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May 16, 2007

Daniel F. Caruso, Chairman
Connecticut Siting Council
10 Franklin Square
New Britain CT 06051

RE: DOCKET NO. 327: The Connecticut Light and Power Company Application
for a Certificate of Environmental Compatibility and Public Need for the
Construction, Maintenance, and Operation of a Proposed Substation Located
off Commerce Park Drive, Oxford, Connecticut

Dear Chairman Caruso:

Enclosed please find, with regard to Docket No. 327, the original and 20 copies of the
Supplemental Pre-Filed Testimony of Kenneth B. Bowes regarding conservation and loan
management programs.

Very truly yours,



Robert S. Golden, Jr.

**STATE OF CONNECTICUT
SITING COUNCIL**

THE CONNECTICUT LIGHT AND POWER	:	
COMPANY APPLICATION FOR A CERTIFICATE	:	
OF ENVIRONMENTAL COMPATIBILITY AND	:	DOCKET NO. 327
PUBLIC NEED FOR THE CONSTRUCTION,	:	
MAINTENANCE, AND OPERATION OF A	:	
PROPOSED SUBSTATION LOCATED OFF	:	
COMMERCE PARK DRIVE, OXFORD,	:	
CONNECTICUT	:	May 16, 2007
	:	
	:	

SUPPLEMENTAL PRE-FILED TESTIMONY OF KENNETH B. BOWES
REGARDING CONSERVATION AND LOAD MANAGEMENT MATTERS
CONCERNING
THE PROPOSED OXFORD SUBSTATION

Q. What is the purpose of this supplemental testimony?

A. I want to address, in more detail, The Connecticut Light and Power Company's ("CL&P's") efforts at conservation and load management both generally and in the specific areas driving the need for the Oxford Substation and to inform the Council about CL&P's experience with load response programs in the service area of the Oxford Substation.

Q. Why were you unable to file this testimony with your earlier testimony?

A. Load management and conservation programs are in a dynamic state. New programs and solutions are constantly being developed and CL&P wanted to bring the most current and relevant information before the Council.

Q. What was your experience with load response programs in the area driving the need for the Oxford Substation?

A. CL&P has contacted a number of customers in the areas served by the Beacon Falls, Bates Rock, South Naugatuck Substations, and the proposed Oxford Substation to participate in the ISO New England Load Response program and determine if they will consider installing distributed generation (“DG”) or combined heat and power (“CHP”) projects. To date approximately 2.5 MW of generators at multiple customer locations are under consideration during the 2007-2009 time frame.

Below is a table summarizing the amount of interruptible load available from the Load Response Contracts that CL&P has signed with customers in Naugatuck and Oxford.

Anticipated Load Reduction Savings for Summer 2007 Peak Demand Crisis Event	
TOWN	kW
Naugatuck	1892
Oxford	450
TOTAL	2,342

Customers in the Towns of Beacon Falls, Bethany, Middlebury, Naugatuck, Oxford, Prospect, Roxbury, Seymour, Southbury, Waterbury and Woodbury are served by the Beacon Falls, Bates Rock, South Naugatuck Substations, and, if approved, the future Oxford Substation. The Council may wish to review CL&P’s responses to the Connecticut Energy Advisory Board’s (“CEAB’s”) interrogatories CEAB 12 through 14, which are found in Appendix B of the CEAB’s Assessment of CL&P’s Oxford Substation, filed with the Council on April 5, 2007, for more information on CL&P’s efforts.

Q. Please give us a brief overview of other programs that are available to these customers to lessen demand.

A. In addition to the above-mentioned Load Response program, CL&P also offers an array of traditional energy efficiency or demand side management (“DSM”) programs through the Connecticut Energy Efficiency Fund (“CEEF”) to these residential, commercial and industrial customers.

Since 2005, CL&P estimates that through participation in these CEEF programs, customers in these eleven towns have achieved peak-demand savings of approximately 11 MW and will save approximately 475,923,852 kWh of energy over the life of the installed measures.

