

**2014**

**Qualifying Events Report**

**November 29, 2014 Event**

Filed on Febuary 20, 2015

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# **Event Description**

### **Event Date and Time**

November 29, 2014, 07:00 – November 30, 2014, 16:30

### **Event Type**

Wind

### **Service Areas Significantly Affected**

 Whatcom, Skagit, Island and Kitsap Counties, and Vashon Island

### **Number of Customers Affected**

System wide, approximately 55,788 customers were without power during the course of this event.

### **Summary of System Impacts**

|  |  |
| --- | --- |
| **Total Number of Outages** | **261** |
| Distribution Circuits Totally Out | 5 |
| Distribution Circuits Partially Out | 256 |

|  |  |
| --- | --- |
| Transmission Circuits Affected | 0 |
| Substations Offline | 0 |

### **Mobilization Summary**

####  Operating Bases Placed In Emergency Status

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Base** | **Date Opened** | **Time Opened** | **Date Closed** | **Time Closed** |
| Whatcom/Skagit/Island | 11/29/2014 | 09:00 | 11/30/2014 | 11:00 |
| North King | n/a | n/a | n/a | n/a |
| South King | n/a | n/a | n/a | n/a |
| Pierce | n/a | n/a | n/a | n/a |
| Thurston | n/a | n/a | n/a | n/a |
| Kitsap | 11/29/2014 | 10:30 | 11/30/2014 | 18:30 |
| Vashon | 11/29/2014 | 10:30 | 11/30/2014 | 18:30 |
| Kittitas | n/a | n/a | n/a | n/a |

####  Emergency Coordination Center (ECC)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ECC** | **Date Opened** | **Time Opened** | **Date Closed** | **Time Closed** |
|  | n/a | n/a | n/a | n/a |

# **Active Outage Event Chart**



# **Major Event Day – Qualification**

**IEEE[[1]](#footnote-1) 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 SAIDI[[2]](#footnote-2) 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 TMED where TMED = exp (Alpha + 2.5 \* Beta)
7. Any day in the next year with SAIDI > Tmed is a major event day
 |
| **Puget Sound Energy’s IEEE Major Event Threshold (TMED ) for 2014: 5.6 Minutes** |

# **Qualified Events - 2014**

### **Current Event – Calculation Detail**

|  |  |  |  |
| --- | --- | --- | --- |
| **Event Date, Time Range** | **Total Customer Minutes** | **Average Customer Count** | **Event SAIDI**(Customer Minutes /Customer Count) |
| 11/29/2014, 07:00 – 11/30/2014,16:30 | 12,024,608 | 1,106,880 | 10.86 |

### **YTD Daily SAIDI Detail**

(first day that daily SAIDI exceeded PSE’s TMED of 5.6 Minutes by qualifying event)

|  |  |  |
| --- | --- | --- |
| **Date** | **Daily SAIDI****(from midnight to midnight)** | **O&M[[3]](#footnote-3) Costs– Deferrable** **Accumulation** |
| 1-11-2014 | 41.62 (r) | $ 4,446,568 |
| 2-12-2014 | 9.01 (r) | $ 595,642 |
| 2-23-2014 | 8.4 (r) | $ 1,287,276 |
| 10-25-2014 | 93.38 | $ 1,670,514 |
| 11-11-2014 | 86.48 | $ 0 |
| 11-29-2014 | 13.51 | $ 0 |

# **Event Restoration – Cost Summary**

 **Restoration Costs Detail by Qualifying Event (updated)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Event Date Range | Qualified Events Deferred Account | Capital Costs | O&M Costs Not Deferrable | O&M CostsDeferrableAccumulation | Total O&M Costs | Total |
| 1/11-12//2014 |  |  $472,000  |  $358,555  |  $4,446,568  | $4,805,123  |  $5,277,123  |
| 2/12-13/2014 |  |  $65,959  |  $44,121  |  $595,642  |  $639,763  |  $705,722  |
| 2/23-25/2014 |  |  $86,871  |  $97,208  |  $1,287,276  | $1,384,484  |  $1,471,355  |
| 10/25-28/2014 |  $2,334,277 (r) |  $329,739  |  $263,314  |  $1,670,514  | $1,933,828  |  $4,597,844(r)  |
| 11/11-15/2014 |  $7,583,163 (r) |  $680,496 (r) |  $309,030  |  $-  |  $309,030  |  $8,572,689(r) |
| 11/29-30/2014 |  $1,193,815  |  $62,760  |  $76,149  |  $-  |  $76,149  |  $1,332,723  |

(r) Revised

### **YTD Storm Restoration Costs Detail**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Qualifying Events Deferred Account | Capital | O&M - Not Deferrable | O&M - Deferrable Accumulation | Total O&M | Total |
| $11,111,254  | $1,697,824  | $1,148,378  | $8,000,000  | $9,148,378  | $21,957,456  |

