



2010 Qualifying Storm Events

January 17, 2010

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Event Description

Date of event

January 17, 2010

Event Type

Wind storm.

Service Areas Affected

This weather event affected Thurston, Kitsap, Jefferson and King Counties.

Number of Customers Affected

Approximately 65,800 customers were without power over the course of this outage event.

Summary of System Impacts

Total Number of Outages	333
Distribution Circuits Totally Out	25
Distribution Circuits Partially Out	308

Transmission Circuits Affected	6
Substations Totally Off-line	3

Mobilization Summary

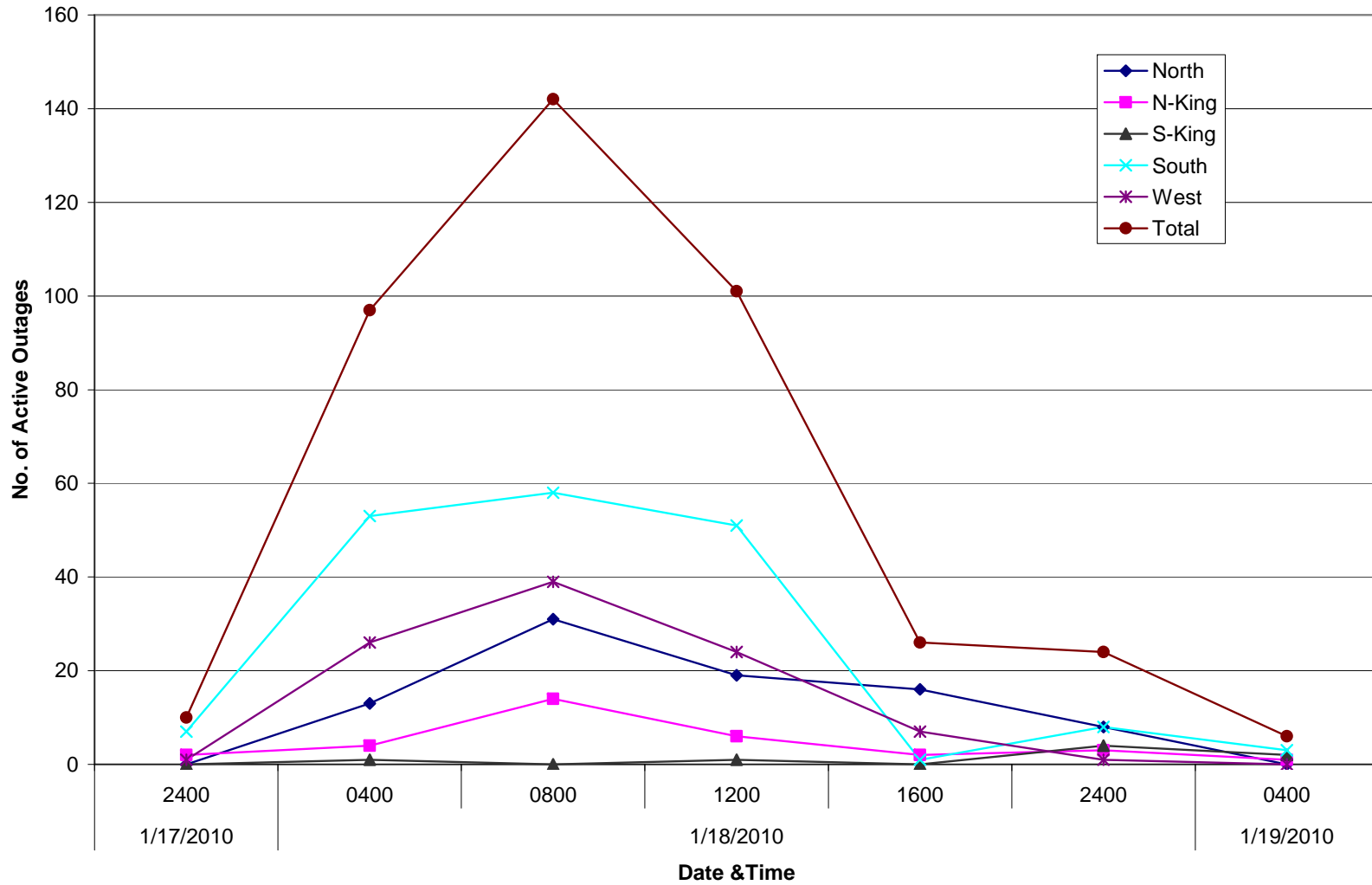
Operating Bases

Base	Date Opened	Time Opened	Date Closed	Time Closed
Thurston	01/17/2010	00:30	01/19/2010	01:00
Kitsap	01/18/2010	03:00	01/19/2010	17:30
Jefferson	01/18/2010	03:00	01/19/2010	17:30
Vashon	01/18/2010	03:00	01/19/2010	17:30

Emergency Operations Center

EOC	Date Opened	Time Opened	Date Closed	Time Closed
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Outage Events - Jan 17, 2010 to Jan 19, 2010



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 2010: 7.21 Minutes

Qualified Events - 2010

Current Event – Calculation Detail

Event Date	Total Customer Minutes	Average Customer Count	Daily SAIDI – Customer Minutes /Customer Count
01/17/2010	31,611,547	1,080,599	29.25

Cumulative list of events that have qualified

Date(s)	T-med Score	O&M – Deferrable Accumulation
01/17/2010	29.25	\$862,417

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
01/17/2010	\$0	\$50,785	\$0	\$79,959	\$862,417	\$942,376	\$993,161

