

2020 Qualifying Events Report

December 21, 2020 Event

Filed on

March 19, 2021



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Event Description

Event Date and Time

Start: 12/21/2020, 16:30

End: 12/23/2020, 00:00

Event Type

Wind, Snow

Service Areas Significantly Affected

Thurston, Skagit, Whatcom and Island

Number of Customers Affected

System wide, approximately 44,864 customers were without power during the course of this event.

Summary of System Impacts

Total Number of Outages for the Event	195
Transmission Lines Affected	1
Impacted Substations	5

Mobilization Summary

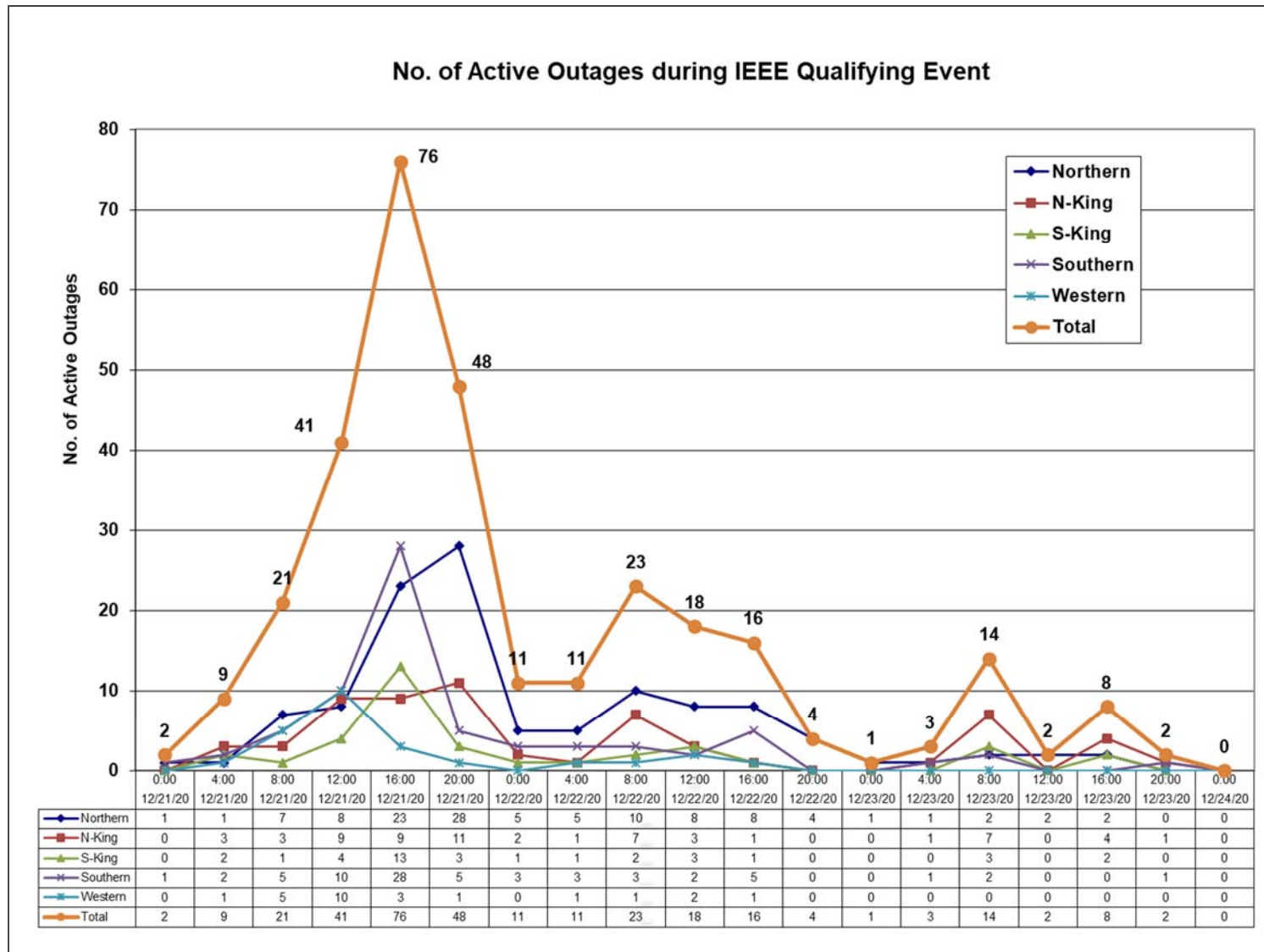
Operating Bases Placed In Emergency Status

