

2022 Qualifying Events Report

November 4, 2022 Event

Filed on
February 2, 2023



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Event Description

Event Date and Time

Start: 11/04/2022 18:00

End: 11/09/2022 22:00

Event Type

Wind, atmospheric river, landslide activity, and mountain snow

Service Areas Significantly Affected

All PSE service territory

Number of Customers Affected

System wide, approximately 227,590 customers were without power during the course of this event.

Summary of System Impacts

Total Number of Outages for the Event	1,033
Transmission Line Segments Affected	19
Impacted Substations	10
Distribution Circuits Out	18

Mobilization Summary

Regional Operating Bases and ECC (Emergency Coordination Center) Activations

Region	Date Opened	Time Opened	Date Closed	Time Closed
ECC	11/04/2022	21:30	11/07/2022	09:00
ISLAND	11/04/2022	21:30	11/09/2022	16:00
KITSAP	11/04/2022	21:30	11/06/2022	17:00
KITTITAS	11/04/2022	18:00	11/07/2022	11:30
NORTH KING	11/04/2022	18:00	11/07/2022	11:30
PIERCE	11/04/2022	23:30	11/05/2022	19:00
SKAGIT	11/04/2022	21:30	11/09/2022	16:00
SOUTH KING	11/04/2022	22:30	11/05/2022	21:00
THURSTON	11/04/2022	23:30	11/06/2022	20:00
VASHON	11/04/2022	21:30	11/06/2022	17:00
WHATCOM	11/04/2022	21:30	11/09/2022	16:00

Major Event – Qualification Summary

IEEE1 Standard 1366

IEEE Standard 1366 was established to present a set of terms and definitions that can be used to foster uniformity in the development of electric system service reliability indices, to identify factors that 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 2022: 7.80 Minutes

Qualified Event - Calculation Detail - Current Event

Event Date, Time Range	Total Outages	Total Customer Minutes	Average Customer Count	Event SAIDI (Customer Minutes /Customer Count)
11/04/2022 18:00 - 11/09/2022 22:00	1,033	145,069,742	1,215,220	119.38

YTD Qualified Events - First Day the Daily SAIDI Exceeded T_{MED} of 6.38 Minutes

Date	Daily SAIDI (from midnight to midnight)	Total O&M Costs
1/3/2022	8.29	\$1,635,257*
4/4/2022	28.17	\$3,940,756*
11/4/2022	105.34	\$11,548,348

* Costs updated since last report

¹ IEEE: Institute of Electrical and Electronics Engineers

² SAIDI: System Average Interruption Duration Index

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)

2022 Restoration Costs Detail - By Storm Event (includes all storm events, qualified and non-qualified events)

Event Date	Qualified Events Deferred Account	Capital Costs	O&M Costs Not Deferrable	O&M Costs Deferrable Accumulation	Total O&M Costs	Total Costs
(A)	(B)	(C)	(D)	(E)	(F) = (B)+(D)+(E)	(G)= (F) + (C)
1/3/2022 *	\$0	\$375,288	\$0	\$1,635,257	\$1,635,257	\$2,010,545
2/21/2022 **	\$0	\$401,708	\$153,499	\$0	\$153,499	\$555,208
4/4/2022 *	\$0	\$916,212	\$0	\$3,940,756	\$3,940,756	\$4,856,968
5/18/2022 **	\$0	\$476,955	\$235,544	\$0	\$235,544	\$712,499
11/4/2022	\$7,124,361	\$3,357,000	\$0	\$4,423,986	\$11,548,348	\$14,905,347

* Costs updated since last report

** Non-qualifying event; costs associated with these events are not deferrable

2022 YTD Storm Restoration Cost Summary for All Events

Qualifying Events Deferred Account	Capital Costs	O&M Costs - Not Deferrable	O&M Costs - Deferrable Accumulation	Total O&M Costs	Total Costs
\$7,124,361	\$5,527,163	\$389,043	\$10,000,000	\$17,513,405	\$23,040,567

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						
November 4, 2022- 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	\$1,546		\$48,531	\$48,531	\$50,076
OT	\$0	\$0		\$1,258,279	\$1,258,279	\$1,258,279
Total Labor	\$0	\$1,546	\$0	\$1,306,810	\$1,306,810	\$1,308,355
Labor OH	\$0	\$756,020		\$0	\$0	\$756,020
Materials	\$0	\$283,218		\$535,666	\$535,666	\$818,884
Contractors	\$0	\$2,306,824		\$8,880,475	\$8,880,475	\$11,187,299
Other Direct Charges	\$0	\$101		\$180,284	\$180,284	\$180,384
Fleet	\$0	\$0	\$0	\$0	\$0	\$0
Other Assessments	\$0	\$9,291		\$645,114	\$645,114	\$654,405
Deferred Expenses	\$4,423,986	\$0	\$0	\$0		\$0
	\$4,423,986	\$3,357,000	\$0	\$11,548,348	\$11,548,348	\$14,905,347

ST: Standard time

OT: Over time

OH: Overhead

Detailed List of Outages – First TMED-Exceeding Day

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00842046-1	11/4/2022	12:13:03 AM	CHA-13	ECC	TV	OFU	4	380
P00842052-1	11/4/2022	12:43:51 AM	CLE-11	EBH	ND	OFU	43	4,843
P00842055-1	11/4/2022	1:32:41 AM	ELD-25	ECC	TV	OTF	6	1,381
P00842056-1	11/4/2022	1:43:11 AM	OSC-22	EBI	TV	OCO	13	4,787
P00842058-1	11/4/2022	1:48:41 AM	ETN-13	EBH	TV	OFU	4	9,398
P00842059-1	11/4/2022	1:57:10 AM	ELD-25	ECC	TV	OCO	4	1,579
P00842050-1	11/4/2022	2:01:18 AM	KEN-12	EAA	TV	OCO	4	1,440
P00842060-1	11/4/2022	2:05:44 AM	CLE-14	EBH	EF	OCR	23	10,177
P00842061-1	11/4/2022	2:11:38 AM	CLE-12	EBH	EF	OTR	14	7,313
P00842065-1	11/4/2022	3:24:37 AM	CAS-15	EBH	AC	OSV	1	608
P00842069-1	11/4/2022	4:10:26 AM	GWR-13	EBJ	TV	OCO	11	1,871
P00842073-1	11/4/2022	4:37:13 AM	MWD-13	EBE	TV	OHR	223	97,622
P00842074-1	11/4/2022	4:49:40 AM	ETN-15	EBH	TV	OCO	8	6,028
P00842075-1	11/4/2022	4:50:27 AM	SHD-17	EBJ	EF	OFU	22	20,862
P00842078-1	11/4/2022	5:13:11 AM	SMR-23	ECA	EF	OFU	335	31,641
P00842080-1	11/4/2022	5:17:51 AM	GWR-13	EBJ	TV	OSV	1	340
P00842089-1	11/4/2022	6:11:27 AM	SUM-21	EAC	TV	OSV	35	3,876
P00842091-1	11/4/2022	6:14:28 AM	ETN-13	EBH	TV	OCO	43	15,617
P00842092-1	11/4/2022	6:22:30 AM	SHE-15	ECE	EF	OTF	2	280
P00842093-1	11/4/2022	6:25:23 AM	FRG-24	ECC	TV	OCO	7	3,299
P00842096-1	11/4/2022	6:35:33 AM	PGA-13	ECE	EF	OCO	5	2,349
P00842099-1	11/4/2022	6:45:53 AM	NBE-16	EBD	TV	OTF	6	692
P00842101-1	11/4/2022	6:52:28 AM	SPG-13	ECC	TV	OCO	8	3,084
P00842107-1	11/4/2022	7:08:29 AM	SPG-13	ECC	TV	OCO	27	6,114
P00842108-1	11/4/2022	7:08:35 AM	HYA-13	EBJ	TV	OFU	5	17,612
P00842110-1	11/4/2022	7:08:59 AM	KNT-23	EBJ	TV	OFU	9	1,183
P00842118-1	11/4/2022	7:33:25 AM	KNT-27	EBJ	TV	OCO	1	107
P00842125-1	11/4/2022	8:02:39 AM	WOL-23	ECC	EF	OFC	1	420
P00842126-1	11/4/2022	8:06:37 AM	MSI-24	EBD	TV	OFC	103	49,969
P00842128-1	11/4/2022	8:10:26 AM	ELD-25	ECC	TV	OFU	-	10,018
P00842135-1	11/4/2022	8:14:10 AM	CHI-12	ECD	UN	OFU	64	9,039
P00842144-1	11/4/2022	8:36:27 AM	RIT-19	EAC	TV	OSV	1	110
P00842148-1	11/4/2022	8:50:33 AM	LUH-14	ECC	EF	OPO	1	162
P00842152-1	11/4/2022	8:53:51 AM	GRI-13	ECC	TV	OCO	7	2,647
P00842104-1	11/4/2022	9:02:14 AM	RIT-18	EAC	SO	UTC	5	977
P00842155-1	11/4/2022	9:08:42 AM	WLK-13	ECA	TV	OFU	36	3,157
P00842120-1	11/4/2022	9:11:00 AM	LGY-12	EAD	TV	OPO	1	62
P00842157-1	11/4/2022	9:12:10 AM	LTA-18	ECA	TV	OFU	37	3,077
P00842084-2	11/4/2022	9:15:45 AM	GWR-13	EBJ	TV	OCO	9	337
P00842166-1	11/4/2022	9:23:40 AM	LTA-18	ECA	TV	OFU	2	219
P00842170-1	11/4/2022	9:27:47 AM	CHI-12	ECD	TV	OCO	62	6,284
P00842172-1	11/4/2022	9:30:43 AM	SNQ-17	EBD	TV	OUP	88	9,243
P00842173-1	11/4/2022	9:31:39 AM	GRV-13	ECA	SO	OPO	5	1,462
P00842180-1	11/4/2022	9:34:32 AM	EVE-23	EBE	TV	OFU	3	284

