Northeast
Utilities System

107 Selden Street, Berlin, CT 06037

Northeast Utilities Service Company
P.O. Box 270
Hartford, CT 06141-0270
(860) 665-5000
www.nu.com

July 22, 2009

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

Re: Docket No. 346 - Implementation of Section 8 of Public Act 07-242, An Act Concerning Electricity and Energy Efficiency

Dear Mr. Phelps:

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

Response to HD-01 Late Filed Exhibits dated 06/29/2009
LF-001, 002, 003*

Very truly yours,

John Morissette

John Morissette
Manager
Transmission Siting and Permitting
NUSCO
As Agent for CL&P

cc: Service List

* Bulk material provided.

The Connecticut Light and Power Company
Docket No. 346

Late Filed Exhibit HD-01
Dated: 06/29/2009
Q-LF-001

Witness: Douglas S. McCracken
Request from: Connecticut Siting Council

Question:
How many mobile transformers do we have and what are their ratings?

Response:
For distribution mobile transformers a list is attached.

istribution Mobile Transformers

bile	SIZE	VEHICLE	Middle Voltage (KV)	HIGH SIDE VOLTS (kV)	LOW SIDE (kV)	Tap Changer	Low Side Breaker
JM	MVA	NUMBER	Delta is bold and underlined				
MX	3	96323		27,6,23.0,13.8,13.2	8.3,4.8,4.16,2.4		Yes
MX	3	86875		27,6,23.0,13.8,13.2	8.3,4.8,600V,480V		No
MX	3	16843		23	4.8		Yes
MX	3	46961		27,6,23.0,13.8,13.2	8.3,4.8,4.16,2.4		Yes
MX	5	36873		27,6,23.0,13.8,13.2	8.3,4.8		Yes
MX	6	96812		34.5,27,6,23.0,13.8,13.2	8.3,4.8,4.16,2.4	Yes	Yes
MX	10	36787	34.5,27,6,23.0,13.8,13.6	69	8.3,4.8,4.16,2.4		No
MX	12.5	96568		28,8,23.0,14,4,13.68	23.0,14.4,8.3,4.8	Yes	Yes(High and Low)
MX	15	56902		28,8,23.0	23.0,14.4	Yes	Yes
MX	15	86856		34.5,27,6,23.0	14.4,8.3,4.8	Yes	Yes
MX	25	46855		115, 69,69	23.0,14.4,13.8	Yes	No
MX	25	56904		115	28.8,23.0,14.4,13.8	Yes	No
MX	30	96569		115	28.8,23.0,14.4,13.8	Yes	No
MX	30	56874		115	28.8,23.0,14.4	Yes	No
*	0.5	56871		5.04			

* Voltage Regulator Only

ote: 67MX cannot be moved with oil in it in Massachusetts.

CL&P Docket No. 346
Late Filed Exhibit HD-01
Dated 06/29/2009
Q-LF-001-Page 2 of 2

Witness: Douglas S. McCracken
Request from: Connecticut Siting Council

Question:
Provide directions for accessing ISO New England rules and procedures.

Response:
The ISO New England (ISO-NE) website link that provides publicly available procedures is included below. This one link leads to several others and the various categories of ISO New England procedures.

http://www.iso-ne.com/rules_proceds/index.html

A listing of confidential ISO-NE procedures, those not accessible on the public website, is provided below.

Confidential ISO-NE Operating Procedures (OPs)

OP2, Appendix B	ISO/Local Control Center/SCADA Center OP #2 Staff
OP2, Appendix D	Approved Scheduled Maintenance Report
OP3, Appendix A	Transmission Facility Category Listings Including Category B Transmission Circuits That Do Not Affect Generation or Dispatchable Asset Related Demands
OP3, Appendix D	Category B Transmission Circuits That Affect Generation or Dispatchable Asset Related Demands and Must Be Treated As Category A
OP3, Appendix E	Minimum Advanced Notice Times - Outage Requests For Specific Equipment
OP3, Appendix F	Major Transmission Element Listing
OP6, Appendix G	345 kV Restoration Event Log
OP6, Appendix B	Restoration Sequence for Establishing a 345kV Backbone After a Total System Blackout within New England
OP11, Appendix A	Black Start Units In the New England Control Area / Balancing Authority
OP11, Appendix B	Black Start Groups of Stations That Must Meet Certain Pass Requirements
OP14, Appendix D	Resources Requiring Communications Independent of the Public Switched Network
OP16, Appendix F	Market Participant OP 16 Contact(s)
OP19, Appendix D	New England Transmission System 345 kV Double Circuit Tower Lines

Confidential ISO-NE Master Local Control Center (MLCC) Procedures

MLCC 1	Nuclear Plant Transmission Operations
MLCC 3	Test Procedure for Local Control Center Satellite Phone Communications
MLCC 4	Emergency Load Reduction Plans for Mitigating IROL Violations
MLCC 5	Procedure for Millstone Point Station Generation Reduction
MLCC 6	Procedure for Evacuation of ISO New England Control Room
MLCC 9	Operation of the Chester Static VAR Compensator (SVC)
MLCC_11	Verification of New England System Restoration Plan
MLCC_12	Coordination of Responsibilities to Comply With NERC Standards for Transmission Operations
MLCC_14	Strategy for Preparedness and Response to a Pandemic

The Connecticut Light and Power Company
Docket No. 346

Late Filed Exhibit HD-01
Dated: 06/29/2009
Q-LF-003
Page 1 of 1

Witness: Douglas S. McCracken
Request from: Connecticut Siting Council

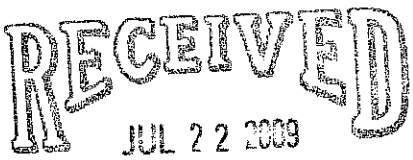
Question:
Provide an outage analysis comparing distribution versus transmission outages over the past three years.

Response:
Attached is The Connecticut Light and Power Company's 2009 Transmission and Distribution Reliability Performance Report filed with the Department of Public Utility Control on March 31, 2009 for both customer interruptions and customer minutes interrupted from 2004 through 2008. The statistics on Charts 2 & 3 and Appendix 1 demonstrate that there were minimal transmission related events on the CL&P system that resulted in customer interruption.

* Bulk material provided.

CL&P Docket No. 346
Late Filed Exhibit HD-01
Dated 06/29/2009
Q-LF-003-BULK

March 31, 2009



Ms. Kimberley J. Santopietro
Executive Secretary
Department of Public Utility Control
10 Franklin Square
New Britain, CT 06051

Re: Docket No. 86-12-03 - Transmission and Distribution Reliability Performance Report - Order No. 12 Compliance

Docket No. 97-11-10 - DPUC Review of Electric Utility Line Maintenance Plans - Order No. 3 Compliance

Dear Ms. Santopietro:

Enclosed for filing is The Connecticut Light and Power Company's 2009 Transmission and Distribution Reliability Performance Report ("TDRP"). The report is being filed as bulk material with copies to the Department and the Office of Consumer Counsel.

Please contact me at 665-3566 if there are any questions regarding this filing.

Very truly yours,

Janet R. Palmer
Manager - Regulatory Policy, CT
NUSCO
As Agent for CL&P

Enclosure

cc: Service Lists

DOCKET No. 86-12-03

THE CONNECTICUT LIGHT AND POWER COMPANY

2009

TRANSMISSION AND DISTRIBUTION

RELIABILITY PERFORMANCE REPORT

March 31, 2009

Table of Contents

A. INTRODUCTION

This is the twenty-second annual submission of the Transmission and Distribution Reliability Performance ("TDRP") report by The Connecticut Light and Power Company ("CL&P" or the "Company") to the Connecticut Department of Public Utility Control ("Department"), as required by Order No. 12 of Docket No. 86-12-03. This report provides an assessment of the reliability of service provided to CL&P customers during the period January 1, 2008 through December 31, 2008, as measured by the frequency and duration of interruptions to service.

This assessment of electric system reliability is based on historical data compiled by CL&P, and analyzed using reliability indices and measures prescribed by the Department. The indices used in this analysis are the System Average Interruption Duration Index ("SAIDI"), the System Average Interruption Frequency Index ("SAIFI"), and the Customer Average Interruption Duration Index ("CAIDI"). Definitions of these indices are provided in Appendix 22. In order to calculate these indices, CL&P maintains records on all service outages which occur within its service territory. These records include such statistics as the location of the outage, the duration, the cause, and the number of customers interrupted. An outage (or interruption), as defined in Appendix 22, is any service interruption greater than five minutes in duration.

In 2008, excluding major storms, CL&P experienced a SAIDI of 117 minutes, which represents an improvement of more than 10 minutes from the Company's 2008 SAIDI goal of 127.7 minutes, as well as an improvement of 3 minutes from the Company's actual 2007 SAIDI of 120 minutes. As detailed later within this report, the Company notes that both its SAIDI and SAIFI in 2008 have improved for the last three years – 2006, 2007, 2008. Although CL&P's actual 2008 CAIDI of 127 minutes demonstrated an increase from 2007, performance exhibits an improvement when compared to the Company's four-year average of 129. The Company attributes this improved reliability performance to completion of planned capital reliability improvement projects, completion of planned maintenance and additional tree trimming. The Company is pleased to report that its diligent efforts to improve system reliability helped result in this positive achievement.

This report outlines the details of CL&P's overall distribution reliability programs and the actions to be taken by CL&P to improve individual distribution circuits with a high frequency or duration of service outages.

B. SYSTEM DESCRIPTION

CL&P's service territory is shown on the map in Appendix 23. The total service area covers 4,400 square miles, or 87 percent of the total area in Connecticut. Situated within this service territory are 149 communities including large urban centers such as Hartford, Stamford, and Waterbury, suburban settings surrounding these cities, and rural settings found throughout the state. The service territory includes heavily-treed areas, shoreline areas, and hilly terrain. Weather conditions can be severe and from time to time include ice and snow storms, heavy winds, hurricanes, thunderstorms, and occasional tornadoes.

CL&P is presently organized in four Divisions, as shown below:

CL&P DIVISIONS
Central
Eastern
Southern
Western

A Director who reports directly to the CL&P Vice President - Customer Operations, heads each of these Divisions.

Reliability goals and subsequent achievements are reported in a format representative of this organizational structure as shown in Table 1 on Page 8.

The CL&P electric system serves approximately 1.2 million customers and had a 2008 peak load of 5,510 MW. While it is possible that abnormal population or customer class growth in specific areas could challenge the capacity of the distribution system and negatively affect reliability, the Company does not anticipate such conditions to develop in 2009. The Company has developed a substantial number of distribution system load-relief projects planned for completion prior to the 2009 summer load peak.

The CL&P electric transmission system consists of approximately 1,636 circuit miles of overhead transmission and 135 miles of underground transmission. CL&P has 103 substations supplied from its transmission system and another 128 substations supplied from its distribution system. CL&P's distribution system consists of approximately 16,945 circuit miles of overhead primary construction, and over 6,162 circuit miles of underground primary construction, including both direct-buried and underground duct and manhole primary construction. Primary distribution voltages range from 4.8kV to 34.5kV with the majority of circuits operated at 4.8kV, 13.2kV, 13.8kV and 23kV. CL&P uses over 260,000 distribution transformers to supply its customers. A further breakdown of the CL&P transmission and distribution system is given in Appendix 9. The Appendix lists the miles of construction on the CL&P system categorized by voltage class and construction type.

C. *HISTORICAL PERFORMANCE*

During the period from January 1, 2008 through December 31, 2008, customers were interrupted an average of 0.91 times (SAIFI) for an average total duration of 117 minutes (SAIDI). In actuality, not every customer is interrupted during a year. For those customers who did experience an outage during the period, the average length of time to restore service after an outage was 127 minutes (CAIDI).

Weather has a large impact on reliability performance. In an effort to make year-to-year comparisons more meaningful, the reliability statistics exclude the effects of major storms, except where noted. The definition of a major storm is included in Appendix 22 and the Company's major storm experience in 2008 is described in Appendix 7.

In 2008, excluding major storms, CL&P experienced a SAIDI of 117 minutes, which represents an improvement of more than 10 minutes from the Company's 2008 SAIDI goal of 127.7 minutes, as well as an improvement of 3 minutes from the Company's actual 2007 SAIDI of 120 minutes. As detailed later within this report, the Company notes that both its SAIDI and SAIFI in 2008 have improved for the last three years – 2006, 2007, 2008. Although CL&P's actual 2008 CAIDI of 127 minutes demonstrated an increase from 2007, performance exhibits an improvement when compared to the Company's four-year average of 129. The Company attributes this improved reliability performance to completion of planned capital reliability improvement projects, completion of planned maintenance and additional tree trimming. The Company is pleased to report that its diligent efforts to improve system reliability helped result in this positive achievement.

In order to maintain and improve reliability performance, CL&P has developed a plan that includes numerous reliability programs for 2009 as described in Section F.

Reliability performance comparisons are shown in Table 1. Table 1 includes the years 2004 through 2008 based on CL&P's current four Division organization. Similar data is shown in Appendix 26.

Charts 1, 2, and 3 plot CL&P system reliability data for 2004-2008.

CHART 1

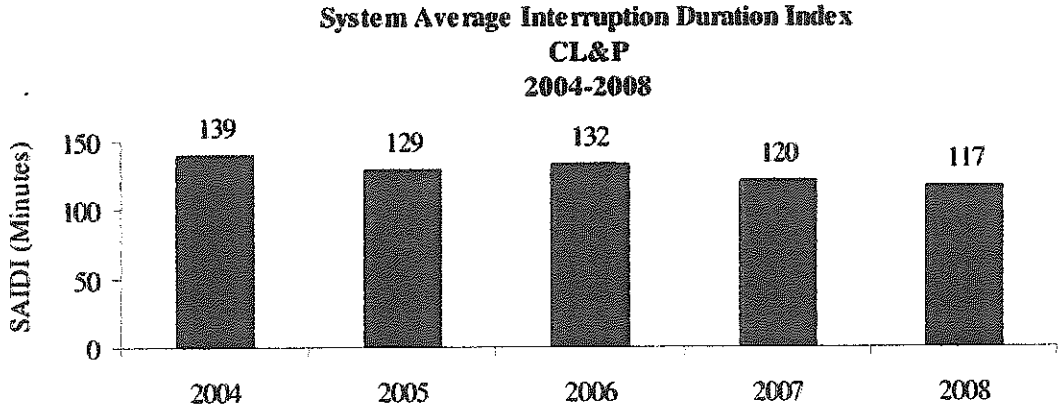
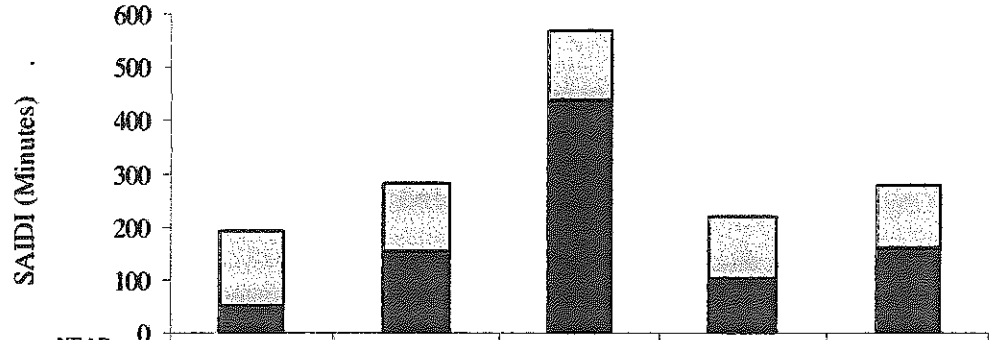


CHART 2

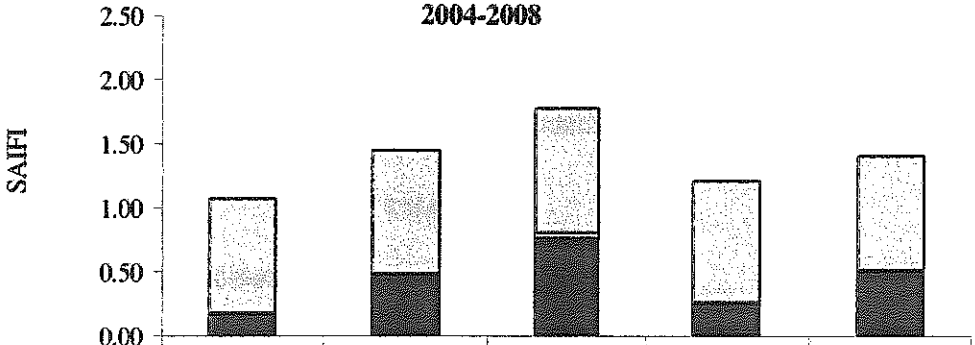
System Average Interruption Duration Index
(Including Major Storms)
2004-2008



YEAR	2004	2005	2006	2007	2008
TOTAL SAIDI	191	281	568	221	276
Customer Caused	0.03	0.03	0.01	0	0.12
Distribution System	137.7	128.16	129.81	118.32	116.09
Scheduled	1.17	1.37	1.97	1.35	0.96
Major Storms	51.16	151.48	435.05	100.87	158.83
Trans/Power Supply	0.66	0.01	0.85	0.53	0.22

CHART 3

System Average Interruption Frequency Index
(Including Major Storms)
2004-2008



YEAR	2004	2005	2006	2007	2008
TOTAL SAIFI	1.07	1.45	1.78	1.21	1.4
Customer Caused	0	0	0	0.00	0.00
Distribution System	0.89	0.97	0.98	0.94	0.89
Scheduled	0.01	0.01	0.03	0.02	0.01
Major Storms	0.17	0.47	0.76	0.24	0.49
Trans/Power Supply	0	0	0	0.01	0.01

D. CAUSES OF OUTAGES

In accordance with Order 1(b) of Docket 86-12-03, the causes of service interruptions which affect reliability performance are classified into five major categories, as follows:

- Forced transmission and power supply related outages
- Scheduled or planned outages for maintenance and construction
- Customer caused outages
- Major storm related outages
- Distribution system

The "Distribution System" outage category includes service interruptions that result from the following causes:

- Animal/Bird Contacts
- Lightning
- Tree Contacts
- Accidents
    a. Vehicle
    b. Foreign objects
    c. Employee Error

- Equipment Failure
    d. Overhead system
    e. Underground cable
    f. Direct-buried cable
    g. Transmission
    h. Substation
    i. Transformer
    j. Other equipment

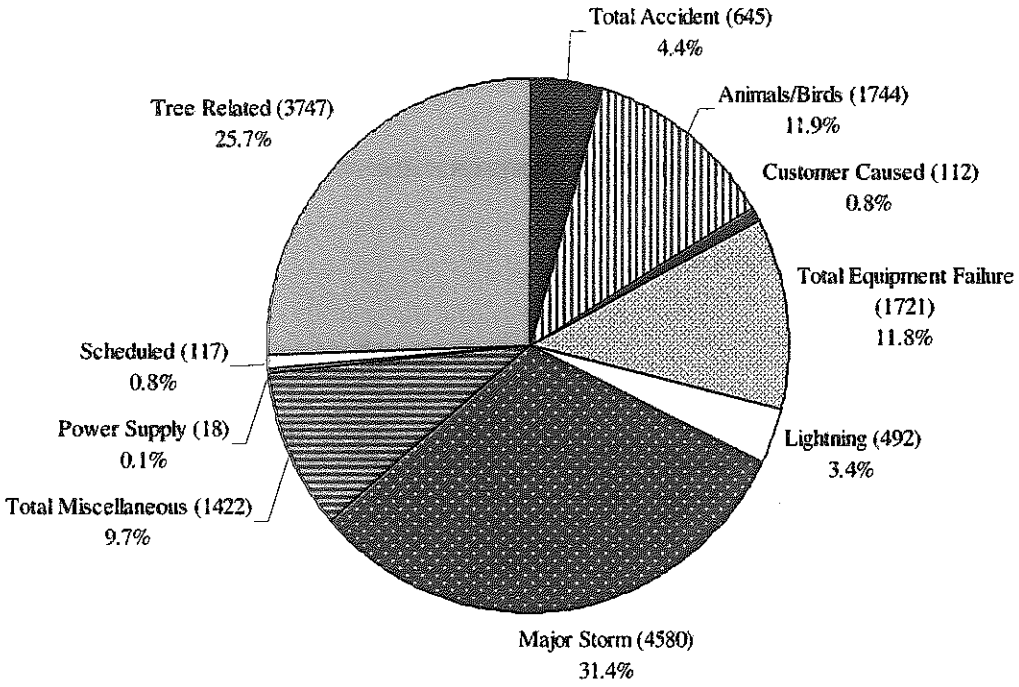
- Miscellaneous
    k. Overload
    l. Other
    m. Unknown

Scheduled outages for maintenance and construction are often arranged in conjunction with the affected customer(s) in order to provide them with advanced notice and lessen their inconvenience.

The number of outages by cause during 2008 and the four-year average during 2004-2008 are shown in Charts 4 and 5 respectively. The total number of interruptions including major storms in 2008 was 14,598.

CHART 4

Causes of Outages - CL&P System
(Including Major Storms)
2008



Note: The number of interruptions is included in the parentheses next to each cause.

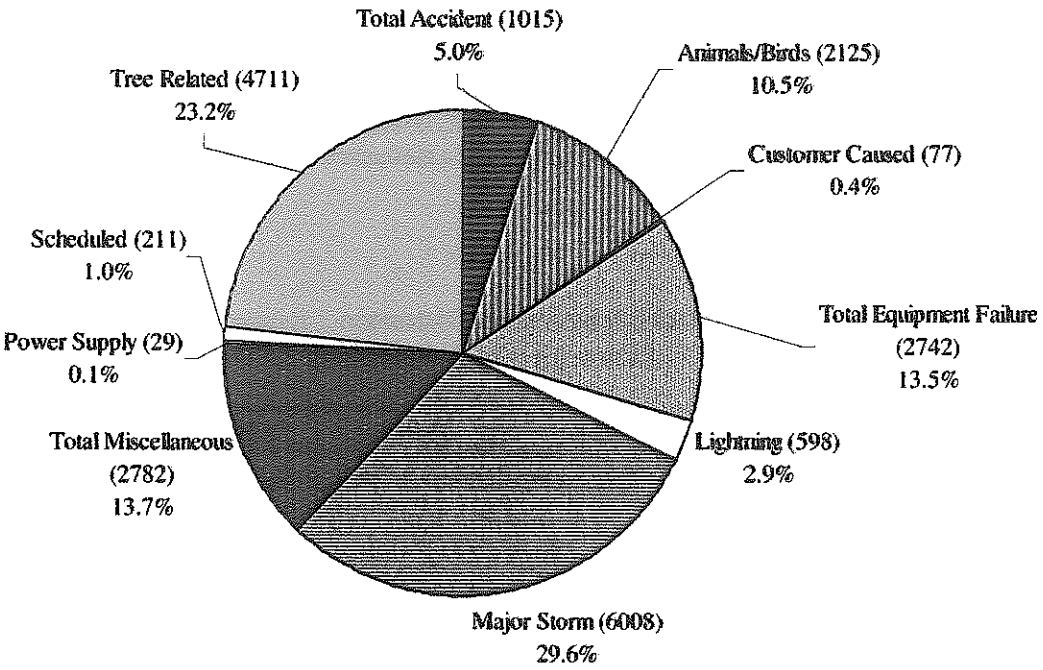
Accident	**4.4%**
Vehicle	3.0%
Foreign Objects	0.8%
Employee Error	0.6%

Equipment Failure	**11.8%**
Overhead System	5.2%
Underground Cable	0.5%
DB Cable	3.2%
Transmission	0.0%
Substation	0.0%
Transformer	2.9%

Miscellaneous	**9.7%**
Overload	2.4%
Other	2.4%
Unknown	5.0%

CHART 5

Causes of Outages - CL&P System
Four-Year Average
(Including Major Storms)
2004-2007



Note: The average annual number of interruptions is included in parentheses next to each cause. The average annual number of interruptions for 2004-2007 was 20,298.

Accident	5.0%
Vehicle	3.4%
Foreign Objects	1.0%
Employee Error	0.6%

Equipment Failure	13.5%
Overhead System	6.3%
Underground Cable	0.5%
DB Cable	3.3%
Transmission	0.0%
Substation	0.2%
Transformer	3.2%

Miscellaneous	13.7%
Overload	3.0%
Other	3.3%
Unknown	7.5%

Excluding major storms, the data presented in this report for 2008 reveals that outages in the "Distribution System" outage category accounted for the vast majority of customer interruptions and customer minutes of interruption, and the major causes of interruptions on the distribution system were trees, equipment failures, animals/birds and vehicles/accidents.

CL&P focuses its attention and resources on the major causes of interruptions in developing its reliability improvement programs.

RELIABILITY GOALS AND PERFORMANCE

An ideal electric system would operate with 100 percent reliability, which would result in SAIDI and SAIFI values of zero. However, this level of reliability is unattainable due to circumstances such as storms, tree conditions, vehicle accidents, cost and ongoing construction and maintenance activities. CL&P is committed to improving its overall reliability performance by reducing the number of controllable outages. This commitment is executed through the reliability improvement programs discussed in Section F.

To focus employee attention on reliability, CL&P has established an annual series of reliability goals. The goals and performance for 2004 - 2008 and the goals for 2009, are shown in Table 1. These goals were determined by considering past reliability levels, as well as current performance improvement programs. Each year the reliability goals are evaluated and appropriate adjustments are made for the following year.

TABLE 1

Reliability Goals and Actual Historical Performance
(Excluding Major Storms)

	2004		2005		2006		2007		2008		2009
	Goal	Actual	Goal	Actual	Goal	Actual	Goal	Actual	Goal	Actual	Goal
CL&P System											
SAIDI (Minutes)	111	139	111	129	119.7	132	132	120	127.7	117	117.6
SAIFI	0.88	0.91	0.871	0.98	0.938	1.02	1.057	0.98	1.04	0.91	0.919
CAIDI (Minutes)	127.5	152	127.5	131	127.6	129	124.9	122	122.9	127	128
Central Division											
SAIDI (Minutes)	97.96	103	98	129	101.9	135	125.4	98	121.4	111	107.1
SAIFI	0.72	0.66	0.713	0.95	0.801	0.97	0.97	0.81	0.955	0.75	0.77
CAIDI (Minutes)	139.3	154	137.4	136	127.2	139	129.3	120	127.1	148	139
Eastern Division											
SAIDI (Minutes)	112.9	139	112.9	141	132.8	144	142.4	135	137.8	124	129.7
SAIFI	1.01	1.06	1.002	1.17	1.124	1.16	1.258	1.1	1.238	0.98	1.03
CAIDI (Minutes)	110.6	131	112.7	120	118.2	124	113.1	122	111.3	127	125.9
Southern Division											
SAIDI (Minutes)	135.5	176	135.4	137	144.7	156	140.4	130	135.8	148	132.6
SAIFI	1.03	1.13	1.023	0.97	1.023	1.26	1.061	1.05	1.044	1.19	1.048
CAIDI (Minutes)	129	156	132.4	141	141.5	123	132.3	124	130.1	124	126.6
Western Division											
SAIDI (Minutes)	103.09	146	103.1	112	105.9	100	122.8	119	118.8	92	105.4
SAIFI	0.8	0.84	0.791	0.85	0.84	0.75	0.959	0.97	0.943	0.8	0.866
CAIDI (Minutes)	129.7	172	130.3	132	126.1	133	128	121	125.9	114	121.8

F. *RELIABILITY IMPROVEMENT PROGRAMS*

Over the past several years, CL&P developed targeted projects to mitigate and reduce the duration and frequency of outages that customers experience. The Company will continue to develop and implement projects to improve reliability through the installation of new equipment and will step up its emphasis on replacing old, outdated and obsolete equipment, the failure of which will have a negative impact on customers.

As the Company reported in the 2006 TDRP report, CL&P developed a series of Pro-Active Reliability ("PAR") initiatives. Some of these initiatives were one-time efforts. Several, however, will continue in 2009. A summary of the continuing PAR initiatives follow:

Targeted Tree Trimming - CL&P spent $8.374 million in capital funds in 2008 to target areas with increased tree trimming in specific communities. The PAR-targeted tree trimming program will continue in 2009.

Prioritize Distribution Reliability ("DR") Work – In 2008, CL&P spent $4.2 million on prioritized reliability work written against the DR annual budget. CL&P will continue this program in 2009 and plans to spend up to $5.9 million of capital for this reliability improvement work.

Minimize Construction Exposure – Existing procedures and work practices were enhanced to reduce customer exposure to inadvertent interruptions caused by field construction. The Company intends to continue utilizing these work practices and procedures in 2009.

Out-Of-Service Equipment – In 2006, CL&P implemented a computerized tracking data base system and associated performance metrics aimed at reducing the time it takes to return critical equipment back to service. The Company intends to continue utilizing this tracking system in 2009.

Accelerate Substation Animal-Proofing – CL&P completed animal-proofing projects on 16 substations in 2008. In 2009, CL&P plans to perform animal-proofing on a minimum of 10 substations. Additional animal-proofing will be completed, as needed, during bus rehabilitation work.

Substation Bus Rehabilitation – CL&P plans to spend an estimated $5.6 million to rehabilitate the aging bus infrastructure in 21 substations in 2009. This work may include replacement of inoperable switches, replacement of obsolete lightning arresters, and enhanced animal protection.

Improve Substation SAIDI – CL&P addressed four stranded substations in 2008 by eliminating the substation or providing a back-up supply and plans to address this same issue at a minimum of three or more stranded substations in 2009.

CL&P's Circuit Owners continue to actively manage the distribution system. They monitor the status of their assigned circuits with a goal of improving operational performance. Toward the end of 2007, the Circuit Owners were given a new tool that automatically notifies them if any system protective device, such as a fuse or circuit breaker, operates three or more times within a 90-day period on one of their assigned circuits. When the information is received, Circuit Owners investigate the reasons or causes and, if required, ensure that the appropriate steps are taken to address the situation. However, if a significant outage were to occur, it is investigated as well to ascertain if similar failures can be prevented from re-occurring in the future. In addition, as part of their responsibilities, Circuit Owners monitor load growth on their circuits to ensure adequate capacity to meet future needs. The Company notes that each CL&P employee continues to have a percentage of their compensation linked to CL&P's reliability performance.

CL&P continues to have daily operational conference calls where significant outages are reviewed and discussed to achieve "Lessons Learned" throughout the CL&P system. Follow-up assignments are often issued and assigned to appropriate personnel for follow-up corrective actions when required.

CL&P intends to continue utilizing numerous programs and initiatives to further improve reliability. Some of these initiatives are described as follows:

1. **Construction Initiatives**

Replacement of A. B. Chance Cutouts – Cutouts manufactured by the A.B. Chance Company have begun failing and causing service interruptions. The Company developed a plan to pro-actively identify and replace all A.B. Chance cutouts on its system. As of January 31, 2009, CL&P completed this program and has replaced all known A.B. Chance cutouts on its overhead distribution system.

Remediation of Islanded Substations – The Company has a number of substations that may experience lengthy outages in the load they supply in the event of the loss of a power transformer or other major component. These substations have been identified by location and prioritized by total customers potentially affected. Projects were completed to address four of these locations in 2008. The Company plans to address a minimum of three stranded substations in 2009. Remediation projects include installing a second power transformer in the substation, establishing alternate supplies with better ties to other substations, and converting the islanded circuits to a higher voltage and connecting them directly to a system that is backed up. The majority of these islanded substations feed circuits that operate at 4.8kV.

Transmission/Distribution Reliability Program - Through this program, CL&P annually reviews and develops corrective action plans for its worst-performing circuits. This program allows for improvements in three main areas: rebuilding of backbones to more reliable construction, establishment of backup sources, and improving reliability on sidetaps to pockets of customers experiencing very high frequency of interruptions. Backbone rebuilds include replacing bare wire in treed areas with covered wire; replacing poles, crossarms, and armless construction (as appropriate) with new equipment; installing lightning arrestors, animal guards, and transformer fuses; and eliminating problematic equipment such as rubber ties and heavy-duty hot-line clamps.

Backbone Rehabilitation - The backbone rehabilitation program is targeted to eliminate exposure of the circuit backbone to outages caused by construction and equipment that has a history of poor performance. The circuit backbone is defined as the three-phase portion of the circuit which originates from the source substation and includes manual and automatic isolating devices, and ends at fused laterals. The benefits of backbone rehabilitation to the circuit are as follows:

- Installation of animal guards and installation of cutouts to fuse the transformers lowers the likelihood of outages on the backbone caused by animals. The fusing of the cutouts also has the added benefit of preventing a backbone outage for the failure of the transformer itself.
- The installation of surge arresters serves to help prevent outages and equipment failures which may be caused by lightning surges. The spreading of armless to crossarm construction also serves to help prevent lightning-caused outages, as well as helping to reduce outages caused by tree limbs getting across two or more phase conductors. The possibility of lightning-caused outages is also reduced with the installation of insulated guy rods, which increases the basic insulation level ("BIL") of the pole top.
- The replacement of rubber tie insulators, silicon-carbide arresters, GE Dura-bute and arc-chute cutouts, aluminum cap dead-ends and hot-line clamps also helps to reduce the exposure to outages on the backbone since this equipment has shown to have a high rate of failure.

High Voltage Over Low Voltage Bare Wire Circuit Elimination - CL&P has identified certain types of over-build construction involving bare over bare wire where the circuits are of different voltages that, on a relative basis, are less reliable than others. As a result a program has been developed to eventually eliminate this less reliable over-build construction in the CL&P distribution system.

There were approximately 606,000 feet of this type of construction in the CL&P system as of 2002. Through the end of 2008, CL&P has removed or rebuilt 250,984 feet or 41% of this higher-risk construction. In 2008, 40,179 feet were removed or rebuilt. Another 210,805 feet were removed or rebuilt prior to 2008. In 2009, CL&P plans to remove or rebuild an additional 58,271 feet of such construction, leaving approximately 296,885 feet to be remediated in the years following 2009.

Overloads - The capacity additions program addresses the issue of overloads to ensure lines and substations can carry the required normal and contingency loads without undue degradation of their physical characteristics. If not corrected, overloads can result in such undesirable events as broken and falling lines, as well as insulation failures of cable, transformers, and switches.

By using existing substation and feeder load data, along with estimates of load growth, potential overload conditions are determined and prioritized on an ongoing basis. Solutions are then developed and scheduled in a timeframe to avoid potential overload conditions from developing.

When overload conditions are found or anticipated, various solutions can be employed to remediate the problem. Remediations can include the addition or upgrading of line equipment, the shift of load to less loaded components, or the installation of automatic switching devices to shift loads between substations in the event of a major supply transformer failure.

Sectionalizing - Additional sectionalizing locations on either overhead or underground distribution circuits improves reliability. This improved reliability is achieved by increasing the number of locations on a circuit where damaged conductors or other equipment can be isolated, allowing the restoration of the undamaged portion.

Sectionalizing can be manual, as with switches, or can be automated with reclosers and auto-transfer switchgear. The underground auto-transfer switchgear being installed serves four loop circuits and replaces switchgear or interrupters that served only single loop circuits.

