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Utilities System**

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May 15, 2006

Mr. S. Derek Phelps
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: Docket F-06 - Connecticut Siting Council Review of 2006 Forecasts of Electric Loads and Resources

Dear Mr. Phelps:

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

Response to CEAB-02 Interrogatories dated 04/24/2006
CEAB-001, 002, 003, 004, 005, 006, 007, 008, 009

Very truly yours,

A handwritten signature in black ink, appearing to read "Paula M. Taupier".

Paula M. Taupier
Manager
Regulatory Policy - Transmission
NUSCO
As Agent for CL&P

PMT/dd
cc: Service List

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Docket F-06

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The Connecticut Light and Power Company
Docket No. F-06

Data Request CEAB-02
Dated: 04/24/2006
Q-CEAB-001
Page 1 of 1

Witness: Allen W. Scarfone
Request from: Connecticut Energy Advisory Board

Question:

Has the Company performed or participated in (i.e., as a project manager or team project member, by providing data and information, or by performing analyses and technical assistance) system planning studies related to potential projects to increase transmission transfer capabilities into or within Connecticut that are not described in its F2006 filings to the Siting Council? If so, please briefly describe the Company's role in each such study.

Response:

No. The Company described its ongoing transmission planning activities to significantly increase transfer capabilities into and within Connecticut in Chapter 5 of its 2006 Forecast of Loads and Resources for the Period 2006 - 2015 ("Report").

In general, the Company's role is to provide technical assistance to ISO-NE in performing transmission system analyses. This support role may include data acquisition, power-flow analyses and technical reviews of planning studies.

The Connecticut Light and Power Company
Docket No. F-06

Data Request CEAB-02
Dated: 04/24/2006
Q-CEAB-002
Page 1 of 1

Witness: Allen W. Scarfone
Request from: Connecticut Energy Advisory Board

Question:

If Question 1 is answered in the affirmative, please provide a brief description of each such proposed project.

Response:

See response to Data Request CEAB-02, Q-CEAB-001.

The Connecticut Light and Power Company
Docket No. F-06

Data Request CEAB-02
Dated: 04/24/2006
Q-CEAB-003
Page 1 of 1

Witness: Allen W. Scarfone
Request from: Connecticut Energy Advisory Board

Question:

If Question 1 is answered in the affirmative, please provide a copy of all studies, analyses or reports in the Company's possession that address any such proposed project(s).

Response:

See response to Data Request CEAB-02, Q-CEAB-001.

Witness: Allen W. Scarfone
Request from: Connecticut Energy Advisory Board

Question:

Is the Company performing or participating in (i.e., as a project manager or team project member, by providing data and information, or by performing analyses and technical assistance) any study of potential transmission improvements that would allow the capacity from the Lake Road generating facility to be recognized by ISO New England as firm capacity in Connecticut? If so, please briefly describe the Company's role in each such study.

Response:

Yes, the Company is actively seeking solutions which if implemented would allow ISO-NE to classify Lake Road as Connecticut generation. These solutions have been somewhat elusive given the lack of stable and clear New England capacity market rules. With the settlement of the LICAP proceedings, the Company expects ISO-NE to identify the detailed capacity market rules to allow it to approve a solution later in 2006. In the mean time, the Company has been pursuing the three separate courses of action described in more detail below.

Special Protection System Modifications:

The Company is working with the Lake Road Generating Company and ISO-NE to study whether the special protection system ("SPS") at the Lake Road Substation that was installed to protect the generator shafts from high mechanical torques can be removed. The Lake Road Generating Company has hired their generator manufacturer (Alstom) to assess the risk of equipment damage during 345-kV line trip and reclose operations. The Company believes the manufacturer's study will be available in the Fall 2006.

Currently the Lake Road generating units are tripped off-line by the SPS whenever there is an outage of an interconnected 345-kV line, however brief. CL&P is working with the Lake Road Generating Station to further analyze the impact of 345-kV transmission line trip and reclose operations on generator shafts with the Killingly Substation in-service to see if the SPS can be removed. The Killingly Substation is planned to be in-service by December 2006. The removal of the SPS and ISO-NE's review of stability considerations in the area may together allow some of the Lake Road units to be considered as Connecticut generation resources. This analysis is the current focus of Lake Road, ISO-NE and the Company.

If the SPS can not be removed following this analysis, the Company, Lake Road Generating Company and ISO-NE may next study the use of reactive compensation in the 345-kV Lake Road - Killingly transmission line to help reduce high mechanical torques sufficiently to remove the SPS.

Lake Road Interconnection Modifications:

The Company is working with the Lake Road Generating Company and ISO-NE to study modifications to the generator's interconnection to allow some or all of the Lake Road generating units to be considered as generation capacity resources in Connecticut. Currently, the three Lake Road generating units are interconnected to the 345-kV transmission grid at Lake Road Substation, which is located adjacent to the generating units. Each generator has a dedicated 21/345-kV generator step-up transformer.

Located approximately ¾ miles east of this site is CL&P's planned Killingly 345/115-kV Substation, which is under construction and scheduled to be operational by December 2006. The 345/115-kV substation will be connected to the existing 345-kV Lake Road to Sherman Road (RI) 347 line. Two existing 115-kV lines that presently connect CL&P's Tunnel Substation in Preston to Tracy Substation in Putnam will be modified to interconnect with the new 115-kV facilities at the Killingly Substation.

On July 14, 2005, Mr. Zaklukiewicz (CL&P witness) testified before the Connecticut Siting Council in Docket F-2005 concerning a concept to interconnect some of the Lake Road generating units into the 115-kV system at the new Killingly Substation following the Killingly Substation completion. Assuming removal of the SPS is not possible, the Company plans next to study two options for a 115-kV system interconnection, each employing two 115-kV underground cables from the Lake Road Substation to the 115-kV bus at the new Killingly Substation.

