



2017
Qualifying Events Report

May 4, 2017 Event

Filed on August 1, 2017

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Event Description

Event Date and Time

Start: 5/4/2017, 16:00

End: 5/7/2017, 21:00

Event Type

Lightning, wind, hail

Service Areas Significantly Affected

South King County and Thurston County and

Number of Customers Affected

System wide, approximately 111,906 customers were without power during the course of this event.

Summary of System Impacts

Total Number of Outages for the Event	243
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Transmission Lines Affected	0
Substations Offline	0

Mobilization Summary

Operating Bases Placed In Emergency Status

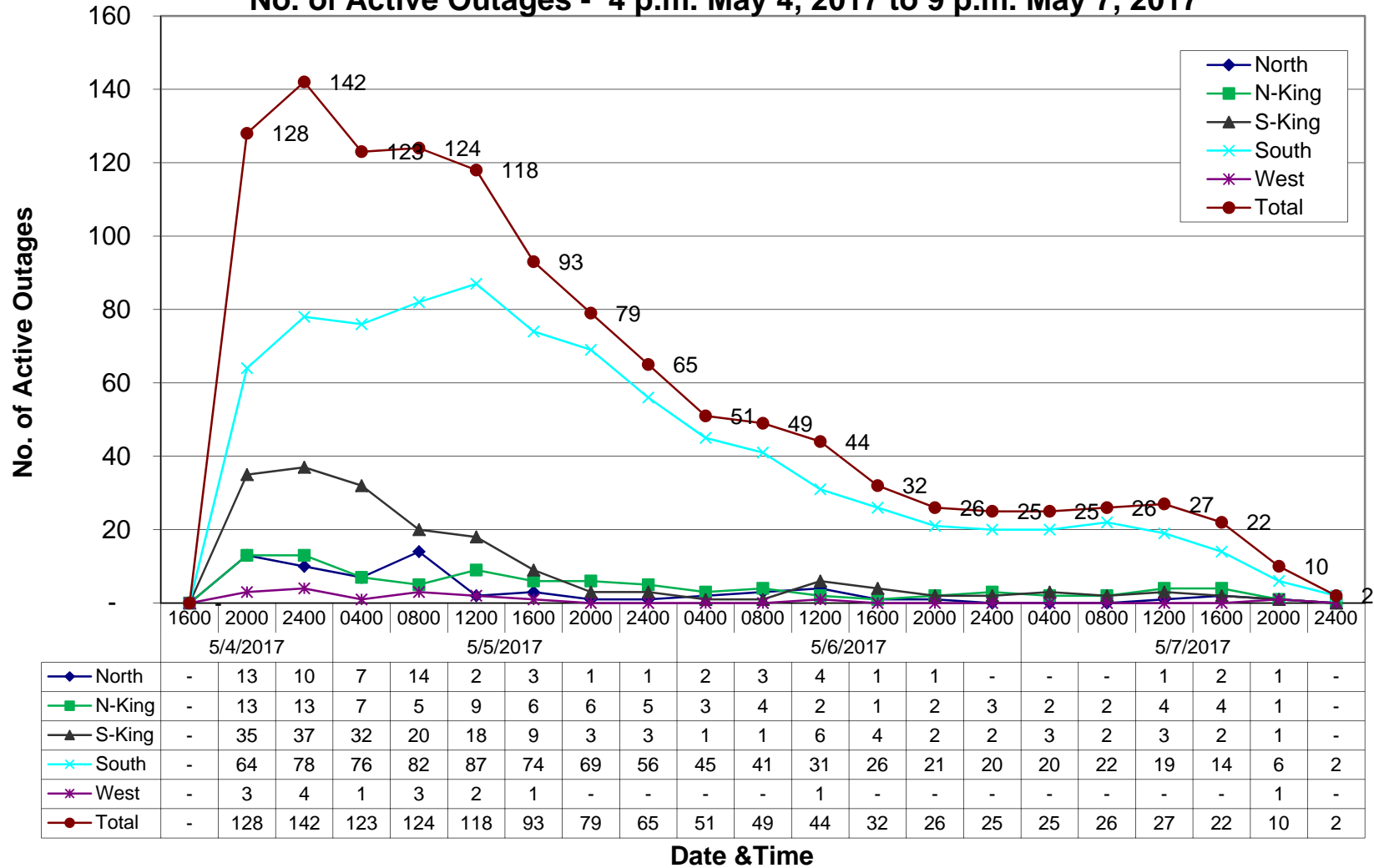
Base	Date Opened	Time Opened	Date Closed	Time Closed
Whatcom/Skagit/Island	N/A			
North King	N/A			
South King	5/4/2017	22:30	5/5/2017	16:00
Pierce	N/A			
Thurston	5/4/2017	17:45	5/7/2017	21:00
Kitsap	N/A			
Vashon	N/A			
Kittitas	N/A			

Emergency Coordination Center (ECC)