Additional sectionalizing is also planned for some of the underground network circuits. Manual switches will be installed on some of the network circuits to reduce the number of locations where switching must be performed to de-energize or repair the circuit and to help restore unfaulted sections more quickly.

Direct Buried Cable Replacement and Rejuvenation - In 2008, CL&P replaced or rejuvenated direct buried cable in developments on an emergent basis to address older direct-buried developments that exhibit poor reliability performance. CL&P will continue to replace or rejuvenate direct buried cable in 2009 on an emergent basis as required.

Conventional UG Plant Replacement – The conventional underground plant replacement initiative is a program that targets obsolete underground network equipment. The replacement of this equipment is aimed at improving reliability to customers served by these systems. Initiatives include the replacement of damaged or defective network transformers, and protectors, replacing damaged splices and primary cables. There is a focus in 2009 to convert the secondary network conductors from Type B to Type A as detailed in Docket No. 06-08-20, Order No.1.

Substation Plant Replacement – This program addresses replacement of obsolete major transmission and distribution substation equipment (e.g. switchgear, insulators, breakers, arrestors, disconnect switches and capacity metering).

Tree Trimming

Trees continue to be a major cause of interruptions on the CL&P distribution system. In 2008, trees accounted for approximately 37 percent of all interruptions and 38 percent of the customer minutes interrupted, excluding major storms. During storms, trees accounted for the vast majority of interruptions and customer minutes interrupted. The number of tree-caused interruptions has trended up over the last five years (2004-2008). As part of CL&P's 2008 SAIDI achievement, without storms, the number of customer minutes attributed to tree-caused outages, which peaked in 2006 (43.4 minutes), was down slightly in 2008 (42.5 minutes).

In 2008, CL&P continued alliances with ABC Professional Tree ("ABC") in Eastern Division, Davey Tree Experts in Central Division ("Davey") and Lewis Tree Experts ("Lewis") in the Southern and Western Divisions. In addition to the alliances, the Company developed a Lump Sum contract in the Central, Eastern and Western divisions that was awarded to Lewis Tree.

CL&P's tree contractors completed scheduled maintenance trimming on 2,692 miles of roadside distribution lines in 2008.

The Company also continued its proactive reliability, enhanced tree trimming ("PAR-ETT") program completing 517 miles of work on lateral circuit segments that were identified as having a high number of tree-caused interruptions. The ETT specification provides for greater clearances and removes hazard limbs and trees that are outside the normal maintenance trim zone. The hazards must be removed to achieve a significant improvement in reliability.

Right-of-way brush control was performed on 107 miles of off-road distribution supply lines.

Also in 2008, CL&P inspected and hot-spot trimmed 161 miles of circuit backbones as part of the backbone mid-cycle program. Circuit backbones that were trimmed approximately 2 years previously are selected for the mid-cycle program.

There were 388 instances where CL&P was denied permission to trim in 2008. A divisional listing of these denials is provided in Appendix 21.

3. Distribution Supervisory Control and Data Acquisition (DSCADA)

The application of Distribution Supervisory Control and Data Acquisition ("DSCADA") for CL&P allows the remote control and monitoring of substation and line devices. CL&P has installed a 450 MHz radio telecommunications system in locations throughout Connecticut to enable two-way communication between field equipment and the System Operation Center. In some areas, a 900 MHz system is being installed where the available 450 MHz is limited.

DSCADA allows operators to remotely monitor and operate switches, reclosers and circuit breakers. This new capability aids in quicker isolation of faulted areas, thus allowing electric service to be more readily restored to some customers before line repairs are made. There are approximately 3,000 reclosers installed on the CL&P distribution system. The Company's cost-benefit analysis indicates the highest benefit is achieved when the first device and all circuit ties have been DSCADA enabled.

In 2001, the Company completed the installation of several DSCADA pilot programs. By year-end 2008, DSCADA had the capability of remotely de-energizing 484 circuits. CL&P presently has 592 circuits with at least one remotely controlled device. Of the approximately 3,000 installed reclosers, 1,395 have been upgraded with DSCADA capabilities. This DSCADA capability provides remote control and status information for 68% of CL&P distribution circuit miles.

RELIABILITY IMPROVEMENT PROGRAMS BUDGETS

Budgets for capital reliability improvement projects are established as part of CL&P's Distribution Capital Program. Budgets for O&M items such as tree trimming are developed on an annual basis. Through a review and approval process, available resources are apportioned to the tasks that will yield the greatest improvement in reliability.

Capital Budget

The 2009 Reliability Improvement Programs covered in Section F, along with other system improvement initiatives, will be funded from a 2009 capital budget of approximately $278 M. Maintenance tree trimming and infrared inspection programs are funded by O&M budgets. Budgets have been established for the following major reliability improvements:

1. Worst Circuit Improvements (TDRP)
   Each year CL&P analyzes the worst circuits based on reliability performance, and implements corrective actions for these circuits. The following table shows the improvement budgets for the last five years, as well as 2009 planned expenditures.

TDRP Worst Circuit Improvement Budget
($000 omitted)

Year	Total
2004	5,152
2005	6,834
2006	8,201
2007	4,899
2008	8,250
2009	8,048

2. Annual Reliability Budget

   The 2009 reliability improvement budget is shown below along with the 2008 budget and actual expenditures.

Reliability Improvement Annual Projects
(Including Direct Buried (DB) Cable Replacements)
($000 omitted)

2008 Budget	2008 Actual	2009 Budget
9,615	10,779	10,459

Note: 2009 Budget includes $4.5 M for the DB Cable Replacement and Rejuvenation Program as described on Page 13, Reliability Improvement Programs.

3. Resolution of Unique Reliability Situations

CL&P recognizes that, despite its many programmatic approaches to reliability improvements, certain unique situations must be addressed individually. Cost-effective projects to address special reliability problems are proposed, reviewed, and approved on a case-by-case basis.

CL&P continues to address the reliability situations associated with the problems experienced in 2006 in the Stamford, Meriden and Waterbury underground network systems. Beginning in 2006 and continuing through 2008, CL&P has developed and completed several projects to improve the reliability to these three underground areas. These projects and associated work will be a multi-year effort and CL&P remains committed to completing all identified improvements as expeditiously as possible to correct and improve service reliability to customers served by network distribution systems in these areas.

Operations and Maintenance Budget

The major item that impacts reliability is tree trimming. Tree trimming budgets are established on an annual basis. The 2009 tree trimming budget is given below with the 2008 budget and actual expenditures also shown.

CL&P Tree Trimming
($000 omitted)

CL&P Tree Trimming	2008 Final Budget	2008 Actuals	2009 Budget
Scheduled Maintenance Trimming	19,051	19,024	19,600
Enhanced Tree Trimming (1)	8,616	8,374	4,490
Total	27,666	27,398	24,090

Note (1): Capital Dollars

H. SUMMARY

CL&P is committed to maintaining and improving the reliability of its electric system and is confident that the programs identified in this report will continue to further that commitment.

INDEX OF APPENDICES
2009 TDRP REPORT

APPENDIX 1

Five-Year Outage
By Cause Summary

REPORT NUMBER: APPENDIX 1

REPORT NAME: FIVE-YEAR OUTAGE BY CAUSE SUMMARY

CRITERIA: DURATION GREATER THAN 5 MINUTES

ALL MAJOR STORMS EXCLUDED

CUSTOMER COUNT GREATER THAN 0

CONNECTICUT LIGHT AND POWER COMPANY
CAUSES OF OUTAGES
SYSTEM - DIVISION TOTALS
FOR FIVE YEAR PERIOD 2004 TO 2008

ORIGIN_TITLE	2008 TOTAL NUMBER OF INTERRUPTIONS	2008 TOTAL CUSTOMER MINUTES INTERPTD	2007 TOTAL NUMBER OF INTERRUPTIONS	2007 TOTAL CUSTOMER MINUTES INTERPTD	2006 TOTAL NUMBER OF INTERRUPTIONS	2006 TOTAL CUSTOMER MINUTES INTERPTD	2005 TOTAL NUMBER OF INTERRUPTIONS	2005 TOTAL CUSTOMER MINUTES INTERPTD	2004 TOTAL NUMBER OF INTERRUPTIONS	2004 TOTAL CUSTOMER MINUTES INTERPTD
A POWER SUPPLY	18	145804	6	659062	34	1052995	20	21695	54	797800
B PLANNED	117	1007683	195	1680397	252	2424105	232	1673632	163	1412887
C CUSTOMER CAUSED	112	438917	30	7682	46	13706	102	43170	130	38846
D ANIMALS/BIRDS	1744	15599425	2794	16040940	2668	12649695	1369	9029366	1668	12779005
E LIGHTNING	492	16133714	558	9438647	545	10099547	603	10822895	686	10630108
F OVERLOAD	344	3469559	409	1064002	515	1332237	973	4055206	521	6720756
G TREE RELATED	3747	55316569	5232	47711460	5224	53301470	4778	46972545	3609	35730884
H VEHICLE/ACCIDENT	442	9187415	657	13291774	687	14382001	694	13851241	704	19279262
I CONTACT WITH FOREIGN OBJECT	118	1818542	198	2133897	209	4373794	180	1497785	232	2300614
J EMPLOYEE OPERATING ERROR	85	840213	118	2874726	104	3851707	140	1737568	138	4053982
K OTHER	355	2231450	489	3247271	455	2262075	775	5184335	939	8807132
L EQUIPMENT FAILURE OVERHEAD	753	14131086	1327	18248886	1358	21396707	1433	22225799	1022	19224117
M EQUIPMENT FAILURE UNDERGROUND CABLE	69	4068293	86	4728205	102	8106711	135	9775494	77	6307866
N EQUIPMENT FAILURE DIRECT BURIED	470	6873946	741	7889185	618	5820649	668	9773015	623	6862285
O EQUIPMENT FAILURE TRANSMISSION	1	3563127	1	1232270	20	2251290	1	1087089	3	280558
P EQUIPMENT FAILURE SUBSTATION	7	739634	18	3028558	21	5317669	37	3870291	60	9968622
Q EQUIPMENT FAILURE TRANSFORMER	421	5374558	781	4422956	656	4721119	700	6965473	480	6694111
R EQUIPMENT FAILURE OTHER	0	0	1	588	0	0	0	0	0	0
S UNKNOWN	723	5157698	1696	10973241	1601	9354331	1365	8872100	1388	15609926
TOTAL SYSTEM	10018	146097633	15337	148673747	15115	162711808	14205	157458699	12497	167498761

CAUSES NOT LISTED ABOVE HAD NO ACTIVITY IN THE REPORTING PERIOD INDICATED.
THE COMPLETE CAUSE LIST FOLLOWS:

A POWER SUPPLY
B PLANNED
C CUSTOMER CAUSED
D ANIMALS/BIRDS
E LIGHTNING
F OVERLOAD
G TREE RELATED
H VEHICLE/ACCIDENT
I CONTACT WITH FOREIGN OBJECT
J EMPLOYEE OPERATING ERROR
K OTHER
L EQUIPMENT FAILURE OVERHEAD
M EQUIPMENT FAILURE UNDERGROUND CABLE
N EQUIPMENT FAILURE DIRECT BURIED
O EQUIPMENT FAILURE TRANSMISSION
P EQUIPMENT FAILURE SUBSTATION
Q EQUIPMENT FAILURE TRANSFORMER
R EQUIPMENT FAILURE OTHER
S UNKNOWN

DIVISION: CENTRAL

CONNECTICUT LIGHT AND POWER COMPANY
CAUSES OF OUTAGES
SYSTEM - DIVISION TOTALS
FOR FIVE YEAR PERIOD 2004 TO 2008

DPUC DOCKET NO. 86-12-03
DATA REQUEST DPUC-ORDER APPENDIX 1

ORIGIN_TITLE	2008 TOTAL NUMBER OF INTERRUPTIONS	2008 TOTAL CUSTOMER MINUTES INTERPTD	2007 TOTAL NUMBER OF INTERRUPTIONS	2007 TOTAL CUSTOMER MINUTES INTERPTD	2006 TOTAL NUMBER OF INTERRUPTIONS	2006 TOTAL CUSTOMER MINUTES INTERPTD	2005 TOTAL NUMBER OF INTERRUPTIONS	2005 TOTAL CUSTOMER MINUTES INTERPTD	2004 TOTAL NUMBER OF INTERRUPTIONS	2004 TOTAL CUSTOMER MINUTES INTERPTD
A POWER SUPPLY	3	1659	2	17543	9	15115	5	2365	15	4057
B PLANNED	43	455804	60	240069	58	1003179	66	734040	43	514937
C CUSTOMER CAUSED	21	66835	6	3105	8	1304	19	6426	15	4940
D ANIMALS/BIRDS	219	2933192	443	3417329	364	2728673	215	2844277	259	2156651
E LIGHTNING	86	5391370	102	1676530	154	3631444	66	1476782	86	1840526
F OVERLOAD	59	777161	84	193967	107	251003	164	348719	71	453257
G TREE RELATED	591	9169472	768	7759982	833	11335923	763	8645194	585	7584638
H VEHICLE/ACCIDENT	102	2523440	141	2748387	165	3206368	167	3335099	149	4629159
I CONTACT WITH FOREIGN OBJECT	39	633105	49	403720	64	2708012	41	248145	66	1187236
J EMPLOYEE OPERATING ERROR	15	121149	42	862213	27	616407	28	189646	31	168444
K OTHER	89	557484	98	457024	107	643835	122	1357440	107	699421
L EQUIPMENT FAILURE OVERHEAD	168	3805417	234	3404054	260	5037027	277	4068706	207	3006370
M EQUIPMENT FAILURE UNDERGROUND CABLE	28	2543954	44	2845454	44	5313203	82	7097605	30	1771035
N EQUIPMENT FAILURE DIRECT BURIED	131	1833576	195	2095678	154	1582949	203	2337342	175	2046094
O EQUIPMENT FAILURE TRANSMISSION	1	3563127	0	0	20	2251290	1	1087089	1	11560
P EQUIPMENT FAILURE SUBSTATION	1	10044	5	1604950	1	47797	16	2541597	28	2040804
Q EQUIPMENT FAILURE TRANSFORMER	81	1477459	125	1387125	130	1081103	170	2463354	114	821450
R EQUIPMENT FAILURE OTHER	0	0	1	588	0	0	0	0	0	0
S UNKNOWN	118	801964	293	2991855	308	2458168	270	2723342	271	3735399
*TOTAL CENTRAL	1795	36666212	2692	32109573	2813	43912800	2675	41507168	2253	32675978

CAUSES NOT LISTED ABOVE HAD NO ACTIVITY IN THE REPORTING PERIOD INDICATED.
THE COMPLETE CAUSE LIST FOLLOWS:

A POWER SUPPLY
B PLANNED
C CUSTOMER CAUSED
D ANIMALS/BIRDS
E LIGHTNING
F OVERLOAD
G TREE RELATED
H VEHICLE/ACCIDENT
I CONTACT WITH FOREIGN OBJECT
J EMPLOYEE OPERATING ERROR
K OTHER
L EQUIPMENT FAILURE OVERHEAD
M EQUIPMENT FAILURE UNDERGROUND CABLE
N EQUIPMENT FAILURE DIRECT BURIED
O EQUIPMENT FAILURE TRANSMISSION
P EQUIPMENT FAILURE SUBSTATION
Q EQUIPMENT FAILURE TRANSFORMER
R EQUIPMENT FAILURE OTHER
S UNKNOWN

CL&P BEGAN TRACKING HISTORICAL RELIABILITY DATA BY DIVISION IN 2002. THIS DIVISIONAL STRUCTURE WAS RE-ALIGNED AND FURTHER CONSOLIDATED IN 2004.

DIVISION: EASTERN

CONNECTICUT LIGHT AND POWER COMPANY
CAUSES OF OUTAGES
SYSTEM - DIVISION TOTALS
FOR FIVE YEAR PERIOD 2004 TO 2008

DPUC DOCKET NO. 86-12-03
DATA REQUEST DPUC-ORDER APPENDIX 1

		2008		2007		2006		2005		2004	
	ORIGIN_TITLE	TOTAL NUMBER OF INTERRUPTIONS	TOTAL CUSTOMER MINUTES INTERPTD	TOTAL NUMBER OF INTERRUPTIONS	TOTAL CUSTOMER MINUTES INTERPTD	TOTAL NUMBER OF INTERRUPTIONS	TOTAL CUSTOMER MINUTES INTERPTD	TOTAL NUMBER OF INTERRUPTIONS	TOTAL CUSTOMER MINUTES INTERPTD	TOTAL NUMBER OF INTERRUPTIONS	TOTAL CUSTOMER MINUTES INTERPTD
A	POWER SUPPLY	3	20960	0	0	8	1627	1	66	6	1237
B	PLANNED	17	158618	58	699311	85	489841	49	378982	27	357977
C	CUSTOMER CAUSED	35	163333	10	1566	17	5754	29	29211	48	16053
D	ANIMALS/BIRDS	459	3328761	615	2532219	580	2204351	390	2740042	525	3667640
E	LIGHTNING	129	3233329	104	2160849	135	3432169	89	2117056	173	1691141
F	OVERLOAD	83	773291	102	305489	127	418848	192	481376	145	463412
G	TREE RELATED	1182	17286418	1711	16937065	1686	15812106	1552	15189406	1084	8605204
H	VEHICLE/ACCIDENT	140	2705973	188	4454728	217	5125790	216	3758159	232	3944536
I	CONTACT WITH FOREIGN OBJECT	27	208191	61	584938	44	746618	45	376558	65	176949
J	EMPLOYEE OPERATING ERROR	27	111908	32	1344326	30	1253990	41	675488	38	1735010
K	OTHER	75	471944	129	629648	113	469798	187	1984854	196	957813
L	EQUIPMENT FAILURE OVERHEAD	189	4245938	320	4288613	353	5835638	410	6500684	359	5614447
M	EQUIPMENT FAILURE UNDERGROUND CABLE	7	49041	3	40527	8	769461	20	882493	9	279381
N	EQUIPMENT FAILURE DIRECT BURIED	98	1704990	174	1937334	132	1651735	154	2513399	155	1470776
O	EQUIPMENT FAILURE TRANSMISSION	0	0	0	0	0	0	0	0	1	266730
P	EQUIPMENT FAILURE SUBSTATION	0	0	4	414032	6	840276	11	808843	15	1509805
Q	EQUIPMENT FAILURE TRANSFORMER	141	1378204	246	1418939	236	2088687	242	1134477	191	3735465
S	UNKNOWN	263	2230720	538	3283267	558	2333606	485	2529631	442	6105395
	*TOTAL EASTERN	2875	38071619	4295	41032851	4335	43480295	4113	42100725	3711	40598971

CAUSES NOT LISTED ABOVE HAD NO ACTIVITY IN THE REPORTING PERIOD INDICATED.
THE COMPLETE CAUSE LIST FOLLOWS:

A POWER SUPPLY
B PLANNED
C CUSTOMER CAUSED
D ANIMALS/BIRDS
E LIGHTNING
F OVERLOAD
G TREE RELATED
H VEHICLE/ACCIDENT
I CONTACT WITH FOREIGN OBJECT
J EMPLOYEE OPERATING ERROR
K OTHER
L EQUIPMENT FAILURE OVERHEAD
M EQUIPMENT FAILURE UNDERGROUND CABLE
N EQUIPMENT FAILURE DIRECT BURIED
O EQUIPMENT FAILURE TRANSMISSION
P EQUIPMENT FAILURE SUBSTATION
Q EQUIPMENT FAILURE TRANSFORMER
R EQUIPMENT FAILURE OTHER
S UNKNOWN

CL&P BEGAN TRACKING HISTORICAL RELIABILITY DATA BY DIVISION IN 2002. THIS DIVISIONAL STRUCTURE WAS RE-ALIGNED AND FURTHER CONSOLIDATED IN 2004.

DIVISION: SOUTHERN

CONNECTICUT LIGHT AND POWER COMPANY
CAUSES OF OUTAGES
SYSTEM - DIVISION TOTALS
FOR FIVE YEAR PERIOD 2004 TO 2008

DPUC DOCKET NO. 86-12-03
DATA REQUEST DPUC-ORDER APPENDIX 1

ORIGIN_TITLE	2008 TOTAL NUMBER OF INTERRUPTIONS	2008 TOTAL CUSTOMER MINUTES INTERPTD	2007 TOTAL NUMBER OF INTERRUPTIONS	2007 TOTAL CUSTOMER MINUTES INTERPTD	2006 TOTAL NUMBER OF INTERRUPTIONS	2006 TOTAL CUSTOMER MINUTES INTERPTD	2005 TOTAL NUMBER OF INTERRUPTIONS	2005 TOTAL CUSTOMER MINUTES INTERPTD	2004 TOTAL NUMBER OF INTERRUPTIONS	2004 TOTAL CUSTOMER MINUTES INTERPTD
A POWER SUPPLY	8	85120	3	641379	7	3263	6	2917	12	66998
B PLANNED	25	201358	40	300375	65	364270	67	172222	37	197509
C CUSTOMER CAUSED	31	54189	12	2109	15	5718	24	3769	34	8513
D ANIMALS/BIRDS	666	6009412	1012	3716153	1079	3400361	479	1531256	462	3432922
E LIGHTNING	159	3375830	196	2768871	141	1402427	260	4554420	320	5120317
F OVERLOAD	139	1096438	127	271894	188	397767	386	1464837	182	1407683
G TREE RELATED	1229	18007653	1771	11588757	1780	16014667	1528	12214131	1201	10412682
H VEHICLE/ACCIDENT	93	1636072	155	2320995	144	1735035	157	2138980	136	3502612
I CONTACT WITH FOREIGN OBJECT	34	367535	56	530883	51	190683	47	166555	40	714371
J EMPLOYEE OPERATING ERROR	25	312549	24	129970	31	1780522	36	148676	36	708664
K OTHER	91	545566	110	558685	129	773865	299	1130379	395	5193800
L EQUIPMENT FAILURE OVERHEAD	213	2556312	424	5734083	368	5245482	343	4961022	215	5587788
M EQUIPMENT FAILURE UNDERGROUND CABLE	18	978636	25	1535456	26	720496	14	1137500	14	489572
N EQUIPMENT FAILURE DIRECT BURIED	145	1462288	219	1642724	173	1130130	186	2898357	163	1971799
O EQUIPMENT FAILURE TRANSMISSION	0	0	0	0	0	0	0	0	1	2268
P EQUIPMENT FAILURE SUBSTATION	1	10546	5	76924	10	3906481	3	30362	10	2719385
Q EQUIPMENT FAILURE TRANSFORMER	89	1413216	217	716238	154	688589	138	1308144	67	1466174
S UNKNOWN	188	1061311	476	1873761	438	3103194	336	1682486	384	2084884
*TOTAL SOUTHERN	3154	39174031	4872	34409257	4799	40862950	4309	35546013	3709	45087941

CAUSES NOT LISTED ABOVE HAD NO ACTIVITY IN THE REPORTING PERIOD INDICATED.
THE COMPLETE CAUSE LIST FOLLOWS:

A POWER SUPPLY
B PLANNED
C CUSTOMER CAUSED
D ANIMALS/BIRDS
E LIGHTNING
F OVERLOAD
G TREE RELATED
H VEHICLE/ACCIDENT
I CONTACT WITH FOREIGN OBJECT
J EMPLOYEE OPERATING ERROR
K OTHER
L EQUIPMENT FAILURE OVERHEAD
M EQUIPMENT FAILURE UNDERGROUND CABLE
N EQUIPMENT FAILURE DIRECT BURIED
O EQUIPMENT FAILURE TRANSMISSION
P EQUIPMENT FAILURE SUBSTATION
Q EQUIPMENT FAILURE TRANSFORMER
R EQUIPMENT FAILURE OTHER
S UNKNOWN

CL&P BEGAN TRACKING HISTORICAL RELIABILITY DATA BY DIVISION IN 2002. THIS DIVISIONAL STRUCTURE WAS RE-ALIGNED AND FURTHER CONSOLIDATED IN 2004.

FOR FIVE YEAR PERIOD 2004 TO 2008

ORIGIN_TITLE	2008 TOTAL NUMBER OF INTERRUPTIONS	2008 TOTAL CUSTOMER MINUTES INTERPTD	2007 TOTAL NUMBER OF INTERRUPTIONS	2007 TOTAL CUSTOMER MINUTES INTERPTD	2006 TOTAL NUMBER OF INTERRUPTIONS	2006 TOTAL CUSTOMER MINUTES INTERPTD	2005 TOTAL NUMBER OF INTERRUPTIONS	2005 TOTAL CUSTOMER MINUTES INTERPTD	2004 TOTAL NUMBER OF INTERRUPTIONS	2004 TOTAL CUSTOMER MINUTES INTERPTD
A POWER SUPPLY	4	38065	1	140	10	1032990	8	16347	21	725508
B PLANNED	32	191903	37	440642	44	566815	50	388388	56	342464
C CUSTOMER CAUSED	25	154560	2	902	6	930	30	3764	33	9340
D ANIMALS/BIRDS	400	3328060	724	6375239	645	4316310	285	1913791	422	3521792
E LIGHTNING	118	4133185	156	2832397	115	1633507	188	2674637	107	1978124
F OVERLOAD	63	822669	96	292652	93	264619	231	1760274	123	4396404
G TREE RELATED	745	10853026	982	11425656	925	10138774	935	10923814	739	9128360
H VEHICLE/ACCIDENT	107	2321930	173	3767664	161	4314808	154	4619003	187	7202955
I CONTACT WITH FOREIGN OBJECT	18	609711	32	614356	50	728481	47	706527	61	222058
J EMPLOYEE OPERATING ERROR	18	294607	20	538217	16	200788	35	723758	33	1441864
K OTHER	100	656456	152	1601914	106	374577	167	711662	241	1956098
L EQUIPMENT FAILURE OVERHEAD	183	3523419	349	4822136	377	5278560	403	6695387	241	5015512
M EQUIPMENT FAILURE UNDERGROUND CABLE	16	496662	14	306768	24	1303551	19	657896	24	3767878
N EQUIPMENT FAILURE DIRECT BURIED	96	1873092	153	2213449	159	1455835	125	2023917	130	1373616
O EQUIPMENT FAILURE TRANSMISSION	0	0	1	1232270	0	0	0	0	0	0
P EQUIPMENT FAILURE SUBSTATION	5	719044	4	932652	4	523115	7	489489	7	3698628
Q EQUIPMENT FAILURE TRANSFORMER	110	1105679	193	900654	136	862740	150	2059498	108	671022
S UNKNOWN	154	1063703	389	2824358	297	1459363	274	1936641	291	3684248
*TOTAL WESTERN	2194	32185771	3478	41122066	3168	34455763	3108	38304793	2824	49135871

****
***** END OF REPORT *****
****

CAUSES NOT LISTED ABOVE HAD NO ACTIVITY IN THE REPORTING PERIOD INDICATED.
THE COMPLETE CAUSE LIST FOLLOWS:

A POWER SUPPLY
B PLANNED
C CUSTOMER CAUSED
D ANIMALS/BIRDS
E LIGHTNING
F OVERLOAD
G TREE RELATED
H VEHICLE/ACCIDENT
I CONTACT WITH FOREIGN OBJECT
J EMPLOYEE OPERATING ERROR
K OTHER
L EQUIPMENT FAILURE OVERHEAD
M EQUIPMENT FAILURE UNDERGROUND CABLE
N EQUIPMENT FAILURE DIRECT BURIED
O EQUIPMENT FAILURE TRANSMISSION
P EQUIPMENT FAILURE SUBSTATION
Q EQUIPMENT FAILURE TRANSFORMER
R EQUIPMENT FAILURE OTHER
S UNKNOWN

CL&P BEGAN TRACKING HISTORICAL RELIABILITY DATA BY DIVISION IN 2002. THIS DIVISIONAL STRUCTURE WAS RE-ALIGNED AND FURTHER CONSOLIDATED IN 2004.

REPORT NUMBER: APPENDIX 1

REPORT NAME: FIVE-YEAR OUTAGE BY CAUSE SUMMARY

CRITERIA: DURATION GREATER THAN 5 MINUTES

ALL MAJOR STORMS EXCLUDED

CUSTOMER COUNT GREATER THAN 0

FOR FIVE YEAR PERIOD 2004 TO 2008

ORIGIN_TITLE	2008 TOTAL NUMBER OF INTERRUPTIONS	2008 TOTAL CUSTS INTERPTD	2007 TOTAL NUMBER OF INIERRUPTIONS	2007 TOTAL CUSTS INTERPTD	2006 TOTAL NUMBER OF INTERRUPTIONS	2006 TOTAL CUSTS INTERPTD	2005 TOTAL NUMBER OF INTERRUPTIONS	2005 TOTAL CUSTS INTERPTD	2004 TOTAL NUMBER OF INTERRUPTIONS	2004 TOTAL CUSTS INTERPTD
A POWER SUPPLY	18	9906	6	15987	34	12344	20	169	54	11064
B PLANNED	117	12303	195	27091	252	37330	232	14818	163	12579
C CUSTOMER CAUSED	112	3725	30	40	46	87	102	299	130	290
D ANIMALS/BIRDS	1744	165846	2794	153402	2668	134980	1369	75116	1668	122368
E LIGHTNING	492	91432	558	74488	545	55059	603	74303	686	54255
F OVERLOAD	344	22171	409	7396	515	9325	973	32384	521	27544
G TREE RELATED	3747	401091	5232	338414	5224	321039	4778	305689	3609	221861
H VEHICLE/ACCIDENT	442	72375	657	102563	687	108511	694	107004	704	111848
I CONTACT WITH FOREIGN OBJECT	118	15224	198	17010	209	24564	180	14084	232	13108
J EMPLOYEE OPERATING ERROR	85	19776	118	38019	104	43885	140	24546	138	43108
K OTHER	355	34469	489	40786	455	30686	775	46460	939	70886
L EQUIPMENT FAILURE OVERHEAD	753	123960	1327	176516	1358	190275	1433	218556	1022	153541
M EQUIPMENT FAILURE UNDERGROUND CABLE	69	21515	86	26109	102	47435	135	58085	77	27679
N EQUIPMENT FAILURE DIRECT BURIED	470	38922	741	30362	618	22674	668	34477	623	23248
O EQUIPMENT FAILURE TRANSMISSION	1	9919	1	13449	20	46924	1	9561	3	2752
P EQUIPMENT FAILURE SUBSTATION	7	6960	18	29767	21	38304	37	55083	60	69302
Q EQUIPMENT FAILURE TRANSFORMER	421	37310	781	28401	656	22299	700	40547	480	19615
R EQUIPMENT FAILURE OTHER	0	0	1	14	0	0	0	0	0	0
S UNKNOWN	723	56119	1696	93313	1601	106716	1365	82794	1388	109758
TOTAL SYSTEM	10018	1143023	15337	1213127	15115	1252437	14205	1193975	12497	1094806

CAUSES NOT LISTED ABOVE HAD NO ACTIVITY IN THE REPORTING PERIOD INDICATED.
THE COMPLETE CAUSE LIST FOLLOWS:

A POWER SUPPLY
B PLANNED
C CUSTOMER CAUSED
D ANIMALS/BIRDS
E LIGHTNING
F OVERLOAD
G TREE RELATED
H VEHICLE/ACCIDENT
I CONTACT WITH FOREIGN OBJECT
J EMPLOYEE OPERATING ERROR
K OTHER
L EQUIPMENT FAILURE OVERHEAD
M EQUIPMENT FAILURE UNDERGROUND CABLE
N EQUIPMENT FAILURE DIRECT BURIED
O EQUIPMENT FAILURE TRANSMISSION
P EQUIPMENT FAILURE SUBSTATION
Q EQUIPMENT FAILURE TRANSFORMER
R EQUIPMENT FAILURE OTHER
S UNKNOWN

DIVISION: CENTRAL

CONNECTICUT LIGHT AND POWER COMPANY
CAUSES OF OUTAGES
SYSTEM - DIVISION TOTALS
FOR FIVE YEAR PERIOD 2004 TO 2008

	ORIGIN_TITLE	2008 TOTAL NUMBER OF INTERRUPTIONS	2008 TOTAL CUSTS INTERPTD	2007 TOTAL NUMBER OF INTERRUPTIONS	2007 TOTAL CUSTS INTERPTD	2006 TOTAL NUMBER OF INTERRUPTIONS	2006 TOTAL CUSTS INTERPTD	2005 TOTAL NUMBER OF INTERRUPTIONS	2005 TOTAL CUSTS INTERPTD	2004 TOTAL NUMBER OF INTERRUPTIONS	2004 TOTAL CUSTS INTERPTD
A	POWER SUPPLY	3	14	2	164	9	51	5	23	15	32
B	PLANNED	43	5638	60	4700	58	5959	66	4636	43	3072
C	CUSTOMER CAUSED	21	519	6	9	8	8	19	40	15	32
D	ANIMALS/BIRDS	219	28830	443	34004	364	28759	215	18310	259	21065
E	LIGHTNING	86	25109	102	11142	154	16224	66	10163	86	7466
F	OVERLOAD	59	4983	84	1244	107	1256	164	1738	71	1892
G	TREE RELATED	591	70826	768	58878	833	70799	763	63778	585	45355
H	VEHICLE/ACCIDENT	102	16978	141	29601	165	22446	167	31418	149	24876
I	CONTACT WITH FOREIGN OBJECT	39	5842	49	3074	64	7474	41	3953	66	5848
J	EMPLOYEE OPERATING ERROR	15	1841	42	10083	27	8718	28	1562	31	2233
K	OTHER	89	5151	98	9452	107	6716	122	9108	107	4277
L	EQUIPMENT FAILURE OVERHEAD	168	33710	234	39806	260	40864	277	42204	207	25373
M	EQUIPMENT FAILURE UNDERGROUND CABLE	28	10514	44	12952	44	26883	82	38223	30	9658
N	EQUIPMENT FAILURE DIRECT BURIED	131	9894	195	9331	154	5181	203	7563	175	7324
O	EQUIPMENT FAILURE TRANSMISSION	1	9919	0	0	20	46924	1	9561	1	1156
P	EQUIPMENT FAILURE SUBSTATION	1	558	5	12540	1	1737	16	32013	28	19611
Q	EQUIPMENT FAILURE TRANSFORMER	81	8823	125	7791	130	4700	170	9235	114	6564
R	EQUIPMENT FAILURE OTHER	0	0	1	14	0	0	0	0	0	0
S	UNKNOWN	118	8040	293	21026	308	19692	270	21457	271	25793
	*TOTAL CENTRAL	1795	247189	2692	265811	2813	314391	2675	304985	2253	211627

CAUSES NOT LISTED ABOVE HAD NO ACTIVITY IN THE REPORTING PERIOD INDICATED.
THE COMPLETE CAUSE LIST FOLLOWS:

A POWER SUPPLY
B PLANNED
C CUSTOMER CAUSED
D ANIMALS/BIRDS
E LIGHTNING
F OVERLOAD
G TREE RELATED
H VEHICLE/ACCIDENT
I CONTACT WITH FOREIGN OBJECT
J EMPLOYEE OPERATING ERROR
K OTHER
L EQUIPMENT FAILURE OVERHEAD
M EQUIPMENT FAILURE UNDERGROUND CABLE
N EQUIPMENT FAILURE DIRECT BURIED
O EQUIPMENT FAILURE TRANSMISSION
P EQUIPMENT FAILURE SUBSTATION
Q EQUIPMENT FAILURE TRANSFORMER
R EQUIPMENT FAILURE OTHER
S UNKNOWN

CL&P BEGAN TRACKING HISTORICAL RELIABILITY DATA BY DIVISION IN 2002. THIS DIVISIONAL STRUCTURE WAS RE-ALIGNED AND FURTHER CONSOLIDATED IN 2004.