Option A. Replace the existing Lake Road 21/345-kV generator step-up transformers with new 21/115-kV generator step-up transformers for two of the three generating units, with each step-up transformer connecting to one of the 115-kV cables to the Killingly Substation.

Option B. Install a new 345/115-kV autotransformer at the Lake Road Substation, connect it to the two 115-kV cables to Killingly Substation, and reconfigure the 345-kV facilities so the 21/345-kV step-up transformers for two of the three generating units connect only to this new autotransformer.

These Lake Road re-termination options could interconnect two Lake Road generating units with the eastern Connecticut 115-kV transmission system. CL&P has not estimated the costs of these underground cable plans, nor has CL&P performed the detailed engineering studies for ISO-NE to classify any of the Lake Road units as a Connecticut generation resource.

Another interconnection which is being considered as part of the SNETR studies is to connect the plant via a new 345-kV line to the Card Street substation.

Southern New England Transmission Reinforcement Analysis:

CL&P is working with National Grid and ISO-NE on a comprehensive review of the southern New England reliability problems. Planning studies have identified several interdependent system reliability problems that Connecticut shares with Massachusetts and Rhode Island. To address these problems, one option that is receiving consideration is the potential construction of a second 345-kV transmission line from CL&P's Card Street Substation in Lebanon to the Lake Road Substation and then on to a National Grid substation in northwest Rhode Island (via the new Killingly Substation).

Were this 345-kV line to be built, the new line may enable the Lake Road generating units to be counted as Connecticut generation capacity. The Company expects to learn by year-end whether this new 345-kV line is included in the preferred SNETR master plan.

The Connecticut Light and Power Company
Docket No. F-06

Data Request CEAB-02
Dated: 04/24/2006
Q-CEAB-005
Page 1 of 1

Witness: Allen W. Scarfone
Request from: Connecticut Energy Advisory Board

Question:

If Question 4 is answered in the affirmative, please provide a brief status report describing progress to date in any studies of potential transmission improvements that would allow the capacity from Lake Road to be recognized by ISO New England as firm capacity in Connecticut. Include a description of the system improvements that would be required to achieve the stated result.

Response:

See response to Data Request CEAB-02, Q-CEAB-004.

The Connecticut Light and Power Company
Docket No. F-06

Data Request CEAB-02
Dated: 04/24/2006
Q-CEAB-006
Page 1 of 1

Witness: Allen W. Scarfone
Request from: Connecticut Energy Advisory Board

Question:

If Question 4 is answered in the affirmative, please provide a copy of all analyses or reports in the Company's possession that address studies of potential transmission improvements that would allow the capacity from Lake Road to be recognized by ISO New England as firm capacity in Connecticut.

Response:

The analyses that address the potential transmission improvements that could allow the capacity from Lake Road to be recognized by ISO-NE as a Connecticut resource are not complete. ISO-NE will publish these reports when they are completed.

Witness: Allen W. Scarfone
Request from: Connecticut Energy Advisory Board

Question:

Is the Company performing or participating in (i.e., as a project manager or team project member, by providing data and information, or by performing analyses and technical assistance) any study of potential transmission improvements that would allow additional capacity from Devon Station or from other Connecticut generating facilities to be recognized by ISO New England as firm capacity in Connecticut? If so, please briefly describe the Company's role in each such study.

Response:

Yes, the Company is working with Devon Power and ISO-NE in performing transmission system analyses in the vicinity of the Devon Substation.

On March 10, 2006 Devon Power requested that ISO-NE perform a Feasibility Study for Devon Units 7 and 8. The Devon Units 7 and 8 have been in deactivated reserve status since 2004. Devon Power requested that ISO-NE conduct a transmission study to determine what elective upgrades, if any, are required in order to export power out of the Devon Substation, assuming other local generating units are in-service. CL&P is working on the Feasibility Study with ISO-NE and their consultant, Siemens.

On February 21, 2006 Devon Power requested that ISO-NE perform a System Impact Study (SIS) under the MIS standard for Devon Unit 10. CL&P is currently working on the SIS with ISO-NE. In the ISO-NE generation queue, Devon Power projected a commercial operation date of June 1, 2006 for Devon unit 10.

In general, the Company's role is to provide technical assistance to ISO-NE in performing transmission system analyses. This support role may include data acquisition, power-flow analyses and technical reviews of planning studies.

The Connecticut Light and Power Company
Docket No. F-06

Data Request CEAB-02
Dated: 04/24/2006
Q-CEAB-008
Page 1 of 1

Witness: Allen W. Scarfone
Request from: Connecticut Energy Advisory Board

Question:

If Question 7 is answered in the affirmative, please provide a brief status report describing progress to date in any studies of potential transmission improvements that would allow additional capacity to be recognized by ISO New England as firm capacity in Connecticut. Include a description of the system improvements that would be required to achieve the stated result.

Response:

See response to Data Request CEAB-02, Q-CEAB-007.

The Connecticut Light and Power Company
Docket No. F-06

Data Request CEAB-02
Dated: 04/24/2006
Q-CEAB-009
Page 1 of 1

Witness: Allen W. Scarfone
Request from: Connecticut Energy Advisory Board

Question:

If Question 7 is answered in the affirmative, please provide a copy of all analyses or reports in the Company's possession that address studies of potential transmission improvements that would allow additional capacity to be recognized by ISO New England as firm capacity in Connecticut.

Response:

See response to Data Request CEAB-02, Q-CEAB-007. ISO-NE will publish the Devon Power reports when they are completed in accordance with the regional system planning process.