Base	Date Opened	Time Opened	Date Closed	Time Closed
Whatcom/Skagit	12/22/2020	0:00	12/22/2020	13:00
Island	12/22/2020	0:00	12/22/2020	13:00
North King	N/A			
South King	N/A			
Pierce	N/A			
Thurston	12/21/2020	20:00	12/22/2020	13:00
Kitsap	N/A			
Vashon Island	N/A			
Kittitas	N/A			

Emergency Coordination Center (ECC)

	Date Opened	Time Opened	Date Closed	Time Closed
ECC	N/A			

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

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)
12/21/2020 16:30 – 12/23/2020 00:00	7,018,290	1,183,742	5.93

¹ IEEE: Institute of Electrical and Electronics Engineers

² SAIDI: System Average Interruption Duration Index

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	\$ 5,411,647*
1/31/2020	22.22	\$ 2,146,197*
2/7/2020	9.82	\$ 1,674,323
2/23/2020	8.42	\$ 635,270*
9/7/2020	73.21	\$ 5,673,450*
10/13/2020	44.02	\$ 5,289,793*
12/21/2020	7.18	\$524,402

* Revised

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 Storm 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	\$1,749,128	\$0	\$5,411,647*	\$5,411,647*	\$7,160,775*
1/31/2020	\$0	\$613,478*	\$0	\$2,146,197*	\$2,146,197*	\$2,759,675*
2/7/2020	\$0	\$441,416	\$0	\$1,674,323	\$1,674,323	\$2,115,739
2/23/2020	\$0	\$367,129	\$0	\$635,270*	\$635,270*	\$1,002,399*
9/7/2020	\$5,540,887*	\$1,177,405*	\$0	\$132,563*	\$132,563*	\$6,845,855*
10/13/2020	\$5,289,793*	\$1,158,554*	\$0	\$0	\$0	\$6,448,347*
12/20/2020	\$524,402	\$129,705	\$0	\$0	\$0	\$654,107

* Revised

³ O&M: Operations and Maintenance

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
\$11,355,082	\$5,636,814	\$0	\$10,000,000	\$10,000,000	\$26,991,896

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						
December 21, 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	\$0	\$0	\$0	\$5,158	\$5,158	\$5,158
OT	\$0	\$0	\$0	\$47,952	\$47,952	\$47,952
Total Labor	\$0	\$0	\$0	\$53,110	\$53,110	\$53,110
Labor OH	\$0	\$28,769	\$0	\$0	\$0	\$28,769
Materials	\$0	\$6,829	\$0	\$15,782	\$15,782	\$22,611
Contractors	\$0	\$93,605	\$0	\$419,943	\$419,943	\$513,548
Other Direct Charge	\$0	\$0	\$0	\$1,075	\$1,075	\$1,075
Fleet	\$0	\$0	\$0	\$0	\$0	\$0
Other Assessment	\$0	\$502	\$0	\$34,492	\$34,492	\$34,994
Subtotal	\$0	\$129,705	\$0	\$524,402	\$524,402	\$654,107
Deferred Expense:	\$524,402	\$0	\$0	-\$524,402	-\$524,402	\$0
	\$524,402	\$129,705	\$0	\$0	\$0	\$654,107