YTD Storm Restoration Cost Detail – Through Jan 19, 2010

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
01/17/2010	\$50,785	\$0	\$79,959	\$862,417	\$942,376	\$993,161

Qualifying Storm Event
January 17, 2010

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							
January 17, 2010 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		\$ 166			\$ 2,671	\$2,671	\$2,837
OT		\$ -			\$ 82,000	\$82,000	\$82,000
Total Labor	\$0	\$ 166	\$0	\$0	\$ 84,671	\$84,671	\$84,837
Labor OH		\$ 106			\$ 33,703	\$33,703	\$33,809
Materials		\$ 10,782			\$ 24,311	\$24,311	\$35,093
Contractors		\$ 32,834			\$ 692,258	\$692,258	\$725,093
Other Direct Charges					\$ 7,094	\$7,094	\$7,094
Fleet		\$ 17			\$ 20,380.13	\$20,380	\$20,397
Other Assessments		\$ 6,880		\$ 79,959	\$ 0	\$ 79,959	\$ 86,838.95
Deferred Expenses					\$0	\$0	\$ -
	\$0	\$50,785	\$0	\$79,959	\$ 862,417	\$942,376	\$993,161

IEEE-1366 - Detailed List of Distribution Circuits with Outages

NUMBER	DATE	TIME	CIRCUIT	AREA	CAUSE	EQT	CUST.OUT	CUST.MIN
E185375635	1/18/2010	0:00:00	ROC-16	ECC	TV	OCO	1,546	1,450,363
E042888068	1/18/2010	0:06:00	FRG-22	ECC	TV	OCO	1,133	749,738
E923813998	1/18/2010	0:07:00	KIN-24	ECE	TV	OCO	657	132,199
E279764943	1/18/2010	0:10:00	WOL-25	ECC	TV	OFC	223	221,439
E549396129	1/18/2010	0:12:00	BAR-13	ECC	TV	OCO	2	2,310
E296548750	1/18/2010	0:15:00	ROC-26	ECC	TV	OFC	196	178,556
E219329228	1/18/2010	0:22:00	BAR-15	ECC	TV	OCO	1,898	1,602,339
E479938022	1/18/2010	0:24:00	AIR-26	ECC	TV	OFC	403	431,613
E851151466	1/18/2010	0:30:00	HOL-13	ECA	TV	OCO	35	3,487
E108297009	1/18/2010	0:31:00	MOT-14	ECC	TV	OCO	948	621,888
10928594	1/18/2010	0:31:00	TLN-0153	ECC	TV	OCO	4,271	17,084
E805064039	1/18/2010	0:31:00	GRI-13	ECC	TV	OFC	127	137,668
E960594646	1/18/2010	0:36:00	LON-25	ECC	TV	OFU	274	105,490
E648150286	1/18/2010	0:37:00	LAC-15	ECC	TV	OCO	829	534,705
E192623495	1/18/2010	0:40:00	MKI-17	ECC	TV	OCO	1,992	1,239,024
E549902161	1/18/2010	0:41:00	PAT-17	ECC	TV	OCO	188	150,964
E778568183	1/18/2010	0:42:00	KAP-15	ECA	TV	OCO	10	4,963
E936146092	1/18/2010	0:44:00	ELD-25	ECC	TV	OFC	444	453,768
E471256746	1/18/2010	0:44:00	TLN-0155	ECC	TV	OCO	4,199	1,650,207