# **Detail Documents**

**Restoration Cost Detail – Current Event**

**Detailed List of Distribution Circuits with Outages**

**Terms, Codes and Definitions Used on Detail Reports**

**Newsprint Media Coverage**

### **Restoration Cost Detail – Current Event**



### **Detailed List of Outages** **Starting on November 29, 2014, the First TMED-Exceeding Day of the Current Event**

| **NUMBER** | **DATE** | **TIME** | **CKT** | **MPG** | **CAZ** | **EQT** | **CUST.OUT** | **CUST.MIN** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| P00135357-1 | 11/29/2014 | 12:05:48 AM | KNM-25 | EBD | OE | USV | 1 | 77 |
| P00135358-1 | 11/29/2014 | 12:18:48 AM | BHL-15 | ECE | EF | UPC | 5 | 3,422 |
| P00135359-1 | 11/29/2014 | 12:51:49 AM | BRO-15 | EAD | TV | OCO | 0 | 1,832 |
| P00135378-1 | 11/29/2014 | 12:54:00 AM | YEL-27 | ECC | CP | OPO | 2,815 | 22,146 |
| P00135360-1 | 11/29/2014 | 12:54:57 AM | YEL-27 | ECC | CP | OPO | 597 | 394,275 |
| P00135388-1 | 11/29/2014 | 1:39:02 AM | LYN-24 | EAA | TV | OCO | 16 | 2,647 |
| P00135390-1 | 11/29/2014 | 2:00:29 AM | ETN-15 | EBH | EF | USV | 1 | 147 |
| P00135392-1 | 11/29/2014 | 2:19:00 AM | SLA-17 | EAA | TV | OCO | 1,731 | 297,653 |
| P00135396-1 | 11/29/2014 | 3:21:42 AM | HAN-13 | EAA | TV | OCO | 21 | 9,623 |
| P00135397-1 | 11/29/2014 | 3:22:37 AM | BHS-12 | EAA | OD | OTF | 2 | 116 |
| P00135398-1 | 11/29/2014 | 3:24:21 AM | LGY-15 | EAD | TV | OFU | 46 | 3,833 |
| P00135402-1 | 11/29/2014 | 3:47:00 AM | SCH-15 | EAA | TV | OCO | 47 | 52,139 |
| P00135405-1 | 11/29/2014 | 4:13:37 AM | LGY-15 | EAD | TV | OFU | 68 | 7,515 |
| P00135410-1 | 11/29/2014 | 4:23:49 AM | ROE-13 | EAA | TV | OFU | 96 | 11,606 |
| P00135408-1 | 11/29/2014 | 4:26:00 AM | HAN-16 | EAA | TV | OCO | 18 | 12,520 |
| P00135420-1 | 11/29/2014 | 4:47:27 AM | SLA-16 | EAA | OD | OCO | 17 | 11,561 |
| P00135413-1 | 11/29/2014 | 4:48:19 AM | BRO-16 | EAD | TV | OCO | 19 | 28,923 |
| P00135414-1 | 11/29/2014 | 4:56:14 AM | PGA-13 | ECE | TV | OCO | 70 | 10,428 |
| P00135415-1 | 11/29/2014 | 4:58:49 AM | BRO-16 | EAD | TV | OCO | 7 | 5,688 |
| P00135421-1 | 11/29/2014 | 5:25:53 AM | CUS-15 | EAA | TV | OCO | 42 | 7,571 |
| P00135428-1 | 11/29/2014 | 5:31:00 AM | LGY-12 | EAD | TV | OCO | 1,379 | 181,350 |
| 11155862 | 11/29/2014 | 5:47:00 AM | KEN-12 | EAA | TV | SBF | 3,423 | 256,853 |
| P00135552-1 | 11/29/2014 | 5:58:00 AM | KIN-24 | ECE | TV | OCO | 1,631 | 623,084 |
| 11154344 | 11/29/2014 | 6:13:00 AM | VAS-22 | EBL | TV | OSV | 1 | 169 |
| P00135542-1 | 11/29/2014 | 6:19:00 AM | SLA-16 | EAA | TV | OCO | 272 | 296,335 |
| P00135447-1 | 11/29/2014 | 6:23:35 AM | FLD-13 | EAD | TV | OFU | 33 | 5,187 |
| P00135452-1 | 11/29/2014 | 6:29:01 AM | BRO-15 | EAD | TV | OCO | 238 | 97,430 |
| P00135454-1  | 11/29/2014 | 6:29:08 AM | KIN-24 | ECE | UN | OCO | 35 | 3,530 |
| P00135650-1 | 11/29/2014 | 6:30:39 AM | KIN-21 | ECE | TV | OCO | 18 | 2,472 |
| P00135460-1 | 11/29/2014 | 6:33:00 AM | KIN-24 | ECE | TV | OCO | 636 | 572,269 |
| P00135757-1 | 11/29/2014 | 6:37:44 AM | LGY-15 | EAD | TV | OFU | 15 | 3,313 |
| P00135462-1 | 11/29/2014 | 6:38:30 AM | PGA-13 | ECE | TV | OCO | 41 | 4,811 |
| P00135464-1 | 11/29/2014 | 6:40:54 AM | POU-15 | ECE | TV | OCO | 1,446 | 309,457 |
| P00135487-1 | 11/29/2014 | 6:48:00 AM | KIN-24 | ECE | UN | OCO | 41 | 41,390 |
| P00135470-1 | 11/29/2014 | 6:49:02 AM | SAH-13 | EBD | EF | USV | 1 | 221 |
| P00135472-1 | 11/29/2014 | 6:50:26 AM | SKE-23 | ECE | TV | OCO | 20 | 34,927 |
| P00135475-1 | 11/29/2014 | 6:53:50 AM | PMA-16 | ECE | TV | OCO | 139 | 135,242 |
| 11160732 | 11/29/2014 | 6:56:00 AM | PMA-16 | ECE | TV | OCO | 295 | 348,040 |
| **NUMBER** | **DATE** | **TIME** | **CKT** | **MPG** | **CAZ** | **EQT** | **CUST.OUT** | **CUST.MIN** |
