

**2015**

**Qualifying Events Report**

**November 24, 2015 Event**

Filed on Febuary 16, 2016

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# **Event Description**

### **Event Date and Time**

Start: November 24, 2015, 11:00

End: November 26, 2015, 22:00

### **Event Type**

Wind

**Service Areas Significantly Affected**

Kitsap County and Vashon Island

### **Number of Customers Affected**

System wide, approximately 103,703 customers were without power during the course of this event.

### **Summary of System Impacts**

|  |  |
| --- | --- |
| **Total Number of Outages** | **226** |

|  |  |
| --- | --- |
| Transmission Lines Affected | 0 |
| Substations Offline | 7 |

### **Mobilization Summary**

####  Operating Bases Placed In Emergency Status

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Base** | **Date Opened** | **Time Opened** | **Date Closed** | **Time Closed** |
| Whatcom/Skagit/Island | n/a | n/a | n/a | n/a |
| 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 | 11-24-2015 | 14:00 | 11-26-2015 | 12:00 |
| Vashon | 11-24-2015 | 14:00 | 11-26-2015 | 12:00 |
| 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 2015: 6.1 Minutes** |

# **Qualified Events - 2015**

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Event Date, Time Range** | **Total Customer Minutes** | **Average Customer Count** | **Event SAIDI**(Customer Minutes /Customer Count) |
| 11-24-2015, 19:00 to 11-26-015, 22:00 | 51,132,092 | 1,117,148 | 45.8 |

### **YTD Daily SAIDI Detail**

(first day that daily SAIDI exceeded PSE’s TMED of 6.1 Minutes by qualifying event)

|  |  |  |
| --- | --- | --- |
| **Date** | **Daily SAIDI****(from midnight to midnight)** | **O&M[[3]](#footnote-3) Costs– Deferrable** **Accumulation** |
| 1-18-2015 | 25.8 | $2,011,173 |
| 8-29-2015 | 208.8 | $5,988,827 |
| 10-10-2015 | 11.1 | $- |
| 11-17-2015 | 187.1 | $- |
| 11-24-2015 | 43.6 | $- |

# **Event Restoration – Cost Summary**

### **2015 Restoration Costs Detail by Qualifying Event (updated)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Event Date  | Qualified Events Deferred Account | Capital Costs | O&M Costs Not Deferrable | O&M CostsDeferrableAccumulation | Total O&M Costs | Total |
| 01-18-2015 | $- | $255,457 | $159,839 | $2,011,173 | $2,171,012 | $2,426,469 |
| 08-29-2015 | $5,514,151 | $933,263 | $1,006,272 | $5,988,827 | $12,509,250 | $13,442,514 |
| 10-10-2015 | $798,115 | $40,449 | $121,231 | $- | $121,231 | $959,794 |
| 11-17-2015 | $8,765,969 | $545,182 | $792,538 | $- | $792,538 | $10,103,689 |
| 11-24-2015 | $1,853,331 | $14,517 | $148,195 | $- | $148,195 | $2,016,044 |

(r) Revised

### **2015 YTD Storm Restoration Costs Detail**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Qualifying Events Deferred Account | Capital | O&M - Not Deferrable | O&M - Deferrable Accumulation | Total O&M | Total |
| $16,931,565 | $1,788,868 | $2,228,076 | $8,000,000 | $27,159,641 | $28,948,509 |

