

2009 Qualifying Storm Events

November 16, 2009

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Event Description

Date of event

November 16, 2009

Event Type

Wind storm.

Service Areas Affected

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

Number of Customers Affected

Approximately 50,200 customers were without power over the course of this outage event.

Summary of System Impacts

Total Number of Outages	461
Distribution Circuits Totally Out	17
Distribution Circuits Partially Out	444

Transmission Circuits Affected	10
Substations Totally Off-line	3

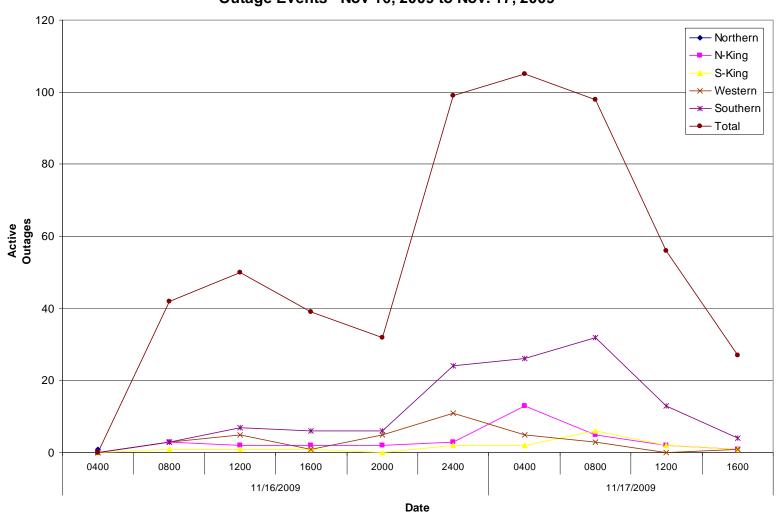
Mobilization Summary

Operating Bases

Base	Date Opened	Time Opened	Date Closed	Time Closed
Kitsap	11/16/2009	23:15	11/17/2009	13:00
Jefferson	11/16/2009	23:15	11/17/2009	13:00
Whatcom	11/17/2009	00:00	11/17/2009	21:30
Skagit	11/17/2009	00:00	11/17/2009	16:30
Island	11/17/2009	00:00	11/17/2009	16:30

Emergency Operations Center

FOC	Date Opened	Time Opened	Date Closed	Time Closed	
EOC	11/17/2009	01:10	11/17/2009	10:45	



Outage Events - Nov 16, 2009 to Nov. 17, 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 (Alpha + 2.5 * 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
11/16/2009	13,172,993	1,078,555	12.21

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	\$499,136
11/16/2009	12.21	\$1,155,567

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	\$0	\$27,264	\$0	\$36,325	\$588,391	\$624,716	\$651,981
11/05/2009	\$0	\$27,890	\$0	\$33,627	\$499,136	\$532,763	\$560,654
11/16/2009	\$0	\$356,707	\$0	\$56,177	\$1,155,567	\$1,211,744	\$1,568,451

YTD Storm Restoration Cost Detail – Through Nov 16, 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	\$411,861	\$0	\$126,129	\$2,243,94	\$2,369,223	\$2,781,085

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 Soun	d Energy							
	November 16, 2009 Storm Damage Repair Costs										
	Qualifying Events Deferred Account	Capital	C&D Recoverable from Direct Billings (Costs Not Yet Billed)	O&M - Not Deferrable		M - Deferrable ccumulation	То	otal O&M	Total		
Labor											
ST		\$ 41,060			\$	37,397		\$37,397	\$78,457		
OT					\$	54,002		\$54,002	\$54,002		
Total Labor	\$0	\$ 41,060	\$0	\$0	\$	91,398		\$91,398	\$132,458		
Labor OH		\$ 28,007			\$	38,027		\$38,027	\$66,034		
Materials		\$117,194			\$	65,573		\$65,573	\$182,767		
Contractors		\$102,315			\$	922,446		\$922,446	\$1,024,761		
Other Direct Charges					\$	3,261		\$3,261	\$3,261		
Fleet		\$ 4,544			\$	14,653.95		\$14,654	\$19,198		
Other Assessments		\$ 63,588		\$ 56,177	\$	20,207	\$	76,384	\$139,971.42		
Deferred Expenses						\$0		\$0	\$ -		
	\$0	\$356,707	\$0	\$56,177	\$	1,155,567	\$	1,211,744	\$1,568,451		

IEEE-1366 - Detailed List of Distribution Circuits with O	utages
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							Cust	Cust
Notification	Date	Time	Circuit	Area	Cause	Equipment	Outs	Mins
E781809882	11/16/2009	22:55:00	BCH-15	EAA	TF	осо	16	16,160
E377384821	11/16/2009	10:35:00	SEH-12	EAA	ТО	OTH	12	2,664
E574086580	11/16/2009	11:35:00	HAP-13	EAA	TF	000	13	4,264
E641761198	11/16/2009	22:51:00	VIK-25	EAA	ТО	OTR	41	29,438
E438982296	11/16/2009	20:10:00	RIV-15	EAC	TF	000	247	28,790
E420356581	11/16/2009	22:45:00	LLS-15	EAA	TO	OSW	102	135,864
E251451965	11/16/2009	7:19:00	PTR-14	EAA	TO	OPO	22	40,458
E437798514	11/16/2009	5:38:00	LYN-23	EAA	TO	OPO	93	44,454
E751858240	11/16/2009	22:54:00	LLS-17	EAA	TF	OPO	54	43,254
E384183763	11/16/2009	18:57:00	HKX-12	EAC	TO	OPO	78	15,514
E245546847	11/16/2009	23:46:00	WLS-16	EAC	TO	000	1	641
E216851290	11/16/2009	6:09:00	CRE-13	EAD	TO	OTR	2	1,704
E254083655	11/16/2009	22:05:00	PET-12	EAC	TO	000	9	4,581
E345670008	11/16/2009	22:28:00	MTV-17	EAC	TF	OSV	3	1,311
E526223294	11/16/2009	4:33:00	BRI-15	EAA	TF	000	27	16,524
E464968073	11/16/2009	22:23:00	BRI-15	EAA	TF	000	38	28,652
E405925900	11/16/2009	22:24:00	LAU-14	EAA	TF	000	4	4,108
E961590489	11/16/2009	8:28:00	HAN-16	EAA	TF	OJU	3	2,001
E236048595	11/16/2009	7:44:00	CPV-13	EAD	TO	000	17	8,976
E246592610	11/16/2009	7:08:00	NLM-16	EAC	TO	000	10	1,840
E474911593	11/16/2009	23:15:00	HKX-16	EAC	TF	OPO	5	1,425
E485112999	11/16/2009	23:00:00	LYN-26	EAA	TO	OPI	35	19,495
E854607487	11/16/2009	17:58:00	VIK-23	EAA	TO	CDH	30	14,010
E597449539	11/16/2009	21:04:00	LGY-12	EAD	TF	OTR	4	1,664
E298078885	11/16/2009	17:34:00	BIG-15	EAC	TO	000	21	3,003
E481315155	11/16/2009	22:45:00	CAR-15	EAA	TO	OTR	16	14,880
E896384130	11/16/2009	22:58:00	BCH-16	EAA	TO	OPO	44	53,064
E398541928	11/16/2009	23:32:00	KIN-21	ECE	TO	000	23	11,413
E247422162	11/16/2009	12:41:00	BLA-13	EAA	EF	UPC	50	4,950
E844981513	11/16/2009	22:30:00	ROE-13	EAA	TO	OPO	7	6,216
E911725976	11/16/2009	20:03:00	NLM-16	EAC	TO	000	21	10,500
E235782252	11/16/2009	6:00:00	CLV-15	EAD	TO	000	6	1,806
E463804722	11/16/2009	23:12:00	ALG-15	EAA	TO	OHR	246	218,193
E995935979	11/16/2009	12:38:00	BIG-15	EAC	TO	000	33	9,141
E738334366	11/16/2009	1:27:00	BIG-15	EAC	TO	000	32	19,296
E119056457	11/16/2009	16:53:00	HAM-15	EAC	TO	000	7	2,366
E541211085	11/16/2009	6:03:00	GBK-13	EAD	TO	000	10	5,380
E302208561	11/16/2009	22:47:00	NUG-25	EAA	TF	OFC	5	5,155
E936285682	11/16/2009	17:47:00	ALG-15	EAA	TF	000	3	969
E697668845	11/16/2009	21:32:00	PGA-15	ECF	ТО	OTR	3	1,791
E839314611	11/16/2009	6:18:00	ALG-15	EAC	ТО	000	5	1,810
E953743333	11/16/2009	10:44:00	VIK-23	EAA	ТО	CDH	68	19,856
E861842326	11/16/2009	23:19:00	HAN-13	EAA	ТО	OPO	12	15,768
E104960251	11/16/2009	12:34:00	SCH-15	EAA	ТО	000	161	158,746

