



2009 Qualifying Storm Events

November 5, 2009

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Event Description

Date of event

November 5, 2009

Event Type

Wind storm.

Service Areas Affected

This weather event affected primarily Whatcom, Skagit, Kitsap, Island and Jefferson Counties.

Number of Customers Affected

Approximately 48,800 customers were without power over the course of this outage event.

Summary of System Impacts

Total Number of Outages	237
Distribution Circuits Totally Out	14
Distribution Circuits Partially Out	223

Transmission Circuits Affected	10
Substations Totally Off-line	0

Mobilization Summary

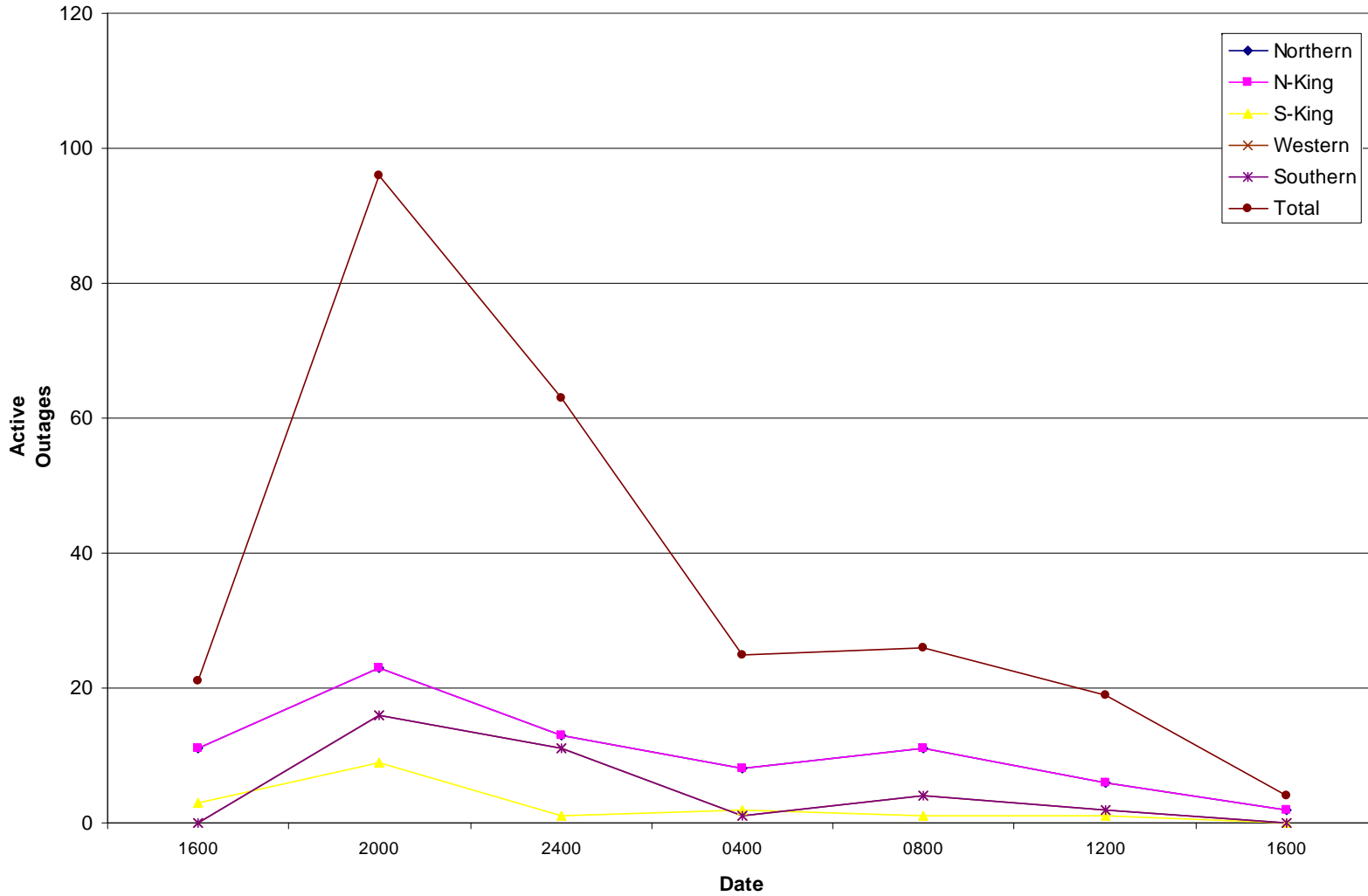
Operating Bases

Base	Date Opened	Time Opened	Date Closed	Time Closed
Whatcom	11/05/2009	15:30	11/06/2009	04:30
Skagit	11/05/2009	15:30	11/06/2009	04:30
Island	11/05/2009	15:30	11/06/2009	04:30
Kitsap	11/05/2009	19:30	11/06/2009	06:30
Jefferson	11/05/2009	19:30	11/06/2009	06:30
Vashon	11/05/2009	19:30	11/06/2009	06:30

