



2006
Qualifying Storm Events

February 10, 2006

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Event Description

Date of event

February 10, 2006

Event Type

This was a short duration wind storm. Sustained easterly winds of 30 MPH with gusts to 40 MPH began just after 1:00 a.m. on Friday, February 10th, 2006.

Service Areas Affected

This windstorm primarily impacted the southeastern portion of King County.

Number of Customers Affected

Approximately 20,000 electric service customers lost power during the event.

Summary of System Impacts

Total Number of Outages	131
Distribution Circuits Totally Out	7
Distribution Circuits Partially Out	124
Transmission Circuits Affected	1
Substations Totally Off-line	0

Mobilization Summary

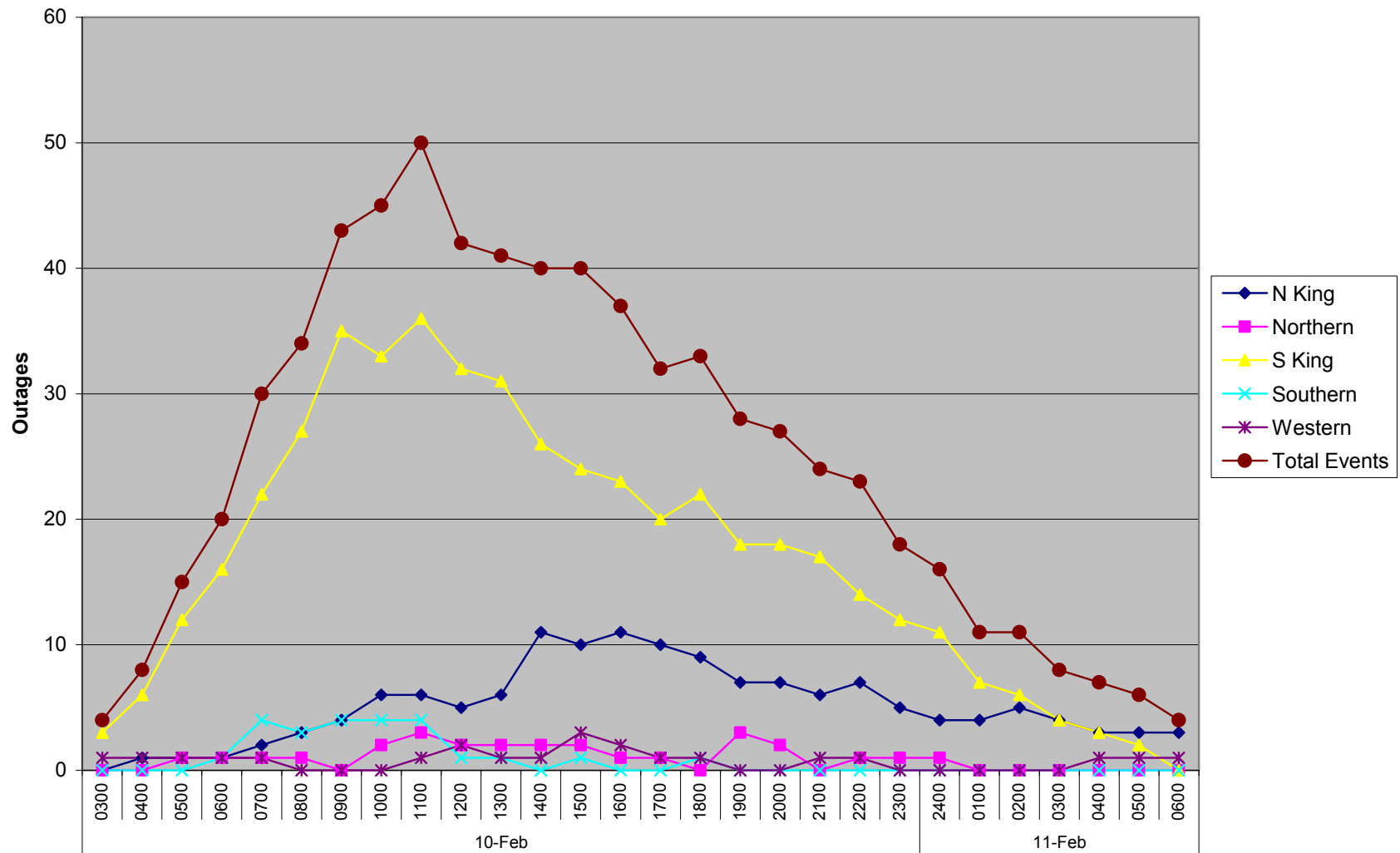
Operating bases

Base	Date Opened	Time Opened	Date Closed	Time Closed
S King	2/10/06	05:00	2/11/06	03:30

Emergency Operations Center

EOC	Date Opened	Time Opened	Date Closed	Time Closed
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Outage Events - February 10, 2006



Major Event Day – Qualification

IEEE 1366 Method

IEEE 1366 was established to present a set of terms and definitions which can be used to foster uniformity in the development of distribution service reliability indices, to identify factors which affect the indices, and to aid in consistent reporting practices among utilities. Also, it provides guidance for new personnel in the reliability area, and tools for internal as well as external comparisons. The Major Event Day definition was created as part of IEEE 1366 to allow for consistent calculation of reliability metrics between utilities, and enable more valid comparisons with other utility reliability metrics.

IEEE Major Event Day Calculation (2.5 BETA METHOD)