ST: Standard time

OT: Over time

OH: Overhead

Detailed List of Outages – 10/13/2020, First TMED-Exceeding Day

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00667852-1	12/21/2020	3:40:07 AM	FRG-22	ECC	TV	OCO	75	26,983
P00667854-1	12/21/2020	3:53:13 AM	RIT-16	EAC	EF	OFU	35	3,857
P00667856-1	12/21/2020	5:19:47 AM	VAS-12	EBL	TV	OHR	283	21,763
P00667864-1	12/21/2020	5:45:39 AM	FWD-17	EBJ	EF	OTF	4	264
P00667872-1	12/21/2020	6:58:14 AM	PGA-13	ECE	TV	OCO	26	2,961
P00667873-1	12/21/2020	7:17:47 AM	ING-13	EBD	EF	USC	1	727
P00667875-1	12/21/2020	7:25:21 AM	LYN-14	EAA	EF	OTR	3	1,172
P00667879-1	12/21/2020	7:32:19 AM	LON-17	ECC	TV	OCO	53	15,497
P00667890-1	12/21/2020	7:36:00 AM	KAP-13	ECA	TV	OPO	8	8,311
P00667930-1	12/21/2020	7:43:10 AM	SHD-18	EBI	TV	OSV	1	13
P00667971-1	12/21/2020	7:50:18 AM	SOM-16	EBE	EF	UPC	3,474	849,861
P00654210-1	12/21/2020	8:22:01 AM	MST-26	EBJ	SO	OSW	8	1,420
P00668045-1	12/21/2020	8:26:45 AM	ALG-12	EAC	AC	OSV	1	112
P00668046-1	12/21/2020	8:30:36 AM	KNM-26	EBD	EF	USV	1	156
P00668050-1	12/21/2020	8:41:26 AM	LON-25	ECC	TV	OSV	1	122
P00668047-1	12/21/2020	8:56:16 AM	SMR-26	ECA	SO	OPO	7	1,897
P00666583-1	12/21/2020	9:14:38 AM	HAM-13	EAC	SO	OSW	6	2,705
P00668061-1	12/21/2020	9:17:23 AM	PIK-21	EBF	TV	OCO	8	2,860
P00664772-1	12/21/2020	10:08:52 AM	BHL-15	ECE	SO	OAR	24	386
P00668079-1	12/21/2020	10:13:29 AM	SCH-13	EAA	EF	OTR	1	76
P00668083-1	12/21/2020	10:27:05 AM	LON-26	ECC	TV	OCO	9	650
P00667871-1	12/21/2020	10:33:41 AM	MIL-17	ECE	SO	OPO	12	2,931
P00668088-1	12/21/2020	10:35:29 AM	MAN-12	ECD	EF	OCO	99	63,783
P00668093-1	12/21/2020	10:39:28 AM	FLD-12	EAD	EF	OFC	1	390
P00668065-1	12/21/2020	10:42:12 AM	AIR-23	ECC	TV	OCN	9	2,026
P00668095-1	12/21/2020	10:50:05 AM	WLS-16	EAC	EF	OIN	15	1,183
P00663908-1	12/21/2020	10:51:50 AM	FCH-16	ECA	SO	UTC	1	240
P00668105-1	12/21/2020	10:59:03 AM	MAN-16	ECD	TV	OCN	138	103,532
P00668098-1	12/21/2020	10:59:07 AM	KIN-25	ECE	SO	UPT	10	179
P00668108-1	12/21/2020	11:06:35 AM	MSI-24	EBF	SO	OPO	3	336
P00668113-1	12/21/2020	11:19:35 AM	SCH-13	EAA	BA	OCO	100	6,855