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00842192-1	11/4/2022	9:37:21 AM	SHD-18	EBJ	TV	SCB	1,324	107,813
P00841976-2	11/4/2022	9:53:38 AM	HAN-15	EAA	EF	OFC	5	152
P00842202-1	11/4/2022	9:55:26 AM	NBE-15	EBD	TV	OCO	11	2,146
P00842206-1	11/4/2022	9:59:36 AM	LGY-16	EAD	TV	OSV	1	107
P00842209-1	11/4/2022	10:03:01 AM	ROC-16	ECC	TV	OFU	3	796
P00842210-1	11/4/2022	10:03:24 AM	WOD-15	EBH	TV	OSV	1	590
P00842229-1	11/4/2022	10:04:19 AM	LEA-16	EBJ	TV	SCB	3,004	71,895
P00842212-1	11/4/2022	10:04:48 AM	HKX-13	EAC	TV	OTR	2	831
P00842214-1	11/4/2022	10:05:28 AM	HOB-16	EBI	TV	OTR	1	114
P00842237-1	11/4/2022	10:16:49 AM	MAP-15	EBE	TV	OCO	797	119,778
P00842255-1	11/4/2022	10:21:23 AM	PET-15	EAC	EF	USV	1	215
P00842256-1	11/4/2022	10:22:11 AM	NBE-12	EBD	TV	OTR	1	517
P00842258-1	11/4/2022	10:26:12 AM	FRA-13	ECD	TV	OCO	81	9,580
P00842790-1	11/4/2022	10:41:58 AM	VAS-12	EBL	TV	OFU	55	79,202
P00842280-1	11/4/2022	10:58:48 AM	ROC-25	ECC	TV	OTR	1	130
P00839252-1	11/4/2022	11:07:42 AM	PRE-14	EBE	SO	OPO	6	1,139
P00842292-1	11/4/2022	11:12:02 AM	FNW-16	ECD	TV	OFU	85	7,565
P00842294-1	11/4/2022	11:14:02 AM	SNQ-16	EBD	TV	OHR	111	12,883
P00842303-1	11/4/2022	11:33:08 AM	DUV-12	EBD	TV	OCO	-	2,994
P00842309-1	11/4/2022	11:43:04 AM	HOB-16	EBI	TV	OFU	29	12,587
P00842475-1	11/4/2022	11:52:42 AM	CAS-16	EBH	EF	OJU	243	87,870
P00842343-1	11/4/2022	11:58:00 AM	TLN-0116	EBD	TV	SCB	5,160	207,690
P00842347-1	11/4/2022	11:58:00 AM	TLN-0159	EBD	UN	SCB	1,263	52,288
P00842325-1	11/4/2022	11:59:07 AM	SNQ-16	EBD	TV	OFU	63	5,454
P00842344-1	11/4/2022	12:00:38 PM	ASB-17	EBJ	UN	OTR	7	334
P00842345-1	11/4/2022	12:00:50 PM	CRE-15	EAD	TV	OPO	2	449
P00842368-1	11/4/2022	12:20:00 PM	MSI-24	EBD	TV	OFU	73	9,198
P00842365-1	11/4/2022	12:20:27 PM	PGA-13	ECE	TV	OSV	1	92
P00842492-1	11/4/2022	12:21:12 PM	MSI-24	EBD	TV	OCO	83	31,779
P00842371-1	11/4/2022	12:22:07 PM	PMA-13	ECE	TV	OCO	30	3,194
P00842387-1	11/4/2022	12:33:05 PM	EPO-15	ECD	TV	OCO	6	1,668
P00842390-1	11/4/2022	12:34:46 PM	GAR-16	ECA	TV	OFU	2	234
P00842424-1	11/4/2022	12:38:04 PM	TLN-0157	EBJ	TV	OCO	756	1,947,546
P00842401-1	11/4/2022	12:38:47 PM	MVW-13	EBJ	TV	OFU	150	39,855
P00842404-1	11/4/2022	12:39:14 PM	SNQ-15	EBD	TV	UOT	4	1,194
P00842417-1	11/4/2022	12:43:01 PM	MVW-13	EBJ	TV	OCO	103	13,439
P00842418-1	11/4/2022	12:44:16 PM	KAP-16	ECA	EF	OMP	2	121
P00842423-1	11/4/2022	12:45:09 PM	FRA-13	ECD	TV	OTR	2	559
P00842425-1	11/4/2022	12:45:19 PM	WIN-16	ECE	TV	OCO	53	15,907
P00842435-1	11/4/2022	12:52:08 PM	MSI-24	EBD	TV	OFU	32	21,207
P00842442-1	11/4/2022	12:58:05 PM	SHE-17	ECE	TV	OCO	66	6,491
P00842446-1	11/4/2022	1:03:41 PM	HIG-15	EBE	CP	OCO	82	28,470
P00842452-1	11/4/2022	1:08:01 PM	FNW-16	ECD	TV	OTR	4	4,537
P00842458-1	11/4/2022	1:13:43 PM	BEL-25	EBJ	UN	UGF	85	15,320
P00842460-1	11/4/2022	1:14:03 PM	SCH-13	EAA	EF	OFU	2	116
P00842461-1	11/4/2022	1:15:04 PM	FAL-13	EBD	TV	OFU	111	14,215