# **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** **- First TMED-Exceeding Day**

**November 24, 2015**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **NUMBER** | **DATE** | **TIME** | **CKT** | **MPG** | **CAZ** | **EQT** | **CUST.OUT** |  **CUST.MIN**  |
| P00241429-1 | 11/24/2015 | 11:00:00 AM | BAK-01 | EAA | TV | SCB | 3,177 |  262,942  |
| P00241409-1 | 11/24/2015 | 11:03:57 AM | KEN-13 | EAA | TV | OCO | 257 |  86,271  |
| P00241710-1 | 11/24/2015 | 11:05:33 AM | KEN-13 | EAA | TV | OCO | 142 |  70,579  |
| P00242857-1 | 11/24/2015 | 11:12:07 AM | TRA-25 | ECE | TV | OCO | 437 |  229,439  |
| P00241485-1 | 11/24/2015 | 11:14:00 AM | TLN-0063 | ECE | TV | OCO | 4,767 |  379,372  |
| P00241450-1 | 11/24/2015 | 11:15:00 AM | SLA-15 | EAA | TV | OCO | 13 |  5,159  |
| P00242505-1 | 11/24/2015 | 11:15:00 AM | KIN-24 | ECE | TV | OCO | 1,555 |  1,532,064  |
| P00241484-1 | 11/24/2015 | 11:18:52 AM | PRI-23 | ECC | DU | USV | 1 |  181  |
| P00241486-1 | 11/24/2015 | 11:19:58 AM | MKI-16 | ECC | EF | USV | 1 |  116  |
| P00241704-1 | 11/24/2015 | 11:20:34 AM | SIL-16 | ECE | TV | OCO | - |  350,619  |
| P00241531-1 | 11/24/2015 | 11:46:00 AM | BHL-13 | ECE | TV | OCO | 23 |  39,655  |
| P00241615-1 | 11/24/2015 | 11:47:13 AM | SHE-26 | ECE | TV | OCO | 36 |  54,944  |
| P00241512-1 | 11/24/2015 | 11:48:30 AM | BEL-15 | EBJ | SO | DNO | 1 |  193  |
| P00241645-1 | 11/24/2015 | 11:51:00 AM | TLN-0109 | ECE | TV | OCO | 5,058 |  199,624  |
| P00242223-1 | 11/24/2015 | 11:51:00 AM | MIL-17 | ECE | TV | OCO | 1,738 |  2,385,233  |
| P00242223-3 | 11/24/2015 | 11:51:00 AM | MIL-17 | ECE | TV | OCO | 1,738 |  2,386,311  |
| P00243946-1 | 11/24/2015 | 11:56:00 AM | PMA-12 | ECE | TV | OCO | 799 |  1,508,650  |
| P00242123-1 | 11/24/2015 | 11:56:33 AM | PMA-12 | ECE | TV | OCO | 10 |  5,052  |
| P00244549-1 | 11/24/2015 | 11:56:33 AM | PMA-12 | ECE | TV | OCO | 38 |  26,406  |
| P00241587-1 | 11/24/2015 | 11:58:00 AM | WLK-15 | ECA | TV | OCO | 13 |  4,820  |
| P00241488-1 | 11/24/2015 | 12:00:31 PM | RPT-26 | ECD | OD | OSV | 4 |  182  |
| P00241683-1 | 11/24/2015 | 12:00:39 PM | MIL-17 | ECE | TV | OCO | - |  255,121  |
| P00241790-1 | 11/24/2015 | 12:02:56 PM | PMA-16 | ECE | TV | OCO | 774 |  666,313  |
| P00241603-1 | 11/24/2015 | 12:04:00 PM | FRA-12 | ECD | TV | OCO | 16 |  4,611  |
| **NUMBER** | **DATE** | **TIME** | **CKT** | **MPG** | **CAZ** | **EQT** | **CUST.OUT** |  **CUST.MIN**  |
| P00242617-1 | 11/24/2015 | 12:11:14 PM | CEK-14 | ECE | TV | OCO | 740 |  424,649  |
| P00241639-1 | 11/24/2015 | 12:12:00 PM | SKE-23 | ECE | TV | OCO | 439 |  22,294  |
| P00241629-1 | 11/24/2015 | 12:12:21 PM | CEK-14 | ECE | TV | OCO | 740 |  100,122  |
| P00242370-1 | 11/24/2015 | 12:17:23 PM | MCW-15 | ECE | TV | OCO | 563 |  629,453  |
| P00243684-1 | 11/24/2015 | 12:17:53 PM | TLN-0283 | ECE | TV | OCO | 4,244 |  4,080,627  |
| P00241653-1 | 11/24/2015 | 12:21:00 PM | MAN-15 | ECD | TV | OCO | 44 |  56,987  |
| P00243112-1 | 11/24/2015 | 12:23:49 PM | SKE-26 | ECE | TV | OCO | 687 |  822,506  |
| P00243710-1 | 11/24/2015 | 12:25:00 PM | LOL-23 | ECD | TV | OCO | 1,080 |  845,246  |