	Date Opened	Time Opened	Date Closed	Time Closed
ECC	5/5/2017	04:00	5/5/2017	19:30

Active Outage Event Chart

IEEE Qualifying Storm Event
No. of Active Outages - 4 p.m. May 4, 2017 to 9 p.m. May 7, 2017



Major Event Day – Qualification

IEEE¹ Standard 1366

IEEE Standard 1366 was established to present a set of terms and definitions which can be used to foster uniformity in the development of electric system 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 Standard 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 SAIDI² 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 4
6. Compute the threshold T_{MED} where $T_{MED} = \exp(\text{Alpha} + 2.5 * \text{Beta})$
7. Any day in the next year with SAIDI > T_{MED} is a major event day

Puget Sound Energy's IEEE Major Event Threshold (T_{MED}) for 2017: 6.72 Minutes

Qualified Events - 2017

Current Event – Calculation Detail

Event Date, Time Range	Total Customer Minutes	Average Customer Count	Event SAIDI (Customer Minutes /Customer Count)
5/4/2017, 16:00 – 5/7, 21:00	45,880,105	1,135,742	40.40

Daily SAIDI Detail YTD

Event Days Exceeding PSE's 2017 IEEE Major Event Threshold of 6.72 Minutes

Date	Daily SAIDI (from midnight to midnight)	O&M ³ Costs– Deferrable Accumulation
2/1/2017	20.7	\$8,000,000
4/7/2017	13.1	-
5/4/2017	37.9	-

¹ IEEE: Institute of Electrical and Electronics Engineers

² SAIDI: System Average Interruption Duration Index

³ O&M: Operations and Maintenance

Event Restoration – YTD Cost Summary
2017 Restoration Costs Detail by Qualifying Event

Event Date	Qualified Events Deferred Account	Capital Costs	O&M Costs Not Deferrable	O&M Costs Deferrable Accumulation	Total O&M Costs	Total
2/4/2017	\$7,965,187(r)	\$627,795(r)	\$0	\$8,000,000	\$8,000,000	\$16,592,982(r)
4/7/2017	\$638,271(r)	\$68,119(r)	\$0	\$0	\$0	\$780,060(r)
5/4/2017	\$3,046,581	\$482,135	\$0	\$0	\$0	\$3,528,716

(r) = Revised

2017 YTD Storm Restoration Costs Detail

Qualifying Events Deferred Account	Capital	O&M - Not Deferrable	O&M - Deferrable Accumulation	Total O&M	Total
\$11,650,040	\$1,178,049	\$0	\$8,000,000	\$8,000,000	\$20,828,088

Detail Documents

Restoration Costs Detail – Current Event

Detailed List of Distribution Circuits with Outages

Terms, Codes and Definitions Used on Detail Reports

Restoration Costs Detail – Current Event

Puget Sound Energy							
May 4, 2017- Qualifying Storm Damage Restoration Costs							
	Qualifying Events Deferred Account	Capital	O&M - Not Deferrable	O&M - Deferrable Accumulation	Total O&M	Total	
Labor							
ST	\$ -	\$ 1,736	\$ -	\$ 19,999	\$ 19,999	\$ 21,736	
OT	\$ -	\$ 196	\$ -	\$ 221,680	\$ 221,680	\$ 221,877	
Total Labor	\$ -	\$ 1,933	\$ -	\$ 241,680	\$ 241,680	\$ 243,612	
Labor OH	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Materials	\$ -	\$ 55,305	\$ -	\$ 145,703	\$ 145,703	\$ 201,007	
Contractors	\$ -	\$ 317,810	\$ -	\$ 2,485,895	\$ 2,485,895	\$ 2,803,705	
Other Direct Charges	\$ -	\$ 23	\$ -	\$ 38,495	\$ 38,495	\$ 38,518	
Fleet	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Other Assessments	\$ -	\$ 107,065	\$ -	\$ 134,809	\$ 134,809	\$ 241,874	
Deferred Expenses	\$ 3,046,581	\$ -	\$ -	\$ (3,046,581)	\$ (3,046,581)	\$ -	
	\$ 3,046,581	\$ 482,135	\$ -	\$ -	\$ -	\$ 3,528,716	