DIVISION: EASTERN

CONNECTICUT LIGHT AND POWER COMPANY
CAUSES OF OUTAGES
SYSTEM - DIVISION TOTALS
FOR FIVE YEAR PERIOD 2004 TO 2008

DPUC DOCKET NO. 86-12-03
DATA REQUEST DPUC-ORDER APPENDIX 1

ORIGIN_TITLE	2008 TOTAL NUMBER OF INTERRUPTIONS	2008 TOTAL CUSTS INTERPTD	2007 TOTAL NUMBER OF INTERRUPTIONS	2007 TOTAL CUSTS INTERPTD	2006 TOTAL NUMBER OF INTERRUPTIONS	2006 TOTAL CUSTS INTERPTD	2005 TOTAL NUMBER OF INTERRUPTIONS	2005 TOTAL CUSTS INTERPTD	2004 TOTAL NUMBER OF INTERRUPTIONS	2004 TOTAL CUSTS INTERPTD
A POWER SUPPLY	3	143	0	0	8	8	1	3	6	8
B PLANNED	17	2298	58	11633	85	13534	49	3788	27	2726
C CUSTOMER CAUSED	35	1442	10	14	17	37	29	203	48	114
D ANIMALS/BIRDS	459	37324	615	26077	580	23412	390	24555	525	38703
E LIGHTNING	129	15261	104	20272	135	20181	89	10605	173	10582
F OVERLOAD	83	5137	102	2771	127	2235	192	4931	145	4645
G TREE RELATED	1182	121264	1711	128247	1686	94681	1552	101432	1084	60849
H VEHICLE/ACCIDENT	140	22602	188	28099	217	41551	216	31446	232	33267
I CONTACT WITH FOREIGN OBJECT	27	2158	61	7003	44	10345	45	2837	65	2152
J EMPLOYEE OPERATING ERROR	27	1821	32	17628	30	17886	41	12185	38	20390
K OTHER	75	8471	129	5927	113	9034	187	17596	196	15148
L EQUIPMENT FAILURE OVERHEAD	189	35536	320	36470	353	54889	410	64131	359	52222
M EQUIPMENT FAILURE UNDERGROUND CABLE	7	134	3	305	8	3906	20	8129	9	1141
N EQUIPMENT FAILURE DIRECT BURIED	98	10176	174	6443	132	5501	154	11125	155	6355
O EQUIPMENT FAILURE TRANSMISSION	0	0	0	0	0	0	0	0	1	1569
P EQUIPMENT FAILURE SUBSTATION	0	0	4	3999	6	21163	11	16707	15	14084
Q EQUIPMENT FAILURE TRANSFORMER	141	12473	246	8841	236	9050	242	12998	191	5498
S UNKNOWN	263	22796	538	30461	558	21791	485	25926	442	40317
*TOTAL EASTERN	2875	299036	4295	334190	4335	349204	4113	348597	3711	309770

CAUSES NOT LISTED ABOVE HAD NO ACTIVITY IN THE REPORTING PERIOD INDICATED.
THE COMPLETE CAUSE LIST FOLLOWS:

A POWER SUPPLY
B PLANNED
C CUSTOMER CAUSED
D ANIMALS/BIRDS
E LIGHTNING
F OVERLOAD
G TREE RELATED
H VEHICLE/ACCIDENT
I CONTACT WITH FOREIGN OBJECT
J EMPLOYEE OPERATING ERROR
K OTHER
L EQUIPMENT FAILURE OVERHEAD
M EQUIPMENT FAILURE UNDERGROUND CABLE
N EQUIPMENT FAILURE DIRECT BURIED
O EQUIPMENT FAILURE TRANSMISSION
P EQUIPMENT FAILURE SUBSTATION
Q EQUIPMENT FAILURE TRANSFORMER
R EQUIPMENT FAILURE OTHER
S UNKNOWN

CL&P BEGAN TRACKING HISTORICAL RELIABILITY DATA BY DIVISION IN 2002. THIS DIVISIONAL STRUCTURE WAS RE-ALIGNED AND FURTHER CONSOLIDATED IN 2004.

DIVISION: SOUTHERN

CONNECTICUT LIGHT AND POWER COMPANY
CAUSES OF OUTAGES
SYSTEM - DIVISION TOTALS
FOR FIVE YEAR PERIOD 2004 TO 2008

DPUC DOCKET NO. 86-12-03
DATA REQUEST DPUC-ORDER APPENDIX 1

ORIGIN_TITLE	2008 TOTAL NUMBER OF INTERRUPTIONS	2008 TOTAL CUSTS INTERPTD	2007 TOTAL NUMBER OF INTERRUPTIONS	2007 TOTAL CUSTS INTERPTD	2006 TOTAL NUMBER OF INTERRUPTIONS	2006 TOTAL CUSTS INTERPTD	2005 TOTAL NUMBER OF INTERRUPTIONS	2005 TOTAL CUSTS INTERPTD	2004 TOTAL NUMBER OF INTERRUPTIONS	2004 TOTAL CUSTS INTERPTD
A POWER SUPPLY	8	5708	3	15821	7	26	6	13	12	4517
B PLANNED	25	2161	40	4211	65	3556	67	3459	37	2416
C CUSTOMER CAUSED	31	434	12	14	15	36	24	26	34	77
D ANIMALS/BIRDS	666	65714	1012	42437	1079	41632	479	17975	462	32081
E LIGHTNING	159	19931	196	16004	141	11243	260	31557	320	26865
F OVERLOAD	139	5899	127	1745	188	4645	386	13395	182	10609
G TREE RELATED	1229	121209	1771	76474	1780	95808	1528	75817	1201	62235
H VEHICLE/ACCIDENT	93	15980	155	17680	144	15760	157	16534	136	16011
I CONTACT WITH FOREIGN OBJECT	34	2407	56	4082	51	1572	47	1800	40	3784
J EMPLOYEE OPERATING ERROR	25	7130	24	3142	31	16704	36	1163	36	9778
K OTHER	91	6752	110	7852	129	11819	299	9964	395	31951
L EQUIPMENT FAILURE OVERHEAD	213	25813	424	48393	368	44233	343	42892	215	35788
M EQUIPMENT FAILURE UNDERGROUND CABLE	18	6410	25	10839	26	9404	14	5352	14	3653
N EQUIPMENT FAILURE DIRECT BURIED	145	8750	219	6031	173	4666	186	10482	163	5466
O EQUIPMENT FAILURE TRANSMISSION	0	0	0	0	0	0	0	0	1	27
P EQUIPMENT FAILURE SUBSTATION	1	183	5	806	10	13782	3	1206	10	24810
Q EQUIPMENT FAILURE TRANSFORMER	89	6437	217	4633	154	4130	138	4894	67	1520
S UNKNOWN	188	14528	476	15839	438	50943	336	15236	384	17138
*TOTAL SOUTHERN	3154	315446	4872	276003	4799	329959	4309	251765	3709	288726

CAUSES NOT LISTED ABOVE HAD NO ACTIVITY IN THE REPORTING PERIOD INDICATED.
THE COMPLETE CAUSE LIST FOLLOWS:

A POWER SUPPLY
B PLANNED
C CUSTOMER CAUSED
D ANIMALS/BIRDS
E LIGHTNING
F OVERLOAD
G TREE RELATED
H VEHICLE/ACCIDENT
I CONTACT WITH FOREIGN OBJECT
J EMPLOYEE OPERATING ERROR
K OTHER
L EQUIPMENT FAILURE OVERHEAD
M EQUIPMENT FAILURE UNDERGROUND CABLE
N EQUIPMENT FAILURE DIRECT BURIED
O EQUIPMENT FAILURE TRANSMISSION
P EQUIPMENT FAILURE SUBSTATION
Q EQUIPMENT FAILURE TRANSFORMER
R EQUIPMENT FAILURE OTHER
S UNKNOWN

CL&P BEGAN TRACKING HISTORICAL RELIABILITY DATA BY DIVISION IN 2002. THIS DIVISIONAL STRUCTURE WAS RE-ALIGNED AND FURTHER CONSOLIDATED IN 2004.

DIVISION: WESTERN

CONNECTICUT LIGHT AND POWER COMPANY
CAUSES OF OUTAGES
SYSTEM - DIVISION TOTALS
FOR FIVE YEAR PERIOD 2004 TO 2008

DPUC DOCKET NO. 86-12-03
DATA REQUEST DPUC-ORDER APPENDIX 1

ORIGIN_TITLE	2008 TOTAL NUMBER OF INTERRUPTIONS	2008 TOTAL CUSTS INTERPTD	2007 TOTAL NUMBER OF INTERRUPTIONS	2007 TOTAL CUSTS INTERPTD	2006 TOTAL NUMBER OF INTERRUPTIONS	2006 TOTAL CUSTS INTERPTD	2005 TOTAL NUMBER OF INTERRUPTIONS	2005 TOTAL CUSTS INTERPTD	2004 TOTAL NUMBER OF INTERRUPTIONS	2004 TOTAL CUSTS INTERPTD
A POWER SUPPLY	4	4041	1	2	10	12259	8	130	21	6507
B PLANNED	32	2206	37	6547	44	14281	50	2935	56	4365
C CUSTOMER CAUSED	25	1330	2	3	6	6	30	30	33	67
D ANIMALS/BIRDS	400	33978	724	50884	645	41177	285	14276	422	30519
E LIGHTNING	118	31131	156	27070	115	7411	188	21978	107	9342
F OVERLOAD	63	6152	96	1636	93	1189	231	12320	123	10398
G TREE RELATED	745	87792	982	74815	925	59751	935	64662	739	53422
H VEHICLE/ACCIDENT	107	16815	173	27183	161	28754	154	27606	187	37694
I CONTACT WITH FOREIGN OBJECT	18	4817	32	2851	50	5173	47	5494	61	1324
J EMPLOYEE OPERATING ERROR	18	8984	20	7166	16	577	35	9636	33	10707
K OTHER	100	14095	152	17555	106	3117	167	9792	241	19510
L EQUIPMENT FAILURE OVERHEAD	183	28901	349	51847	377	50289	403	69329	241	40158
M EQUIPMENT FAILURE UNDERGROUND CABLE	16	4457	14	2013	24	7242	19	6381	24	13227
N EQUIPMENT FAILURE DIRECT BURIED	96	10102	153	8557	159	7326	125	5307	130	4103
O EQUIPMENT FAILURE TRANSMISSION	0	0	1	13449	0	0	0	0	0	0
P EQUIPMENT FAILURE SUBSTATION	5	6219	4	12422	4	1622	7	5157	7	10797
Q EQUIPMENT FAILURE TRANSFORMER	110	9577	193	7136	136	4419	150	13420	108	6033
S UNKNOWN	154	10755	389	25987	297	14290	274	20175	291	26510
*TOTAL WESTERN	2194	281352	3478	337123	3168	258883	3108	288628	2824	284683

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***** END OF REPORT *****
****

CAUSES NOT LISTED ABOVE HAD NO ACTIVITY IN THE REPORTING PERIOD INDICATED.
THE COMPLETE CAUSE LIST FOLLOWS:

A POWER SUPPLY
B PLANNED
C CUSTOMER CAUSED
D ANIMALS/BIRDS
E LIGHTNING
F OVERLOAD
G TREE RELATED
H VEHICLE/ACCIDENT
I CONTACT WITH FOREIGN OBJECT
J EMPLOYEE OPERATING ERROR
K OTHER
L EQUIPMENT FAILURE OVERHEAD
M EQUIPMENT FAILURE UNDERGROUND CABLE
N EQUIPMENT FAILURE DIRECT BURIED
O EQUIPMENT FAILURE TRANSMISSION
P EQUIPMENT FAILURE SUBSTATION
Q EQUIPMENT FAILURE TRANSFORMER
R EQUIPMENT FAILURE OTHER
S UNKNOWN

CL&P BEGAN TRACKING HISTORICAL RELIABILITY DATA BY DIVISION IN 2002. THIS DIVISIONAL STRUCTURE WAS RE-ALIGNED AND FURTHER CONSOLIDATED IN 2004.

CONNECTICUT LIGHT AND POWER COMPANY
CUSTOMER COUNTS
SYSTEM - DIVISION TOTALS
FOR FIVE YEAR PERIOD 2004 TO 2008

DPUC DOCKET NO. 86-12-03
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	2008	2007	2006	2005	2004
CENTRAL	327709	325565	323016	319717	316860
EASTERN	304775	302861	299992	296710	291714
SOUTHERN	264321	262743	260937	258846	255183
WESTERN	347437	345446	342897	339717	336273
CL+P	1244242	1236615	1226842	1214990	1200030

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***** END OF REPORT *****
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APPENDIX 2

Reliability of System Components Summary

This appendix was eliminated based on the changes approved in the DPUC decision dated January 6, 1999.

APPENDIX 3

Five-Year
Transmission Outage
By Cause Summary

This appendix was eliminated based on the changes approved in the DPUC decision dated January 6, 1999.

APPENDIX 4

Five-Year
Substation Outage
By Cause Summary

This appendix was eliminated based on the changes approved in the DPUC decision dated January 6, 1999.

APPENDIX 5

No Data

The data formerly contained in this appendix is no longer required. This appendix is being reserved for possible future required data.

APPENDIX 6

Five-Year
Outage Summary
By
Construction Type

This appendix was eliminated based on the changes approved in the DPUC decision dated January 6, 1999.

APPENDIX 7

Excluded Storm Summary

EXCLUDED STORM SUMMARY 2008

Company/ Division	Period Excluded	Storm Type	Duration (Days)	Peak Customers Interrupted	Total Customer Hours Interrupted
CL&P	Jan-14	Heavy Wet Snow	1	38,353	215,280
	Feb-13	Snow, Rain, Ice	1	28,669	200,453
	Mar 08-09	Rain, Wind	2	17,686	234,089
	Jun-08	Thunderstorms	1	27,382	167,578
	Jun 10-11	Thunderstorms	2	38,192	567,208
	Jun 14-15	Thunderstorms	2	18,719	126,636
	Jul 23-24	Thunderstorms	2	21,606	228,820
	Sep 6-7	Storm Hanna	2	22,386	155,101
	Oct 25-26	Rain, Wind	2	55,253	595,011
	Dec 11-13	Ice	3	20,847	424,318
	Dec-30	Wind	1	18,980	101,345
Central	Aug-07	Thunderstorms	1	2,206	7,931
	Jul-27	Thunderstorms	1	3,100	15,488
Eastern	Jul-27	Thunderstorms	1	4,740	30,219
Southern	May-27	Thunderstorms	1	39,950	141,071
Western	May-27	Thunderstorms	1	15,451	36,932
	Jun-12	Thunderstorms	1	1,133	17,084
	Jul-27	Thunderstorms	1	3,791	50,726

In accordance with the Department's Order, CL&P continues to exclude qualifying interruption data at the Company and Division level.

APPENDIX 8

Text File of Circuit Data

Due to the large volume of data required for Appendix 8, a one-page sample format is included as part of this report. The full data requirements have been provided to the Department on one 3-1/2 inch diskette.

REPORT NUMBER: APPENDIX 8

REPORT NAME: SUBSTATION/CIRCUIT DATA

CRITERIA: DURATION GREATER THAN 5 MINUTES

ALL MAJOR STORMS EXCLUDED

CUSTOMER COUNT GREATER THAN 1

CONNECTICUT LIGHT AND POWER COMPANY
SUBSTATION/CIRCUIT DATA
FOR YEAR 2008

DPUC DOCKET NO. 86-12-03
DATA REQUEST DPUC-ORDER APPENDIX 8

SUBSTATION NAME	CIRCUIT VOLTAGE	CIRCUIT	CUSTOMERS ON CIRCUIT	SAIDI	SAIFI	CAIDI	3 OR MORE
ALBANY AVENUE	4.8	3604	425	49	.18	273.03	0
	4.8	3606	334	71	.31	229.94	0
	4.8	3607	373	4	.09	49.00	0
	4.8	3608	326		.01	16.00	0
	4.8	3609	253	68	1.19	57.04	0
BALDWIN	4.8	13F1	381	30	.18	171.00	0
	4.8	13F2	1781	16	.28	58.36	0
	4.8	13F3	620	6	.02	209.16	0
	13.8	13F61	77	22	.18	126.00	0
	13.8	13F64	1433	287	1.41	202.90	100
	13.8	13F65	1354	70	.95	74.60	114
	13.8	13F66	1109	7	.17	43.86	5
	13.8	13F67	1180	19	.17	111.99	1
	13.8	13F71	2296	96	.47	201.76	92

..... END OF SAMPLE REPORT, SEE DISKETTE FOR FULL DETAILS.

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***** END OF REPORT *****
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APPENDIX 9

Transmission and Distribution System Miles Per Construction Type and Voltage Class

TRANSMISSION AND DISTRIBUTION SYSTEM MILES

PER CONSTRUCTION TYPE AND VOLTAGE CLASS

Transmission	Note 1		
Construction Type	69 kV Circuit Miles	115 kV Circuit Miles	345 kV Circuit Miles
Non-Tree Wire	97.2	1092.2	446.9
Underground Cable	2.8	85.9*	46.2

Distribution				
Construction Type	5 kV Circuit Miles	15 kV Circuit Miles	25 kV Circuit Miles	35 kV Circuit Miles
Tree Wire	494.6	3927.5	2466.1	32.0
Aerial Cable	6.0	68.1	24.8	18.9
Spacer Cable	38.6	307.3	145.6	32.2
Other Overhead	2482.8	4068.1	2593.9	237.8
Underground**	172.7	3224.2	2682.1	83.8

Note 1: The overhead 69 kV to 345 kV data in the table is based on the 2008 Forecast of Loads and Resources for 2008-2017 dated March 1, 2008 and supplemental CL&P underground cable data.

* This includes three cable circuits each 5.8 miles long operating at 138 kV across Long Island Sound to the New York State line that is owned by CL&P. The remaining length is owned by the Long Island Power Authority.

** Includes both Direct Buried and Conventional Duct-Type Circuit Miles.

APPENDIX 10

Outages Per 100 Miles Of Line
By
Construction Type and Voltage Class

This appendix was eliminated based on the changes approved in the DPUC decision dated January 6, 1999.

APPENDIX 11

100 Worst SAIDI Circuits

REPORT NUMBER: APPENDIX 11

REPORT NAME: 100 WORST SAIDI CIRCUITS

CRITERIA: SCHEDULED, FORCED TRANS./POWER SUPPLY, CUSTOMER AND MAJOR STORMS EXCLUDED.

SECTION III.C.

CONNECTICUT LIGHT AND POWER COMPANY
SAIDI 100 WORST CIRCUIT LIST - 2008 **

DPUC DOCKET NO. 86-12-03
DATA REQUEST DPUC-ORDER APPENDIX 11

DIVISION	CIRCUIT NUMBER	SAIDI		RANKING 2008	RANKING 2007	RANKING 2006	RANKING 2005	RANKING 2004	TOTAL OCCURRENCES FOR FIVE YEAR PERIOD
WESTERN	14R31	4034		1	0	0	0	0	1
CENTRAL	2306	3377	*	2	0	64	8	0	3
SOUTHERN	16Q2	1307		3	0	65	18	67	4
SOUTHERN	11A50	1110	*	4	0	53	0	0	2
CENTRAL	300B1	1095		5	0	0	0	0	1
SOUTHERN	485	1019		6	0	0	0	0	1
WESTERN	4C71	969	*	7	26	0	32	0	3
CENTRAL	47N7	833		8	0	0	0	0	1
EASTERN	34F2	781		9	0	0	0	0	1
CENTRAL	2904	674		10	89	29	25	0	4
SOUTHERN	22E6	657		11	0	33	0	0	2
CENTRAL	303Q2	598		12	41	0	0	0	2
SOUTHERN	27K1	595		13	0	58	0	32	3
WESTERN	29W1	591		14	17	0	0	0	2
SOUTHERN	22E4	590		15	0	0	0	0	1
WESTERN	14R53	589		16	5	0	0	0	2
EASTERN	34F3	580		17	0	0	0	0	1
SOUTHERN	9S14	578		18	0	0	0	0	1
SOUTHERN	16Q7	558		19	0	0	0	88	2
CENTRAL	4A1	558		20	60	0	0	0	2
EASTERN	24L3	552		21	0	0	0	0	1
EASTERN	12S5	544		22	20	51	0	0	3
WESTERN	11H12	533		23	0	0	0	0	1
EASTERN	24L2	533		24	0	0	0	0	1
WESTERN	26F1	526		25	39	0	0	0	2
CENTRAL	1401	522		26	0	0	88	0	2
WESTERN	15U1	518		27	4	0	0	0	2
WESTERN	4L09	504		28	0	0	60	0	2
WESTERN	29J1	496		29	0	0	0	0	1
WESTERN	21K8	486		30	0	0	0	0	1

* CUSTOMER COUNT DECLINE GREATER THAN OR EQUAL TO 20%

INCLUDES SECONDARIES AND SERVICES

** EXCLUDES THE FOLLOWING:
- OUTAGES CAUSED BY POWER SUPPLY OR TRANSMISSION PROBLEMS
- SCHEDULED OUTAGES
- OUTAGES DUE TO MAJOR STORMS
- OUTAGES CAUSED BY CUSTOMER EQUIPMENT CONNECTED TO OUR LINES

DIVISION	CIRCUIT NUMBER	SAIDI		RANKING 2008	RANKING 2007	RANKING 2006	RANKING 2005	RANKING 2004	TOTAL OCCURRENCES FOR FIVE YEAR PERIOD
EASTERN	1Q5	482		31	0	0	0	0	1
CENTRAL	14W5	480		32	0	0	0	0	1
WESTERN	11W76	479		33	0	4	0	0	2
SOUTHERN	27K5	464		34	10	1	0	0	3
SOUTHERN	24A14	463		35	31	0	0	65	3
CENTRAL	135	461		36	74	19	42	0	4
CENTRAL	388F3	457		37	72	0	0	0	2
EASTERN	32P1	454		38	84	0	0	0	2
EASTERN	24K2	449		39	0	0	0	0	1
SOUTHERN	27K2	444		40	0	2	0	0	2
CENTRAL	119	440		41	22	10	10	0	4
SOUTHERN	23K16	430		42	37	0	0	0	2
SOUTHERN	27F14	427		43	0	0	0	0	1
CENTRAL	2N03	426		44	0	22	0	0	2
SOUTHERN	27K3	422		45	30	11	37	0	4
EASTERN	20J1	421	*	46	0	0	0	0	1
CENTRAL	301B4	421		47	0	38	0	0	2
WESTERN	4L08	411		48	0	76	57	0	3
EASTERN	30R13	403		49	0	0	0	0	1
CENTRAL	2N05	397		50	0	3	29	55	4
SOUTHERN	28M2	391		51	0	0	0	0	1
CENTRAL	4H03	388		52	0	0	0	0	1
SOUTHERN	4R13	388		53	0	87	0	0	2
WESTERN	25H1	384		54	0	0	0	19	2
SOUTHERN	12N18	379	*	55	0	0	0	0	1
EASTERN	11C12	377		56	0	0	0	0	1
CENTRAL	47N9	377		57	0	0	0	0	1
CENTRAL	14W12	370		58	0	0	0	0	1
CENTRAL	300F4	370		59	0	0	2	0	2
WESTERN	12F43	359		60	52	0	0	13	3

* CUSTOMER COUNT DECLINE GREATER THAN OR EQUAL TO 20%

INCLUDES SECONDARIES AND SERVICES

** EXCLUDES THE FOLLOWING:
- OUTAGES CAUSED BY POWER SUPPLY OR TRANSMISSION PROBLEMS
- SCHEDULED OUTAGES
- OUTAGES DUE TO MAJOR STORMS
- OUTAGES CAUSED BY CUSTOMER EQUIPMENT CONNECTED TO OUR LINES

SECTION III.C.

CONNECTICUT LIGHT AND POWER COMPANY
SAIDI 100 WORST CIRCUIT LIST - 2008 **

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DIVISION	CIRCUIT NUMBER	SAIDI	RANKING 2008	2007	2006	2005	2004	TOTAL OCCURRENCES FOR FIVE YEAR PERIOD
CENTRAL	319J2	359	61	0	0	0	0	1
SOUTHERN	31C2	357	62	0	23	0	64	3
CENTRAL	2209	356	63	0	0	0	0	1
EASTERN	6A10	354	64	78	0	0	0	2
WESTERN	20H3	353	65	0	0	0	0	1
EASTERN	11B2	352	66	0	0	0	0	1
EASTERN	22D2	352	67	0	0	34	0	2
SOUTHERN	12H5	348	68	0	0	0	0	1
SOUTHERN	11A55	344	69	0	0	0	0	1
SOUTHERN	22E36	342	70	0	31	0	0	2
CENTRAL	43F2	338	71	0	18	0	0	2
CENTRAL	47N3	332	72	0	0	0	0	1
SOUTHERN	12H16	326	73	0	0	0	0	1
CENTRAL	2N17	323	74	0	0	0	0	1
WESTERN	31C1	323	75	0	0	87	0	2
EASTERN	11B1	322	76	0	0	0	0	1
EASTERN	30R15	321	77	0	0	0	0	1
SOUTHERN	12Y8	320	78	0	34	0	36	3
SOUTHERN	21M15	318	79	0	0	0	0	1
SOUTHERN	22M11	318	80	0	0	0	42	2
CENTRAL	300Z3	315	81	77	0	0	0	2
WESTERN	4L06	314	82	94	13	15	63	5
CENTRAL	36M2	311	83	0	0	0	0	1
WESTERN	5L04	310	84	34	0	0	0	2
WESTERN	12B32	309	85	76	0	0	0	2
EASTERN	15L68	305	86	0	69	0	0	2
CENTRAL	2N10	305	87	0	0	0	0	1
WESTERN	19U2	304	88	0	0	0	0	1
EASTERN	30R12	304	89	0	0	0	0	1
EASTERN	7A77	304	90	0	0	0	0	1

* CUSTOMER COUNT DECLINE GREATER THAN OR EQUAL TO 20%

INCLUDES SECONDARIES AND SERVICES

** EXCLUDES THE FOLLOWING:
- OUTAGES CAUSED BY POWER SUPPLY OR TRANSMISSION PROBLEMS
- SCHEDULED OUTAGES
- OUTAGES DUE TO MAJOR STORMS
- OUTAGES CAUSED BY CUSTOMER EQUIPMENT CONNECTED TO OUR LINES

DIVISION	CIRCUIT NUMBER	SAIDI		*----------RANKING----------* 2008	2007	2006	2005	2004	TOTAL OCCURRENCES FOR FIVE YEAR PERIOD
WESTERN	11N88	301		91	97	0	0	0	2
EASTERN	15L5	296	*	92	0	0	0	0	1
EASTERN	16M2	296		93	0	0	0	0	1
WESTERN	21K1	292		94	100	0	54	0	3
WESTERN	13F64	288		95	0	0	0	0	1
SOUTHERN	22W2	287		96	0	0	0	0	1
CENTRAL	2N12	286		97	0	0	0	0	1
CENTRAL	303Q1	286		98	0	0	0	0	1
CENTRAL	4204	285		99	0	0	0	0	1
EASTERN	22D3	284		100	0	83	0	0	2

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***** END OF REPORT *****
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* CUSTOMER COUNT DECLINE GREATER THAN OR EQUAL TO 20%

INCLUDES SECONDARIES AND SERVICES

** EXCLUDES THE FOLLOWING:
- OUTAGES CAUSED BY POWER SUPPLY OR TRANSMISSION PROBLEMS
- SCHEDULED OUTAGES
- OUTAGES DUE TO MAJOR STORMS
- OUTAGES CAUSED BY CUSTOMER EQUIPMENT CONNECTED TO OUR LINES

REPORT NUMBER: APPENDIX 11

REPORT NAME: 100 WORST SAIDI CIRCUITS

CRITERIA: SCHEDULED, FORCED TRANS./POWER SUPPLY, CUSTOMER AND MAJOR STORMS EXCLUDED.

DIVISION	CIRCUIT NUMBER	SAIDI		*----------RANKING----------* 2008	2007	2006	2005	2004	TOTAL OCCURRENCES FOR FIVE YEAR PERIOD
CENTRAL	2306	3377	*	2	0	64	8	0	3
	300B1	1095		5	0	0	0	0	1
	47N7	833		8	0	0	0	0	1
	2904	674		10	89	29	25	0	4
	303Q2	598		12	41	0	0	0	2
	4A1	558		20	60	0	0	0	2
	1401	522		26	0	0	88	0	2
	14W5	480		32	0	0	0	0	1
	135	461		36	74	19	42	0	4
	388F3	457		37	72	0	0	0	2
	119	440		41	22	10	10	0	4
	2N03	426		44	0	22	0	0	2
	301B4	421		47	0	38	0	0	2
	2N05	397		50	0	3	29	55	4
	4H03	388		52	0	0	0	0	1
	47N9	377		57	0	0	0	0	1
	14W12	370		58	0	0	0	0	1
	300F4	370		59	0	0	2	0	2
	319J2	359		61	0	0	0	0	1
	2209	356		63	0	0	0	0	1
	43F2	338		71	0	18	0	0	2
	47N3	332		72	0	0	0	0	1
	2N17	323		74	0	0	0	0	1
	300Z3	315		81	77	0	0	0	2
	36M2	311		83	0	0	0	0	1
	2N10	305		87	0	0	0	0	1
	2N12	286		97	0	0	0	0	1
	303Q1	286		98	0	0	0	0	1
	4204	285		99	0	0	0	0	1

* CUSTOMER COUNT DECLINE GREATER THAN OR EQUAL TO 20%

INCLUDES SECONDARIES AND SERVICES

** EXCLUDES THE FOLLOWING:
- OUTAGES CAUSED BY POWER SUPPLY OR TRANSMISSION PROBLEMS
- SCHEDULED OUTAGES
- OUTAGES DUE TO MAJOR STORMS
- OUTAGES CAUSED BY CUSTOMER EQUIPMENT CONNECTED TO OUR LINES

SECTION III.C.

CONNECTICUT LIGHT AND POWER COMPANY
SAIDI 100 WORST CIRCUIT LIST - 2008 **

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DIVISION	CIRCUIT NUMBER	SAIDI		RANKING 2008	RANKING 2007	RANKING 2006	RANKING 2005	RANKING 2004	TOTAL OCCURRENCES FOR FIVE YEAR PERIOD
EASTERN	34F2	781		9	0	0	0	0	1
	34F3	580		17	0	0	0	0	1
	24L3	552		21	0	0	0	0	1
	12S5	544		22	20	51	0	0	3
	24L2	533		24	0	0	0	0	1
	1Q5	482		31	0	0	0	0	1
	32P1	454		38	84	0	0	0	2
	24K2	449		39	0	0	0	0	1
	20J1	421	*	46	0	0	0	0	1
	30R13	403		49	0	0	0	0	1
	11C12	377		56	0	0	0	0	1
	6A10	354		64	78	0	0	0	2
	11B2	352		66	0	0	0	0	1
	22D2	352		67	0	0	34	0	2
	11B1	322		76	0	0	0	0	1
	30R15	321		77	0	0	0	0	1
	15L68	305		86	0	69	0	0	2
	30R12	304		89	0	0	0	0	1
	7A77	304		90	0	0	0	0	1
	15L5	296	*	92	0	0	0	0	1
	16M2	296		93	0	0	0	0	1
	22D3	284		100	0	83	0	0	2

* CUSTOMER COUNT DECLINE GREATER THAN OR EQUAL TO 20%

INCLUDES SECONDARIES AND SERVICES

** EXCLUDES THE FOLLOWING:
- OUTAGES CAUSED BY POWER SUPPLY OR TRANSMISSION PROBLEMS
- SCHEDULED OUTAGES
- OUTAGES DUE TO MAJOR STORMS
- OUTAGES CAUSED BY CUSTOMER EQUIPMENT CONNECTED TO OUR LINES

DIVISION	CIRCUIT NUMBER	SAIDI		*----------RANKING----------* 2008	2007	2006	2005	2004	TOTAL OCCURRENCES FOR FIVE YEAR PERIOD
SOUTHERN	16Q2	1307		3	0	65	18	67	4
	11A50	1110	*	4	0	53	0	0	2
	485	1019		6	0	0	0	0	1
	22E6	657		11	0	33	0	0	2
	27K1	595		13	0	58	0	32	3
	22E4	590		15	0	0	0	0	1
	9S14	578		18	0	0	0	0	1
	16Q7	558		19	0	0	0	88	2
	27K5	464		34	10	1	0	0	3
	24A14	463		35	31	0	0	65	3
	27K2	444		40	0	2	0	0	2
	23K16	430		42	37	0	0	0	2
	27F14	427		43	0	0	0	0	1
	27K3	422		45	30	11	37	0	4
	28M2	391		51	0	0	0	0	1
	4R13	388		53	0	87	0	0	2
	12N18	379	*	55	0	0	0	0	1
	31C2	357		62	0	23	0	64	3
	12H5	348		68	0	0	0	0	1
	11A55	344		69	0	0	0	0	1
	22E36	342		70	0	31	0	0	2
	12H16	326		73	0	0	0	0	1
	12Y8	320		78	0	34	0	36	3
	21M15	318		79	0	0	0	0	1
	22M11	318		80	0	0	0	42	2
	22W2	287		96	0	0	0	0	1

* CUSTOMER COUNT DECLINE GREATER THAN OR EQUAL TO 20%

INCLUDES SECONDARIES AND SERVICES

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- SCHEDULED OUTAGES
- OUTAGES DUE TO MAJOR STORMS
- OUTAGES CAUSED BY CUSTOMER EQUIPMENT CONNECTED TO OUR LINES

SECTION III.C.