Emergency Operations Center

EOC	Date Opened	Time Opened	Date Closed	Time Closed
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Outage Events - Nov 5, 2009 to Nov. 6, 2009



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 2009: 6.95 Minutes

Qualified Events - 2009

Current Event – Calculation Detail

Event Date	Total Customer Minutes	Average Customer Count	Daily SAIDI – Customer Minutes /Customer Count
01/04/2009	11,077,174	1,075,377	10.30
11/05/2009	7,626,819	1,078,555	7.07

Cumulative list of events that have qualified

Date(s)	T-med Score	O&M – Deferrable Accumulation
01/04/2009	10.30	\$588,391
11/05/2009	7.07	\$502,046

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
01/04/2009	\$588,391	\$27,264	\$0	\$36,325	\$588,391	\$624,716	\$651,981
11/05/2009	\$502,046	\$27,890	\$0	\$30,717	\$502,046	\$532,763	\$560,654

YTD Storm Restoration Cost Detail – Through Nov 6th, 2009

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
\$0	\$55,155	\$0	\$67,043	\$1,090,437	\$1,157,480	\$1,212,634

Qualifying Storm Event
November 5, 2009

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							
November 5, 2009 Storm Damage Repair Costs							
	Qualifying 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		\$ 59			\$ 2,645	\$2,645	\$2,703
OT					\$ 59,432	\$59,432	\$59,432
Total Labor	\$0	\$ 59	\$0	\$0	\$ 62,077	\$62,077	\$62,136
Labor OH		\$ 38			\$ 24,857	\$24,857	\$24,895
Materials		\$ 4,645			\$ 32,215	\$32,215	\$36,860
Contractors		\$ 20,171			\$ 366,546	\$366,546	\$386,717
Other Direct Charges					\$ 2,053	\$2,053	\$2,053
Fleet		\$ 7			\$ 14,045.31	\$14,045	\$14,052
Other Assessments		\$ 2,971		\$ 30,717	\$ 252	\$ 30,969	\$ 33,940.22
Deferred Expenses					\$0	\$0	\$ -
	\$0	\$27,890	\$0	\$30,717	\$ 502,046	\$532,763	\$560,654