Detailed List of Outages – 5/4/2017, First T_{MED}-Exceeding Day

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00371843-1	5/4/2017	1:35:01 AM	SIL-15	ECE	EF	OTF	1	113
P00371844-1	5/4/2017	3:42:34 AM	CHI-12	ECD	EF	UFJ	16	4,302
P00371847-1	5/4/2017	4:03:30 AM	SOO-26	EBI	UN	UTC	245	22,018
P00371853-1	5/4/2017	5:55:42 AM	LWS-15	EBJ	EF	OCN	4	637
P00371857-1	5/4/2017	7:15:34 AM	CEK-16	ECE	CP	OGD	28	21,021
P00371860-1	5/4/2017	7:35:50 AM	KIT-25	EBH	EF	UPC	13	6,911
P00371708-1	5/4/2017	8:20:49 AM	HEM-15	ECA	SO	UPT	13	1,743
P00339038-1	5/4/2017	8:31:10 AM	PAT-17	ECC	SO	OCO	57	20,841
P00371862-1	5/4/2017	8:39:59 AM	PIN-23	EBD	SO	OCE	6	2,435
P00371623-1	5/4/2017	9:18:12 AM	SBE-23	EBE	SO	OCO	22	8,977
P00371867-1	5/4/2017	9:36:45 AM	VIS-26	EAA	EF	OTR	1	256
P00371878-1	5/4/2017	9:47:29 AM	EVA-23	EBJ	UN	OCO	450	25,433
P00371839-2	5/4/2017	10:04:38 AM	KNM-27	EBD	EF	USV	1	259
P00371896-1	5/4/2017	10:36:29 AM	BLA-13	EAA	SO	UTC	2	406
11304975	5/4/2017	11:32:02 AM	SOO-23	EBI	EF	UHH	1	164
P00371911-1	5/4/2017	11:43:11 AM	VWY-15	EAA	BA	OTF	2	74
P00371908-1	5/4/2017	11:44:07 AM	NBO-22	EBD	SO	OFU	2	199
P00371873-1	5/4/2017	11:56:20 AM	KNM-25	EBD	SO	OCR	7	640
11305405	5/4/2017	12:02:00 PM	NUG-26	EAA	LI	UEL	1	391
P00371925-1	5/4/2017	1:06:59 PM	CHI-12	ECD	OE	UEL	2	284
P00371926-1	5/4/2017	1:08:19 PM	EGT-28	EBE	EF	UFJ	102	23,902
P00371851-2	5/4/2017	2:10:00 PM	SOO-23	EBI	EF	UHH	1	6
P00371936-1	5/4/2017	2:18:36 PM	VWY-15	EAA	EF	OTR	2	815
P00371937-1	5/4/2017	2:25:43 PM	LLT-13	EBD	LI	OAR	4	305
P00371939-1	5/4/2017	2:41:15 PM	VWY-12	EAA	EF	UPT	1	455
P00371941-1	5/4/2017	2:44:33 PM	BTN-35	EAC	EF	UPT	1	523
P00371952-1	5/4/2017	3:25:42 PM	FLD-12	EAD	LI	OTF	2	220
P00371954-1	5/4/2017	3:28:39 PM	GAR-13	ECA	LI	OCO	1,293	127,490
P00371966-1	5/4/2017	3:32:38 PM	MCK-12	EAA	EF	UFJ	5	868
P00371980-1	5/4/2017	3:44:36 PM	EDG-16	ECA	LI	OTR	9	6,095
P00371981-1	5/4/2017	3:46:01 PM	EDG-16	ECA	LI	OTF	4	2,329
P00371983-1	5/4/2017	3:46:09 PM	EDG-16	ECA	LI	OTF	3	1,537
P00371984-1	5/4/2017	3:47:40 PM	MWD-16	EBE	LI	OTR	3	2,193
P00371985-1	5/4/2017	3:47:47 PM	EDG-16	ECA	LI	OTR	40	41,597
P00371986-1	5/4/2017	3:48:23 PM	DGR-15	ECA	LI	OTF	6	2,766
P00373055-1	5/4/2017	3:48:36 PM	EDG-16	ECA	LI	OTF	2	1,017
P00371987-1	5/4/2017	3:49:00 PM	SHD-18	EBI	LI	OCO	1,402	140,386
P00372042-1	5/4/2017	3:51:23 PM	LHL-23	EBE	EF	UFJ	66	9,637
P00371995-1	5/4/2017	3:51:48 PM	SIN-25	ECD	LI	OTR	16	2,374
P00372000-1	5/4/2017	3:52:18 PM	PEA-16	EBJ	LI	OFU	22	2,232