| P00135526-1 | 11/29/2014 | 7:02:01 AM | LGY-16 | EAD | TV | OFU | 38 | 8,770 |
| P00135485-1 | 11/29/2014 | 7:05:01 AM | MIL-23 | ECE | UN | OCO | 20 | 27,447 |
| P00135489-1 | 11/29/2014 | 7:10:19 AM | LGY-16 | EAD | TV | OFU | 70 | 36,407 |
| P00135490-1 | 11/29/2014 | 7:12:02 AM | ROE-13 | EAA | EF | OPI | 44 | 11,127 |
| P00135499-1 | 11/29/2014 | 7:13:00 AM | BRS-24 | EAC | TV | OCO | 330 | 217,124 |
| P00135495-1 | 11/29/2014 | 7:14:00 AM | SCH-12 | EAA | EF | OFC | 52 | 17,139 |
| P00135506-1 | 11/29/2014 | 7:27:00 AM | LAB-25 | EAA | TV | OFU | 91 | 64,701 |
| P00135507-1 | 11/29/2014 | 7:33:00 AM | HAN-13 | EAA | TV | OTR | 1 | 1,229 |
| P00135508-1 | 11/29/2014 | 7:35:00 AM | BRO-16 | EAD | TV | OCO | 4 | 7,424 |
| P00135510-1 | 11/29/2014 | 7:36:32 AM | FLD-12 | EAD | TV | OFU | 22 | 10,135 |
| P00135668-1 | 11/29/2014 | 7:43:00 AM | KIN-21 | ECE | TV | OCO | 220 | 168,873 |
| P00136805-1 | 11/29/2014 | 7:49:00 AM | PMA-15 | ECE | TV | OSV | 2 | 960 |
| P00135541-1 | 11/29/2014 | 7:49:00 AM | PMA-15 | ECE | TV | OSV | 2 | 5,795 |
| P00135639-1 | 11/29/2014 | 7:52:27 AM | LGY-16 | EAD | TV | OFU | 5 | 2,998 |
| P00135548-1 | 11/29/2014 | 7:54:40 AM | PGA-13 | ECE | TV | OCO | 5 | 1,347 |
| P00135553-1 | 11/29/2014 | 8:01:02 AM | MIL-23 | ECE | TF | OCO | 2 | 3,478 |
| P00135554-1 | 11/29/2014 | 8:01:56 AM | LGY-12 | EAD | TV | OCO | 55 | 47,589 |
| P00135556-1 | 11/29/2014 | 8:02:00 AM | CHR-23 | ECE | TV | OCO | 125 | 102,725 |
| P00135559-1 | 11/29/2014 | 8:05:00 AM | LGY-12 | EAD | TV | OCO | 15 | 7,203 |
| P00135560-1 | 11/29/2014 | 8:06:14 AM | BHL-13 | ECE | UN | OFU | 44 | 24,706 |
| P00135562-1 | 11/29/2014 | 8:11:00 AM | MUR-13 | ECE | TV | OCO | 27 | 45,738 |
| P00135565-1 | 11/29/2014 | 8:18:27 AM | MUR-13 | ECE | TV | OCO | 27 | 10,494 |
| P00135566-1 | 11/29/2014 | 8:19:27 AM | SKI-12 | EBD | BA | OTF | 7 | 4,975 |
| P00135569-1 | 11/29/2014 | 8:20:00 AM | SWD-13 | ECE | TV | OCO | 113 | 34,528 |
| P00135572-1 | 11/29/2014 | 8:23:18 AM | MUR-13 | ECE | TV | OCO | 30 | 13,146 |
| P00135578-1 | 11/29/2014 | 8:27:18 AM | SLA-16 | EAA | TV | OCO | 57 | 63,950 |
| P00135581-1 | 11/29/2014 | 8:32:02 AM | ROS-15 | EBD | TV | OCO | 41 | 35,259 |
| P00135582-1 | 11/29/2014 | 8:32:07 AM | ANA-15 | EAC | TV | OSV | 1 | 775 |
| P00135607-1 | 11/29/2014 | 8:35:00 AM | FNW-16 | ECD | UN | OCO | 25 | 35,594 |
| P00136234-1 | 11/29/2014 | 8:35:23 AM | FNW-16 | ECD | TV | OHR | 1,194 | 303,495 |
| P00135727-1 | 11/29/2014 | 8:39:27 AM | VIS-26 | EAA | TV | OCO | 49 | 35,195 |
| P00135816-1 | 11/29/2014 | 8:40:35 AM | SIN-23 | ECD | TV | OCO | 938 | 454,531 |
| P00135629-1 | 11/29/2014 | 8:41:59 AM | PGA-12 | ECE | TV | OTR | 2 | 2,415 |
| P00135635-1 | 11/29/2014 | 8:42:00 AM | CHI-12 | ECD | TF | OCO | 15 | 20,843 |
| P00135648-1 | 11/29/2014 | 8:44:00 AM | MIL-16 | ECE | TV | OCO | 137 | 226,582 |
| P00135714-1 | 11/29/2014 | 8:44:12 AM | LGY-16 | EAD | TV | OFU | 21 | 13,261 |
| P00136586-1 | 11/29/2014 | 8:46:00 AM | MIL-17 | ECE | TV | OCO | 164 | 135,849 |
| P00135670-1 | 11/29/2014 | 8:46:37 AM | PMA-12 | ECE | TV | OCO | 106 | 126,817 |
| P00135656-1 | 11/29/2014 | 8:47:00 AM | CHI-13 | ECD | TV | OCO | 126 | 150,186 |
| P00135456-1 | 11/29/2014 | 8:48:26 AM | KIN-21 | ECE | TV | OCO | 18 | 13,618 |
| P00135712-1 | 11/29/2014 | 8:51:00 AM | MIR-13 | EBF | TV | OCO | 157 | 237,214 |
| **NUMBER** | **DATE** | **TIME** | **CKT** | **MPG** | **CAZ** | **EQT** | **CUST.OUT** | **CUST.MIN** |
| P00135679-1 | 11/29/2014 | 8:53:00 AM | BTR-22 | EBD | TV | OCO | 738 | 472,910 |
| P00135683-1 | 11/29/2014 | 8:54:00 AM | MIL-22 | ECE | TV | OCO | 675 | 260,376 |
| P00135680-1 | 11/29/2014 | 8:54:12 AM | PGA-12 | ECE | UN | OTR | 145 | 3,715 |