Notification	Date	Time	Circuit	Area	Cause	Equipment	Cust Outs	Cust Mins
E814114895	11/16/2009	6:37:00	VWY-12	EAA	TF	000	35	16,555
E509307112	11/16/2009	8:41:00	SCH-16	EAA	то	CDH	24	4,680
E710744711	11/16/2009	12:32:00	BTN-35	EAC	то	OFC	17	3,808
E855557622	11/16/2009	13:46:00	LYN-23	EAA	TF	000	161	67,942
E910930580	11/16/2009	7:02:00	BTN-38	EAC	то	OPO	26	3,368
E348370424	11/16/2009	16:28:00	BTN-35	EAC	EF	OTF	1	67
E224297027	11/16/2009	14:06:00	SCH-16	EAA	то	OPO	28	16,772
E929434965	11/16/2009	1:34:00	CPV-15	EAD	TF	000	19	13,316
E843542062	11/16/2009	22:33:00	VWY-13	EAA	то	CDH	15	18,495
E773517124	11/16/2009	21:37:00	KEN-12	EAA	TF	000	1,253	978,593
E384916177	11/16/2009	7:11:00	NUG-26	EAA	TF	000	62	34,844
E307777940	11/16/2009	9:03:00	SLA-17	EAA	то	OSW	2	902
E263836128	11/16/2009	22:52:00	MCK-12	EAA	TF	000	91	36,218
E603878240	11/16/2009	23:58:00	SCH-13	EAA	то	000	19	1,197
E112074139	11/16/2009	23:45:00	PLY-13	EAA	ТО	OPO	7	8,631
E820332488	11/16/2009	5:06:00	NUG-25	EAA	TF	000	12	5,916
E973034746	11/16/2009	23:22:00	BRW-15	EAC	то	000	5	4,080
E834333678	11/16/2009	14:28:00	GLA-12	EAA	TF	OPI	73	41,683
E190698401	11/16/2009	11:48:00	BRW-15	EAC	ТО	000	8	1,920
E019388787	11/16/2009	22:41:00	MCK-15	EAA	PO	OCN	9	11,781
E544938134	11/16/2009	14:38:00	WOB-25	EAA	ТО	OTF	1	215
E839476728	11/16/2009	22:15:00	FLD-15	EAD	то	OPI	847	689,458
E719830809	11/16/2009	9:13:00	HLC-23	EAD	то	OPO	1,062	201,708
E593434098	11/16/2009	22:16:00	KEN-13	EAA	TF	000	363	144,837
E751034012	11/16/2009	9:01:00	SCH-13	EAA	ТО	OFC	135	117,315
E544169846	11/16/2009	22:55:00	LLS-13	EAA	TF	000	35	11,095
E254544846	11/16/2009	23:50:00	VIS-26	EAA	то	ULO	1	937
E900695601	11/16/2009	11:34:00	HAP-16	EAA	PO	OSV	1	861
E137685007	11/16/2009	21:14:00	NUG-26	EAA	ТО	000	96	110,016
E817946576	11/16/2009	15:32:00	SUM-21	EAC	TF	OFC	9	1,404
E764327048	11/16/2009	8:38:00	KEN-12	EAA	TF	000	99	69,696
E193383337	11/16/2009	22:52:00	PMA-12	ECE	то	000	871	539,149
E410369966	11/16/2009	23:04:00	MIL-22	ECE	то	000	10	6,350
E072976726	11/16/2009	16:02:00	BIG-12	EAC	TF	000	14	2,268
E901390209	11/16/2009	22:06:00	VWY-15	EAA	то	OFC	332	368,188
E542609911	11/16/2009	8:22:00	LAB-23	EAA	TF	OHR	75	22,950
E848365143	11/16/2009	21:07:00	CHI-12	ECD	то	000	1,221	416,262
E672538225	11/16/2009	5:11:00	BIG-12	EAC	то	000	155	95,945
E388589806	11/16/2009	2:32:00	HAN-15	EAA	то	OSV	9	5,058
E986896739	11/16/2009	2:32:00	SUM-21	EAC	TF	000	76	53,884
E522709751	11/16/2009	22:30:00	SIL-13	ECE	то	000	40	34,880
E480388352	11/16/2009	21:07:00	CHI-12	ECD	то	000	992	557,543
E849714306	11/16/2009	14:00:00	HAM-13	EAC	то	000	102	88,332
E663195268	11/16/2009	5:02:00	ALG-12	EAC	то	OPO	94	17,452
E238918759	11/16/2009	21:47:00	SME-15	EBE	TF	000	1,261	144,431
E444598751	11/16/2009	23:02:00	COT-13	EBD	то	000	39	7,211
E213982250	11/16/2009	13:42:00	FAL-13	EBF	ТО	000	8	1,999
E752958615	11/16/2009	18:26:00	NHL-15	EBD	EF	UFJ	68	21,488
E761247996	11/16/2009	4:14:00	KLA-15	EBD	то	000	221	96,781

Notification	Date	Time	Circuit	Area	Cause	Equipment	Cust Outs	Cust Mins
E279463485	11/16/2009	10:31:00	LMC-23	EBF	EF	UPC	2	1,136
E142214504	11/16/2009	4:41:00	CLV-16	EAD	то	000	48	4,752
E437058367	11/16/2009	5:22:00	BLA-13	EAA	ТО	000	691	80,806
E049777908	11/16/2009	1:14:00	WOB-25	EAA	TF	000	8	2,078
E211142042	11/16/2009	1:00:00	SLA-15	EAA	EF	000	896	254,210
E177771667	11/16/2009	2:42:00	SCH-16	EAA	TF	000	236	67,968
E233251467	11/16/2009	1:31:00	CRE-12	EAD	то	000	9	10,548
E368613816	11/16/2009	10:26:00	ORC-17	EBJ	TF	000	2	182
E068788442	11/16/2009	9:28:00	FWD-17	EBJ	EF	000	3	411
E659893181	11/16/2009	11:45:00	WAB-13	EBI	ТО	000	25	5,407
E651300361	11/16/2009	5:34:00	OSC-22	EBI	EF	UPC	2	742
E533086744	11/16/2009	20:20:00	FRG-22	ECC	EF	000	291	41,134
E649280621	11/16/2009	5:51:00	BLU-13	ECC	TF	000	6	1,398
E830423674	11/16/2009	9:47:00	GRI-16	ECC	TF	OPS	3	735
E220823788	11/16/2009	9:22:00	DGR-13	ECA	TF	000	5	1,330
E699439671	11/16/2009	19:07:00	PRI-23	ECC	ТО	000	3	856
E408439181	11/16/2009	5:43:00	LON-22	ECC	TF	000	3 7	2,128
E391981522	11/16/2009	2:37:00	FRG-24	ECC	ТО	000	5	1,555
E388638101	11/16/2009	22:02:00	HEM-16	ECA	TF	OSV	1	368
10911646	11/16/2009	18:30:00	DGR-15	ECA	EF	USV	1	399
E502963243	11/16/2009	18:28:00	RAI-13	ECC	EF	OTR	11	4,873
E130921261	11/16/2009	21:38:00	DGR-13	ECA	TO	000	14	6,225
10911394	11/16/2009	3:29:00	LUH-14	ECC	EF	OPO	2	990
E959020016	11/16/2009	10:36:00	GRI-14	ECC	TF	OTR	39	26,013
E778299668	11/16/2009	14:46:00	QUI-25	ECF	EF	000	4	20,013
E178055042	11/16/2009	20:31:00	SHE-15	ECE	TO	OFC	55	8,580
E294717454	11/16/2009	18:21:00	QUI-25	ECF	EF	OTR	1	238
E989390399	11/16/2009	20:21:00	VAS-22	EBL	TO	OSV	1	255
E233674377	11/16/2009	16:23:00	SHE-26	ECE	ТО	000	7	2,339
E376572252	11/16/2009	1:13:00	CHI-12	ECD	ТО	000	5	1,735
E232227178	11/16/2009	8:37:00	TRA-23	ECE	ТО	000	7	2,492
10911651	11/16/2009	0:06:00	QUI-26	ECF	TF	000	3	1,080
E427793272	11/16/2009	12:20:00	MIL-16	ECE	TF	OTR	3	1,080
E994277672	11/16/2009	20:11:00	DIS-12	ECF	ТО	000	23	8,970
E482248556	11/16/2009	15:07:00	VAS-23	EBL	EF	UEL	23	857
E830850358	11/16/2009	12:19:00	PGA-13	ECE	TO	000	59	25,447
E919821802	11/16/2009	4:29:00	PTL-16	ECF	ТО	OCR	1,078	476,476
E307749109	11/16/2009	10:22:00	VAS-12	EBL	ТО	OTR	7	3,382
E814365325	11/16/2009	8:18:00	POU-16	ECE	ТО	OSV	3	3,302 1,476
E014303325 E027114665	11/16/2009	21:11:00	PMA-15	ECE	ТО	000	2	1,470
E921992317	11/16/2009	10:19:00	VAS-13	EBL	ТО	000	50	29,558
E968344076	11/16/2009	21:58:00	PGA-12	ECE	ТО	000	20	11,960
E986845910	11/16/2009	3:04:00	QUI-25	ECE	ТО	000	20 14	9,646
	11/16/2009		VAS-13	EGF	ТО	000	14 14	9,646 9,982
E507003111 E642057895	11/16/2009	21:52:00 23:28:00		ECE		OCO		
			CHR-22		TO		55 1	51,590
E347952648	11/16/2009	17:46:00	OBY-16	ECC	EF	USV OCO	1	156
E049996926	11/16/2009	8:13:00 6:14:00	ING-16	EBD	TO TE		1	47 49
E664327192	11/16/2009	6:14:00	HAZ-12	EBE	TF	OTF	1 1 4 4 5	48 110 472
E300960917	11/16/2009	23:06:00	PIN-26	EBF	TO	000	1,645	119,473