E974104925	1/18/2010	0:47:00	LON-23	ECC	TV	OFU	159	96,513
E194844967	1/18/2010	0:50:00	PRI-23	ECC	TV	OFC	87	67,773
E549369656	1/18/2010	0:51:00	LAC-13	ECC	TV	OCO	3,249	1,055,925
E442248606	1/18/2010	0:53:00	FRG-25	ECC	TV	OCO	1,380	764,520
E836901733	1/18/2010	0:54:00	ELD-23	ECC	TV	OCO	610	389,180
E006563704	1/18/2010	0:55:00	SWI-15	ECC	TV	OCO	1,016	568,960
E773986156	1/18/2010	0:57:00	PLG-15	ECC	TV	OFC	1,126	858,012
E637372488	1/18/2010	1:05:00	FRG-24	ECC	TV	OCO	297	31,482
E044768536	1/18/2010	1:05:00	PAT-15	ECC	TV	OCO	1,906	1,818,324
E839081358	1/18/2010	1:08:00	HAW-12	ECC	TV	OCO	1,925	561,691
E086578731	1/18/2010	1:12:00	MCA-16	ECC	TV	OCO	382	284,590
E293382493	1/18/2010	1:16:00	TAN-16	ECC	TV	OFC	1,139	1,118,498
E688010404	1/18/2010	1:22:00	LAC-17	ECC	TV	OFC	17	9,962
E959705962	1/18/2010	1:27:00	MKI-15	ECC	TV	OTF	9	4,356
E924651709	1/18/2010	1:38:00	CPV-15	EAD	TV	OCO	50	15,663
E930478665	1/18/2010	1:44:00	TLN-0181	ECA	UN	OCO	2,626	811,434
E032592142	1/18/2010	1:45:00	IRO-17	ECF	TV	OCO	317	30,612
E762195579	1/18/2010	1:46:00	SIN-25	ECD	TV	OCO	535	70,005
E726510142	1/18/2010	1:48:00	SWI-13	ECC	TV	OCO	910	603,330
E654643578	1/18/2010	1:52:00	LAC-13	ECC	TV	OCO	103	87,241
E924357328	1/18/2010	1:53:00	PRI-13	ECC	TV	OFC	20	9,980
E251061114	1/18/2010	1:53:00	VAS-13	EBL	TV	OCO	19	3,230
E334349378	1/18/2010	1:56:00	FRA-12	ECD	TV	OCO	20	10,420
E097151963	1/18/2010	1:58:00	TLN-0134	ECC	TV	OCO	3,850	2,059,750
E491833763	1/18/2010	1:58:00	MOT-17	ECC	TV	OCO	601	337,762
E867847436	1/18/2010	1:59:00	FLD-15	EAD	TV	OFU	1,724	181,020
E071642307	1/18/2010	2:04:00	FRA-15	ECD	TV	OCO	795	123,755
E916977481	1/18/2010	2:06:00	KIN-23	ECE	TV	OCO	160	26,080
E328299786	1/18/2010	2:09:00	SWA-12	EAD	TV	OCO	125	73,049
E154312326	1/18/2010	2:12:00	CHM-11	ECF	TV	OCO	76	51,452
E910377765	1/18/2010	2:12:00	LGY-16	EAD	TV	OCO	100	79,500
E684203520	1/18/2010	2:15:00	GBK-13	EAD	TV	OTF	6	486
E346799424	1/18/2010	2:23:00	BUC-16	ECA	TV	OCO	5	2,656
E100031424	1/18/2010	2:24:00	SWD-11	ECE	TV	OCO	1,760	388,960
E912889544	1/18/2010	2:27:00	TRA-25	ECE	TV	OCO	429	178,893
E875906396	1/18/2010	2:30:00	PMA-16	ECE	TV	OCO	44	32,868