IEEE-1366 - Detailed List of Distribution Circuits with Outages

Notification	Date	Time	Circuit	Area	Cause	Equipment	Cust Outs	Cust Mins
E776922907	11/5/2009	16:28:00	OLD-26	EAA	EF	OCO	55	20,515
E562599804	11/5/2009	16:38:00	KEN-12	EAA	TO	OCO	209	49,486
E652064277	11/5/2009	19:11:00	CHI-12	ECD	TF	OCO	17	6,970
E199581000	11/5/2009	22:15:00	WLS-16	EAC	TF	OCO	8	1,168
E657314902	11/5/2009	14:21:00	WLS-16	EAC	TO	OPI	30	12,450
E721489129	11/5/2009	20:58:00	SKE-26	ECE	TO	OCO	6	2,118
E020685455	11/5/2009	19:52:00	MIL-22	ECE	TO	OCO	16	4,512
E781294095	11/5/2009	18:04:00	QUI-26	ECF	TO	OCO	1	506
E835754556	11/5/2009	17:43:00	LAB-25	EAA	TO	OCO	368	136,096
E440539611	11/5/2009	18:38:00	VWY-13	EAA	TO	OCO	641	112,175
E328535652	11/5/2009	15:27:00	ALG-15	EAA	EF	OCO	24	15,456
E748322585	11/5/2009	19:09:00	CHI-15	ECD	TO	OCO	273	116,025
E815935813	11/5/2009	17:30:00	SUM-21	EAC	TO	OCO	64	36,224
E851016245	11/5/2009	18:42:00	LAU-12	EAA	EF	OTR	437	148,715
E763135780	11/5/2009	17:09:00	KEN-13	EAA	TF	OCO	119	43,911
E159601203	11/5/2009	18:19:00	NUG-26	EAA	EF	OFC	68	32,164
E224117860	11/5/2009	17:25:00	GAG-13	EAC	TF	OTR	1,008	91,879
E962551018	11/5/2009	19:13:00	SWD-12	ECE	TO	OCR	32	18,304
E603333548	11/5/2009	16:52:00	NUG-25	EAA	TO	OCO	495	33,165
E473096633	11/5/2009	16:27:00	MCK-15	EAA	EF	OPO	3	2,859
E753166587	11/5/2009	22:31:00	SCH-16	EAA	TF	OCO	53	31,603
E069040799	11/5/2009	19:25:00	KIN-22	ECE	TO	OCO	24	12,600
E073993931	11/5/2009	19:19:00	MAN-16	ECD	TO	OCO	13	9,178
E037342838	11/5/2009	16:06:00	SIL-13	ECE	TF	OCO	352	288,288
E589453327	11/5/2009	16:21:00	CEK-14	ECE	TO	OCO	625	276,875
E712702307	11/5/2009	19:34:00	POU-16	ECE	TO	OCO	31	14,105
E636148081	11/5/2009	19:22:00	PMA-12	ECE	TO	OCO	24	11,328
E628194376	11/5/2009	19:40:00	BHL-12	ECE	TO	OCO	6	3,000
E318955865	11/5/2009	19:42:00	BHL-16	ECE	TF	OCO	2	1,034
E540779767	11/5/2009	19:32:00	FNW-15	ECD	TO	OCO	17	9,299
E018034237	11/5/2009	23:52:00	ING-13	EBD	TO	OCO	146	35,773
E258765028	11/5/2009	19:03:00	JUA-14	EBD	TO	OCO	365	102,255
E389559889	11/5/2009	19:15:00	FAL-13	EBD	TO	OCO	22	6,957
E101629628	11/5/2009	19:29:00	COT-13	EBD	TO	OCO	13	4,758
E357572704	11/5/2009	18:23:00	BTR-22	EBE	EF	OFC	3	1,212
E883462984	11/5/2009	14:08:00	MIR-17	EBF	EF	UPC	3	1,720
E750709272	11/5/2009	11:00:00	COT-15	EBD	EF	UPC	12	7,596
E208539547	11/5/2009	11:27:00	KEN-13	EAA	EF	UOT	20	3,835
E587319432	11/5/2009	11:47:00	ALG-12	EAC	TF	OCR	26	5,226
E298861760	11/5/2009	14:45:00	HAP-16	EAA	TO	OCO	757	168,953
E472721847	11/5/2009	8:54:00	BTN-38	EAC	EF	OCO	11	2,486
E046212727	11/5/2009	11:27:00	BLA-13	EAA	TO	OCO	55	15,542
E338697652	11/5/2009	13:05:00	SCH-16	EAA	TO	OCO	110	34,155
E851811819	11/5/2009	14:58:00	LYN-24	EAA	TF	OPO	3	996