Notification	Date	Time	Circuit	Area	Cause	Equipment	Cust Outs	Cust Mins
E386362924	11/16/2009	6:37:00	DUV-12	EBD	ТО	000	4	296
E643980301	11/16/2009	8:59:00	DUV-15	EBD	TF	OFU	3	228
E845601821	11/16/2009	8:37:00	COT-13	EBD	то	000	2	162
E728612027	11/16/2009	22:23:00	MER-16	EBE	то	000	55	4,722
E851098592	11/16/2009	3:23:00	OVE-15	EBE	то	000	543	49,413
E188503136	11/16/2009	1:44:00	EGT-28	EBE	то	000	1,582	156,882
E185123704	11/16/2009	21:46:00	TOT-22	EBD	то	000	160	16,341
E413797345	11/16/2009	6:43:00	ING-13	EBD	EF	000	13	1,430
E111938269	11/16/2009	3:41:00	LMC-23	EBF	TO	000	6	667
E439364887	11/16/2009	19:15:00	NBO-26	EBD	то	000	9	1,039
E359512775	11/16/2009	23:48:00	MED-37	EBE	EF	OFU	, 1	116
E016112467	11/16/2009	4:29:00	ING-15	EBD	TO	000	6	714
E448243689	11/16/2009	22:38:00	JUA-13	EBD	EF	OLO	3	432
E436250144	11/16/2009	5:30:00	SPI-17	EBD	TO	000	5 7	1,127
E452048853	11/16/2009	12:09:00	SCH-16	EAA	то	OFU	, 17	17
E959548431	11/16/2009	13:08:00	LAB-27	EAA	то	OFU	1	52
E381419001	11/16/2009	4:02:00	BCH-13	EAA	то	OFU	10	620
E797937870	11/16/2009	4:02:00 14:06:00	PET-12	EAC	EF	OFU	2	148
E722555482	11/16/2009	20:52:00	MCK-16	EAA	TO	OFU	60	4,980
E722555482 E477477840	11/16/2009	19:15:00	LGY-16	EAD	TF	OFU	50	4,980
E477477840 E226322624	11/16/2009	17:49:00	NLM-13	EAD	TF	UTC	2	4,250
E220322024 E914715677	11/16/2009	17:56:00	CPV-12	EAD	ТО	OFU	2	102
E914715077 E140183273	11/16/2009	12:56:00	SWA-13	EAD	EF	010	12	1,308
E 140 1832 73 E 620254819	11/16/2009	20:07:00	VIS-26	EAD	TF	OSV	3	357
E561793719	11/16/2009	20:07:00	MCK-16	EAA	ТО	000	5 958	357 122,624
E244071865	11/16/2009	20:50:00	LYN-23	EAA	то	OFU	958 8	1,040
E034391067	11/16/2009	12:25:00	HAM-15	EAC	то	OFU	9	1,040
E034391007 E396671170	11/16/2009	0:47:00	CPV-13	EAD	то	010	9 574	75,768
E537708124	11/16/2009	1:36:00	CPV-13 CPV-12	EAD	EF	OFU	5	724
E980068295	11/16/2009	22:33:00	BLA-13	EAD	TO	010	683	100,401
E980008295 E058076092	11/16/2009	1:32:00	BLA-13 BLA-13	EAA	TF	OFU	40	6,429
E058078092 E759420010	11/16/2009	2:53:00	NUG-26	EAA	TF	OFU	40 10	0,429 1,710
E197430219	11/16/2009	2:53:00 8:11:00	CAR-15	EAA	ТО	OFU	7	1,288
E 197430219 E 452289202	11/16/2009				то	OFU	4	764
E452269202 E050118463	11/16/2009	14:19:00 6:52:00	VWY-15 MCK-12	EAA EAA	то	000	4 236	
E030118463 E186422950	11/16/2009		SEH-11	EAA	то	OFU	230	48,616 426
E 180422950 E 326660908	11/16/2009	9:17:00 16:46:00	NUG-26	EAA	EF	OFU	2 13	420 2,912
E320000908 E687773649	11/16/2009	2:11:00	KEN-13	EAA	TF	000	13 21	
						000		4,809
E556591732	11/16/2009	6:42:00	OLD-26	EAA	TO EF	OCO	200	51,000
E714408250	11/16/2009	5:43:00	MTV-16 MCK-16	EAC			12 05.0	3,084
E704171405	11/16/2009	5:59:00		EAA	TO	000	958	248,122
E110890346	11/16/2009	7:21:00	HAM-01	EAC	WT	SWD	2,029	525,511 1,020,226
E414702084	11/16/2009	4:34:00 7:45:00	VIK-01	EAA	WT	SWD	3,907	1,030,336
E571728102	11/16/2009	7:45:00	RIT-19	EAC	TO TE	000	6 27	1,626
E826392000	11/16/2009	2:30:00	GLA-12	EAA	TF	OFU	27	7,695
E084070593	11/16/2009	22:55:00	HAN-16	EAA	TF	000 015	1,014	292,032
E568832034	11/16/2009	10:38:00	PLY-16	EAA	TO TO	OTF	3	876
E487763528	11/16/2009	12:07:00	ALG-15	EAA	TO TO	OFU	10 22	2,980
E109817706	11/16/2009	1:08:00	NLM-16	EAC	ТО	OFU	22	7,122

Notification	Date	Time	Circuit	Area	Cause	Equipment	Cust Outs	Cust Mins
E983069347	11/16/2009	8:52:00	BIG-16	EAC	EF	OCN	5	1,665
E639563640	11/16/2009	23:04:00	SST-17	EAA	то	OFU	25	8,475
E888395269	11/16/2009	7:20:00	PET-13	EAC	EF	OFC	2	690
E887619776	11/16/2009	5:21:00	PET-12	EAC	то	OFU	33	11,682
E698655350	11/16/2009	8:20:00	LAU-12	EAA	ТО	OFU	27	9,720
E161007995	11/16/2009	23:40:00	BAK-25	EAA	TF	OSV	2	760
E483864689	11/16/2009	1:03:00	KEN-12	EAA	ТО	OTF	4	1,548
E477530034	11/16/2009	12:54:00	HAN-13	EAA	TF	OFU	7	2,814
E219013029	11/16/2009	22:59:00	LGY-15	EAD	ТО	000	383	155,139
E765617383	11/16/2009	4:20:00	SCH-15	EAA	TF	OFU	30	13,440
E096765748	11/16/2009	22:49:00	SUM-21	EAC	TF	OTF	4	2,024
E734385594	11/16/2009	4:18:00	VWY-15	EAA	TF	OFU	8	4,336
E319021507	11/16/2009	6:25:00	WOB-27	EAA	то	OFU	7	4,375
E524163120	11/16/2009	23:26:00	BCH-13	EAA	TF	OSV	6	4,584
E628900084	11/16/2009	22:35:00	CAR-16	EAA	ТО	OFU	6	5,400
E139616509	11/16/2009	10:04:00	PEA-15	EBJ	UN	OTF	2	64
E566638598	11/16/2009	3:49:00	MVW-13	EBJ	TO	OTF	3	197
E423244392	11/16/2009	21:30:00	PEA-15	EBJ	TO	OTF	2	149
E886155866	11/16/2009	17:08:00	HOB-16	EBI	TO	UOT	2	151
E638075577	11/16/2009	10:15:00	WAB-13	EBI	TF	OFU	55	4,620
E972711205	11/16/2009	21:48:00	ENU-17	EBI	то	OSV	3	280
E452195114	11/16/2009	3:31:00	OSC-23	EBI	TF	OFU	12	1,308
E600181147	11/16/2009	21:59:00	HEM-17	ECA	EF	OFU	90	12,257
E879738628 E006038916 E134395218 E335578686 E267129613 10911631 E887351782 E764847322 E029368206 E869499009 E684605888 10911393 10911632 E923602704 E988916897 E434967074 E066741617 E877629276 E388450246 E035904954 E429361910 E385304430 E665774322 E522696554 E218061362 E747239141	11/16/2009 11/16/2009 11/16/2009 11/16/2009 11/16/2009 11/16/2009 11/16/2009 11/16/2009 11/16/2009 11/16/2009 11/16/2009 11/16/2009 11/16/2009 11/16/2009 11/16/2009 11/16/2009 11/16/2009 11/16/2009 11/16/2009 11/16/2009 11/16/2009	22:24:00 3:56:00 8:00:00 3:19:00 12:27:00 19:45:00 10:38:00 11:38:00 7:53:00 8:53:00 17:06:00 3:37:00 18:17:00 21:09:00 11:56:00 20:59:00 13:57:00 21:42:00 3:19:00 19:34:00 4:29:00 3:34:00 20:58:00 2:45:00 20:56:00 4:31:00	MVW-13 SWE-23 ENU-17 FWD-17 HOB-16 RAI-13 EDG-15 FRG-24 BON-16 HAW-11 BLU-16 FRG-24 YEL-25 YEL-23 AIR-23 BUC-16 SMR-23 LTA-18 EDG-12 MCA-15 BON-13 WLK-13 FRG-25 RAI-14 TLN-0035 CHA-13	EBJ EBJ EBI ECC ECC ECC ECC ECC ECC ECC ECC ECC EC	TF SO TF TO EF TF EF TF EF TO TF TO TO TO TO TO TF TO TF TO TF TF	OFU OSV UPC OSV OTR OFC OFU OTF OCO OTF OCO OTF OCO OFU OCO OFU OCO OFU OCO OFU OCO OFU OCO OFU OCO OFU OCO OFU	50 1 1 2 3 3 1 2 543 2 200 1 1,176 9 139 1 1,070 10 331 1,217 1 1,351 1 1,351 1 1,522 12	6,838 143 197 226 562 108 114 40 114 32,580 122 13,200 67 86,828 711 11,398 86 99,671 1,025 36,322 133,769 115 165,790 124 190,250 1,524