1. A threshold on daily SAIDI is computed once a year, following year end.
2. Assemble the 5 most recent years of historical values of SAIDI/day.
3. Discard any days in the data set that has a SAIDI/day of zero.
4. Find the natural logarithm of each value in the data set.
5. Compute the average Alpha and the standard deviation (Beta) of the natural logarithms computed in step 3.
6. Compute the threshold Tmed where $Tmed = \exp(\text{Alpha} + 2.5 * \text{Beta})$
7. Any day in the next year with SAIDI > Tmed is a major event day.

Puget Sound Energy's Major Event Threshold for 2006: 4.97 Minutes

Qualified Events - 2006

Current Event – Calculation Detail

Event Date	Total Customer Minutes	Average Customer Count	Daily SAIDI – Customer Minutes / Customer Count
02/10/2006	8,571,963	1,027,906	8.34

Cumulative list of events that have qualified

Date(s)	T-med Score	O&M – Deferrable Accumulation
1/1/2006	5.35	\$242,708
1/31/2006	11.19	\$653,176
2/4/2006	161.65	\$6,104,116
2/10/2006	8.34	\$0

Event Restoration – Cost Summary

Restoration Cost Detail by Qualifying Event

Date	Qualified Events Deferred Account	Capital	C&D Costs Recoverable from Direct Billings (Costs Not Yet Billed)	O&M – Not Deferrable	O&M – Deferrable Accumulation	Total O&M	Total
1/1/2006	\$0	\$0	\$0	\$23,995	\$242,708	\$266,703	\$266,703
1/31/2006	\$0	\$70,613	\$0	\$35,780	\$653,176	\$688,956	\$759,569
2/4/2006	\$2,853,981	\$311,579	\$0	\$395,638	\$6,104,116	\$6,499,754	\$6,811,333
2/10/2006	\$468,301	\$110,144	\$0	\$17,139	\$0	\$17,139	\$127,283

YTD Storm Restoration Cost Detail – Through February 10, 2006

Qualified Events Deferred Account	Capital	C&D Costs Recoverable from Direct Billings (Costs Not Yet Billed)	O&M – Not Deferrable	O&M Deferrable Accumulation	Total O&M	Total
\$3,322,282	\$492,336	\$0	\$472,552	\$7,000,000	\$7,472,552	\$11,287,170