| P00136706-1 | 11/29/2014 | 8:55:46 AM | MIL-22 | ECE | TV | OCO | 15 | 5,798 |
| P00135710-1 | 11/29/2014 | 8:59:16 AM | MUR-13 | ECE | TV | OSV | 1 | 417 |
| P00135717-1 | 11/29/2014 | 9:03:49 AM | BRW-16 | EAC | TV | OCO | 2,566 | 108,585 |
| P00135957-1 | 11/29/2014 | 9:06:17 AM | PGA-13 | ECE | TV | OCO | 2 | 2,890 |
| P00135722-1 | 11/29/2014 | 9:11:15 AM | WIN-13 | ECE | TV | OTR | 1 | 1,093 |
| P00135723-1 | 11/29/2014 | 9:12:19 AM | BAK-22 | EAA | TV | OSV | 1 | 806 |
| P00135737-1 | 11/29/2014 | 9:29:36 AM | ROE-17 | EAA | TV | OSV | 1 | 666 |
| P00135741-1 | 11/29/2014 | 9:32:27 AM | RPT-15 | ECD | TV | OSV | 1 | 1,515 |
| P00135743-1 | 11/29/2014 | 9:33:02 AM | SCH-16 | EAA | TV | OSV | 1 | 323 |
| P00135746-1 | 11/29/2014 | 9:36:46 AM | MAN-16 | ECD | TV | OCO | 73 | 42,633 |
| P00135749-1 | 11/29/2014 | 9:37:00 AM | BAK-25 | EAA | TV | OPO | 1,272 | 318,275 |
| P00135751-1 | 11/29/2014 | 9:39:47 AM | SKE-23 | ECE | TV | OCO | 629 | 86,728 |
| P00135755-1 | 11/29/2014 | 9:43:28 AM | MUR-17 | ECE | TV | OCO | 1,668 | 410,523 |
| P00135758-1 | 11/29/2014 | 9:45:02 AM | TAN-16 | ECC | UN | OFU | 1 | 87 |
| P00135761-1 | 11/29/2014 | 9:48:54 AM | NNO-15 | EBJ | TV | OSV | 1 | 197 |
| P00135765-1 | 11/29/2014 | 9:52:12 AM | FNW-15 | ECD | TV | OCO | 9 | 7,762 |
| P00136916-1 | 11/29/2014 | 9:54:47 AM | VAS-13 | EBL | TV | OCO | 11 | 5,877 |
| P00135770-1 | 11/29/2014 | 9:55:02 AM | PMA-12 | ECE | TV | OCO | 1 | 804 |
| P00135773-1 | 11/29/2014 | 9:57:40 AM | BRI-17 | EAA | TV | OSV | 10 | 6,700 |
| P00135780-1 | 11/29/2014 | 10:02:41 AM | LYN-24 | EAA | EF | OTF | 3 | 1,888 |
| P00135782-1 | 11/29/2014 | 10:02:52 AM | MER-13 | EBE | EF | OCR | 22 | 11,996 |
| P00135795-1 | 11/29/2014 | 10:03:10 AM | PMA-12 | ECE | UN | OCO | 105 | 52,062 |
| P00135787-1 | 11/29/2014 | 10:03:47 AM | FLD-12 | EAD | TV | OHR | 828 | 17,001 |
| P00136159-1 | 11/29/2014 | 10:10:33 AM | TLN-0063 | ECE | TV | OCO | 5,724 | 1,775,444 |
| P00135806-1 | 11/29/2014 | 10:12:27 AM | BRO-16 | EAD | UN | OFU | 159 | 21,174 |
| P00135807-1 | 11/29/2014 | 10:12:55 AM | NHL-16 | EBD | TV | OSV | 1 | 851 |
| P00136214-1 | 11/29/2014 | 10:13:00 AM | BRW-15 | EAC | TV | OCR | 1,519 | 270,792 |
| P00135811-1 | 11/29/2014 | 10:14:00 AM | MAN-12 | ECD | TV | OCO | 3 | 3,884 |
| P00135818-1 | 11/29/2014 | 10:15:26 AM | HLC-23 | EAD | TV | OCO | 1,101 | 219,338 |
| P00135829-1 | 11/29/2014 | 10:15:37 AM | LGY-16 | EAD | TV | OFU | 42 | 14,027 |
| P00135823-1 | 11/29/2014 | 10:17:46 AM | SHE-15 | ECE | TV | OCO | 2,239 | 229,514 |
| P00135819-1 | 11/29/2014 | 10:18:00 AM | POU-15 | ECE | TV | OCO | 30 | 26,422 |
| P00135836-1 | 11/29/2014 | 10:22:13 AM | SKE-22 | ECE | TV | OFU | 77 | 23,427 |
| P00135834-1 | 11/29/2014 | 10:26:32 AM | FLD-12 | EAD | TV | OCO | 83 | 20,080 |
| P00135888-1 | 11/29/2014 | 10:31:00 AM | SUM-21 | EAC | TV | OCO | 14 | 7,522 |
| P00135847-1 | 11/29/2014 | 10:31:00 AM | KIN-22 | ECE | EF | OTR | 2 | 1,452 |
| P00135849-1 | 11/29/2014 | 10:31:26 AM | WOB-27 | EAA | TV | OSV | 1 | 594 |
| P00135854-1 | 11/29/2014 | 10:32:02 AM | BRW-13 | EAC | TV | OCO | 1,669 | 166,951 |
| **NUMBER** | **DATE** | **TIME** | **CKT** | **MPG** | **CAZ** | **EQT** | **CUST.OUT** | **CUST.MIN** |
| P00135859-1 | 11/29/2014 | 10:33:47 AM | PMA-15 | ECE | TV | OCO | 1,268 | 401,758 |
| P00136797-1 | 11/29/2014 | 10:35:30 AM | PMA-15 | ECE | TV | OCO | 3 | 24,186 |
| P00135862-1 | 11/29/2014 | 10:40:00 AM | WOB-26 | EAA | TV | OCO | 51 | 18,002 |
| P00135863-1 | 11/29/2014 | 10:40:17 AM | SIL-13 | ECE | TV | OCO | 611 | 69,929 |
| P00135864-1 | 11/29/2014 | 10:40:26 AM | HAN-16 | EAA | EF | OFU | 11 | 2,682 |
| P00135875-1 | 11/29/2014 | 10:41:54 AM | SHE-25 | ECE | UN | OTR | 10 | 6,424 |
