

2020 Qualifying Events Report

February 7, 2020 Event

Filed on May 07, 2020



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Event Description

Event Date and Time

Start: 2/07/2020, 18:00

End: 2/08/2020, 18:00

Event Type

Snow

Service Areas Significantly Affected

Kitsap County and the east King County.

Number of Customers Affected

System wide, approximately 45,259 customers were without power during the course of this event.

Summary of System Impacts

Total Number of Outages for the Event	219
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Transmission Lines Affected	10
Impacted Substations	2

Mobilization Summary

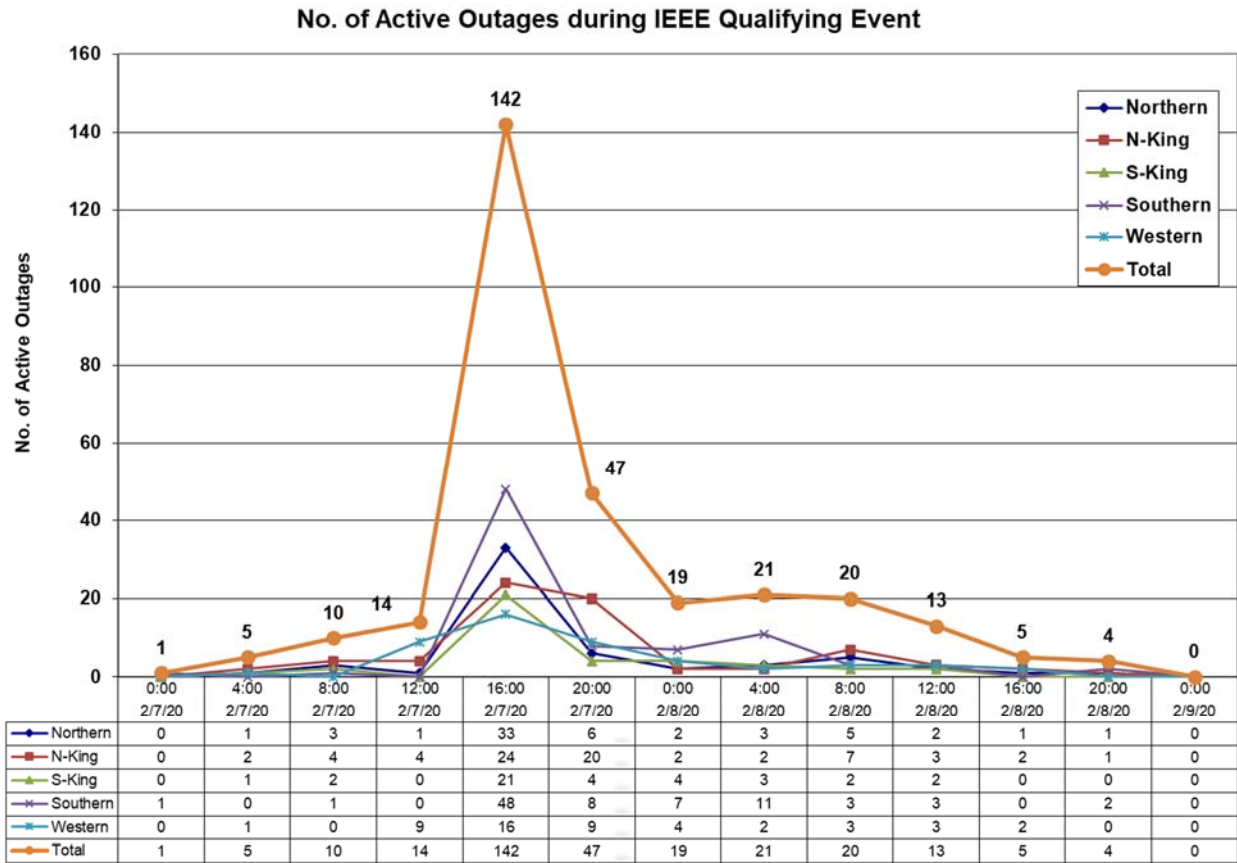
Operating Bases Placed In Emergency Status

Base	Date Opened	Time Opened	Date Closed	Time Closed
Whatcom/Skagit	N/A			
Island	N/A			
North King	2/7/2020	19:00	2/8/2020	11:30
South King	2/7/2020	22:00	2/8/2020	13:30
Pierce	2/7/2020	19:00	2/8/2020	15:00
Thurston	2/7/2020	19:00	2/8/2020	15:00
Kitsap	2/7/2020	19:00	2/8/2020	10:30
Vashon Island	2/7/2020	19:00	2/8/2020	10:30
Kittitas	N/A			

Emergency Coordination Center (ECC)

	Date Opened	Time Opened	Date Closed	Time Closed
ECC	2/7/2020	18:00	2/8/2020	15:00

Active Outage Events



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
- 8.