Qualifying Storm Event
February 10, 2006

Detail Documents

Restoration Cost Detail – Current Event

Detailed List of Distribution Circuits with Outages

Terms, Codes & Definitions Used on Detail Reports

Newsprint Media Coverage

Restoration Cost Detail – Current Event

Puget Sound Energy February 10, 2006 Storm Damage Repair Costs							
	Qualified Events Deferred Account	Capital	C&D Recoverable from Direct Billings (Costs Not Yet Billed)	O&M - Not Deferrable	O&M - Deferrable Accumulation	Total O&M	Total
Labor							
ST					\$5,206	\$5,206	\$5,206
OT		\$0			\$22,105	\$22,105	\$22,105
Total Labor	\$0	\$0	\$0	\$0	\$27,311	\$27,311	\$27,311
Labor OH					\$12,787	\$12,787	\$12,787
Materials		\$19,467			\$22,993	\$22,993	\$42,460
Contractors		\$74,311			\$398,843	\$398,843	\$473,154
Other Direct Charges					\$1,070	\$1,070	\$1,070
Fleet					\$5,297	\$5,297	\$5,297
Other Assessments		\$16,366		\$17,139	\$0	\$17,139	\$33,505
Deferred Expenses	\$468,301				(\$468,301)	(\$468,301)	\$0
	\$468,301	\$110,144	\$0	\$17,139	\$0	\$17,139	\$595,584

Detailed List of Distribution Circuits with Outages

Notification	Date	Time	Circuit	Area	Cause	Equipment	Cust Outs	Cust Mins
E090595942	2/10/2006	0:31:00	SOO-23	EBI	TF	OCO	449	98,215
E183416513	2/10/2006	0:34:00	PIP-23	EBI	TO	OSW	966	87,906
E962277363	2/10/2006	0:42:00	PIP-22	EBI	TO	OPO	298	394,068
E742356249	2/10/2006	0:51:00	NOR-23	EBD	EF	OTF	1	70
10619690	2/10/2006	1:03:00	LYN-23	EAA	TF	OCO	1	12
E576915941	2/10/2006	1:43:00	NBE-12	EBF	EF	OCN	1	112
E953570581	2/10/2006	1:46:00	GRI-16	ECC	TF	OTF	1	69
E985013997	2/10/2006	1:57:00	MVW-16	EBJ	TO	OFU	20	3,428
E421107624	2/10/2006	2:13:00	CAM-25	EBJ	TO	OSV	2	256
E645455946	2/10/2006	2:20:00	CUM-15	EBI	TO	OSV	1	78
E556472007	2/10/2006	2:57:00	PGA-12	ECE	TO	OCO	10	2,280
E971067621	2/10/2006	3:02:00	BDI-12	EBI	TO	OFU	787	574,510
E173441041	2/10/2006	3:22:00	NBE-16	EBF	TO	OCO	9	10,268
E818647578	2/10/2006	3:29:00	SOO-23	EBJ	TF	OCO	25	15,125
E003025934	2/10/2006	4:06:00	CUM-13	EBJ	TF	OCO	1	474
E692205761	2/10/2006	4:28:00	SOO-27	EBJ	TO	OCO	1,954	2,635,946
E807020311	2/10/2006	4:34:00	SEQ-16	EBJ	TO	OFU	67	4,824