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NUMBER	DATE	TIME	CIRCUIT	AREA	CAUSE	EQT	CUST.OUT	CUST.MIN
E288201277	1/18/2010	2:34:00	CRE-15	EAD	EF	OJU	85	67,467
E970784981	1/18/2010	2:37:00	ORT-22	ECA	TV	OCO	306	26,612
E661806276	1/18/2010	2:37:00	SKE-22	ECE	TV	OCO	1,716	312,312
E040792638	1/18/2010	2:39:00	DIS-13	ECF	TV	OFU	49	13,034
E119448821	1/18/2010	2:46:00	FLD-12	EAD	TV	OCO	275	67,700
E646603566	1/18/2010	2:50:00	BRO-16	EAD	TV	OCO	35	45,885
E187688168	1/18/2010	2:55:00	BRO-15	EAD	TV	OCO	85	73,610
E251856858	1/18/2010	2:57:00	CAP-15	ECC	TV	OCO	659	270,777
E151463398	1/18/2010	2:58:00	PTL-16	ECF	TV	OPO	249	203,574
E090923683	1/18/2010	3:09:00	HAZ-16	EBE	TV	OCO	139	29,535
E708303305	1/18/2010	3:13:00	LGY-12	EAD	TV	OCO	200	107,400
E061150051	1/18/2010	3:21:00	SWD-13	ECE	TV	OCO	375	76,500
E257579489	1/18/2010	3:26:00	HWD-25	EBD	TV	OCO	415	63,495
E437230482	1/18/2010	3:27:00	ROL-16	EBJ	EF	OSV	1	149
E263633147	1/18/2010	3:33:00	SHE-15	ECE	TV	OCO	1,221	405,372
E797273785	1/18/2010	3:37:00	PGA-13	ECE	TV	OCO	1,256	638,048
E361878422	1/18/2010	3:37:00	FRA-13	ECD	TV	OCO	1,338	367,950
E075114898	1/18/2010	3:39:00	LGY-15	EAD	TV	OCO	3	1,413
E385025578	1/18/2010	3:39:00	GRI-16	ECC	TV	OCO	59	52,746
E626488079	1/18/2010	3:42:00	MIL-17	ECE	TV	OCO	1,697	473,463
E092555897	1/18/2010	3:50:00	FLD-13	EAD	TV	OHR	10	650
E660719878	1/18/2010	3:55:00	LON-22	ECC	TV	OJU	241	79,530
E103994522	1/18/2010	3:57:00	BRW-15	EAC	TV	OFU	145	72,135
10920183	1/18/2010	3:57:25	BRW-15	EAC	TV	OFU	80	39,423
E778288363	1/18/2010	4:02:00	DIS-12	ECF	TV	OCO	13	5,356
E455785854	1/18/2010	4:06:00	ELD-27	ECC	TV	OFC	1	244
E324908691	1/18/2010	4:18:00	ING-13	EBD	TV	OCO	83	18,292
E805585323	1/18/2010	4:27:00	NUG-25	EAA	TV	OCO	10	3,921
E568182356	1/18/2010	4:27:00	LLT-15	EBD	TV	OCO	4	1,268
E362564503	1/18/2010	4:31:00	JUA-13	EBD	TV	OCO	23	4,633
E149788354	1/18/2010	4:36:00	WIN-13	ECE	TV	OCO	1,180	317,420
E240016321	1/18/2010	4:38:00	TRA-26	ECE	TV	OCO	1	359
E632802523	1/18/2010	4:45:00	MOT-15	ECC	TV	OCO	6	4,998
E813583899	1/18/2010	4:49:00	COT-13	EBD	TV	OTR	3	1,732
E322779684	1/18/2010	4:49:00	LUH-14	ECC	TV	OFC	786	417,366
E577009818	1/18/2010	4:50:00	KIN-21	ECE	TV	OCO	32	17,152
E713874862	1/18/2010	4:55:00	WIN-15	ECE	TV	OCO	1,282	234,606
E145567651	1/18/2010	4:56:00	DEC-13	ECC	TV	OFU	50	33,450
E151902922	1/18/2010	4:59:00	VAS-13	EBL	TV	OCO	36	6,696
E231801852	1/18/2010	5:00:00	SIL-13	ECE	TV	OCO	29	9,512
E459700411	1/18/2010	5:04:00	PTL-13	ECF	TV	OCO	18	5,616
E575278100	1/18/2010	5:04:00	FAL-13	EBF	TV	OCO	9	6,844
10920182	1/18/2010	5:06:59	CRE-15	EAD	TV	OFU	5	16
E513810708	1/18/2010	5:11:00	MUR-13	ECE	TV	OCO	9	4,572
E990592883	1/18/2010	5:18:00	PTR-16	EAA	TV	OCO	174	49,646
E416643203	1/18/2010	5:19:00	TOT-23	EBD	EF	UFJ	6	2,194
E699774121	1/18/2010	5:22:00	MAN-12	ECD	TV	OTF	1	343
E791375805	1/18/2010	5:25:00	NOB-24	EBE	TV	OCO	12	3,453
E028683227	1/18/2010	5:26:00	CHA-13	ECC	TV	OFC	13	11,440
E509553269	1/18/2010	5:34:00	MIL-16	ECE	TV	OCO	106	18,656
E867212599	1/18/2010	5:36:00	SIN-25	ECD	TV	OCO	6	3,384
E879974839	1/18/2010	5:41:00	LLT-13	EBD	TV	OCO	34	18,295
E537007994	1/18/2010	5:44:00	GRV-15	ECA	EF	OCO	16	1,072
E072457464	1/18/2010	5:44:00	FLD-15	EAD	TV	OCO	5	5,985
E798794886	1/18/2010	5:51:00	GBK-15	EAD	TV	OCO	10	6,510
E872515344	1/18/2010	5:53:00	FRG-24	ECC	TV	OCO	42	14,658
E629044105	1/18/2010	5:57:00	BLU-17	ECC	TV	OFC	19	19,380
E972725516	1/18/2010	6:00:00	GBK-13	EAD	TV	OCO	130	127,236
E878681277	1/18/2010	6:01:00	FRG-23	ECC	TV	OCO	9	4,581
10920185	1/18/2010	6:14:28	CPV-15	EAD	UN	OFU	5	43