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Notification	Date	Time	Circuit	Area	Cause	Equipment	Cust Outs	Cust Mins
E646810851	11/5/2009	15:10:00	BIG-15	EAC	TF	OTR	540	194,780
E253597676	11/5/2009	3:24:00	BRO-15	EAD	TO	OCO	440	171,600
E177484965	11/5/2009	14:35:00	BIG-12	EAC	TO	OAR	23	10,741
E791845419	11/5/2009	17:33:00	LYN-23	EAA	EF	OTH	62	39,742
E665281872	11/5/2009	12:33:00	BCH-13	EAA	TO	OCO	26	17,784
E973781125	11/5/2009	10:14:00	GRA-25	EBJ	TF	OTR	1	198
E718621285	11/5/2009	15:46:00	RJN-25	EBJ	EF	UTR	29	13,293
E675837272	11/5/2009	18:35:00	LWS-16	EBJ	TO	OCO	15	7,576
E918175446	11/5/2009	21:14:00	BON-17	ECA	TF	OCO	272	93,505
E416517899	11/5/2009	21:48:00	OBY-17	ECC	TO	OTR	14	4,914
E440307117	11/5/2009	18:27:00	GRV-15	ECA	EF	OCO	384	145,152
E676464750	11/5/2009	17:52:00	BLU-17	ECC	TO	OCO	1,400	541,600
E684693639	11/5/2009	18:02:00	HOL-15	ECA	EF	USV	1	398
E328088141	11/5/2009	17:50:00	KAP-15	ECA	TO	OCO	2	980
E644131364	11/5/2009	18:31:00	GAR-16	ECA	EF	OTR	1	589
E572108960	11/5/2009	12:20:00	SIL-13	ECE	TO	OCO	40	7,400
E286828151	11/5/2009	1:08:00	POU-15	ECE	TO	OCO	16	4,134
E315872743	11/5/2009	1:37:00	PGA-12	ECE	TO	OCO	13	4,485
E588470887	11/5/2009	14:21:00	CHR-23	ECE	TO	OPI	4	1,400
E151941455	11/5/2009	3:32:00	KIN-22	ECE	EF	OTR	2	836
E558821648	11/5/2009	14:13:00	MIL-23	ECE	TF	OCO	63	27,090
E089871863	11/5/2009	14:16:00	MIL-16	ECE	TF	OCO	103	51,912
E833974345	11/5/2009	12:07:00	QUI-25	ECF	TO	OCO	124	63,860
E215488728	11/5/2009	15:42:00	SIL-13	ECF	TO	OCO	25	12,950
E205239793	11/5/2009	20:17:00	WOD-15	EBH	EF	OTF	5	278
E370091147	11/5/2009	21:54:00	KWH-25	EBE	TO	OCO	770	53,198
E313191592	11/5/2009	17:31:00	FAL-13	EBF	EF	OFU	6	420
E316091054	11/5/2009	21:43:00	HAZ-15	EBE	TO	OCO	88	6,566
E055560805	11/5/2009	9:34:00	NBO-22	EBD	BA	OTF	3	234
E007876307	11/5/2009	4:18:00	WIS-14	EBF	BA	OTF	1	80
E871091590	11/5/2009	14:45:00	SNQ-17	EBF	EF	OCO	911	84,723
E635103773	11/5/2009	8:30:00	HAZ-15	EBE	SO	OFC	219	20,367
E411742287	11/5/2009	8:52:00	PIK-21	EBF	SO	UPC	1	98
10911445	11/5/2009	19:17:00	NBO-23	EBD	TO	OCO	1	103
E752129970	11/5/2009	19:22:00	PHA-13	EBE	EF	OTF	4	456
E666715393	11/5/2009	12:58:00	LOC-35	EBE	SO	OTR	5	610
E434150013	11/5/2009	1:12:00	AVO-17	EBD	BA	OFU	3	380
E677091052	11/5/2009	7:51:00	GOO-13	EBF	EF	OTF	1	138
E918089898	11/5/2009	10:47:00	UHL-22	EBD	EF	UTC	3	513
E578831465	11/5/2009	7:37:00	MLK-13	EBE	EF	OFC	4	760
E809446345	11/5/2009	17:00:00	CWD-24	EBD	EF	UEL	19	4,202
E540238638	11/5/2009	8:00:00	CLY-26	EBD	SO	USV	1	476
E906653643	11/5/2009	8:00:00	CLY-26	EBD	SO	USV	1	476
E735184014	11/5/2009	9:17:00	LYN-13	EAA	BA	OTF	5	165
E899548995	11/5/2009	14:22:00	RIT-19	EAC	TO	OTF	4	132
E351631876	11/5/2009	10:13:00	BTN-36	EAC	EF	OSV	1	47
E508403601	11/5/2009	4:55:00	ALG-12	EAC	TO	OTF	1	50
E614251445	11/5/2009	8:49:00	WOB-25	EAA	EF	OFU	24	1,368
E317666802	11/5/2009	13:20:00	NLM-16	EAC	TO	OTF	1	60

