

### Interrogatory CSC-1

The United Illuminating Company  
Docket No. CSC F2008

Witness: Pat McDonnell  
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Q-CSC-1: Estimate the total number of megawatts (MW) of load reduction for The United Illuminating Company's (UI) territory due to the Conservation and Load Management (C&LM) program for each year from 2008 through 2017. (The number of MW for each year would be the sum of the existing and projected C&LM effects). Break down the total for each year to list the number of MW of conservation and the number of MW of load response.

A-CSC-1: UI used the latest ten-year forecast of Demand-Side Management (DSM) from the data used for the joint UI and Connecticut Light & Power (CL&P) Integrated Resources Plan for Connecticut, dated January 1, 2008 for the Extreme Weather Peak Load Forecast Scenario. The table below provides the UI data for the CL&M and Load Response Programs (LRP) on an annual incremental basis and cumulative basis for the years 2008 to 2017.

#### CL&M, Load Response Programs (LRP)

Annual Amount	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
C&LM - Base DSM	9.7	11.6	12.5	13.1	13.5	11.7	12.0	12.4	12.8	13.1
LRP - Base DSM (excluding OP-4)	0.0	0.0	41.7	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Total DSM- Base Level	9.7	11.6	54.1	13.4	13.9	12.1	12.4	12.8	13.2	13.5
Cumulative Amount Not Including 2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
C&LM	9.7	21.3	33.7	46.8	60.3	72.0	84.1	96.5	109.3	122.4
LRP - Base DSM (excluding OP-4)	0.0	0.0	41.7	42.1	42.5	42.8	43.2	43.6	44.0	44.4
Total - Base DSM	9.7	21.3	75.4	88.9	102.8	114.9	127.3	140.1	153.3	166.8

The following programs were included in the C&LM, LRP and DLC totals:

1. Conservation & Load Management (C&LM) (3 mils) – Refers to the energy efficiency programs. These programs are currently funded under the \$0.003/kWh (3 mils) surcharge on the UI customer bills. Based on the nature of the resources, they will likely be available on peak to reduce the UI System Peak Load.
2. C&LM (FCM) – Refers to the existing energy efficiency programs that will now receive additional, different funding resulting from the ISO-NE Forward Capacity Market (FCM). These programs are currently funded. Based on the nature of the resources, they will likely be available on peak to reduce the UI System Peak Load.
3. C&LM (Class III) - Class III refers to the class of resources under the state of Funded available on peak existing Connecticut Renewable Resource Portfolio Standard. Class III is Energy Efficiency Measures (instituted after January 1,

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2006) and Combined Heat and Power (CHP). These programs are currently funded. Based on the nature of the resources, they will likely be available on peak to reduce the UI System Peak Load.

4. Load Response – These load response programs are designed to reduce the congestion associated with the Federally Mandated Congestion Charges (FMCC). These programs are currently funded from ISO-NE capacity payments as well as through the FMCC charges on customer bills. Based on the nature of the resources, some of the resources will likely be available on peak to reduce the UI System Peak Load with the start of the ISO-NE Forward Capacity Market (FCM). The Load Response (FMCCs) values have been reduced to exclude emergency generators which only reduce the load during ISO-NE Operating Procedure 4 (OP-4) event - Action During a Capacity Deficiency.

For the Normal Weather Peak Load Forecast Scenario, UI used the latest ten-year forecast of Demand-Side Management (DSM) from the data used for the joint UI and Connecticut Light & Power (CL&P) Integrated Resources Plan for Connecticut, dated January 1, 2008 as described above along with the heavy DSM increment shown in the tables below.

**CL&M, Load Response Programs (LRP)**

Annual Amount	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
C&LM - Heavy DSM Increment	0.0	1.3	5.0	9.3	13.0	13.0	13.0	13.0	13.0	13.0
LRP - Heavy DSM Increment	3.5	14.0	4.0	4.0	5.5	0.0	0.0	0.0	0.0	0.0
Total DSM - Heavy Level	3.5	15.3	9.0	13.3	18.5	13.0	13.0	13.0	13.0	13.0

Cumulative Amount Not Including 2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
C&LM - Heavy DSM Increment	0.0	1.3	6.3	15.5	28.5	41.5	54.5	67.5	80.5	93.5
LRP - Heavy DSM Increment	3.5	17.5	21.5	25.5	31.0	31.0	31.0	31.0	31.0	31.0
Total - Heavy DSM Increment	3.5	18.8	27.8	41.0	59.5	72.5	85.5	98.5	111.5	124.5

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Q-CSC-2: Is UI's load response program separate from ISO-New England's load program?  
Explain

A-CSC-2: No. The Load Response Program referenced in the forecast is through enrollment of customers in the ISO-New England Load Response Program.