CONNECTICUT LIGHT AND POWER COMPANY
SAIDI 100 WORST CIRCUIT LIST - 2008 **

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DIVISION	CIRCUIT NUMBER	SAIDI		RANKING 2008	RANKING 2007	RANKING 2006	RANKING 2005	RANKING 2004	TOTAL OCCURRENCES FOR FIVE YEAR PERIOD
WESTERN	14R31	4034		1	0	0	0	0	1
	4C71	969	*	7	26	0	32	0	3
	29W1	591		14	17	0	0	0	2
	14R53	589		16	5	0	0	0	2
	11H12	533		23	0	0	0	0	1
	26F1	526		25	39	0	0	0	2
	15U1	518		27	4	0	0	0	2
	4L09	504		28	0	0	60	0	2
	29J1	496		29	0	0	0	0	1
	21K8	486		30	0	0	0	0	1
	11W76	479		33	0	4	0	0	2
	4L08	411		48	0	76	57	0	3
	25H1	384		54	0	0	0	19	2
	12F43	359		60	52	0	0	13	3
	20H3	353		65	0	0	0	0	1
	31C1	323		75	0	0	87	0	2
	4L06	314		82	94	13	15	63	5
	5L04	310		84	34	0	0	0	2
	12B32	309		85	76	0	0	0	2
	19U2	304		88	0	0	0	0	1
	11N88	301		91	97	0	0	0	2
	21K1	292		94	100	0	54	0	3
	13F64	288		95	0	0	0	0	1

* CUSTOMER COUNT DECLINE GREATER THAN OR EQUAL TO 20%

INCLUDES SECONDARIES AND SERVICES

** EXCLUDES THE FOLLOWING:
- OUTAGES CAUSED BY POWER SUPPLY OR TRANSMISSION PROBLEMS
- SCHEDULED OUTAGES
- OUTAGES DUE TO MAJOR STORMS
- OUTAGES CAUSED BY CUSTOMER EQUIPMENT CONNECTED TO OUR LINES

****
***** END OF REPORT *****
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APPENDIX 12

100 Worst SAIFI Circuits

REPORT NUMBER: APPENDIX 12

REPORT NAME: 100 WORST SAIFI CIRCUITS

CRITERIA: SCHEDULED, FORCED TRANS./POWER SUPPLY, CUSTOMER AND MAJOR STORMS EXCLUDED.

DIVISION	CIRCUIT NUMBER	SAIFI		RANKING 2008	RANKING 2007	RANKING 2006	RANKING 2005	RANKING 2004	TOTAL OCCURRENCES FOR FIVE YEAR PERIOD
SOUTHERN	11A50	7.26	*	1	0	6	0	0	2
WESTERN	4C3	5.15		2	0	0	0	0	1
CENTRAL	4H03	4.52		3	0	0	0	99	2
CENTRAL	2306	4.51	*	4	0	0	28	0	2
EASTERN	11B1	4.41		5	0	0	0	0	1
SOUTHERN	27K5	4.40		6	9	9	0	0	3
WESTERN	26F1	4.30		7	77	0	0	0	2
WESTERN	11W76	4.23		8	0	35	0	0	2
EASTERN	11B61	4.17		9	62	94	0	0	3
WESTERN	1B07	4.12		10	0	0	0	0	1
SOUTHERN	27K3	3.96		11	15	2	46	0	4
SOUTHERN	22E4	3.81		12	96	0	0	0	2
SOUTHERN	16Q2	3.69		13	0	34	34	65	4
EASTERN	12S5	3.60		14	13	0	0	0	2
WESTERN	4L06	3.44		15	5	28	15	0	4
EASTERN	24K2	3.34		16	0	0	0	0	1
CENTRAL	14W5	3.30		17	0	0	0	84	2
EASTERN	11B2	3.26		18	0	0	0	0	1
SOUTHERN	21J4	3.22		19	23	0	0	0	2
SOUTHERN	22E6	3.22		20	0	18	0	0	2
WESTERN	15U1	3.16		21	32	0	0	0	2
WESTERN	17Q1	3.11		22	18	91	0	0	3
EASTERN	20Y1	3.10		23	0	0	0	0	1
WESTERN	17Q2	3.08		24	20	51	100	0	4
CENTRAL	36M2	3.06		25	0	0	0	0	1
EASTERN	11B63	3.00		26	0	0	0	0	1
SOUTHERN	485	3.00		27	0	0	0	0	1
WESTERN	7L84	3.00		28	0	0	0	0	1
WESTERN	29W1	2.99		29	0	0	0	0	1
SOUTHERN	27K1	2.98		30	0	75	0	66	3

* CUSTOMER COUNT DECLINE GREATER THAN OR EQUAL TO 20%

INCLUDES SECONDARIES AND SERVICES

** EXCLUDES THE FOLLOWING:
- OUTAGES CAUSED BY POWER SUPPLY OR TRANSMISSION PROBLEMS
- SCHEDULED OUTAGES
- OUTAGES DUE TO MAJOR STORMS
- OUTAGES CAUSED BY CUSTOMER EQUIPMENT CONNECTED TO OUR LINES

SECTION III.C.

CONNECTICUT LIGHT AND POWER COMPANY
SAIFI 100 WORST CIRCUIT LIST - 2008 **

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DIVISION	CIRCUIT NUMBER	SAIFI	RANKING 2008	2007	2006	2005	2004	TOTAL OCCURRENCES FOR FIVE YEAR PERIOD
SOUTHERN	27K2	2.98	31	0	8	0	0	2
CENTRAL	1904	2.89	32	44	11	48	0	4
EASTERN	21Y2	2.89	33	0	0	0	0	1
WESTERN	12B32	2.88	34	45	0	0	0	2
SOUTHERN	28M2	2.87	35	0	0	0	0	1
SOUTHERN	21M15	2.86	36	0	0	0	0	1
EASTERN	7A82	2.82	37	0	37	52	0	3
WESTERN	11H12	2.77	38	0	0	0	0	1
EASTERN	22D2	2.75	39	0	0	86	0	2
EASTERN	32P1	2.69	40	0	0	0	0	1
CENTRAL	2N05	2.63	41	0	7	21	0	3
SOUTHERN	11A58	2.62	42	0	88	0	31	3
EASTERN	34F2	2.62	43	89	0	0	0	2
SOUTHERN	16Q7	2.61	44	0	85	0	24	3
SOUTHERN	12H5	2.60	45	0	0	0	0	1
SOUTHERN	12N14	2.59	46	38	0	0	38	3
CENTRAL	14W12	2.59	47	0	0	0	0	1
EASTERN	34F3	2.57	48	0	0	0	0	1
SOUTHERN	9S14	2.57	49	0	0	0	0	1
SOUTHERN	14H2	2.55	50	0	0	0	0	1
SOUTHERN	12N19	2.52	51	91	15	0	0	3
CENTRAL	1C19	2.51	52	0	50	0	0	2
WESTERN	21K8	2.50	53	0	0	0	0	1
CENTRAL	301B4	2.47	54	0	38	0	0	2
WESTERN	4L08	2.46	55	0	62	51	0	3
EASTERN	30R15	2.42	56	0	0	0	0	1
EASTERN	20Y2	2.37	57	0	0	0	0	1
SOUTHERN	23K16	2.37	58	0	0	0	0	1
WESTERN	4L09	2.36	59	0	0	0	0	1
CENTRAL	135	2.35	60	0	0	41	0	2

* CUSTOMER COUNT DECLINE GREATER THAN OR EQUAL TO 20%

INCLUDES SECONDARIES AND SERVICES

** EXCLUDES THE FOLLOWING:
- OUTAGES CAUSED BY POWER SUPPLY OR TRANSMISSION PROBLEMS
- SCHEDULED OUTAGES
- OUTAGES DUE TO MAJOR STORMS
- OUTAGES CAUSED BY CUSTOMER EQUIPMENT CONNECTED TO OUR LINES

DIVISION	CIRCUIT NUMBER	SAIFI		RANKING 2008	RANKING 2007	RANKING 2006	RANKING 2005	RANKING 2004	TOTAL OCCURRENCES FOR FIVE YEAR PERIOD
EASTERN	30R12	2.31		61	0	79	0	0	2
EASTERN	21Y3	2.27		62	0	0	0	0	1
WESTERN	29J1	2.27		63	0	0	0	0	1
SOUTHERN	12H3	2.24		64	0	0	0	0	1
CENTRAL	300U4	2.24		65	0	0	0	5	2
EASTERN	11Y8	2.21		66	0	0	0	0	1
CENTRAL	2304	2.21	*	67	73	0	14	0	3
SOUTHERN	31C2	2.21		68	0	3	0	48	3
SOUTHERN	22E36	2.20		69	0	4	0	0	2
WESTERN	1B10	2.19		70	0	0	0	0	1
SOUTHERN	27F14	2.17		71	58	0	0	0	2
EASTERN	9L08	2.15		72	82	0	0	0	2
CENTRAL	14L4	2.14	*	73	0	0	0	0	1
SOUTHERN	28M3	2.14		74	0	0	0	80	2
WESTERN	20F4	2.13		75	0	0	0	0	1
SOUTHERN	4R13	2.13		76	0	0	0	0	1
CENTRAL	4204	2.13		77	0	0	0	0	1
EASTERN	15L5	2.12	*	78	0	0	0	0	1
SOUTHERN	11A57	2.09		79	0	0	0	0	1
WESTERN	11N81	2.09		80	0	0	0	0	1
CENTRAL	47N7	2.09		81	0	0	0	0	1
SOUTHERN	35A1	2.08	*	82	0	0	0	0	1
EASTERN	7A79	2.08		83	0	0	0	0	1
WESTERN	1B08	2.07		84	0	0	0	0	1
EASTERN	13B27	2.07		85	0	0	0	0	1
CENTRAL	43F2	2.07		86	0	25	0	0	2
EASTERN	14M9	2.06		87	0	0	0	0	1
WESTERN	11W45	2.05		88	0	0	0	0	1
CENTRAL	18R01	2.04		89	92	98	0	0	3
CENTRAL	18R02	2.04		90	0	0	0	0	1

* CUSTOMER COUNT DECLINE GREATER THAN OR EQUAL TO 20%

INCLUDES SECONDARIES AND SERVICES

** EXCLUDES THE FOLLOWING:
- OUTAGES CAUSED BY POWER SUPPLY OR TRANSMISSION PROBLEMS
- SCHEDULED OUTAGES
- OUTAGES DUE TO MAJOR STORMS
- OUTAGES CAUSED BY CUSTOMER EQUIPMENT CONNECTED TO OUR LINES

SECTION III.C.

CONNECTICUT LIGHT AND POWER COMPANY
SAIFI 100 WORST CIRCUIT LIST - 2008 **

DPUC DOCKET NO. 86-12-03
DATA REQUEST DPUC-ORDER APPENDIX 12
PAGE: 4

DIVISION	CIRCUIT NUMBER	SAIFI	RANKING 2008	2007	2006	2005	2004	TOTAL OCCURRENCES FOR FIVE YEAR PERIOD
EASTERN	11Y1	2.03	91	90	0	53	0	3
SOUTHERN	23K11	2.03	92	0	0	0	0	1
EASTERN	14M22	2.02	93	0	0	13	0	2
CENTRAL	303Q1	2.01	94	0	0	0	0	1
EASTERN	1Q5	2.00	95	0	0	0	0	1
WESTERN	11W43	2.00	96	0	0	0	0	1
WESTERN	11W49	2.00	97	33	0	0	0	2
CENTRAL	2N11	2.00	98	0	0	0	0	1
CENTRAL	2209	2.00	99	0	0	0	0	1
CENTRAL	300F4	2.00	100	0	56	9	0	3

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***** END OF REPORT *****
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* CUSTOMER COUNT DECLINE GREATER THAN OR EQUAL TO 20%

INCLUDES SECONDARIES AND SERVICES

** EXCLUDES THE FOLLOWING:
- OUTAGES CAUSED BY POWER SUPPLY OR TRANSMISSION PROBLEMS
- SCHEDULED OUTAGES
- OUTAGES DUE TO MAJOR STORMS
- OUTAGES CAUSED BY CUSTOMER EQUIPMENT CONNECTED TO OUR LINES

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************************************************************
***                                                      ****
***  REPORT NUMBER: APPENDIX 12                          ****
***                                                      ****
***    REPORT NAME: 100 WORST SAIFI CIRCUITS             ****
***                                                      ****
***       CRITERIA: SCHEDULED, FORCED TRANS./POWER       ****
***                 SUPPLY, CUSTOMER AND MAJOR STORMS    ****
***                 EXCLUDED.                            ****
***                                                      ****
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SECTION III.C.

CONNECTICUT LIGHT AND POWER COMPANY
SAIFI 100 WORST CIRCUIT LIST - 2008 **

DPUC DOCKET NO. 86-12-03
DATA REQUEST DPUC-ORDER APPENDIX 12
PAGE: 1

DIVISION	CIRCUIT NUMBER	SAIFI	RANKING 2008	RANKING 2007	RANKING 2006	RANKING 2005	RANKING 2004	TOTAL OCCURRENCES FOR FIVE YEAR PERIOD
CENTRAL	4H03	4.52	3	0	0	0	99	2
	2306	4.51 *	4	0	0	28	0	2
	14W5	3.30	17	0	0	0	84	2
	36M2	3.06	25	0	0	0	0	1
	1904	2.89	32	44	11	48	0	4
	2N05	2.63	41	0	7	21	0	3
	14W12	2.59	47	0	0	0	0	1
	1C19	2.51	52	0	50	0	0	2
	301B4	2.47	54	0	38	0	0	2
	135	2.35	60	0	0	41	0	2
	300U4	2.24	65	0	0	0	5	2
	2304	2.21 *	67	73	0	14	0	3
	14L4	2.14 *	73	0	0	0	0	1
	4204	2.13	77	0	0	0	0	1
	47N7	2.09	81	0	0	0	0	1
	43F2	2.07	86	0	25	0	0	2
	18R01	2.04	89	92	98	0	0	3
	18R02	2.04	90	0	0	0	0	1
	303Q1	2.01	94	0	0	0	0	1
	2N11	2.00	98	0	0	0	0	1
	2209	2.00	99	0	0	0	0	1
	300F4	2.00	100	0	56	9	0	3

* CUSTOMER COUNT DECLINE GREATER THAN OR EQUAL TO 20%

INCLUDES SECONDARIES AND SERVICES

** EXCLUDES THE FOLLOWING:
- OUTAGES CAUSED BY POWER SUPPLY OR TRANSMISSION PROBLEMS
- SCHEDULED OUTAGES
- OUTAGES DUE TO MAJOR STORMS
- OUTAGES CAUSED BY CUSTOMER EQUIPMENT CONNECTED TO OUR LINES

DIVISION	CIRCUIT NUMBER	SAIFI	RANKING 2008	RANKING 2007	RANKING 2006	RANKING 2005	RANKING 2004	TOTAL OCCURRENCES FOR FIVE YEAR PERIOD
EASTERN	11B1	4.41	5	0	0	0	0	1
	11B61	4.17	9	62	94	0	0	3
	12S5	3.60	14	13	0	0	0	2
	24K2	3.34	16	0	0	0	0	1
	11B2	3.26	18	0	0	0	0	1
	20Y1	3.10	23	0	0	0	0	1
	11B63	3.00	26	0	0	0	0	1
	21Y2	2.89	33	0	0	0	0	1
	7A82	2.82	37	0	37	52	0	3
	22D2	2.75	39	0	0	86	0	2
	32P1	2.69	40	0	0	0	0	1
	34F2	2.62	43	89	0	0	0	2
	34F3	2.57	48	0	0	0	0	1
	30R15	2.42	56	0	0	0	0	1
	20Y2	2.37	57	0	0	0	0	1
	30R12	2.31	61	0	79	0	0	2
	21Y3	2.27	62	0	0	0	0	1
	11Y8	2.21	66	0	0	0	0	1
	9L08	2.15	72	82	0	0	0	2
	15L5	2.12 *	78	0	0	0	0	1
	7A79	2.08	83	0	0	0	0	1
	13B27	2.07	85	0	0	0	0	1
	14M9	2.06	87	0	0	0	0	1
	11Y1	2.03	91	90	0	53	0	3
	14M22	2.02	93	0	0	13	0	2
	1Q5	2.00	95	0	0	0	0	1

* CUSTOMER COUNT DECLINE GREATER THAN OR EQUAL TO 20%

INCLUDES SECONDARIES AND SERVICES

** EXCLUDES THE FOLLOWING:
- OUTAGES CAUSED BY POWER SUPPLY OR TRANSMISSION PROBLEMS
- SCHEDULED OUTAGES
- OUTAGES DUE TO MAJOR STORMS
- OUTAGES CAUSED BY CUSTOMER EQUIPMENT CONNECTED TO OUR LINES

DIVISION	CIRCUIT NUMBER	SAIFI	RANKING 2008	RANKING 2007	RANKING 2006	RANKING 2005	RANKING 2004	TOTAL OCCURRENCES FOR FIVE YEAR PERIOD
SOUTHERN	11A50	7.26 *	1	0	6	0	0	2
	27K5	4.40	6	9	9	0	0	3
	27K3	3.96	11	15	2	46	0	4
	22E4	3.81	12	96	0	0	0	2
	16Q2	3.69	13	0	34	34	65	4
	21J4	3.22	19	23	0	0	0	2
	22E6	3.22	20	0	18	0	0	2
	485	3.00	27	0	0	0	0	1
	27K1	2.98	30	0	75	0	66	3
	27K2	2.98	31	0	8	0	0	2
	28M2	2.87	35	0	0	0	0	1
	21M15	2.86	36	0	0	0	0	1
	11A58	2.62	42	0	88	0	31	3
	16Q7	2.61	44	0	85	0	24	3
	12H5	2.60	45	0	0	0	0	1
	12N14	2.59	46	38	0	0	38	3
	9S14	2.57	49	0	0	0	0	1
	14H2	2.55	50	0	0	0	0	1
	12N19	2.52	51	91	15	0	0	3
	23K16	2.37	58	0	0	0	0	1
	12H3	2.24	64	0	0	0	0	1
	31C2	2.21	68	0	3	0	48	3
	22E36	2.20	69	0	4	0	0	2
	27F14	2.17	71	58	0	0	0	2
	28M3	2.14	74	0	0	0	80	2
	4R13	2.13	76	0	0	0	0	1
	11A57	2.09	79	0	0	0	0	1
	35A1	2.08 *	82	0	0	0	0	1
	23K11	2.03	92	0	0	0	0	1

* CUSTOMER COUNT DECLINE GREATER THAN OR EQUAL TO 20%

INCLUDES SECONDARIES AND SERVICES

** EXCLUDES THE FOLLOWING:
- OUTAGES CAUSED BY POWER SUPPLY OR TRANSMISSION PROBLEMS
- SCHEDULED OUTAGES
- OUTAGES DUE TO MAJOR STORMS
- OUTAGES CAUSED BY CUSTOMER EQUIPMENT CONNECTED TO OUR LINES

DIVISION	CIRCUIT NUMBER	SAIFI	RANKING 2008	2007	2006	2005	2004	TOTAL OCCURRENCES FOR FIVE YEAR PERIOD
WESTERN	4C3	5.15	2	0	0	0	0	1
	26F1	4.30	7	77	0	0	0	2
	11W76	4.23	8	0	35	0	0	2
	1B07	4.12	10	0	0	0	0	1
	4L06	3.44	15	5	28	15	0	4
	15U1	3.16	21	32	0	0	0	2
	17Q1	3.11	22	18	91	0	0	3
	17Q2	3.08	24	20	51	100	0	4
	7L84	3.00	28	0	0	0	0	1
	29W1	2.99	29	0	0	0	0	1
	12B32	2.88	34	45	0	0	0	2
	11H12	2.77	38	0	0	0	0	1
	21K8	2.50	53	0	0	0	0	1
	4L08	2.46	55	0	62	51	0	3
	4L09	2.36	59	0	0	0	0	1
	29J1	2.27	63	0	0	0	0	1
	1B10	2.19	70	0	0	0	0	1
	20F4	2.13	75	0	0	0	0	1
	11N81	2.09	80	0	0	0	0	1
	1B08	2.07	84	0	0	0	0	1
	11W45	2.05	88	0	0	0	0	1
	11W43	2.00	96	0	0	0	0	1
	11W49	2.00	97	33	0	0	0	2

* CUSTOMER COUNT DECLINE GREATER THAN OR EQUAL TO 20%

INCLUDES SECONDARIES AND SERVICES

** EXCLUDES THE FOLLOWING:
- OUTAGES CAUSED BY POWER SUPPLY OR TRANSMISSION PROBLEMS
- SCHEDULED OUTAGES
- OUTAGES DUE TO MAJOR STORMS
- OUTAGES CAUSED BY CUSTOMER EQUIPMENT CONNECTED TO OUR LINES

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***** END OF REPORT *****
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APPENDIX 13

SAIDI/SAIFI Worst 4% Of All Circuits

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************************************************************
***                                                      ****
***  REPORT NUMBER: APPENDIX 13                          ****
***                                                      ****
***    REPORT NAME: SAIDI/SAIFI WORST 4% OF ALL CIRCUITS ****
***                                                      ****
***       CRITERIA: DURATION GREATER THAN 5 MINUTES      ****
***                                                      ****
***                 CUSTOMER COUNT GREATER THAN 0        ****
***                                                      ****
***                 'DISTRIBUTION SYSTEM' INTERRUPTIONS  ****
***                                                      ****
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SECTION V.

CONNECTICUT LIGHT AND POWER COMPANY
SAIDI/SAIFI 4-PCT WORST CIRCUIT LIST
FIVE YEAR TOTAL
RANKED BY SAIDI VALUE

DPUC DOCKET NO. 86-12-03
DATA REQUEST DPUC-ORDER APPENDIX 13

DISTRIBUTION SYSTEM

RANK	CIRCUIT	CC	2008 SAIDI (MINUTES)	2008 SAIFI	2007 SAIDI (MINUTES)	2007 SAIFI	2006 SAIDI (MINUTES)	2006 SAIFI	2005 SAIDI (MINUTES)	2005 SAIFI	2004 SAIDI (MINUTES)	2004 SAIFI
1	14R31		4034	1.00	0	.00	0	.00	98	.85	46	.13
2	2306	*	1892	2.52	0	.00	403	.93	899	3.53	0	.00
3	16Q2	*	1288	3.69	137	.74	399	2.96	699	3.27	425	2.41
4	300B1		1095	1.00	0	.00	0	.00	0	.00	0	.00
5	485	*	1019	3.00	0	.00	6	.22	0	.00	0	.00
6	34F2	*	786	2.64	226	2.07	111	1.04	180	.65	12	.08
7	47N7	*	731	1.84	9	.15	32	.29	46	.22	11	.04
8	11A50	*	694	4.56	261	1.45	467	4.56	266	1.22	100	.92
9	4C71		692	1.28	525	1.57	0	.00	577	1.44	285	1.15
10	22E6	*	659	3.23	109	1.52	602	3.78	66	.49	90	1.36
11	4A1		651	1.50	352	1.33	8	.05	133	.83	8	.09
12	11W76	*	615	5.43	67	.69	965	2.89	243	1.48	18	.10
13	303Q2		596	1.68	434	2.24	0	.00	12	.16	127	.49
14	29W1	*	594	3.01	620	1.65	6	.05	44	.13	5	.04
15	27K1	*	593	2.94	133	.71	435	2.35	89	.53	623	2.38
16	22E4	*	591	3.82	271	2.03	190	.88	21	.10	64	.53
17	14R53		589	1.00	910	1.50	0	.00	0	.00	0	.00
18	16Q7	*	558	2.61	219	1.69	204	2.26	294	1.68	363	3.24
19	27K3	*	558	5.24	491	3.12	795	5.23	534	3.02	115	.92
20	24L3		552	1.07	77	.23	90	1.00	6	.02	0	.00
21	12S5	*	550	3.64	582	3.28	471	1.92	246	2.05	72	.52
22	11H12	*	534	2.78	9	.09	13	.08	74	.67	7	.08
23	24L2		530	1.01	97	.85	157	1.45	103	.45	5	.05
24	26F1	*	526	4.31	436	2.17	93	.27	16	.77	18	.09
25	1401		525	1.02	0	.00	30	1.17	318	2.00	1	.00
26	15U1	*	524	3.20	1008	2.87	40	.26	33	.06	227	.95
27	4L09	*	509	1.36	199	1.92	236	1.20	396	1.29	204	1.41
28	9S14	*	505	2.25	7	.11	82	1.96	31	.34	23	.38
29	14W5	*	497	3.41	35	.16	111	1.82	40	.18	301	2.14
30	4L06	*	470	2.58	284	4.24	785	3.13	720	3.97	451	1.29
31	27K5	*	464	4.40	759	3.40	1067	4.26	232	.97	127	.99
32	34F3	*	460	2.04	86	1.02	160	1.91	1	.01	39	.33
33	2904		455	.40	292	1.02	628	1.07	611	1.57	29	1.00
34	24K2	*	452	3.36	41	.45	216	1.52	189	1.09	97	.72
35	4H03	*	389	4.53	71	.68	3	.02	171	2.01	221	2.05
36	11B2	*	354	3.27	135	.98	277	1.27	104	.98	80	.98
37	11B1	*	322	4.42	147	1.92	175	1.81	73	.71	38	.41
38	36M2	*	297	2.92	49	.37	113	.82	53	.57	111	.70
39	4C3		271	5.23	85	1.05	467	2.08	13	.15	36	1.00
40	11B61		269	4.19	341	2.28	185	2.16	161	.88	127	1.86
41	1B07		238	4.33	89	1.20	58	1.10	105	1.05	12	.20
42	20Y1		230	3.11	89	.84	124	.67	50	.52	143	1.58
43	21J4		197	2.23	255	3.03	227	1.38	355	1.38	382	1.29
44	17Q1		148	3.11	373	3.07	219	2.18	89	1.97	93	1.21
45	17Q2		146	3.08	365	3.05	273	2.54	121	2.08	68	.98
46	11B63		120	3.00	0	.00	0	.00	0	.00	0	.00

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***** END OF REPORT *****
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NOTES:-CC = CORRESPONDING CIRCUIT
-IF CC = * THE CIRCUIT WAS TAKEN FROM BOTH THE SAIDI AND SAIFI 100 WORST CIRCUIT LISTS

RANK	CIRCUIT	CC	2008 SAIDI (MINUTES)	2008 SAIFI	2007 SAIDI (MINUTES)	2007 SAIFI	2006 SAIDI (MINUTES)	2006 SAIFI	2005 SAIDI (MINUTES)	2005 SAIFI	2004 SAIDI (MINUTES)	2004 SAIFI
1	11W76	*	615	5.43	67	.69	965	2.89	243	1.48	18	.10
2	27K3	*	558	5.24	491	3.12	795	5.23	534	3.02	115	.92
3	4C3		271	5.23	85	1.05	467	2.08	13	.15	36	1.00
4	11A50	*	694	4.56	261	1.45	467	4.56	266	1.22	100	.92
5	4H03	*	389	4.53	71	.68	3	.02	171	2.01	221	2.05
6	11B1	*	322	4.42	147	1.92	175	1.81	73	.71	38	.41
7	27K5	*	464	4.40	759	3.40	1067	4.26	232	.97	127	.99
8	1B07		238	4.33	89	1.20	58	1.10	105	1.05	12	.20
9	26F1	*	526	4.31	436	2.17	93	.27	16	.77	18	.09
10	11B61		269	4.19	341	2.28	185	2.16	161	.88	127	1.86
11	22E4	*	591	3.82	271	2.03	190	.88	21	.10	64	.53
12	16Q2	*	1288	3.69	137	.74	399	2.96	699	3.27	425	2.41
13	12S5	*	550	3.64	582	3.28	471	1.92	246	2.05	72	.52
14	14W5	*	497	3.41	35	.16	111	1.82	40	.18	301	2.14
15	24K2	*	452	3.36	41	.45	216	1.52	189	1.09	97	.72
16	11B2	*	354	3.27	135	.98	277	1.27	104	.98	80	.98
17	22E6	*	659	3.23	109	1.52	602	3.78	66	.49	90	1.36
18	15U1	*	524	3.20	1008	2.87	40	.26	33	.06	227	.95
19	17Q1		148	3.11	373	3.07	219	2.18	89	1.97	93	1.21
20	20Y1		230	3.11	89	.84	124	.67	50	.52	143	1.58
21	17Q2		146	3.08	365	3.05	273	2.54	121	2.08	68	.98
22	29W1	*	594	3.01	620	1.65	6	.05	44	.13	5	.04
23	11B63		120	3.00	0	.00	0	.00	0	.00	0	.00
24	485	*	1019	3.00	0	.00	6	.22	0	.00	0	.00
25	27K1	*	593	2.94	133	.71	435	2.35	89	.53	623	2.38
26	36M2	*	297	2.92	49	.37	113	.82	53	.57	111	.70
27	11H12	*	534	2.78	9	.09	13	.08	74	.67	7	.08
28	34F2	*	786	2.64	226	2.07	111	1.04	180	.65	12	.08
29	16Q7	*	558	2.61	219	1.69	204	2.26	294	1.68	363	3.24
30	4L06	*	470	2.58	284	4.24	785	3.13	720	3.97	451	1.29
31	2306	*	1892	2.52	0	.00	403	.93	899	3.53	0	.00
32	9S14	*	505	2.25	7	.11	82	1.96	31	.34	23	.38
33	21J4		197	2.23	255	3.03	227	1.38	355	1.38	382	1.29
34	34F3	*	460	2.04	86	1.02	160	1.91	1	.01	39	.33
35	47N7	*	731	1.84	9	.15	32	.29	46	.22	11	.04
36	303Q2		596	1.68	434	2.24	0	.00	12	.16	127	.49
37	4A1		651	1.50	352	1.33	8	.05	133	.83	8	.09
38	4L09	*	509	1.36	199	1.92	236	1.20	396	1.29	204	1.41
39	4C71		692	1.28	525	1.57	0	.00	577	1.44	285	1.15
40	24L3		552	1.07	77	.23	90	1.00	6	.02	0	.00
41	1401		525	1.02	0	.00	30	1.17	318	2.00	1	.00
42	24L2		530	1.01	97	.85	157	1.45	103	.45	5	.05
43	14R31		4034	1.00	0	.00	0	.00	98	.85	46	.13
44	14R53		589	1.00	910	1.50	0	.00	0	.00	0	.00
45	300B1		1095	1.00	0	.00	0	.00	0	.00	0	.00
46	2904		455	.40	292	1.02	628	1.07	611	1.57	29	1.00

****
***** END OF REPORT *****
****

NOTES:-CC = CORRESPONDING CIRCUIT
-IF CC = * THE CIRCUIT WAS TAKEN FROM BOTH THE SAIDI AND SAIFI 100 WORST CIRCUIT LISTS

```
*************************************************************
***                                                       ****
***  REPORT NUMBER: APPENDIX 13                           ****
***                                                       ****
***    REPORT NAME: SAIDI/SAIFI WORST 4% OF ALL CIRCUITS  ****
***                                                       ****
***       CRITERIA: DURATION GREATER THAN 5 MINUTES       ****
***                                                       ****
***                 CUSTOMER COUNT GREATER THAN 0         ****
***                                                       ****
***                 'MAJOR STORM' INTERRUPTIONS           ****
***                                                       ****
*************************************************************
```

MAJOR STORM

RANK	CIRCUIT	CC	2008 SAIDI (MINUTES)	2008 SAIFI	2007 SAIDI (MINUTES)	2007 SAIFI	2006 SAIDI (MINUTES)	2006 SAIFI	2005 SAIDI (MINUTES)	2005 SAIFI	2004 SAIDI (MINUTES)	2004 SAIFI
1	14R31		1957	1.00	0	.00	0	.00	0	.00	0	.00
2	4L06	*	1621	2.85	209	.21	714	1.86	134	.60	49	.12
3	21J4		1488	3.04	52	.08	343	.50	50	.20	62	.17
4	4L09	*	1358	2.61	44	.31	598	.80	142	.69	82	.27
5	27K3	*	973	2.45	0	.00	5878	4.95	1709	1.43	22	.11
6	22E6	*	684	1.53	0	.00	3469	2.99	74	.35	0	.00
7	1B07		621	1.71	0	.00	10	.02	0	.00	11	.01
8	26F1	*	612	1.29	42	.28	189	1.22	6	.04	38	.08
9	22E4	*	598	1.68	0	.00	4463	3.65	12	.18	15	.09
10	36M2	*	405	2.15	139	.81	242	1.58	83	.24	18	.07
11	29W1	*	350	.19	2	.08	101	.22	21	.05	27	.04
12	20Y1		222	.99	203	.29	554	1.02	283	.95	116	.36
13	16Q7	*	202	.34	0	.00	2164	2.75	205	.83	94	.53
14	4C71		161	1.00	0	.00	157	.77	0	.00	0	.00
15	11B2	*	155	.53	249	.65	42	.13	14	.04	17	.06
16	4H03	*	144	1.05	153	1.00	830	1.47	119	.52	183	.46
17	11B1	*	132	.42	50	.14	211	.83	207	1.24	29	.20
18	11B61		128	.39	99	.56	123	.39	293	.73	47	.11
19	27K1	*	124	.60	3	.02	8359	4.88	178	.68	5	.03
20	27K5	*	107	.61	0	.00	6237	4.10	600	2.00	165	.57
21	11A50	*	102	.26	1040	.75	124	.28	306	.93	72	.26
22	16Q2	*	97	.35	1	.02	4851	5.43	213	.52	7	.01
23	9S14	*	87	.11	0	.00	179	.13	4	.00	0	.00
24	12S5	*	85	.29	335	.42	431	.73	129	.35	6	.03
25	24L2		77	.16	0	.00	885	2.51	0	.00	1	.00
26	1401		54	.36	1	.00	0	.00	286	1.00	0	.00
27	11W76	*	51	.13	0	.00	0	.00	0	.00	0	.00
28	47N7	*	48	.31	106	.39	489	1.07	52	.09	25	.04
29	14W5	*	47	.14	15	.06	325	1.46	40	.08	10	.06
30	24K2	*	44	.12	318	.39	254	.64	76	.22	10	.03
31	15U1	*	33	.06	5	.08	120	.30	411	.99	26	.08
32	4C3		27	.03	14	.15	11	.00	3	.00	135	1.00
33	34F2	*	16	.10	0	.00	99	.34	213	1.57	400	1.77
34	24L3		3	.01	97	.76	1215	2.97	54	.20	5	.05
35	11H12	*	2	.01	0	.00	18	.05	0	.00	0	.00
36	17Q1		0	.00	39	1.01	3	.00	0	.00	59	1.25
37	17Q2		0	.00	34	1.00	6	.00	66	.17	27	1.00
38	2306	*	0	.00	0	.00	1	.00	1027	.95	0	.00
39	2904		0	.00	0	.00	234	1.59	11	.08	83	.34
40	303Q2		0	.00	0	.00	0	.00	157	.17	0	.00
41	34F3	*	0	.00	1	.00	13	.03	181	1.24	280	1.22
42	4A1		0	.00	0	.00	4	.02	0	.00	773	1.40
43	485	*	0	.00	0	.00	388	1.22	0	.00	0	.00

****
***** END OF REPORT *****
****

NOTES:-CC = CORRESPONDING CIRCUIT
-IF CC = * THE CIRCUIT WAS TAKEN FROM BOTH THE SAIDI AND SAIFI 100 WORST CIRCUIT LISTS

SECTION V.