Notification	Date	Time	Circuit	Area	Cause	Equipment	Cust Outs	Cust Mins
E535990865	11/16/2009	20:46:00	TLN-0040	ECA	TF	000	8,892	1,239,869
E569052535	11/16/2009	21:45:00	LON-26	ECC	EF	OFU	15	2,268
E948418552	11/16/2009	2:49:00	ORT-22	ECA	TF	000	1	158
E773448504	11/16/2009	20:09:00	POU-16	ECE	EF	OTF	1	76
10911601	11/16/2009	0:46:00	QUI-25	ECF	ТО	OFU	3	237
E471322938	11/16/2009	7:22:00	RPT-17	ECD	EF	OTF	2	174
E302497345	11/16/2009	11:21:00	VAS-23	EBL	EF	OFU	2	190
E078092622	11/16/2009	10:13:00	CEK-16	ECE	PO	OSV	1	109
E095448525	11/16/2009	12:54:00	SIL-15	ECE	UN	OFU	2	222
E540540904	11/16/2009	19:04:00	SHE-25	ECE	TF	OSV	1	117
E912345132	11/16/2009	9:18:00	CHM-11	ECF	UN	OFU	5	595
E087641172	11/16/2009	22:46:00	WIN-13	ECE	TF	OTF	1	122
E604921520	11/16/2009	12:26:00	CHI-12	ECD	ТО	OFU	26	3,224
E896282792	11/16/2009	1:48:00	SHE-25	ECE	UN	OFU	5	633
E735637387	11/16/2009	13:00:00	HAS-15	ECF	ТО	OSV	4	516
10911550	11/16/2009	0:23:00	CHI-12	ECD	ТО	000	1	142
E097943350	11/16/2009	22:35:00	SIL-16	ECD	ТО	OFU	39	5,706
E990523314	11/16/2009	22:24:00	CHM-11	ECF	TF	000	37	5,792
E697665996	11/16/2009	22:53:00	KIN-23	ECE	ТО	000	159	27,189
E073388814	11/16/2009	23:40:00	TRA-26	ECE	ТО	000	52	8,892
E714832742	11/16/2009	1:24:00	PTL-13	ECF	ТО	000	5	899
E217280114	11/16/2009	17:05:00	FRA-12	ECD	ТО	000	7	1,547
E544008544	11/16/2009	20:33:00	SIL-13	ECF	ТО	000	345	82,852
E968556168	11/16/2009	7:29:00	HAS-15	ECF	ТО	000	7	2,107
E364928123	11/16/2009	22:35:00	SIL-16	ECE	ТО	000	1,763	540,096
E552631824	11/16/2009	22:12:00	SIL-15	ECD	ТО	000	34	21,352
E631058823	11/16/2009	23:12:00	SHE-26	ECE	TF	OTF	1	629

Notification	[Notification Number] A number	[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 ide	entifier for the affected circuit					
F/LOC		umber where the outage occurred. If the grid nee Circuit identifier occupies this field					
EQT NBR		[Equipment Number] A number used to 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 service center	code representing the energy, region and					
	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 outag	ge					
• •	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						

Terms, Codes and Definitions Used on Detail Reports

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

Codes, Definitions – Continued

Media Coverage

Lynden Tribune

Wednesday, November 18, 2009

Storm blows in, twice

WHATCOM — In repeat performances Sunday and Monday nights, stormy weather pounded the Pacific Northwest, although north Whatcom experienced lesser effects than other areas.

Winds rose to between 50 and 60 miles per hour each night, with a lull of quiet during the day Monday.

The second version was worse than the first, said Sgt. Larry Flynn of the Whatcom County Sheriff's Office. He lost count between 20 and 30 of reports of trees or power lines down during the night Monday to Tuesday, he said.

At first, no major power or phone outages were reported in the north county, although there was about a 10-second loss of power in Lynden at about 10:30 p.m. Monday. Then, for nearly an hour Tuesday morning, downtown and western Lynden were out of power.

A Puget Sound Energy spokesperson said the cause was tree limbs in a power line that needed to be repaired.

Problems were worst overnight Sunday especially along Lake Whatcom Boulevard, Flynn said.

The National Weather Service at first called for a flood watch on the Nooksack River, but that was later cancelled and the river was cresting below flood stage Tuesday.

A warm front brought light to moderate rainfall to western Washington Sunday. A new frontal system then developed first over the Olympics and reached the north Cascades with heavier rain Monday afternoon.

The double whammy storm event could be considered the beginning of the fall/winter storm season, said Bellingham Fire Department chief Bill Boyd, and he offered these safety tips for winter storm readiness:

• Prepare now to be without power. Make sure you have food and a battery-operated radio.

• Call 9-1-1 only for life- or property-threatening emergencies. Non-emergency calls clog emergency lines.

• Call Puget Sound Energy directly at 1-888-225-5773 to report power related problems, including downed power lines that are not threatening life or property. Be patient; during a significant storm, power and tree crews will likely be delayed.

• Stay away from any downed utility lines. Consider all downed lines to be live power lines. Do not touch any object that may be in contact with downed lines.

• Use open flame candles only with extreme caution if being used to provide light during a power outage. Each year, the Bellingham Fire Department responds to devastating house fires started by unattended candles and/or candles burning next to combustible materials.

• Use extreme caution in trying to perform repair work outdoors during a storm. You run the risk of being struck by flying materials, including branches, trees, fencing and other loose objects.

• Understand that your home cordless phone may not work if the power is off. In case of emergency in this situation, you will need to use a regular "old-fashioned" phone, or cell phone to call 911.

The Seattle Times

Winds cause power outages in the Puget Sound area

By Seattle Times staff Tuesday, November 17, 2009 - Page updated at 09:04 AM

High winds and downed tree limbs caused a number of scattered power outages overnight in the Puget Sound area and elsewhere in Western Washington.

Puget Sound Energy spokesman Andy Wappler said about 10,000 PSE customers in the Sumner, Puyallup and Wilkeson areas in Pierce County lost power for just over two hours Monday night when a transmission line was hit by a tree, affecting three substations. Power was restored to most customers just after 11 p.m., he said.

About 1,100 PSE customers in the Yelm area in Thurston County also were without power for about three hours when tree limbs fell into power lines.

Earlier Monday, about 9,000 PSE customers were without power in the Bellingham area and elsewhere in Whatcom, Skagit and Island counties because of wind-related problems. Power was restored to most by midafternoon.

By late Monday, as winds picked up again, PSE reported scattered outages to about 1,500 customers in the Bellingham area and elsewhere in Whatcom County, where winds gusted at more than 50 mph.

Snohomish County PUD spokesman Neil Neroutsos said scattered outages knocked out power to customers in the Edmonds area and elsewhere in the county, but most were expected to be restored by this morning.

One home was damaged by a mud slide in Gig Harbor.

An overnight flood warning for the South Fork of the Stillaguamish River near Granite Falls and at Arlington in Snohomish County was issued Monday evening by the National Weather Service.

No King County rivers were listed among the flood warnings.

The weather service said heavy mountain rain, largely concentrated in the South Fork of the Stillaguamish drainage, was forecast to bring the South Fork to flood stage overnight, along with the main stem of the Stillaguamish River near Arlington.

Minor flooding was reported.

The flood warning was expected to be in effect through this morning.

A flood warning also was issued for the Chehalis River near Doty in Lewis County through this afternoon. Warnings also were issued for the Skokomish River near Potlatch in Mason County; the Bogachiel River near La Push, the Dungeness River near Sequim and the Elwha River in Clallam County; and the Satsop River near Satsop in Grays Harbor County.

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The Seattle Times

Monday, November 16, 2009 - Page updated at 09:52 AM



GREG GILBERT / THE SEATTLE TIMES

A large cedar tree split and fell on the roof of this home at 132 North 78th Street.

High winds and rain expected again tonight

By Susan Gilmore, Seattle Times staff reporter

High winds and rain will hammer Western Washington again tonight and Tuesday after a brief lull as today's storm taper off this afternoon.

Jeff Michalski, meteorologist with the National Weather Service, said the storm passing through the area this morning brought wind gusts as high as 50 mph in Bellingham. He said gusts in the Seattle area were 20 to 30 mph.

"We'll have a lull this afternoon and it picks up again overnight when storm No. 2 comes in," said Michalski. He said that storm has the potential of high winds, particularly on the coast and the north part of the state.

He said most of the rain will be in the Olympics and the North Cascades. One river, the Skokomish in Mason County, is at flood stage and is flooding pasture land.

He said Wednesday looks breezy, and another system will come in Wednesday night.

High winds toppled a part of a tree onto two houses in the 100 block of North 78th Street in Greenwood about 3 a.m. today, according to our news partners at <u>PhinneyWood.com</u>. Two people who live in one of the homes told PhinneyWood they heard "a crack and a crash."

Susan Gilmore: 206-464-2054 or <u>sgilmore@seattletimes.com</u>

Wind storm coming to parts of Western WA

Monday, November 16, 2009

The National Weather Service has issued a high wind warning for half a dozen areas of the state:

- San Juan County
- Western Whatcom County
- Western Skagit County
- Admiralty Inlet Area
- North Coast
- Central Coast

The agency says that "a strong Pacific frontal system just offshore will produce damaging winds along the coast and in the north interior this morning...More widespread high winds are possible Monday night and Tuesday...Local damaging wind gusts to around 60 mph can be expected as a strong weather system moves through the region."

