Magnetic Field

CL&P Docket No. 272
 Data Request CSC-03
 Dated 01/31/2006
 Q-D&M-026-Page 2 of 2



■ 105'



■ 135'



■ 175'

Calculated Milligauss Levels

Distance:	----- Right of Way -----																										
	150'	135'	120'	105'	90'	75'	60'	45'	30'	15'	S/E Edge	50'	25'	Center	25'	50'	N/W Edge	15'	30'	45'	60'	75'	90'	105'	120'	135'	150'
■ 105' Pole	3.6	4.2	4.9	5.7	6.9	8.4	10.3	13.1	16.9	22.3	30.4	40.4	69.0	79.8	46.9	22.8	17.1	12.6	9.8	7.8	6.4	5.4	4.5	3.9	3.4	3.0	2.6
■ 135' Pole	3.3	3.7	4.3	5.0	5.8	6.9	8.2	9.9	11.9	14.5	17.6	20.5	25.6	26.2	21.0	14.6	12.2	9.8	8.0	6.6	5.6	4.8	4.1	3.6	3.1	2.8	2.5
■ 175' Pole	2.8	3.1	3.5	4.0	4.5	5.1	5.8	6.5	7.4	8.3	9.2	9.9	10.8	10.8	9.8	8.2	7.4	6.5	5.7	5.0	4.4	3.8	3.4	3.0	2.7	2.4	2.2