Puget Sound Energy's IEEE Major Event Threshold (T_{MED}) for 2020: 6.31 Minutes

Qualified Events - 2020 Current Event – Calculation Detail

Event Date, Time Range	Total Customer Minutes	Average Customer Count	Event SAIDI (Customer Minutes /Customer Count)
2/7/2020 18:00 – 2/8/2020 18:00	11,478,387	1,177,553	9.75

Daily SAIDI Detail YTD

First Day that Daily SAIDI Exceeded PSE's TMED of 6.31 Minutes by Qualifying Event

Date	Daily SAIDI (from midnight to midnight)	Total O&M ³ Costs
1/13/2020	10.25	\$5,266,086
1/31/2020	22.22	\$2,066,438
2/7/2020	9.82	\$1,641,538

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

Starting from the 2018 calendar year, PSE continues its existing Qualifying Storm Loss Deferral Mechanism for any storm restoration costs incurred on or after January 1, 2018, with the following modifications that were agreed to in settlement and the settlement was approved by the Commission in PSE's 2017 general rate case :

- (i) the cumulative annual cost threshold for deferral of storms under the Qualifying Storm Loss Deferral Mechanism shall be increased from \$8 million to \$10 million,
 - (ii) qualifying events that cost less than \$500,000 will not qualify for deferral, and
 - (iii) the cumulative annual cost threshold for the Qualifying Storm Loss Deferral Mechanism shall exclude storm events with costs less than \$500,000.
- (Page 22 of Appendix B to Order 08 in consolidated Dockets UE-170033 and UG-170034)

2020 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 Costs
1/13/2020	\$0	\$1,591,695	\$0	\$5,266,086	\$5,266,086	\$6,857,781
1/31/2020	\$0	\$614,518	\$0	\$2,066,438	\$2,066,438	\$2,680,956
2/07/2020	\$0	\$433,498	\$0	\$1,641,538	\$1,641,538	\$2,075,036

2020 YTD Storm Restoration Costs Detail

Qualifying Events Deferred Account	Capital Costs	O&M Costs - Not Deferrable	O&M Costs - Deferrable Accumulation	Total O&M Costs	Total Costs
\$0	\$3,034,186	\$0	\$9,894,246	\$9,894,246	\$12,928,432

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							
February 7, 2020 Qualifying Storm Damage Repair Costs							
	Qualifying Events Deferred Account	Capital	O&M - Not Deferrable	O&M - Deferrable Accumulation	Total O&M	Total	
Labor							
ST	\$ -	\$ 31	\$ -	\$ 14,906	\$ 14,906	\$ 14,936	
OT	\$ -	\$ 108	\$ -	\$ 264,390	\$ 264,390	\$ 264,498	
Total Labor	\$ -	\$ 139	\$ -	\$ 279,296	\$ 279,296	\$ 279,435	
Labor OH	\$ -	\$ 102,783	\$ -	\$ 2,857	\$ 2,857	\$ 105,640	
Materials	\$ -	\$ 16,544	\$ -	\$ 40,585	\$ 40,585	\$ 57,129	
Contractors	\$ -	\$ 311,996	\$ -	\$ 1,176,818	\$ 1,176,818	\$ 1,488,815	
Other Direct Charges	\$ -	\$ 805	\$ -	\$ 8,121	\$ 8,121	\$ 8,926	
Fleet	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Other Assessments	\$ -	\$ 1,231	\$ -	\$ 133,860	\$ 133,860	\$ 135,092	
Deferred Expenses		\$ -	\$ -		\$ -	\$ -	
	\$ -	\$ 433,498	\$ -	\$ 1,641,538	\$ 1,641,538	\$ 2,075,036	