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00372002-1	5/4/2017	3:52:39 PM	MCW-16	ECE	EF	UFJ	27	7,635
P00372024-1	5/4/2017	3:53:00 PM	CTR-24	EBJ	LI	OCA	114	12,029
P00373054-1	5/4/2017	3:54:25 PM	EDG-16	ECA	LI	OFC	2	2,754
P00372021-1	5/4/2017	3:59:12 PM	MST-25	EBJ	LI	OTR	22	14,159
P00372023-1	5/4/2017	4:00:19 PM	GLC-13	EBJ	LI	OCO	91	48,288
P00372027-1	5/4/2017	4:01:37 PM	SIL-16	ECE	LI	OTR	9	3,299
P00372028-1	5/4/2017	4:04:00 PM	MTH-15	EBJ	LI	OTF	2	423
P00372034-1	5/4/2017	4:07:59 PM	SIL-15	ECE	LI	OFU	11	2,717
P00372041-1	5/4/2017	4:12:55 PM	KNT-26	EBJ	LI	OTR	4	2,058
P00372048-1	5/4/2017	4:21:45 PM	SLA-17	EAA	EF	OTR	1	476
P00372052-1	5/4/2017	4:22:43 PM	ROC-15	ECC	LI	OCO	1,006	465,973
P00372050-1	5/4/2017	4:24:07 PM	EGT-25	EBE	LI	OTF	2	170
P00372053-1	5/4/2017	4:27:37 PM	BLU-16	ECC	TV	OCO	1,373	1,046,881
P00371949-2	5/4/2017	4:28:18 PM	WOD-13	EBH	AC	OTR	1	132
P00372477-1	5/4/2017	4:28:50 PM	GAR-13	ECA	LI	OTR	2	1,469
P00372060-1	5/4/2017	4:28:59 PM	ORC-13	EBJ	LI	OTF	2	1,184
P00372067-1	5/4/2017	4:31:26 PM	BRS-24	EAC	EF	UEL	12	7,962
P00372073-1	5/4/2017	4:34:55 PM	CUM-15	EBI	EF	OTF	27	6,246
P00372075-1	5/4/2017	4:36:36 PM	MST-25	EBJ	LI	OTF	3	270
P00372078-1	5/4/2017	4:36:55 PM	GRV-15	ECA	LI	OTR	2	2,187
P00372092-1	5/4/2017	4:38:04 PM	SPG-13	ECC	TV	OPO	1,158	4,335,891
P00373816-1	5/4/2017	4:38:47 PM	CHA-15	ECC	LI	OFU	44	175,174
P00372085-1	5/4/2017	4:38:59 PM	AIR-23	ECC	TV	OTR	871	597,058
P00372086-1	5/4/2017	4:39:04 PM	ROC-26	ECC	LI	OCO	18	7,286
P00372093-1	5/4/2017	4:39:09 PM	SPG-14	ECC	TV	OPO	610	2,639,219
P00372100-1	5/4/2017	4:42:27 PM	GAG-13	EAC	EF	OPO	-	131
P00372112-1	5/4/2017	4:42:30 PM	SWI-16	ECC	LI	OCO	797	1,720,005
P00372101-1	5/4/2017	4:43:03 PM	CED-13	ECA	LI	OTR	3	3,198
P00371916-2	5/4/2017	4:43:44 PM	GAG-13	EAC	EF	OPO	14	2,630
P00372118-1	5/4/2017	4:44:38 PM	BLU-13	ECC	TV	OCO	-	81,026
P00372127-1	5/4/2017	4:45:31 PM	KNT-26	EBJ	LI	OTR	4	2,027
P00373185-1	5/4/2017	4:45:53 PM	CHA-13	ECC	TV	OPO	568	1,035,465
P00372182-1	5/4/2017	4:47:00 PM	LAC-15	ECC	TV	OPO	724	499,017
P00372184-1	5/4/2017	4:47:05 PM	SWI-13	ECC	TV	OCO	928	607,270
P00372183-1	5/4/2017	4:47:05 PM	PAT-17	ECC	TV	OCO	2,567	1,188,693
P00372155-1	5/4/2017	4:47:08 PM	DUV-13	EBD	LI	OFU	2	133
P00372166-1	5/4/2017	4:48:02 PM	OBY-17	ECC	UN	OFU	115	44,783
P00373097-1	5/4/2017	4:48:12 PM	SWI-13	ECC	TV	OCO	85	164,625
P00372200-1	5/4/2017	4:48:21 PM	LAC-17	ECC	TV	OPO	1,832	3,580,113
P00372918-1	5/4/2017	4:49:56 PM	SWI-21	ECC	TV	OTR	7,591	11,520,205
P00372698-1	5/4/2017	4:50:00 PM	TLN-0154	ECC	TV	OCO	-	620,375
P00372216-1	5/4/2017	4:51:46 PM	LAT-17	EBJ	LI	OFU	133	52,905