The Seattle Times

Monday, November 16, 2009 - Page updated at 12:31 AM

High winds, rain expected today

The first major windstorm of the fall is expected to hit the Seattle area this morning, as a low-pressure system brings 25- to 35-mph winds to the area, along with heavy morning rain and stronger winds tonight.

The National Weather Service is predicting sustained wind speeds of about 45 mph with gusts as high as 60 mph — enough to knock out power and bring down tree limbs, said weather-service meteorologist Dennis D'Amico.

The weather service has issued both a high-wind watch and a wind advisory for tonight. Low-pressure systems off the coast also could mean flooding in the North Cascades and Olympics, and in Snohomish, Whatcom and Skagit counties, he said. No flooding is expected along the Green River, D'Amico said.

— Katherine Long, Seattle Times staff



Windy, rainy start to week in Puget Sound area **KIRO Radio staff**

The National Weather Service says the high winds that hit Western Washington early Monday will be followed by a stronger system Monday night and Tuesday with possible damaging winds.

Puget Sound Energy and Seattle City Light reported scattered outages.

In Seattle's Greenwood neighborhood a large cedar tree hit the roof of one home and sent a branch through a neighbor's living room. No one injured.

A power outage at Western Washington University in Bellingham forced the university to suspend classes until noon Monday.

At Gig Harbor a mudslide knocked down a garage and buried two cars. Two residents of the house escaped unharmed.

Waves kicked up by the winds crashed against the 520 Bridge spilling water over the roadway for the Monday morning commute.

Because of the chance of stronger winds, a high wind watch is in effect Monday and Tuesday for all of Western Washington.

Heavy rain is filling rivers that flow off the Olympics and North Cascades. A flood warning is in effect for the Skokomish River. Flooding is a possibility on the Nooksack. Forecasters do not expect any significant flooding for the Green River valley.

Eastern Washington is relatively calm by comparison with a chance of valley rain and mountain snow through Tuesday.

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Fallen Trees, Power Outages, Slide Results Of Powerful Storm

Posted: 6:41 am PST November 16, 2009; Updated: 9:40 am PST November 16, 2009

SEATTLE -- High winds and soaking rain caused a huge tree to fall onto two homes, triggered a landslide and caused power outages in an ongoing storm Monday.

KIRO 7 meteorologists said the strongest winds will be along the coast and north of Everett with gusts up to 50 mph. Seattle will see gusts of 31 mph.

Those winds caused a tree to topple onto two homes in Seattle's Greenwood neighborhood. A 50-foot cedar tree crashed through the roof of one home at about 3:30 a.m. and sent a branch through another home's living room as the tree split into three pieces. The falling tree also ripped down a power line.

In Bellingham, where there's gusts of 50 mph, winds caused an outage near the courthouse, sent debris flying down the street and twisted street signs.

Winds are also gusting to about 50 mph on Whidbey Island and power outages caused by high winds closed Bellingham's Western Washington University until noon.

There have been reports of more trees down across Western Washington and a high wind watch is in effect Monday and Tuesday for the entire region.

Heavy rain is filling rivers that flow off the Olympics and North Cascades. A flood warning is in effect for the Skokomish River and flooding is a possibility for the Nooksack as well.

The rain triggered a mudslide overnight in Gig Harbor. The slide occurred near the Fox Island Bridge, sending mud into a driveway and up against the home and garage. The force of the slide ripped off the garage door.

Argier said the wind will break around 1 p.m. but will again pick up Monday night and into Tuesday morning as a second storm that could bring even stronger widespread winds develops.

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Thousands without power in Western Wash.

SEATTLE - A number of power outages in Western Washington have thousands of residents in the dark Tuesday morning.

The biggest power outage is in Grays Harbor County, which has about 13,000 customers without electricity. High winds Monday night knocked down trees in the area and toppled power lines. Gray Harbor PUD wants to hear from anyone who has no power or trees down. Customers are urged to call them at 360-537-3721.

Mason County PUD reports about 1,000 customers are without power, most of those in the Hood Canal and Hoodsport area. Snohomish County PUD crews are trying to restore power to about 800 customers.

Puget Sound Energy crews have also been busy overnight working to restore power in number of cities. About 6,000 customers in Whatcom County are without power, 1,200 customers on Mercer Island, 1,200 in Kitsap County and a couple of scattered power outages throughout the area. Crews do not know when power will be restored.

About 2,600 people in Kirkland were without power; power has since been restored. At the height of the power outages, about 20,000 customers total were without electricity.



2009 Qualifying Storm Events

November 18, 2009

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Event Description

Date of event

November 18, 2009

Event Type

Wind storm.

Service Areas Affected

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

Number of Customers Affected

Approximately 47,600 customers were without power over the course of this outage event.

Summary of System Impacts

Total Number of Outages	289
Distribution Circuits Totally Out	11
Distribution Circuits Partially Out	278

Transmission Circuits Affected	11
Substations Totally Off-line	0

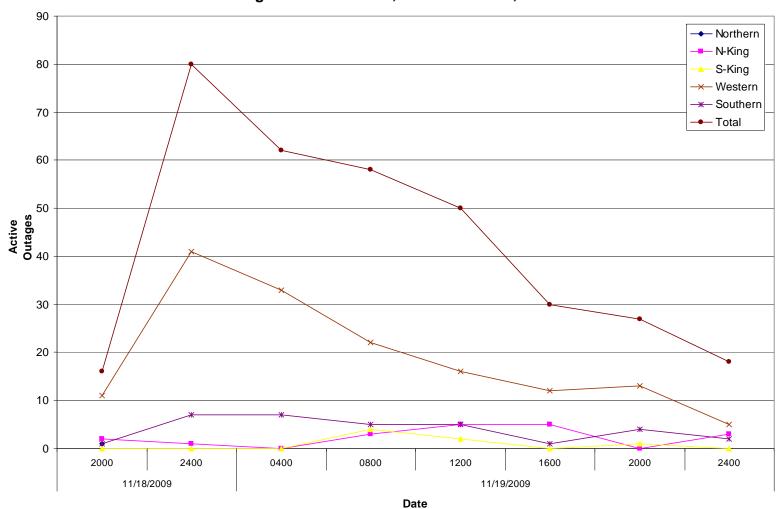
Mobilization Summary

Operating Bases

Base	Date Opened	Time Opened	Date Closed	Time Closed
Jefferson	11/18/2009	18:00	11/19/2009	06:00
Kitsap	11/18/2009	18:00	11/19/2009	06:00
Whatcom	11/18/2009	18:30	11/19/2009	10:00
Skagit	11/18/2009	18:30	11/19/2009	10:00
Island	11/18/2009	18:30	11/19/2009	10:00
Thurston	11/18/2009	21:30	11/19/2009	19:00

Emergency Operations Center

EOC	Date Opened	Time Opened	Date Closed	Time Closed



Outage Events - Nov 18, 2009 to Nov. 19, 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 (Alpha + 2.5 * 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
11/16/2009	13,172,993	1,078,555	12.21
11/18/2009	10,873,993	1,078,555	10.08

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	\$499,136
11/16/2009	12.21	\$1,155,567
11/18/2009	10.08	\$937,313

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	\$0	\$27,264	\$0	\$36,325	\$588,391	\$624,716	\$651,981
11/05/2009	\$0	\$27,890	\$0	\$30,717	\$499,136	\$532,763	\$560,654
11/16/2009	\$0	\$356,707	\$0	\$56,177	\$1,155,567	\$1,211,744	\$1,568,451
11/18/2009	\$0	\$154,684	\$0	\$60,594	\$937,313	\$997,907	\$1,152,591

YTD Storm Restoration Cost Detail – Through November 18, 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	\$566,546	\$0	\$186,723	\$3,180,407	\$3,367,130	\$3,933,676

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

		Nov	Puget Sound ember 18, 2009 Storm			Costs			
	Qualifying Events Deferred Account	Capital	C&D Recoverable from Direct Billings (Costs Not Yet Billed)	-	D&M - Not Deferrable		Deferrable umulation	Total O&M	Total
Labor									
ST		\$ 330				\$	8,969	\$8,969	\$9,29
OT						\$	86,273	\$86,273	\$86,273
Total Labor	\$0	\$ 330	\$0		\$0	\$	95,243	\$95,243	\$95,572
Labor OH		\$ 212				\$	39,426	\$39,426	\$39,63
Materials		\$ 24,019				\$	47,789	\$47,789	\$71,80
Contractors		\$ 113,365				\$	728,959	\$728,959	\$842,32
Other Direct Charges						\$	9,719	\$9,719	\$9,71
Fleet		\$ 40				\$ \$	23,816.08	\$23,816	\$23,85
Other Assessments		\$ 16,719		\$	60,594	(7,639)		\$ 52,954	\$ 69,672.96
Deferred Expenses							\$0	\$0	\$-
	\$0	\$154,684	\$0		\$60,594	\$	937,313	\$997,907	\$1,152,59

IEEE-1366 - Detailed List of Distribution Circuits with O	utages
-----------------------------------------------------------	--------

