The United Illuminating Company
157 Church Street
P.O. Box 1564
New Haven, CT 06506-0901
203.499.2000

ORIGINAL

June 3, 2009

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

Re: Docket No. F-2009 – Connecticut Siting Council Review of the Ten-Year Forecast of Connecticut Electric Loads and Resources – Response to Interrogatories of the Connecticut Siting Council

Dear Mr. Phelps:

The United Illuminating Company (UI) hereby provides responses to Interrogatories CSC-1 through CSC-9 in the above mentioned docket.

Respectfully submitted,

THE UNITED ILLUMINATING COMPANY

by Michael A. Coretto (dc)
Michael A. Coretto
Senior Director – Regulatory Strategy & Retail Access

MAC
cc: Service List

Interrogatory CSC-1

The United Illuminating Company
Docket No. CSC F2009

Witness: Christian Bilcheck

Q-CSC-1: In which municipalities would the Naugatuck Valley Reliability Improvement Project be located? Which substation(s) would be associated with this project?

A-CSC-1: The Naugatuck Valley Reliability Improvement Project is currently in its conceptual planning phase. However, UI anticipates the project will include transmission line upgrades in the municipalities of Shelton and Derby. Also at this time, no new substations are expected to be part of the project.

Interrogatory CSC-2

The United Illuminating Company
Docket No. CSC F2009

Witness: Christian Bilcheck

Q-CSC-2: In which municipalities would the Pequonnock Fault Duty Mitigation Project be located? Which substation(s) would be associated with this project?

A-CSC-2: The Pequonnock Fault Duty Mitigation Project is currently in its conceptual planning phase. However, UI anticipates the project will be located in the City of Bridgeport and will include a new 115 kV transmission switching station, modifications to the existing Pequonnock 115 kV Substation, as well as associated 115 kV transmission line upgrades in the area.

Interrogatory CSC-3

The United Illuminating Company
Docket No. F2009

Witness: Mike Ghilani

Q-CSC-3: What types of energy efficiency devices are installed as part of The United Illuminating Company's (C&LM) program?

A-CSC-3: The United Illuminating Company designs, implements and administers energy efficiency programs funded through the Connecticut Energy Efficiency Fund (CEEF), Regional Greenhouse Gas Initiative (RGGI) and Forward Capacity Market (FCM). These Programs target residential, commercial and industrial customers and help save money, energy and protect the environment.

Energy efficient fluorescent lighting currently comprises a significant portion of our residential and commercial and industrial program savings. We anticipate that LED lighting will play a larger role as the technology continues to progress in the future.

Residential HVAC and building envelope measures include efficient air conditioners, heat pumps, ducting/envelope sealing and insulation upgrades.

Commercial and industrial HVAC measures include high efficient chillers, variable speed drives and controls. We also have several installations of ice storage systems in our service territory.

In addition to these prescriptive incentives, the flexible nature of our program designs allow any devices that save customers electricity the ability to receive incentives under the programs.

Interrogatory CSC-4

The United Illuminating Company
Docket No. F2009

Witness: Mike Ghilani

Q-CSC-4: Describe any new and/or innovative conservation and load management energy savings measures that UI has recently put into use or is considering.

A-CSC-4: The C&LM programs that UI offers are the result of a collaborative effort between UI, CL&P and the various members of the Energy Conservation Management Board. As a result of that collaboration, the programs are continually evolving and providing the latest in energy efficiency offerings to UI's customers.

UI has fully integrated gas savings measures, funded by the gas distribution companies, into the programs. This allows our customers to maximize their savings opportunities through one comprehensive program.

UI and CL&P are planning to implement an HVAC quality installation pilot program during the summer of 2009. The goal of this program is to ensure HVAC systems are properly sized and installed to achieve optimum efficiency.

UI is currently evaluating the feasibility of installing ductless mini-split heat pumps in low income housing units that currently have electric heat. The heat pumps would replace the electric resistance heat as the primary heat source and would consume approximately half the electricity.