| P00135896-1 | 11/29/2014 | 10:47:18 AM | SHE-17 | ECE | UN | OTR | 6 | 3,758 |
| P00135902-1 | 11/29/2014 | 10:48:49 AM | LAT-14 | EBJ | TV | OHR | 414 | 38,240 |
| P00137152-1 | 11/29/2014 | 10:50:00 AM | WIN-12 | ECE | TV | OCO | 9 | 7,365 |
| P00135911-1 | 11/29/2014 | 10:50:22 AM | SHE-16 | ECE | TV | OSV | 1 | 604 |
| P00135916-1 | 11/29/2014 | 10:51:01 AM | HAN-16 | EAA | TV | OCO | 29 | 4,600 |
| P00135923-1 | 11/29/2014 | 10:54:00 AM | FRA-12 | ECD | TV | OFU | 2 | 3,364 |
| P00136261-1 | 11/29/2014 | 11:02:00 AM | LGY-16 | EAD | TV | OCO | 1,889 | 431,510 |
| P00135933-1 | 11/29/2014 | 11:02:00 AM | POU-15 | ECE | TV | OCO | 16 | 23,718 |
| P00135943-1 | 11/29/2014 | 11:06:25 AM | KIN-23 | ECE | UN | OCO | 162 | 15,428 |
| P00136202-1 | 11/29/2014 | 11:09:08 AM | KNM-26 | EBD | TV | OCO | 82 | 25,715 |
| P00135948-1 | 11/29/2014 | 11:10:44 AM | KIN-24 | ECE | UN | OSV | 2 | 2,593 |
| P00135958-1 | 11/29/2014 | 11:14:00 AM | LGY-16 | EAD | TV | OCO | 4 | 3,687 |
| P00135961-1 | 11/29/2014 | 11:16:28 AM | LAU-13 | EAA | EF | UPT | 10 | 4,698 |
| P00135963-1 | 11/29/2014 | 11:17:35 AM | KIN-21 | ECE | TV | OCN | 2 | 1,280 |
| P00135965-1 | 11/29/2014 | 11:19:08 AM | CEK-14 | ECE | UN | OCO | 2 | 1,382 |
| P00135966-1 | 11/29/2014 | 11:19:29 AM | NUG-25 | EAA | TV | OFU | 47 | 7,844 |
| P00135982-1 | 11/29/2014 | 11:23:07 AM | MUR-13 | ECE | UN | OSV | 1,384 | 18,362 |
| P00135972-1 | 11/29/2014 | 11:24:40 AM | MIL-23 | ECE | TV | OCO | 46 | 28,569 |
| P00135976-1 | 11/29/2014 | 11:25:58 AM | CHI-13 | ECD | EO | OTR | 2 | 3,125 |
| P00135981-1 | 11/29/2014 | 11:27:46 AM | SCH-13 | EAA | EF | OJU | 1 | 204 |
| P00135991-1 | 11/29/2014 | 11:29:07 AM | HAP-16 | EAA | TV | OCO | 10 | 5,071 |
| P00136632-1 | 11/29/2014 | 11:29:13 AM | KIN-21 | ECE | TV | OCO | 15 | 3,861 |
| P00136048-1 | 11/29/2014 | 11:32:10 AM | CWD-24 | EBD | TV | OCO | 87 | 19,537 |
| P00136185-1 | 11/29/2014 | 11:35:50 AM | KIN-24 | ECE | UN | OCO | 75 | 27,739 |
| P00136105-1 | 11/29/2014 | 11:36:00 AM | PMA-16 | ECE | TV | OCO | 22 | 27,037 |
| P00136122-1 | 11/29/2014 | 11:37:00 AM | SUM-21 | EAC | TV | OCO | 496 | 97,688 |
| P00136127-1 | 11/29/2014 | 11:38:05 AM | POU-15 | ECE | TV | OCO | 26 | 22,294 |
| P00136132-1 | 11/29/2014 | 11:38:26 AM | SHE-16 | ECE | UN | OTR | 4 | 2,262 |
| P00136161-1 | 11/29/2014 | 11:41:00 AM | FLD-12 | EAD | TV | OCO | 12 | 9,643 |
| P00136173-1 | 11/29/2014 | 11:47:13 AM | FNW-16 | ECD | TV | OCO | 6 | 5,576 |
| P00136176-1 | 11/29/2014 | 11:50:00 AM | KNM-26 | EBD | TV | OTR | 3 | 2,587 |
| P00136180-1 | 11/29/2014 | 11:54:16 AM | MIL-23 | ECE | UN | OTR | 4 | 3,863 |
| P00136190-1 | 11/29/2014 | 11:56:00 AM | PMA-16 | ECE | UN | OCO | 136 | 100,709 |
| P00136191-1 | 11/29/2014 | 11:57:00 AM | TRA-26 | ECE | UN | OSV | 1 | 414 |
| P00136195-1 | 11/29/2014 | 11:57:15 AM | DUV-13 | EBD | TV | OCO | 1,291 | 207,680 |
| **NUMBER** | **DATE** | **TIME** | **CKT** | **MPG** | **CAZ** | **EQT** | **CUST.OUT** | **CUST.MIN** |
| P00136193-1 | 11/29/2014 | 11:58:00 AM | MIL-23 | ECE | TV | OTR | 5 | 8,860 |
| P00136194-1 | 11/29/2014 | 11:58:51 AM | PLY-15 | EAA | TV | OSV | 1 | 515 |
| P00136203-1 | 11/29/2014 | 12:02:33 PM | PAT-15 | ECC | EF | UFJ | 25 | 9,073 |
| P00136207-1 | 11/29/2014 | 12:03:54 PM | PMA-12 | ECE | TV | OCO | 68 | 18,707 |
| P00136210-1 | 11/29/2014 | 12:06:11 PM | ROS-22 | EBD | TV | OCO | 1,079 | 133,299 |
| P00136238-1 | 11/29/2014 | 12:06:59 PM | SKE-23 | ECE | TV | OFU | 115 | 29,446 |
| P00136228-1 | 11/29/2014 | 12:13:00 PM | SUM-21 | EAC | TV | OCO | 15 | 9,562 |
| P00136970-1 | 11/29/2014 | 12:14:00 PM | MED-33 | EBE | TV | OCO | 6 | 5,866 |
| P00136233-1 | 11/29/2014 | 12:20:11 PM | FNW-15 | ECD | TV | OCO | 171 | 99,368 |
| P00136240-1 | 11/29/2014 | 12:21:00 PM | PLG-13 | ECC | UN | OCO | 2 | 1,509 |