							Cust	Cust
Notification	Date	Time	Circuit	Area	Cause	Equipment	Outs	Mins
E365769697	11/18/2009	21:22:00	SIL-15	ECD	TO	000	105	24,771
E130531091	11/18/2009	16:13:00	KIN-21	ECE	TO	OUP	2	892
E784509483	11/18/2009	16:06:00	MIL-22	ECE	TF	000	11	4,719
E302327652	11/18/2009	17:18:00	DIS-12	ECF	TO	000	70	41,580
10914745	11/18/2009	17:18:00	DIS-12	ECF	TO	000	53	34,556
E734012721	11/18/2009	15:25:00	QUI-25	ECF	TO	CDH	26	8,412
E098758084	11/18/2009	17:50:00	PTR-14	EAA	TO	OFC	316	515,396
E218287193	11/18/2009	22:21:00	KEA-15	ECF	ТО	000	28	8,148
E202550305	11/18/2009	17:59:00	WLS-16	EAC	SO	OJU	17	15,317
E395760881	11/18/2009	20:07:00	HAP-16	EAA	TO	000	1,681	261,685
E045652390	11/18/2009	20:53:00	QUI-25	ECF	TO	OFC	18	5,094
E445574205	11/18/2009	16:41:00	PTR-16	EAA	TO	OFC	350	628,338
E664284836	11/18/2009	21:24:00	BLA-13	EAA	то	OFC	1	843
E340273089	11/18/2009	21:19:00	FAL-13	EBF	EF	UPC	21	8,247
E370721830	11/18/2009	21:32:00	PLG-13	ECC	то	000	4	2,080
E906674040	11/18/2009	23:23:00	ROE-13	EAA	TF	OFC	1	787
E454881183	11/18/2009	21:34:00	GRI-15	ECC	ТО	000	178	100,570
E509342183	11/18/2009	21:02:00	PTL-13	ECF	ТО	OFC	2	657
E383182675	11/18/2009	20:59:00	LUH-14	ECC	ТО	OPO	213	81,490
E931534598	11/18/2009	21:27:00	FRG-24	ECC	ТО	000	23	13,501
E278702671	11/18/2009	18:20:00	AIR-23	ECC	ТО	000	14	4,788
E966549588	11/18/2009	15:52:00	ROS-22	EBD	TF	000	1,052	305,106
E893815222	11/18/2009	16:00:00	IRO-17	ECF	то	000	11	12,023
E515334564	11/18/2009	18:24:00	PTR-16	EAA	то	OFC	16	27,104
E828575803	11/18/2009	15:48:00	IRO-17	ECF	TF	OFC	1,326	401,357
10915157	11/18/2009	16:49:00	MIL-23	ECE	то	000	155	37,347
E703766661	11/18/2009	15:50:00	MIL-23	ECE	то	000	72	21,596
E410244602	11/18/2009	22:26:00	HAS-13	ECF	то	OFC	9	2,574
E549240193	11/18/2009	20:50:00	SWI-16	ECC	TF	000	200	162,200
E578186174	11/18/2009	22:08:00	WOB-25	EAA	ТО	OFC	6	2,592
E118294799	11/18/2009	19:44:00	LAB-25	EAA	ТО	OFC	5	1,680
E323998729	11/18/2009	23:24:00	WOB-26	EAA	то	OFC	1	516
E151845467	11/18/2009	22:47:00	CAR-16	EAA	то	OFC	1	473
E951165470	11/18/2009	23:29:00	VWY-15	EAA	то	OFC	2	422
E501910687	11/18/2009	19:02:00	SLA-16	EAA	то	OFC	550	210,650
E886406682	11/18/2009	23:37:00	MCK-15	EAA	то	OFC	72	5,976
E393362745	11/18/2009	16:00:00	BCH-15	EAA	то	OFC	25	7,225
E907435926	11/18/2009	21:22:00	SCH-16	EAA	ТО	OFC	12	7,596
E790668979	11/18/2009	19:43:00	BCH-13	EAA	ТО	OFC	29	9,628
E374637656	11/18/2009	21:39:00	BCH-15	EAA	то	OFC	5	1,580
E401715271	11/18/2009	17:58:00	NUG-26	EAA	то	OFC	180	88,560
E400017587	11/18/2009	21:38:00	BCH-16	EAA	то	OFC	12	7,464
E354966974	11/18/2009	20:47:00	CUS-15	EAA	то	OTR	5	2,615
E076900753	11/18/2009	20:56:00	KEN-12	EAA	то	OFC	4	1,996

Notification	Date	Time	Circuit	Area	Cause	Equipment	Cust Outs	Cust Mins
E905745702	11/18/2009	21:51:00	VIK-25	EAA	SO	OFC	22	5,698
E346093152	11/18/2009	21:07:00	LAU-11	EAA	TF	OTF	3	2,154
E892671639	11/18/2009	20:10:00	HAP-16	EAA	ТО	OFC	126	57,330
E536663508	11/18/2009	15:16:00	KIN-24	ECE	то	000	115	44,879
10912075	11/18/2009	15:05:00	SBE-26	EBE	DU	USV	1	1,880
E597646932	11/18/2009	9:29:00	BTN-38	EAC	EF	000	1,384	167,464
E794375357	11/18/2009	18:52:00	LGY-16	EAD	TO	OFC	350	126,000
E909102615	11/18/2009	21:35:00	CLV-16	EAD	то	OFC	50	120,000
E968859507	11/18/2009	21:33:00	CLV-16	EAD	то	OFC	23	8,786
E908839307	11/18/2009	14:54:00	FLD-12	EAD	TF	OFC	23 50	19,300
E091850681	11/18/2009	17:24:00	FLD-12 FLD-13	EAD	ТО	000	40	16,240
E895563498	11/18/2009	17:24:00	FLD-13 FLD-15	EAD	TF	000	40	182,684
E095505498 E192148847	11/18/2009	14.34.00 19:33:00	ALG-15	EAD	TO	OFC	68	
E192140047 E115761949	11/18/2009	19:33:00	ALG-15 ANA-15	EAC	то	OPC	12	30,056 6,996
			PEA-15				12	
E220484201	11/18/2009	17:32:00		EBJ	EF	000		6,339
E857571103	11/18/2009	20:50:00	WLK-13	ECA	TO TO	000	618	94,808
E326419098	11/18/2009	22:12:00	KAP-13	ECA	TO TO	000	200	34,332
E836235956	11/18/2009	21:08:00	ORT-22	ECA	TO TO	000	22	6,367
E244277386	11/18/2009	18:57:00	SPA-16	ECA	TO	000	8	2,664
E231041115	11/18/2009	20:55:00	KAP-16	ECA	TO	000	10	3,950
E395192588	11/18/2009	22:35:00	WOO-23	ECA	TO	000	24	11,400
E937466488	11/18/2009	13:21:00	CEK-14	ECE	TO	000	37	6,466
E977685081	11/18/2009	4:10:00	PMA-12	ECE	TO	000	2	922
E478883872	11/18/2009	10:36:00	CHR-23	ECE	EF	UPC	2	1,245
E689473597	11/18/2009	1:34:00	BLU-13	ECC	DU	USV	1	306
E842189569	11/18/2009	7:20:00	CAS-16	EBH	EF	OFU	25	1,800
E973757006	11/18/2009	14:00:00	WOD-15	EBH	EF	OTR	1	120
10915023	11/18/2009	19:47:00	ING-15	EBD	EF	OTO	2,072	12,432
E466332126	11/18/2009	21:31:00	WAY-13	EBD	TO	OTF	6	603
E413455101	11/18/2009	20:59:00	EGT-27	EBE	EF	OFU	22	3,014
E264100062	11/18/2009	20:52:00	OVE-15	EBE	TF	OFU	25	3,500
E053968521	11/18/2009	15:09:00	JUA-13	EBD	EF	000	5	813
E130215117	11/18/2009	16:53:00	ING-15	EBD	EF	ULO	690	128,340
E284559470	11/18/2009	18:09:00	PIN-27	EBF	TO	000	15	2,892
E021152099	11/18/2009	16:29:00	RED-14	EBD	EF	PMF	8	1,829
E484644098	11/18/2009	7:09:00	INT-17	EBE	EF	UPC	60	16,560
E583691535	11/18/2009	9:00:00	BTR-25	EBE	SO	UPT	138	42,918
E556402217	11/18/2009	16:05:00	HWD-25	EBD	TF	OSV	1	398
E233835859	11/18/2009	8:00:00	BTR-25	EBD	SO	UPT	21	9,135
E082263787	11/18/2009	8:00:00	MED-33	EBE	SO	UHH	12	5,820
E225542035	11/18/2009	19:30:00	FAB-15	EAD	то	OFU	10	290
E007760915	11/18/2009	14:34:00	BTN-36	EAC	EF	OTF	2	62
E048451024	11/18/2009	17:45:00	BTN-35	EAC	TF	OFU	18	678
E096874502	11/18/2009	6:51:00	ALG-15	EAC	EF	OTF	5	345
E563505142	11/18/2009	16:54:00	LAB-25	EAA	EF	OTH	1	76
E614401396	11/18/2009	15:48:00	HKX-16	EAC	EF	OTF	3	240
E247132189	11/18/2009	8:20:00	NUG-25	EAA	EF	000	1	100
E927805306	11/18/2009	22:28:00	SST-17	EAA	ТО	OFU	37	3,774
E359920825	11/18/2009	11:36:00	BRI-14	EAA	EF	OCN	9	1,026