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00372284-1	5/4/2017	4:52:57 PM	MCA-13	ECC	TV	OTR	971	1,112,713
P00372239-1	5/4/2017	4:53:00 PM	MCA-15	ECC	TV	OCO	189	181,393
P00372466-1	5/4/2017	4:54:22 PM	TAN-16	ECC	TV	OPO	362	1,339,066
P00372274-1	5/4/2017	4:55:52 PM	LUH-14	ECC	UN	OCO	3,762	1,052,420
P00372325-1	5/4/2017	4:57:59 PM	FRG-22	ECC	TV	OTF	1	591
P00372354-1	5/4/2017	4:59:27 PM	SWI-16	ECC	TV	OTR	3	8,673
P00372365-1	5/4/2017	5:00:48 PM	ROC-26	ECC	LI	OTR	32	42,858
P00372390-1	5/4/2017	5:02:37 PM	WAB-12	EBI	LI	OTF	1	94
P00372416-1	5/4/2017	5:03:22 PM	HAW-12	ECC	TV	OCO	1,764	311,376
P00372404-1	5/4/2017	5:03:42 PM	FRG-22	ECC	TV	OCO	19	9,559
P00373173-1	5/4/2017	5:05:05 PM	SWI-15	ECC	TV	OTR	29	50,888
P00372435-1	5/4/2017	5:05:07 PM	ELL-15	EBJ	LI	OTR	81	9,364
P00372422-1	5/4/2017	5:05:16 PM	LAC-13	ECC	EF	OTF	3	2,414
P00373807-1	5/4/2017	5:05:52 PM	CHA-15	ECC	TV	OCO	60	258,346
P00372449-1	5/4/2017	5:08:12 PM	LAT-17	EBJ	LI	OTR	4	3,097
P00372454-1	5/4/2017	5:08:57 PM	GRV-15	ECA	LI	OTR	1	1,217
P00373772-1	5/4/2017	5:09:15 PM	CHA-15	ECC	TV	OCO	-	42,790
P00372922-1	5/4/2017	5:11:01 PM	BLU-17	ECC	TV	OCO	128	98,339
P00372469-1	5/4/2017	5:11:15 PM	BLU-13	ECC	TV	OCO	468	512,409
P00372468-1	5/4/2017	5:11:16 PM	LAC-13	ECC	TV	OCN	141	88,628
P00373598-1	5/4/2017	5:12:34 PM	CHA-15	ECC	TV	OCO	15	26,565
P00372753-1	5/4/2017	5:13:00 PM	TLN-0147	ECC	LI	OPO	460	(1)
P00372482-1	5/4/2017	5:14:39 PM	OBY-17	ECC	EF	OTR	27	34,480
P00373804-1	5/4/2017	5:17:18 PM	CHA-15	ECC	TV	OCO	17	76,498
P00373109-1	5/4/2017	5:17:58 PM	SWI-17	ECC	TV	OCO	62	126,344
P00373297-1	5/4/2017	5:28:31 PM	BLU-16	ECC	TV	OCO	7	7,766
P00372577-1	5/4/2017	5:30:00 PM	HOB-16	EBI	LI	OTF	1	252
P00373036-1	5/4/2017	5:31:26 PM	LAC-16	ECC	LI	OCO	119	133,617
P00372596-1	5/4/2017	5:31:47 PM	CAR-16	EAA	EF	OFC	1	232
P00372598-1	5/4/2017	5:31:50 PM	LTA-18	ECA	LI	OTF	1	243
P00372601-1	5/4/2017	5:33:27 PM	LMC-27	EBF	LI	OTR	6	3,113
P00372607-1	5/4/2017	5:36:11 PM	LAC-13	ECC	TV	OCO	54	118,604
P00372612-1	5/4/2017	5:39:01 PM	ING-15	EBD	LI	OTR	14	4,341
P00372772-1	5/4/2017	5:39:48 PM	LMC-27	EBE	LI	OTF	4	396
P00372616-1	5/4/2017	5:40:53 PM	HOB-16	EBI	LI	OAR	2	2,086
P00372625-1	5/4/2017	5:44:55 PM	HOB-16	EBI	LI	OTR	3	2,144
P00372631-1	5/4/2017	5:47:04 PM	HOB-16	EBI	LI	OTR	4	3,816
P00372632-1	5/4/2017	5:47:15 PM	CLY-27	EBE	LI	OTF	4	325
P00372634-1	5/4/2017	5:47:48 PM	HAM-15	EAC	LI	OTR	63	23,942
P00372648-1	5/4/2017	5:51:33 PM	BKB-13	EAC	LI	OTR	7	2,968
P00372653-1	5/4/2017	5:52:46 PM	CHA-15	ECC	TV	OCO	461	1,706,639
P00372651-1	5/4/2017	5:53:57 PM	SKI-16	EBD	LI	UTC	69	8,765