E098048205	2/10/2006	4:44:00	SOO-25	EBI	TF	OCO	699	538,929
E393480405	2/10/2006	4:49:00	SOO-26	EBJ	TF	OCO	90	35,146
E552346426	2/10/2006	4:53:00	SOO-25	EBJ	TF	OCO	12	9,684
E950072178	2/10/2006	4:55:00	KEN-12	EAA	TF	OCO	12	2,352
E437844575	2/10/2006	5:12:00	LWS-14	EBI	TO	OCO	104	13,104
E732814271	2/10/2006	5:15:00	HOB-15	EBI	TF	OSV	4	600
E226642618	2/10/2006	5:17:00	DGR-15	ECA	TO	OCO	13	4,641
E650466552	2/10/2006	5:53:00	CAM-17	EBJ	TF	OCO	17	9,979
E177154072	2/10/2006	6:05:00	LWS-14	EBJ	TO	OCO	77	6,545
E284857649	2/10/2006	6:13:00	MHT-15	EBJ	TF	OFC	14	6,328
E730153357	2/10/2006	6:16:00	LWS-16	EBJ	TO	OFU	20	1,780
E554025033	2/10/2006	6:19:00	EDG-13	ECA	TF	OCO	22	1,232
E960460707	2/10/2006	6:24:00	LMD-15	EBJ	TO	OCO	2,236	225,836
E564003248	2/10/2006	6:37:00	MHT-17	EBJ	TF	OCO	6	1,338
E973237304	2/10/2006	6:47:00	569646-155587	ECA	TO	OCO	9	2,025
E720825235	2/10/2006	6:52:00	VAS-12	EBL	EF	USV	1	218
E200282184	2/10/2006	6:52:00	MIR-17	EBF	EF	OSV	1	308
E243754696	2/10/2006	6:55:00	GAR-13	ECA	TO	OCO	71	18,744
E075225920	2/10/2006	6:56:00	ENU-18	EBI	TF	OPI	24	10,176
E080885482	2/10/2006	7:07:00	VAS-12	EBL	TF	OSV	1	323
E463681752	2/10/2006	7:07:00	GWR-13	EBI	TF	OCO	988	647,868
E456402049	2/10/2006	7:10:00	SNQ-13	EBF	TO	OCO	101	103,783
E418817431	2/10/2006	7:11:00	HOB-16	EBI	TF	OCO	176	344,256
E947014664	2/10/2006	7:15:00	MVW-16	EBJ	TO	OFU	4	300
E778398771	2/10/2006	7:18:00	LWS-13	EBJ	TF	OCO	22	374
E066109747	2/10/2006	7:19:00	LWS-13	EBI	TO	OFU	152	2,432
E351447601	2/10/2006	7:26:00	WCA-16	EBJ	TF	OTF	3	462
E265839717	2/10/2006	7:28:00	PAN-14	EBJ	TF	OCO	22	8,074
E772137921	2/10/2006	7:29:00	PIP-25	EBI	TO	OCO	1,384	139,784
E618272947	2/10/2006	7:34:00	LWS-15	EBJ	TO	OCO	60	1,560
E729923764	2/10/2006	7:38:00	LMD-16	EBJ	TF	OSV	1	22
E619595073	2/10/2006	7:45:00	LWS-13	EBI	TO	OFU	10	20
E999927279	2/10/2006	8:02:00	BDI-16	EBI	TO	OCO	1,137	9,096
E250765051	2/10/2006	8:03:00	HOB-15	EBI	TF	OCO	206	145,642
E859038133	2/10/2006	8:17:00	SMR-23	ECA	EF	USV	1	128
E603866775	2/10/2006	8:21:00	OSC-25	EBI	TF	OTR	937	189,591
E027553533	2/10/2006	8:23:00	LWS-13	EBI	TO	OFU	5	235
10619583	2/10/2006	8:23:00	NBE-16	EBF	TO	OCO	2	554