Notification	Date	Time	Circuit	Area	Cause	Equipment	Cust Outs	Cust Mins
E031853387	11/18/2009	20:09:00	OLD-25	EAA	ТО	000	200	31,200
E046317566	11/18/2009	19:40:00	SUM-21	EAC	TF	OSV	1	160
E678985985	11/18/2009	7:57:00	VWY-15	EAA	TF	OFC	2	326
E636956612	11/18/2009	14:29:00	LGY-15	EAD	TF	OFU	1	171
E547177251	11/18/2009	11:39:00	SUM-21	EAC	TF	OSV	3	573
E575946419	11/18/2009	18:38:00	NLM-16	EAC	ТО	OFU	50	10,350
E063323496	11/18/2009	7:47:00	BCH-13	EAA	TF	OFC	9	2,016
E059642979	11/18/2009	20:30:00	BIG-15	EAC	ТО	OFU	150	34,050
E721644551	11/18/2009	18:53:00	CAR-15	EAA	ТО	OFU	20	5,720
E555337325	11/18/2009	15:18:00	GBK-13	EAD	TF	OSV	2	604
E144418328	11/18/2009	21:53:00	BRI-17	EAA	TF	OIN	17	5,899
E427488317	11/18/2009	21:07:00	SWA-13	EAD	EF	OSV	37	14,911
E182550457	11/18/2009	18:28:00	BRW-15	EAC	TF	OFU	2	1,584
E117823144	11/18/2009	16:18:00	MST-25	EBI	PO	UTR	1	53
E466141567	11/18/2009	19:59:00	WAB-13	EBI	TF	OSV	1	84
E631520223	11/18/2009	20:38:00	SHD-18	EBI	TF	000	1	102
E821668675	11/18/2009	7:12:00	DES-15	EBJ	EF	OFU	7	2,856
10914959	11/18/2009	22:09:00	TLN-0041	ECA	ТО	000	2,781	25,029
E227516997	11/18/2009	21:14:00	PAT-15	ECC	ТО	000	5	160
E208253369	11/18/2009	11:48:00	AIR-22	ECC	EF	OPI	24	888
E899511438	11/18/2009	8:06:00	BON-16	ECA	EF	OTF	8	408
E338496579	11/18/2009	23:28:00	TLN-0018	ECC	TF	000	4,756	266,336
E248422646	11/18/2009	16:53:00	BLU-13	ECC	TF	OFU	46	3,005
E709377202	11/18/2009	14:21:00	GRV-13	ECA	EF	OFU	13	1,040
E257792660	11/18/2009	17:34:00	CHA-15	ECC	ТО	OFU	112	9,632
E431973946	11/18/2009	19:13:00	SWI-17	ECC	ТО	OFU	68	6,936
E316017246	11/18/2009	18:14:00	PAT-15	ECC	TF	000	1,870	194,480
E637030441	11/18/2009	17:30:00	BAR-17	ECC	EF	OJU	1	122
E641636328	11/18/2009	20:00:00	MKI-17	ECC	TF	000	1,991	272,667
E379830761	11/18/2009	23:29:00	GRV-15	ECA	TF	000	431	63,788
E253823331	11/18/2009	18:24:00	ELD-25	ECC	TO	000	115	17,097
E509842869	11/18/2009	22:39:00	BLU-16	ECC	TO	OFU	76	13,376
E651690694	11/18/2009	22:19:00	SWI-13	ECC	TO	000	893	165,205
E492336292	11/18/2009	19:54:00	FRG-25	ECC	TO	000	1,350	265,950
E869301334	11/18/2009	22:27:00	DEC-13	ECC	TO	000	507	109,005
E550342784	11/18/2009	19:44:00	LAC-13	ECC	TF	000	3,247	717,587
E978288919	11/18/2009	22:38:00	RAI-13	ECC	TF	000	1,739	407,577
E393041370	11/18/2009	18:46:00	BLU-13	ECC	TO	000	313	76,998
E429283639	11/18/2009	23:49:00	TAN-16	ECC	TO	OFU	1	266
E983955648	11/18/2009	23:43:00	PAT-13	ECC	TF	000	1,217	328,590
E813933237	11/18/2009	19:01:00	ROC-25	ECC	TF	OFU	47	13,583
E503985726	11/18/2009	23:20:00	TLN-0018	ECC	TF	000	10,806	3,505,252
E821883553	11/18/2009	23:30:00	BLU-13	ECC	ТО	000	141	47,517
E166062524	11/18/2009	8:00:00	HOL-15	ECA	SO	OTF	31	12,803
E257281004	11/18/2009	20:27:00	LON-23	ECC	EF	OTF	4	2,124
E834696148	11/18/2009	20:24:00	LAC-15	ECC	ТО	OTF	23	13,984
E896234437	11/18/2009	23:10:00	CHA-13	ECC	TO	OFU	12	7,908
E325116845	11/18/2009	21:07:00	HAS-15	ECF	ТО	000	300	7,465
E797652150	11/18/2009	21:49:00	HAS-15	ECF	TF	000	3	108

Notification	Date	Time	Circuit	Area	Cause	Equipment	Cust Outs	Cust Mins
E042077494	11/18/2009	17:52:00	KIN-22	ECE	EF	OTF	2	85
E647655692	11/18/2009	14:49:00	MIL-23	ECE	ТО	000	318	15,142
E538111093	11/18/2009	16:09:00	KIN-22	ECE	TF	OSV	2	134
E595940708	11/18/2009	13:34:00	RPT-22	ECD	ТО	000	79	5,991
E021064501	11/18/2009	17:31:00	DIS-13	ECF	ТО	000	104	10,192
E382000665	11/18/2009	15:52:00	PGA-13	ECE	ТО	000	3	513
10911983	11/18/2009	10:29:00	SIN-22	ECD	EF	OJU	1	209

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 o 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 outag	ge						
• •	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							

Terms, Codes and Definitions Used on Detail Reports

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

Codes, Definitions – Continued

Media Coverage

Lynden Tribune

Wednesday, November 18, 2009

Storm blows in, twice

WHATCOM — In repeat performances Sunday and Monday nights, stormy weather pounded the Pacific Northwest, although north Whatcom experienced lesser effects than other areas.

Winds rose to between 50 and 60 miles per hour each night, with a lull of quiet during the day Monday.

The second version was worse than the first, said Sgt. Larry Flynn of the Whatcom County Sheriff's Office. He lost count between 20 and 30 of reports of trees or power lines down during the night Monday to Tuesday, he said.

At first, no major power or phone outages were reported in the north county, although there was about a 10-second loss of power in Lynden at about 10:30 p.m. Monday. Then, for nearly an hour Tuesday morning, downtown and western Lynden were out of power.

A Puget Sound Energy spokesperson said the cause was tree limbs in a power line that needed to be repaired.

Problems were worst overnight Sunday especially along Lake Whatcom Boulevard, Flynn said.

The National Weather Service at first called for a flood watch on the Nooksack River, but that was later cancelled and the river was cresting below flood stage Tuesday.

A warm front brought light to moderate rainfall to western Washington Sunday. A new frontal system then developed first over the Olympics and reached the north Cascades with heavier rain Monday afternoon.

The double whammy storm event could be considered the beginning of the fall/winter storm season, said Bellingham Fire Department chief Bill Boyd, and he offered these safety tips for winter storm readiness:

• Prepare now to be without power. Make sure you have food and a battery-operated radio.

• Call 9-1-1 only for life- or property-threatening emergencies. Non-emergency calls clog emergency lines.

• Call Puget Sound Energy directly at 1-888-225-5773 to report power related problems, including downed power lines that are not threatening life or property. Be patient; during a significant storm, power and tree crews will likely be delayed.

• Stay away from any downed utility lines. Consider all downed lines to be live power lines. Do not touch any object that may be in contact with downed lines.

• Use open flame candles only with extreme caution if being used to provide light during a power outage. Each year, the Bellingham Fire Department responds to devastating house fires started by unattended candles and/or candles burning next to combustible materials.

• Use extreme caution in trying to perform repair work outdoors during a storm. You run the risk of being struck by flying materials, including branches, trees, fencing and other loose objects.

• Understand that your home cordless phone may not work if the power is off. In case of emergency in this situation, you will need to use a regular "old-fashioned" phone, or cell phone to call 911.



Thursday, November 19, 2009

Winds topple trees, knock out power to thousands

Watch story here.

SEATTLE - Fierce winds and heavy rain pushed through Western Washington overnight Wednesday, leaving thousands without power and a mess for crews to clean-up Thursday morning.

Close to 10,000 Clallum County PUD customers are still without power after a transmission line went down near Port Angeles. Puget Sound Energy is working to restore power to about 2,000 customers in Thurston County.

Seattle City Light reports about 160 customers without power in Shoreline, Queen Anne and South Seattle.

In the Shoreline area, a half a dozen crews were working to clear up mangled power lines after gusty winds toppled a large tree on Meridian Avenue near 203rd Wednesday evening. An 82year-old woman driving a Toyota Camry narrowly escaped with her life.

"The high-tension wires did break the fall of the tree, but it did collide with the passenger side of the vehicle," says Sgt. Chad Devore with Shoreline Police.

Fortunately, the only thing damaged besides the power lines and the woman's car were her nerves. About 200 customers in the Shoreline area lost electricity; power has been restored to about half of those customers.

A tree that fell in the early morning darkness west of Longview not only caused a power outage but also led to a log truck crash that blocked both lanes of an area road for about four hours.

Cowlitz Public Utility District spokesman Dave Andrew said the tree took down power lines at 2:40 a.m. Wednesday, interrupting electric service to nearly 1,500 customers for about three hours.

A log truck crashed into the fallen tree, blocking both lanes of the highway for about four hours before the road was cleared at about 6:30 a.m.