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00668132-1	12/21/2020	11:50:46 AM	MCK-16	EAA	AC	OSV	1	188
P00668138-1	12/21/2020	12:02:28 PM	PRI-23	ECC	EF	OTR	1	109
P00668139-1	12/21/2020	12:02:50 PM	CED-13	ECA	CP	OPO	12	1,414
P00668141-1	12/21/2020	12:07:07 PM	PLG-13	ECC	TV	OCO	2	149
P00668153-1	12/21/2020	12:20:26 PM	FLD-12	EAD	EF	OCO	62	7,897
P00668154-1	12/21/2020	12:23:37 PM	HEM-13	ECA	TV	OCO	10	3,267
P00668157-1	12/21/2020	12:27:42 PM	BLU-16	ECC	TV	OCO	3	343
P00668149-1	12/21/2020	12:58:07 PM	SST-14	EAA	AC	OTR	1	151
P00668171-1	12/21/2020	12:59:17 PM	MIL-23	ECE	TV	OFU	66	26,047
P00668179-1	12/21/2020	1:01:06 PM	PTR-14	EAA	TV	OCO	183	79,230
P00668192-1	12/21/2020	1:23:50 PM	VAS-12	EBL	EF	OCO	2	43
P00668199-1	12/21/2020	1:28:28 PM	PIP-25	EBI	BA	OTR	54	6,670
P00668206-1	12/21/2020	1:35:24 PM	LON-17	ECC	TV	OCO	11	4,139
P00668210-1	12/21/2020	1:39:27 PM	MTH-15	EBJ	EF	OFU	61	27,235
P00668219-1	12/21/2020	1:58:21 PM	LON-22	ECC	TV	OCO	18	13,599
P00668230-1	12/21/2020	2:08:07 PM	BEL-01	EBJ	LI	FHV	4,254	432,408
P00668237-1	12/21/2020	2:12:18 PM	MIL-23	ECE	TV	OFU	38	19,788
P00668266-1	12/21/2020	2:12:22 PM	PMA-12	ECE	TV	OTR	5	1,764
P00668247-1	12/21/2020	2:14:55 PM	JHO-16	ECC	UN	PMP	1	225
P00668256-1	12/21/2020	2:21:40 PM	MIL-23	ECE	TV	OCO	34	6,746
P00668258-1	12/21/2020	2:21:58 PM	BLU-16	ECC	TV	OCO	34	9,342
P00668270-1	12/21/2020	2:37:56 PM	WLS-15	EAC	TV	OCO	1	62
P00668271-1	12/21/2020	2:38:12 PM	CUS-13	EAA	TV	OCO	3	204
P00668272-1	12/21/2020	2:38:45 PM	POU-16	ECE	TV	OFU	218	107,895
P00668275-1	12/21/2020	2:40:54 PM	GBK-15	EAD	TV	OSV	1	136
P00668286-1	12/21/2020	2:47:30 PM	LOL-22	ECD	TV	SCB	1,607	96,581
P00668291-1	12/21/2020	2:49:21 PM	SKE-23	ECE	TV	OCO	610	115,788
P00668302-1	12/21/2020	2:58:41 PM	HWD-25	EBD	TV	OPO	6	3,113
P00668316-1	12/21/2020	2:59:21 PM	SKI-13	EBD	TV	OCO	111	15,697
P00668317-1	12/21/2020	3:06:27 PM	LON-22	ECC	OD	OTR	2	99
P00668318-1	12/21/2020	3:08:01 PM	AVO-24	EBD	TV	OCO	1	1,075

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00668319-1	12/21/2020	3:08:32 PM	CEK-15	ECE	TV	OCO	43	19,478
P00668264-1	12/21/2020	3:19:35 PM	BCH-15	EAA	TV	OCO	17	6,212
P00668149-2	12/21/2020	3:29:16 PM	SST-14	EAA	AC	OTR	1	213
P00668345-1	12/21/2020	3:31:15 PM	POU-15	ECE	TV	OCO	12	4,175
P00668350-1	12/21/2020	3:34:31 PM	POU-15	ECE	TV	OCO	16	3,762
P00668335-1	12/21/2020	3:48:14 PM	PIK-21	EBF	EF	OCO	112	18,443
P00668363-1	12/21/2020	3:53:35 PM	MAP-15	EBE	TV	OCO	117	65,982
P00668368-1	12/21/2020	3:53:52 PM	HAZ-16	EBE	TV	OCO	2,853	1,201,169
P00668386-1	12/21/2020	3:55:05 PM	LMC-23	EBE	TV	OFC	86	27,999
P00668371-1	12/21/2020	3:55:36 PM	LYO-15	EBJ	TV	OCO	27	18,983
P00668374-1	12/21/2020	3:56:18 PM	LMC-27	EBE	TV	OCO	22	14,770
P00668714-1	12/21/2020	4:04:14 PM	LMC-23	EBE	TV	OTF	3	1,781
P00668387-1	12/21/2020	4:04:16 PM	MIR-13	EBF	TV	OCO	17	22,746
P00668391-1	12/21/2020	4:06:05 PM	SNQ-17	EBF	TV	OCO	155	22,457
P00668399-1	12/21/2020	4:07:34 PM	LYO-12	EBJ	TV	OFU	2	637
P00668402-1	12/21/2020	4:09:24 PM	LWS-16	EBJ	TV	OCO	2	1,585
P00668406-1	12/21/2020	4:13:27 PM	LWS-12	EBJ	TV	OCO	121	12,221
P00668410-1	12/21/2020	4:16:08 PM	PEA-17	EBJ	EF	OSV	8	1,606
P00668417-1	12/21/2020	4:16:24 PM	ROC-16	ECC	TV	OCO	25	6,923
P00668416-1	12/21/2020	4:17:27 PM	BDI-15	EBI	TV	OCO	112	44,550
P00668428-1	12/21/2020	4:22:28 PM	ORT-23	ECA	TV	OCN	16	7,510
P00668308-1	12/21/2020	4:28:32 PM	UHL-25	EBD	TV	OCO	3	565
P00668439-1	12/21/2020	4:29:38 PM	EGT-12	EBE	EF	UOT	17	19,210
P00668464-1	12/21/2020	4:30:00 PM	TLN-0191	ECE	TV	OCO	4,253	516,343
P00668441-1	12/21/2020	4:30:49 PM	BLA-13	EAA	TV	OCO	5	4,072
P00668443-1	12/21/2020	4:31:20 PM	WLK-13	ECA	TV	OCO	73	14,134
P00668522-1	12/21/2020	4:46:17 PM	PAD-15	EAC	EO	OTH	1,968	81,427
P00668521-1	12/21/2020	4:47:23 PM	WOB-23	EAA	TV	OCO	4	3,966
P00668524-1	12/21/2020	4:47:51 PM	BLA-13	EAA	TV	OCO	85	55,778
P00668538-1	12/21/2020	5:03:31 PM	GWR-13	EBI	EF	OFU	11	4,524
P00668340-1	12/21/2020	5:05:15 PM	PMA-12	ECE	TV	OCO	20	29,832