| P00136251-1 | 11/29/2014 | 12:27:01 PM | SIL-16 | ECE | UN | OFU | 2 | 2,382 |
| P00136342-1 | 11/29/2014 | 12:29:36 PM | WIN-12 | ECE | TV | OCO | 38 | 11,985 |
| P00137161-1 | 11/29/2014 | 12:34:26 PM | MUR-13 | ECE | TV | OCO | 11 | 13,256 |
| P00136332-1 | 11/29/2014 | 12:36:35 PM | CPV-15 | EAD | OD | OHR | 680 | 195,092 |
| P00136588-1 | 11/29/2014 | 12:42:37 PM | KNM-23 | EBD | TV | OCO | 38 | 12,695 |
| P00136339-1 | 11/29/2014 | 12:52:00 PM | HAN-15 | EAA | TV | OPO | 1 | 1,702 |
| P00136345-1 | 11/29/2014 | 12:54:00 PM | SHE-26 | ECE | TV | OCO | 33 | 29,632 |
| P00136372-1 | 11/29/2014 | 12:58:25 PM | FLD-12 | EAD | TV | SBF | 11,441 | 327,708 |
| P00136384-1 | 11/29/2014 | 12:59:00 PM | CEK-15 | ECE | TV | OFU | 26 | 8,052 |
| P00136420-1 | 11/29/2014 | 1:01:44 PM | NUG-25 | EAA | EF | OTF | 1 | 453 |
| P00136527-1 | 11/29/2014 | 1:02:42 PM | BRO-15 | EAD | TV | OFU | 206 | 9,692 |
| P00136440-1 | 11/29/2014 | 1:03:00 PM | FLD-13 | EAD | TV | OCO | 34 | 22,363 |
| P00136568-1 | 11/29/2014 | 1:03:06 PM | LGY-15 | EAD | TV | OCO | 405 | 18,893 |
| P00136545-1 | 11/29/2014 | 1:08:00 PM | DUV-12 | EBD | TV | OCO | 18 | 38,308 |
| P00136988-1 | 11/29/2014 | 1:12:00 PM | BRW-15 | EAC | TV | OCO | 262 | 252,478 |
| P00136548-1 | 11/29/2014 | 1:15:00 PM | LOC-23 | EBE | EF | OCO | 7 | 7,191 |
| P00136554-1 | 11/29/2014 | 1:16:00 PM | BRW-15 | EAC | TF | OCO | 56 | 29,535 |
| P00136562-1 | 11/29/2014 | 1:18:49 PM | HOU-23 | EBD | EF | OSV | 1 | 812 |
| P00136567-1 | 11/29/2014 | 1:19:35 PM | KNM-26 | EBD | TV | OCN | 1 | 445 |
| P00136591-1 | 11/29/2014 | 1:27:16 PM | KIN-21 | ECE | TV | OCO | 9 | 4,230 |
| P00136618-1 | 11/29/2014 | 1:36:04 PM | BUC-26 | ECA | EF | USV | 1 | 154 |
| P00136629-1 | 11/29/2014 | 1:40:00 PM | TRA-22 | ECE | TV | OCO | 66 | 59,453 |
| P00136630-1 | 11/29/2014 | 1:40:51 PM | FRA-12 | ECD | TV | OTR | 7 | 1,114 |
| P00136635-1 | 11/29/2014 | 1:42:16 PM | LGY-13 | EAD | TV | OSV | 1 | 7 |
| P00136641-1 | 11/29/2014 | 1:43:00 PM | PMA-16 | ECE | TV | OCO | 1 | 1,551 |
| P00136732-1 | 11/29/2014 | 1:43:48 PM | PMA-15 | ECE | TV | OCO | 3 | 4,258 |
| P00136644-1 | 11/29/2014 | 1:45:18 PM | ANA-16 | EAC | TV | OFU | 4 | 1,071 |
| P00136834-1 | 11/29/2014 | 1:45:54 PM | LOC-22 | EBE | EF | UTC | 41 | 12,535 |
| P00136828-1 | 11/29/2014 | 1:50:52 PM | HLC-23 | EAD | TV | OCO | 569 | 282,006 |
| P00136676-1 | 11/29/2014 | 2:02:21 PM | CHI-12 | ECD | TV | OSV | 1 | 1,165 |
| P00136684-1 | 11/29/2014 | 2:05:11 PM | HIG-13 | EBE | EO | OTF | 7 | 3,431 |
| **NUMBER** | **DATE** | **TIME** | **CKT** | **MPG** | **CAZ** | **EQT** | **CUST.OUT** | **CUST.MIN** |
| P00136685-1 | 11/29/2014 | 2:05:28 PM | TRA-22 | ECE | TV | OSV | 5 | 2,258 |
| P00136688-1 | 11/29/2014 | 2:08:00 PM | NRU-25 | EBE | EF | USV | 1 | 1,387 |
| P00136698-1 | 11/29/2014 | 2:11:12 PM | FRA-12 | ECD | TV | OCO | 2 | 306 |
| P00136751-1 | 11/29/2014 | 2:42:06 PM | LOL-21 | ECD | TV | OCO | 3 | 1,221 |
| P00136907-1 | 11/29/2014 | 2:43:00 PM | CPV-15 | EAD | TV | OPO | 35 | 10,408 |
| P00136757-1 | 11/29/2014 | 2:45:18 PM | TRA-23 | ECE | TV | OCO | 40 | 5,708 |
| P00136763-1 | 11/29/2014 | 2:48:00 PM | RAI-13 | ECC | EF | OPO | 1 | 709 |
| P00136778-1 | 11/29/2014 | 2:55:05 PM | PMA-12 | ECE | TV | OFU | 2 | 2,328 |
| P00136784-1 | 11/29/2014 | 2:57:07 PM | MUR-13 | ECE | TV | OCO | 27 | 1,386 |
| P00136785-1 | 11/29/2014 | 2:58:00 PM | PLG-16 | ECC | TV | OTF | 5 | 497 |
| P00136792-1 | 11/29/2014 | 3:02:00 PM | PMA-12 | ECE | TV | OCO | 7 | 10,753 |
| P00136833-1 | 11/29/2014 | 3:24:38 PM | MIL-22 | ECE | UN | OCO | 298 | 63,543 |
| P00136824-1 | 11/29/2014 | 3:26:00 PM | BRW-15 | EAC | TV | OCO | 134 | 19,165 |