ST: Standard time

OT: Over time

OH: Overhead

Detailed List of Outages – 1/13/2020, First TMED-Exceeding Day

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00597112-1	2/7/2020	3:52:03 AM	BUC-16	ECA	EF	OCO	9	2,515
P00597115-1	2/7/2020	6:21:20 AM	KLA-15	EBF	TV	OCR	268	46,383
P00597128-1	2/7/2020	7:17:51 AM	CPV-13	EAD	EF	USV	1	540
P00597129-1	2/7/2020	7:30:45 AM	SIL-16	ECE	EF	UPC	37	14,709
P00597114-1	2/7/2020	7:37:43 AM	GWR-13	EBI	ND	OCO	-	3,924
P00596930-1	2/7/2020	7:52:11 AM	AVO-24	EBD	SO	UEL	6	2,447
P00597135-1	2/7/2020	8:18:40 AM	RDO-16	EBJ	EF	OCO	5	41
P00597137-1	2/7/2020	8:35:54 AM	SWA-16	EAD	EF	UTR	31	6,975
P00597140-1	2/7/2020	8:48:18 AM	EDG-16	ECA	SO	OFU	3	432
P00597148-1	2/7/2020	9:09:02 AM	WAY-12	EBD	SO	UHH	2	460
P00596843-1	2/7/2020	9:22:53 AM	PLA-23	EBD	SO	UOT	6	1,095
P00597160-1	2/7/2020	10:12:36 AM	NRU-25	EBE	EF	USV	1	640
P00597169-1	2/7/2020	10:47:32 AM	HOB-16	EBI	TV	OSV	1	162
P00597171-1	2/7/2020	10:50:21 AM	SUM-21	EAC	EF	OTR	1	328
P00597185-1	2/7/2020	11:46:36 AM	LOC-22	EBE	EF	OTF	3	267
P00597188-1	2/7/2020	11:57:33 AM	LYN-24	EAA	BA	OFU	127	7,938
P00597229-1	2/7/2020	1:59:10 PM	MIL-16	ECE	TV	OCO	43	22,552
P00597391-1	2/7/2020	2:02:10 PM	KIN-22	ECE	TV	OCO	3	1,108
P00597214-1	2/7/2020	2:02:12 PM	PGA-13	ECE	TV	OCO	1	384
P00597238-1	2/7/2020	2:11:30 PM	VAS-13	EBL	TV	OCO	18	2,291
P00597241-1	2/7/2020	2:26:05 PM	COT-15	EBD	TV	OCO	6	383
P00597244-1	2/7/2020	2:36:55 PM	EGT-15	EBE	FI	OMP	1	99
P00597254-1	2/7/2020	3:01:02 PM	EPO-15	ECD	TV	OCO	29	9,228
P00597260-1	2/7/2020	3:19:45 PM	DUV-16	EBD	EF	USV	1	485
P00597349-1	2/7/2020	3:21:00 PM	TLN-0136	ECE	TV	OCO	3,321	67,250
P00597376-1	2/7/2020	3:21:00 PM	TLN-0136	ECE	TV	OCO	2,354	249,366
P00597351-1	2/7/2020	3:34:08 PM	EPO-13	ECD	TV	OCO	1	887
P00597370-1	2/7/2020	3:43:05 PM	MAX-13	EAD	EF	OCO	16	6,475
P00597349-1	2/7/2020	3:47:52 PM	TLN-0136	ECE	TV	OCO	454	51,012
P00597382-1	2/7/2020	3:57:35 PM	PMA-13	ECE	TV	OCO	16	9,733
P00597258-1	2/7/2020	4:08:14 PM	MHT-13	EBJ	EF	OPO	8	4,669
P00597394-1	2/7/2020	4:20:52 PM	KIN-22	ECE	TV	OSV	2	332
P00597395-1	2/7/2020	4:20:52 PM	KIN-21	ECE	TV	OCO	29	42,828
P00597396-1	2/7/2020	4:22:02 PM	ORC-15	EBJ	TV	OCO	3	571
P00597398-1	2/7/2020	4:26:25 PM	PIN-23	EBD	EF	USV	1	127
P00597401-1	2/7/2020	4:32:54 PM	HAM-15	EAC	EF	OCO	661	403,000
P00597431-1	2/7/2020	5:00:54 PM	BRS-13	EAC	TV	OCO	339	33,798
P00597446-1	2/7/2020	5:15:10 PM	SIL-13	ECE	TV	OCO	3	1,238
P00597447-1	2/7/2020	5:16:14 PM	LGY-12	EAD	EF	OPO	2	1,254
P00597532-1	2/7/2020	5:22:57 PM	PGA-13	ECE	TV	OCO	100	8,862
P00598116-1	2/7/2020	5:23:31 PM	BRS-13	EAC	TV	OCO	10	14,351
P00597454-1	2/7/2020	5:23:55 PM	GBK-13	EAD	TV	OCO	64	17,962