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00668540-1	12/21/2020	5:05:15 PM	HOB-15	EBI	TV	OFU	104	14,728
P00668546-1	12/21/2020	5:12:33 PM	SWA-12	EAD	EF	UTR	29	7,684
P00668552-1	12/21/2020	5:25:20 PM	HOB-16	EBI	TV	OFU	3	1,274
P00668418-1	12/21/2020	5:28:39 PM	SHD-18	EBI	TV	OPO	30	20,179
P00668556-1	12/21/2020	5:30:36 PM	BLA-13	EAA	TV	OFU	16	6,715
P00668557-1	12/21/2020	5:31:35 PM	NBE-13	EBF	TV	OCO	3	1,227
P00668560-1	12/21/2020	5:36:03 PM	RAI-13	ECC	TV	OCO	1,654	30,764
P00668563-1	12/21/2020	5:45:59 PM	DGR-15	ECA	TV	OSV	1	173
P00668567-1	12/21/2020	5:47:48 PM	CUS-13	EAA	TV	OFU	3	1,373
P00668568-1	12/21/2020	5:47:52 PM	KIT-26	EBH	TV	OCN	99	24,688
P00668578-1	12/21/2020	5:58:23 PM	CEK-14	ECE	TV	OCO	24	1,659
P00668593-1	12/21/2020	6:03:45 PM	VIK-25	EAA	TV	SCB	2,132	103,438
P00668584-1	12/21/2020	6:04:11 PM	ORT-26	ECA	EF	OTR	2	504
P00668595-1	12/21/2020	6:06:45 PM	CUS-13	EAA	EF	OTF	1	462
P00668526-1	12/21/2020	6:07:01 PM	BLA-13	EAA	TV	OTR	-	285
P00668603-1	12/21/2020	6:10:32 PM	MIR-13	EBF	TV	OCO	20	10,794
P00668600-1	12/21/2020	6:10:52 PM	BLA-13	EAA	TV	OCO	25	7,919
P00668605-1	12/21/2020	6:13:12 PM	BHS-14	EAA	TV	OFU	13	718
P00668677-1	12/21/2020	6:13:52 PM	GRI-15	ECC	TV	OCO	895	145,176
P00668619-1	12/21/2020	6:14:45 PM	RAI-13	ECC	TV	OCO	138	18,941
P00668620-1	12/21/2020	6:22:37 PM	HAN-13	EAA	TV	OCO	163	67,801
P00668676-1	12/21/2020	6:31:34 PM	GRI-13	ECC	TV	OCO	1,471	149,674
P00668679-1	12/21/2020	6:31:47 PM	GRI-16	ECC	TV	OCO	1,771	193,600
P00668671-1	12/21/2020	6:36:34 PM	VIS-26	EAA	TV	OCO	2	2,056
P00668680-1	12/21/2020	6:39:24 PM	BLA-13	EAA	TV	OCO	96	7,534
P00668687-1	12/21/2020	6:42:14 PM	HEM-13	ECA	EF	OTR	8	862
P00669184-1	12/21/2020	6:49:17 PM	ROC-16	ECC	TV	OCO	11	8,657
P00668706-1	12/21/2020	6:53:14 PM	BLA-13	EAA	TV	OCO	95	8,341
P00668719-1	12/21/2020	6:53:56 PM	HAN-16	EAA	TV	OCO	31	13,762
P00668709-1	12/21/2020	6:54:41 PM	PRI-13	ECC	TV	OCO	34	14,083
P00668716-1	12/21/2020	6:55:34 PM	MOT-14	ECC	TV	OCO	1	368