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Notification	Date	Time	Circuit	Area	Cause	Equipment	Cust Outs	Cust Mins
E605434100	11/5/2009	14:33:00	TLN-0015	EAD	TO	OFU	3,447	248,184
E006405343	11/5/2009	20:27:00	LGY-16	EAD	TO	OFU	71	5,183
E110020597	11/5/2009	16:51:00	HAP-15	EAA	TO	OFU	14	1,064
E311409589	11/5/2009	14:25:00	RIT-17	EAC	TO	OFU	65	5,070
E528955614	11/5/2009	15:06:00	NLM-15	EAC	TO	OFU	15	1,260
E704759532	11/5/2009	15:21:00	NLM-13	EAC	TF	OSV	1	92
E028436861	11/5/2009	19:41:00	BLS-23	EAA	UN	OFU	3,752	363,944
E365384350	11/5/2009	15:01:00	HAN-12	EAA	TF	OTF	7	693
E026396832	11/5/2009	5:54:00	ROE-17	EAA	TO	OFU	58	5,858
E157297934	11/5/2009	9:32:00	ALG-15	EAC	EF	OTF	1	102
10912781	11/5/2009	22:41:00	NUG-25	EAA	TO	OCO	495	52,470
E882397573	11/5/2009	21:26:00	FAB-15	EAD	TO	OFU	2	218
E865067896	11/5/2009	15:44:00	NUG-26	EAA	TO	OFU	250	28,500
E564103865	11/5/2009	4:41:00	NUG-26	EAA	TO	OFU	15	1,875
E431381338	11/5/2009	14:56:00	GBK-15	EAD	TF	OSV	2	288
E334285430	11/5/2009	16:39:00	SST-17	EAA	TO	OFU	88	13,419
E817741690	11/5/2009	17:14:00	NLM-16	EAC	TO	OFU	109	17,222
E758842268	11/5/2009	15:34:00	ALG-12	EAC	TO	OHR	286	49,764
E976599009	11/5/2009	16:30:00	SWA-16	EAD	TO	OFU	8	1,408
E965216693	11/5/2009	19:12:00	HAP-16	EAA	TO	OFU	29	6,177
E313344458	11/5/2009	2:36:00	OLD-25	EAA	AO	OFU	50	13,398
E085550622	11/5/2009	15:34:00	SUM-22	EAC	TO	OTF	14	3,766
E399780999	11/5/2009	18:10:00	HAM-15	EAC	TO	OFU	38	10,488
E192632153	11/5/2009	15:51:00	CRE-15	EAD	TF	OFU	19	5,586
E993829820	11/5/2009	15:26:00	PLY-13	EAA	TF	OCN	11	4,004
E676027028	11/5/2009	16:30:00	LAB-26	EAA	TO	OFU	76	44,080
E138600479	11/5/2009	19:46:00	SWE-13	EBJ	TO	OFU	25	1,515
E087025401	11/5/2009	17:20:00	DES-15	EBJ	AV	OFU	78	5,616
E922435407	11/5/2009	10:57:00	SHD-18	EBI	EF	OTF	3	225
E930454233	11/5/2009	17:46:00	WAB-13	EBI	TO	OFU	25	1,885
E954813730	11/5/2009	20:33:00	SOO-25	EBI	EF	OTF	2	168
E987326526	11/5/2009	13:20:00	SHD-15	EBI	EF	PTF	1	88
E738719761	11/5/2009	10:27:00	STA-15	EBJ	PO	OSV	1	89
E336158146	11/5/2009	15:04:00	LMD-16	EBJ	TF	OFU	15	1,397
E811880523	11/5/2009	12:46:00	FWY-12	EBJ	TO	OSV	1	99
E532116262	11/5/2009	10:42:00	CAM-23	EBJ	EF	OFU	26	2,886
E510287231	11/5/2009	19:54:00	BDI-12	EBI	TO	OFU	3	341
E973061898	11/5/2009	17:50:00	OSC-23	EBI	TO	OFU	46	5,342
E515842303	11/5/2009	20:55:00	DES-15	EBJ	TO	OFU	5	640
E663729795	11/5/2009	18:44:00	HOB-16	EBI	TO	OCO	92	11,960
E426393814	11/5/2009	19:18:00	NNO-12	EBJ	TO	OCO	40	5,469
E018886794	11/5/2009	18:01:00	PIP-22	EBI	EF	OTF	5	786
E533111057	11/5/2009	17:47:00	TLN-0224	ECC	TF	OCO	8,409	238,378
E601855937	11/5/2009	10:14:00	LAC-17	ECC	BA	OTF	8	296
E734350044	11/5/2009	8:18:00	LAC-13	ECC	BA	OFU	4	172
E157276804	11/5/2009	18:19:00	ORT-22	ECA	TF	OCO	423	19,035
E607879167	11/5/2009	11:02:00	GAR-15	ECA	TF	OSV	1	70
10910930	11/5/2009	22:00:00	LON-23	ECC	TF	OFU	10	710