CONNECTICUT LIGHT AND POWER COMPANY
SAIDI/SAIFI 4-PCT WORST CIRCUIT LIST
FIVE YEAR TOTAL
RANKED BY SAIFI VALUE

DPUC DOCKET NO. 86-12-03
DATA REQUEST DPUC-ORDER APPENDIX 13

MAJOR STORM

RANK	CIRCUIT	CC	2008 SAIDI (MINUTES)	2008 SAIFI	2007 SAIDI (MINUTES)	2007 SAIFI	2006 SAIDI (MINUTES)	2006 SAIFI	2005 SAIDI (MINUTES)	2005 SAIFI	2004 SAIDI (MINUTES)	2004 SAIFI
1	21J4		1488	3.04	52	.08	343	.50	50	.20	62	.17
2	4L06	*	1621	2.85	209	.21	714	1.86	134	.60	49	.12
3	4L09	*	1358	2.61	44	.31	598	.80	142	.69	82	.27
4	27K3	*	973	2.45	0	.00	5878	4.95	1709	1.43	22	.11
5	36M2	*	405	2.15	139	.81	242	1.58	83	.24	18	.07
6	1B07		621	1.71	0	.00	10	.02	0	.00	11	.01
7	22E4	*	598	1.68	0	.00	4463	3.65	12	.18	15	.09
8	22E6	*	684	1.53	0	.00	3469	2.99	74	.35	0	.00
9	26F1	*	612	1.29	42	.28	189	1.22	6	.04	38	.08
10	4H03	*	144	1.05	153	1.00	830	1.47	119	.52	183	.46
11	14R31		1957	1.00	0	.00	0	.00	0	.00	0	.00
12	4C71		161	1.00	0	.00	157	.77	0	.00	0	.00
13	20Y1		222	.99	203	.29	554	1.02	283	.95	116	.36
14	27K5	*	107	.61	0	.00	6237	4.10	600	2.00	165	.57
15	27K1	*	124	.60	3	.02	8359	4.88	178	.68	5	.03
16	11B2	*	155	.53	249	.65	42	.13	14	.04	17	.06
17	11B1	*	132	.42	50	.14	211	.83	207	1.24	29	.20
18	11B61		128	.39	99	.56	123	.39	293	.73	47	.11
19	1401		54	.36	1	.00	0	.00	286	1.00	0	.00
20	16Q2	*	97	.35	1	.02	4851	5.43	213	.52	7	.01
21	16Q7	*	202	.34	0	.00	2164	2.75	205	.83	94	.53
22	47N7	*	48	.31	106	.39	489	1.07	52	.09	25	.04
23	12S5	*	85	.29	335	.42	431	.73	129	.35	6	.03
24	11A50	*	102	.26	1040	.75	124	.28	306	.93	72	.26
25	29W1	*	350	.19	2	.08	101	.22	21	.05	27	.04
26	24L2		77	.16	0	.00	885	2.51	0	.00	1	.00
27	14W5	*	47	.14	15	.06	325	1.46	40	.08	10	.06
28	11W76	*	51	.13	0	.00	0	.00	0	.00	0	.00
29	24K2	*	44	.12	318	.39	254	.64	76	.22	10	.03
30	9S14	*	87	.11	0	.00	179	.13	4	.00	0	.00
31	34F2	*	16	.10	0	.00	99	.34	213	1.57	400	1.77
32	15U1	*	33	.06	5	.08	120	.30	411	.99	26	.08
33	4C3		27	.03	14	.15	11	.00	3	.00	135	1.00
34	11H12	*	2	.01	0	.00	18	.05	0	.00	0	.00
35	24L3		3	.01	97	.76	1215	2.97	54	.20	5	.05
36	17Q1		0	.00	39	1.01	3	.00	0	.00	59	1.25
37	17Q2		0	.00	34	1.00	6	.00	66	.17	27	1.00
38	2306	*	0	.00	0	.00	1	.00	1027	.95	0	.00
39	2904		0	.00	0	.00	234	1.59	11	.08	83	.34
40	303Q2		0	.00	0	.00	0	.00	157	.17	0	.00
41	34F3	*	0	.00	1	.00	13	.03	181	1.24	280	1.22
42	4A1		0	.00	0	.00	4	.02	0	.00	773	1.40
43	485	*	0	.00	0	.00	388	1.22	0	.00	0	.00

****
***** END OF REPORT *****
****

NOTES:-CC = CORRESPONDING CIRCUIT
-IF CC = * THE CIRCUIT WAS TAKEN FROM BOTH THE SAIDI AND SAIFI 100 WORST CIRCUIT LISTS

```
*************************************************************
***                                                       ****
***  REPORT NUMBER: APPENDIX 13                           ****
***                                                       ****
***    REPORT NAME: SAIDI/SAIFI WORST 4% OF ALL CIRCUITS  ****
***                                                       ****
***       CRITERIA: DURATION GREATER THAN 5 MINUTES       ****
***                                                       ****
***                 CUSTOMER COUNT GREATER THAN 0         ****
***                                                       ****
***                 'FORCED' INTERRUPTIONS                ****
***                                                       ****
*************************************************************
```

SECTION V.

CONNECTICUT LIGHT AND POWER COMPANY
SAIDI/SAIFI 4-PCT WORST CIRCUIT LIST
FIVE YEAR TOTAL
RANKED BY SAIDI VALUE

DPUC DOCKET NO. 86-12-03
DATA REQUEST DPUC-ORDER APPENDIX 13

FORCED

RANK	CIRCUIT	C C	2008 SAIDI (MINUTES)	2008 SAIFI	2007 SAIDI (MINUTES)	2007 SAIFI	2006 SAIDI (MINUTES)	2006 SAIFI	2005 SAIDI (MINUTES)	2005 SAIFI	2004 SAIDI (MINUTES)	2004 SAIFI
1	485	*	10	1.00	97	1.00	153	1.11	0	.00	0	.00
2	4L06	*	9	1.01	0	.00	0	.00	0	.00	0	.00
3	4L09	*	9	1.00	0	.00	0	.00	0	.00	0	.00

****
***** END OF REPORT *****
****

NOTES:-CC = CORRESPONDING CIRCUIT
-IF CC = * THE CIRCUIT WAS TAKEN FROM BOTH THE SAIDI AND SAIFI 100 WORST CIRCUIT LISTS

FORCED

RANK	CIRCUIT	CC	2008 SAIDI (MINUTES)	2008 SAIFI	2007 SAIDI (MINUTES)	2007 SAIFI	2006 SAIDI (MINUTES)	2006 SAIFI	2005 SAIDI (MINUTES)	2005 SAIFI	2004 SAIDI (MINUTES)	2004 SAIFI
1	4L06	*	9	1.01	0	.00	0	.00	0	.00	0	.00
2	4L09	*	9	1.00	0	.00	0	.00	0	.00	0	.00
3	485	*	10	1.00	97	1.00	153	1.11	0	.00	0	.00

****
***** END OF REPORT *****
****

NOTES:-CC = CORRESPONDING CIRCUIT
-IF CC = * THE CIRCUIT WAS TAKEN FROM BOTH THE SAIDI AND SAIFI 100 WORST CIRCUIT LISTS

```
************************************************************
***                                                      ****
***  REPORT NUMBER: APPENDIX 13                          ****
***                                                      ****
***    REPORT NAME: SAIDI/SAIFI WORST 4% OF ALL CIRCUITS ****
***                                                      ****
***       CRITERIA: DURATION GREATER THAN 5 MINUTES      ****
***                                                      ****
***                 CUSTOMER COUNT GREATER THAN 0        ****
***                                                      ****
***                 'SCHEDULED' INTERRUPTIONS            ****
***                                                      ****
************************************************************
```

SCHEDULED

RANK	CIRCUIT	CC	2008 SAIDI (MINUTES)	2008 SAIFI	2007 SAIDI (MINUTES)	2007 SAIFI	2006 SAIDI (MINUTES)	2006 SAIFI	2005 SAIDI (MINUTES)	2005 SAIFI	2004 SAIDI (MINUTES)	2004 SAIFI
1	4C71		414	.57	0	.00	0	.00	0	.00	0	.00
2	2306	*	148	.60	0	.00	358	1.43	0	.00	0	.00
3	2904		26	.20	0	.00	0	.00	14	.12	0	.00
4	27K3	*	25	.06	0	.00	0	.00	0	.00	0	.00
5	4C3		18	1.01	0	.00	0	.00	0	.00	0	.00
6	11A50	*	2	.01	59	.60	0	.00	0	.00	0	.00
7	16Q7	*	1	.02	0	.00	46	.25	0	.00	13	.15
8	11H12	*	0	.00	0	.00	52	.98	0	.00	0	.00
9	11W76	*	0	.00	0	.00	0	.00	6	.02	0	.00
10	21J4		0	.00	9	.05	0	.00	0	.00	0	.00
11	26F1	*	0	.00	0	.00	0	.00	1	.03	0	.00
12	27K1	*	0	.00	0	.00	1	.10	0	.00	199	.70
13	34F2	*	0	.00	0	.00	14	.91	0	.00	0	.00
14	34F3	*	0	.00	0	.00	13	.83	0	.00	0	.00
15	36M2	*	0	.01	0	.00	0	.00	0	.00	0	.00
16	4H03	*	0	.00	0	.00	0	.00	26	.46	0	.00
17	4L06	*	0	.00	0	.00	0	.00	0	.00	6	.00
18	9S14	*	0	.00	0	.00	0	.00	0	.00	5	.03

****
***** END OF REPORT *****
****

NOTES:-CC = CORRESPONDING CIRCUIT
-IF CC = * THE CIRCUIT WAS TAKEN FROM BOTH THE SAIDI AND SAIFI 100 WORST CIRCUIT LISTS

SECTION V.

CONNECTICUT LIGHT AND POWER COMPANY
SAIDI/SAIFI 4-PCT WORST CIRCUIT LIST
FIVE YEAR TOTAL
RANKED BY SAIFI VALUE

DPUC DOCKET NO. 86-12-03
DATA REQUEST DPUC-ORDER APPENDIX 13

SCHEDULED

RANK	CIRCUIT	CC	2008 SAIDI (MINUTES)	2008 SAIFI	2007 SAIDI (MINUTES)	2007 SAIFI	2006 SAIDI (MINUTES)	2006 SAIFI	2005 SAIDI (MINUTES)	2005 SAIFI	2004 SAIDI (MINUTES)	2004 SAIFI
1	4C3		18	1.01	0	.00	0	.00	0	.00	0	.00
2	2306	*	148	.60	0	.00	358	1.43	0	.00	0	.00
3	4C71		414	.57	0	.00	0	.00	0	.00	0	.00
4	2904		26	.20	0	.00	0	.00	14	.12	0	.00
5	27K3	*	25	.06	0	.00	0	.00	0	.00	0	.00
6	16Q7	*	1	.02	0	.00	46	.25	0	.00	13	.15
7	11A50	*	2	.01	59	.60	0	.00	0	.00	0	.00
8	36M2	*	0	.01	0	.00	0	.00	0	.00	0	.00
9	11H12	*	0	.00	0	.00	52	.98	0	.00	0	.00
10	11W76	*	0	.00	0	.00	0	.00	6	.02	0	.00
11	21J4		0	.00	9	.05	0	.00	0	.00	0	.00
12	26F1	*	0	.00	0	.00	0	.00	1	.03	0	.00
13	27K1	*	0	.00	0	.00	1	.10	0	.00	199	.70
14	34F2	*	0	.00	0	.00	14	.91	0	.00	0	.00
15	34F3	*	0	.00	0	.00	13	.83	0	.00	0	.00
16	4H03	*	0	.00	0	.00	0	.00	26	.46	0	.00
17	4L06	*	0	.00	0	.00	0	.00	0	.00	6	.00
18	9S14	*	0	.00	0	.00	0	.00	0	.00	5	.03

****
***** END OF REPORT *****
****

NOTES:-CC = CORRESPONDING CIRCUIT
-IF CC = * THE CIRCUIT WAS TAKEN FROM BOTH THE SAIDI AND SAIFI 100 WORST CIRCUIT LISTS

```
*************************************************************
***                                                       ****
***  REPORT NUMBER: APPENDIX 13                           ****
***                                                       ****
***    REPORT NAME: SAIDI/SAIFI WORST 4% OF ALL CIRCUITS  ****
***                                                       ****
***       CRITERIA: DURATION GREATER THAN 5 MINUTES       ****
***                                                       ****
***                 CUSTOMER COUNT GREATER THAN 0         ****
***                                                       ****
***                 'CUSTOMER CAUSED' INTERRUPTIONS       ****
***                                                       ****
*************************************************************
```

SECTION V.

CONNECTICUT LIGHT AND POWER COMPANY
SAIDI/SAIFI 4-PCT WORST CIRCUIT LIST
FIVE YEAR TOTAL
RANKED BY SAIDI VALUE

DPUC DOCKET NO. 86-12-03
DATA REQUEST DPUC-ORDER APPENDIX 13

CUSTOMER CAUSED

RANK	CIRCUIT	C C	2008 SAIDI (MINUTES)	2008 SAIFI	2007 SAIDI (MINUTES)	2007 SAIFI	2006 SAIDI (MINUTES)	2006 SAIFI	2005 SAIDI (MINUTES)	2005 SAIFI	2004 SAIDI (MINUTES)	2004 SAIFI
1	4L09	*	18	.02	0	.00	0	.00	0	.00	0	.00
2	11B61		1	.00	0	.00	0	.00	0	.00	0	.00
3	12S5	*	1	.01	0	.00	1	.01	0	.00	0	.00
4	1B07		0	.01	0	.00	0	.00	0	.00	0	.00

****
***** END OF REPORT *****
****

NOTES:-CC = CORRESPONDING CIRCUIT
-IF CC = * THE CIRCUIT WAS TAKEN FROM BOTH THE SAIDI AND SAIFI 100 WORST CIRCUIT LISTS

CUSTOMER CAUSED

RANK	CIRCUIT	CC	2008 SAIDI (MINUTES)	2008 SAIFI	2007 SAIDI (MINUTES)	2007 SAIFI	2006 SAIDI (MINUTES)	2006 SAIFI	2005 SAIDI (MINUTES)	2005 SAIFI	2004 SAIDI (MINUTES)	2004 SAIFI
1	4L09	*	18	.02	0	.00	0	.00	0	.00	0	.00
2	1B07		0	.01	0	.00	0	.00	0	.00	0	.00
3	12S5	*	1	.01	0	.00	1	.01	0	.00	0	.00
4	11B61		1	.00	0	.00	0	.00	0	.00	0	.00

****
***** END OF REPORT *****
****

NOTES:-CC = CORRESPONDING CIRCUIT
-IF CC = * THE CIRCUIT WAS TAKEN FROM BOTH THE SAIDI AND SAIFI 100 WORST CIRCUIT LISTS

REPORT NUMBER: APPENDIX 13

REPORT NAME: SAIDI/SAIFI WORST 4% OF ALL CIRCUITS

CRITERIA: DURATION GREATER THAN 5 MINUTES

CUSTOMER COUNT GREATER THAN 0

TOTAL OF ALL INTERRUPTIONS

RANK	CIRCUIT	CC	2008 SAIDI (MINUTES)	2008 SAIFI	2007 SAIDI (MINUTES)	2007 SAIFI	2006 SAIDI (MINUTES)	2006 SAIFI	2005 SAIDI (MINUTES)	2005 SAIFI	2004 SAIDI (MINUTES)	2004 SAIFI
1	14R31		5991	2.00	0	.00	0	.00	99	.85	47	.13
2	4L06	*	2102	6.44	493	4.45	1502	4.99	854	4.57	507	1.41
3	2306	*	2040	3.12	0	.00	764	2.36	1927	4.48	1	.00
4	4L09	*	1896	4.99	245	2.23	834	2.00	538	1.98	286	1.68
5	21J4		1687	5.27	316	3.16	571	1.88	406	1.58	444	1.46
6	27K3	*	1559	7.75	492	3.12	6675	10.18	2245	4.45	137	1.03
7	16Q2	*	1387	4.04	138	.76	5252	8.39	913	3.79	432	2.42
8	22E6	*	1343	4.76	110	1.52	4072	6.77	141	.84	92	1.36
9	4C71		1269	2.85	526	1.57	158	.77	578	1.44	286	1.15
10	22E4	*	1190	5.50	272	2.03	4654	4.53	34	.28	80	.62
11	26F1	*	1140	5.60	480	2.45	283	1.49	24	.84	57	.17
12	300B1		1095	1.00	0	.00	0	.00	0	.00	0	.00
13	485	*	1029	4.00	97	1.00	547	2.55	0	.00	0	.00
14	29W1	*	945	3.20	622	1.73	108	.27	66	.18	33	.08
15	1B07		862	6.05	89	1.20	69	1.12	105	1.05	133	1.21
16	34F2	*	803	2.74	226	2.07	225	2.29	394	2.22	413	1.85
17	11A50	*	800	4.83	1468	4.69	592	4.84	574	2.15	173	1.18
18	47N7	*	781	2.15	117	.54	523	1.36	98	.31	37	.08
19	16Q7	*	764	2.97	220	1.69	2416	5.26	501	2.51	472	3.92
20	27K1	*	718	3.54	138	.73	8795	7.33	268	1.21	828	3.11
21	36M2	*	703	5.08	189	1.18	357	2.40	137	.81	131	.77
22	11W76	*	667	5.56	67	.69	966	2.89	250	1.50	19	.10
23	4A1		651	1.50	353	1.33	13	.07	134	.83	783	1.49
24	12S5	*	638	3.94	918	3.70	904	2.66	376	2.40	80	.55
25	24L2		609	1.17	98	.85	1043	3.96	104	.45	8	.05
26	303Q2		597	1.68	435	2.24	0	.00	171	.33	127	.49
27	9S14	*	593	2.36	8	.11	262	2.09	36	.34	29	.41
28	14R53		589	1.00	910	1.50	0	.00	0	.00	0	.00
29	1401		580	1.38	1	.00	31	1.17	604	3.00	1	.00
30	27K5	*	571	5.01	759	3.40	7305	8.36	834	2.97	293	1.56
31	15U1	*	559	3.26	1014	2.95	161	.56	446	1.05	255	1.03
32	24L3		555	1.08	175	.99	1305	3.97	61	.22	6	.05
33	14W5	*	544	3.55	50	.22	437	3.28	80	.26	311	2.20
34	11H12	*	537	2.79	10	.09	83	1.11	74	.67	7	.08
35	4H03	*	533	5.58	225	1.68	834	1.49	316	2.99	406	2.51
36	11B2	*	510	3.80	385	1.63	320	1.40	118	1.02	98	1.04
37	24K2	*	496	3.48	359	.84	471	2.16	267	1.31	108	.75
38	2904		481	.60	292	1.02	863	2.66	636	1.77	113	1.34
39	34F3	*	461	2.04	88	1.02	187	2.77	184	1.25	321	1.55
40	11B1	*	454	4.84	199	2.06	388	2.64	282	1.95	67	.61
41	20Y1		452	4.10	292	1.13	679	1.69	334	1.47	260	1.94
42	11B61		400	4.58	441	2.84	309	2.55	455	1.61	176	1.97
43	4C3		317	6.27	99	1.20	479	2.08	16	.15	171	2.00
44	17Q1		148	3.11	412	4.08	224	2.18	89	1.97	153	2.46
45	17Q2		146	3.08	399	4.05	279	2.54	188	2.25	95	1.98
46	11B63		120	3.00	0	.00	0	.00	0	.00	0	.00

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***** END OF REPORT *****
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NOTES:-CC = CORRESPONDING CIRCUIT
-IF CC = * THE CIRCUIT WAS TAKEN FROM BOTH THE SAIDI AND SAIFI 100 WORST CIRCUIT LISTS

SECTION V.

CONNECTICUT LIGHT AND POWER COMPANY
SAIDI/SAIFI 4-PCT WORST CIRCUIT LIST
FIVE YEAR TOTAL
RANKED BY SAIFI VALUE

DPUC DOCKET NO. 86-12-03
DATA REQUEST DPUC-ORDER APPENDIX 13

TOTAL

RANK	CIRCUIT	CC	2008 SAIDI (MINUTES)	2008 SAIFI	2007 SAIDI (MINUTES)	2007 SAIFI	2006 SAIDI (MINUTES)	2006 SAIFI	2005 SAIDI (MINUTES)	2005 SAIFI	2004 SAIDI (MINUTES)	2004 SAIFI
1	27K3	*	1559	7.75	492	3.12	6675	10.18	2245	4.45	137	1.03
2	4L06	*	2102	6.44	493	4.45	1502	4.99	854	4.57	507	1.41
3	4C3		317	6.27	99	1.20	479	2.08	16	.15	171	2.00
4	1B07		862	6.05	89	1.20	69	1.12	105	1.05	133	1.21
5	26F1	*	1140	5.60	480	2.45	283	1.49	24	.84	57	.17
6	4H03	*	533	5.58	225	1.68	834	1.49	316	2.99	406	2.51
7	11W76	*	667	5.56	67	.69	966	2.89	250	1.50	19	.10
8	22E4	*	1190	5.50	272	2.03	4654	4.53	34	.28	80	.62
9	21J4		1687	5.27	316	3.16	571	1.88	406	1.58	444	1.46
10	36M2	*	703	5.08	189	1.18	357	2.40	137	.81	131	.77
11	27K5	*	571	5.01	759	3.40	7305	8.36	834	2.97	293	1.56
12	4L09	*	1896	4.99	245	2.23	834	2.00	538	1.98	286	1.68
13	11B1	*	454	4.84	199	2.06	388	2.64	282	1.95	67	.61
14	11A50	*	800	4.83	1468	4.69	592	4.84	574	2.15	173	1.18
15	22E6	*	1343	4.76	110	1.52	4072	6.77	141	.84	92	1.36
16	11B61		400	4.58	441	2.84	309	2.55	455	1.61	176	1.97
17	20Y1		452	4.10	292	1.13	679	1.69	334	1.47	260	1.94
18	16Q2	*	1387	4.04	138	.76	5252	8.39	913	3.79	432	2.42
19	485	*	1029	4.00	97	1.00	547	2.55	0	.00	0	.00
20	12S5	*	638	3.94	918	3.70	904	2.66	376	2.40	80	.55
21	11B2	*	510	3.80	385	1.63	320	1.40	118	1.02	98	1.04
22	14W5	*	544	3.55	50	.22	437	3.28	80	.26	311	2.20
23	27K1	*	718	3.54	138	.73	8795	7.33	268	1.21	828	3.11
24	24K2	*	496	3.48	359	.84	471	2.16	267	1.31	108	.75
25	15U1	*	559	3.26	1014	2.95	161	.56	446	1.05	255	1.03
26	29W1	*	945	3.20	622	1.73	108	.27	66	.18	33	.08
27	2306	*	2040	3.12	0	.00	764	2.36	1927	4.48	1	.00
28	17Q1		148	3.11	412	4.08	224	2.18	89	1.97	153	2.46
29	17Q2		146	3.08	399	4.05	279	2.54	188	2.25	95	1.98
30	11B63		120	3.00	0	.00	0	.00	0	.00	0	.00
31	16Q7	*	764	2.97	220	1.69	2416	5.26	501	2.51	472	3.92
32	4C71		1269	2.85	526	1.57	158	.77	578	1.44	286	1.15
33	11H12	*	537	2.79	10	.09	83	1.11	74	.67	7	.08
34	34F2	*	803	2.74	226	2.07	225	2.29	394	2.22	413	1.85
35	9S14	*	593	2.36	8	.11	262	2.09	36	.34	29	.41
36	47N7	*	781	2.15	117	.54	523	1.36	98	.31	37	.08
37	34F3	*	461	2.04	88	1.02	187	2.77	184	1.25	321	1.55
38	14R31		5991	2.00	0	.00	0	.00	99	.85	47	.13
39	303Q2		597	1.68	435	2.24	0	.00	171	.33	127	.49
40	4A1		651	1.50	353	1.33	13	.07	134	.83	783	1.49
41	1401		580	1.38	1	.00	31	1.17	604	3.00	1	.00
42	24L2		609	1.17	98	.85	1043	3.96	104	.45	8	.05
43	24L3		555	1.08	175	.99	1305	3.97	61	.22	6	.05
44	14R53		589	1.00	910	1.50	0	.00	0	.00	0	.00
45	300B1		1095	1.00	0	.00	0	.00	0	.00	0	.00
46	2904		481	.60	292	1.02	863	2.66	636	1.77	113	1.34

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***** END OF REPORT *****
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NOTES:-CC = CORRESPONDING CIRCUIT
-IF CC = * THE CIRCUIT WAS TAKEN FROM BOTH THE SAIDI AND SAIFI 100 WORST CIRCUIT LISTS

REPORT NUMBER: APPENDIX 13

REPORT NAME: #CUSTS WITH THREE OR MORE INTERRUPTS

CRITERIA: DURATION GREATER THAN 5 MINUTES

ALL MAJOR STORMS EXCLUDED

CUSTOMER COUNT GREATER THAN 1

TRANSFORMER FAILURES EXCLUDED

SECONDARY OUTAGES EXCLUDED

SECTION V.

CONNECTICUT LIGHT AND POWER COMPANY
4-PCT WORST CIRCUIT LIST - 2008
#CUSTS WITH 3 OR MORE INTERRUPTS
FIVE YEAR TOTAL

DPUC DOCKET NO. 86-12-03
DATA REQUEST DPUC-ORDER APPENDIX 13
PAGE: 1

CIRCUIT	2008 #CUSTS WITH 3 OR MORE INTERRUPTS	2007 #CUSTS WITH 3 OR MORE INTERRUPTS	2006 #CUSTS WITH 3 OR MORE INTERRUPTS	2005 #CUSTS WITH 3 OR MORE INTERRUPTS	2004 #CUSTS WITH 3 OR MORE INTERRUPTS
1B07	2265	17	101	0	40
11A50	1312	1774	1646	57	120
11B1	1877	389	328	255	1
11B2	977	68	264	56	91
11B61	1186	610	657	94	307
11B63	1	0	0	0	0
11H12	257	0	3	0	0
11W76	35	1	34	0	0
12S5	857	748	251	97	0
14R31	0	0	0	1	0
14W5	1848	1	295	0	774
15U1	526	402	0	0	8
16Q2	605	11	386	618	279
16Q7	292	266	267	286	425
17Q1	17	1210	124	0	0
17Q2	22	915	314	0	0
20Y1	1114	68	88	56	540
21J4	4	858	365	327	303
22E4	334	155	84	0	38
22E6	269	73	201	0	32
2306	0	0	1	452	0
24K2	42	87	243	119	28
24L2	0	3	71	0	0
24L3	21	0	0	0	0
26F1	1077	385	15	13	1
27K1	287	9	266	0	190
27K3	525	291	512	276	89
27K5	197	121	118	16	25
29W1	5	46	0	0	0
2904	0	1	3	1	0
303Q2	0	105	0	0	0
34F2	9	261	73	0	0
34F3	0	0	492	0	0
36M2	2344	72	158	11	16
4C3	475	0	21	0	0
4C71	3	0	0	0	2
4H03	89	141	0	0	77
4L06	1982	715	397	246	128
4L09	0	179	116	159	166
47N7	341	0	1	0	0
485	10	0	0	0	0
9S14	1106	0	1166	0	0

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***** END OF REPORT *****
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APPENDIX 14

Reliability Corrective Action Plans

2008 RSAM TOP 100 CIRCUIT LIST

Rank	Circuit	Action
1	26E8	Circuit will be studied in 2009.
2	11C13	Project #101989 completed in 2008. Tree Trimmed in 2008.
3	11A50	Project #101699 planned for completion in 2009. Plumtree 30G3 will be energized, which will absorb majority of 11A50. CFM Project #476771 planned for 2010.
4	27K3	Project #452205 was completed in 2006. Lateral SMT and Backbone ETT performed in 2007.
5	12N14	Project #476807 (Segments-4 & 5 Reconductor and feeder tie with Triangle S/S 11A) was completed 1/07. Backbone Rehab Segments-1, 2 & 3 will be part of future construction.
6	30Y8	Project #452224 completed in 2007. Lateral SMT and Maintenance Backbone ETT performed in 2008.
7	4L06	Project #452243 completed in 2008. Poor performance in 2008 primarily due to June '08 storm. Backbone and Lateral tree trimming performed in 2007.
8	12H16	Will study in 2009.
9	2306	Will study in 2009.
10	13K1	Project #452207 completed in 2006. Trimming complete as of 2-24-2009.
11	14N3	Poor performance in 2008 primarily due to June '08 storm. Sandy Brook Rd. & Prock Hill Rd. side taps were Lateral ETT in 2008.
12	11F13	Sectionalizing switches to be installed along backbone as part of 2008 PAR DR program. Babcock Hill Road reconductored with tree wire and installed cutouts under 2007 PAR DR program. Trimmed circuit in 2006. Lateral ETT planned for 2009. Will study circuit in 2009.
13	1C02	Project #103218 "Reliability Work Farmington Woods URD" completed in 2008. Project #103362 "The Highlands Area Reliability" completed in 2009. Hazard tree trimming locations along ROW identified and removed in 2008. Poles within R.O.W. inspected. New radial recloser 1C02-60R installed to reduce reliability exposure along five-mile R.O.W.
14	30R8	Reliability work completed in 2004. Circuit is scheduled for trimming in 2009. Numerous reliability improvements throughout the circuit are planned for completion in 2009.
15	5L04	Was studied in 2005. No cost-justifiable improvements identified. Lateral SMT and Maintenance Backbone ETT performed in 2008. Poor performance in 2008 primarily due to June '08 storm. Backbone and Lateral tree trimming performed in 2008.
16	31A6	Lateral SMT and Maintenance Backbone ETT performed in 2007.
17	12N16	Project # 476766A scheduled to start construction in 2010.
18	20Y2	Lateral SMT and Maintenance Backbone ETT performed in 2008. Will study circuit in 2009.
19	28M3	Lateral SMT and Maintenance Backbone ETT performed in 2008.
20	12F48	ROW trimming completed in 2008. No further plans to study in 2009.

2008 RSAM TOP 100 CIRCUIT LIST

Rank	Circuit	Action
21	12S5	Lateral SMT and Maintenance Backbone ETT performed in 2007. Circuit scheduled for trimming in 2009. Cooktown Road LAT ETT'ed in October 2008. Sectionalizing switches will be installed along the backbone in 2009 under the PAR DR program. Also, one set of three single-phase reclosers will be installed on Prodell Road and one single-phase recloser will be installed on Benjamin Road along with a sectionalizing fuse in 2009 under PAR DR program. Will study circuit in 2009.
22	15M1	Project #452227 completed in 2006. 15M1 scheduled for trimming in 2009. Several DR improvements done over the last several years in "troubled" areas.
23	27K4	Project #103405 planned to begin construction in 2009. Phase 2 to be completed in 2011. Lateral ETT scheduled for 2009.
24	31C1	Lateral SMT and Maintenance Backbone ETT performed in 2008. Additional trimming is scheduled for 2009.
25	4L08	Lateral SMT and Maintenance Backbone ETT performed in 2006. Lateral ETT scheduled for 2009. Poor performance in 2008 primarily due to June '08 storm. Taconic Rd. & Undermountain Rd side taps were Lateral ETT in 2008.
26	11F12	Sectionalizing switches will be installed along the backbone in 2009 under the PAR DR program. Tree trimming complete in 2007. Will study circuit in 2009.
27	14M9	Was studied in 2007. Project #452250 was tabled 11/7/07 due to high $/CMS. Lateral SMT and Maintenance Backbone ETT performed in 2008.
28	31A9	TDRP Project #452245 completed in 2007. Lateral SMT and Maintenance Backbone ETT performed in 2008.
29	119	Project #476853 proposes to replace three-phase fault interrupter with automatic PMH-9/12 switchgear, deferred to 2010.
30	22N6	Project # 476765 to be completed in 2010. Trimming scheduled for 2009.
31	23Q9	Project #103016 planned for 2010.
32	28A3	Project #476843 completed in 2008.
33	30Y9	Project #452264 scheduled for 2009.
34	12N19	Project #452274 planned for 2009.
35	11C14	Project #476871 completed in 2007. Circuit is scheduled for trimming in 2009. Studied in 2008.
36	16Q7	CFM Project #476826 completed in 2008.
37	21J4	Poor performance in 2008 primarily due to June '08 storm. Six side taps were Lateral ETT in 2008. Huntington Ridge Side Tap - 4 or more addressed in 2008.
38	27K5	Project #452205 completed in 2008. Lateral SMT and Backbone ETT performed in 2007.
39	37J1	Project #101517 planned for 2010. Lateral SMT and Maintenance Backbone ETT performed in 2007. Yelping Hill Rd. & Popple Swamp Rd. side taps were Lateral ETT in 2008. DR reconductoring scheduled for Yelping Hill Tap in 2009.
40	11F9	Project #101961 scheduled for 2009. Lateral SMT and Maintenance Backbone ETT performed in 2007. Will study circuit in 2009.
41	11Y1	Project #101742 completed in 2007.
42	12Y8	Project #476821 will be completed in 2010. Lateral ETT scheduled for 2009.

2008 RSAM TOP 100 CIRCUIT LIST

Rank	Circuit	Action
43	13B9	Will review in 2009 since last studied in 2004. Lateral SMT and Maintenance backbone ETT completed in 2008.
44	15D1	The four year history of this circuit shows that the interruptions are predominantly tree related. Spot trimming has been requested along Hoop Pole Rd, Lake Rd, and Durham Road.
45	22N1	Lateral SMT and Maintenance Backbone ETT performed in 2008. Additional trimming scheduled for 2009.
46	135	Project #476853 proposes to replace three-phase fault interrupter with automatic PMH-9/12 switchgear, deferred to 2010.
47	14W12	Project #103394 scheduled for 2009 construction.
48	15L68	Replaced failing compression splices under WR #828549 and #834627. Completed 02/07. Lateral ETT scheduled for 2009.
49	19U1	Project #487224 completed in 2008. Three backbone areas (Maple St, Bantam Lake Rd. & Bantam Rd.) were Lateral ETT Trimmed in 2008.
50	25H1	Planned elimination of circuit under Project #476740 in 2010. Lateral SMT and Maintenance Backbone ETT performed in 2007.
51	32R2	Project #452248 scheduled for 2009.
52	11R1	Project # 452216 scheduled for completion in 2009.
53	12Y15	Mid-cycle ETT performed in 2008. Lateral ETT scheduled for 2009. Majority of customer minutes in 2008 due to transmission outage on 5/27/2008; no further plans to study.
54	13B25	Project #452211 currently in Engineering phase.
55	16Q2	Project #452175 planned for 2009.
56	21H8	Project #101335 completed in 2008. Trimming scheduled for 2009. Will study in 2009.
57	30Y10	Project #452256 has work orders written and scheduled for 2009.
58	32P1	Lateral ETT done in 2007, circuit scheduled for trimming in 2009.
59	3A03	Project #476747 completed in 2004. Future new circuit 3A11 will reduce exposure (planned ISD 12/31/2009). Circuit maintenance tree trimming completed on this circuit in 2006.
60	11B61	Project #452207 was completed in 2007. Lateral ETT performed in 2008.
61	12J4	Studied in 2006. Circuit trimmed in 2006. Project #452241 completed in 2008. Will study circuit in 2009.
62	21J3	Project #452188 completed in 2008. Poor performance in 2008 primarily due to June '08 storm.
63	26E9	Project #101757 completed in 2008. Annual project #5D710207/5D710224 completed in 2008. Project #101377 to be completed in 2010. Lateral SMT and Maintenance Backbone ETT performed in 2008.
64	12J5	Had many "3-or-mores" in 2008 that were resolved with tree trimming and annual work orders. Will study circuit in 2009.
65	13B10	Will study in 2009.
66	13Y2	Circuit scheduled to be trimmed in 2009. Lateral ETT completed on Nepaug Rd. & Delay Rd. side taps in 2008.