The retail lighting program has continued to evolve. UI has expanded the focus of this program to non-standard compact fluorescent lamps (CFLs) such as reflectors and dimmable lamps. UI is exploring developments in LED technology that may make certain LED products a good opportunity for rebates in the near future.

For commercial and industrial customers, advances in fluorescent T-5 lamp technologies have made replacements of metal halide fixtures in manufacturing, retail and recreational facilities cost effective. We are also working on strategies to more fully engage businesses in saving energy and helping the environment.

Interrogatory CSC-5

The United Illuminating Company
Docket No. F2009

Witness: Mike Ghilani

Q-CSC-5: What is the current status of UI's C&LM funding in light of the state budget situation? Comment on how this may affect C&LM projections in the UI Forecast.

A-CSC-5: Currently, UI does not anticipate any reduction in funding due to the state budget situation. Conversely, we expect the 2009 budget to be higher than previously submitted due to stimulus funds and rate reduction bond true-up revenues.

Interrogatory CSC-6

The United Illuminating Company
Docket No. F2009

Witness: Mike Ghilani
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Q-CSC-6: Is UI's load response program separate from ISO-New England's load program? Explain.

A-CSC-6: No. The Load Response Program referenced in the forecast is from the enrollment of customers in the ISO-New England Load Response Program.

Interrogatory CSC-7

The United Illuminating Company
Docket No. F2009

Witness: Robert Manning
Page 1 of 1

Q-CSC-7: Provide any assumptions associated with UI's forecast of distributed generation.

A-CSC-7: Existing distributed generation (DG) units that were on-line are included in the historical data set used to develop the System Peak Load Forecast. This effectively reduces the UI energy and peak demand forecasts. The Company's forecast of DG includes only the new annual incremental increases from DG units in the Company's service territory that have received DPUC approval for grants under Public Act 05-01, June Special Session, *An Act Concerning Energy Independence* ("PA 05-01").

Given the current economic conditions which have resulted in the cancellation of many projects in all industries along with the fact that some of the units will not operate at nameplate ratings, UI has only accounted for half of the planned DG capacity in the forecast for the time period 2009 - 2011. Also, since the Company is unaware of any DG interconnections after 2011, no new incremental increases from DG exists in the forecast beyond 2011.

Interrogatory CSC-8

The United Illuminating Company
Docket No. F2009

Witness: Robert Manning

Q-CSC-8: Provide a break-down of the projected number of megawatts (MW) of load reduction for The United Illuminating Company's (UI) territory due to conservation, load response/load management, and distributed generation for each year from 2009 through 2018.

A-CSC-8: The treatment and assumptions associated with DG is described in the response to CSC-7. Load response programs (LRPs) were excluded as peak load reductions since the future dispatch and use of the LRPs is uncertain. However, the energy efficiency (EE) measures – Conservation – are included as peak load reductions. The table below represents the projected number of megawatts (MW) of load reduction for UI due to conservation, load response/load management and DG for each year from 2009 through 2018.

	Incremental DG (MW)	Cumulative DG (MW)	Incremental Conservation (MW)	Cumulative Conservation (MW)	Incremental Load Response – Load Reduction (MW)	Cumulative Load Response – Load Reduction (MW)
2009	2.5	2.5	5.1	5.1	0	0
2010	10.7	13.2	11.5	16.6	0	0
2011	6.0	19.2	12.4	29.0	0	0
2012	0	19.2	11.1	40.1	0	0
2013	0	19.2	10.4	50.5	0	0
2014	0	19.2	9.6	60.1	0	0
2015	0	19.2	9.3	69.4	0	0
2016	0	19.2	8.2	77.6	0	0
2017	0	19.2	7.1	84.7	0	0
2018	0	19.2	7.4	92.1	0	0

Interrogatory CSC-9

The United Illuminating Company
Docket No. F2009

Witness: Michael A. Coretto
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Q-CSC-9: What is the status of UI's compliance with the Renewable Portfolio Standards as updated in Public Act 07-242?

A-CSC-9: Compliance with the Renewable Portfolio Standards (RPS) is an obligation of UI's Standard Service and Last Resort Service suppliers. The wholesale power supply agreements pass that RPS obligation to the wholesale suppliers.