Qualifying Storm Event
January 17, 2010

NUMBER	DATE	TIME	CIRCUIT	AREA	CAUSE	EQT	CUST.OUT	CUST.MIN
E981511232	1/18/2010	6:19:00	DUV-12	EBD	TV	OCO	17	5,147
E107305002	1/18/2010	6:19:00	SUM-22	EAC	TV	OFU	283	36,507
E312661808	1/18/2010	6:20:00	LAC-13	ECC	TV	OCO	3,266	1,316,198
E445568887	1/18/2010	6:20:00	MIL-23	ECE	TV	OCO	12	6,936
E773880498	1/18/2010	6:27:00	KEA-15	ECF	TV	OCO	22	8,536
E412066320	1/18/2010	6:40:00	DUV-15	EBD	TV	OCO	13	3,768
E699828877	1/18/2010	6:45:00	PET-13	EAC	TV	OFU	134	13,179
E721192926	1/18/2010	6:51:00	PTL-16	ECF	TV	OPO	7	6,944
E589311536	1/18/2010	6:54:00	BLU-17	ECC	TV	OFC	193	209,598
10920346	1/18/2010	6:55:00	FLD-12	EAD	EF	OCO	20	7,980
E948959708	1/18/2010	7:06:00	BLS-01	EAA	UN		3,453	260,585
E855906028	1/18/2010	7:15:00	WLS-16	EAC	TV	OIN	40	6,267
E618095954	1/18/2010	7:17:00	LLT-16	EBD	TV	OCO	1	125
E740615153	1/18/2010	7:24:00	SCH-15	EAA	TV	OFU	15	3,272
E482955876	1/18/2010	7:29:00	MLK-12	EBE	TV	OSV	1	123
E514713954	1/18/2010	7:31:00	CPV-15	EAD	TV	OCO	10	7,204
E410625810	1/18/2010	7:35:00	FRA-16	ECD	TV	OCO	1	282
E985736908	1/18/2010	7:37:00	VAS-12	EBL	TV	OCO	6	1,326
E337556546	1/18/2010	7:47:00	MKI-16	ECC	TV	OCO	4	2,488
E710181361	1/18/2010	7:48:00	CAP-13	ECC	TV	OSV	2	512
E142804201	1/18/2010	7:52:00	AIR-23	ECC	TV	OCO	1,309	236,929
E901744092	1/18/2010	7:52:00	WAY-12	EBD	EF	OTF	4	759
E208071438	1/18/2010	7:53:00	PAT-13	ECC	TV	OCO	53	9,911
E216208992	1/18/2010	7:57:00	LON-25	ECC	TV	OCO	298	92,678
E402416460	1/18/2010	7:59:00	PLG-13	ECC	TV	OFC	19	8,360
E116702220	1/18/2010	8:02:00	SWD-11	ECE	TV	OFC	90	24,120
E318532110	1/18/2010	8:07:00	LOL-23	ECD	TV	OCO	1	263
E271688765	1/18/2010	8:09:00	HOL-15	ECA	TV	UTC	12	1,250
E665869159	1/18/2010	8:14:00	CRE-12	EAD	TV	OFU	10	1,660
E591376389	1/18/2010	8:30:00	WAU-25	EBI	SO	UPT	5	1,075
E846103678	1/18/2010	8:31:00	KEN-12	EAA	TV	OSV	6	1,126
E105847419	1/18/2010	8:37:00	KIN-23	ECE	EF	OTF	6	1,032
E611835880	1/18/2010	8:42:00	PLG-17	ECC	TV	OCO	14	7,182
E068200486	1/18/2010	8:42:00	ANA-15	EAC	EF	OFU	26	2,158
E251678618	1/18/2010	8:45:00	SWA-16	EAC	TV	OFU	534	17,560
E298984015	1/18/2010	8:49:00	BLU-13	ECC	TV	OFC	14	5,488
10925213	1/18/2010	8:57:00	MIL-17	ECE	TV	OCO	58	16,182
E391915678	1/18/2010	8:57:00	FNW-16	ECD	TV	OCO	3	339
E414822481	1/18/2010	8:57:00	MIL-17	ECE	TV	OCO	167	70,474
10920087	1/18/2010	9:00:00	CRE-15	EAD	EF	OCO	85	18,855
E574904896	1/18/2010	9:02:00	CHA-15	ECC	TV	OTF	4	1,112
E023826946	1/18/2010	9:06:00	VAS-13	EBL	TV	OCO	8	2,176
E404715604	1/18/2010	9:11:00	SCH-16	EAA	TV	OFU	17	1,447
10919949	1/18/2010	9:14:00	DUV-12	EBD	TV	OCO	5	1,640
E000116750	1/18/2010	9:20:00	WIN-13	ECE	TV	OCO	8	368
E127321087	1/18/2010	9:27:00	HAS-12	ECF	EF	USV	1	223
E676888840	1/18/2010	9:27:00	AIR-23	ECC	TV	OCO	153	115,821
10920122	1/18/2010	9:27:00	SUM-21	EAC	EF	OCO	5	290
E533404965	1/18/2010	9:31:00	ELD-27	ECC	TV	OSV	4	2,916
E501820192	1/18/2010	9:47:00	LYN-24	EAA	TV	OCO	18	4,698
E550481688	1/18/2010	9:50:00	SHE-25	ECE	TV	OCO	10	2,670
E274612121	1/18/2010	10:00:00	LAU-11	EAA	SO	UPT	6	540
E783712539	1/18/2010	10:06:00	POU-16	ECE	TV	OCO	10	980
E661347800	1/18/2010	10:12:00	PRI-13	ECC	TV	OFC	124	64,976
E071728634	1/18/2010	10:14:00	DEC-17	ECC	TV	OFC	8	3,808
E339371276	1/18/2010	10:15:00	FRG-25	ECC	TV	OFC	55	29,700
E170793269	1/18/2010	10:15:00	MCW-17	ECE	TV	OCO	4	844
E207505190	1/18/2010	10:16:00	PRI-13	ECC	TV	OFC	1,800	936,000
E755984103	1/18/2010	10:18:00	TRA-25	ECE	TV	OCO	1	42
E023939177	1/18/2010	10:27:00	FRA-13	ECD	TV	OFC	8	1,704