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00842466-1	11/4/2022	1:15:57 PM	ROL-16	EBJ	TV	OTR	7	329
P00842481-1	11/4/2022	1:29:08 PM	ELD-25	ECC	TV	UOT	4	291
P00842487-1	11/4/2022	1:44:00 PM	MAN-16	ECD	TV	OCO	28	5,179
P00847094-1	11/4/2022	1:52:48 PM	CAS-16	EBH	TV	OCO	3	5,517
P00842255-2	11/4/2022	1:56:50 PM	PET-15	EAC	EF	USV	1	34
P00842510-1	11/4/2022	2:13:39 PM	VAS-12	EBL	TV	OFU	35	5,968
P00842511-1	11/4/2022	2:13:40 PM	NBE-13	EBD	TV	OCO	206	32,255
P00842518-1	11/4/2022	2:18:46 PM	FRA-13	ECD	TV	OCO	63	12,331
P00842523-1	11/4/2022	2:25:29 PM	KNM-23	EBD	EF	OTF	3	560
P00842528-1	11/4/2022	2:29:48 PM	SNQ-17	EBD	TV	OSV	1	153
P00842530-1	11/4/2022	2:34:46 PM	VAS-12	EBL	TV	OFU	28	47,017
P00842453-1	11/4/2022	2:37:58 PM	VAS-12	EBL	TV	OCO	46	1,573
P00842533-1	11/4/2022	2:39:58 PM	ETN-15	EBH	TV	OTF	4	10,983
P00842536-1	11/4/2022	2:43:39 PM	MAP-16	EBE	EF	OCO	110	76,655
P00842543-1	11/4/2022	2:46:37 PM	HAZ-12	EBE	EF	OFU	141	40,877
P00842637-1	11/4/2022	2:47:45 PM	MHT-15	EBJ	TV	OSV	1	85
P00842547-1	11/4/2022	2:48:53 PM	LON-22	ECC	TV	OTR	4	1,347
P00842545-1	11/4/2022	2:52:31 PM	MHT-15	EBJ	TV	OSV	1	80
P00842553-1	11/4/2022	3:04:09 PM	WOL-23	ECC	TV	OCN	9	430
P00842555-1	11/4/2022	3:09:37 PM	LMD-16	EBI	TV	OCO	6	1,736
P00842525-1	11/4/2022	3:17:13 PM	SME-12	EBE	TV	OCO	6	4,464
P00842577-1	11/4/2022	3:42:28 PM	PET-15	EAC	EF	USE	1	519
P00842581-1	11/4/2022	3:46:51 PM	SOO-25	EBI	TV	OFU	2	1,244
P00842663-1	11/4/2022	4:08:58 PM	FNW-16	ECD	TV	OFU	2	437
P00842593-1	11/4/2022	4:09:30 PM	WOD-15	EBH	EF	OTR	6	3,198
P00842596-1	11/4/2022	4:14:25 PM	TOL-17	EBD	TV	OFU	-	62,835
P00842603-1	11/4/2022	4:23:01 PM	BDI-15	EBI	UN	OTR	-	1,173
P00842604-1	11/4/2022	4:24:12 PM	LLT-17	EBD	TV	OFU	21	4,094
P00842609-1	11/4/2022	4:30:49 PM	VAS-13	EBL	TV	OFU	18	3,115
P00842611-1	11/4/2022	4:32:15 PM	RAI-14	ECC	TV	OCO	16	2,022
P00842614-1	11/4/2022	4:34:30 PM	KAP-16	ECA	TV	OFU	18	1,321
P00842618-1	11/4/2022	4:41:49 PM	VAS-13	EBL	TV	OFU	246	19,427
P00842622-1	11/4/2022	4:44:42 PM	KNM-26	EBD	TV	OCO	33	2,415
P00842624-1	11/4/2022	4:51:23 PM	CAM-26	EBJ	TV	OFU	42	20,826
P00842643-1	11/4/2022	5:12:29 PM	ROC-26	ECC	TV	OCO	43	29,062
P00842651-1	11/4/2022	5:22:25 PM	CHI-13	ECD	TV	OFU	127	134,313
P00842652-1	11/4/2022	5:22:27 PM	PIK-21	EBD	TV	OCO	657	1,231,332
P00842679-1	11/4/2022	5:26:10 PM	BDI-15	EBI	TV	OFU	-	1,227
P00843455-1	11/4/2022	5:27:44 PM	VAS-12	EBL	TV	OHR	184	125,917
P00842686-1	11/4/2022	5:30:01 PM	HAN-13	EAA	EF	OCO	35	5,401
P00842691-1	11/4/2022	5:34:33 PM	OSC-23	EBI	TV	OCO	2	2,900
P00842692-1	11/4/2022	5:36:46 PM	PHA-16	EBE	TV	OCO	1,382	149,576
P00842712-1	11/4/2022	5:38:23 PM	SIN-23	ECE	TV	OFU	3	8,169
P00842715-1	11/4/2022	5:41:47 PM	LWS-13	EBI	TV	OFU	6	1,487
P00842856-1	11/4/2022	5:41:57 PM	TOL-15	EBD	TV	OCO	41	13,676
P00842717-1	11/4/2022	5:42:07 PM	BLU-17	ECC	TV	OCO	6	5,163

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00842719-1	11/4/2022	5:44:06 PM	VAS-12	EBL	TV	OFU	238	285,780
P00842725-1	11/4/2022	5:52:55 PM	OSC-25	EBI	EF	OTR	4	5,482
P00842728-1	11/4/2022	5:54:58 PM	MSI-24	EBD	TV	OCO	41	22,389
P00842731-1	11/4/2022	5:57:44 PM	EVA-23	EBJ	TV	OFU	32	5,496
P00842732-1	11/4/2022	6:00:05 PM	NRU-25	EBE	TV	OFU	54	100,564
P00842734-1	11/4/2022	6:01:49 PM	DUV-12	EBD	TV	OCO	830	182,960
P00842743-1	11/4/2022	6:02:39 PM	FAL-13	EBD	TV	OCO	5	6,923
P00842756-1	11/4/2022	6:07:46 PM	FRA-13	ECD	TV	OFU	13	14,968
P00842758-1	11/4/2022	6:11:25 PM	LOL-21	ECD	TV	OFU	17	1,129
P00843287-1	11/4/2022	6:19:19 PM	PMA-15	ECE	TV	OCO	5	5,200
P00842766-1	11/4/2022	6:20:18 PM	RPT-23	ECD	TV	OSV	1	118
P00842767-1	11/4/2022	6:21:12 PM	GRI-13	ECC	EF	OSV	1	2,361
P00842773-1	11/4/2022	6:29:16 PM	OSC-23	EBI	TV	OFU	9	5,667
P00842777-1	11/4/2022	6:30:23 PM	WIS-15	EBD	TV	OCO	1,150	118,020
P00842794-1	11/4/2022	6:34:17 PM	ING-13	EBD	TV	OCO	307	377,656
P00842801-1	11/4/2022	6:40:42 PM	LMC-27	EBD	TV	OFU	519	171,195
P00842772-1	11/4/2022	6:41:02 PM	CAP-13	ECC	TV	OCO	57	777
P00846277-1	11/4/2022	6:44:52 PM	FAC-25	EBE	TV	OCO	427	276,761
P00842836-1	11/4/2022	6:58:09 PM	SWE-27	EBJ	TV	OFU	23	13,067
P00842837-1	11/4/2022	6:59:33 PM	COT-16	EBD	TV	OTR	3	4,561
P00842840-1	11/4/2022	7:02:28 PM	FNW-16	ECD	TV	OFU	54	5,803
P00842841-1	11/4/2022	7:02:39 PM	MIR-15	EBD	TV	OCO	1	1,211
P00842845-1	11/4/2022	7:05:09 PM	FNW-17	ECD	TV	OCO	31	54,618
P00842848-1	11/4/2022	7:05:45 PM	PRI-24	ECC	TV	OCO	78	12,433
P00842851-1	11/4/2022	7:08:41 PM	GRI-15	ECC	TV	OPO	76	211,136
P00842568-1	11/4/2022	7:09:41 PM	EPO-15	ECD	TV	OCO	154	143,805
P00843407-1	11/4/2022	7:16:29 PM	PLA-21	EBD	TV	OCO	748	177,114
P00842858-1	11/4/2022	7:16:29 PM	PLA-23	EBD	TV	OCO	357	297,811
P00842861-1	11/4/2022	7:17:36 PM	WIS-14	EBD	TV	OSV	8	12,630
P00842769-1	11/4/2022	7:19:53 PM	LOL-21	ECD	TV	OCO	17	38,530
P00842892-1	11/4/2022	7:22:22 PM	EGT-11	EBE	TV	OCO	3,874	712,202
P00842903-1	11/4/2022	7:30:03 PM	WIS-14	EBD	TV	OJU	7	14,976
P00842905-1	11/4/2022	7:30:32 PM	SIN-22	ECD	TV	OFU	49	53,629
P00842913-1	11/4/2022	7:37:16 PM	ORT-23	ECA	TV	OFU	35	5,531
P00842915-1	11/4/2022	7:41:10 PM	MIR-15	EBD	TV	UTR	3	3,857
P00842919-1	11/4/2022	7:42:54 PM	FRA-12	ECD	TV	SCB	1,144	521,274
P00842921-1	11/4/2022	7:45:14 PM	SIN-22	ECD	TV	OFU	14	16,464
P00843129-1	11/4/2022	7:46:00 PM	TLN-0116	EBD	TV	OCO	-	506,064
P00843100-1	11/4/2022	7:47:00 PM	TLN-0159	EBD	TV	OCO	1,258	1,366,146
P00842933-1	11/4/2022	7:47:14 PM	FNW-16	ECD	TV	OFU	14	32,564
P00842992-1	11/4/2022	7:48:00 PM	VAS-12	EBL	TV	OHR	902	52,868
P00843054-1	11/4/2022	7:53:04 PM	HEM-15	ECA	TV	OCO	878	49,914
P00843096-1	11/4/2022	7:55:59 PM	PIN-25	EBD	TV	OCO	1,809	673,714
P00843133-1	11/4/2022	7:59:54 PM	NNO-12	EBJ	TV	OFU	82	14,230
P00843136-1	11/4/2022	8:01:18 PM	FNW-16	ECD	TV	OFU	14	11,614
P00843151-1	11/4/2022	8:02:57 PM	LOL-25	ECD	TV	UGF	12	16,488