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Notification	Date	Time	Circuit	Area	Cause	Equipment	Cust Outs	Cust Mins
E167563261	11/5/2009	12:20:00	RAI-12	ECC	TF	OFU	2	154
E325168691	11/5/2009	18:26:00	SHA-13	ECA	TO	OCO	1,394	108,944
E370607787	11/5/2009	8:51:00	GRI-16	ECC	TF	OSV	1	80
E486413593	11/5/2009	17:29:00	ORT-22	ECA	TF	OCO	2,047	171,948
E194337749	11/5/2009	17:35:00	RHO-13	ECA	TF	OCO	448	40,320
E957857959	11/5/2009	16:19:00	YEL-27	ECC	TF	OFU	50	4,500
E459867570	11/5/2009	18:24:00	LTA-18	ECA	TF	OCO	1,388	148,516
E766983881	11/5/2009	19:08:00	BLU-13	ECC	EF	OTF	4	468
E495715813	11/5/2009	20:42:00	AIR-22	ECC	TF	OSV	1	120
E392972622	11/5/2009	18:22:00	RHO-15	ECA	TF	OCO	1,126	180,160
E213525499	11/5/2009	19:01:00	ELD-23	ECC	TF	OFU	12	2,364
E316097009	11/5/2009	19:39:00	STW-12	ECA	TF	OSV	1	201
E502192548	11/5/2009	18:22:00	LON-25	ECC	TF	OJU	169	37,349
E694204870	11/5/2009	18:59:00	GRV-12	ECA	TF	OTF	2	464
E459969409	11/5/2009	17:26:00	ORT-23	ECA	TF	OFU	25	7,300
E086735950	11/5/2009	21:40:00	SWI-15	ECC	EF	UTC	120	35,990
E556528932	11/5/2009	20:04:00	CED-15	ECA	TF	OSV	1	307
E804420555	11/5/2009	18:17:00	GRI-13	ECC	EF	OTF	2	631
E095753740	11/5/2009	20:16:00	WOO-27	ECA	EF	UTC	1	317
E934208651	11/5/2009	14:36:00	PGA-12	ECE	TO	OCO	1,689	40,536
E857523923	11/5/2009	8:40:00	MAN-15	ECD	BA	OTF	7	231
E557903789	11/5/2009	14:04:00	KIN-22	ECE	TO	OFU	2	104
E867737127	11/5/2009	15:09:00	CHR-22	ECE	TO	OFU	2	126
E265500716	11/5/2009	14:28:00	POU-15	ECE	TO	OFU	59	4,012
E146243155	11/5/2009	19:13:00	FRA-15	ECD	TO	OCO	1,443	108,225
E301303744	11/5/2009	19:08:00	MIL-17	ECE	TO	OCO	1,725	129,375
E209729236	11/5/2009	14:21:00	KIN-21	ECE	TF	OFU	3	264
E282184775	11/5/2009	14:38:00	SWD-13	ECE	TO	OCO	28	3,108
E715483787	11/5/2009	15:54:00	SWD-12	ECE	TO	OFU	58	6,554
E530355491	11/5/2009	6:46:00	PGA-15	ECF	UN	UOT	6	684
E120563150	11/5/2009	19:08:00	FRA-16	ECD	TO	OCO	480	55,680
E631865807	11/5/2009	15:37:00	QUI-26	ECF	UN	OFU	5	580
E669686836	11/5/2009	6:50:00	HAS-13	ECF	TF	OSV	3	360
E644819260	11/5/2009	6:57:00	PGA-13	ECE	TF	OFU	3	381
E107229295	11/5/2009	19:11:00	BRE-11	ECD	TF	OCO	995	145,270
E421243051	11/5/2009	21:27:00	FRA-16	ECD	TO	OCO	10	1,510
E841453717	11/5/2009	0:30:00	CHI-12	ECD	UN	OFU	25	3,863
E404327811	11/5/2009	19:01:00	WIN-15	ECE	TO	OCO	1,313	221,897
E771156172	11/5/2009	4:12:00	CHI-12	ECD	TF	OCO	5	1,040
E759938590	11/5/2009	15:23:00	QUI-25	ECE	TO	OFU	1	220
E967380374	11/5/2009	19:09:00	SWD-13	ECE	TO	OFU	28	7,616
E005580149	11/5/2009	20:55:00	FNW-17	ECD	TO	OCO	338	94,640
E769394372	11/5/2009	18:59:00	SWD-11	ECE	TF	OFU	25	7,050
E586148459	11/5/2009	17:40:00	VAS-13	EBL	TO	OCO	27	7,641
E261874280	11/5/2009	18:41:00	SIN-25	ECD	TO	OCO	540	180,360
E355425304	11/5/2009	19:30:00	PGA-13	ECE	TO	OFU	3	1,020
E501672179	11/5/2009	19:18:00	VAS-12	EBL	TO	OCR	171	62,073
E753772253	11/5/2009	19:05:00	FRA-12	ECD	TO	OCO	1,103	404,730
E212171743	11/5/2009	19:20:00	FNW-16	ECD	TO	OCO	1,415	638,165

Qualifying Storm Event
November 5, 2009

Notification	Date	Time	Circuit	Area	Cause	Equipment	Cust Outs	Cust Mins
E962336241	11/5/2009	19:26:00	PMA-13	ECE	TO	OCO	100	51,200
E313301515	11/5/2009	19:52:00	WIN-13	ECE	TO	OCO	1	600

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

Media Coverage



Thursday, November 5, 2009

Fall storm turns deadly

[Watch story here.](#)

SEATTLE – A 40-year-old man died in Shoreline's Hamlin Park Thursday evening after a portion of a tree fell on him.

The accident occurred in windy weather around 7 p.m. as the man and his wife walked their dog. He was pronounced dead at the scene. His identity has not yet been released.