Qualifying Storm Event
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NUMBER	DATE	TIME	CIRCUIT	AREA	CAUSE	EQT	CUST.OUT	CUST.MIN
E050476748	1/18/2010	10:37:00	WIN-13	ECE	TV	OCO	2	90
E408446392	1/18/2010	10:42:00	POU-15	ECE	TV	OCO	3	372
E900791739	1/18/2010	10:49:00	GRV-12	ECA	TV	OCO	4	404
E899190362	1/18/2010	11:07:00	PMA-12	ECE	TV	OCO	3	159
E647576602	1/18/2010	11:10:00	SUM-22	EAC	TV	OFU	25	5,911
E846509762	1/18/2010	11:16:00	CRE-16	EAD	EF	UTR	4	1,616
E441254613	1/18/2010	11:31:00	MOT-14	ECC	TV	OSW	225	30,825
E064932103	1/18/2010	11:38:00	PET-13	EAC	TV	OTF	3	402
E949251532	1/18/2010	11:47:00	MKI-17	ECC	TV	OCO	42	4,788
10919977	1/18/2010	11:58:00	SOM-17	EBE	EF	USV	1	154
10920088	1/18/2010	12:00:00	CRE-15	EAD	TV	OTR	5	1,505
E112461936	1/18/2010	12:02:00	VIC-16	EBJ	PO	USV	1	157
E980505546	1/18/2010	12:04:00	SHE-15	ECE	TV	OCO	2	84
E886430017	1/18/2010	12:05:00	TAN-13	ECC	TV	OCO	32	2,464
E230977118	1/18/2010	12:33:00	CUS-13	EAA	TV	OFU	10	1,494
E760362425	1/18/2010	12:39:00	LON-17	ECC	TV	OCO	4	476
E823789435	1/18/2010	12:44:00	SWI-15	ECC	TV	OCO	99	14,751
E795356889	1/18/2010	12:47:00	PGA-13	ECE	TV	OCO	15	3,930
E818705802	1/18/2010	12:55:00	FLD-12	EAD	TV	OCO	250	35,750
E818654795	1/18/2010	12:59:00	PTL-13	ECF	TV	OCO	2	476
E882906324	1/18/2010	12:59:00	SWA-12	EAD	TV	OFU	40	2,264
E281662108	1/18/2010	13:00:00	MKI-14	ECC	TV	OCO	2	326
E988534867	1/18/2010	13:16:00	AIR-25	ECC	TV	OCO	1	108
E272350539	1/18/2010	13:16:00	IRO-16	ECF	TV	OCO	3	207
E742779225	1/18/2010	13:20:00	KEA-15	ECF	TV	OPO	5	2,900
10920089	1/18/2010	13:26:00	HXX-16	EAC	EF	OCO	5	1,185
E126496017	1/18/2010	13:35:00	SIL-13	ECE	TV	OCO	2	268
E039812046	1/18/2010	13:42:00	CHM-11	ECF	TV	OCO	3	1,104
E622171650	1/18/2010	13:49:00	PRI-23	ECC	TV	OCO	32	9,632
E329990092	1/18/2010	13:54:00	KIN-21	ECE	TV	OCO	27	5,832
E323971896	1/18/2010	13:54:00	LGY-12	EAD	TV	OTF	7	1,904
E278648228	1/18/2010	14:34:00	PRI-23	ECC	TV	CDH	13	3,328
10920348	1/18/2010	14:45:00	GBK-13	EAD	TV	OPO	40	6,760
E898121100	1/18/2010	14:53:00	MKI-17	ECC	TV	OSV	1	174
E417532729	1/18/2010	14:56:00	LON-23	ECC	TV	OTF	4	216
E803769642	1/18/2010	14:59:00	LAC-17	ECC	TV	OCO	25	3,075
E940342679	1/18/2010	15:03:00	PMA-16	ECE	TV	OCO	4	180
E816558737	1/18/2010	15:12:00	MOT-14	ECC	TV	OFC	5	1,870
E512203188	1/18/2010	15:17:00	FRG-22	ECC	TV	OSV	1	348
E108746294	1/18/2010	15:20:00	COT-13	EBD	EF	OTF	1	115
E887987732	1/18/2010	15:21:00	SWA-12	EAD	TV	OCO	15	7,419
E593649301	1/18/2010	15:39:00	LGY-16	EAD	TV	OCO	15	9,525
10919990	1/18/2010	15:44:00	ROS-21	EBE	EF	USV	1	38
E695293568	1/18/2010	15:46:00	ROC-16	ECC	TV	OCO	1,598	207,740
E428126325	1/18/2010	16:08:00	LUH-14	ECC	TV	OSV	1	178
E284965029	1/18/2010	16:12:00	BLU-16	ECC	TV	OFC	14	4,690
E581411143	1/18/2010	16:13:00	HXX-16	EAC	TV	OSV	1	203
E041071291	1/18/2010	16:14:00	LEA-16	EBI	TV	OCO	1,967	118,020
10919971	1/18/2010	16:31:00	MAP-13	EBE	AO	OTR	13	3,432
E818101644	1/18/2010	16:31:00	MAP-13	EBE	TV	OCO	3	807
E232333244	1/18/2010	16:45:00	PTR-16	EAA	TV	OFU	2	158
10920121	1/18/2010	16:54:00	GBK-13	EAD	EF	OCO	5	730
E194589003	1/18/2010	17:07:00	FLD-12	EAD	EF	OCO	21	6,909
E851418022	1/18/2010	17:09:00	SCH-15	EAA	TV	OTF	1	333
E090796374	1/18/2010	17:13:00	PGA-13	ECE	TV	OFC	2	268
E696225352	1/18/2010	17:19:00	ELD-23	ECC	TV	OTF	2	520
E346420944	1/18/2010	17:25:00	LAC-13	ECC	TV	OFC	5	1,680
10920466	1/18/2010	17:29:06	BRO-15	EAD	EF	USV	1	61
E731597237	1/18/2010	17:42:00	EVE-23	EBD	TV	OFU	1	292
E510520192	1/18/2010	17:43:00	CHA-15	ECC	TV	OFC	4	908