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00845540-1	11/4/2022	8:05:56 PM	PIN-26	EBD	EF	OCO	2,200	460,497
P00843146-1	11/4/2022	8:06:44 PM	FCR-12	EBI	TV	OFU	37	21,797
P00843152-1	11/4/2022	8:09:25 PM	EPO-15	ECD	TV	OFU	65	69,801
P00843572-1	11/4/2022	8:11:32 PM	VAS-23	EBL	TV	OFU	129	236,557
P00843159-1	11/4/2022	8:11:39 PM	VAS-13	EBL	TV	OHR	1,122	889,551
P00843169-1	11/4/2022	8:12:36 PM	OSC-23	EBI	TV	OFU	3	6,261
P00843179-1	11/4/2022	8:14:16 PM	SUM-21	EAC	TV	OCO	32	4,341
P00843194-1	11/4/2022	8:15:20 PM	FAL-16	EBD	TV	OCO	55	37,643
P00843191-1	11/4/2022	8:16:01 PM	VAS-22	EBL	TV	OFU	8	10,097
P00843193-1	11/4/2022	8:16:10 PM	UHL-23	EBD	TV	OFU	48	4,893
P00843205-1	11/4/2022	8:17:32 PM	FNW-13	ECD	TV	SCB	808	272,008
P00843260-1	11/4/2022	8:19:45 PM	VAS-13	EBL	TV	OFU	18	39,760
P00843266-1	11/4/2022	8:21:45 PM	SHD-18	EBJ	TV	OTR	2	2,028
P00843280-1	11/4/2022	8:27:31 PM	DGR-17	ECA	TV	OCO	28	20,366
P00843284-1	11/4/2022	8:28:23 PM	FNW-16	ECD	TV	OFU	57	46,944
P00843285-1	11/4/2022	8:28:41 PM	FRU-25	ECA	TV	OCO	4	3,899
P00843313-1	11/4/2022	8:31:34 PM	LYO-12	EBI	TV	SCB	1,431	166,378
P00843294-1	11/4/2022	8:32:14 PM	VAS-23	EBL	TV	OFU	274	17,002
P00843296-1	11/4/2022	8:32:28 PM	FWD-13	EBJ	TV	SCB	1,683	204,000
P00843314-1	11/4/2022	8:33:30 PM	PAN-13	EBJ	TV	OTR	4	2,918
P00843315-1	11/4/2022	8:34:21 PM	ORT-26	ECA	TV	OFU	3	2,853
P00843318-1	11/4/2022	8:36:40 PM	FRU-25	ECA	TV	OFU	48	24,095
P00845835-1	11/4/2022	8:37:55 PM	HOB-15	EBI	TV	OFU	4	2,614
P00843323-1	11/4/2022	8:39:29 PM	SIN-22	ECD	TV	OFU	6	7,320
P00843327-1	11/4/2022	8:40:33 PM	HOB-17	EBI	TV	OFU	48	46,395
P00843435-1	11/4/2022	8:41:00 PM	CRE-15	EAD	TV	OCO	543	933,215
P00843363-1	11/4/2022	8:41:35 PM	GRI-15	ECC	TV	OCO	92	83,268
P00843339-1	11/4/2022	8:43:50 PM	BRW-15	EAC	TV	OCO	161	18,429
P00843340-1	11/4/2022	8:44:02 PM	ORT-23	ECA	TV	OSV	1	973
P00843362-1	11/4/2022	8:50:31 PM	MOT-17	ECC	TV	SCB	604	62,816
P00843143-1	11/4/2022	8:50:48 PM	PIN-01	EBD	UN	SCS	-	282,246
P00844622-1	11/4/2022	8:52:00 PM	PET-13	EAC	TV	OCO	524	236,758
P00843368-1	11/4/2022	8:53:55 PM	HEM-15	ECA	EF	UPT	3	48
P00843369-1	11/4/2022	8:54:05 PM	LOL-25	ECD	TV	OTR	4	5,460
P00843375-1	11/4/2022	8:56:19 PM	ETN-13	EBH	TV	OCO	50	120,400
P00843378-1	11/4/2022	8:58:48 PM	FNW-15	ECD	TV	OFU	12	6,845
P00847090-1	11/4/2022	8:58:49 PM	CAS-16	EBH	TV	OCO	18	23,792
P00843382-1	11/4/2022	8:59:54 PM	FRA-15	ECD	TV	OFU	22	19,161
P00843384-1	11/4/2022	9:00:37 PM	FNW-16	ECD	TV	OFU	18	20,037
P00843388-1	11/4/2022	9:01:02 PM	CHI-12	ECD	TV	OFU	18	39,722
P00843391-1	11/4/2022	9:02:10 PM	MCA-13	ECC	TV	OCO	415	342,320
P00843398-1	11/4/2022	9:02:59 PM	VAS-12	EBL	TV	OFU	14	19,628
P00843401-1	11/4/2022	9:03:29 PM	LAT-17	EBJ	TV	OTR	2	2,796
P00843990-1	11/4/2022	9:03:48 PM	MER-15	EBE	TV	OFU	11	8,856
P00843411-1	11/4/2022	9:04:42 PM	MVW-17	EBJ	TV	OFU	6	2,698
P00843426-1	11/4/2022	9:05:54 PM	CLV-16	EAD	TV	OCO	17	68,764

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00843428-1	11/4/2022	9:06:21 PM	SWA-12	EAD	TV	OFU	-	81,226
P00843431-1	11/4/2022	9:07:09 PM	ROC-16	ECC	TV	OFU	1	1,297
P00843466-1	11/4/2022	9:08:42 PM	GAG-13	EAC	TV	OCO	336	259,877
P00843440-1	11/4/2022	9:10:28 PM	NLM-12	EAC	TV	OCO	688	39,973
P00846580-1	11/4/2022	9:15:59 PM	CAS-16	EBH	TV	OFU	143	110,129
P00843463-1	11/4/2022	9:16:52 PM	CHI-16	ECD	TV	OHR	203	204,005
P00843474-1	11/4/2022	9:18:14 PM	WIS-15	EBD	TV	OCO	447	70,447
P00843490-1	11/4/2022	9:19:50 PM	MAN-16	ECD	TV	OFU	1	1,167
P00846374-1	11/4/2022	9:21:13 PM	PEA-15	EBJ	TV	OTP	164	58,768
P00843503-1	11/4/2022	9:22:51 PM	CHI-12	ECD	TV	OFU	52	53,755
P00843504-1	11/4/2022	9:22:56 PM	NUG-26	EAA	TV	OCO	21	17,539
P00843516-1	11/4/2022	9:23:19 PM	NBE-12	EBD	TV	OCO	-	69,737
P00848267-1	11/4/2022	9:23:36 PM	FLD-12	EAD	TV	OCO	298	1,533,047
P00843511-1	11/4/2022	9:24:25 PM	CAS-16	EBH	EF	OFU	86	65,744
P00843513-1	11/4/2022	9:24:35 PM	HOB-17	EBI	TV	OFU	14	10,029
P00843517-1	11/4/2022	9:24:44 PM	MAP-15	EBE	TV	OCO	13	11,806
P00843519-1	11/4/2022	9:24:57 PM	CRE-12	EAD	UN	OFU	32	38,637
P00843542-1	11/4/2022	9:26:34 PM	PTR-14	EAA	TV	OPO	803	1,491,620
P00844575-1	11/4/2022	9:28:24 PM	NLM-13	EAC	TV	OFU	27	22,888
P00843833-1	11/4/2022	9:29:14 PM	NNO-15	EBJ	TV	SCB	1,557	372,350
P00843568-1	11/4/2022	9:29:20 PM	FLD-15	EAD	ND	OCO	1,941	5,703,726
P00844364-1	11/4/2022	9:30:00 PM	TLN-0059	EAD	EF	SBF	-	(1)
P00843574-1	11/4/2022	9:32:17 PM	GLA-12	EAA	TV	OPO	91	96,086
P00843577-1	11/4/2022	9:32:51 PM	RDO-16	EBJ	TV	OFU	60	20,562
P00843581-1	11/4/2022	9:34:08 PM	VAS-13	EBL	TV	OFU	35	44,973
P00843593-1	11/4/2022	9:35:35 PM	MIR-17	EBD	TV	OCO	505	496,586
P00843129-1	11/4/2022	9:37:16 PM	TLN-0116	EBD	TV	OCO	5,165	106,047
P00843607-1	11/4/2022	9:39:06 PM	SEM-15	EAA	TV	UOT	1,724	168,206
P00843598-1	11/4/2022	9:39:38 PM	BIG-15	EAC	TV	OCO	305	478,928
P00843600-1	11/4/2022	9:39:50 PM	LYO-15	EBI	TV	OFU	18	19,834
P00843603-1	11/4/2022	9:40:23 PM	HAM-15	EAC	TV	OCO	88	86,081
P00843604-1	11/4/2022	9:40:25 PM	LAT-17	EBJ	TV	OSV	1	1,306
P00847307-1	11/4/2022	9:40:34 PM	BRO-15	EAD	TV	OCO	1,918	(1)
P00843608-1	11/4/2022	9:41:13 PM	ETN-15	EBH	TV	OFU	65	81,670
P00843613-1	11/4/2022	9:42:19 PM	ORT-22	ECA	TV	OFU	9	9,242
P00843615-1	11/4/2022	9:43:02 PM	BRO-16	EAD	TV	SCB	686	2,145,863
P00843616-1	11/4/2022	9:43:22 PM	ORT-22	ECA	TV	OCO	15	1,741
P00843620-1	11/4/2022	9:44:07 PM	HOB-15	EBI	TV	OTR	1	587
P00843622-1	11/4/2022	9:44:34 PM	PTR-16	EAA	TV	OFC	5	4,623
P00843623-1	11/4/2022	9:44:37 PM	VIS-26	EAA	TV	OCO	76	165,037
P00843625-1	11/4/2022	9:44:47 PM	DUV-12	EBD	TV	OCO	1,288	566,517
P00843641-1	11/4/2022	9:45:31 PM	LLT-15	EBD	TV	OCO	310	183,050
P00848291-1	11/4/2022	9:45:41 PM	LGY-12	EAD	TV	OCO	-	367,260
P00843636-1	11/4/2022	9:46:39 PM	BCH-13	EAA	TV	OCO	399	326,298
P00843635-1	11/4/2022	9:46:41 PM	GBK-15	EAD	TV	OCR	1,226	(1)
P00843640-1	11/4/2022	9:47:12 PM	SEQ-13	EBJ	TV	OFU	7	8,988