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00669208-1	12/21/2020	6:56:40 PM	PRI-13	ECC	TV	OCO	8	5,017
P00668724-1	12/21/2020	7:01:06 PM	BAR-17	ECC	EF	OTR	5	4,720
P00669182-1	12/21/2020	7:04:15 PM	ROC-16	ECC	TV	OCO	84	62,215
P00668735-1	12/21/2020	7:06:46 PM	MOT-14	ECC	TV	OCO	324	160,844
P00668740-1	12/21/2020	7:08:58 PM	PRI-13	ECC	TV	OCO	336	194,253
P00668930-1	12/21/2020	7:12:32 PM	ELD-27	ECC	TV	OCO	31	18,239
P00668754-1	12/21/2020	7:18:03 PM	PRI-13	ECC	TV	OCO	234	73,230
P00668757-1	12/21/2020	7:19:50 PM	PRI-13	ECC	TV	OCO	6	7,300
P00668760-1	12/21/2020	7:21:29 PM	VWY-15	EAA	TV	OCO	10	4,686
P00669207-1	12/21/2020	7:24:21 PM	PRI-13	ECC	TV	OCO	2	1,659
P00668765-1	12/21/2020	7:26:14 PM	MOT-14	ECC	TV	OCO	7	1,530
P00668768-1	12/21/2020	7:29:09 PM	MOT-14	ECC	TV	OCO	10	2,157
P00668771-1	12/21/2020	7:32:07 PM	LAU-13	EAA	TV	OTR	1	144
P00668773-1	12/21/2020	7:32:37 PM	NBO-25	EBD	TV	OCO	2	848
P00668774-1	12/21/2020	7:33:25 PM	OSC-23	EBI	EF	OTF	1	169
P00668776-1	12/21/2020	7:34:24 PM	PRI-13	ECC	TV	OCO	58	43,826
P00668779-1	12/21/2020	7:36:29 PM	WLS-16	EAC	UN	OFU	39	9,422
P00668801-1	12/21/2020	7:38:14 PM	FWD-16	EBJ	TV	OCO	2,812	92,100
P00668885-1	12/21/2020	7:41:46 PM	ALG-15	EAC	TV	OCO	21	14,175
P00668903-1	12/21/2020	7:45:55 PM	HWD-26	EBD	TV	OCO	2,174	1,206,229
P00668555-1	12/21/2020	7:46:07 PM	WAB-13	EBI	TV	OFU	12	335
P00668909-1	12/21/2020	7:53:48 PM	NUG-26	EAA	TV	OCO	334	58,567
P00668932-1	12/21/2020	7:56:49 PM	ROC-16	ECC	TV	OCO	22	13,998
P00668926-1	12/21/2020	7:57:31 PM	PRI-23	ECC	TV	OCO	1,005	293,543
P00668925-1	12/21/2020	7:58:04 PM	BLA-13	EAA	UN	OCO	2	1,617
P00668934-1	12/21/2020	8:10:48 PM	KEN-12	EAA	TV	OCO	12	10,961
P00668936-1	12/21/2020	8:13:43 PM	BLA-13	EAA	TV	OCO	96	43,722
P00668942-1	12/21/2020	8:17:54 PM	LYN-24	EAA	TV	OSV	1	767
P00668945-1	12/21/2020	8:21:22 PM	ALG-15	EAA	TV	OCO	58	64,743
P00668949-1	12/21/2020	8:23:11 PM	TOL-15	EBD	TV	OCO	3	513
P00668956-1	12/21/2020	8:24:21 PM	BIG-15	EAC	TV	OCO	61	9,864

