The United Illuminating Company Five Year Outage by Cause Summary 2004 – 2008 - Customer Interruptions

Average Number of Customers Served	System Totals	Major Storm	Unknown	EQP Fail TRANS	EQP Fail SUB	EQP Fail UG Sys	EQP Fail XFMR	EQP Fail DB Sys	EQP Fail OH Sys	Vehicle Accident	Tree Related	Overload	Other	Lightning	Foreign Object	Employee Error	Customer Caused	Animal/Bird	Planned	Distribution Related	EQP Fail TRANS	Power Supply	Transmission Related	Causes	
320	1,968	264	69	0	0	19	74	21	252	82	356	22	26	108	5	11	26	467	166		0	0		Number of Interrupts	2008
320,770	337,095	92,871	5,277	0	0	14,129	1,506	2,687	76,421	18,192	58,471	1,172	13,463	24,413	2,563	7,079	1,386	11,243	6,222		0	0		Number of Customers Interrupted	2008 Totals
319	1,361	34	71	0	0	13	74	15	208	61	276	28	18	53	7	8	19	458	18		0	0		Number of Interrupts	2007
319,649	225,141	3,468	9,497	0	0	12,781	1,926	2,518	51,673	18,751	43,476	695	1,438	20,885	81	28,271	260	28,924	497		0	0		Number of Customers Interrupted	2007 Totals
318	2,127	691	72	0	2	11	76	19	241	58	342	44	13	42	4	12	13	453	34		0	0		Number of Interrupts	2006
318,187	337,295	123,531	7,592	0	8,911	9,488	2,421	1,327	67,992	17,205	41,580	678	1,252	8,801	1,538	4,169	2,224	26,830	11,756		0	0		Number of Customers Interrupted	2006 Totals
316	1,489	210	44	0	0	17	93	19	237	62	349	117	21	43	4	5	35	216	17		0	0	i e	Number of Interrupts	2005
316,993	284,063	43,988	7,674	0	0	10,939	2,323	408	78,981	11,251	45,680	2,173	7,079	32,413	1,019	6,298	11,223	19,259	3,355		0	0		Number of Customers Interrupted	2005 Totals
31.	1,119	46	35	0	0	22	102	12	236	66	251	32	11	43	7	9	18	213	16		0	0		Number of Interrupts	2004
314,537	210,802	9,558	2,402	0	0	12,322	5,771	2,342	82,365	14,307	24,337	608	1,496	15,397	2,039	8,890	5,536	20,607	2,825		0	0		Number of Customers Interrupted	2004 Totals

Source: Appendix 1 of the Company's report, "The Reliability and Performance of The United Illuminating Company's Transmission and Distribution System for 2008" dated March 31, 2009, filed in the Department of Public Utility Control Docket 86-12-03.

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The United Illuminating Company Five Year Outage by Cause Summary 2004 - 2008 - Customer Minutes Interrupted

Average Number of	System Totals 1,968		Unknown 69	EQP Fail SUB 0	EQP Fail UG Sys 19	EQP Fail XFMR 74	EQP Fail DB Sys 21	EQP Fail OH Sys 252	Vehicle Accident 82	Tree Related 356	Overload 22	Other 26	Lightning 108	Foreign Object 5	Employee Error 11	Customer Caused 26	Animal/Bird 467	Planned 166	Distribution Related	EQP Fail TRANS	Power Supply	Transmission Related	Causes Number of Interrupts	21
320,770	3 46,380,348	1 22,538,506	555,443	0	1,061,514	276,944	728,276		2,517,657	6,649,393	2 125,499	606,275	3,619,452	5 112,390	1 753,202	6 91,452	7 821,762	6 494,164		0 0	0 0		Customer Minutes S Interrupted	2008 Totals
31	1,361	34	71	0	13	74	15	208	61	276	28	18	53	7	8	19	458	18		0	0		Number of Interrupts	2007
319,649	23,319,038	1,326,960	1,082,839	0	888,318	341,144	368,957	4,647,910	2,124,131	6,132,050	72,857	77,152	2,766,678	4,298	488,059	23,365	2,897,327	76,993		0	0		Customer Minutes Interrupted	2007 Totals
31	2,127	691	72	2	11	76	19	241	58	342	44	13	42	4	12	13	453	34		0	0		Number of Interrupts	2000
318,187	56,472,994	38,008,286	854,239	190,396	563,514	300,577	345,938	5,394,226	1,958,782	4,043,057	88,150	110,957	1,044,217	92,034	323,976	309,804	1,728,437	1,116,404		0	0		Customer Minutes Interrupted	2006 Totals
310	1,489	210	44	0	17	93	19	237	62	349	117	21	43	4	5	35	216	17		0	0		Number of Interrupts	2005
316, 993	31,510,844	9,359,902	956,243	0	448,083	466,581	146,827	5,864,386	1,095,876	5,888,447	254,786	320,023	3,355,365	68,293	649,680	836,137	1,403,268	396,947		0	0		Customer Minutes Interrupted	2005 Totals
31	1,119	46	35	0	22	102	12	236	66	251	32	11	43	7	9	18	213	16		0	0		Number of Interrupts	2004
314, 537	23,257,306	3,052,623	299,618	0	970,381	672,283	237,843	8,108,765	1,701,190	2,756,677	65,368	172,525	2,071,747	137,948	512,403	474,315	1,685,686	337,934		0	0		Customer Minutes Interrupted	2004 Totals

Source: Appendix 1 of the Company's report, "The Reliability and Performance of The United Illuminating Company's Transmission and Distribution System for 2008" dated March 31, 2009, filed in the Department of Public Utility Control Docket 86-12-03.

The table below defines the causes of outages in the tables above:

Common Title	Definition								
A. Forced Transmission ar	nd Power Supply								
Power supply	Outages caused by the operation of the system in conjunction with other companies such as ISO-NE imposed load shedding or loss of an external transmission line supplying the company.								
B. Scheduled or Pre-Arran	ged Outages								
Planned	Intentionally de-energizing facilities serving customers for the purpose of apparatus change out, conversion, maintenance, relocation/extension, permanent repair, or customer request.								
C. Major Storm-Related O	utages								
Storm	In March 1995, the DPUC approved a new major storm definition, which is based on a statistical analysis of the most recent four calendar years of reliability data. Under the new definition, a major storm will be declared when the number of restoration steps exceeds the 98.5 percentile of all days in the most recent four years. All reliability data associated with interruptions beginning on that qualifying day would be excluded, even if the interruptions extend into subsequent days.								
D. Customer-Caused Outa	ges								
Customer owned	Any interruption caused by customer-owned equipment failure or customer operation.								
E. All Other Outages: Tran	smission and Distribution								
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.								
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, customerfelled 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.								
Other	Any interruption for which the cause is known but not covered above such as fire, flood, vandalism, or intentional de-energizing to protect crew/public.								
Equipment Failure: OH Conductor/Cable System	Any interruption caused by the failure of a component of the OH Conductor/Cable System.								
Equipment Failure: UG Cable System	Any interruption caused by the failure of a component of the UG 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.								

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Common Title	Definition
Equipment Failure: Transformers	Any interruption caused by the failure of a distribution transformer.
Equipment Failure: Other	Any interruption caused by the failure of a component of the distribution system not covered above.
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.
Unknown	Any interruption caused by 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.

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