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Notification	Date	Time	Circuit	Area	Cause	Equipment	Cust Outs	Cust Mins
E647513990	2/10/2006	8:30:00	LWS-14	EBI	TO	OFU	18	2,430
E986741332	2/10/2006	8:31:00	BDI-13	EBI	TF	OCO	407	203,093
E667821625	2/10/2006	8:33:00	LWS-16	EBJ	TF	OCO	12	4,884
E708433508	2/10/2006	8:44:00	LMD-15	EBJ	TO	OCO	2,236	114,036
E572834549	2/10/2006	8:47:00	ORC-13	EBJ	TF	OFC	90	13,320
E120546658	2/10/2006	8:58:00	CUM-15	EBI	TF	OFU	37	14,319
E158185239	2/10/2006	9:00:00	PIP-22	EBJ	TF	OPO	5	5,325
E996605364	2/10/2006	9:03:00	LMC-23	EBF	TF	OCO	6	720
E842111792	2/10/2006	9:20:00	MED-37	EBE	TO	OCO	1	65
E461482392	2/10/2006	9:30:00	ENU-16	EBI	TO	OJU	14	2,520
E544223788	2/10/2006	9:31:00	BRS-24	EAC	TF	OCO	126	12,556
E635864744	2/10/2006	9:39:00	CLV-16	EAD	UN	OSV	1	59
E134761055	2/10/2006	9:49:00	VIS-26	EAA	UN	OTF	2	168
E998932664	2/10/2006	10:00:00	LYO-15	EBJ	TF	OTF	7	1,155
E212605145	2/10/2006	10:04:00	GWR-16	EBI	TF	OCO	425	218,635
E866586755	2/10/2006	10:15:00	KWH-25	EBD	EF	USV	1	499
E430564831	2/10/2006	10:16:00	BLU-17	ECC	TF	OCN	1	104
E727002617	2/10/2006	10:16:00	OSC-26	EBI	TF	OSV	6	1,164
E429085994	2/10/2006	10:34:00	LYO-15	EBI	TF	OFU	2	292
E630393701	2/10/2006	10:39:00	RDO-16	EBJ	TF	OTF	1	51
E506347515	2/10/2006	10:47:00	HEM-15	ECA	EO	UPT	1	182
E342881493	2/10/2006	11:09:00	SLA-17	EAA	DU	UPC	1	257
E698917081	2/10/2006	11:19:00	FAL-13	EBF	TO	OCO	9	4,779
E662406678	2/10/2006	12:00:00	BDI-15	EBI	TF	OFU	20	3,000
E260709967	2/10/2006	12:09:00	CUM-13	EBI	TF	OCO	29	13,369
E520154823	2/10/2006	12:16:00	PCR-13	EBJ	TF	OCO	6	1,524
E600849540	2/10/2006	12:22:00	NOR-26	EBD	TF	OCO	15	1,995
E958091245	2/10/2006	12:29:00	LWS-14	EBI	TF	OJU	14	3,024
E190986517	2/10/2006	12:52:00	NUG-25	EAA	BA	OFU	1	95
E547005295	2/10/2006	13:04:00	ENU-16	EBI	TF	OTF	4	464
E897303087	2/10/2006	13:08:00	SOO-23	EBI	TF	USV	54	13,608
E116338004	2/10/2006	13:11:00	NBE-15	EBF	TO	OTR	3	879
E559274503	2/10/2006	13:21:00	PIN-27	EBF	EF	OCO	956	51,624
E730497456	2/10/2006	13:48:00	SWE-27	EBJ	TF	OTF	4	368
E227226533	2/10/2006	14:04:00	MIL-16	ECE	TO	OCO	6	1,728
E757371901	2/10/2006	14:13:00	LON-23	ECC	TF	OCO	120	12,448
E816190675	2/10/2006	15:01:00	NBE-13	EBF	TF	OCO	16	1,947
E174953173	2/10/2006	15:39:00	BDI-15	EBI	TF	OPI	9	2,304
E156707971	2/10/2006	15:48:00	LWS-14	EBJ	TF	OFU	206	49,852
E705646108	2/10/2006	16:02:00	LWS-16	EBJ	TF	OPI	14	5,502
E491413811	2/10/2006	16:10:00	CUM-15	EBI	CP	OPO	112	59,360
E431659118	2/10/2006	16:38:00	HOB-16	EBI	TF	OPO	77	53,592
E926318905	2/10/2006	16:53:00	SEQ-13	EBJ	TF	OTR	7	2,989
E608517690	2/10/2006	17:17:00	BUC-26	ECA	TF	OTF	1	60
E270398475	2/10/2006	17:18:00	LWS-14	EBI	TF	OTF	8	1,896
E133776251	2/10/2006	17:24:00	BDI-12	EBI	TO	UOT	787	1,333,965
E846812585	2/10/2006	17:40:00	SOO-25	EBI	TF	OFU	51	4,845
E115442885	2/10/2006	17:53:00	312856-167592	EBI	EF	UPC	1	17
E945693630	2/10/2006	18:00:00	HAN-13	EAA	TF	OTF	3	507
E342742914	2/10/2006	18:15:00	VIS-26	EAA	TF	OFU	15	1,695
E065998831	2/10/2006	18:19:00	PET-15	EAC	AO	OCN	2	115
E276964172	2/10/2006	19:09:00	SEQ-15	EBJ	TF	UTR	6	2,286
E604039168	2/10/2006	19:27:00	SOO-25	EBI	TF	OFU	19	2,147
E090959856	2/10/2006	19:55:00	LWS-14	EBJ	TF	OTF	9	720
E595092420	2/10/2006	19:57:00	CUM-13	EBI	TF	OFU	8	1,224
E140226936	2/10/2006	20:12:00	HOB-15	EBI	TF	OCO	65	8,970
E313960416	2/10/2006	20:17:00	VAS-12	EBL	FI	OJU	1	149
E609640841	2/10/2006	21:00:00	FAL-13	EBF	TF	OCO	21	2,707
E209288999	2/10/2006	21:48:00	CPV-12	EAD	EF	USV	1	152
E017884362	2/10/2006	22:00:00	INT-16	EBE	SO	UPC	22	15,290