Qualifying Storm Event
January 17, 2010

NUMBER	DATE	TIME	CIRCUIT	AREA	CAUSE	EQT	CUST.OUT	CUST.MIN
E182991846	1/18/2010	17:57:00	PTL-16	ECF	TV	OCO	20	6,520
E741653588	1/18/2010	17:58:00	SHD-18	EBI	TV	OFU	1	124
E050181726	1/18/2010	17:59:00	FLD-13	EAD	TV	OCO	15	6,855
E864175300	1/18/2010	18:06:00	ROC-17	ECC	TV	OFC	7	1,834
10920349	1/18/2010	18:08:00	GBK-13	EAD	TV	OCO	12	4,584
E389165348	1/18/2010	18:21:00	OBY-16	ECC	TV	OSV	1	63
E340444845	1/18/2010	18:25:00	SWD-12	ECE	TV	OCO	3	269
E471243046	1/18/2010	18:25:00	ELD-25	ECC	EF	UPC	6	3,552
E347451739	1/18/2010	18:32:00	ROC-26	ECC	TV	OFC	7	2,597
E582753521	1/18/2010	18:33:00	GRI-16	ECC	TV	OFC	4	1,212
E480150263	1/18/2010	18:44:00	CUM-15	EBI	TV	OJU	66	19,800
E963708993	1/18/2010	18:57:00	GRI-13	ECC	TV	OFC	5	890
E972412300	1/18/2010	19:13:00	LEA-16	EBJ	EF	OJU	43	3,730
E526365642	1/18/2010	19:21:00	WOL-25	ECC	EF	OTF	5	185
E261294266	1/18/2010	19:25:00	SHE-15	ECE	TV	OCO	1	117
E862880661	1/18/2010	19:26:00	TAN-16	ECC	TV	OCO	10	920
E511074955	1/18/2010	19:45:00	OSC-22	EBI	TV	OFC	210	16,387
E414430549	1/18/2010	19:58:00	LYN-24	EAA	TV	OCO	5	1,808
E758773028	1/18/2010	20:08:00	MAP-13	EBF	TV	OCO	1	48
E637333245	1/18/2010	20:10:00	OSC-23	EBI	TO	OCO	810	39,204
10920022	1/18/2010	20:41:00	SHD-18	EBI	TV	OCO	7	1,918
E626488405	1/18/2010	20:41:00	SHD-18	EBI	TV	UTC	8	1,883
E189218659	1/18/2010	21:21:00	AIR-22	ECC	TV	OFC	3	585
E480601659	1/18/2010	21:23:00	OSC-22	EBI	TV	OCO	33	18,447
E641836355	1/18/2010	21:39:00	ELD-23	ECC	TV	OFC	4	324
E917965787	1/18/2010	21:41:00	MWD-13	EBE	TV	OSV	8	712
E485423003	1/18/2010	21:47:00	BLU-16	ECC	TV	OFC	8	936
E375535674	1/18/2010	22:18:00	EGT-25	EBF	TV	OCO	2	1,096
E331011577	1/18/2010	22:19:00	WIS-13	EBF	TV	OCO	9	1,387
E735087053	1/18/2010	22:20:00	AIR-23	ECC	TV	OCO	2	160
E731950973	1/18/2010	22:22:00	GRI-15	ECC	TV	OFC	1	145
E461704869	1/18/2010	23:06:00	PRI-23	ECC	TV	OTF	1	64
E014632125	1/18/2010	23:37:00	PGA-13	ECE	TV	OCO	5	848
E790280832	1/18/2010	23:43:00	PAT-15	ECC	EF	UPC	16	8,784
E296274179	1/18/2010	23:51:00	GRI-13	ECC	TV	OFC	1	153
E450506860	1/18/2010	23:53:00	KIT-25	EBH	EF	OTF	1	112

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

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
	TV – Trees/Vegetation	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

Media Coverage



Weekly news for the citizens of
Issaquah, WA

Friday, January 15, 2010

Students, driver are OK after downed power lines block bus

By Chantelle Lusebrink

Downed power lines blocked an Issaquah School District bus carrying students to Pacific Cascade Freshman Campus earlier this morning.

Puget Sound Energy officials assessed the situation and allowed the bus to leave the area, in the 19000 block of Southeast 24th Street near Pine Lake Middle School, at 8:25 a.m. The students and the driver remained inside the bus for safety.

While driving to Pacific Cascade, the bus driver encountered windy conditions and a fallen tree. The tree had caused several power lines to come down on the roadway, Sara Niegowski, district communications director, wrote in an e-mail.

The bus driver stopped the bus and called district officials. King County Sheriff's Office deputies and Puget Sound Energy workers responded to the scene, Niegowski wrote.

There were only a few students on the bus and their parents were notified, she wrote.



High winds knock out power in Western Washington

SEATTLE - High winds knocked out electrical service for more than 50,000 utility customers on Monday morning.

KING 5 Meteorologist Rich Marriott said gusts reached 55 mph in Olympia, 59 mph in Eatonville and 52 on Camano Island. On Crystal Mountain, a wind gust of 113 mph was recorded, and at Hurricane Ridge a gust of 87 mph was recorded.

Puget Sound Energy reported nearly 40,000 customers out of service. Spokeswoman Lindsey Walimaki said the hardest hit areas were Thurston County and Kitsap County, especially Poulsbo.

In Mason County, about 750 customers were without power. In Clallam County, 10,000 customers lost power.

A spokesman for the Snohomish County PUD, Neil Neroutsos, reported a peak of 9,000 outages, mostly around Arlington and Camano Island.

The Cowlitz County PUD reported more than 5,000 outages, including the Kelso area.

A large tree fell over the roadway at 27600 Issaquah Fall City Road, tangling wires as it came down.

A flood warning remains in effect for the Skokomish River near Potlatch.

A coastal flood advisory is in effect for minor tidal overflow from Puget Sound to the north interior until Tuesday morning.

The National Weather Service says minor tidal overflow may occur along some of the shorelines and low-lying areas around the time of high tide.

Minor tidal overflow problems usually begin at 13.5 feet around Seattle and 11.5 feet around Bellingham and the current forecasts for those areas just exceed those levels. Wind could cause water to pile up along shorelines.

KING 5 Meteorologist Rich Marriott said another weaker weather system will move in from the south later this afternoon for increasing showers.

"It's going to turn a little windy mainly north of Everett overnight tonight and turn a little wet," he said.

The main storm track will be shifted to the south of us this week.

Qualifying Storm Event
January 17, 2010

"We should just be brushed by the northern edge of these storms. The next system will move in early on Tuesday morning for another round of rain," he said. "The low will be tracking farther off the coast so it should only turn windy north of Everett on Tuesday."