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00597469-1	2/7/2020	5:29:18 PM	PGA-12	ECE	TV	OCO	9	5,706
P00597472-1	2/7/2020	5:33:12 PM	SIL-17	ECE	TV	OCO	565	16,724
P00597478-1	2/7/2020	5:40:47 PM	PET-13	EAC	TV	OCO	151	191,493
P00597479-1	2/7/2020	5:41:24 PM	FLD-12	EAD	EF	OTR	4	4,339
P00597486-1	2/7/2020	5:45:58 PM	MCK-15	EAA	TV	OFU	67	22,401
P00597485-1	2/7/2020	5:46:42 PM	RPT-15	ECD	TV	OCO	16	11,445
P00597488-1	2/7/2020	5:53:24 PM	SLA-16	EAA	TV	OFU	7	6,587
P00597492-1	2/7/2020	5:56:38 PM	SCH-13	EAA	EF	OCO	1,297	119,476
P00597502-1	2/7/2020	5:58:19 PM	SLA-16	EAA	TV	OCO	16	2,264
P00597506-1	2/7/2020	5:58:37 PM	ALG-15	EAA	TV	OCO	15	9,582
P00597682-1	2/7/2020	5:59:15 PM	ALG-15	EAA	TV	OCO	246	97,022
P00597518-1	2/7/2020	5:59:59 PM	BRI-15	EAA	TV	OCO	11	3,076
P00597519-1	2/7/2020	6:00:30 PM	SCH-13	EAA	TV	OCO	17	2,125
P00597520-1	2/7/2020	6:01:25 PM	HAN-16	EAA	EF	OCO	5	2,428
P00597525-1	2/7/2020	6:03:26 PM	RIT-16	EAC	TV	OCO	59	13,787
P00597583-1	2/7/2020	6:05:00 PM	TLN-0001	EAA	TV	OCO	1,953	28,547
P00597582-1	2/7/2020	6:05:00 PM	TLN-0003	EAA	TV	OCO	1,094	19,109
P00597580-1	2/7/2020	6:05:00 PM	TLN-0002	EAA	TV	OCO	2,417	34,926
P00597531-1	2/7/2020	6:05:30 PM	NLM-16	EAC	TV	OCO	18	6,171
P00597534-1	2/7/2020	6:06:21 PM	ALG-12	EAC	TV	OSV	1	405
P00597535-1	2/7/2020	6:06:50 PM	NLM-13	EAC	TV	OCO	-	7,006
P00597553-1	2/7/2020	6:09:39 PM	NLM-15	EAC	TV	OCO	178	142,898
P00597543-1	2/7/2020	6:09:53 PM	ROC-17	ECC	TV	OCO	37	48,867
P00597544-1	2/7/2020	6:10:19 PM	SLA-16	EAA	TV	OCO	121	22,400
P00597545-1	2/7/2020	6:10:28 PM	ELD-25	ECC	TV	OFU	20	21,367
P00597548-1	2/7/2020	6:11:03 PM	PLG-13	ECC	TV	OCO	19	20,774
P00597550-1	2/7/2020	6:11:14 PM	LYN-14	EAA	TV	OSV	1	521
P00597555-1	2/7/2020	6:12:44 PM	WOL-25	ECC	EF	OCO	698	80,998
P00597557-1	2/7/2020	6:13:02 PM	FNW-17	ECD	TV	OCO	197	79,000
P00597581-1	2/7/2020	6:14:25 PM	HAM-13	EAC	TV	OCO	117	20,713
P00597575-1	2/7/2020	6:14:42 PM	AIR-22	ECC	TV	OFU	49	29,402
P00597578-1	2/7/2020	6:15:18 PM	FNW-16	ECD	TV	OCO	153	78,024
P00597596-1	2/7/2020	6:19:16 PM	PLG-13	ECC	TV	OCO	47	16,074
P00597597-1	2/7/2020	6:19:30 PM	FRA-12	ECD	TV	OCO	875	223,729
P00597599-1	2/7/2020	6:19:38 PM	FRA-15	ECD	TV	OCO	344	121,521
P00597605-1	2/7/2020	6:20:10 PM	FRA-12	ECD	TV	OCO	33	13,165
P00597638-1	2/7/2020	6:21:22 PM	AIR-26	ECC	TV	OCO	638	85,398
P00597626-1	2/7/2020	6:21:26 PM	CHA-13	ECC	TV	OCO	2	1,785
P00597628-1	2/7/2020	6:21:29 PM	PLG-13	ECC	TV	OCO	582	104,517
P00597715-1	2/7/2020	6:23:36 PM	VAS-13	EBL	TV	OUP	1,116	18,222
P00597662-1	2/7/2020	6:26:12 PM	PAT-15	ECC	TV	OCO	187	14,592
P00597675-1	2/7/2020	6:29:01 PM	VAS-23	EBL	TV	OPO	30	39,965