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00843644-1	11/4/2022	9:47:39 PM	SWA-12	EAD	EF	OCN	-	170
P00844914-1	11/4/2022	9:47:52 PM	SWA-15	EAD	TV	OCO	1,271	496,685
P00847611-1	11/4/2022	9:47:58 PM	CPV-12	EAD	TV	OCO	6	11,250
P00845536-1	11/4/2022	9:47:59 PM	PIN-25	EBD	TV	OCO	1,367	141,598
P00844672-1	11/4/2022	9:48:16 PM	CPV-15	EAD	TV	OPO	1,621	2,446,612
P00845543-1	11/4/2022	9:48:17 PM	PIN-27	EBD	TV	OCO	1,242	135,316
P00845533-1	11/4/2022	9:48:19 PM	PIN-23	EBD	TV	OCO	1,920	193,023
P00843735-1	11/4/2022	9:48:32 PM	CAM-25	EBJ	TV	SCB	1,480	243,943
P00848983-1	11/4/2022	9:48:39 PM	GBK-15	EAD	TV	OCO	-	117,611
P00845527-1	11/4/2022	9:48:45 PM	PIN-17	EBD	TV	OCO	384	36,269
P00848887-1	11/4/2022	9:48:55 PM	GBK-15	EAD	TV	OCO	78	391,069
P00843744-1	11/4/2022	9:49:28 PM	WIN-13	ECE	TV	OFU	13	10,255
P00844639-1	11/4/2022	9:50:16 PM	CPV-12	EAD	TV	OCO	1,092	1,645,840
P00843768-1	11/4/2022	9:50:36 PM	CUS-16	EAA	TV	OCO	115	98,026
P00843771-1	11/4/2022	9:50:43 PM	BRS-24	EAC	TV	OCO	676	(1)
P00848488-1	11/4/2022	9:50:55 PM	GBK-15	EAD	TV	OIN	22	82,177
P00848581-1	11/4/2022	9:51:19 PM	LGY-16	EAD	TV	OPO	566	2,431,300
P00843778-1	11/4/2022	9:51:34 PM	GBK-13	EAD	TV	OCO	75	242,784
P00847445-1	11/4/2022	9:51:46 PM	CPV-15	EAD	TV	OCO	9	10,429
P00844661-1	11/4/2022	9:51:48 PM	CPV-13	EAD	TV	OCO	611	1,028,914
P00843786-1	11/4/2022	9:51:48 PM	BCH-15	EAA	TV	OFU	111	85,276
P00843804-1	11/4/2022	9:52:00 PM	SLA-17	EAA	TV	OCO	-	85,150
P00847469-1	11/4/2022	9:52:13 PM	CPV-15	EAD	TV	OCO	33	68,232
P00848530-1	11/4/2022	9:53:02 PM	FLD-12	EAD	TV	OIN	14	72,792
P00843813-1	11/4/2022	9:53:11 PM	BCH-16	EAA	TV	OCO	523	244,799
P00844940-1	11/4/2022	9:53:25 PM	SWA-16	EAD	TV	OCO	754	264,591
P00848534-1	11/4/2022	9:53:30 PM	FLD-12	EAD	TV	OCO	86	457,931
P00843825-1	11/4/2022	9:53:33 PM	CUS-13	EAA	TV	OCO	35	56,613
P00843827-1	11/4/2022	9:53:35 PM	FRA-16	ECD	TV	OCO	23	39,802
P00843830-1	11/4/2022	9:53:40 PM	BLA-13	EAA	TV	OCO	1	1,023
P00843831-1	11/4/2022	9:53:46 PM	BHS-15	EAA	TV	OFU	15	6,416
P00847623-1	11/4/2022	9:54:02 PM	CPV-12	EAD	TV	OPO	2	23,490
P00847353-1	11/4/2022	9:54:10 PM	CPV-15	EAD	TV	OCO	4	4,462
P00843861-1	11/4/2022	9:54:58 PM	BCH-12	EAA	TV	OFU	7	4,837
P00843954-1	11/4/2022	9:55:30 PM	LYN-17	EAA	TV	OCO	85	49,913
P00843881-1	11/4/2022	9:55:52 PM	BRS-24	EAC	TV	OPO	13	33,878
P00843880-1	11/4/2022	9:55:52 PM	BHS-12	EAA	TV	OCO	33	65,404
P00848181-1	11/4/2022	9:56:04 PM	BRS-24	EAC	TV	OFU	29	73,386
P00849366-1	11/4/2022	9:57:22 PM	FLD-13	EAD	TV	OCO	295	1,610,510
P00843906-1	11/4/2022	9:57:35 PM	GLA-12	EAA	TV	OCO	9	22,550
P00843915-1	11/4/2022	9:58:06 PM	TOL-17	EBD	TV	OCO	109	56,268
P00847599-1	11/4/2022	9:58:20 PM	BRS-24	EAC	TV	OCO	102	152,164
P00843920-1	11/4/2022	9:58:29 PM	CTR-22	EBJ	TV	OFU	2	1,047
P00843924-1	11/4/2022	9:58:37 PM	PTR-16	EAA	TV	OCO	66	79,650
P00847295-1	11/4/2022	9:58:54 PM	CRE-16	EAD	TV	OCO	-	53,009
P00843976-1	11/4/2022	9:59:08 PM	NNO-12	EBJ	TV	SCB	827	131,342