| P00136837-1 | 11/29/2014 | 3:42:00 PM | LAT-14 | EBJ | TV | OSV | 2 | 1,433 |
| P00136844-1 | 11/29/2014 | 3:54:55 PM | BEL-15 | EBJ | EF | OCO | 12 | 1,733 |
| P00136845-1 | 11/29/2014 | 3:56:00 PM | ANA-15 | EAC | TV | OTF | 4 | 4,005 |
| P00136851-1 | 11/29/2014 | 4:03:01 PM | HIG-16 | EBE | EF | OTF | 1 | 373 |
| P00136853-1 | 11/29/2014 | 4:04:53 PM | CRE-12 | EAD | TV | OSV | 1 | 474 |
| P00136855-1 | 11/29/2014 | 4:06:25 PM | LGY-16 | EAD | TV | OFU | 15 | 3,220 |
| P00136861-1 | 11/29/2014 | 4:11:29 PM | RPT-17 | ECD | UN | OSV | 3 | 2,264 |
| P00136940-1 | 11/29/2014 | 4:20:00 PM | SLA-16 | EAA | TV | OCO | 19 | 3,165 |
| P00135465-1 | 11/29/2014 | 4:22:29 PM | LAB-25 | EAA | TV | OSW | 351 | 37,446 |
| P00137062-1 | 11/29/2014 | 4:25:01 PM | KIN-22 | ECE | TV | OCO | 4 | 843 |
| P00136880-1 | 11/29/2014 | 4:26:55 PM | BAK-25 | EAA | UN | OTF | 2 | 370 |
| P00136889-1 | 11/29/2014 | 4:29:51 PM | CRE-12 | EAD | TV | OTF | 1 | 450 |
| P00136892-1 | 11/29/2014 | 4:31:09 PM | VIS-23 | EAA | EF | OFU | 4 | 921 |
| P00136917-1 | 11/29/2014 | 4:58:36 PM | FRA-12 | ECD | TV | OCO | 20 | 6,431 |
| P00136921-1 | 11/29/2014 | 5:01:00 PM | MIL-16 | ECE | TV | OCO | 2 | 2,991 |
| P00136926-1 | 11/29/2014 | 5:05:30 PM | VIS-26 | EAA | UN | OFU | 37 | 9,951 |
| P00136935-1 | 11/29/2014 | 5:11:56 PM | TRA-23 | ECE | OD | OCO | 40 | 11,313 |
| P00136937-1 | 11/29/2014 | 5:13:15 PM | PMA-15 | ECE | EF | OCO | 2 | 1,922 |
| P00136939-1 | 11/29/2014 | 5:15:22 PM | MAN-16 | ECD | EF | OTR | 4 | 751 |
| P00136952-1 | 11/29/2014 | 5:24:00 PM | BRO-16 | EAD | TV | OCO | 86 | 46,866 |
| P00136956-1 | 11/29/2014 | 5:27:25 PM | CPV-15 | EAD | EO | OFU | 186 | 31,170 |
| P00136964-1 | 11/29/2014 | 5:31:59 PM | PMA-12 | ECE | TV | OCO | 68 | 72,295 |
| P00136981-1 | 11/29/2014 | 5:59:12 PM | MAN-12 | ECD | TV | OTR | 1 | 328 |
| P00136982-1 | 11/29/2014 | 6:00:00 PM | KIN-24 | ECE | TV | OCO | 7 | 4,167 |
| P00136993-1 | 11/29/2014 | 6:09:08 PM | MER-13 | EBE | TV | OTF | 3 | 779 |
| P00136997-1 | 11/29/2014 | 6:12:58 PM | SOO-26 | EBI | EF | OFC | 5 | 614 |
| P00137005-1 | 11/29/2014 | 6:21:00 PM | CEK-15 | ECE | UN | OCO | 1 | 171 |
| P00137006-1 | 11/29/2014 | 6:27:00 PM | TRA-22 | ECE | TV | OCO | 1 | 1,059 |
| **NUMBER** | **DATE** | **TIME** | **CKT** | **MPG** | **CAZ** | **EQT** | **CUST.OUT** | **CUST.MIN** |
| P00137016-1 | 11/29/2014 | 6:53:33 PM | VAS-13 | EBL | TV | OTR | 11 | 2,394 |
| P00137023-1 | 11/29/2014 | 7:00:00 PM | PAT-15 | ECC | AO | UPT | 3 | 749 |
| P00137028-1 | 11/29/2014 | 7:13:02 PM | TRA-22 | ECE | UN | UTR | 9 | 1,407 |
| P00137051-1 | 11/29/2014 | 7:31:00 PM | LAU-13 | EAA | EF | UPT | 15 | 3,646 |
| P00137058-1 | 11/29/2014 | 7:52:18 PM | ORT-22 | ECA | EF | PTF | 1 | 264 |
| P00137060-1 | 11/29/2014 | 7:52:48 PM | LLT-13 | EBD | EO | UTC | 3 | 931 |
| 11154328 | 11/29/2014 | 8:04:00 PM | CUS-15 | EAA | CP | OPO | 12 | 1,488 |
| P00137075-1 | 11/29/2014 | 8:47:04 PM | KIN-24 | ECE | UN | UPT | 2 | 1,386 |
| P00137104-1 | 11/29/2014 | 9:28:05 PM | HIG-16 | EBE | EO | OTF | 1 | 49 |
| P00137114-1 | 11/29/2014 | 9:46:57 PM | VIS-26 | EAA | TV | OCO | 70 | 3,915 |
| P00137119-1 | 11/29/2014 | 9:49:17 PM | KIN-24 | ECE | TV | OCO | 4 | 2,743 |
| 11160733 | 11/29/2014 | 10:15:00 PM | PMA-16 | ECE | TV | OCO | 60 | 17,040 |
| P00137144-1 | 11/29/2014 | 10:17:50 PM | SIL-15 | ECE | TV | OCO | 2 | 658 |
| P00137158-1 | 11/29/2014 | 10:20:00 PM | CWD-22 | EBD | EF | UPC | 37 | 20,188 |
| P00137148-1 | 11/29/2014 | 10:22:00 PM | SWD-12 | ECE | TV | OCO | 46 | 29,061 |
| P00135736-1 | 11/29/2014 | 10:28:57 PM | VWY-13 | EAA | TV | OCO | 1 | 61 |
| P00135983-1 | 11/29/2014 | 11:22:36 PM | TRA-23 | ECE | TV | OCO | 9 | 4,757 |
| P00137175-1 | 11/29/2014 | 11:24:04 PM | KIN-24 | ECE | UN | UPT | 4 | 1,932 |