Q. Please tell the Council about CL&P’s energy reduction efforts for residential customers.

A. CL&P Residential Energy Efficiency Programs include:

- The Comprehensive In-home Services Program which includes advanced weatherization, duct sealing and installation of other energy-saving technologies (compact fluorescent bulbs) and appliance replacement/insulation rebates.
- The Weatherization Residential Assistance Partnership Program that helps low-income customers (renters or owners) with conservation services.
- Promoting the purchase of energy-efficient lighting products and clothes washers by retail incentives/markdowns through the CEEF.

- Promoting the installation of geothermal heat pumps which are among the most efficient heating and cooling technologies currently available because they use the earth's stable temperature. Once they are installed, a home or building owner can save money on their heating/cooling bills and save the environment by reducing the amount of pollution produced by fossil fuel systems.
- An ENERGY STAR®-qualified home Program to achieve the greatest level of energy efficiency through the use of reliable, advanced building techniques and high-quality materials. Through CL&P and CEEF, one can build a home and earn incentives for installing energy-efficient measures and may also qualify for federal tax credits for installing energy-efficient measures in your home.

Q. Please explain CL&P's energy reduction efforts for commercial and industrial customers.

A. CL&P Commercial/Industrial Energy Efficiency Programs include:

- The Energy Opportunities Program to improve the energy efficiency of a customer's existing facility by capturing retrofit opportunities.
- The Energy Conscious Blueprint Program to encourage customers to install energy-efficiency measures when they are most cost-effective -- at the time of construction. The Program pays the average incremental costs associated with more expensive, energy-efficient equipment.

- Provide turnkey, energy-saving products and services for small business customers. There are no up-front customer costs. CL&P pays substantial incentives for retrofit lighting measures and other eligible energy-efficiency measures.
- Demand Response and Price Response Programs (CL&P and ISO New England) provide incentives to large power users to reduce their electric demand in response to either a price event or a system reliability event. This is for customers with 100 kW - 5,000 kW of load to interrupt.
 - Some specific examples of demand response initiatives in progress in the Oxford area are:
 - Connection of a 500 kW emergency generator located at the new High School planned to be connected and ready to respond to an ISO New England event beginning fall 2007.
 - Working with a company (who has five locations, three of which are located within Oxford, Seymour and Naugatuck) to sign an ISO load response contract beginning May 2007.
 - Working with a company in the Willenbrock Industrial Park to install a 400 kW emergency generator for use in participating in the ISO New England demand response program.
- Help customers understand how much demand (kW) they use at different times of the day to provide insight on potential load reduction opportunities and development of a facility-specific strategy to reduce kW demand.

- Reduce energy consumption by providing technical assistance and incentives to perform waste-eliminating maintenance procedures on HVAC and industrial production systems.
- Provide an initial, no-cost, facility walk-through assessment with a comprehensive productivity audit, and, if necessary, a Focused Study.
- Provide an interest-free loan for the installation of electric energy-saving measures. Maximum loan is \$250,000; minimum \$5,000 with up to a six-year loan payback period.

Q. Please summarize CL&P's experience in the area to be served by the Oxford Substation.

A. In the Oxford Substation area, CL&P continues to pursue conservation and load management programs throughout its system and offers programs to customers located in the areas that will be served by the Oxford Substation.

Below is a table summarizing by town the summer peak kW savings achieved through residential, commercial and industrial DSM (Energy Efficiency) Programs. The vast majority of these results are due to CL&P's ENERGY STAR®- Qualified Home Program, primarily in Oxford.

Sum of all CL&P CEEF Summer Peak kW saved and accumulated over 24 months (2005, 2006)	
TOWN	kW
Beacon Falls	429
Naugatuck	450
Oxford	1,267
TOTAL	2,146

Q. Does this conclude your supplemental testimony?

A. Yes.