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00372652-1	5/4/2017	5:54:32 PM	SNQ-15	EBF	LI	OTR	16	1,558
P00372658-1	5/4/2017	5:58:09 PM	WAY-13	EBD	LI	OTR	5	2,658
P00372659-1	5/4/2017	5:58:55 PM	NUG-26	EAA	LI	OFU	72	4,122
P00372665-1	5/4/2017	6:01:37 PM	PAT-15	ECC	TV	OCO	4	3,466
P00372596-2	5/4/2017	6:03:13 PM	CAR-16	EAA	EF	OTR	2	886
P00372671-1	5/4/2017	6:06:27 PM	MIR-16	EBF	LI	OTR	3	3,609
P00372672-1	5/4/2017	6:06:59 PM	DUV-13	EBD	LI	OCO	30	1,160
P00372674-1	5/4/2017	6:08:10 PM	YEL-25	ECC	TV	OCO	15	8,472
P00372688-1	5/4/2017	6:12:10 PM	BLU-16	ECC	TV	OCO	41	90,236
P00373024-1	5/4/2017	6:13:30 PM	PAN-14	EBJ	LI	OFU	1	263
P00372687-1	5/4/2017	6:14:05 PM	MIR-16	EBF	LI	OTR	1	1,204
P00372894-1	5/4/2017	6:18:51 PM	LAC-13	ECC	LI	OTF	14	7,570
P00371995-1	5/4/2017	6:21:39 PM	SIN-25	ECD	LI	OTR	4	2,227
P00372699-1	5/4/2017	6:23:43 PM	CTR-24	EBJ	LI	OTR	1	745
P00372700-1	5/4/2017	6:25:07 PM	GAR-13	ECA	LI	OTR	1	616
P00372709-1	5/4/2017	6:35:16 PM	BLU-16	ECC	TV	OSV	1	1,135
P00372710-1	5/4/2017	6:36:11 PM	CPV-15	EAD	EF	OTF	3	219
P00372711-1	5/4/2017	6:36:49 PM	HAM-15	EAC	LI	OTR	3	2,188
P00372716-1	5/4/2017	6:39:31 PM	GAR-13	ECA	LI	OTR	1	320
P00372717-1	5/4/2017	6:40:35 PM	GAR-13	ECA	LI	OTR	2	649
P00372720-1	5/4/2017	6:42:27 PM	LAT-17	EBJ	LI	OTR	2	1,441
P00372724-1	5/4/2017	6:43:39 PM	GAR-13	ECA	LI	OTR	1	391
P00372727-1	5/4/2017	6:46:17 PM	DUV-15	EBD	LI	OTR	33	2,915
P00372730-1	5/4/2017	6:47:31 PM	GAR-13	ECA	LI	OTR	1	360
P00372731-1	5/4/2017	6:48:26 PM	SHD-18	EBI	LI	OFU	16	9,334
P00372739-1	5/4/2017	6:49:37 PM	FCH-24	ECA			1,795	154,011
P00372736-1	5/4/2017	6:50:14 PM	LTA-18	ECA	LI	OTF	1	170
P00372741-1	5/4/2017	6:51:22 PM	TOL-15	EBD	LI	OTR	2	1,150
P00372742-1	5/4/2017	6:51:48 PM	GAR-13	ECA	LI	OTR	1	20,910
P00372744-1	5/4/2017	6:54:12 PM	GAR-13	ECA	LI	OTR	1	576
P00372745-1	5/4/2017	6:55:06 PM	KNT-26	EBJ	LI	OTR	1	339
P00372747-1	5/4/2017	6:55:41 PM	OVE-15	EBE	LI	OCO	102	17,901
P00372750-1	5/4/2017	6:57:18 PM	BRS-24	EAC	LI	UTC	9	1,664
P00372751-1	5/4/2017	6:57:26 PM	WIS-15	EBF	LI	OTR	9	2,488
P00372771-1	5/4/2017	7:04:09 PM	GRA-15	EBJ	LI	PMF	30	9,056
P00372763-1	5/4/2017	7:06:41 PM	GRA-15	EBJ	LI	PMF	53	15,880
P00373000-1	5/4/2017	7:07:00 PM	ALP-01	EBJ	LI	OCO	2	310
P00372767-1	5/4/2017	7:08:19 PM	SKI-16	EBD	LI	OTR	55	3,718
P00372773-1	5/4/2017	7:13:06 PM	NUG-26	EAA	EF	UFJ	15	6,619
P00372969-1	5/4/2017	7:13:27 PM	MST-23	EBJ	LI	OFU	84	9,720
P00372970-1	5/4/2017	7:15:19 PM	MST-23	EBJ	LI	OTR	1	685
P00372780-1	5/4/2017	7:16:08 PM	GRA-15	EBJ	LI	PMF	75	21,890