| P00241691-1 | 11/24/2015 | 12:30:39 PM | POU-15 | ECE | TV | OCO | 737 |  715,517  |
| P00241684-1 | 11/24/2015 | 12:31:15 PM | SIN-25 | ECD | TV | OCO | 779 |  30,745  |
| P00242328-1 | 11/24/2015 | 12:34:45 PM | TLN-0063 | ECE | TV | OCO | 729 |  253,978  |
| P00242260-1 | 11/24/2015 | 12:35:00 PM | POU-13 | ECE | TV | OCO | 15 |  29,471  |
| P00241706-1 | 11/24/2015 | 12:40:00 PM | SIL-13 | ECE | TV | OCO | 267 |  155,921  |
| P00241713-1 | 11/24/2015 | 12:42:00 PM | SWD-12 | ECE | TV | OCO | 193 |  105,456  |
| P00241774-1 | 11/24/2015 | 12:42:00 PM | POU-16 | ECE | TV | OCO | 23 |  32,267  |
| P00243855-1 | 11/24/2015 | 12:42:00 PM | SWD-12 | ECE | TV | OCO | 520 |  615,389  |
| P00241718-1 | 11/24/2015 | 12:43:00 PM | SWD-13 | ECE | TV | OCO | 7 |  3,206  |
| P00241720-1 | 11/24/2015 | 12:43:00 PM | FLD-15 | EAD | EF | OTR | 1 |  308  |
| P00241730-1 | 11/24/2015 | 12:45:00 PM | SIL-15 | ECE | TV | OCO | 1,410 |  607,214  |
| P00242836-1 | 11/24/2015 | 12:55:00 PM | LOL-21 | ECD | TV | OCO | 5,090 |  1,987,682  |
| P00241755-1 | 11/24/2015 | 12:55:55 PM | BRW-15 | EAC | TV | OFU | 3 |  1,606  |
| P00241758-1 | 11/24/2015 | 12:56:11 PM | RPT-17 | ECD | TV | OCO | 88 |  107,463  |
| P00242361-1 | 11/24/2015 | 12:57:02 PM | SWD-12 | ECE | TV | OCO | 2 |  4,899  |
| P00243184-1 | 11/24/2015 | 12:57:31 PM | TLN-0089 | ECE | TV | OCO | 2,755 |  1,898,414  |
| P00243761-1 | 11/24/2015 | 12:58:13 PM | EPO-13 | ECD | TV | OCO | 1,423 |  1,309,966  |
| **NUMBER** | **DATE** | **TIME** | **CKT** | **MPG** | **CAZ** | **EQT** | **CUST.OUT** |  **CUST.MIN**  |
| P00243919-1 | 11/24/2015 | 12:58:13 PM | EPO-13 | ECD | TV | OCO | 16 |  23,457  |
| P00242654-1 | 11/24/2015 | 12:58:28 PM | PGA-12 | ECE | TV | OCO | 850 |  776,801  |
| P00241674-1 | 11/24/2015 | 12:59:11 PM | LWS-13 | EBJ | SO | DNO | 1 |  66  |
| P00241821-1 | 11/24/2015 | 1:00:00 PM | PMA-15 | ECE | TV | OCO | 1,265 |  1,190,219  |
| P00243901-1 | 11/24/2015 | 1:03:00 PM | MIL-16 | ECE | TV | OTR | 10 |  5,128  |
| P00241862-1 | 11/24/2015 | 1:04:00 PM | TLN-0075 | ECD | TV | OCO | - |  122,240  |
| P00242192-1 | 11/24/2015 | 1:12:53 PM | MIL-22 | ECE | TV | OCO | 679 |  571,978  |
| P00241887-1 | 11/24/2015 | 1:13:00 PM | HAP-13 | EAA | TV | OCO | 22 |  6,597  |
| P00242410-1 | 11/24/2015 | 1:14:00 PM | SKE-23 | ECE | TV | OCO | 111 |  68,807  |
| P00230617-1 | 11/24/2015 | 1:15:13 PM | KIN-21 | ECE | SO | UPC | 6 |  495  |
| P00241882-1 | 11/24/2015 | 1:15:36 PM | BRW-13 | EAC | TV | OHR | 1,490 |  93,292  |
| P00241894-1 | 11/24/2015 | 1:16:00 PM | RPT-16 | ECD | TV | OCO | 11 |  17,896  |
| P00241970-1 | 11/24/2015 | 1:16:44 PM | SIN-25 | ECD | TV | OCO | 481 |  16,282  |
| P00241929-1 | 11/24/2015 | 1:17:00 PM | POU-15 | ECE | TV | OCO | 201 |  270,058  |
| P00243953-1 | 11/24/2015 | 1:18:56 PM | PMA-13 | ECE | TV | OCO | 12 |  10,297  |
| P00241942-1 | 11/24/2015 | 1:18:59 PM | SIL-17 | ECE | TV | OCO | 851 |  127,726  |
| P00243910-1 | 11/24/2015 | 1:20:09 PM | PMA-16 | ECE | TV | OCO | 62 |  72,511  |
| P00242018-1 | 11/24/2015 | 1:26:05 PM | CHI-16 | ECD | TV | OCO | 5,982 |  5,136,534  |