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00597680-1	2/7/2020	6:30:40 PM	GLA-12	EAA	TV	OCO	80	40,300
P00597686-1	2/7/2020	6:32:50 PM	FRG-24	ECC	TV	OFU	7	3,319
P00597806-1	2/7/2020	6:32:56 PM	VAS-23	EBL	EF	OCO	129	91,719
P00597699-1	2/7/2020	6:33:38 PM	GRV-15	ECA	TV	OAR	2,359	198,470
P00597690-1	2/7/2020	6:34:22 PM	LUH-14	ECC	TV	OCO	45	38,015
P00597717-1	2/7/2020	6:35:30 PM	VAS-23	EBL	TV	OCO	269	192,810
P00597713-1	2/7/2020	6:39:06 PM	NUG-25	EAA	TV	OCO	7	697
P00597716-1	2/7/2020	6:40:34 PM	ROC-26	ECC	TV	OCO	10	10,545
P00597718-1	2/7/2020	6:41:09 PM	NNO-15	EBJ	TV	OCO	446	53,640
P00597726-1	2/7/2020	6:41:18 PM	MSI-24	EBF	TV	OCO	2,642	638,822
P00597722-1	2/7/2020	6:42:07 PM	NUG-26	EAA	TV	OCO	8	3,036
P00597731-1	2/7/2020	6:43:32 PM	ELD-25	ECC	TV	OCO	45	53,143
P00597735-1	2/7/2020	6:44:10 PM	NLM-13	EAC	TV	OCO	53	59,129
P00597742-1	2/7/2020	6:46:30 PM	MHT-15	EBJ	TV	OTF	3	2,291
P00597748-1	2/7/2020	6:47:16 PM	EDG-12	ECA	TV	OCO	23	17,296
P00598622-1	2/7/2020	6:47:20 PM	EPO-13	ECD	TV	OSV	1	554
P00597755-1	2/7/2020	6:48:05 PM	PLG-13	ECC	TV	OCO	10	7,481
P00597757-1	2/7/2020	6:48:13 PM	RAI-13	ECC	TV	OCO	19	2,568
P00597777-1	2/7/2020	6:48:29 PM	STW-15	ECA	TV	OCO	1,688	227,824
P00597771-1	2/7/2020	6:48:51 PM	PHA-17	EBE	OD	OCO	121	41,055
P00597763-1	2/7/2020	6:49:13 PM	WOL-23	ECC	TV	OCO	70	31,129
P00597766-1	2/7/2020	6:49:23 PM	MHT-13	EBJ	TV	OCO	5	6,360
P00598454-1	2/7/2020	6:50:11 PM	EGT-28	EBE	TV	OCO	101	42,637
P00597803-1	2/7/2020	6:50:14 PM	FRU-25	ECA	TV	OCO	1,498	264,457
P00597781-1	2/7/2020	6:50:23 PM	LMC-25	EBE	TV	OCO	27	34,420
P00597793-1	2/7/2020	6:51:37 PM	GRV-16	ECA	TV	OTF	4	1,715
P00597805-1	2/7/2020	6:52:23 PM	SHA-15	ECA	TV	OCO	7	3,922
P00597760-1	2/7/2020	6:52:24 PM	HOL-12	ECA	TV	OCO	4	1,904
P00597807-1	2/7/2020	6:52:43 PM	PHA-17	EBE	TV	OFU	124	67,440
P00597808-1	2/7/2020	6:52:54 PM	SPA-16	ECA	TV	OCO	5	5,076
P00597863-1	2/7/2020	6:53:50 PM	LYO-15	EBJ	TV	OPO	1,216	436,954
P00597827-1	2/7/2020	6:53:55 PM	COT-15	EBD	TV	OCO	36	20,164
P00597831-1	2/7/2020	6:54:14 PM	LUH-14	ECC	TV	OCO	1	563
P00597872-1	2/7/2020	6:54:20 PM	PLA-21	EBD	TV	OCO	968	200,521
P00597838-1	2/7/2020	6:54:28 PM	KNT-37	EBJ	TV	OSV	1	826
P00597879-1	2/7/2020	6:54:35 PM	PIP-25	EBI	TV	OCO	2,454	280,001
P00597843-1	2/7/2020	6:54:36 PM	LON-25	ECC	ND	OCO	2	2,246
P00597850-1	2/7/2020	6:54:49 PM	SMR-23	ECA	TV	OCO	90	32,330
P00597854-1	2/7/2020	6:54:57 PM	LON-23	ECC	TV	OCO	9	11,377
P00598492-1	2/7/2020	6:55:50 PM	GAR-12	ECA	ND	OCO	11	7,844
P00597878-1	2/7/2020	6:56:13 PM	MHT-13	EBJ	TV	OCO	43	3,631
P00597881-1	2/7/2020	6:56:20 PM	LON-23	ECC	TV	OFU	87	14,422

