



Northeast
Utilities System

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June 24, 2004

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

Re: Docket No. 272 - Middletown-Norwalk 345kV Transmission Line

Dear Ms. Katz:

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

While it is not possible to provide all the information requested at this time, the Company is attaching the information which has been completed.

Response to TOWNS-07 Interrogatories dated 05/17/2004
TOWNS - 087 , 088 , 092 , 093

Very truly yours,

A handwritten signature in blue ink that reads "Anne B. Bartosewicz" followed by a circled number "3" and a circled number "4".

Anne B. Bartosewicz
Project Director - Transmission Business

ABB/dd
cc: Service List

CL&P/UI
Docket No. 272

Data Request TOWNS-07
Dated: 05/17/2004
Q- TOWNS-087
Page 1 of 1

Witness: Allen W. Scarfone
Request from: TOWNS

Question:

Provide projections of average load and peak load in gigawatts (GW) for the years 2003, 2010, 2020, 2030 and 2040 using the same assumptions utilized in arriving at average and peak loads of 15GW and 27.7GW, respectively.

Response:

The average New England load for 2003 was 14.9 GW. The peak New England load for 2003 was 24.7 GW. According to the NEPOOL/ISO-NE April 2004 Forecast Report of the Capacity Energy Loads and Transmission (CELT), the reference peak load for 2010 is 27.7 GW. Neither ISO-NE nor the Companies produce load forecasts beyond the 10 year horizon, nor do they produce average load forecasts. Peak load forecasts are extremely dependent on weather and economic conditions, thus the forecast trend cannot be projected with any degree of certainty beyond a ten year period. Therefore, forecasts are not available for the years 2020, 2030, or 2040.

CL&P/UI
Docket No. 272

Data Request TOWNS-07
Dated: 05/17/2004
Q- TOWNS-088
Page 1 of 1

Witness: Allen W. Scarfone
Request from: TOWNS

Question:

With respect to the calculations provided in Interrogatory 20, provide the number of hours during each such year that the load is projected to be, (i) 90% of the peak; (ii) 75% of the peak; (iii) 50% of the peak; and (iv) 25% of the peak.

Response:

While loads have continuously increased over the years, the shape of the load duration curve remains generally similar from year to year. Therefore, the Companies assume that the load duration curve will continue to have a similar shape in future years as it has in the past. The estimated hours based on 2003 are contained in the table below.

Load Level	Number of Hours
90% of peak load or lower	8664
75% of peak load or lower	7856
50% of peak load or lower	1946
25% of peak load or lower	0

CL&P/UI
Docket No. 272

Data Request TOWNS-07
Dated: 05/17/2004
Q- TOWNS-092
Page 1 of 1

Witness: Allen W. Scarfone
Request from: TOWNS

Question:

Will the frequency on the proposed 345 Kv line ever vary from 60 Hz?

Response:

Yes. In accordance with NERC operating polices the fundamental frequency is maintained at 60 Hz. However, due to mismatches between load and generation, the frequency may deviate from minute to minute from 60 Hz. Deviations are maintained within a tight bandwidth, typically less than 0.04 Hz.

CL&P/UI
Docket No. 272

Data Request TOWNS-07
Dated: 05/17/2004
Q- TOWNS-093
Page 1 of 1

Witness: Allen W. Scarfone
Request from: TOWNS

Question:

If the answer to Question 25 is yes, provide the frequencies in Hz and the number of hours calculated during each of the years 2003, 2010, 2020, 2030, 2040 and 2050 that such frequencies on the proposed 345 kv line shall be achieved.

Response:

Independent of the forecast year, the system will be operated within a very small band around 60 Hz. A review of system frequency data from Spring 2004 shows that the maximum and minimum frequencies were 60.04 Hz and 59.96 Hz respectively.

SERVICE LIST

Docket: 272

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