High winds, heavy rains, loss of power

A strong cold front is moving through the Northwest Thursday, bringing high winds and heavy rains to Western Washington and snow to the Cascades.

Areas all over Western Washington found themselves without power Thursday evening.

Several outages caused by high winds affected approximately 5,500 Tacoma Power customers. Crews have been dispatched to the outage locations, but do not have estimated times for restoring power at this time. Tacoma Power customers without power should call 253-502-8602 to report outages.

Around 6 p.m., more than 5,000 customers lost power in the Aberdeen area.

Puget Sound Energy reported 12,000 outages. Most outages were reported in Whatcom and Skagit counties. Other outages included parts of Poulsbo, Olympia, Puyallup and Magnolia.

"Gusty winds have developed north of Everett this morning and will spread over the remainder of the interior later this morning and continuing this afternoon," said KING 5 Meteorologist Rich Marriott. "The cold front will move through early this evening followed by much cooler showery air and decreasing winds."

A wind advisory is in effect through Thursday night for the Northern Interior and Admiralty Inlet. Marriott says from Everett northward, winds will reach between 15-25 mph with 30-40 mph gusts.

Flood watches are in effect for Whatcom and Mason counties.

Rainfall amounts from the storm are expected in the 3-5-inch range for the Olympics, 2-4 inches for the Cascades and about an inch in the interior lowlands south of Seattle.

Marriott said the Nooksack River in the Cascades could flood and the Skokomish River in the Olympics is expected to reach flood stage Friday.

"If flooding does occur, it will be minor," said Marriott.

Showers will be off and on through Thursday night. Friday night, Western Washington could see showers and some thunderstorms.

Marriott said snow levels will drop to about 2,500-3,000 feet Thursday night and Friday with 4-8" of snow possible in the Cascade passes.

Along the coast, Marriott expects very big waves with swells reaching 23-28 ft.

"Another front will give us a rainy and cool day on Saturday," said Marriott. "Sunday will be a break with a little sun and only a few showers. Next week looks wet off and on and cool."

THE BELLINGHAM HERALD

Thursday, November 5, 2009

Winds knock out trees, power in Whatcom County, but flood watch canceled

By HANNAH BOSTWICK AND ZOE FRALEY

Strong winds with gusts up to 54 mph battered Whatcom County Thursday, Nov. 5, causing scattered power outages throughout the county.

Winds hovered between 20 and 30 mph throughout Thursday, with gusts in the 40s and 50s, according to official numbers recorded at Bellingham International Airport.

Puget Sound Energy reported scattered outages throughout Whatcom County Thursday, but specific numbers and locations weren't available because the storm was ongoing, said a PSE spokeswoman.

Public works crews were busy sandbagging to prepare for possible flooding along the Nooksack River and responding to calls of trees and branches brought down by the wind, said Public Works employee Pam Jones.

Winds were expected to die down overnight.

A flood watch for Whatcom County was canceled at about 1:45 p.m. because the rain was no longer forecasted to be heavy enough for rivers to reach their flood stage. Forecasts still call for plenty of rain starting Friday and lasting through the weekend, so those living near the Nooksack River should keep an eye out.

"Rivers will still increase their levels, so people should be aware of that," said Johnny Burg, a National Weather Service meteorologist.

The Nooksack River was within one foot of flood levels at Cedarville and near the South Fork at Saxon Bridge, said James Lee, river and flood engineer for Whatcom County Public Works.

To prevent urban flooding, residents should make sure storm drains near their homes are clear of leaves and other debris, Lee said.

THE NEWS TRIBUNE

Thursday, November 5, 2009

Wind knock down trees, cause power outages in Pierce County

Posted By Mike Archbold

Update, 9:19 p.m.: Puget Sound Energy reports that it has restored power to all but 120 of the 8,000 customers who lost power in Pierce County this evening in the gusty winds.

UPDATE, 6:35 p.m.: Tacoma Power is reporting 5,500 customers without power in Pierce County due to numerous, high wind-caused power outages.

Meanwhile Puget Sound Energy reported as many as 8,000 customers were without power primarily in the greater Puyallup area this evening. A company spokeswoman said the number of people without power was down to 3,000 by 7 p.m.

In South King County, there were small scattered outages, according to Puget Sound Energy.

Tacoma Power Crews have been dispatched to the outage locations, but do not have estimated times for restoring power at this time.

One wind gust at University Place in the late afternoon reached 39 mph, according to the Weather Underground Web site.

Qualifying Storm Event
November 5, 2009

A meteorologist for the Seattle Office of the National Weather Service said the winds in the Puget Sound area should die down in the next hour. The Weather Service issued a wind advisory for the area north of Everett for high winds from 23 mph to 33 mph.