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00843985-1	11/4/2022	9:59:13 PM	SLA-17	EAA	TV	SCB	2,018	607,351
P00843940-1	11/4/2022	9:59:24 PM	BRS-13	EAC	TV	OFU	141	111,493
P00843946-1	11/4/2022	9:59:47 PM	CUS-16	EAA	TV	OCO	22	24,707
P00843951-1	11/4/2022	9:59:58 PM	MAX-12	EAD	TV	OCO	1,251	3,158,629
P00845185-1	11/4/2022	10:00:00 PM	MAX-11	EAD	TV	OCR	213	379,366
P00844893-1	11/4/2022	10:00:00 PM	SWA-13	EAD	TV	SCB	1,359	550,418
P00845204-1	11/4/2022	10:00:00 PM	MAX-14	EAD	TV	SCB	55	147,870
P00844600-1	11/4/2022	10:00:00 PM	GBK-13	EAD	TV	OPO	490	3,019,856
P00844609-1	11/4/2022	10:00:00 PM	GBK-15	EAD	TV	OCO	17	1,823,727
P00845136-1	11/4/2022	10:00:00 PM	LGY-13	EAD	TV	OCR	89	259,770
P00845340-1	11/4/2022	10:00:00 PM	TLN-0059	EAD	TV	OPO	-	1,910,856
P00845150-1	11/4/2022	10:00:00 PM	LGY-15	EAD	TV	OCO	57	147,158
P00845237-1	11/4/2022	10:00:00 PM	FLD-12	EAD	TV	SCB	86	215,126
P00848149-1	11/4/2022	10:00:07 PM	FLD-12	EAD	TV	OPO	43	147,714
P00843983-1	11/4/2022	10:00:55 PM	VIS-26	EAA	TV	OCO	389	160,112
P00848562-1	11/4/2022	10:00:59 PM	LGY-16	EAD	TV	OPO	698	6,264,951
P00844035-1	11/4/2022	10:01:23 PM	WIN-16	ECE	TV	SCB	731	478,037
P00844040-1	11/4/2022	10:01:38 PM	BHS-12	EAA	TV	SCB	563	124,395
P00848603-1	11/4/2022	10:01:49 PM	LGY-16	EAD	TV	OCO	-	69,801
P00846284-1	11/4/2022	10:02:02 PM	BRS-24	EAC	TV	OCO	13	32,139
P00844017-1	11/4/2022	10:02:10 PM	KIN-24	ECE	TV	OHR	772	889,922
P00848905-1	11/4/2022	10:02:11 PM	FLD-13	EAD	TV	OCO	36	144,103
P00844049-1	11/4/2022	10:02:43 PM	BHS-15	EAA	TV	OPO	91	206,963
P00844107-1	11/4/2022	10:04:11 PM	PIP-22	EBI	TV	OFU	2	2,291
P00844127-1	11/4/2022	10:04:49 PM	LYO-15	EBI	TV	OFU	9	5,581
P00844180-1	11/4/2022	10:05:08 PM	LGY-12	EAD	TV	OPO	1,402	5,835,694
P00848241-1	11/4/2022	10:05:36 PM	FLD-12	EAD	TV	OPO	223	1,139,600
P00848008-1	11/4/2022	10:05:57 PM	GBK-13	EAD	TV	OCO	19	51,680
P00849157-1	11/4/2022	10:05:57 PM	LGY-12	EAD	TV	OPO	19	94,894
P00844166-1	11/4/2022	10:06:00 PM	SCH-13	EAA	TV	OCO	209	71,842
P00849228-1	11/4/2022	10:06:00 PM	FLD-13	EAD	TV	OPO	265	1,356,347
P00844223-1	11/4/2022	10:06:41 PM	PGA-13	ECE	TV	OHR	1,267	1,194,209
P00847598-1	11/4/2022	10:07:59 PM	BRS-24	EAC	TV	OCO	50	119,054
P00844258-1	11/4/2022	10:08:15 PM	BEL-25	EBJ	TV	OFU	5	2,933
P00844266-1	11/4/2022	10:08:34 PM	SWA-12	EAD	TV	OIN	1,865	1,552,217
P00848225-1	11/4/2022	10:08:40 PM	FLD-12	EAD	TV	OCO	89	460,111
P00849521-1	11/4/2022	10:08:56 PM	FLD-12	EAD	TV	OTF	1	5,190
P00844269-1	11/4/2022	10:09:14 PM	BAK-25	EAA	TV	OCO	117	32,019
P00844268-1	11/4/2022	10:09:19 PM	HAN-16	EAA	TV	OCO	1,263	98,240
P00848228-1	11/4/2022	10:09:37 PM	LGY-12	EAD	EF	OFC	-	24,116
P00844276-1	11/4/2022	10:09:55 PM	VIS-22	EAA	TV	OCO	1	2,378
P00850285-1	11/4/2022	10:10:03 PM	FLD-13	EAD	TV	OCO	17	93,120
P00847936-1	11/4/2022	10:10:32 PM	GBK-13	EAD	TV	OCO	235	957,468
P00844284-1	11/4/2022	10:10:38 PM	BRI-15	EAA	TV	OCO	850	186,164
P00844297-1	11/4/2022	10:11:26 PM	FRA-15	ECD	TV	OCO	1,189	1,223,501
P00845154-1	11/4/2022	10:11:50 PM	LGY-16	EAD	TV	SCB	228	786,093

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00844317-1	11/4/2022	10:11:54 PM	SLA-16	EAA	TV	UGF	40	34,516
P00844330-1	11/4/2022	10:12:14 PM	CRE-12	EAD	TV	OCO	63	89,669
P00849074-1	11/4/2022	10:12:19 PM	LGY-12	EAD	TV	OCO	12	61,867
P00848514-1	11/4/2022	10:12:19 PM	LGY-16	EAD	TV	OCO	52	201,926
P00848866-1	11/4/2022	10:12:23 PM	MAX-11	EAD	TV	OFC	7	13,415
P00848525-1	11/4/2022	10:12:33 PM	LGY-16	EAD	TV	OCO	48	186,358
P00844412-1	11/4/2022	10:12:49 PM	HAP-13	EAA	TV	OCO	2,532	302,617
P00850324-1	11/4/2022	10:13:00 PM	FLD-13	EAD	EF	OFU	4	22,544
P00848584-1	11/4/2022	10:13:33 PM	GBK-13	EAD	TV	OCO	1,336	1,803,286
P00848351-1	11/4/2022	10:13:35 PM	MAX-13	EAD	TV	OFU	44	177,448
P00848428-1	11/4/2022	10:13:46 PM	MAX-14	EAD	TV	OCR	42	155,200
P00848044-1	11/4/2022	10:13:56 PM	GBK-13	EAD	TV	OCO	20	61,398
P00844400-1	11/4/2022	10:13:59 PM	BLA-13	EAA	TV	OFU	8	5,019
P00847952-1	11/4/2022	10:14:25 PM	MAX-11	EAD	TV	OFU	17	38,276
P00844438-1	11/4/2022	10:14:51 PM	OSC-23	EBI	TV	OFU	3	1,661
P00848175-1	11/4/2022	10:15:05 PM	FLD-12	EAD	TV	OFU	3	7,615
P00848190-1	11/4/2022	10:15:22 PM	FLD-12	EAD	TV	OFU	2	5,266
P00844456-1	11/4/2022	10:15:35 PM	PTR-16	EAA	TV	OCO	51	33,364
P00845767-1	11/4/2022	10:15:58 PM	KEN-12	EAA	TV	OCO	14	15,938
P00848504-1	11/4/2022	10:16:38 PM	LGY-16	EAD	TV	OCO	41	46,997
P00844496-1	11/4/2022	10:17:52 PM	HKX-16	EAC	TV	OCO	76	45,245
P00847520-1	11/4/2022	10:17:55 PM	CPV-15	EAD	TV	OCO	6	11,412
P00844531-1	11/4/2022	10:18:30 PM	VWY-15	EAA	TV	OCO	465	123,783
P00844529-1	11/4/2022	10:19:00 PM	HLC-23	EAD	TV	OCO	-	24,421
P00844543-1	11/4/2022	10:19:05 PM	BDI-15	EBI	TV	SCB	846	395,646
P00845742-1	11/4/2022	10:19:18 PM	SHA-15	ECA	TV	OFU	5	3,713
P00844536-1	11/4/2022	10:20:12 PM	FAB-15	EAD	TV	OCO	307	1,601,379
P00846425-1	11/4/2022	10:20:19 PM	PTR-16	EAA	TV	OFU	5	5,353
P00848215-1	11/4/2022	10:20:44 PM	FLD-12	EAD	TV	OCO	12	53,564
P00844545-1	11/4/2022	10:20:49 PM	NUG-25	EAA	TV	OCO	3	687
P00844546-1	11/4/2022	10:20:50 PM	LAT-13	EBJ	TV	OTR	4	1,097
P00846668-1	11/4/2022	10:21:51 PM	CRE-15	EAD	EF	OFU	-	6,387
P00844564-1	11/4/2022	10:21:52 PM	SHD-18	EBJ	TV	OFU	29	31,315
P00844569-1	11/4/2022	10:22:27 PM	LYN-26	EAA	TV	OCO	6	8,305
P00844579-1	11/4/2022	10:23:20 PM	LYN-24	EAA	TV	OCO	9	19,443
P00844590-1	11/4/2022	10:24:01 PM	NBO-22	EBD	TV	OCO	162	131,495
P00842128-2	11/4/2022	10:24:37 PM	ELD-25	ECC	TV	OCO	10	1,757
P00844597-1	11/4/2022	10:24:49 PM	PRI-13	ECC	TV	OFU	45	108,583
P00844604-1	11/4/2022	10:25:53 PM	VIS-26	EAA	TV	OTR	2	3,250
P00844662-1	11/4/2022	10:27:17 PM	VIT-23	EBD	TV	OCO	2,612	1,979,532
P00844670-1	11/4/2022	10:27:20 PM	HWD-26	EBD	TV	OCO	2,427	1,631,308
P00845364-1	11/4/2022	10:27:48 PM	LLT-13	EBD	TV	OCO	861	624,110
P00844744-1	11/4/2022	10:28:56 PM	SLA-16	EAA	TV	OCO	1,768	360,147
P00844665-1	11/4/2022	10:29:30 PM	CRE-16	EAD	TV	OCO	179	253,571
P00844690-1	11/4/2022	10:30:00 PM	HKX-16	EAC	TV	OCO	304	245,966
P00844835-1	11/4/2022	10:30:11 PM	COT-13	EBD	TV	OCO	2,280	385,131

