



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

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September 13, 2004

DOCKET NO. 292 - The Connecticut Light & Power Company application for a Certificate of Environmental Compatibility and Public Need for the construction and operation of 8.7 miles of new underground 115-kilovolt electric transmission cables extending from CL&P's existing Glenbrook Substation in the City of Stamford, through the Town of Darien, to CL&P's existing Norwalk Substation in the City of Norwalk

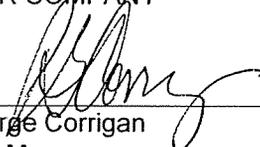
Dear Chairman Katz:

The Applicant, The Connecticut Light and Power Company (CL&P), has recently delivered responses to the Council's interrogatories of August 19, 2004, except for answers to questions 4, 12, 13, and 17. The responses to those questions required more extensive preparation and research to answer. The responses are now completed and enclosed.

CL&P appreciates the Council's indulgence and if there is any question regarding CL&P's responses to these outstanding interrogatories please do not hesitate contact Robert Golden at 203-575-2630 or me at 860-665-2358.

Respectfully submitted,

THE CONNECTICUT LIGHT AND
POWER COMPANY

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Docket: CSC 292

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Witness: CL&P Panel
Request from: Connecticut Siting Council

Question:

Document conservation and load management programs from 1990 to 2003 and their impacts on the State of Connecticut and Southwest Connecticut.

Response:

The requested statewide information for years 1990 through 2001 was previously provided in Docket 217 in response to interrogatory CSC-01, Q-CSC-006. This information has been updated to include the statewide impacts of conservation and load management programs in 2002 and 2003.

Year	Dollars Spent (\$000)	Annual Savings (MWh)	Lifetime Savings (MWh)
1990	33,969	154,686	2,217,664
1991	74,529	257,323	3,523,250
1992	44,422	179,393	2,585,337
1993	37,573	126,493	1,898,149
1994	30,487	113,188	1,751,494
1995	32,852	108,946	1,794,173
1996	27,017	109,878	1,645,846
1997	32,691	141,809	2,343,110
1998	27,120	123,565	1,788,819
1999	25,367	108,770	1,612,341
2000	58,206	185,664	2,829,325
2001	60,990	232,016	3,603,305
2002	52,254	184,627	2,892,644
2003	31,821	91,128	1,490,831

Prior to 2002, Southwest Connecticut (SWCT) was not a defined or targeted geographical region for the purposes of conservation and load management program implementation. As such, specific SWCT data was not uniquely tracked. In its May 29, 2002 Decision in Docket 02-01-22, the Department of Public Utility Control (DPUC) directed CL&P to add a special conservation and load management emphasis on the SWCT region. In response to this need, during the latter half of 2002, CL&P increased its conservation and load management efforts in that region to help address potential shortfalls in supply of electricity in the area. However, specific tracking mechanisms were not in place to capture detailed energy savings data. In recognition that these constraints were expected to continue for several years, CL&P allocated approximately 53 percent of its 2003 conservation and load management program budget to Southwest Connecticut (16% greater than the regions' contribution to the Conservation and Load Management Fund). However, as a result of the State's budget crisis and related legislative actions, statewide conservation and load management programs were curtailed and subsequently suspended in June of 2003. Partial funding of conservation and load management programs was restored in September of 2003.

The Connecticut Light and Power Company
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Data Request CSC-01
Dated: 08/19/2004
Q- CSC-012
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Witness: CL&P Panel
Request from: Connecticut Siting Council

Question:

How often along the proposed route would a construction support site be needed?

Response:

Construction support sites would be needed for temporary storage, staging, and materials laydown. The Project construction contractor would be responsible for selecting construction support sites for the underground transmission line construction and for determining how many sites are required. These decisions would be based on the contractor's detailed construction sequence and materials management. Based on similarly sized projects, three or four active construction support sites along the approximate nine-mile route are expected.

CL&P anticipates that construction support sites would be submitted to the CSC for review and approval as part of the Development and Management (D&M) Plan for the Project or – if not available at the time of the D&M Plan preparation – as an amendment to the Plan.

As discussed in Section K of the Application, additional temporary work sites will also be needed for set-up at water crossings, daily staging areas in the immediate vicinity of the work areas, and field office(s).

Witness: CL&P Panel
Request from: Connecticut Siting Council

Question:

What steps could reduce the magnetic field that is expected from the proposed cable directly over the trench?

Response:

There are a number of options to reduce magnetic fields from underground transmission systems. However, some of these options are accompanied by significant negative impacts on: construction time, restoration of roadways to use, cable repairs, operational limitations, and cost.

Some of the options are:

- Installing cables deeper in the ground. Increasing the depth of burial decreases cable ampacity, i.e., the ability to carry current. Larger or additional cables may be needed in order to meet the current-carrying requirements of the circuit.
- Optimally phasing a circuit's conductors in relation to the phase conductors of other circuits in a ductbank or splice vault.
- Placing cables closer together. This increases mutual heating between the conductors and reduces cable ampacity. Larger or additional cables may be needed in order to meet the current-carrying requirements of the circuit.

As an engineering principle, shielding (e.g., steel pipes over cables or steel plating over ductbanks and vaults) also could reduce the magnetic field. CL&P is in the process of gathering information on industry experience in order to determine if this is practical, and CL&P will report further.

The Connecticut Light and Power Company
Docket No. CSC 292

Data Request CSC-01
Dated: 08/19/2004
Q- CSC-017
Page 1 of 1

Witness: CL&P Panel
Request from: Connecticut Siting Council

Question:

In the Traffic Management Study (Appendix D), explain the discrepancy, in the time of construction, between some of the traffic summary text in section IV and the graphical representation of the traffic summary.

Response:

We have reviewed the time of construction data in the text and in the graphical representations. The times given in the text of the Traffic Management Study (Appendix D) are correct with one exception in the text for the Northern Route Alternative on page 29: The section of Route 106 between Weed Street and Farm Road should indicate the allowable hours are between 9:00 AM and 3:00 PM instead of 10:00 AM and 2:00 PM.

A number data tables and graphic representations require correction.

Included as BULK are the revised pages 14, 16-26, 29, and 32-45 of the Traffic Management Study (Appendix D.)

CL&P will provide soon a complete revised Traffic Management Study (Appendix D) incorporating these changes.

*Due to the bulk nature of this material the Company is requesting bulk filing status.