Qualifying Storm Event
February 10, 2006

Notification	Date	Time	Circuit	Area	Cause	Equipment	Cust Outs	Cust Mins
E246365114	2/10/2006	22:00:00	MLK-13	EBE	SO	UPC	3	2,970
E944493352	2/10/2006	22:38:00	GRA-25	EBJ	TF	OTR	3	471
E853641509	2/10/2006	23:17:00	ENU-18	EBI	TF	UPT	1	382

Terms, Codes and Definitions Used on Detail Reports

Notification	[Notification Number] A number assigned by SAP, identifying the outage record
Date	The date of the outage
Time	The time of the outage
Circuit	[Reference Circuit] The circuit identifier for the affected circuit
F/LOC	[Functional Location] The grid number where the outage occurred. If the grid number is not available, the Reference Circuit identifier occupies this field
EQT NBR	[Equipment Number] A number used to tie the equipment involved in the outage to the related information in SAP. This number does not represent the physical number of the equipment

Area	[Maintenance Planner Group] A code representing the energy, region and service center	
	EAA – Bellingham	EBJ – South King
	EAB – Lynden	EBK – Southwest King
	EAC – Skagit	EBL – Vashon
	EAD – Whidbey	ECA – Puyallup
	EBD – Redmond	ECC – Olympia
	EBE – Factoria	ECD – Port Orchard
	EBF – Snoqualmie	ECE – Poulsbo
	EBI – Enumclaw	ECF – Port Townsend

Cause	Cause of Outage	
	AO – Accident Other	EF – Equipment Failure
	BA – Bird or Animal	EO – Electrical Overload
	CP – Car Pole	FI – Faulty Installation
	CR – Customer Request	TF – Tree Off Right-of-Way
	DU – Dig-up Underground	TO – Tree On Right-of-Way
	SO – Scheduled Outage	UN – Unknown

Equipment	Affected by, or involved in the outage	
	OCN – Connector	OSW – Overhead Switch
	OCO – Overhead Conductor	OTF – Overhead Transformer Fuse
	OCR – Crossarm	OTR – Overhead Transformer
	OFC – Overhead Cut-out	OUP – OH to UG Primary
	OFS – Overhead Fire Signal	OUS – OH to UG Secondary Service
	OFU – Fuse Link/OH Line Fuse	SBF – High-side Bank Fuse
	OGS – Span Guy	SCB – Power Circuit Breaker
	OHR – Overhead Recloser	UOT – Underground Outdoor Term
	OIN – Insulator	UPC – Underground Primary Cable
	OJU- Jump Wire	UPT – Padmount Transformer
	OPI – Overhead Pin Insulator	USV – Underground Service
	OPO – Pole	UTC – Underground Terminal Fuse
	OSV – Overhead Service	UTR – Submersible Transformer
	ORE – Regulator	

Codes, Definitions – Continued

CUST OUT	[Customer Out] The number of customers without power for any given outage record
CUST MIN	[Customer Minutes] The total number of minutes customers were without power for any given record
CODE	[Storm Code] An event descriptor
	NON – Non Storm / Normal Conditions
	WTH – Weather Related (eg: wind storm, showers, etc)
	MAJ – Major event

Newsprint Media Coverage

No printed media coverage for this event.