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Q-CSC-3: Describe any new and/or innovative C&LM energy savings measures that UI has recently put into use or is considering.

A-CSC-3: 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.

For residential customers, the Home Energy Solutions program offers a comprehensive turnkey installation of energy saving measures. This year, the electric companies have worked to fully integrate this program with the gas distribution company programs for the overall benefit of customers.

The retail lighting program has continued to evolve as well. 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, UI is also integrating gas savings measures as well. This will allow us to maximize the savings benefits to customers. We are also working on strategies to more fully engage businesses in saving energy and helping the environment.

Interrogatory CSC-4

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Q-CSC-4: Does UI's forecast include any projections for distributed generation pursuant to Public Act 05-01? Explain.

A-CSC-4: Yes, UI's normal weather peak load scenario forecast and the system requirements include projections for distributed generation pursuant to Public Act 05-01. The annual and cumulative summer peak amounts are included in the table below:

<b>Year</b>	<b>Annual Amount (MW)</b>	<b>Cumulative (MW)</b>
2008	8	8
2009	32	40
2010	2	42
2011	0	42
2012	0	42
2013	0	42
2014	0	42
2015	0	42
2016	0	42
2017	0	42

UI's extreme weather peak load forecast scenario does not include projections for distributed generation.

Interrogatory CSC-5

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Q-CSC-5: The Connecticut Light and Power Company's 2008 forecast indicates that electric energy consumption has declined approximately 0.1 percent per year for the last five years and is expected to only climb approximately 0.4 percent per year during the ten year forecast period. Is UI experiencing a similar phenomenon (i.e. essentially flat electric energy consumption) in its service area?

A-CSC-5: UI experienced flat sales of -0.03% on an actual, non weather corrected basis, for the calendar year 2007. On a weather-corrected basis, the sales decline for 2007 was -0.84%. UI has experienced consistent negative sales for the first three months of 2008 of -3.21% on an actual basis, or -2.04% on a weather-corrected basis.

Interrogatory CSC-6

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Q-CSC-6: What is the status of UI's compliance with the Renewable Portfolio Standards as updated in Public Act 07-242?

A-CSC-6: Currently, UI's compliance with the Renewable Portfolio Standards is achieved by assigning responsibility to meet the standards to UI's wholesale suppliers through its wholesale power supply agreements.

Interrogatory CSC-7

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Q-CSC-7: Did UI experience any record peak loads during the recent heat wave on June 9 and June 10th? Provide the daily peak loads in megawatts.

A-CSC-7: UI did not experience an all time record peak during the recent heat wave on June 9 and 10. UI's current record system peak load is 1456 MW and occurred on August 3<sup>rd</sup> 2006. However, as of June 16<sup>th</sup>, UI did experience a 2008 record peak load which occurred on June 10<sup>th</sup>. The daily peak loads for June 9 – 10 were:

<b>Date</b>	<b>Peak Load (MW)</b>
June 9	1264
June 10	1296



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Q-CSC-8: Regarding the installation of wireless (i.e. cellular and PCS) antennas on electric transmission structures (often referred to as "power mount facilities"), does UI have any concerns regarding this process? For example, in UI's experience, does the wireless carriers' need to access the facilities for maintenance and upgrades sometimes conflict with UI's ability to schedule transmission outages with ISO-New England? Explain.

A-CSC-8: There are no wireless antennas on UI owned transmission towers. There are wireless antennas on NU owned transmission towers which have transmission lines supplying UI Substations. There have been no conflicts to date arising from the needs of the wireless companies to access their equipment. UI has and will continue to allow these lines to be removed from service for cellular equipment work only if it does not impact the reliability of our substations.