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00372783-1	5/4/2017	7:16:27 PM	PEA-17	EBJ	LI	OTF	6	3,132
P00372790-1	5/4/2017	7:17:44 PM	EVA-23	EBJ	LI	OCO	1,865	329,095
P00372792-1	5/4/2017	7:17:49 PM	NOP-26	EBJ	LI	OCO	1,783	135,775
P00372794-1	5/4/2017	7:20:17 PM	MST-26	EBJ	LI	OFU	42	8,061
P00372929-1	5/4/2017	7:20:22 PM	MST-26	EBJ	LI	OTF	13	3,003
P00372797-1	5/4/2017	7:20:51 PM	SWI-16	ECC	TV	OCO	2	5,328
P00372798-1	5/4/2017	7:21:10 PM	MVW-13	EBJ	LI	OTR	3	3,605
P00372799-1	5/4/2017	7:21:29 PM	ORC-17	EBJ	LI	OTF	4	1,805
P00372801-1	5/4/2017	7:22:47 PM	MTH-15	EBJ	EF	OTR	4	2,441
P00372679-1	5/4/2017	7:23:47 PM	LGY-12	EAD	LI	OFU	239	2,289
P00372805-1	5/4/2017	7:25:35 PM	PRE-14	EBE	LI	OFU	58	3,711
P00372807-1	5/4/2017	7:25:54 PM	BRS-24	EAC	TV	OPO	3	1,125
P00372809-1	5/4/2017	7:28:10 PM	MST-26	EBJ	LI	OFU	6	1,198
P00372967-1	5/4/2017	7:36:04 PM	MST-23	EBJ	LI	OTF	5	1,542
P00372821-1	5/4/2017	7:38:04 PM	GRV-15	ECA	LI	OTR	2	2,556
P00372826-1	5/4/2017	7:42:02 PM	LGY-12	EAD	TV	OFU	143	5,022
P00372832-1	5/4/2017	7:47:40 PM	LAB-26	EAA	EF	OTF	4	355
P00372834-1	5/4/2017	7:51:13 PM	ELL-15	EBJ	LI	OTR	1	540
P00372837-1	5/4/2017	7:53:15 PM	AIR-23	ECC	TV	OCO	65	36,862
P00372968-1	5/4/2017	7:56:09 PM	MST-23	EBJ	LI	OTR	8	4,748
P00372852-1	5/4/2017	7:58:27 PM	SEQ-15	EBJ	LI	UPT	1	1,161
P00372854-1	5/4/2017	8:02:01 PM	HOL-12	ECA	LI	OTR	6	7,176
P00372855-1	5/4/2017	8:02:27 PM	GLC-14	EBJ	LI	OTF	8	4,144
P00372857-1	5/4/2017	8:02:43 PM	MST-26	EBJ	LI	UTC	2	444
P00372861-1	5/4/2017	8:03:49 PM	TAN-13	ECC	TV	OJU	3,094	1,892,689
P00372685-1	5/4/2017	8:06:26 PM	PAN-14	EBJ	LI	OTF	2	351
P00371927-2	5/4/2017	8:06:35 PM	EAR-13	EBJ	AC	UPT	1	10
P00372867-1	5/4/2017	8:15:04 PM	ORC-13	EBJ	LI	OTR	1	1,068
P00372868-1	5/4/2017	8:15:27 PM	HAW-12	ECC	TV	OPO	173	64,281
P00372826-1	5/4/2017	8:17:28 PM	LGY-12	EAD	TV	OFU	93	2,916
P00372874-1	5/4/2017	8:19:12 PM	FCH-24	ECA	EF	OHR	1,040	98,280
P00372044-1	5/4/2017	8:23:36 PM	KWH-23	EBE	EF	USV	1	213
P00372892-1	5/4/2017	8:25:58 PM	CPV-15	EAD	LI	OTR	3	902
P00372775-1	5/4/2017	8:29:44 PM	MST-23	EBJ	LI	OTF	4	153
P00372899-1	5/4/2017	8:29:46 PM	SWI-16	ECC	LI	OTR	5	12,364
P00372902-1	5/4/2017	8:32:58 PM	CAP-13	ECC	TV	OCO	2	2,335
P00372916-1	5/4/2017	8:36:30 PM	MST-26	EBJ	LI	OTF	4	522
P00372919-1	5/4/2017	8:39:18 PM	CAP-13	ECC	LI	OTF	4	4,646
P00372920-1	5/4/2017	8:39:32 PM	CAP-13	ECC	TV	OTR	4	8,647
P00372928-1	5/4/2017	8:43:57 PM	ALG-15	EAA	TV	OSV	1	100
P00372930-1	5/4/2017	8:46:37 PM	RAI-12	ECC	UN	OTF	1	479
P00372931-1	5/4/2017	8:46:55 PM	OSC-23	EBI	TV	OCO	29	28,159