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00598480-1	2/7/2020	6:56:59 PM	LYO-15	EBJ	TV	OFU	22	5,835
P00597910-1	2/7/2020	6:57:10 PM	LTA-17	ECA	TV	OCO	1,176	253,154
P00597919-1	2/7/2020	6:57:25 PM	FCR-12	EBI	UN	OCO	4,962	398,988
P00597893-1	2/7/2020	6:57:37 PM	PIK-21	EBF	TV	OCO	19	19,224
P00597922-1	2/7/2020	6:57:45 PM	MIR-26	EBF	TV	OCO	1	513
P00597903-1	2/7/2020	6:58:18 PM	HOB-15	EBI	TV	UPT	1	1,099
P00597904-1	2/7/2020	6:58:27 PM	FNW-17	ECD	TV	OCO	11	6,314
P00597918-1	2/7/2020	6:59:15 PM	RAI-11	ECC	TV	OFU	116	43,295
P00597921-1	2/7/2020	6:59:28 PM	WAB-13	EBI	TV	OIN	9	6,816
P00597944-1	2/7/2020	7:00:52 PM	BDI-13	EBI	TV	OCO	357	154,409
P00597946-1	2/7/2020	7:01:29 PM	PIK-21	EBF	TV	OCO	5	2,670
P00597951-1	2/7/2020	7:02:15 PM	LWS-13	EBJ	TV	OCO	5	4,392
P00597955-1	2/7/2020	7:02:42 PM	BRS-13	EAC	TV	OFU	31	44,400
P00597963-1	2/7/2020	7:03:36 PM	ORT-26	ECA	TV	OCO	7	4,711
P00597975-1	2/7/2020	7:04:28 PM	LWS-12	EBJ	TV	OTF	2	1,833
P00597978-1	2/7/2020	7:04:46 PM	PLA-23	EBD	TV	OFU	4	1,506
P00597982-1	2/7/2020	7:05:30 PM	PIP-22	EBI	TV	OCO	6	5,824
P00597988-1	2/7/2020	7:05:54 PM	BON-17	ECA	ND	OCO	4	4,107
P00597989-1	2/7/2020	7:05:56 PM	SOO-23	EBI	TV	OSV	3	2,544
P00598005-1	2/7/2020	7:06:06 PM	RHO-17	ECA	TV	OCO	558	185,212
P00597993-1	2/7/2020	7:06:11 PM	OSC-22	EBI	TV	OHR	653	348,952
P00597996-1	2/7/2020	7:06:36 PM	ORT-26	ECA	TV	OCO	13	11,850
P00598006-1	2/7/2020	7:07:24 PM	SNQ-17	EBF	TV	OFU	155	11,219
P00598010-1	2/7/2020	7:07:50 PM	WOO-23	ECA	TV	OCO	5	4,540
P00598019-1	2/7/2020	7:08:30 PM	WLK-13	ECA	TV	OCO	24	20,816
P00598090-1	2/7/2020	7:14:15 PM	TOL-15	EBD	TV	OFU	134	41,871
P00598097-1	2/7/2020	7:15:11 PM	VAS-12	EBL	TV	OCO	16	2,867
P00598102-1	2/7/2020	7:16:20 PM	EGT-16	EBE	TV	OTF	8	4,716
P00598103-1	2/7/2020	7:16:28 PM	BUC-16	ECA	TV	OCO	6	4,296
P00598179-1	2/7/2020	7:17:33 PM	EGT-27	EBE	TV	OSV	32	25,298
P00598114-1	2/7/2020	7:17:41 PM	BUC-26	ECA	TV	OCO	15	4,318
P00598123-1	2/7/2020	7:19:47 PM	PGA-13	ECE	EF	OFU	2	1,748
P00598129-1	2/7/2020	7:22:17 PM	WLK-15	ECA	TV	OCO	24	33,132
P00598141-1	2/7/2020	7:26:37 PM	MOT-17	ECC	UN	OCO	604	38,676
P00598142-1	2/7/2020	7:26:55 PM	LAT-17	EBJ	TV	USC	6	5,297
P00598162-1	2/7/2020	7:30:39 PM	EGT-11	EBE	TV	OFU	5	3,063
P00598165-1	2/7/2020	7:31:59 PM	PGA-13	ECE	TV	OTF	4	3,454
P00598172-1	2/7/2020	7:33:38 PM	EGT-27	EBE	TV	OFU	22	18,437
P00597453-1	2/7/2020	7:35:57 PM	BRS-13	EAC	TV	OFC	5	5,295
P00598236-1	2/7/2020	7:40:00 PM	GWR-16	EBI	UN	OCO	890	2,526,979
P00591881-1	2/7/2020	7:40:28 PM	FAL-15	EBF	SO		33	5,994
P00598352-1	2/7/2020	7:52:32 PM	LON-17	ECC	TV	OCO	8	10,214