2008 RSAM TOP 100 CIRCUIT LIST

Rank	Circuit	Action
67	21K8	Lateral SMT and Maintenance Backbone ETT performed in 2007. Additional trimming performed in 2008. DR improvements planned for 2009.
68	300F4	Will study in 2009.
69	4L09	Project #452223 completed in 2008. Lateral SMT and Maintenance Backbone ETT performed in 2008. Poor performance in 2008 primarily due to June '08 storm. River Rd. & White Hollow Rd. side taps were Lateral ETT in 2008.
70	21H9	Project #452197 scheduled for completion in 2009. Will study in 2009.
71	23K11	Majority of customer minutes occurring during the past four years were due to tree related interruptions during the January 2006 ice storm. Backbone Maintenance ETT performed in 2006. Load on this feeder was moved to new feeders originating at Sasco Creek 51R Substation.
72	4C12	Project #103088 completed in 2008.
73	4R08	Lateral SMT and Maintenance Backbone ETT performed in 2008. 600A switches added in 2008.
74	11M3	Scheduled for trimming in 2009.
75	21G3	Lateral SMT and Maintenance Backbone ETT performed on this circuit in 2008. Project #452173 was complete in 2003. Will pursue back-up source with Bozrah Light & Power for cost justifiable solution.
76	12Y9	Lateral SMT and Maintenance Backbone ETT performed in 2007.
77	22W2	Lateral SMT and Maintenance Backbone ETT performed in 2008.
78	2N17	Project #476792 planned for 2010. Lateral SMT and Maintenance Backbone ETT performed in 2008.
79	13K3	Project #103180 in-progress as of 2-24-09 with an in-service date of 6-1-09 will establish auto-loop with 32P3 out of Shunock 32P.
80	21K11	Circuit scheduled for 2009 trimming. 2008 performance impacted by transmission outage on 5/27/2008.
81	22D2	The 22D3 CFM involves the installation of a loop scheme with the 22D2 circuit and will be a benefit. A reconfiguration of the 22D4 and 22D2 reclosers is being studied as an added backup.
82	22N3	TDRP Project #452222 completed in 2007. Lateral SMT and Maintenance Backbone ETT performed in 2007.
83	22N5	Lateral SMT and Maintenance Backbone ETT performed in 2007.
84	22R5	TDRP Project #452254 scheduled for 2009.
85	26C1	The 26C1 circuit has been eliminated.
86	30R7	Trimming has been completed in troublesome locations. Reliability work requests have been written and expected to be done in 2009.
87	32R1	Project #452252 scheduled for 2009. Scheduled for trimming in 2009.
88	49S2	Study completed in 2007. Project #452251 scheduled for 2009.
89	11B1	Reliability improvement work completed in 2008 under PAR DR project.

2008 RSAM TOP 100 CIRCUIT LIST

Rank	Circuit	Action
90	23K16	Project #476825 was completed in 2008.
91	27H1	Lateral SMT and Maintenance Backbone ETT completed in 2008. Backbone rehab and the installation of a single phase recloser are to be done under the PAR DR project.
92	30K14	Project 103288 will be completed by 6/09. This project improves voltage regulation, contingency rating, and phase balancing.
93	32P3	Project #496901was completed in 2006. Circuit is scheduled for trimming in 2009.
94	3B12	Project #101526 will install new getaways at a new S/S (Rood Ave, 24J) which will feed the existing 3B12 (new # 23J3). Full ETT was performed in 2008. Project # 101631 is still scheduled but needs re-eval due to new S/S coming on line. Project # 103372 will re-build a problematic 3000' ROW. 2008 backbone performance was much improved.
95	4R13	Circuit is scheduled to be trimmed in 2009.
96	5R7	Lateral SMT and Maintenance Backbone ETT performed in 2008. Additional trimming planned for 2009.
97	20M2	Lateral SMT and Maintenance Backbone ETT performed in 2007. This circuit will be eliminated upon completion of the new Wilton 35A Bulk Substation in 2009.
98	20Y1	Studied in 2005. Projects #5W510227 & #5W510226 added cutouts. Part of circuit transferred to 11F9 under project #101442. Lateral SMT and Maintenance Backbone ETT performed in 2007. Will be replacing an SR with an MR on Route 87 and installing a new SR for larger automatic zone. Will study circuit in 2009.
99	24A14	Project #452178 was completed in 2004. Lateral SMT and Maintenance Backbone ETT performed in 2007. Additional trimming planned for 2009.
100	30K12	Project #101305 was completed 12/05. Included reconductoring and a new loop scheme.

APPENDIX 15

Reliability Corrective Action Plans For Optional Circuits

This appendix was eliminated in 1996. All circuits are included in appendix 14.

APPENDIX 16

Causes Of Interruptions

CAUSES OF INTERRUPTIONS

The Connecticut Light and Power Company reports interruptions using the following common list of interruption cause categories.

TITLE	DEFINITION
Power Supply	Outages caused by the operation of the system in conjunction with other companies such as NEPOOL-imposed load shedding or loss of an external transmission line supplying the company.
Planned	Intentionally de-energizing facilities serving customers for the purpose of apparatus change out, conversion maintenance, relocation/extension, permanent repair, or customer request.
Customer Caused	Any interruption caused by customer owned equipment failure or customer operation.
Storm	A major storm for outage reporting purposes occurs when the number of trouble spots on a particular day exceeds the 98.5% exclusion threshold. This threshold, which is established based upon the most recent four years of interruption data, can be applied at the Regional or the Company level. All reliability data associated with interruptions beginning on that qualifying day would be excluded, even if the interruption extends in subsequent day.
Distribution System	Any interruption that does not fall into the above major categories.

The following are definitions of causes included in *"Distribution System"*.

Animals/Birds	Any interruption caused by animals or birds contacting energized facilities.
Lightning	Any interruption caused by lightning affecting energized facilities.
Overload	Any interruption caused by an electrical overload.
Tree Related	Any interruption caused by vegetation contacting energized facilities, other than customer or employee felled trees.
Vehicle Accident	Any interruption caused by a vehicle contacting a structure, guy or enclosure.

TITLE	DEFINITION
Contact with Foreign Objects	Any interruption caused by unintentional contact with energized facilities brought about by human error. Examples would be ladders, kites, metallic balloons, customer-felled trees, dig-ins, boats, antennas, cranes, and human contact.
Employee Operating Error	Any interruption caused by an inadvertent operating error by an employee or contractor working for the Company, including employee felled trees.
Equipment Failure-OH	Any interruption caused by the failure of a component of the OH Conductor/Cable System.
Equipment Failure-UG UG***Cable System***	Any interruption caused by the failure of a component of the Cable System (excludes the Direct Buried Cable System).
Equipment Failure-Direct Buried Cable System	Any interruption caused by the failure of a component of the Direct Buried Cable System.
Equipment Failure-Transmission	Any interruption caused by the failure of a component of the Company's transmission system.
Equipment Failure-Substation	Any interruption caused by the failure of a component of the substation (bulk and distribution) facilities.
Equipment Failure-Transformers	Any interruption caused by the failure of a distribution transformer.
Equipment Failure-Other	Any interruption caused by failure of a component of the distribution system not covered above.
Other	Any interruption for which the cause is known, but not covered above such as fire or flood, intentional de-energizing to protect crew/public and vandalism.
Unknown	Any interruption caused by an unknown source. For example, if a substation circuit breaker opens and after patrolling the line no cause is found and the circuit breaker is successfully reclosed, the interruption cause would be classified "unknown".

APPENDIX 17

More Report

```
*************************************************************
***                                                       ***
***  REPORT NUMBER: APPENDIX 17                           ***
***                                                       ***
***    REPORT NAME: MORE REPORT                           ***
***                                                       ***
***       CRITERIA: DURATION GREATER THAN 5 MINUTES       ***
***                                                       ***
***                 ALL MAJOR STORMS EXCLUDED             ***
***                                                       ***
***                 CUSTOMER COUNT GREATER THAN 1         ***
***                                                       ***
***                 TRANSFORMER FAILURES EXCLUDED         ***
***                                                       ***
***                 SECONDARY OUTAGES EXCLUDED            ***
***                                                       ***
***                 ALL CUSTOMERS SERVED AT PRIMARY       ***
***                 VOLTAGES >600V                        ***
***                                                       ***
*************************************************************
```

EXCLUDES MAJOR STORMS
DIVISION: CENTRAL

CIRCUIT	AVERAGE CUSTOMERS SERVED	THREE	FOUR	FIVE	SIX	SEVEN	EIGHT	NINE	TEN OR MORE	THREE OR MORE
1C01	613	0	21	0	0	0	0	0	0	21
1C02	3204	218	72	5	0	0	0	0	0	295
1C06	3200	8	0	0	0	0	0	0	0	8
1C19	1298	391	18	0	0	9	2	20	0	440
1C20	3385	419	0	0	0	0	0	0	0	419
1C21	2200	115	31	0	0	0	0	0	0	146
11H64	1801	1	0	0	0	0	0	0	0	1
119	875	1	0	0	0	0	0	0	0	1
12C3	363	119	2	0	0	0	0	0	0	121
12C4	5177	12	155	0	0	0	0	0	0	167
12C5	2276	153	350	0	0	0	0	0	0	503
12C7	2190	32	5	0	0	0	0	0	0	37
12J4	2596	219	9	0	0	0	0	0	0	228
12J5	2277	6	0	0	0	0	0	0	0	6
128	2162	273	0	0	0	0	0	0	0	273
135	1615	510	0	0	0	0	0	0	0	510
14K5	3003	133	0	0	0	0	0	0	0	133
14K6	1992	52	0	0	0	0	0	0	0	52
14K7	3214	90	0	0	0	0	0	0	0	90
14L1	304	3	13	0	0	0	0	0	0	16
14L2	1547	40	0	0	0	0	0	0	0	40
14L4	1052	130	0	1	0	0	0	0	0	131
14W10	1958	21	0	0	0	0	0	0	0	21
14W12	2760	219	1	193	137	190	39	0	0	779
14W4	2326	78	28	0	0	0	0	0	0	106
14W5	2605	175	1355	297	1	0	20	0	0	1,848
14W7	3229	151	17	0	0	0	0	0	0	168
14W9	3975	101	7	110	0	0	0	0	0	218
15M1	3017	457	74	59	0	0	0	0	0	590
15M2	3358	24	14	0	0	0	0	0	0	38
15M3	1988	5	0	0	0	0	0	0	0	5
18R01	299	129	0	0	0	0	0	0	0	129

INCLUDES PRIMARY INTERRUPTIONS ONLY

CONNECTICUT LIGHT AND POWER COMPANY
NUMBER OF CUSTOMERS
EXPERIENCING MULTIPLE INTERRUPTIONS
DURING 2008
EXCLUDES MAJOR STORMS
DIVISION: CENTRAL

CIRCUIT	AVERAGE CUSTOMERS SERVED	THREE	FOUR	FIVE	SIX	SEVEN	EIGHT	NINE	TEN OR MORE	THREE OR MORE
1904	89	73	0	0	0	0	0	0	0	73
2A14	800	4	0	0	0	0	0	0	0	4
2A15	1717	23	41	0	6	0	0	0	0	70
2A4	2506	24	0	11	0	122	0	0	0	157
2N05	756	449	19	0	0	0	0	0	0	468
2N10	2376	299	281	0	0	0	0	0	0	580
2N17	1534	9	37	0	0	0	0	0	0	46
20Q1	845	43	14	0	0	0	0	0	0	57
23J1	2577	102	0	0	0	0	0	0	0	102
23J31	389	10	0	0	0	0	0	0	0	10
23J36	2538	330	37	0	0	0	0	0	0	367
27H1	4022	181	135	52	0	0	0	0	0	368
27H3	1439	21	0	0	0	0	0	0	0	21
27H4	2367	207	103	0	5	0	0	0	0	315
27H6	2270	55	2	15	80	41	30	0	0	223
27H7	2105	8	3	0	0	0	0	0	0	11
27H8	1609	32	0	0	0	0	0	0	0	32
29A1	2820	44	2	0	0	0	0	0	0	46
29A3	3809	285	119	206	60	71	53	3	0	797
3A03	4145	255	0	0	0	0	0	0	0	255
3A04	3602	166	59	0	47	0	0	0	0	272
3A05	1489	84	0	0	0	0	0	0	0	84
3A08	1362	1	0	0	0	0	0	0	0	1
3B03	1461	2	7	4	1	1	0	0	0	15
3B05	2266	44	0	27	5	13	0	0	0	89
3B07	3515	24	0	0	0	0	0	0	0	24
3B08	1598	14	0	0	0	0	0	0	0	14
3B12	2236	53	71	0	0	0	0	0	0	124
3B13	2349	453	18	12	0	0	0	0	0	483
3R02	2890	28	0	0	0	0	0	0	0	28
3R04	2440	50	0	0	0	0	0	0	0	50
3R05	4442	31	0	0	0	0	0	0	0	31

INCLUDES PRIMARY INTERRUPTIONS ONLY

DURING 2008
EXCLUDES MAJOR STORMS
DIVISION: CENTRAL

CIRCUIT	AVERAGE CUSTOMERS SERVED	THREE	FOUR	FIVE	SIX	SEVEN	EIGHT	NINE	TEN OR MORE	THREE OR MORE
30A2	2848	153	30	56	0	0	0	0	0	239
30B4	2319	0	1	0	0	0	0	0	0	1
300Z3	1026	17	0	0	0	0	0	0	0	17
301B4	947	478	122	0	0	0	0	0	0	600
301D1	525	117	0	0	0	0	0	0	0	117
301D4	528	36	0	0	0	0	0	0	0	36
301G1	1454	1	0	0	0	0	0	0	0	1
301L1	356	22	18	22	0	0	0	0	0	62
301L2	36	40	70	56	0	0	0	0	0	166
32G1	1590	19	16	13	3	0	0	0	0	51
32G7	1605	79	0	0	0	0	0	0	0	79
32G8	2443	64	0	0	0	0	0	0	0	64
32G9	1485	4	0	0	0	0	0	0	0	4
36M1	645	278	0	61	0	0	0	0	0	339
36M2	3343	1358	52	350	248	3	0	0	0	2,011
388F3	297	2	0	0	0	0	0	0	0	2
4A10	313	56	0	0	0	0	0	0	0	56
4A5	1129	3	0	0	0	0	0	0	0	3
4H02	111	38	0	0	0	0	0	0	0	38
4H03	923	50	802	39	0	0	0	0	0	891
4204	258	27	0	0	0	0	0	0	0	27
43F2	3010	445	311	9	79	71	0	0	0	915
43F3	4723	619	257	12	0	0	0	0	0	888
47N14	592	80	0	0	0	0	0	0	0	80
47N2	1703	67	0	0	0	0	0	0	0	67
47N3	3570	33	0	0	0	0	0	0	0	33
47N7	3033	555	114	0	0	0	0	0	0	669
47N8	3560	118	1	0	0	0	0	0	0	119
47N9	1102	34	0	0	0	0	0	0	0	34
49S1	2979	29	36	0	2	16	0	0	0	83
49S2	3372	165	0	0	0	0	0	0	0	165
5R2	3158	543	158	0	0	0	0	0	0	701

INCLUDES PRIMARY INTERRUPTIONS ONLY

CONNECTICUT LIGHT AND POWER COMPANY
NUMBER OF CUSTOMERS
EXPERIENCING MULTIPLE INTERRUPTIONS
DURING 2008
EXCLUDES MAJOR STORMS
DIVISION: CENTRAL

CIRCUIT	AVERAGE CUSTOMERS SERVED	THREE	FOUR	FIVE	SIX	SEVEN	EIGHT	NINE	TEN OR MORE	THREE OR MORE
5R3	2889	175	1	0	0	0	0	0	0	176
5R4	3938	251	154	65	11	0	0	0	0	481
*TOTAL DIVISION: CENTRAL		14280	5344	1675	685	537	144	23	0	22,688

INCLUDES PRIMARY INTERRUPTIONS ONLY

EXCLUDES MAJOR STORMS
DIVISION: EASTERN

CIRCUIT	AVERAGE CUSTOMERS SERVED	THREE	FOUR	FIVE	SIX	SEVEN	EIGHT	NINE	TEN OR MORE	THREE OR MORE
1Q01	3864	49	36	27	0	0	0	0	0	112
1Q02	2222	89	37	0	0	0	0	0	0	126
1Q03	2941	639	127	52	74	134	12	14	0	1,052
11A50	1608	41	0	0	0	0	0	0	0	41
11A53	1843	69	25	0	0	0	0	0	0	94
11A54	1648	98	4	0	0	0	0	0	0	102
11A55	620	4	0	0	0	0	0	0	0	4
11A56	250	1	4	2	0	0	0	0	0	7
11A58	3163	832	324	159	9	0	0	0	0	1,324
11A71	1139	46	1	0	0	0	0	0	0	47
11A72	1882	91	0	0	0	0	0	0	0	91
11A74	3125	0	0	1	0	0	0	0	0	1
11A75	1596	102	36	0	0	0	0	0	0	138
11A76	2524	104	0	0	0	0	0	0	0	104
11A77	2506	47	11	0	0	0	0	0	0	58
11B1	1942	381	606	710	173	7	0	0	0	1,877
11B2	1580	357	338	168	51	51	12	0	0	977
11B61	1660	14	177	393	385	190	27	0	0	1,186
11B63	1	1	0	0	0	0	0	0	0	1
11C10	982	213	24	28	0	0	0	0	0	265
11C12	1557	8	5	39	56	0	0	0	0	108
11C13	4107	1	0	0	6	0	0	0	0	7
11C14	3017	152	2	0	0	0	0	0	0	154
11F10	4153	211	18	28	0	0	0	0	0	257
11F12	2732	144	46	0	14	0	0	0	0	204
11F13	2674	226	0	0	0	0	0	0	0	226
11F9	1582	46	0	10	0	9	1	0	0	66
11J30	3791	1004	54	1	0	0	0	0	0	1,059
11J40	265	0	1	0	0	0	0	0	0	1
11J41	2950	216	157	3	15	0	0	0	0	391
11J45	4310	80	10	0	0	0	0	0	0	90
11J58	1503	803	29	0	0	0	0	0	0	832

INCLUDES PRIMARY INTERRUPTIONS ONLY

CONNECTICUT LIGHT AND POWER COMPANY
NUMBER OF CUSTOMERS
EXPERIENCING MULTIPLE INTERRUPTIONS
DURING 2008
EXCLUDES MAJOR STORMS
DIVISION: EASTERN

CIRCUIT	AVERAGE CUSTOMERS SERVED	THREE	FOUR	FIVE	SIX	SEVEN	EIGHT	NINE	TEN OR MORE	THREE OR MORE
11Y1	3843	853	186	83	180	40	3	0	0	1,345
11Y3	3610	28	0	8	0	0	0	0	0	36
11Y6	3165	9	29	0	0	0	0	0	0	38
11Y7	999	65	36	5	0	0	0	0	0	106
11Y8	1871	421	25	69	0	0	0	0	0	515
12J5	2277	80	90	26	30	0	0	0	0	226
12J6	2160	31	40	0	0	0	0	0	0	71
12K3	1232	1	0	0	0	0	0	0	0	1
12M1	756	28	0	0	0	0	0	0	0	28
12M2	2050	147	163	54	0	72	0	0	0	436
12M3	1004	66	9	17	0	0	0	0	0	92
12M4	1587	75	0	0	0	0	11	6	0	92
12M5	1938	32	0	0	0	0	0	0	0	32
12S2	1742	50	0	0	0	0	0	0	0	50
12S3	299	22	0	0	0	0	0	0	0	22
12S4	519	13	0	0	0	0	0	0	0	13
12S5	1223	393	216	81	74	36	37	20	0	857
13B10	2691	449	282	11	0	0	0	0	0	742
13B21	755	53	7	0	0	0	0	0	0	60
13B25	3367	35	0	0	0	0	0	0	0	35
13B27	1092	208	5	0	0	0	0	0	0	213
13B9	3073	214	33	6	2	0	0	0	0	255
13K1	2492	18	58	0	0	0	0	0	0	76
13K2	2282	41	0	0	0	0	0	0	0	41
13K4	2773	174	290	141	0	0	0	0	0	605
13K5	2953	84	8	0	0	0	0	0	0	92
13Q1	849	133	0	0	0	0	0	0	0	133
13Q2	660	1	0	0	0	0	0	0	0	1
13Q4	608	13	0	0	0	0	0	0	0	13
14H1	1907	30	3	76	15	0	0	0	0	124
14H2	2202	461	46	15	0	0	0	0	0	522
14H3	2674	228	92	1	0	0	0	0	0	321

INCLUDES PRIMARY INTERRUPTIONS ONLY

EXCLUDES MAJOR STORMS
DIVISION: EASTERN

CIRCUIT	AVERAGE CUSTOMERS SERVED	THREE	FOUR	FIVE	SIX	SEVEN	EIGHT	NINE	TEN OR MORE	THREE OR MORE
14M22	608	56	85	27	0	0	0	0	0	168
14M29	1399	340	19	0	0	0	0	0	0	359
14M39	2583	33	0	0	0	0	0	0	0	33
14M9	1189	126	172	47	0	0	0	0	0	345
14S3	595	11	3	0	0	0	0	0	0	14
15C8	2605	28	14	0	0	0	0	0	0	42
15D1	1850	54	6	0	0	0	0	0	0	60
15L68	4250	151	22	36	5	0	0	0	0	214
15L70	885	148	0	0	0	0	0	0	0	148
15Y2	2092	125	16	0	19	0	0	0	0	160
15Y3	870	27	53	0	0	0	0	0	0	80
16M2	270	68	0	0	0	0	0	0	0	68
16M3	737	100	0	0	0	0	0	0	0	100
18K2	2632	1	0	0	0	0	0	0	0	1
19Y2	808	9	0	0	0	0	0	0	0	9
2A14	800	1	0	0	0	0	0	0	0	1
2A3	1309	1	0	0	0	0	0	0	0	1
20Y1	1540	836	115	37	125	0	0	0	0	1,113
20Y2	999	337	63	25	1	0	0	0	0	426
21D3	719	37	0	0	0	0	0	0	0	37
21G3	540	10	25	0	0	0	0	0	0	35
21H13	595	58	0	43	0	0	0	0	0	101
21H14	2045	12	0	0	0	0	0	0	0	12
21H8	4661	0	1	69	45	1	0	0	0	116
21H9	2287	69	0	0	0	0	0	0	0	69
21Y2	1201	1009	0	0	0	0	0	0	0	1,009
21Y3	730	434	0	0	0	0	0	0	0	434
22D1	662	164	39	14	0	0	0	0	0	217
22D2	1777	551	333	39	0	0	0	0	0	923
22D3	1413	23	0	0	0	0	0	0	0	23
22D4	741	559	45	0	0	0	0	0	0	604
22E4	730	0	0	0	1	0	0	0	0	1

INCLUDES PRIMARY INTERRUPTIONS ONLY

CONNECTICUT LIGHT AND POWER COMPANY
NUMBER OF CUSTOMERS
EXPERIENCING MULTIPLE INTERRUPTIONS
DURING 2008
EXCLUDES MAJOR STORMS
DIVISION: EASTERN

CIRCUIT	AVERAGE CUSTOMERS SERVED	THREE	FOUR	FIVE	SIX	SEVEN	EIGHT	NINE	TEN OR MORE	THREE OR MORE
22N1	2403	495	168	10	0	0	0	0	0	673
22N2	1563	10	19	4	56	0	0	0	0	89
22N3	1938	0	12	0	0	0	0	0	0	12
22N4	1849	14	13	0	0	0	0	0	0	27
22N5	1696	5	0	0	0	0	0	0	0	5
22N6	1748	54	58	0	0	0	0	0	0	112
22N7	1418	78	45	55	0	0	0	0	0	178
22R1	2285	79	13	0	0	0	0	0	0	92
22R2	3014	3	0	0	0	0	0	0	0	3
22R3	1858	54	47	30	0	0	0	0	0	131
22R4	1696	7	0	0	0	0	0	0	0	7
22R5	3229	226	187	120	33	0	0	0	0	566
22R6	2339	80	14	0	0	0	0	0	0	94
23A2	782	117	2	0	0	0	0	0	0	119
23A3	782	115	2	0	0	0	0	0	0	117
23Q8	2050	33	0	0	0	0	0	0	0	33
23Q9	1766	184	35	0	0	0	0	0	0	219
24K2	1263	795	234	86	0	0	0	0	0	1,115
24L3	1114	21	0	0	0	0	0	0	0	21
25G2	1978	0	0	0	1	0	0	0	0	1
26E8	3118	178	109	12	0	0	0	0	0	299
26E9	1745	83	46	17	30	20	0	0	0	196
27G3	613	1	0	0	0	0	0	0	0	1
28J2	2825	2	0	0	0	0	0	0	0	2
28M1	3417	23	0	0	0	0	0	0	0	23
28M13	1055	33	0	0	0	0	0	0	0	33
28M2	2947	1010	363	175	37	40	40	0	0	1,665
28M3	1181	264	50	14	0	0	0	0	0	328
28M6	2918	39	0	30	0	0	0	0	0	69
28M8	914	1	0	0	0	0	0	0	0	1
29F2	2072	38	62	0	0	0	0	0	0	100
29F3	1470	36	7	0	0	0	0	0	0	43

INCLUDES PRIMARY INTERRUPTIONS ONLY

EXCLUDES MAJOR STORMS
DIVISION: EASTERN

CIRCUIT	AVERAGE CUSTOMERS SERVED	THREE	FOUR	FIVE	SIX	SEVEN	EIGHT	NINE	TEN OR MORE	THREE OR MORE
3R01	3030	112	11	5	0	0	0	0	0	128
3R12	1921	2	0	0	0	0	0	0	0	2
30G1	2757	223	7	6	357	1082	108	11	0	1,794
30G3	0	188	130	0	6	0	0	0	0	324
30K12	1340	35	17	0	0	0	0	0	0	52
30K13	986	203	1	8	21	46	0	0	16	295
30K14	1739	172	57	1	0	0	0	0	0	230
30K15	625	21	13	0	0	0	0	0	0	34
30K16	2741	45	0	0	0	0	0	0	0	45
30K17	2553	181	52	50	13	0	0	0	0	296
30R10	2260	141	50	2	0	0	0	0	0	193
30R12	2418	404	284	128	0	0	0	0	0	816
30R13	705	9	0	0	0	0	0	0	0	9
30R14	974	139	39	0	0	0	0	0	0	178
30R15	760	106	41	83	0	0	0	0	0	230
30R7	3459	27	0	0	0	0	0	0	0	27
30R8	4027	355	146	19	11	29	3	0	0	563
30Y10	2018	37	98	21	5	0	0	0	0	161
30Y8	1410	69	51	0	15	1	0	0	0	136
30Y9	1350	1	0	0	0	0	0	0	0	1
31K1	564	11	0	0	0	0	0	0	0	11
32P1	894	92	66	49	4	126	25	0	0	362
32P3	2767	132	0	0	0	0	0	0	0	132
32P4	1456	39	27	0	0	0	0	0	0	66
32P5	1679	111	101	1	0	0	0	0	0	213
32R1	4644	119	38	18	1	25	0	0	0	201
32R2	2991	258	112	2	1	0	0	0	0	373
34F2	515	274	0	0	0	0	0	0	0	274
34F3	425	241	1	0	0	0	0	0	0	242
37F1	2666	16	0	0	0	0	0	0	0	16
37F2	1980	18	36	18	0	0	0	0	0	72
37F3	1024	133	7	0	0	0	0	0	0	140

INCLUDES PRIMARY INTERRUPTIONS ONLY

CONNECTICUT LIGHT AND POWER COMPANY
NUMBER OF CUSTOMERS
EXPERIENCING MULTIPLE INTERRUPTIONS
DURING 2008
EXCLUDES MAJOR STORMS
DIVISION: EASTERN

CIRCUIT	AVERAGE CUSTOMERS SERVED	THREE	FOUR	FIVE	SIX	SEVEN	EIGHT	NINE	TEN OR MORE	THREE OR MORE
39M1	735	1	15	0	6	11	0	0	0	33
48C10	2293	178	24	0	0	0	0	0	0	202
48C5	1169	168	125	1	14	0	0	0	0	308
48C6	1576	51	59	0	1	0	27	0	0	138
48C7	2368	52	27	0	0	0	0	0	0	79
485	11	0	10	0	0	0	0	0	0	10
49S1	2979	10	13	16	17	0	0	0	0	56
6A25	2453	306	119	0	0	0	0	0	0	425
6A4	585	15	11	1	0	0	0	0	0	27
7A76	470	14	0	0	0	0	0	0	0	14
7A77	1722	344	2	0	2	0	0	0	0	348
7A79	2648	151	0	0	0	0	0	0	0	151
7A82	260	224	0	0	0	0	0	0	0	224
9L01	3021	11	0	0	0	0	0	0	0	11
9L04	1743	42	4	0	0	0	0	0	0	46
9L05	2905	6	1	0	0	0	0	0	0	7
9L07	1855	1	0	0	0	0	0	0	0	1
9L08	2327	172	0	0	0	0	0	0	0	172
9L10	2417	60	0	0	0	0	0	0	0	60
*TOTAL DIVISION: EASTERN		27318	8742	3798	2033	1920	306	51	47	44,215

INCLUDES PRIMARY INTERRUPTIONS ONLY

EXCLUDES MAJOR STORMS
DIVISION: SOUTHERN

CIRCUIT	AVERAGE CUSTOMERS SERVED	THREE	FOUR	FIVE	SIX	SEVEN	EIGHT	NINE	TEN OR MORE	THREE OR MORE
1K02	2209	64	0	0	0	0	0	0	0	64
1K04	1925	71	0	0	0	0	0	0	0	71
1K05	1887	1	0	0	0	0	0	0	0	1
1K06	2019	108	0	0	0	0	0	0	0	108
1K07	946	20	0	0	0	0	0	0	0	20
1K13	316	1	0	0	0	0	0	0	0	1
1K16	1451	22	0	0	0	0	0	0	0	22
11M3	2438	62	26	9	12	11	0	0	0	120
11R1	1379	99	0	0	0	0	0	0	0	99
11R3	1038	78	32	19	16	16	0	0	0	161
11S15	3722	69	64	39	20	0	0	0	0	192
12H16	1281	79	33	32	5	0	0	0	0	149
12H3	512	91	0	0	0	0	0	0	0	91
12H5	565	297	0	0	0	0	0	0	0	297
12J6	2160	2	0	0	0	0	0	0	0	2
12N14	1494	590	44	66	47	2	0	0	0	749
12N15	679	3	30	0	0	0	0	0	0	33
12N16	921	119	57	18	3	0	0	0	0	197
12N17	1771	125	111	0	51	0	0	0	0	287
12N19	1638	499	174	68	18	0	0	0	7	766
12Y10	1467	9	66	17	0	0	0	0	0	92
12Y12	2726	264	28	23	0	0	0	0	0	315
12Y14	1810	35	0	0	0	0	0	0	0	35
12Y15	2989	71	45	30	0	0	0	0	0	146
12Y8	1385	145	69	13	5	0	0	0	0	232
12Y9	2652	332	148	58	1	0	0	0	0	539
13C3	1692	2	0	0	0	0	0	0	0	2
13C4	1498	89	0	0	0	0	0	0	0	89
13S10	3329	63	42	0	0	0	0	0	0	105
13S6	1006	80	10	0	0	0	0	0	0	90
13S7	1260	149	51	4	2	0	0	0	0	206
13S9	2063	51	35	6	0	0	0	0	0	92

INCLUDES PRIMARY INTERRUPTIONS ONLY

CONNECTICUT LIGHT AND POWER COMPANY
NUMBER OF CUSTOMERS
EXPERIENCING MULTIPLE INTERRUPTIONS
DURING 2008
EXCLUDES MAJOR STORMS
DIVISION: SOUTHERN

CIRCUIT	AVERAGE CUSTOMERS SERVED	THREE	FOUR	FIVE	SIX	SEVEN	EIGHT	NINE	TEN OR MORE	THREE OR MORE
14H1	1907	26	13	0	0	0	0	0	0	39
14H2	2202	232	205	27	0	27	0	0	0	491
14H4	2091	193	59	82	13	28	0	0	0	375
14H6	1713	86	0	0	0	0	0	0	0	86
16Q1	877	72	51	41	0	9	0	0	0	173
16Q2	697	262	226	79	29	9	0	0	0	605
16Q7	1223	9	13	37	39	105	54	16	0	273
16Q8	626	64	25	16	13	0	0	0	0	118
16Q9	690	48	0	0	0	0	0	0	0	48
21K8	1950	1	2	39	93	69	1	0	0	205
21M1	922	53	60	15	0	0	0	0	0	128
21M15	1158	294	251	71	1	1	0	0	0	618
21M2	1124	7	0	0	0	0	0	0	0	7
21M3	635	21	12	0	0	0	0	0	0	33
21S5	1386	0	1	0	0	0	0	0	0	1
22E12	1123	216	0	0	0	0	0	0	0	216
22E36	5	5	0	0	0	0	0	0	0	5
22E4	730	9	7	228	99	17	1	1	61	423
22E6	335	162	97	10	0	0	0	0	0	269
22J1	345	8	43	0	0	0	0	0	0	51
22M11	2783	56	25	0	8	0	0	0	0	89
22M14	1509	74	29	26	0	0	0	0	0	129
22M15	1235	1	0	0	0	0	0	0	0	1
22M6	2961	56	3	57	0	0	0	0	0	116
22M8	422	1	22	0	0	0	0	0	0	23
22M9	2007	35	0	0	0	0	0	0	0	35
22N3	1938	49	19	3	0	0	0	0	0	71
22W2	1024	112	1	17	7	0	0	0	0	137
22W3	635	174	3	0	0	0	0	0	0	177
22W4	439	35	0	0	0	0	0	0	0	35
23K11	1255	160	146	67	0	0	0	0	0	373
23K12	1293	0	17	0	0	0	0	0	0	17