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00372933-1	5/4/2017	8:48:25 PM	LTA-18	ECA	LI	OTF	2	184
P00372940-1	5/4/2017	8:50:00 PM	MCA-16	ECC	TV	OCO	2,154	1,159,746
P00372936-1	5/4/2017	8:50:17 PM	HOL-15	ECA	LI	OTR	151	53,412
P00372941-1	5/4/2017	8:52:09 PM	BRS-24	EAC	TV	OFU	7	396
P00372942-1	5/4/2017	8:52:12 PM	RAI-11	ECC	LI	OTR	5	6,667
P00372948-1	5/4/2017	8:52:13 PM	GRV-16	ECA	LI	OFU	151	54,010
P00372952-1	5/4/2017	8:57:57 PM	FRU-26	ECA	LI	OTR	1	651
P00372953-1	5/4/2017	8:58:29 PM	STW-12	ECA	LI	OTF	5	973
P00372956-1	5/4/2017	9:00:56 PM	CED-17	ECA	LI	OCO	139	12,487
P00372964-1	5/4/2017	9:06:32 PM	SKI-16	EBD	LI	OTR	55	25,394
P00372972-1	5/4/2017	9:09:15 PM	GAR-13	ECA	LI	OTR	1	406
P00372974-1	5/4/2017	9:16:12 PM	CED-17	ECA	LI	OTR	3	4,482
P00372977-1	5/4/2017	9:20:07 PM	CED-17	ECA	LI	OTR	1	1,490
P00372979-1	5/4/2017	9:24:37 PM	PAT-13	ECC	TV	OCO	7	3,442
P00372981-1	5/4/2017	9:28:41 PM	EVA-27	EBJ	LI	OFU	79	6,281
P00372982-1	5/4/2017	9:29:34 PM	FRU-26	ECA	LI	OTR	3	72
P00372986-1	5/4/2017	9:35:12 PM	MTH-13	EBJ	LI	OTR	2	1,196
P00372987-1	5/4/2017	9:36:51 PM	FRA-13	ECD	TV	OFU	4	585
P00372989-1	5/4/2017	9:37:48 PM	EVA-23	EBJ	LI	OTR	3	3,191
P00372991-1	5/4/2017	9:38:50 PM	EVA-27	EBJ	LI	OTR	4	3,779
P00372992-1	5/4/2017	9:39:42 PM	GLC-15	EBJ	LI	OTF	4	1,535
P00372994-1	5/4/2017	9:42:49 PM	PET-15	EAC	EF	UFJ	5	2,048
P00372995-1	5/4/2017	9:43:10 PM	PAN-16	EBJ	LI	OTR	2	974
P00372577-1	5/4/2017	9:48:22 PM	HOB-16	EBI	LI	OTF	1	139
P00373001-1	5/4/2017	9:48:44 PM	EVA-27	EBJ	LI	OTF	2	902
P00373002-1	5/4/2017	9:50:43 PM	LAC-15	ECC	TV	OCO	104	18,399
P00373003-1	5/4/2017	9:52:02 PM	ORC-13	EBJ	LI	OTR	2	1,942
P00373007-1	5/4/2017	9:57:21 PM	EVA-27	EBJ	LI	OTF	2	457
P00373008-1	5/4/2017	9:58:30 PM	FCH-24	ECA	LI	OFU	14	1,256
P00372027-1	5/4/2017	10:08:37 PM	SIL-16	ECE	LI	OTR	2	354
P00373034-1	5/4/2017	10:57:19 PM	LHL-22	EBE	TV	OCO	112	9,248
P00373037-1	5/4/2017	11:22:45 PM	DGR-17	ECA	LI	OTF	1	639
P00373040-1	5/4/2017	11:34:40 PM	BTR-22	EBE	LI	OTR	3	1,285
P00373044-1	5/4/2017	11:49:39 PM	SNQ-15	EBF	LI	OTF	3	313
P00373045-1	5/4/2017	11:50:32 PM	PLU-24	ECC	TV	OCO	45	78,874
P00373047-1	5/4/2017	11:54:08 PM	CHA-13	ECC	LI	UOT	151	77,823

Terms, Codes and Definitions Used on Detail Reports

Notification (NUMBER)	A number assigned by SAP, identifying the outage record	
Date (DATE)	The date of the outage	
Time (TIME)	The time of the outage	
Circuit (CKT)	The circuit identifier for the affected circuit	
Area (MPG)	Maintenance Planner Group A code representing the energy, region and service center	
	EAA – Bellingham	EBJ – South King
	EAC – Skagit	EBL – Vashon
	EAD – Whidbey	ECA – Puyallup
	EBD – Redmond	ECC – Olympia
	EBE – Factoria	ECD – Port Orchard
	EBF – Snoqualmie	ECE – Poulsbo
	EBI – Enumclaw	
Cause (CAZ)	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 (EQT)	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	
CUST OUT (CUST.OUT)	Customer Out , The number of customers without power for any given outage record	
CUST MIN (CUST. MIN)	Customer Minutes , The total number of minutes customers were without power for any given record	

Media & Communication Coverage

About 2,500 lightning strikes! Thunderstorms down trees, knock out power to thousands

POSTED 4:28 PM, MAY 4, 2017, BY Q13 FOX NEWS STAFF, NADIA ROMERO AND ADAM MERTZ, UPDATED AT 07:46AM, MAY 5, 2017



SEATTLE -- A series of strong thunderstorms, with lightning strikes, hail and strong gusts, rolled through Western Washington Thursday afternoon, downing trees and knocking out power to tens of thousands.

At 10:25 p.m., Puget Sound Energy said over 36,000 customers were still without power, many in Thurston County.

The Thurston County Sheriff's Office said numerous live wires and power poles were down in the area of Yelm Hwy between Wiggins and Corporate Center and that the roadway was completely closed.

The National Weather Service in Seattle said a wind gust of 50 mph was recorded at Olympia Airport.

Trees were blown over, with some crashing down onto homes or vehicles or onto roads. Lacey seemed to be particularly hard-hit.

The NWS said there were about 2,500 cloud-to-ground lightning strikes from Lewis County to the Canadian border on Thursday.

Snohomish County said 4,400 PUD customers lost power in the Martha Lake/Lynnwood areas. And police in Kent and Lacey said traffic lights went out due to power loss there, too.

The National Weather Service in Seattle said it had received reports of branches and trees down 4 miles east of Grand Mound in Thurston County. And then it tweeted this picture from one of its spotters in Thurston County.