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00598222-1	2/7/2020	7:53:27 PM	KAP-16	ECA	TV	OCO	2	1,898
P00598224-1	2/7/2020	7:54:33 PM	PAT-15	ECC	TV	OCO	278	86,371
P00598233-1	2/7/2020	7:58:33 PM	KAP-16	ECA	TV	OPO	3	3,459
P00598235-1	2/7/2020	7:58:54 PM	HEM-15	ECA	TV	OSV	4	3,805
P00598237-1	2/7/2020	8:00:11 PM	SOM-16	EBE	TV	OSV	1	419
P00598239-1	2/7/2020	8:00:23 PM	KCR-16	EBJ	TV	OCO	54	14,662
P00598240-1	2/7/2020	8:02:18 PM	GRV-15	ECA	TV	OCO	83	7,142
P00598258-1	2/7/2020	8:05:00 PM	TLN-0012	EBD	TV	OCO	755	789,843
P00598244-1	2/7/2020	8:05:18 PM	ING-13	EBD	TV	OTF	1	604
P00597764-1	2/7/2020	8:09:25 PM	LMC-27	EBE	EF	OFU	374	116,433
P00598262-1	2/7/2020	8:13:19 PM	BRS-24	EAC	EF	OFC	2	354
P00598267-1	2/7/2020	8:16:36 PM	NUG-25	EAA	TV	OCO	6	4,580
P00598270-1	2/7/2020	8:20:05 PM	LHL-22	EBE	TV	OSV	4	2,539
P00598274-1	2/7/2020	8:22:06 PM	LMD-16	EBJ	TV	OCO	13	6,572
P00598276-1	2/7/2020	8:22:40 PM	EGT-27	EBE	TV	OSV	5	5,246
P00598278-1	2/7/2020	8:23:31 PM	KAP-16	ECA	TV	OSV	1	971
P00598280-1	2/7/2020	8:23:56 PM	CUM-15	EBI	UN	OCO	2	1,427
P00598415-1	2/7/2020	8:33:16 PM	HAZ-13	EBE	TV	OCO	36	13,060
P00598409-1	2/7/2020	8:36:11 PM	HAZ-13	EBE	TV	OCO	303	23,074
P00598308-1	2/7/2020	8:36:11 PM	MOT-14	ECC	ND	OCO	1	975
P00598317-1	2/7/2020	8:42:01 PM	PET-13	EAC	UN	OCO	55	2,285
P00598411-1	2/7/2020	8:43:12 PM	HAZ-13	EBE	TV	OSV	5	2,881
P00598322-1	2/7/2020	8:45:50 PM	EGT-16	EBE	TV	OSV	1	579
P00598323-1	2/7/2020	8:45:50 PM	PMA-12	ECE	TV	OCO	29	5,428
P00598331-1	2/7/2020	8:47:57 PM	PMA-15	ECE	TV	OCO	2	775
P00598451-1	2/7/2020	9:03:11 PM	PMA-16	ECE	TV	OCO	37	5,387
P00597420-1	2/7/2020	9:06:44 PM	MIL-22	ECE	TV	OTR	1	850
P00598364-1	2/7/2020	9:07:28 PM	MLK-13	EBE	EF	OSV	3	1,869
P00598366-1	2/7/2020	9:08:07 PM	PIN-26	EBD	TV	OSV	1	304
P00598359-1	2/7/2020	9:11:32 PM	PMA-16	ECE	TV	OTF	5	691
P00598388-1	2/7/2020	9:13:13 PM	MIR-17	EBF	TV	OFU	35	13,506
P00598382-1	2/7/2020	9:16:04 PM	WLS-16	EAC	UN	OCO	34	2,937
P00598687-1	2/7/2020	9:33:47 PM	PRI-13	ECC	TV	OCO	37	25,207
P00598414-1	2/7/2020	9:41:23 PM	PRI-23	ECC	TV	OCO	17	11,618
P00598418-1	2/7/2020	9:46:22 PM	HOL-13	ECA	TV	OSV	3	1,194
P00598425-1	2/7/2020	9:49:22 PM	WIN-13	ECE	TV	UTC	1	261
P00598438-1	2/7/2020	10:01:54 PM	EDG-15	ECA	TV	OSV	1	714
P00598448-1	2/7/2020	10:09:03 PM	LYN-26	EAA	UN	OFU	2	153
P00598002-1	2/7/2020	10:12:06 PM	DUV-15	EBD	TV	OFU	24	13,253
P00598458-1	2/7/2020	10:19:39 PM	VAS-12	EBL	TV	OCO	2	417
P00598463-1	2/7/2020	10:25:00 PM	PLA-21	EBD	TV	OFU	203	69,533
P00598477-1	2/7/2020	10:41:33 PM	BIG-12	EAC	TV	OCO	9	1,247

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00598485-1	2/7/2020	10:55:35 PM	TAN-13	ECC	TV	OCO	6	5,978
P00598494-1	2/7/2020	11:04:43 PM	FRA-13	ECD	TV	OCO	36	19,090
P00598501-1	2/7/2020	11:28:38 PM	LMC-27	EBE	TV	OFU	1	376
P00598508-1	2/7/2020	11:32:43 PM	LYO-15	EBJ	TV	OCO	17	10,802
P00598509-1	2/7/2020	11:33:45 PM	VAS-23	EBL	TV	OCO	1	539
P00597441-1	2/7/2020	11:37:20 PM	SKE-22	ECE	TV	OCO	13	330
P00598512-1	2/7/2020	11:38:33 PM	MIL-17	ECE	TV	OTF	4	1,982
P00598530-1	2/7/2020	11:47:18 PM	FAL-15	EBF	TV	OFU	85	19,604
P00598519-1	2/7/2020	11:49:28 PM	FAL-15	EBF	TV	OCO	22	1,652

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

National Weather Service



Thursday Afternoon Briefing

National Weather Service - Seattle

Issued: 2:44 PM PT Friday, February 7th, 2020

Next Update: As Needed/Requested

Point of Contact: NWS Operations (24/7) - 206-526-6095

Moderate Impacts Possible

This includes common events that could have moderate impacts on commerce. Precautions advised to protect lives and property.