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00668955-1	12/21/2020	8:24:28 PM	PLA-21	EBD	UN	OCO	193	34,044
P00668959-1	12/21/2020	8:25:35 PM	NUG-26	EAA	OD	OCO	4	808
P00668961-1	12/21/2020	8:27:02 PM	PLA-21	EBD	TV	OCO	3	389
P00668964-1	12/21/2020	8:27:18 PM	PLA-21	EBD	TV	OCO	5	644
P00668991-1	12/21/2020	8:41:58 PM	SWA-15	EAD	TV	OSV	6	643
P00668995-1	12/21/2020	8:47:59 PM	VIS-26	EAA	TV	OCO	88	37,786
P00668998-1	12/21/2020	8:52:44 PM	SCH-16	EAA	TV	OTF	1	470
P00668999-1	12/21/2020	8:52:58 PM	KEN-12	EAA	TV	OCO	1	719
P00669002-1	12/21/2020	8:57:17 PM	GRI-13	ECC	TV	OCO	27	5,459
P00669004-1	12/21/2020	8:57:45 PM	HOB-15	EBI	EF	OFC	8	2,251
P00669011-1	12/21/2020	9:01:48 PM	BHS-12	EAA	TV	OCO	640	15,861
P00669014-1	12/21/2020	9:04:47 PM	VIS-26	EAA	TV	OSV	1	37
P00669022-1	12/21/2020	9:16:01 PM	BRI-15	EAA	TV	OCO	22	6,525
P00669024-1	12/21/2020	9:16:26 PM	GRI-15	ECC	TV	OCO	5	1,769
P00669027-1	12/21/2020	9:20:17 PM	WOB-25	EAA	TV	OCO	32	2,989
P00669029-1	12/21/2020	9:26:50 PM	VWY-13	EAA	TV	OCO	44	9,174
P00668962-1	12/21/2020	9:29:48 PM	WAU-25	EBJ	EF	OTH	13	770
P00669031-1	12/21/2020	9:32:33 PM	MVW-13	EBJ	EF	OTF	4	554
P00669032-1	12/21/2020	9:34:56 PM	HAZ-16	EBE	EF	UPC	96	2,053
P00669041-1	12/21/2020	9:38:47 PM	LAU-12	EAA	TV	OCO	651	27,656
P00669044-1	12/21/2020	9:42:51 PM	SOM-16	EBE	EF	UPC	3,449	411,007
P00669106-1	12/21/2020	9:46:56 PM	MOT-14	ECC	TV	OCO	9	3,460
P00669120-1	12/21/2020	10:09:36 PM	NUG-26	EAA	TV	OCO	16	6,389
P00669124-1	12/21/2020	10:12:26 PM	SKE-23	ECE	TV	OCO	8	1,051
P00669127-1	12/21/2020	10:14:57 PM	GRI-13	ECC	TV	OSV	1	308
P00669132-1	12/21/2020	10:19:00 PM	BHS-14	EAA	TV	OSV	1	897
P00669137-1	12/21/2020	10:19:12 PM	BHS-11	EAA	TV	OCO	53	11,619
P00669134-1	12/21/2020	10:20:49 PM	BLA-13	EAA	TV	OCO	62	22,900
P00669144-1	12/21/2020	10:43:55 PM	DUV-15	EBD	TV	OCO	183	15,574
P00669143-1	12/21/2020	10:44:09 PM	LYN-24	EAA	TV	OCO	20	4,931
P00669149-1	12/21/2020	10:47:37 PM	FAC-25	EBE	EF	UTR	27	11,105

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00669150-1	12/21/2020	10:52:44 PM	SCH-15	EAA	TV	OCO	46	23,695
P00669155-1	12/21/2020	10:58:25 PM	BRI-14	EAA	TV	OCO	6	3,066
P00669157-1	12/21/2020	11:00:00 PM	NOB-24	EBE	EF	UHH	7	8,400
P00669158-1	12/21/2020	11:02:28 PM	ALG-15	EAC	EF	OTF	1	603
P00669160-1	12/21/2020	11:04:08 PM	NBE-12	EBF	TV	OCO	86	21,051
P00669163-1	12/21/2020	11:08:34 PM	CUS-16	EAA	TV	OCO	8	2,895
P00668734-2	12/21/2020	11:13:34 PM	ELD-23	ECC	TV	OPO	2	655
P00669119-1	12/21/2020	11:17:58 PM	WOB-23	EAA	TV	OCO	1	17
P00669166-1	12/21/2020	11:36:33 PM	SCH-15	EAA	EF	OCO	555	161,386
P00669169-1	12/21/2020	11:52:22 PM	WOB-23	EAA	TV	OCO	122	35,953
P00669173-1	12/21/2020	11:57:38 PM	TOL-15	EBD	TV	OCO	3	249