### **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**

**Sent: Thursday, November 27, 2014 3:24 PM**

**Subject: ACTION: Continued threat for wet and windy weather with possible flooding through Friday, then much colder with possible lowland snow Friday night and Saturday.**

**National Weather Service, Seattle WA**

This message is intended as an informational briefing for public safety decision makers. We ask that you continue to monitor latest information using the resources listed below. You are welcome to share this message with others in your organization.

SYNOPSIS:

Another frontal system will move southeast over western Washington tonight into Friday morning, bringing breezy to windy conditions in advance of it as well as yet another bout of rain. Rain amounts may be heavy mainly up in the mountains, which will give rise to another round of minor to moderate river flooding.

Much colder modified arctic air will move in behind the front late Friday night and into Saturday. This cold air combined with moisture lingering over the area may give rise to the chance for mixed precipitation and snow in the lowlands. Surface high pressure behind the modified arctic front will also give rise to Fraser outflow winds, bringing cold and windy conditions to the San Juan Islands and western Whatcom County.

HEADLINES:

A Flood Warning remains in effect for the Skokomish River near Potlatch affecting Mason County and for the Skagit River near Concrete and Mt. Vernon affecting Skagit County.

A Flood Watch remains in effect for the following counties: Mason, Whatcom, Skagit, Snohomish, King, Pierce, Thurston and Lewis.

A High Wind Watch for Fraser outflow winds is in effect for San Juan county, western Whatcom county and coastal areas of Skagit county from Friday night into Saturday.

FORECAST SPECIFICS:

**Flooding:** Significant precipitation is expected to continue for the remainder of the day and into Friday. Terrain driven forcing will allow for heavier rains in the Olympics and Cascades through tonight. Upon passage of the front, the heavier rains will shift southward through the day Friday. Expected rainfall totals for the period Tonight through Friday afternoon range from one half inch to 2 inches of rainfall in the lowlands and 2 to 4 inches of rainfall in the higher terrain of the Olympics and Cascades. Rivers that have flooded or have come close to flood stage over the past 24 hours, including the Nooksack, Skagit, Stillaguamish, Skykomish, Tolt, Snoqualmie and Snohomish rivers will all face the risk of minor to moderate flooding as rain activity becomes more pronounced tonight and into Friday. No major flooding is expected at this time.

**Wind:** Breezy to windy conditions have been observed out ahead of the approaching front and will continue into Friday with the frontal passage. Once the front passes and surface high pressure begins to set up over southern Brititsh Columbia, Fraser outflow winds are expected to bring cold and windy conditions to western Whatcom county, coastal areas of Skagit County and the San Juans. **This has resulted in the High Wind Watch in effect for those areas for Friday night into Saturday for northeast winds of 25 to 40 mph with possible gusts up to 55 mph.**

**Snow:** Lingering moisture from the frontal passage combined with arctic air behind the front as well as some atmospheric convergence may result in lowland snow Friday night into Saturday for the north Puget Sound region and northwest interior, including areas along the Strait of Juan de Fuca. Some coastal and southwest interior locations may be impacted as well. Snowfall amounts will typically be an inch or less for most locations although isolated locations may see up to locally 2 inches.

Saturday, Nov. 29, 2014 at 11:26PM

**Power outages, strong winds follow overnight snowfall**

By Scott Sistek, KOMO Staff

Snow, freezing temperatures and a gusty arctic wind combined to bring the season's first winter-type storm to Western Washington, knocking out power to thousands and causing some localized tidal flooding.

The morning began with the region's first lowland snow as a low pressure system dropped south out of British Columbia in the wake of a warm pattern that just 24 hours before had temperatures well into the 50s. About 1-3 inches fell across King, Snohomish, Kitsap and Clallam Counties, but reports were as high as 7 inches on Whidbey Island.

Once the snow began to taper off, a chilly arctic wind began to rage. Gusts reached 47 mph in Bellingham and 67 mph on Lummi Island. The winds spread south across Puget Sound and blasted the Sound's eastern shores with gusts over 40 mph. Alki Beach reported a gust of 48 mph while Magnolia's West Point hit a gust of 44 mph.

The winds toppled trees, causing power outages, including leaving thousands of Puget Sound Energy customers in the dark, especially in Skagit County.

But power was also knocked out at the Edmonds ferry dock just as the 1:30 p.m. ferry from Kingston was arriving, leaving officials unable to unload the vessel. The outage halted service on the Kingston-Edmonds run for two full hours before resuming around 4 p.m.

The strong winds on the Sound combined with high tide to cause localized flooding along the shores. A boat sank at Seabeck Marina with other boats damaged. The boardwalk at Des Moines' Redondo Beach was damaged by strong waves, while reports showed strong waves also appeared to damage the bulkhead in Edmonds near the Senior Center. Video also showed mammoth waves crashing against the seawall at Alki Beach. Water flooded several homes in Dash Point, and in Everett, Rotary Park was partially submerged as the Snohomish River reached flood stage.

1. IEEE: Institute of Electrical and Electronics Engineers [↑](#footnote-ref-1)
2. SAIDI: System Average Interruption Duration Index [↑](#footnote-ref-2)
3. O&M: Operations and Maintenance

(r): Revised [↑](#footnote-ref-3)