INCLUDES PRIMARY INTERRUPTIONS ONLY

DURING 2008
EXCLUDES MAJOR STORMS
DIVISION: SOUTHERN

CIRCUIT	AVERAGE CUSTOMERS SERVED	THREE	FOUR	FIVE	SIX	SEVEN	EIGHT	NINE	TEN OR MORE	THREE OR MORE
23K15	1117	292	1	0	0	0	0	0	0	293
23K16	724	33	47	10	0	0	0	0	0	90
23R1	329	4	0	0	0	0	0	0	0	4
24A10	2633	76	35	0	0	0	0	0	0	111
24A11	634	25	0	1	0	0	0	0	0	26
24A13	2126	84	0	0	0	0	0	0	0	84
24A14	1180	0	3	0	0	0	0	0	0	3
24A15	1234	47	1	0	0	0	0	0	0	48
24A17	1708	310	109	0	0	0	0	0	0	419
25B1	474	8	0	0	0	0	0	0	0	8
25H1	535	47	0	0	0	0	0	0	0	47
27F14	1503	48	100	49	0	0	0	0	0	197
27K1	469	165	96	26	0	0	0	0	0	287
27K2	415	241	84	50	5	0	0	0	0	380
27K3	738	316	240	110	9	1	13	7	0	696
27K4	908	107	9	62	1	3	43	0	0	225
27K5	201	2	136	53	0	4	2	0	0	197
28A3	924	37	0	0	0	0	0	0	0	37
28A4	793	17	0	0	0	0	0	0	0	17
28M2	2947	114	22	0	84	0	0	0	0	220
31A1	1138	69	1	0	3	27	0	0	0	100
31A15	1676	394	136	72	0	8	0	0	0	610
31A2	1060	8	0	0	0	0	0	0	0	8
31A6	1574	57	9	0	0	0	0	0	0	66
31A8	858	177	0	6	0	0	0	0	0	183
31A9	1388	122	50	0	0	0	0	0	0	172
31C1	2399	256	165	137	58	26	20	22	11	695
31C2	843	278	71	1	1	0	0	0	0	351
35A1	964	23	0	0	0	0	0	0	0	23
35A11	58	86	204	37	0	0	0	0	0	327
35A3	86	7	10	17	0	0	0	0	0	34
35A4	340	64	37	6	0	0	0	0	0	107

INCLUDES PRIMARY INTERRUPTIONS ONLY

CONNECTICUT LIGHT AND POWER COMPANY
NUMBER OF CUSTOMERS
EXPERIENCING MULTIPLE INTERRUPTIONS
DURING 2008
EXCLUDES MAJOR STORMS
DIVISION: SOUTHERN

CIRCUIT	AVERAGE CUSTOMERS SERVED	THREE	FOUR	FIVE	SIX	SEVEN	EIGHT	NINE	TEN OR MORE	THREE OR MORE
35A7	1066	28	8	0	1	3	0	0	0	40
35A8	1624	114	72	0	4	0	0	0	0	190
4R08	1537	23	0	0	0	0	0	0	0	23
4R09	1008	9	3	0	0	0	0	0	0	12
4R10	534	30	0	0	0	0	0	0	0	30
4R11	1274	8	39	0	0	0	0	0	0	47
4R12	1105	20	12	43	0	0	0	0	0	75
4R13	860	97	2	0	0	0	0	0	0	99
4R17	994	28	25	0	0	0	0	0	0	53
43F2	3010	1	0	0	0	0	0	0	0	1
51R1	575	0	0	0	11	0	0	0	0	11
51R2	848	5	0	0	0	0	0	0	0	5
9S12	2080	288	0	0	0	0	0	0	0	288
9S13	2709	236	0	0	0	0	0	0	0	236
9S14	2331	1012	94	0	0	0	0	0	0	1,106
9S15	1619	19	0	0	0	0	0	0	0	19
9S16	2541	49	22	0	0	0	0	0	0	71
*TOTAL DIVISION: SOUTHERN		12214	4333	1963	662	366	134	46	79	19,797

INCLUDES PRIMARY INTERRUPTIONS ONLY

EXCLUDES MAJOR STORMS
DIVISION: WESTERN

CIRCUIT	AVERAGE CUSTOMERS SERVED	THREE	FOUR	FIVE	SIX	SEVEN	EIGHT	NINE	TEN OR MORE	THREE OR MORE
1B07	2340	44	2027	154	0	1	39	0	0	2,265
1B08	2631	619	204	0	0	0	0	0	0	823
1B10	2343	310	41	0	0	0	0	0	0	351
1B12	1927	0	15	0	0	0	0	0	0	15
1C03	1988	251	0	0	0	0	0	0	0	251
11B61	1660	0	1	0	0	0	0	0	0	1
11H12	334	257	0	0	0	0	0	0	0	257
11H31	703	3	69	0	0	0	0	0	0	72
11H62	2614	78	80	0	0	0	0	0	0	158
11H65	1326	2	0	0	0	0	0	0	0	2
11H67	1103	45	0	0	0	0	0	0	0	45
11H75	3986	7	0	0	0	0	0	0	0	7
11H79	1905	8	0	0	0	0	0	0	0	8
11K42	1481	47	1	0	0	0	0	0	0	48
11K43	1023	76	24	0	0	0	0	0	0	100
11K49	1233	0	0	14	0	0	0	0	0	14
11N81	2435	507	180	40	12	0	0	0	0	739
11N83	1122	12	0	0	0	0	0	0	0	12
11N85	2076	144	17	0	0	0	0	0	0	161
11N86	2431	83	20	7	0	0	0	0	0	110
11N87	2117	181	11	0	0	0	0	0	0	192
11N88	2634	477	71	5	0	0	0	0	0	553
11S14	1962	112	15	0	0	0	0	0	0	127
11S15	3722	24	0	0	0	0	0	0	0	24
11W76	263	10	118	15	31	0	0	0	0	174
11Y8	1871	0	1	0	0	0	0	0	0	1
12A10	2125	22	36	0	0	0	0	0	0	58
12A12	2506	396	20	0	0	0	0	0	0	416
12A14	2729	21	0	0	0	0	0	0	0	21
12A3	229	1	0	0	0	0	0	0	0	1
12B31	824	1	1	0	0	0	0	0	0	2
12B32	1082	80	581	31	0	0	0	0	0	692

INCLUDES PRIMARY INTERRUPTIONS ONLY

CONNECTICUT LIGHT AND POWER COMPANY
NUMBER OF CUSTOMERS
EXPERIENCING MULTIPLE INTERRUPTIONS
DURING 2008
EXCLUDES MAJOR STORMS
DIVISION: WESTERN

CIRCUIT	AVERAGE CUSTOMERS SERVED	THREE	FOUR	FIVE	SIX	SEVEN	EIGHT	NINE	TEN OR MORE	THREE OR MORE
12B33	953	6	34	0	0	0	0	0	0	40
12B36	3437	53	10	0	0	0	0	0	0	63
12F48	3285	256	39	12	0	0	0	0	0	307
12F49	2780	346	34	0	0	0	0	0	0	380
13F64	1433	75	25	0	0	0	0	0	0	100
13F65	1354	31	83	0	0	0	0	0	0	114
13F66	1109	5	0	0	0	0	0	0	0	5
13F67	1180	1	0	0	0	0	0	0	0	1
13F71	2296	62	30	0	0	0	0	0	0	92
13F72	2234	50	0	0	0	0	0	0	0	50
13H95	2177	49	0	0	0	0	0	0	0	49
13H98	1973	172	0	0	0	0	0	0	0	172
13H99	3299	4	0	0	0	0	0	0	0	4
13Y1	748	156	0	0	0	0	0	0	0	156
13Y2	2359	190	129	0	0	0	0	0	0	319
14A1	620	5	0	0	0	0	0	0	0	5
14N2	585	5	39	0	0	0	0	0	0	44
14N3	1947	82	32	29	35	15	0	0	0	193
15Q4	410	1	0	0	0	0	0	0	0	1
15Q6	2273	0	7	14	0	0	0	0	0	21
15Q7	0	3	0	0	0	0	0	0	0	3
15U1	650	355	130	41	0	0	0	0	0	526
15U2	3488	621	104	116	46	0	0	0	0	887
15U3	2488	66	37	0	0	0	0	0	0	103
15U4	3630	320	119	76	56	45	0	0	0	616
17Q1	1284	998	121	0	0	0	0	0	0	1,119
17Q2	916	762	68	0	0	0	0	0	0	830
17W2	623	31	0	0	0	0	0	0	0	31
18B2	839	4	0	0	0	0	0	0	0	4
19U1	1752	36	21	9	9	0	0	0	0	75
19U2	863	145	26	21	9	0	0	0	0	201
2B4	1615	37	44	0	0	0	0	0	0	81

INCLUDES PRIMARY INTERRUPTIONS ONLY

EXCLUDES MAJOR STORMS
DIVISION: WESTERN

CIRCUIT	AVERAGE CUSTOMERS SERVED	THREE	FOUR	FIVE	SIX	SEVEN	EIGHT	NINE	TEN OR MORE	THREE OR MORE
2B5	2000	50	20	3	0	0	0	0	0	73
2B6	1128	20	86	4	7	0	0	0	0	117
20F4	705	82	0	0	0	0	0	0	0	82
20H3	510	1	0	0	0	0	0	0	0	1
20U1	1459	106	1	0	0	0	0	0	0	107
20U2	555	4	0	0	0	0	0	0	0	4
21J3	1683	58	5	0	0	0	0	0	0	63
21J4	1660	1398	196	36	0	0	1	0	9	1,640
21K1	448	19	0	0	0	0	0	0	0	19
21K11	2640	261	153	41	0	0	14	0	0	469
21K2	1331	6	3	46	0	0	0	0	0	55
21K3	1064	64	69	3	116	0	0	0	0	252
21K6	1420	120	107	15	0	0	0	0	0	242
21K7	2155	45	6	2	0	0	0	0	0	53
21K8	1950	243	221	22	0	11	0	0	0	497
21L1	3809	194	96	33	0	0	0	0	0	323
21L3	3087	148	9	0	0	0	0	0	0	157
21L8	2363	281	0	0	0	0	0	0	0	281
21P2	2005	25	0	0	0	0	0	0	0	25
21P5	1670	58	0	0	0	0	0	0	0	58
21Q1	1481	28	0	2	0	0	0	0	0	30
22F3	865	58	5	2	2	0	0	0	0	67
22F4	1264	7	7	6	0	0	0	0	0	20
24H3	1461	68	10	0	0	0	0	0	0	78
24H6	2514	26	0	0	0	0	0	0	0	26
24R2	801	0	8	0	0	0	0	0	0	8
25H1	535	1	0	0	0	0	0	0	0	1
26F1	1091	0	844	141	92	0	0	0	0	1,077
29J1	2248	386	76	39	18	0	0	0	0	519
29J2	1580	46	31	0	0	0	0	0	0	77
29W1	954	612	130	6	0	0	0	0	0	748
30F2	2013	12	0	0	0	0	0	0	0	12

INCLUDES PRIMARY INTERRUPTIONS ONLY

CONNECTICUT LIGHT AND POWER COMPANY
NUMBER OF CUSTOMERS
EXPERIENCING MULTIPLE INTERRUPTIONS
DURING 2008
EXCLUDES MAJOR STORMS
DIVISION: WESTERN

CIRCUIT	AVERAGE CUSTOMERS SERVED	THREE	FOUR	FIVE	SIX	SEVEN	EIGHT	NINE	TEN OR MORE	THREE OR MORE
30L23	2489	333	20	16	0	0	0	0	0	369
30L24	1801	31	0	0	0	0	0	0	0	31
30L25	1365	102	0	0	0	0	0	0	0	102
30L28	640	76	0	0	0	0	0	0	0	76
31A8	858	1	0	0	0	0	0	0	0	1
32G3	2485	1	0	0	0	0	0	0	0	1
37J1	1236	111	76	11	34	0	1	7	0	240
4A11	1426	8	2	0	0	0	0	0	0	10
4A12	3494	33	0	0	0	0	0	0	0	33
4A2	1068	10	0	0	0	0	0	0	0	10
4A8	3161	128	0	0	0	0	0	0	0	128
4C12	1862	25	0	0	0	0	0	0	0	25
4C15	1862	15	0	0	0	0	0	0	0	15
4C16	2268	82	0	97	0	0	0	0	0	179
4C3	483	0	10	1	427	2	35	0	0	475
4C71	5	3	0	0	0	0	0	0	0	3
4L06	886	402	107	67	131	4	103	7	5	826
4L08	900	497	247	59	14	0	0	0	0	817
4L09	818	69	174	72	65	2	0	10	0	392
5L01	199	105	0	0	0	0	0	0	0	105
5L02	1126	6	0	0	0	0	0	0	0	6
5L04	1040	166	45	79	24	20	4	2	16	356
5R1	1506	16	0	0	0	0	0	0	0	16
5R5	2744	150	53	4	0	0	0	0	0	207
5R7	3618	10	77	22	0	0	0	0	0	109
6A10	613	20	23	0	0	0	0	0	0	43
6A11	783	143	0	0	0	0	0	0	0	143
6A9	1461	27	0	0	0	0	0	0	0	27
7L84	261	222	0	0	0	0	0	0	0	222
7L88	3133	55	33	18	0	0	0	0	0	106
8A2	2627	0	1	0	0	0	0	0	0	1

INCLUDES PRIMARY INTERRUPTIONS ONLY

EXCLUDES MAJOR STORMS
DIVISION: WESTERN

CIRCUIT	AVERAGE CUSTOMERS SERVED	THREE	FOUR	FIVE	SIX	SEVEN	EIGHT	NINE	TEN OR MORE	THREE OR MORE
*TOTAL DIVISION: WESTERN		16182	7617	1431	1128	100	197	26	30	26,711

INCLUDES PRIMARY INTERRUPTIONS ONLY

CONNECTICUT LIGHT AND POWER COMPANY
NUMBER OF CUSTOMERS
EXPERIENCING MULTIPLE INTERRUPTIONS
DURING 2008
EXCLUDES MAJOR STORMS

CIRCUIT	AVERAGE CUSTOMERS SERVED	THREE	FOUR	FIVE	SIX	SEVEN	EIGHT	NINE	TEN OR MORE	THREE OR MORE
TOTAL CL&P		69994	26036	8867	4508	2923	781	146	156	113,411

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***** END OF REPORT *****
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INCLUDES PRIMARY INTERRUPTIONS ONLY

APPENDIX 18

Status of Previous Corrective Actions

STATUS OF PREVIOUS CORRECTIVE ACTION
(WORST CIRCUITS – ALL IDENTIFIED IN 3/31/08 TDRP)
AS OF 03/01/2009

Rank	Circuit	Action
1	12N14	Project #476807 (Segments-4 & 5 Reconductor and feeder tie with Triangle S/S 11A) was completed 1/07. Backbone Rehab Segments-1, 2 & 3 will be part of future construction.
2	26E8	Circuit will be studied in 2009.
3	13K1	Project #452207 completed in 2006. Trimming complete as of 2-24-2009.
4	22N1	Lateral SMT and Maintenance Backbone ETT performed in 2008. Additional trimming scheduled for 2009.
5	30Y8	Project #452224 completed in 2007. Lateral SMT and Maintenance Backbone ETT performed in 2008.
6	11F13	Sectionalizing switches to be installed along backbone as part of 2008 PAR DR program. Babcock Hill Road reconductored with tree wire and installed cutouts under 2007 PAR DR program. Trimmed circuit in 2006. Lateral ETT planned for 2009. Will study circuit in 2009.
7	12N16	Project # 476766A scheduled to start construction in 2010.
8	31C1	Lateral SMT and Maintenance Backbone ETT performed in 2008. Additional trimming is scheduled for 2009.
9	4C12	Project #103088 completed in 2008.
10	12J4	Studied in 2006. Circuit trimmed in 2006. Project #452241 completed in 2008. Will study circuit in 2009.
11	12J5	Had many "3-or-mores" in 2008 that were resolved with tree trimming and annual work orders. Will study circuit in 2009.
12	26E9	Project #101757 completed in 2008. Annual project #5D710207/5D710224 completed in 2008. Project #101377 to be completed in 2010. Lateral SMT and Maintenance Backbone ETT performed in 2008.
13	11A74	Project #476837 completed in 2007.
14	13K3	Project #103180 in-progress as of 2-24-09 with an in-service date of 6-1-09 will establish auto-loop with 32P3 out of Shunock 32P.
15	22R1	Project #101382 completed in 2008.
16	30Y10	Project #452256 has work orders written and scheduled for 2009.
17	4L06	Project #452243 completed in 2008. Poor performance in 2008 primarily due to June '08 storm. Backbone and Lateral tree trimming performed in 2007.
18	4R09	Project #452255 was established and is planned to be completed in 2009.
19	22N3	TDRP Project #452222 completed in 2007. Lateral SMT and Maintenance Backbone ETT performed in 2007.
20	11A50	Project #101699 planned for completion in 2009. Plumtree 30G3 will be energized, which will absorb majority of 11A50. CFM Project #476771 planned for 2010.

STATUS OF PREVIOUS CORRECTIVE ACTION
(WORST CIRCUITS – ALL IDENTIFIED IN 3/31/08 TDRP)
AS OF 03/01/2009

Rank	Circuit	Action
21	14M9	Was studied in 2007. Project #452250 was tabled 11/7/07 due to high $/CMS. Lateral SMT and Maintenance Backbone ETT performed in 2008.
22	19U1	Project #487224 completed in 2008. Three backbone areas (Maple St, Bantam Lake Rd. & Bantam Rd.) were Lateral ETT Trimmed in 2008.
23	30Y9	Project #452264 scheduled for 2009.
24	31K1	Project #103179 completed in 2007. Adding single phase reclosers in 2009.
25	5L04	Was studied in 2005. No cost-justifiable improvements identified. Lateral SMT and Maintenance Backbone ETT performed in 2008. Poor performance in 2008 primarily due to June '08 storm. Backbone and Lateral tree trimming performed in 2008.
26	11C14	Project #476871 completed in 2007. Circuit is scheduled for trimming in 2009. Studied in 2008.
27	14N3	Poor performance in 2008 primarily due to June '08 storm. Sandy Brook Rd. & Prock Hill Rd. side taps were Lateral ETT in 2008.
28	21H8	Project #101335 completed in 2008. Trimming scheduled for 2009. Will study in 2009.
29	25H1	Planned elimination of circuit under Project #476740 in 2010. Lateral SMT and Maintenance Backbone ETT performed in 2007.
30	30R8	Reliability work completed in 2004. Circuit is scheduled for trimming in 2009. Numerous reliability improvements throughout the circuit are planned for completion in 2009.
31	32R2	Project #452248 scheduled for 2009.
32	11C13	Project #101989 completed in 2008. Tree Trimmed in 2008.
33	124	One large outage related to July 2004 Van Dyke 12 station interruption. No further study required.
34	12J6	Troubled side tap, Baxter Road, reconductored with tree wire and installed cutouts as part of 2007 PAR DR program. Circuit scheduled for trimming in 2009.
35	12Y8	Project #476821 will be completed in 2010. Lateral ETT scheduled for 2009.
36	15M3	Lateral SMT and Maintenance Backbone ETT performed in 2007. No further study.
37	17Y2	Project #103292 scheduled for 2009.
38	20M2	Lateral SMT and Maintenance Backbone ETT performed in 2007. This circuit will be eliminated upon completion of the new Wilton 35A Bulk Substation in 2009.
39	30K12	Project #101305 was completed 12/05. Included reconductoring and a new loop scheme.
40	11F12	Sectionalizing switches will be installed along the backbone in 2009 under the PAR DR program. Tree trimming complete in 2007. Will study circuit in 2009.

STATUS OF PREVIOUS CORRECTIVE ACTION
(WORST CIRCUITS – ALL IDENTIFIED IN 3/31/08 TDRP)
AS OF 03/01/2009

Rank	Circuit	Action
41	15M1	Project #452227 completed in 2006. 15M1 scheduled for trimming in 2009. Several DR improvements done over the last several years in "troubled" areas.
42	22M16	CFM project #476712 to be completed in 2009.
43	22N6	Project # 476765 to be completed in 2010. Trimming scheduled for 2009.
44	14W12	Project #103394 scheduled for 2009 construction.
45	15C8	Project #452258 scheduled for 2009. Mid-cycle ETT performed in 2008.
46	21J4	Poor performance in 2008 primarily due to June '08 storm. Six side taps were Lateral ETT in 2008. Huntington Ridge Side Tap - 4 or more addressed in 2008.
47	22J1	Project #452218 was completed in 2006. Lateral SMT and Maintenance Backbone ETT performed in 2007. Performance has since improved, no further study required.
48	22R2	Project #101335 completed in 2008. Will study in 2009.
49	28M3	Lateral SMT and Maintenance Backbone ETT performed in 2008.
50	301B2	Performance of the 301B2 has improved in 2008. Project #476792 planned for 2010 to improve performance of source circuits 2N17 and 2N05. No further study required for 301B2.
51	32R1	Project #452252 scheduled for 2009. Scheduled for trimming in 2009.
52	13B9	Will review in 2009 since last studied in 2004. Lateral SMT and Maintenance backbone ETT completed in 2008.
53	11M1	This circuit was eliminated under project #101188 and was completed in August, 2005.
54	11R2	Backbone ETT and Later SMT performed in 2007; performance has improved.
55	12N17	Project #452186 completed in 2004. Lateral ETT scheduled for 2009.
56	14A1	Lateral SMT and Maintenance Backbone ETT performed on this circuit in 2008.
57	16Q7	CFM Project #476826 completed in 2008.
58	1K16	Project #101855 to address feeder overload completed in 2007.
59	1Q01	Project #452221 completed in 2007.
60	21M3	Project #476693 planned for 2010.
61	23Q9	Project #103016 planned for 2010.
62	27K3	Project #452205 was completed in 2006. Lateral SMT and Backbone ETT performed in 2007.
63	4304	During 2006, a set of in-line 140K fused cutouts were relocated further down stream. Also during 2006, load balance was studied and found to be OK.

STATUS OF PREVIOUS CORRECTIVE ACTION
(WORST CIRCUITS – ALL IDENTIFIED IN 3/31/08 TDRP)
AS OF 03/01/2009

Rank	Circuit	Action
64	11B61	Project #452207 was completed in 2007. Lateral ETT performed in 2008.
65	1C06	Study completed in 2007. Project #103212 completed in 2008. Direct buried cable rejuvenation completed in two URD developments in 2007.
66	22N5	Lateral SMT and Maintenance Backbone ETT performed in 2007.
67	11S15	Lateral SMT and Maintenance Backbone ETT performed on this circuit in 2008. Project #452173 completed in 2003. DR reconductoring projects on Judge Ln. & Woodcreek Rd. side taps were completed in 2008. Lateral ETT performed on Stoddard Rd. in 2008. DR reconductoring project on Paddy Hollow Rd. side tap is scheduled for 2009.
68	12F48	ROW trimming completed in 2008. No further plans to study in 2009.
69	22R4	Mid-cycle Backbone ETT performed in 2008.
70	22R6	The 22R6 is a new feeder that was established in 2007. Appearance on the TDRP list is due to one large storm related outage. Studied in 2008, no project justified.
71	27K5	Project #452205 completed in 2008. Lateral SMT and Backbone ETT performed in 2007.
72	30K14	Project 103288 will be completed by 6/09. This project improves voltage regulation, contingency rating, and phase balancing.
73	30R7	Trimming has been completed in troublesome locations. Reliability work requests have been written and expected to be done in 2009.
74	3B12	Project #101526 will install new getaways at a new S/S (Rood Ave, 24J) which will feed the existing 3B12 (new # 23J3). Full ETT was performed in 2008. Project # 101631 is still scheduled but needs re-eval due to new S/S coming on line. Project # 103372 will re-build a problematic 3000' ROW. 2008 backbone performance was much improved.
75	49S2	Study completed in 2007. Project #452251 scheduled for 2009.
76	12Y15	Mid-cycle ETT performed in 2008. Lateral ETT scheduled for 2009. Majority of customer minutes in 2008 due to transmission outage on 5/27/2008; no further plans to study.
77	16Q2	Project #452175 planned for 2009.
78	17Y1	Project #103292 planned for completion in 2009.
79	24A14	Project #452178 was completed in 2004. Lateral SMT and Maintenance Backbone ETT performed in 2007. Additional trimming planned for 2009.
80	2N05	Project #103340 scheduled for 2009.
81	12N19	Project #452274 planned for 2009.
82	135	Project #476853 proposes to replace three-phase fault interrupter with automatic PMH-9/12 switchgear, deferred to 2010.
83	15L68	Replaced failing compression splices under WR #828549 and #834627. Completed 02/07. Lateral ETT scheduled for 2009.

STATUS OF PREVIOUS CORRECTIVE ACTION
(WORST CIRCUITS – ALL IDENTIFIED IN 3/31/08 TDRP)
AS OF 03/01/2009

Rank	Circuit	Action
84	1906	Studied in 2007. Project #103189 is scheduled for 2010 to convert this circuit and eliminate Deerfield 19 substation. An auto loop for customers now on circuit 1906 is also planned as part of Project #103189.
85	22N7	Trimming scheduled for 2009.
86	3A03	Project #476747 completed in 2004. Future new circuit 3A11 will reduce exposure (planned ISD 12/31/2009). Circuit maintenance tree trimming completed on this circuit in 2006.
87	4H05	Project #476822 was completed in 2005. Project #476769 completed in 2004. Circuit to be eliminated in 2009.
88	13K2	ETT Backbone/ Lateral done in 2007. Circuit will be supplied via new switchgear and transformer by the end of 2009.
89	27H9	Study completed in 2008. New loop scheme placed in service in 2007.
90	11S14	Project #452268 scheduled for 2009. Mid-cycle Backbone ETT performed in 2008.
91	12Y3	This circuit no longer exists. It was converted and load was transferred to 12Y10 and 12Y12.
92	25Q1	TDRP/CFM Project #452197 scheduled for completion early 2009.
93	27H1	Lateral SMT and Maintenance Backbone ETT completed in 2008. Backbone rehab and the installation of a single phase recloser are to be done under the PAR DR project.
94	28A3	Project #476843 completed in 2008.
95	37J1	Project #101517 planned for 2010. Lateral SMT and Maintenance Backbone ETT performed in 2007. Yelping Hill Rd. & Popple Swamp Rd. side taps were Lateral ETT in 2008. DR reconductoring scheduled for Yelping Hill Tap in 2009.
96	3B07	Fall 2008, primary spreaders were installed between 3B06 and 3B07 to eliminate conductors slapping together within the R.O.W. where both circuits share the same pole via 4-over-2 construction. Substation project to upgrade buss protection relay scheduled for completion 2009.
97	13B25	Project #452211 currently in Engineering phase.
98	1K02	Project #452261 scheduled for 2009 construction. Mid-cycle ETT performed in 2008.
99	1K12	Trimming scheduled for 2009.
100	21G3	Lateral SMT and Maintenance Backbone ETT performed on this circuit in 2008. Project #452173 was complete in 2003. Will pursue back-up source with Bozrah Light & Power for cost justifiable solution.

STATUS OF PREVIOUS CORRECTIVE ACTION
(WORST CIRCUITS – ALL IDENTIFIED IN 3/31/07 TDRP)
AS OF 03/01/2009

Rank	Circuit	Action
1	12N19	Project #452274 planned for 2009.
2	51R1	Project #101886 completed in 2007. Portion of circuit scheduled for 2009 trimming.
3	51R2	Project #101886 completed in 2007.
4	30Y8	Project #452224 completed in 2007. Lateral SMT and Maintenance Backbone ETT performed in 2008.
5	16Q2	Project #452175 planned for 2009.
6	22M16	CFM project #476712 to be completed in 2009.
7	31A9	TDRP Project #452245 completed in 2007. Lateral SMT and Maintenance Backbone ETT performed in 2008.
8	31C1	Lateral SMT and Maintenance Backbone ETT performed in 2008. Additional trimming is scheduled for 2009.
9	Meriden UG Sec. Network	Projects #103015, #103056 and #103059 completed in 2007. All "core" portions of the Meriden UG network have been replaced. "Fringe" network areas scheduled for conversion by June 1, 2009.
10	12N14	Project #476807 (Segments-4 & 5 Reconductor and feeder tie with Triangle S/S 11A) was completed 1/07. Backbone Rehab Segments-1, 2 & 3 will be part of future construction.
11	13K1	Project #452207 completed in 2006. Trimming complete as of 2-24-2009.
12	22E12	Project #452237 planned for 2009.
13	4R09	Project #452255 was established and is planned to be completed in 2009.
14	15M3	Lateral SMT and Maintenance Backbone ETT performed in 2007. No further study.
15	16Q7	CFM Project #476826 completed in 2008.
16	17Y2	Project #103292 scheduled for 2009.
17	26E8	Circuit will be studied in 2009.
18	19U1	Project #487224 completed in 2008. Three backbone areas (Maple St, Bantam Lake Rd. & Bantam Rd.) were Lateral ETT Trimmed in 2008.
19	2N05	Project #103340 scheduled for 2009.
20	22N3	TDRP Project #452222 completed in 2007. Lateral SMT and Maintenance Backbone ETT performed in 2007.

STATUS OF PREVIOUS CORRECTIVE ACTION
(WORST CIRCUITS – ALL IDENTIFIED IN 3/31/07 TDRP)
AS OF 03/01/2009

Rank	Circuit	Action
21	20U1	Hydraulic recloser installation completed in 2007. Lateral SMT and Maintenance Backbone ETT completed in 2008. No further study planned. School House Rd. was Lateral ETT in 2008.
22	32R2	Project #452248 scheduled for 2009.
23	22N1	Lateral SMT and Maintenance Backbone ETT performed in 2008. Additional trimming scheduled for 2009.
24	301B2	Performance of the 301B2 has improved in 2008. Project #476792 planned for 2010 to improve performance of source circuits 2N17 and 2N05. No further study required for 301B2.
25	14N3	Poor performance in 2008 primarily due to June '08 storm. Sandy Brook Rd. & Prock Hill Rd. side taps were Lateral ETT in 2008.
26	25H1	Planned elimination of circuit under Project #476740 in 2010. Lateral SMT and Maintenance Backbone ETT performed in 2007.
27	4L06	Project #452243 completed in 2008. Poor performance in 2008 primarily due to June '08 storm. Backbone and Lateral tree trimming performed in 2007.
28	30K12	Project #101305 was completed 12/05. Included reconductoring and a new loop scheme.
29	11C13	Project #101989 completed in 2008. Tree Trimmed in 2008.
30	11F12	Sectionalizing switches will be installed along the backbone in 2009 under the PAR DR program. Tree trimming complete in 2007. Will study circuit in 2009.
31	21M3	Project #476693 planned for 2010.
32	32P3	Project #496901was completed in 2006. Circuit is scheduled for trimming in 2009.
33	11F13	Sectionalizing switches to be installed along backbone as part of 2008 PAR DR program. Babcock Hill Road reconductored with tree wire and installed cutouts under 2007 PAR DR program. Trimmed circuit in 2006. Lateral ETT planned for 2009. Will study circuit in 2009.
34	15M1	Project #452227 completed in 2006. 15M1 scheduled for trimming in 2009. Several DR improvements done over the last several years in "troubled" areas.
35	124	One large outage related to July 2004 Van Dyke 12 station interruption. No further study required.
36	16Q1	Majority of outages were tree related. Backbone ETT was performed in 2007, Lateral ETT was performed in 2008.
37	21H8	Project #101335 completed in 2008. Trimming scheduled for 2009. Will study in 2009.
38	30Y10	Project #452256 has work orders written and scheduled for 2009.

STATUS OF PREVIOUS CORRECTIVE ACTION
(WORST CIRCUITS – ALL IDENTIFIED IN 3/31/07 TDRP)
AS OF 03/01/2009

Rank	Circuit	Action
39	22J1	Project #452218 was completed in 2006. Lateral SMT and Maintenance Backbone ETT performed in 2007. Performance has since improved, no further study required.
40	5L04	Was studied in 2005. No cost-justifiable improvements identified. Lateral SMT and Maintenance Backbone ETT performed in 2008. Poor performance in 2008 primarily due to June '08 storm. Backbone and Lateral tree trimming performed in 2008.
41	11M1	This circuit was eliminated under project #101188 and was completed in August, 2005.
42	14A1	Lateral SMT and Maintenance Backbone ETT performed on this circuit in 2008.
43	22R2	Project #101335 completed in 2008. Will study in 2009.
44	24H6	Project #476773 was completed in 2004. No further plans to study.
45	25B3	Project #494301 planned for 2010, which will convert 25B Substation and 25B1 circuit and tie to Flax Hill 24A circuit.
46	301B4	Performance of the 301B4 has improved in 2008. Project #476792 planned for 2010 to improve performance of source circuits 2N17 and 2N05. No further study required for 301B4.
47	4R08	Lateral SMT and Maintenance Backbone ETT performed in 2008. 600A switches added in 2008.
48	13K3	Project #103180 in-progress as of 2-24-09 with an in-service date of 6-1-09 will establish auto-loop with 32P3 out of Shunock 32P.
49	21J4	Poor performance in 2008 primarily due to June '08 storm. Six side taps were Lateral ETT in 2008. Huntington Ridge Side Tap - 4 or more addressed in 2008.
50	23Q9	Project #103016 planned for 2010.
51	32R1	Project #452252 scheduled for 2009. Scheduled for trimming in 2009.
52	1K16	Project #101855 to address feeder overload completed in 2007.
53	11A50	Project #101699 planned for completion in 2009. Plumtree 30G3 will be energized, which will absorb majority of 11A50. CFM Project #476771 planned for 2010.
54	12J4	Studied in 2006. Circuit trimmed in 2006. Project #452241 completed in 2008. Will study circuit in 2009.
55	12J6	Troubled side tap, Baxter Road, reconductored with tree wire and installed cutouts as part of 2007 PAR DR program. Circuit scheduled for trimming in 2009.
56	15C8	Project #452258 scheduled for 2009. Mid-cycle ETT performed in 2008.
57	25B1	Project #494301 has an anticipated ISD of 2010.
58	20M1	This circuit has been eliminated with the completion of the Wilton 35A new bulk substation.

STATUS OF PREVIOUS CORRECTIVE ACTION
(WORST CIRCUITS – ALL IDENTIFIED IN 3/31/07 TDRP)
AS OF 03/01/2009

Rank	Circuit	Action
59	21K8	Lateral SMT and Maintenance Backbone ETT performed in 2007. Additional trimming performed in 2008. DR improvements planned for 2009.
60	22R1	Project #101382 completed in 2008.
61	26E9	Project #101757 completed in 2008. Annual project #5D710207/5D710224 completed in 2008. Project #101377 to be completed in 2010. Lateral SMT and Maintenance Backbone ETT performed in 2008.
62	27K3	Project #452205 was completed in 2006. Lateral SMT and Backbone ETT performed in 2007.
63	37J1	Project #101517 planned for 2010. Lateral SMT and Maintenance Backbone ETT performed in 2007. Yelping Hill Rd. & Popple Swamp Rd. side taps were Lateral ETT in 2008. DR reconductoring scheduled for Yelping Hill Tap in 2009.
64	1C06	Study completed in 2007. Project #103212 completed in 2008. Direct buried cable rejuvenation completed in two URD developments in 2007.
65	11R1	Project # 452216 scheduled for completion in 2009.
66	11Y7	Project #101745 completed in 2007.
67	12Y9	Lateral SMT and Maintenance Backbone ETT performed in 2007.
68	13B9	Will review in 2009 since last studied in 2004. Lateral SMT and Maintenance backbone ETT completed in 2008.
69	13S10	Project #452236 planned for 2009.
70	17Y1	Project #103292 planned for completion in 2009.
71	20M2	Lateral SMT and Maintenance Backbone ETT performed in 2007. This circuit will be eliminated upon completion of the new Wilton 35A Bulk Substation in 2009.
72	22R4	Mid-cycle Backbone ETT performed in 2008.
73	28A3	Project #476843 completed in 2008.
74	3B12	Project #101526 will install new getaways at a new S/S (Rood Ave, 24J) which will feed the existing 3B12 (new # 23J3). Full ETT was performed in 2008. Project # 101631 is still scheduled but needs re-eval due to new S/S coming on line. Project # 103372 will re-build a problematic 3000' ROW. 2008 backbone performance was much improved.
75	31K1	Project #103179 completed in 2007. Adding single phase reclosers in 2009.
76	4H05	Project #476822 was completed in 2005. Project #476769 completed in 2004. Circuit to be eliminated in 2009.
77	4L09	Project #452223 completed in 2008. Lateral SMT and Maintenance Backbone ETT performed in 2008. Poor performance in 2008 primarily due to June '08 storm. River Rd. & White Hollow Rd. side taps were Lateral ETT in 2008.
78	4R11	Project #452191 was completed in 2004. Circuit scheduled for trimming in 2009.