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00846586-1	11/4/2022	10:30:44 PM	HKX-16	EAC	TV	OFU	87	83,237
P00844738-1	11/4/2022	10:32:01 PM	ENU-16	EBI	TV	OFU	653	246,638
P00845917-1	11/4/2022	10:32:14 PM	ENU-16	EBI	TV	OCO	48	17,470
P00845921-1	11/4/2022	10:32:24 PM	ENU-16	EBI	TV	OFU	46	16,596
P00844915-1	11/4/2022	10:32:46 PM	NHL-13	EBD	TV	OCO	2,420	1,854,163
P00844803-1	11/4/2022	10:33:22 PM	EDG-16	EBJ	TV	OCN	36	16,191
P00844987-1	11/4/2022	10:33:36 PM	AVO-13	EBD	TV	OCO	2,155	1,304,169
P00846904-1	11/4/2022	10:33:43 PM	NOR-26	EBD	UN	OCO	2,016	1,831,905
P00846906-1	11/4/2022	10:33:51 PM	NOR-24	EBD	TV	OCO	1,550	1,276,296
P00844825-1	11/4/2022	10:33:56 PM	KIN-21	ECE	TV	OFU	3	6,839
P00846910-1	11/4/2022	10:33:57 PM	CWD-23	EBD	UN	OCO	2,176	2,202,802
P00846526-1	11/4/2022	10:33:58 PM	FAL-15	EBD	TV	OCO	8	10,757
P00845840-1	11/4/2022	10:34:00 PM	LLT-17	EBD	TV	OCO	10	8,156
P00846912-1	11/4/2022	10:34:03 PM	CWD-25	EBD	TV	OCO	1,114	1,172,856
P00846903-1	11/4/2022	10:34:20 PM	NOR-25	EBD	TV	OCO	712	663,869
P00846908-1	11/4/2022	10:34:39 PM	CWD-22	EBD	UN	OCO	1,316	1,330,717
P00846911-1	11/4/2022	10:34:40 PM	CWD-24	EBD	UN	OCO	1,518	1,496,900
P00846902-1	11/4/2022	10:34:43 PM	NOR-23	EBD	UN	OCO	871	765,058
P00844903-1	11/4/2022	10:35:00 PM	KNM-26	EBD	TV	OCO	-	-
P00846905-1	11/4/2022	10:35:09 PM	NOR-27	EBD	UN	OCO	730	642,814
P00844911-1	11/4/2022	10:35:12 PM	PTR-16	EAA	TV	OPO	2	1,792
P00844950-1	11/4/2022	10:35:23 PM	SLA-15	EAA	TV	OCO	75	32,646
P00847143-1	11/4/2022	10:35:54 PM	CUS-13	EAA	TV	OPO	258	231,865
P00845004-1	11/4/2022	10:36:04 PM	HWD-25	EBD	TV	OCO	9	17,711
P00846595-1	11/4/2022	10:36:20 PM	LON-25	ECC	TV	OCO	7	5,213
P00848582-1	11/4/2022	10:36:22 PM	LGY-16	EAD	TV	OFU	6	33,055
P00845133-1	11/4/2022	10:39:05 PM	LON-25	ECC	TV	OCN	3	1,778
P00845140-1	11/4/2022	10:39:28 PM	NHL-17	EBD	TV	OCO	2	1,743
P00842372-2	11/4/2022	10:39:53 PM	NUG-26	EAA	TV	OCO	19	838
P00845144-1	11/4/2022	10:40:17 PM	SLA-15	EAA	TV	OCO	3	1,978
P00845151-1	11/4/2022	10:41:30 PM	ORT-23	ECA	TV	OFU	28	10,233
P00845156-1	11/4/2022	10:42:08 PM	NUG-26	EAA	TV	OCO	111	60,956
P00845827-1	11/4/2022	10:42:15 PM	LYO-15	EBI	TV	OFU	5	4,839
P00845160-1	11/4/2022	10:42:23 PM	COT-15	EBD	TV	OCO	22	28,580
P00848573-1	11/4/2022	10:43:30 PM	LGY-16	EAD	TV	OCO	3	12,135
P00845165-1	11/4/2022	10:43:48 PM	RIT-18	EAC	TV	OFU	39	33,069
P00845178-1	11/4/2022	10:44:47 PM	JUA-21	EBD	TV	OCO	950	691,014
P00848050-1	11/4/2022	10:44:54 PM	SKY-25	EBD	TV	OCO	57	214,305
P00848476-1	11/4/2022	10:44:54 PM	SKY-25	EBD	TV	OCO	-	472,532
P00847647-1	11/4/2022	10:44:54 PM	SKY-25	EBD	TV	OCO	-	472,532
P00845172-1	11/4/2022	10:45:26 PM	HLC-25	EAD	TV	OCO	25	74,058
P00845192-1	11/4/2022	10:47:27 PM	WAB-12	EBI	TV	SCB	228	48,526
P00845188-1	11/4/2022	10:47:59 PM	LHL-22	EBE	TV	OCO	99	99,373
P00847513-1	11/4/2022	10:47:59 PM	SKY-25	EBD	TV	OCO	329	800,988
P00848101-1	11/4/2022	10:48:15 PM	GBK-13	EAD	TV	OPO	15	62,392
P00848715-1	11/4/2022	10:48:56 PM	BRO-15	EAD	TV	SCB	1,319	6,728,245

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00845211-1	11/4/2022	10:49:32 PM	PRI-23	ECC	TV	OCO	3,165	1,360,233
P00845206-1	11/4/2022	10:49:46 PM	ING-13	EBD	TV	OTR	6	9,516
P00845210-1	11/4/2022	10:50:30 PM	BAR-13	ECC	TV	OCO	24	34,274
P00845220-1	11/4/2022	10:51:54 PM	WAY-13	EBD	TV	OCO	9	6,686
P00845222-1	11/4/2022	10:52:38 PM	GRV-15	ECA	TV	OFU	10	6,592
P00847514-1	11/4/2022	10:53:18 PM	SKY-23	EBD	TV	OCO	291	728,917
P00845230-1	11/4/2022	10:53:23 PM	HAM-15	EAC	TV	OCO	32	25,867
P00845236-1	11/4/2022	10:54:05 PM	HAM-13	EAC	TV	OIN	4	10,492
P00845718-1	11/4/2022	10:55:00 PM	TLN-0012	EBD	TV	OCO	-	-
P00848074-1	11/4/2022	10:55:55 PM	SKY-25	EBD	TV	OSV	1	3,951
P00846160-1	11/4/2022	10:55:57 PM	WOL-23	ECC	TV	OFU	-	114,604
P00845245-1	11/4/2022	10:56:33 PM	KIN-25	ECE	TV	OSV	1	1,116
P00845248-1	11/4/2022	10:56:43 PM	NUG-26	EAA	TV	OIN	5	4,632
P00845250-1	11/4/2022	10:57:09 PM	ROC-17	ECC	TV	OTF	3	3,723
P00845254-1	11/4/2022	10:57:34 PM	CHR-23	ECE	TV	OFU	3	6,282
P00845255-1	11/4/2022	10:57:52 PM	WOL-23	ECC	TV	OFU	84	65,274
P00845257-1	11/4/2022	10:58:04 PM	BLU-16	ECC	TV	OFU	46	24,775
P00845267-1	11/4/2022	10:59:26 PM	ELD-27	ECC	TV	OFU	23	16,905
P00845837-1	11/4/2022	10:59:45 PM	PRI-13	ECC	TV	OFU	237	373,872
P00843929-1	11/4/2022	10:59:54 PM	CRE-16	EAD	TV	OHR	512	(1)
P00845720-1	11/4/2022	11:00:00 PM	PRI-13	ECC	TV	OCO	878	138,753
P00845278-1	11/4/2022	11:00:03 PM	PET-13	EAC	TV	OCO	12	1,903
P00846073-1	11/4/2022	11:00:21 PM	BAR-17	ECC	TV	OCO	187	148,765
P00845290-1	11/4/2022	11:00:50 PM	NBO-26	EBD	TV	OFU	61	4,609
P00845292-1	11/4/2022	11:00:52 PM	WOO-26	ECA	EF	OFU	22	9,669
P00845312-1	11/4/2022	11:00:53 PM	FRG-23	ECC	TV	OCO	2,000	1,124,966
P00845296-1	11/4/2022	11:01:05 PM	BAR-13	ECC	TV	OCO	110	146,923
P00845314-1	11/4/2022	11:01:23 PM	MOT-14	ECC	TV	OCO	952	52,534
P00845301-1	11/4/2022	11:01:29 PM	LEA-13	EBJ	TV	OFU	17	7,498
P00848593-1	11/4/2022	11:02:20 PM	LGY-16	EAD	TV	OCO	11	32,977
P00845309-1	11/4/2022	11:02:40 PM	BAR-15	ECC	TV	OCO	6	7,701
P00845310-1	11/4/2022	11:02:41 PM	FAL-13	EBD	TV	OCO	32	71,005
P00846037-1	11/4/2022	11:03:06 PM	PRI-13	ECC	TV	OCN	8	10,345
P00845324-1	11/4/2022	11:03:52 PM	SUM-22	EAC	TV	OCO	16	15,427
P00846133-1	11/4/2022	11:04:21 PM	GRI-16	ECC	TV	OCN	65	126,019
P00846149-1	11/4/2022	11:06:31 PM	PRI-23	ECC	TV	OCO	85	114,560
P00845362-1	11/4/2022	11:07:18 PM	BAR-15	ECC	TV	OCO	142	333,319
P00845387-1	11/4/2022	11:07:39 PM	SPG-11	ECC	TV	OPO	1,709	1,272,040
P00845371-1	11/4/2022	11:08:21 PM	FRG-25	ECC	TV	OHR	138	363,533
P00843619-1	11/4/2022	11:08:30 PM	FRA-12	ECD	TV	OCO	80	185,024
P00845384-1	11/4/2022	11:08:58 PM	BLS-22	EAA	TV	OTF	1	1,108
P00845386-1	11/4/2022	11:09:03 PM	PAT-15	ECC	TV	OCO	207	162,650
P00845395-1	11/4/2022	11:09:57 PM	HKX-16	EAC	TV	OCO	42	42,872
P00846366-1	11/4/2022	11:11:00 PM	AIR-26	ECC	TV	OFU	23	46,395
P00845409-1	11/4/2022	11:11:06 PM	BAR-16	ECC	TV	OCO	10	9,580
P00845435-1	11/4/2022	11:12:50 PM	WLS-12	EAC	TV	SCB	44	28,062