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



Another round of wet weather tonight through Monday

National Weather Service - Seattle, WA

Issued: Sun, Dec 20, 2020 - 04:10 PM
 Next Update: 21 Dec 2020
 Point of Contact: NWS Operations (24/7/365) 206-526-6095

KEY POINTS

- The river flooding risk is now lower. An elevated risk for landslides is expected through Monday due to heavy rains.
- A quick burst of moderate to heavy wet snow is possible in the lowlands Monday, potentially yielding poor visibility at times. Minor accumulations possible, particularly along the Hwy 101 corridor north of the Olympics. General accumulations of 3-6" expected in the mountain passes Monday night.
- Drier conditions expected from Tuesday through late week allowing rivers to recede and soils to dry and stabilize.

CHANGES FROM PREVIOUS BRIEFING

- Increased confidence in lower impacts associated with river flooding Monday and Tuesday
- Potential snowfall accumulations added to the forecast
- A period of drier weather is expected from Tue-Thu, allowing rivers to recede and soils to stabilize

WEATHER AND IMPACT OUTLOOK

Sun 12/20	Mon 12/21	Tue 12/22	Wed 12/23	Thu 12/24	Fri 12/25	Sat 12/26
Heavy rain and elevated landslide risk late	Heavy rain and rising rivers, elevated landslide risk, possible lowland snow, mountain pass snow	Elevated rivers and landside risk				

Weather Impact Legend:

None	Low	Medium	High	Extreme
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CONFIDENCE AND DETAILS

Coast and Lowland Locations	
HIGH Confidence	<ul style="list-style-type: none"> ● River Flooding: Rivers are expected to rise through Monday with most falling short of flood stage. Minor impacts possible. Flooding of area roads around the Skokomish River in Mason County expected.
MODERATE Confidence	<ul style="list-style-type: none"> ● Dangerous avalanche conditions in many areas See www.nwac.us for additional details.
LOW Confidence	<ul style="list-style-type: none"> ● Landslides: Brief road closures may result from isolated shallow landslides Sunday and Monday.

	<ul style="list-style-type: none"> ● Lowland Snow: Travel impacts possible due to poor visibility under any snow showers and minor accumulations along parts of Hwy 101. ● Gusty Winds: Southerly winds may cause isolated power outages Monday morning through early afternoon.
Forecast Details	<ul style="list-style-type: none"> ● Tonight: <ul style="list-style-type: none"> ○ The last in a series of frontal systems will bring another round of moderate to heavy rain and relatively high snow levels. ● Monday through Monday Night: <ul style="list-style-type: none"> ○ Moderate to heavy rain will yield the risk for shallow landslides across parts of the area, particularly across the south sound and parts of the central and southern Cascades ○ Southerly winds will gust from 30 to 35 mph at times south of a south to north moving warm front late morning through early afternoon. ○ Snow levels will fall from west to east with the passage of a cold front through the day ○ Some wet snow is possible in the lowlands late Monday morning through Monday night as heavy precipitation immediately behind the cold front drags the snow level down. ○ The focus currently for any potential accumulating snow on grassy surfaces remains along the Cascade Foothills and the northern Olympic Peninsula along the Strait of Juan de Fuca. Slight chance for a rain/snow mix elsewhere around the Puget Sound. ○ If snow does occur, travel impacts due to accumulation are not likely in most areas as roadways remain warm and onshore flow prevents freezing temperatures. Poor visibility will be a factor under any snow bands or showers. See graphic for snow accumulation totals. ○ Snow accumulations of 3-6" expected in the mountain passes Monday Night. Locally higher amounts at Stevens Pass. See graphic. ○ Precipitation will taper off Monday night into Tuesday morning.