CHANGES SINCE PREVIOUS BRIEFING

- Increased snow totals for the Cascades with incoming system tonight-Saturday morning.
- The extent of the strong winds extended further across central and southern Puget Sound.
- Large seas 18 to 23 feet expected along the Pacific coast.

WEATHER IMPACTS

Western Washington	
HIGH Confidence	<ul style="list-style-type: none"> • River Flooding: Flooding will continue, but diminish, through the weekend and into next week. • Landslide Threat: Elevated threat will slowly diminish after Saturday morning. • Heavy Mountain Snow: Will create hazardous travel conditions for all passes due to slick, snow covered roads. • Avalanche Danger: Very dangerous avalanche conditions into tonight for areas near Stevens Pass. Dangerous avalanche conditions will persist into the weekend. • High Seas Will create dangerous surfing conditions and localized beach erosion.
MODERATE Confidence	<ul style="list-style-type: none"> • Severity of Flood Impacts: As some rivers will crest near magnitude thresholds. • Strong Winds: May cause tree damage and power outages Friday evening into Saturday.
LOW Confidence	

FORECAST DETAILS

Western Washington	
FRI EVENING - SAT	
<ul style="list-style-type: none"> • Cooler system bringing additional rain to the lowlands. Small headwater river locations could see brief rises this evening. • Heavy mountain snow with new snow accumulations of 10-20 inches in the Cascades. • Snow levels lowering rapidly to 2,000-3,000 feet by Saturday morning. • Elevated threat of landslides and avalanche danger continues. • Many rivers to crest and recede, but a few larger and downstream locations will continue to rise. Flooding will continue. • Southwesterly to westerly winds will increase tonight, with gusts up to 50 mph possible along the immediate coast and Admiralty Inlet area. Gusts 35-45 mph primarily for areas from Tacoma northward to Snohomish County. See map for exact locations. • Seas build to 18-23 feet. 	
SUN - MON	
<ul style="list-style-type: none"> • Dry weather. • Rivers continue to crest and recede. • Landslide threat diminishing. 	

See weather.gov/seattle for the latest forecast details for your location.

USA – Storms and Floods Prompt Emergency Declarations in Washington and Oregon

8 FEBRUARY, 2020 BY [FLOODLIST NEWS IN NEWS, USA](#)

Storms and heavy rain in the North West of USA have prompted the governors of **Washington** and **Oregon** states to declare emergencies. Flooding has closed roads and led to evacuations in both states. Residents trapped in homes in remote areas of Umatilla County were evacuated by Oregon Army National Guard helicopter.



Flooding closed the Interstate 84 in Oregon. Some vehicles were left stranded. Photo: Oregon State Police

Washington Governor Jay Inslee issued emergency proclamation for 20 counties due to flooding and winter weather.

“The effects of this severe winter storm event continue to impact the life, health and property of individuals in this state, as well as the property and infrastructure of Washington state, and is a public disaster that affects the life, health, property or the public peace,” Inslee said in the proclamation.

The Washington Military Department’s Emergency Management Division continues to monitor and coordinate response activities. The proclamation directs state agencies to utilize state resources to do everything reasonably possible to assist affected communities. It also allows the state to apply for federal Department of Transportation funds to help permanently repair roadways. Road damage caused by recent snow is estimated at more than \$3 million.

Severe flooding was reported in the Orting areas after the Puyallup River overflowed.

Residents in the Nisqually Delta area of Thurston County were urged to evacuate after Tacoma Power advised they will be increasing the water flow from the LaGrande Dam.

Evacuation orders were also issued for parts of Walla Walla County.

NWS Seattle issued a flood warning for the Snohomish River near Monroe. As of 08 February the river stood at 16.28 feet, where major flood stage is 17 feet.

Some areas recorded more than 6 inches / 150mm of rain in 72 hours to 07 February.

The counties included in the emergency proclamation are: Clallam, Clark, Cowlitz, Grays Harbor, Island, Jefferson, King, Kitsap, Lewis, Mason, Pacific, Pierce, San Juan, Skagit, Skamania, Snohomish, Thurston, Wahkiakum, Whatcom and Walla Walla Counties.

Earlier this week authorities closed a border crossing with Canada after flooding left roads impassable in areas around the town of Sumas, Washington.