STATUS OF PREVIOUS CORRECTIVE ACTION
(WORST CIRCUITS – ALL IDENTIFIED IN 3/31/07 TDRP)
AS OF 03/01/2009

Rank	Circuit	Action
79	5R7	Lateral SMT and Maintenance Backbone ETT performed in 2008. Additional trimming planned for 2009.
80	11C14	Project #476871 completed in 2007. Circuit is scheduled for trimming in 2009. Studied in 2008.
81	11S14	Project #452268 scheduled for 2009. Mid-cycle Backbone ETT performed in 2008.
82	12J5	Had many "3-or-mores" in 2008 that were resolved with tree trimming and annual work orders. Will study circuit in 2009.
83	12Y8	Project #476821 will be completed in 2010. Lateral ETT scheduled for 2009.
84	20F82	20F82 no longer exists and is now part of 11N88. Bare wire primary that was 20F82 backbone to be reconductored with covered conductor per Project #103049 in 2009.
85	4C12	Project #103088 completed in 2008.
86	49S2	Study completed in 2007. Project #452251 scheduled for 2009.
87	11M3	Scheduled for trimming in 2009.
88	30K14	Project 103288 will be completed by 6/09. This project improves voltage regulation, contingency rating, and phase balancing.
89	32P1	Lateral ETT done in 2007, circuit scheduled for trimming in 2009.
90	12A12	Project #452244 completed in 2008.
91	12N16	Project # 476766A scheduled to start construction in 2010.
92	21M15	Project #452267 scheduled for 2009.
93	24A14	Project #452178 was completed in 2004. Lateral SMT and Maintenance Backbone ETT performed in 2007. Additional trimming planned for 2009.
94	4304	During 2006, a set of in-line 140K fused cutouts were relocated further down stream. Also during 2006, load balance was studied and found to be OK.
95	9S12	Project #476689 was completed in 2004.
96	13K2	ETT Backbone/ Lateral done in 2007. Circuit will be supplied via new switchgear and transformer by the end of 2009.
97	14M9	Was studied in 2007. Project #452250 was tabled 11/7/07 due to high $/CMS. Lateral SMT and Maintenance Backbone ETT performed in 2008.
98	22R5	TDRP Project #452254 scheduled for 2009.
99	3B05	Project #102102B completed in 2008. Additional tie point installed.

STATUS OF PREVIOUS CORRECTIVE ACTION
(WORST CIRCUITS – ALL IDENTIFIED IN 3/31/07 TDRP)
AS OF 03/01/2009

Rank	Circuit	Action
100	3B07	Fall 2008, primary spreaders were installed between 3B06 and 3B07 to eliminate conductors slapping together within the R.O.W. where both circuits share the same pole via 4-over-2 construction. Substation project to upgrade buss protection relay scheduled for completion 2009.

STATUS OF PREVIOUS CORRECTIVE ACTION
(WORST CIRCUITS – ALL IDENTIFIED IN 3/31/06 TDRP)
AS OF 03/01/2009

Rank	Circuit	Action
1	20U1	Hydraulic recloser installation completed in 2007. Lateral SMT and Maintenance Backbone ETT completed in 2008. No further study planned. School House Rd. was Lateral ETT in 2008.
2	23S3	Circuit was eliminated in 2004.
3	22M16	CFM project #476712 to be completed in 2009.
4	12N14	Project #476807 (Segments-4 & 5 Reconductor and feeder tie with Triangle S/S 11A) was completed 1/07. Backbone Rehab Segments-1, 2 & 3 will be part of future construction.
5	31A9	TDRP Project #452245 completed in 2007. Lateral SMT and Maintenance Backbone ETT performed in 2008.
6	31C1	Lateral SMT and Maintenance Backbone ETT performed in 2008. Additional trimming is scheduled for 2009.
7	16Q2	Project #452175 planned for 2009.
8	30Y8	Project #452224 completed in 2007. Lateral SMT and Maintenance Backbone ETT performed in 2008.
9	24H6	Project #476773 was completed in 2004. No further plans to study.
10	13K1	Project #452207 completed in 2006. Trimming complete as of 2-24-2009.
11	14M24	One major outage in 2005, no action required.
12	2N05	Project #103340 scheduled for 2009.
13	4R09	Project #452255 was established and is planned to be completed in 2009.
14	14N3	Poor performance in 2008 primarily due to June '08 storm. Sandy Brook Rd. & Prock Hill Rd. side taps were Lateral ETT in 2008.
15	19U1	Project #487224 completed in 2008. Three backbone areas (Maple St, Bantam Lake Rd. & Bantam Rd.) were Lateral ETT Trimmed in 2008.
16	22N3	TDRP Project #452222 completed in 2007. Lateral SMT and Maintenance Backbone ETT performed in 2007.
17	32R1	Project #452252 scheduled for 2009. Scheduled for trimming in 2009.
18	26E8	Circuit will be studied in 2009.
19	4L06	Project #452243 completed in 2008. Poor performance in 2008 primarily due to June '08 storm. Backbone and Lateral tree trimming performed in 2007.
20	25H1	Planned elimination of circuit under Project #476740 in 2010. Lateral SMT and Maintenance Backbone ETT performed in 2007.
21	3B07	Fall 2008, primary spreaders were installed between 3B06 and 3B07 to eliminate conductors slapping together within the R.O.W. where both circuits share the same pole via 4-over-2 construction. Substation project to upgrade buss protection relay scheduled for completion 2009.

STATUS OF PREVIOUS CORRECTIVE ACTION
(WORST CIRCUITS – ALL IDENTIFIED IN 3/31/06 TDRP)
AS OF 03/01/2009

Rank	Circuit	Action
22	11F13	Sectionalizing switches to be installed along backbone as part of 2008 PAR DR program. Babcock Hill Road reconductored with tree wire and installed cutouts under 2007 PAR DR program. Trimmed circuit in 2006. Lateral ETT planned for 2009. Will study circuit in 2009.
23	11M1	This circuit was eliminated under project #101188 and was completed in August, 2005.
24	15M3	Lateral SMT and Maintenance Backbone ETT performed in 2007. No further study.
25	17Y2	Project #103292 scheduled for 2009.
26	21J4	Poor performance in 2008 primarily due to June '08 storm. Six side taps were Lateral ETT in 2008. Huntington Ridge Side Tap - 4 or more addressed in 2008.
27	37J1	Project #101517 planned for 2010. Lateral SMT and Maintenance Backbone ETT performed in 2007. Yelping Hill Rd. & Popple Swamp Rd. side taps were Lateral ETT in 2008. DR reconductoring scheduled for Yelping Hill Tap in 2009.
28	4C16	Projects #101310 and #476814 were completed in 2004. On 3/17/04 a substation outage at Southington 4C accounted for the majority of customer minutes interrupted for this circuit. No need for further study.
29	15M1	Project #452227 completed in 2006. 15M1 scheduled for trimming in 2009. Several DR improvements done over the last several years in "troubled" areas.
30	32R2	Project #452248 scheduled for 2009.
31	5L04	Was studied in 2005. No cost-justifiable improvements identified. Lateral SMT and Maintenance Backbone ETT performed in 2008. Poor performance in 2008 primarily due to June '08 storm. Backbone and Lateral tree trimming performed in 2008.
32	11F12	Sectionalizing switches will be installed along the backbone in 2009 under the PAR DR program. Tree trimming complete in 2007. Will study circuit in 2009.
33	124	One large outage related to July 2004 Van Dyke 12 station interruption. No further study required.
34	16Q7	CFM Project #476826 completed in 2008.
35	22N1	Lateral SMT and Maintenance Backbone ETT performed in 2008. Additional trimming scheduled for 2009.
36	4H05	Project #476822 was completed in 2005. Project #476769 completed in 2004. Circuit to be eliminated in 2009.
37	5R7	Lateral SMT and Maintenance Backbone ETT performed in 2008. Additional trimming planned for 2009.
38	11C13	Project #101989 completed in 2008. Tree Trimmed in 2008.
39	22J1	Project #452218 was completed in 2006. Lateral SMT and Maintenance Backbone ETT performed in 2007. Performance has since improved, no further study required.
40	4L09	Project #452223 completed in 2008. Lateral SMT and Maintenance Backbone ETT performed in 2008. Poor performance in 2008 primarily due to June '08 storm. River Rd. & White Hollow Rd. side taps were Lateral ETT in 2008.
41	14A1	Lateral SMT and Maintenance Backbone ETT performed on this circuit in 2008.

STATUS OF PREVIOUS CORRECTIVE ACTION
(WORST CIRCUITS – ALL IDENTIFIED IN 3/31/06 TDRP)
AS OF 03/01/2009

Rank	Circuit	Action
42	28Q1	Project #496901 completed in 2006. Circuit is part of new 32P3.
43	21K8	Lateral SMT and Maintenance Backbone ETT performed in 2007. Additional trimming performed in 2008. DR improvements planned for 2009.
44	21M3	Project #476693 planned for 2010.
45	22E12	Project #452237 planned for 2009.
46	3B05	Project #102102B completed in 2008. Additional tie point installed.
47	48C7	Project #476673 was completed in 2003.
48	1C06	Study completed in 2007. Project #103212 completed in 2008. Direct buried cable rejuvenation completed in two URD developments in 2007.
49	11A50	Project #101699 planned for completion in 2009. Plumtree 30G3 will be energized, which will absorb majority of 11A50. CFM Project #476771 planned for 2010.
50	12J4	Studied in 2006. Circuit trimmed in 2006. Project #452241 completed in 2008. Will study circuit in 2009.
51	20M2	Lateral SMT and Maintenance Backbone ETT performed in 2007. This circuit will be eliminated upon completion of the new Wilton 35A Bulk Substation in 2009.
52	1809	Circuit was eliminated in 2007 as part of Hartford 2 phase project.
53	12A12	Project #452244 completed in 2008.
54	12J5	Had many "3-or-mores" in 2008 that were resolved with tree trimming and annual work orders. Will study circuit in 2009.
55	12Y8	Project #476821 will be completed in 2010. Lateral ETT scheduled for 2009.
56	15Q1	Project #103345 completed in 2009. Circuit eliminated, now 15Q7. Converted to 23KV.
57	21H8	Project #101335 completed in 2008. Trimming scheduled for 2009. Will study in 2009.
58	25B1	Project #494301 has an anticipated ISD of 2010.
59	30K12	Project #101305 was completed 12/05. Included reconductoring and a new loop scheme.
60	4R11	Project #452191 was completed in 2004. Circuit scheduled for trimming in 2009.
61	49S1	Project #452242 completed in 2008.
62	11S14	Project #452268 scheduled for 2009. Mid-cycle Backbone ETT performed in 2008.
63	13S10	Project #452236 planned for 2009.
64	22R4	Mid-cycle Backbone ETT performed in 2008.
65	4R18	Project #452204 completed in 2006.

STATUS OF PREVIOUS CORRECTIVE ACTION
(WORST CIRCUITS – ALL IDENTIFIED IN 3/31/06 TDRP)
AS OF 03/01/2009

Rank	Circuit	Action
66	12Y9	Lateral SMT and Maintenance Backbone ETT performed in 2007.
67	13K2	ETT Backbone/ Lateral done in 2007. Circuit will be supplied via new switchgear and transformer by the end of 2009.
68	20M1	This circuit has been eliminated with the completion of the Wilton 35A new bulk substation.
69	301B2	Performance of the 301B2 has improved in 2008. Project #476792 planned for 2010 to improve performance of source circuits 2N17 and 2N05. No further study required for 301B2.
70	31C2	Lateral SMT performed in 2008; additional trim work planned for 2009. An additional recloser was installed in 2008.
71	9S12	Project #476689 was completed in 2004.
72	22R2	Project #101335 completed in 2008. Will study in 2009.
73	27K3	Project #452205 was completed in 2006. Lateral SMT and Backbone ETT performed in 2007.
74	28A3	Project #476843 completed in 2008.
75	3B12	Project #101526 will install new getaways at a new S/S (Rood Ave, 24J) which will feed the existing 3B12 (new # 23J3). Full ETT was performed in 2008. Project # 101631 is still scheduled but needs re-eval due to new S/S coming on line. Project # 103372 will re-build a problematic 3000' ROW. 2008 backbone performance was much improved.
76	30R8	Reliability work completed in 2004. Circuit is scheduled for trimming in 2009. Numerous reliability improvements throughout the circuit are planned for completion in 2009.
77	11A74	Project #476837 completed in 2007.
78	11R1	Project # 452216 scheduled for completion in 2009.
79	11S15	Lateral SMT and Maintenance Backbone ETT performed on this circuit in 2008. Project #452173 completed in 2003. DR reconductoring projects on Judge Ln. & Woodcreek Rd. side taps were completed in 2008. Lateral ETT performed on Stoddard Rd. in 2008. DR reconductoring project on Paddy Hollow Rd. side tap is scheduled for 2009.
80	12N16	Project # 476766A scheduled to start construction in 2010.
81	5R3	PAR DR (Backbone Sectionalizing) completed in 2006.
82	11C14	Project #476871 completed in 2007. Circuit is scheduled for trimming in 2009. Studied in 2008.
83	11Y7	Project #101745 completed in 2007.
84	13K3	Project #103180 in-progress as of 2-24-09 with an in-service date of 6-1-09 will establish auto-loop with 32P3 out of Shunock 32P.
85	14H2	New reclosers will be installed in 2009 under the DR Annual Project. This circuit is scheduled to be trimmed in 2010.
86	4H03	Source problems corrected and additional sectionalizing completed. Circuit to be eliminated in 2009.

STATUS OF PREVIOUS CORRECTIVE ACTION
(WORST CIRCUITS – ALL IDENTIFIED IN 3/31/06 TDRP)
AS OF 03/01/2009

Rank	Circuit	Action
87	4L08	Lateral SMT and Maintenance Backbone ETT performed in 2006. Lateral ETT scheduled for 2009. Poor performance in 2008 primarily due to June '08 storm. Taconic Rd. & Undermountain Rd side taps were Lateral ETT in 2008.
88	11R51	Spacer cable was repaired on the ROW in 2006.
89	15Q2	Project #103345 completed in 2009. Circuit eliminated, now 15Q7. Converted to 23KV.
90	16Q1	Majority of outages were tree related. Backbone ETT was performed in 2007, Lateral ETT was performed in 2008.
91	24A14	Project #452178 was completed in 2004. Lateral SMT and Maintenance Backbone ETT performed in 2007. Additional trimming planned for 2009.
92	26E9	Project #101757 completed in 2008. Annual project #5D710207/5D710224 completed in 2008. Project #101377 to be completed in 2010. Lateral SMT and Maintenance Backbone ETT performed in 2008.
93	28Q2	Project #452074 completed in 1999. Project #496901 completed in 2006.
94	3A03	Project #476747 completed in 2004. Future new circuit 3A11 will reduce exposure (planned ISD 12/31/2009). Circuit maintenance tree trimming completed on this circuit in 2006.
95	3A04	Studied under 2002 TDRP. Project #452199 replaced 6,000 ft. of getaway cable in 2003. Additional auto loop sectionalizing installed in February 2003. Additional fusing, tree trimming and backbone rehab started in late 2003 and completed in 2004. Future new circuit 3A11 will reduce exposure (planned ISD 12/31/2009).
96	3B13	Lateral SMT and Maintenance Backbone ETT performed in 2008. Additional trimming planned for 2009.
97	300J4	UG circuit. Had source issues. Source issues addressed. No plans to study further.
98	32P3	Project #496901was completed in 2006. Circuit is scheduled for trimming in 2009.
99	5R2	SMT completed in 2005/2006.
100	5R4	Project #452225 completed in 2006.

APPENDIX 19

Calendar Year Indices

This appendix was eliminated based on the changes adopted in the DPUC letter dated January 26, 1994.

APPENDIX 20

Percent Miles Trimmed

CONNECTICUT LIGHT & POWER
2008
PERCENT MILES TRIMMED

DIVISION	SCHEDULED MAINTENANCE TRIMMING 2008	ENHANCED TREE TRIMMING 2008	TOTAL MILES TRIMMED 2008	TOTAL CIRCUIT MILES	PERCENT TRIMMED
CENTRAL	451	112	563	3,225	17.5
EASTERN	969	211	1,180	5,715	20.6
SOUTHERN	678	93	771	3,703	20.8
WESTERN	594	101	695	4,304	16.1
TOTAL CL&P	2,692	517	3,209	16,947	18.9

APPENDIX 21

Tree Trimming Denials

CONNECTICUT LIGHT & POWER
2008
TREE TRIMMING DENIALS

DIVISIONS	DENIALS
Central	32
Eastern	142
Southern	111
Western	103
CL&P TOTAL	388

APPENDIX 22

Glossary Of Terms

GLOSSARY OF TERMS

- ***Aerial Cable*** - A conductor system in which each conductor is covered with a fully insulated covering. The cables are supported from a wire suspended on poles. Aerial cable is often installed in areas of heavy trees where other systems such as tree-wire would not be adequate.

- ***ASAI (Average Service Availability Index)*** - The ratio of the total number of customer hours that service was available during a year to the total customer hours demanded. Customer hours demanded are determined as the twelve-month average number of customers served multiplied by 8760 hours. This index is more useful for groups or individuals who are concerned with the broadest measurements and responsibilities.

  ASAI = customer hours of available service/customer hours demanded.

- ***Autoloop*** - A scheme where two or more distribution circuits are tied together with a normally-open tie recloser capable of automatically restoring service to portions of a feeder that were de-energized due to an outage.

- ***Backbone Feeder*** - The portion of the three-phase distribution circuit beginning at the substation and ending at transitions to single-or multi-phase circuitry protected by single phase devices.

- ***CAIDI (Customer Average Interruption Duration Index)*** - The average service restoration time or the average interruption duration for those customers interrupted during a year. It is determined by dividing the sum of all customer interruption durations by the total number of customers interrupted in a year.

  CAIDI = sum of customer interruption durations/total number of customer interruptions.

- ***Circuit Breaker*** - A device which is utilized to interrupt the flow of current under normal or abnormal conditions. Circuit breakers are normally intended to operate infrequently and are operated by an external set of controls.

- ***Covered Conductor*** - A conductor encased within material of composition or thickness that is not recognized by the National Electrical Safety Code as electrical insulation.

- ***Distribution Circuit*** - An electric line which operates at voltage levels below 35,000 volts and from which the customer's ultimate utilization voltage *(e.g., 120 V, 240 V, 480 V)* is directly provided through a distribution transformer.

- ***Fault*** - A short circuit which occurs on an electric system. A fault is an abnormal occurrence which may be a result of a failed piece of equipment, a foreign object such as a tree limb contacting wires, or wires slapping together due to weather conditions such as high winds, snow, or ice.

- ***Feedback*** - The return to a point of origin of evaluative or corrective information about an action or process.

- ***Fuse*** - A device which opens when overheated by the passage of abnormally high current such as a short circuit.

- ***Interruption*** - Loss of electric service to one or more customers for a period of time. See"Outage".

- ***KVA - Kilo-Volt-Amperes*** - A measure of electrical capacity equal to the product of the voltage multiplied by the ampere divided by 1,000. Electrical equipment capacities are sometimes stated in kVA.

- ***Loop Feed*** - A number of power lines forming a closed loop or ring. There are two or more routes by which any point on a loop fed circuit can receive energy.

- ***Momentary Interruption*** - An interruption which results in a loss of electric service for a brief period of time. Service is usually restored by devices which operate automatically, often in less than one second.

- ***Network Primary System*** - An electrical system in which the high voltage *(i.e., 15,000 volt)* primaries of transformers are loop fed by two or more circuits. *(Also see loop feed)*

- ***Network Secondary System*** - An electrical system in which the low voltage (i.e. 120/208, 277/480 volt) secondaries of transformers are connected to a common network of wires for supplying light and power directly to consumers. *(Also see loop feed)*

- ***Non-Tree Wire*** - Bare wire or any other wire not intended to withstand abrasion to tree contact.

- ***Outage*** - An extended interruption *(greater than 5 minutes)* of service to one or more customers which usually requires human intervention to restore electric service. See Appendix 16 for definitions of the causes of interruptions used in this report.

- ***PAR*** - Pro-active Reliability. A CL&P reliability improvement program.

- ***Phase Spacing*** - The distance between the current carrying conductors in a power delivery system.

- ***Primary (Distribution) Feeder*** - A primary voltage distribution circuit, usually considered to be between a substation or point of supply and the distribution transformers, which supply lower voltage distribution circuits or consumer service circuits.

- ***Radial System*** - An electrical distribution or transmission system which provides only one path for power flow. It is generally considered to be the least reliable system but is also the least costly as compared to a network system.

- ***Recloser*** - A device which isolates a short circuited component from its voltage source. A recloser, unlike a fuse, may restore voltage one or more times to determine if the short circuit has cleared.

- ***Reclosing*** - A technique used with circuit breakers and reclosers where voltage is interrupted to allow a short circuit to clear *(i.e., a tree branch to fall to the ground)* and then voltage is restored to determine if the short circuit has cleared.

- ***Reliability*** - The degree to which electric service is supplied continuously and uninterrupted.

- ***Rights-of-way*** - The land over which a utility line, railroad, or roadway passes. Utility facilities may also be buried in a right-of-way.

- *SAIDI (System Average Interruption Duration Index)* - The average interruption duration in minutes per customer served. It is determined by dividing the sum of all customer interruption durations during a year by the number of customers served.

  SAIDI = sum of customer interruption durations/total number of customers.

- *SAIFI (System Average Interruption Frequency Index) (NU)* - The average number of times that a system customer is interrupted during a year. It is computed by dividing the total number of customers interrupted in a year by the average number of customers served during the year. A customer interruption is considered to be one interruption to one customer.

  SAIFI = sum of customer interruptions/total number of customers.

- *SCADA* - An acronym for Supervisory Control And Data Acquisition, which is a system for controlling and gathering data on a utility system.

- ***Sectionalizer*** - Similar to a switch. The device does not have the capability to isolate electric devices under short circuit conditions and must rely on some other devices such as a recloser or breaker to interrupt the short circuit before opening to isolate the short circuit.

- ***Service Drop*** - The overhead conductors between the electric supply, such as the last pole, and the building or structure being served.

- ***Side Tap*** - A single or multi-phase portion of a distribution circuit that is supplied by the backbone feeder and protected by single-phase devices.

- ***Spacer Cable (NU)*** - A type of electric supply line construction consisting of an assembly of one or more covered conductors, separated from each other and supported from a messenger by insulating spacers.

- ***Spacer Cable (UI)*** - A conductor system in which partially insulated conductors are supported by a wire suspended by poles.

- ***Storm (DPUC)*** - A major storm for outage reporting purposes occurs when the number of trouble spots on a particular day exceeds the 98.5% exclusion threshold. This threshold, which is established based upon the most recent four years of interruption data, can be applied at the Regional or the Company level. All reliability data associated with interruptions beginning on that qualifying day would be excluded, even if the interruptions extend into subsequent days.

- ***Subtransmission (UI)*** - A functional classification relating to that portion of utility plant used for the purpose of distributing electric energy in bulk from convenient points of the transmission system to the distribution system and in certain cases to ultimate consumers.

- ***Switch*** - A device that can open or close an electrical circuit. Some switches are able to interrupt load current (loadbreak) while others can only be operated with the circuit de-energized (non-loadbreak).

- ***Thermovision (NU & UI)*** - A trade name for a system of infrared cameras and sensors used to detect heat. On an electric utility system, excessive heating of hardware is often a sign of impending failure due to loose connectors or other poor connections.

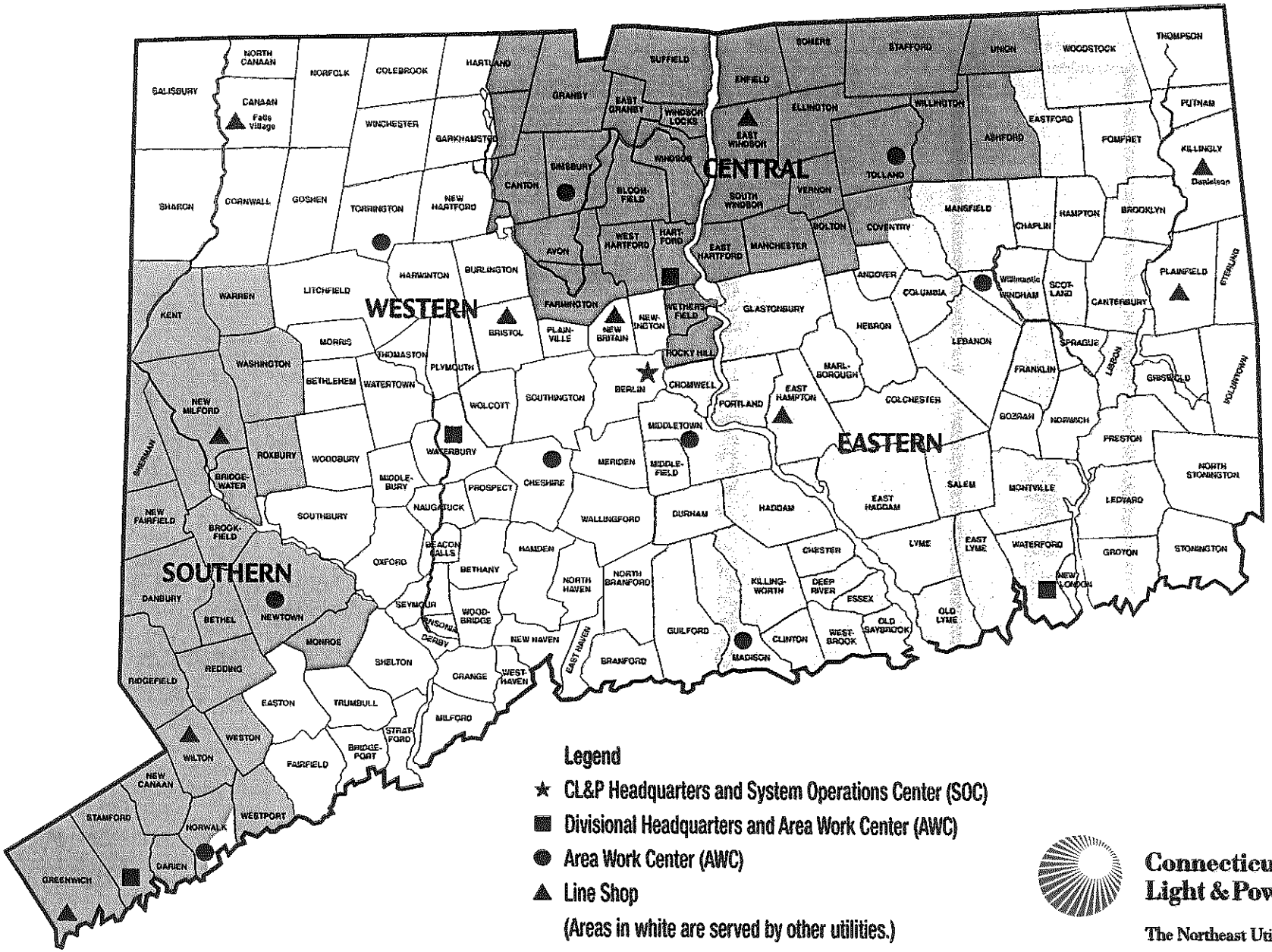
- ***Transformer (Line) (UI)*** - An electromagnetic device for changing the voltage of alternating current electricity which has been classified as distribution equipment.

- ***Tree-Wire (NU)*** - A conductor with an abrasion-resistant outer covering, usually nonmetallic, and intended for use on overhead lines passing through trees *(See Covered Conductor)*

APPENDIX 23

Service Territory Map

CL&P Divisions and Facility Locations



Legend

- ★ CL&P Headquarters and System Operations Center (SOC)
- ■ Divisional Headquarters and Area Work Center (AWC)
- ● Area Work Center (AWC)
- ▲ Line Shop

(Areas in white are served by other utilities.)

Connecticut Light & Power

The Northeast Utilities System

Rev. 1/23/04

APPENDIX 24

Historical Performance

This appendix was eliminated based on the changes adopted in the DPUC letter dated January 26, 1994.

APPENDIX 25

Reliability Goals

This appendix was eliminated based on the changes adopted in the DPUC letter dated January 26, 1994.

APPENDIX 26

Reliability Performance Against Goals

REPORT NUMBER: APPENDIX 26

REPORT NAME: RELIABILITY PERFORMANCE AGAINST GOALS.

CRITERIA: ALL MAJOR STORMS EXCLUDED

CUSTOMER COUNT GREATER THAN 1

RELIABILITY PERFORMANCE AGAINST GOALS

DPUC DOCKET NO. 86-12-03
DATA REQUEST DPUC-ORDER APPENDIX 26

		GOAL 2008	ACTUAL 2008	GOAL 2007	ACTUAL 2007	GOAL 2006	ACTUAL 2006	GOAL 2005	ACTUAL 2005	GOAL 2004	ACTUAL 2004
C L & P SYSTEM	SAIDI (MINUTES)	127.74	117	132.00	120	119.70	132	111	129	111	139
	SAIFI	1.040	.91	1.057	.98	0.938	1.02	0.87	.98	0.88	.91
	CAIDI (MINUTES)	122.85	127	124.90	122	127.60	129	127.5	131	127.5	152
CENTRAL	SAIDI (MINUTES)	121.37	111	125.41	98	101.90	135	98.00	129	97.96	103
	SAIFI	0.955	.75	0.970	.81	0.801	.97	0.71	.95	0.72	.66
	CAIDI (MINUTES)	127.14	148	129.26	120	127.20	139	137.4	136	139.3	154
EASTERN	SAIDI (MINUTES)	137.77	124	142.36	135	132.80	144	112.90	141	112.92	139
	SAIFI	1.238	.98	1.258	1.10	1.124	1.16	1.00	1.17	1.01	1.06
	CAIDI (MINUTES)	111.29	127	113.14	122	118.20	124	112.7	120	110.6	131
SOUTHERN	SAIDI (MINUTES)	135.84	148	140.37	130	144.70	156	135.40	137	135.45	176
	SAIFI	1.044	1.19	1.061	1.05	1.023	1.26	1.02	.97	1.03	1.13
	CAIDI (MINUTES)	130.10	124	132.27	124	141.50	123	132.4	141	129.0	156
WESTERN	SAIDI (MINUTES)	118.81	92	122.78	119	105.90	100	103.10	112	103.09	146
	SAIFI	0.943	.80	0.959	.97	0.840	.75	0.79	.85	0.80	.84
	CAIDI (MINUTES)	125.93	114	128.03	121	126.10	133	130.3	132	129.7	172

****
***** END OF REPORT *****
****

CL&P'S FOUR DIVISIONAL STRUCTURE WAS ESTABLISHED IN 2004. RELIABILITY GOALS BY FOUR DIVISIONS WERE NOT ESTABLISHED PRIOR TO 2004.

APPENDIX 27

2008 Inspection and Maintenance Report

The Connecticut Light and Power Company Inspection and Maintenance System Report									
January 1 Through December 31, 2008									
System Report						Number of scheduled and completed inspections, tests, or major maintenances			
Ref. No	I&M Program Description	Group Responsible	Procedure Number	Unit Description	Total Number of Units	Scheduled for 2008	Completed by 12/31/2008	% completed by 12/31/2008	Notes
1	DB Facilities	Operations	TD804	Switch/Transformer	61,989	13,596	13,728	101%	1
2	Capacitor Banks	Maintenance	TD832	Capacitor Bank	1,865	1,865	3,433	184%	4
3	Automatic Voltage Regulators	Maintenance	SS14	Regulator	822	1,644	1715	104%	4
4	Reclosers	Maintenance	SS6 - Bi-Month Inspection	Recloser	2,269 (ALL)	9,002	10,449	116%	2, 4
			SS6 - Major Maintenance		1,512 (OIL)	247	302	122%	3, 4
5	UG System Network Transformers	Maintenance	U1 - Routine Inspection	Transformer/Protector	764	764	494	65%	4, 5
			U1 - Major Maintenance		764	382	438	115%	4
6	UG Plant	Operations	U2	UG Structure	14,352	3,835	4,033	105%	
7	Subway-Street Lights	Operations	U5	Pole	5,108	1,241	1,867	150%	
8	Infrared Inspection	Maintenance	Infrared Survey Program	Circuit	966	966	966	100%	4

NOTES

1 - Number of units to be done in a given year may vary from the quantities called for in the Frequency Table in Appendix #4 of CL&P's Line Maintenance Plan due to anticipated changes to the units of equipment in service at any time due to upgrades, conversions, retirements, and other adjustments. Total completed includes inspections completed as part of the Cable Cure/ Cable Rejuvenation work.

2 - Electronic reclosers inspected Bi-Monthly, hydraulic reclosers quarterly. Reclosers with DSCADA are inspected once per year.

3 - With regard to reclosers, CL&P is transitioning from a years-based major maintenance cycle to an operational-based maintenance cycle (i.e. in the future these units will be maintained based upon their number of operations, fault duty, or diagnostic tests rather than once every six years).

4 - Work performed by a combination of CL&P and contractor crews depending on work load and available resources.

5 - In 2008, the Company temporarily suspended its annual inspection cycle to eliminate energized oil tests to comply with an interim practice in accordance with a settlement agreement with OSHA. This practice will continue in 2009. The number reported includes only the inspections conducted as part of U1 - Major Maintenance.

APPENDIX 28

2008 Closed Claims

2008 CL&P VOLTAGE IRREGULARITY REPORT
EVENTS ON A CIRCUIT RESULTING IN 10 OR MORE CLAIMS

nt Date	Town	Circuit	# of Claims	Amount Paid by CL&P	Event Description
)/08	Kent	23R1	13	$7,319.01	CL&P crew incorrectly connected step transformer.

: of the thirteen claimants did not pursue their claim for damages with CL&P.