NUMBER	DATE	TIME	CKT	MPG	CAZ	EQT	CUST.OUT	CUST.MIN
P00845422-1	11/4/2022	11:13:08 PM	HKX-13	EAC	TV	OSV	2	572
P00845425-1	11/4/2022	11:13:28 PM	AIR-26	ECC	TV	OFU	32	50,626
P00845612-1	11/4/2022	11:14:00 PM	TLN-0035	ECA	TV	OCO	1,789	156,895
P00845434-1	11/4/2022	11:14:42 PM	KLA-17	EBD	TV	OCO	6	4,531
P00846594-1	11/4/2022	11:15:19 PM	ELD-23	ECC	TV	OCO	221	253,678
P00845440-1	11/4/2022	11:15:43 PM	ING-16	EBD	TV	OCO	2	565
P00845492-1	11/4/2022	11:17:23 PM	ING-13	EBD	TV	OCO	83	70,598
P00845520-1	11/4/2022	11:18:13 PM	LON-25	ECC	TV	OCO	2	1,104
P00845523-1	11/4/2022	11:18:42 PM	ELD-25	ECC	TV	OCO	65	146,358
P00843607-1	11/4/2022	11:19:00 PM	SEM-15	EAA	TV	UOT	2,932	438,441
P00845529-1	11/4/2022	11:19:01 PM	SWI-13	ECC	TV	OFC	3	2,676
P00845670-1	11/4/2022	11:21:00 PM	HLC-23	EAD	TV	OCO	138	68,733
P00846852-1	11/4/2022	11:21:52 PM	WLS-16	EAC	TV	OCO	-	33,585
P00845581-1	11/4/2022	11:23:22 PM	PLG-17	ECC	TV	OSV	1	1,177
P00845570-1	11/4/2022	11:23:58 PM	WLS-16	EAC	TV	OFU	46	62,968
P00845589-1	11/4/2022	11:24:44 PM	RIT-16	EAC	TV	OSV	1	2,807
P00845590-1	11/4/2022	11:25:22 PM	AIR-23	ECC	TV	OFU	27	52,639
P00845594-1	11/4/2022	11:25:39 PM	PLU-24	ECC	TV	OSV	1	819
P00845600-1	11/4/2022	11:26:19 PM	ROC-16	ECC	TV	OFU	65	132,744
P00845606-1	11/4/2022	11:27:54 PM	LON-25	ECC	TV	OFU	33	54,282
P00845609-1	11/4/2022	11:28:37 PM	AIR-22	ECC	TV	OCO	104	164,583
P00845611-1	11/4/2022	11:28:52 PM	LUH-14	ECC	TV	OCN	65	101,340
P00849054-1	11/4/2022	11:31:08 PM	FLD-13	EAD	TV	OCO	10	53,370
P00845650-1	11/4/2022	11:31:19 PM	ORT-23	ECA	TV	OCO	39	24,566
P00845652-1	11/4/2022	11:35:05 PM	LLT-13	EBD	TV	OCO	78	18,555
P00845639-1	11/4/2022	11:37:59 PM	PAT-15	ECC	TV	OFU	47	97,434
P00845649-1	11/4/2022	11:40:34 PM	PIN-26	EBD	TV	OCO	82	65,364
P00848604-1	11/4/2022	11:41:09 PM	LGY-16	EAD	TV	OCO	-	68,901
P00845651-1	11/4/2022	11:41:20 PM	HKX-16	EAC	TV	OFU	19	3,169
P00848971-1	11/4/2022	11:41:46 PM	GBK-15	EAD	TV	OCO	-	9,826
P00844199-1	11/4/2022	11:48:21 PM	FAL-15	EBD	TV	OCO	101	4,547
P00846158-1	11/4/2022	11:49:44 PM	FRG-25	ECC	TV	OFU	25	36,997
P00845669-1	11/4/2022	11:52:45 PM	ORT-23	ECA	TV	OCO	10	10,588
P00845680-1	11/4/2022	11:59:12 PM	YEL-26	ECC	TV	OCO	3	2,614

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

Thrashing winds leave thousands without power in Western Washington

Nov. 5, 2022 at 6:43 am Updated Nov. 5, 2022 at 5:41 pm
By Seattle Times staff

Crews worked swiftly Saturday on the daunting task of restoring power to 250,000 to 300,000 customers up and down Western Washington, after pounding winds left their mark in downed trees and branches that toppled into yards, roads and electrical wires.

A woman was trapped and critically injured when a tree fell on her home near Marysville Pilchuck High School late Friday. Police and firefighters administered CPR and took the woman, estimated to be in her 20s, to Providence Regional Medical Center.



Snohomish County PUD reported that more than 190,000 of its customers lost power around midnight Saturday. By 4 p.m., the PUD website reported significant progress, with the number falling to 100,000 outages.

Puget Sound Energy, before the sun came up, said more than 100,000 customers were without power in its service areas in King, Thurston, Whatcom, Kitsap and Skagit counties. After 9 a.m., the number was down to 80,000, according to PSE, and about an hour later, 71,234 were reported to be without power. Numbers continue to drop by a few thousand an hour. Before 1 p.m.,

the number had dropped below 54,000. By 4 p.m., it was just under 36,000.

Along with the whipping wind and rain, PSE noted on its website that saturated soil had contributed, as is commonly the case in major outages. The saturated ground can destabilize trees, and they become vulnerable to tipping over. Trees stressed by the summer drought are also more susceptible to damage, Stickney said.

Falling tree branches appear to be responsible for a lot of the problems, Stickney added, though at least one power pole was toppled. "Tree falls into pole and then it comes down."



The fallout from the wind surge and the scale of the cleanup became more apparent by the light of day. Overnight, scattered intersections had been off-limits because of downed tree limbs or debris.

Some roads remained shut down, while others were cleared by Saturday morning. U.S. Highway 2 between milepost 38 at Eagle Falls and milepost 50 of the Old Cascade Highway in Skykomish reopened around 8:30 a.m., after crews worked through the night to clear out 25 downed trees, according to state transportation officials.

The National Weather Service says winds peaked late Friday, with gusts in excess of 50 mph along some parts of the Strait of Juan de Fuca.