The Washington State Patrol tells The Daily News of Longview that the truck driver was unhurt.

Port Townsend-Keystone ferry route canceled

Commuters who take the Port Townsend-Keystone ferry route may need to make a change of plans. Starting at 3:45 p.m. Thursday, sailings on the Port Townsend-Keystone route are canceled because of high winds and heavy seas.

The Department of Transportation says alternate routes will be through the Edmonds-Kingston and Mukilteo-Clinton runs.



Power companies prepare for stormy weather

Watch story here.

And with all that, you wouldn't be surprised to hear there are power outages. Puget Sound Energy reports they are aware of scattered outages in King, Kitsap, and Island counties. Today people were preparing in anticipation of the expected windstorm. Here's Tricia Manning-Smith. Reporter: "Arborists are bracing for sleep deprivation. Windstorm expectations have them preparing for potentially all-nighters. You never know what's going to come, and when it comes you have eve got to be there right away.

The Olympian

Friday, November 20, 2009

Weather likely to let up a little

Storms: It's expected to be bad, but not as bad By JOHN DODGE

Renewed heavy rains and strong damaging winds were expected to blow through South Sound before relenting this morning, the National Weather Service predicted Thursday night.

It would mark the fourth in a series of powerful storms to sweep into Western Washington this week, with projected winds of 25 to 35 miles per hour and gusts up to 50 mph, according to the weather service.

Another breezy and wet weather system, but generally weaker and with colder air, is expected to hit the region this afternoon.

The likelihood of power outages from falling limbs and trees, landslides and river flooding remains high.

"The soils are saturated from all the rain, and the trees are stressed," said National Weather Service meteorologist Dennis D'Amico. "It doesn't take too much to knock them down."

The gusty windstorm that blew through South Sound on Wednesday night knocked out power to about 2,000 residents in Thurston County, Puget Sound Energy officials said.

driving rain Thursday morning as wet and wild weather continued to pound the South Sound region. More storms were on their way, but this afternoon's should be weaker.

Outages were reported Wednesday night in west Olympia, Lacey and East Olympia, among other areas. Power was restored by Thursday afternoon, and crews were on standby to respond to another round of outages Thursday night, Puget Sound Energy spokeswoman Abigail Elliott said.

Numerous traffic signals were darkened during the Wednesday night outage. But they didn't lead to an increased number of crashes, a police dispatcher said Thursday.

A wind gust of 66 miles per hour was recorded by a weather station in the Lake Lawrence area about 6:30 p.m. Wednesday, D'Amico said. Winds of up to 37 mph were recorded overnight at the Olympia Regional Airport, he said.

It was enough to send limbs flying and trees crashing down around South Sound.

Rainfall for November stood at 6.15 inches Wednesday, nearly 50 percent more than had been recorded at this time last year.

Meanwhile, a flood watch is in effect for the Chehalis River in Thurston County. The river could reach flood stage and experience minor flooding in the south county area by tonight, he said.



Friday, November 20, 2009

Windstorm batters Whatcom County again By HANNAH BOSTWICK

BELLINGHAM - The windstorm that whipped through Whatcom County Wednesday night, Nov. 18, left power outages, road closures and other debris in its wake, but the weekend looks to offer relief.

Wind gusts up to 60 mph were forecast again for Thursday night, but the south winds should ease to about 15 mph Friday and Saturday, with showers likely and daytime temperatures in the high 40s through Monday.

Downed power lines caused about 200 Puget Sound Energy customers to lose electricity for significant periods of time on Wednesday night, said Abigail Elliott, PSE spokeswoman. The



biggest outage occurred near Marshall Hill Road, where about 130 customers lost power from 6 p.m. Wednesday to 3 a.m. Thursday, she said.

The two smaller outages occurred near Point Whitehorn west of Ferndale. At Koehn Road and Whitehorn Way, roughly 40 customers lost power from 6 p.m. Wednesday to just after 1 a.m. Thursday. At Gulf Road and Henry Road, about 30 customers lost power from 4 to 9 p.m. Wednesday.

Customers' power was fully restored by noon Thursday, Elliott said.

Bellingham Public Works crews worked Wednesday night into Thursday morning removing fallen branches and debris from roads, said Chad Bedlington, maintenance superintendent.

Some larger trees came down near Western Washington University Wednesday night. Campus officials were most concerned about trees behind College Hall and ones blocking the Fairhaven College access road and the service road for Wade King Student Recreation Center.

Temporary access through debris in those areas was cleared late Wednesday, with more cleanup scheduled for Thursday, said Tim Wynn, campus director of facilities management.

On Lummi Island, Beach Elementary School was closed Thursday because of a power outage, said Tammy Bengen, spokeswoman for Ferndale School District. Power has been restored to the school and it should be open Friday, provided the power doesn't go out again, she said.

High winds also damaged the Lummi Island ferry dock, resulting in limited hours of operation and weight restrictions.

As of Thursday morning, some parts of Bellingham still had fallen trees or other debris partially blocking parts of a roadway, but no roads were closed, Bedlington said.

Elsewhere in the county, more than 20 roads were reported closed or blocked as of 1:30 p.m. Thursday, according to Whatcom County Public Works. Roads not blocked had shoulder or lane erosion, or water or debris on the roadway, county officials reported.

Closed roads included Bylsma Road, Marine Drive at Ferndale Road, and Hemmi Road east of Hannegan Road. Blocked roads included McLeod Road, Emerald Lake Way and Flynn Road.

In downtown Bellingham, the strong winds broke an inner metal arm of the rotating sculpture next to the Whatcom Transportation Authority terminal. The artist, Tony Howe, plans to remove the large globe

from the sculpture's outer ring and store it at the agency's shop while he repairs the broken piece at his studio on Orcas Island.

The sculpture might be repaired and re-installed in perhaps a week or two, said WTA spokeswoman Maureen McCarthy. The warranty on the sculpture is still in force, so the artist will cover the cost of repairs, she said.



Thursday, November 19, 2009

Still more wind, rain, snow to come

Watch story here.

SEATTLE -- Power crews are standing at the ready for the possibility of more trees toppling over in the wind, knocking down power lines Thursday night and into Friday.

KING 5 Chief Meteorologist Jeff Renner says winds will increase again Thursday, but shouldn't be as bad as Wednesday night. He expects 15-25 mph sustained winds over Puget Sound, and possibly 20-35 mph from Everett north. Higher gusts are possible.

He says, winds should begin easing before midnight, but rain is expected to pick up overnight, but changing to showers by the morning hours.

More snow in the mountains above 4,000 feet. On Friday afternoon, 5 to 12 more inches of snow could fall in the mountains.

As of Thursday night, Seattle was the only area reporting outages, with some 200 customers in the dark. Meanwhile, Puget Sound Energy crews are resting up for weather predicted Thursday evening and Friday. Additional crews are being brought in anticipation of outages.

Almost 9,000 Grays Harbor PUD customers were without power Thursday evening, including Ocean Shores, Oyhut, Ocean City, Copalis Beach, Pacific Beach, Copalis Crossing, Moclips, Taholah, and Bernard Creek.

As of Thursday afternoon, flood warnings remained in effect for the Bogachiel, Skokomish and Satsop rivers. Flood watches are in effect until Saturday morning for Grays Harbor, Clallam, Jefferson, Lewis and Thurston counties.

A winter storm warning for heavy snow is in effect for the Olympic Mountains and the west slopes of the Cascades. Renner expects snow in the Cascades to rise to 4,000 to 5,000 feet Friday before falling back to 2,000 in the afternoon with heavy snow showers.

Interstate 90 at Snoqualmie Pass was closed Thursday afternoon for avalanche control. Washington State Department of Transportation crews say the early snow meant dealing with at least five spin outs along the highway. Conditions were bad enough that traction tires or chains were required for more than half the day.

"Carrying 50,000 pounds, that's a lot of weight to pull and it's a lot of weight pushing on you when you're going downhill, so the chains really do make a big difference," said truck driver Gary Pierce.

Traction tires are also required Stevens Pass. Traction tires are advised at White and Blewett passes.

For Jason Perkizas and his season ski pass, it's great news that the season's starting in mid-November.

"Got some new skis this year, so wanted to get up as soon as possible," said Perkizas.



Thursday, November 19, 2009

Long stretch of breezy, wet seen for state

SEATTLE — As utilities completed repairs today to the latest wind-caused power outages in Western Washington, forecasters said the breezy wet weather would continue with snow in the mountains and parts of Eastern Washington.

Wednesday's storm left power crews busy in parts of Grays Harbor County, the San Juan Islands, Snohomish and Thurston counties and the city of Seattle.

The National Weather Service said the series of Pacific storms would continue blowing into the state into next week, with a possible lull on Sunday.

After heavy snow in the Cascades, the Transportation Department required traction tires this morning on Snoqualmie, Stevens and White passes.

Forecasters warned of flooding on the Bogachiel and Satsop rivers.

National Weather Service forecaster Jay Albrecht said Washington's north coast has seen the strongest winds Wednesday night, with gusts just off Olympic National Park measured at 66 mph and a peak gust of 81 mph. In the northwest interior, Cherry Point near Ferndale had a 64 mph gust and Friday Harbor in the San Juans got a 58 mph blast.

As of 10 p.m. Wednesday, KING-TV reported some 8,000 Clallam County customers without power while another 4,300 lost power in Grays Harbor County and 3,000 Puget Sound Energy customers lost electricity.

Albrecht said rain was falling at the rate of a half-inch an hour in some areas on the coast and on the Olympic Peninsula.