Wednesday through Saturday the storms will head into California for partly sunny weather in Western Washington and only an occasional chance of a shower.



January 18, 2010

Storm Plunges Areas Into Darkness, Topples Trees

SEATTLE -- Road crews and homeowners are cleaning up after winds knocked out power to thousands of people across the Puget Sound overnight and caused problems on a number of roads blocked by toppled trees and power lines.

At the height of the storm, power was knocked out to more than 50,000 customers around Western Washington.

The hardest hit areas included Thurston, Jefferson and Kitsap Counties.

Puget Sound Energy reported nearly 40,000 outages, Cowlitz County PUD reported more than 5,000 outages, and Snohomish County PUD reported a peak of 9,000 customers without power, mostly around Arlington and Camano Island.

Seattle City Light reported scattered outages.

Wind gusts in Everett and Olympia hit 56 mph and 60 mph in Hoquiam early Monday.

The high winds also knocked out power throughout Snohomish County and power was cut in downtown Everett.

The rain and wind also caused problems on roads across the region.

In south Seattle, rain-saturated ground toppled a utility pole onto a 26,000-volt line directly above a house on 26th Avenue South, and in West Seattle, a tree came down across the main Lincoln Park waterfront path.

In Auburn, a tree across power lines and Auburn Way South could not be cleared until power crews arrived, and in Renton, a blown transformer took out power to the neighborhood uphill from the Renton Airport.

KIRO News crews captured footage of a tree on the roof of a home on Camano Island.

Westbound state Route 18 remains closed after heavy rains last week caused the hillside to give way. On Sunday, bulldozers removed some of the dirt. The slope hadn't been stable enough for workers to evaluate the hillside until then.

DOT crews said they expect to have the lanes open by Wednesday.

Highway 2 reopened Sunday near Leavenworth after a truck-sized boulder crashed onto the road Friday, leaving a gaping hole about 5 feet deep. Crews spent Saturday blowing it up and then hauled away 12 dump truck loads of debris.

The winds have since eased, but KIRO 7 meteorologist Sam Argier said more breezy weather is expected Monday night.

Argier said a combination of an area of low pressure, strong wind and the high astronomical tide have combined to bring a coastal flood advisory through 11 a.m. for the coast around Puget Sound. Minor shoreline overflow is expected.



Windy weather leaves some in the dark -- at least for a few hours

By Paige Dickerson
Peninsula Daily News

Winds whipping through the North Olympic Peninsula left about 10,000 Clallam County residents and about 136 Jefferson County residents without power early Monday.

The power outages happened at about 1 a.m. and most customers had power back by daylight in Clallam County, said Jeff Beaman, spokesman for Clallam County Public Utility District.

In Jefferson County outages occurred at about 1 a.m. -- the height of the windstorm -- and stretched until about 4 p.m., said Dorothy Bracken, spokeswoman for Puget Sound Energy, which provides power to East Jefferson County.

"Throughout our entire coverage area at the height of the outage, we had 40,000 people without power -- with the vast majority of those in Thurston County," she said.

"So in comparison to the rest of the area, our Jefferson County customers were not as hard hit."

Bonneville line

Beaman said the majority of the Clallam outages were on the Bonneville Power Administration's transmission line, which provides power to the Happy Valley Substation south of Sequim.

"I am not sure exactly what happened to those lines, but I'm told that it was a wind-related event," he said.

"They are farther downstream than the ones that our crews work on."

Most of the 10,000 customers who lost power were in the Sequim-Dungeness Valley, but scattered Clallam PUD customers in the Forks and Neah Bay areas were also blacked out by trees falling on lines, Beaman said.

The highest reported winds on the North Olympic Peninsula were in the Port Townsend area, said Dana Felton, meteorologist for the National Weather Service

"The peak winds there were 46 mph sustained with gusting up to 61 mph," Felton said.

"We don't have a recorded time with that but it was between the 4 a.m. and 8 a.m. time window."

Washington State Ferries canceled all of the morning Port Townsend and Keystone sailings of the Steilacoom II across Admiralty Inlet until 11:30 a.m. because of the winds.

Port Angeles and Sequim were fairly sheltered, he said.



THE BELLINGHAM HERALD

Monday, Jan. 18, 2010

Strong winds knock out power in Bellingham

ISABELLE DILLS - THE BELLINGHAM HERALD

A windstorm early Monday, Jan. 18, knocked out power around Bellingham, while unusually high tides caused some minor flooding along the coast.

Puget Sound Energy reported outages in nine areas around Bellingham. Crews worked through the morning to restore power to customers, a PSE spokeswoman said.

The windstorm produced sustained winds of 36 mph, with gusts up to about 60 mph, according to the National Weather Service.

Mt. Baker Ski Area remained open Monday despite overnight gusts of 50 to 65 mph, said operations manager Gwyn Howat. By noon Monday, the ski area was sunny and the wind was calm.

Morning flooding occurred in some low-lying areas, such as Roeder Avenue, but no serious problems were reported. The water receded as the tide went out.

Minor tidal overflow is expected from 5 to 11 a.m. Tuesday. Bellingham's high tide will occur about 8:15 a.m., cresting at 11 ½ feet — almost 2 feet above usual high tide.

Winds could cause water to build up around shorelines, as well. Tides should be slightly lower Wednesday, but there's still a possibility of some flooding, according to the National Weather Service.

The forecast calls for rain through Friday. Tuesday is expected to be cloudy, with a 50 percent chance of rain, with winds of 14 mph.