The Tacoma Power outage locations include:

- The area around 84th Ave. SW and Terrace Road in Tacoma – in the vicinity of Custer Elementary and Oakbrook Elementary.
- Bridgeport Way from 48th Street West to Chambers Creek Road West.
- 36th Street East to 27th Street East from Pacific Ave. to I Street East.
- East 25th Street to East 35th Street from McKinley Avenue to East N Street and Puyallup Avenue between McKinley Avenue and 26th Avenue East.

Tacoma Power customers without power should call 253-502-8602 to report outages.

Update, 6:26 p.m.: Tree down into power lines at 214th Avenue East and 34th Street East.

Update, 6:20 p.m.: tree down at 10024 Angeline Rd East in Bonney Lake, according to scanner.

Update, 6:19 p.m.: Scanner traffic reports a power outage at Portland Avenue and South 56th Street.

UPDATE, 6:05 p.m.: Scanner traffic reports that power lines are down on the Mountain Highway East at about 304th Street East.

Two power outages this evening have Tacoma Power crews busy. Wind is a factor in both outages.

A power outage on Bridgeport Way in University Place has affected nearly 1,200 Tacoma Power customers.

The outage which occurred at 5:21 p.m. is between 48th Street West and Chambers Creek Road West, according to Tacoma Power.

Tacoma Power crews are on the scene but there is no estimate at this time when the power will be back on. The cause of the outage is unknown.

About 175 customers are out of power south of Fort Lewis in the vicinity of 304th Street South and 8th Avenue South. Tacoma Power crews expect to repair that outage which occurred at 4:30 p.m. fairly soon. This post will be updated as information becomes available.



Friday, November 06, 2009

High Winds and Rain Cause Scattered Power Outages

By Tracy Ellis

WHATCOM COUNTY, Wash. -- Gusts of wind, some clocked above 50mph, knocked out power; while rain pooled up and clogged storm drains in Whatcom County last night.

Puget Sound Energy was reporting scattered power outages throughout the county.

While there has been some urban flooding, the flood watch for the Nooksack River was cancelled Thursday afternoon.

Officials are once again asking you to clear storm drains and culverts near your homes and businesses.



Thursday, November 5, 2009

Wind downs tree, causing 'a big inconvenience' south of Quilcene

By Jeff Chew

High winds blew a tree down across U.S. Highway 101 near the Big Quilcene River Bridge about a mile south of Quilcene, downing power lines and closing the highway in both directions for more than an hour Thursday afternoon.

"It was just a big inconvenience," said Trooper Krista Hedstrom, Washington State Patrol spokeswoman. "The cars were either waiting or turning around."

Motorists were stopped from about 12:15 p.m. until 1:41 p.m., while state Department of Transportation and Puget Sound Energy workers cleared the fallen timber and repaired power lines.

There was no damage to any vehicle as a result of the fallen tree, Hedstrom said.

Kelly Stowe, Transportation spokeswoman, said the tree was about 22 inches in diameter and that PSE crews were quick to respond to the damaged power lines.

PSE spokeswoman Abigail Elliott said she did not know how the downed lines affected service to the area but that added short outages were scattered around the county most of the windy day.

Winds gusted as high as 43 mph in Port Townsend, and averaged around 23 mph, according to data from the Jefferson County Courthouse clock tower weather station.

Jefferson County's JeffCom emergency dispatch reported power lines sparking small tree-branch fires around the county throughout the day.

In Port Townsend, it was a good day for the 50-car ferry Steilacoom II to be out of service for repairs to a generator.

Three- to four-foot seas reported on Port Townsend Bay would likely have been enough to keep the ferry tied up at the dock.

The ferry serving the route between Port Townsend and Keystone on Whidbey Island was expected to return to service today.

The National Weather Service reported southeast winds on Admiralty Inlet of 30 mph to more than 50 mph.

Hood Canal Bridge remained open despite high winds.

Transportation closes the bridge to traffic when winds are sustained at 35 mph for 15 minutes.



Waves pound the shoreline Thursday afternoon while the Steilacoom II received repairs to its generator at the Port Townsend ferry dock. -- Photo by Jeff Chew/Peninsula Daily News

Qualifying Storm Event
November 5, 2009



Thursday, November 5, 2009

Power Out for 625 PSE Customers in Silverdale

SILVERDALE — Puget Sound Energy reported 625 customers were without power as of 4:30 p.m. Thursday. The outage, caused by high winds, occurred North of Mount Road on Clear Creek Road. Repair crews were on route as of 5:30 p.m.