| P00243609-1 | 11/24/2015 | 1:27:35 PM | SIL-15 | ECE | TV | OCO | - |  195,146  |
| P00242037-1 | 11/24/2015 | 1:31:45 PM | SWD-13 | ECE | TV | OCN | 379 |  143,016  |
| P00243676-1 | 11/24/2015 | 1:32:44 PM | TRA-23 | ECE | TV | OCO | 40 |  75,490  |
| P00243684-2 | 11/24/2015 | 1:32:45 PM | TLN-0283 | ECE | TV | OCO | - |  2,176  |
| P00244054-1 | 11/24/2015 | 1:32:45 PM | WIN-12 | ECE | TV | OCO | - |  127,237  |
| P00244193-1 | 11/24/2015 | 1:33:40 PM | WIN-12 | ECE | TV | OCO | 38 |  54,945  |
| P00243748-1 | 11/24/2015 | 1:43:00 PM | FNW-16 | ECD | TV | OCO | 553 |  614,230  |
| **NUMBER** | **DATE** | **TIME** | **CKT** | **MPG** | **CAZ** | **EQT** | **CUST.OUT** |  **CUST.MIN**  |
| P00242075-1 | 11/24/2015 | 1:47:02 PM | EPO-12 | ECD | TV | OCO | 1,469 |  114,387  |
| P00241166-2 | 11/24/2015 | 1:47:23 PM | PGA-13 | ECE | TV | OSV | 3 |  5,927  |
| P00242079-1 | 11/24/2015 | 1:50:35 PM | SHE-26 | ECE | TV | OTF | 4 |  7,125  |
| P00242115-1 | 11/24/2015 | 1:51:42 PM | LOL-21 | ECD | TV | OCO | 568 |  37,251  |
| P00242113-1 | 11/24/2015 | 1:55:00 PM | FRA-15 | ECD | TV | OCO | 55 |  78,866  |
| P00242126-1 | 11/24/2015 | 1:57:48 PM | HAN-15 | EAA | TV | SCB | 1,930 |  87,782  |
| P00243744-1 | 11/24/2015 | 1:58:16 PM | PMA-12 | ECE | TV | OCO | 30 |  30,033  |
| P00242138-1 | 11/24/2015 | 2:03:00 PM | SWD-11 | ECE | TV | OCO | 2,499 |  623,088  |
| P00242141-1 | 11/24/2015 | 2:03:00 PM | SWD-14 | ECE | TV | OCO | 424 |  89,422  |
| P00242236-1 | 11/24/2015 | 2:03:03 PM | KIN-22 | ECE | TV | OCO | 12 |  10,912  |
| P00244553-1 | 11/24/2015 | 2:08:02 PM | PMA-12 | ECE | TV | OCO | 35 |  58,138  |
| P00242156-1 | 11/24/2015 | 2:10:30 PM | FRA-15 | ECD | TV | OCO | 21 |  23,032  |
| P00243974-1 | 11/24/2015 | 2:10:40 PM | SKE-26 | ECE | TV | OCO | 41 |  71,030  |
| P00243931-1 | 11/24/2015 | 2:10:57 PM | MUR-13 | ECE | TV | OCO | 30 |  42,463  |
| P00242173-1 | 11/24/2015 | 2:12:39 PM | MAN-13 | ECD | TV | OCO | 16 |  7,839  |
| P00242207-1 | 11/24/2015 | 2:21:45 PM | BHL-12 | ECE | TV | OCO | 19 |  6,761  |
| P00242247-1 | 11/24/2015 | 2:22:00 PM | BHL-12 | ECE | TV | OCO | 105 |  37,279  |
| P00242299-1 | 11/24/2015 | 2:25:00 PM | BRW-16 | EAC | TV | OCO | 12 |  2,620  |
| P00242369-1 | 11/24/2015 | 2:25:00 PM | SIN-25 | ECD | TV | OCO | 1,353 |  430,939  |
| P00243802-1 | 11/24/2015 | 2:26:00 PM | PMA-13 | ECE | TV | OCO | 101 |  109,056  |
| P00242982-1 | 11/24/2015 | 2:27:33 PM | PMA-13 | ECE | TV | OCO | 755 |  368,169  |
| P00242252-1 | 11/24/2015 | 2:32:00 PM | POU-13 | ECE | TV | OCO | 16 |  26,119  |
| P00242266-1 | 11/24/2015 | 2:35:00 PM | SHE-16 | ECE | TV | OCO | 811 |  216,390  |
| P00242264-1 | 11/24/2015 | 2:37:00 PM | MAN-12 | ECD | TV | OCO | 113 |  204,315  |
| P00243837-1 | 11/24/2015 | 2:39:06 PM | FRA-16 | ECD | TV | OCO | 510 |  490,105  |
| P00242560-1 | 11/24/2015 | 2:39:21 PM | FNW-16 | ECD | TV | OCO | 1,195 |  154,355  |
| **NUMBER** | **DATE** | **TIME** | **CKT** | **MPG** | **CAZ** | **EQT** | **CUST.OUT** |  **CUST.MIN**  |
| P00242290-1 | 11/24/2015 | 2:44:00 PM | RPT-23 | ECD | TV | OCO | 9 |  19,254  |
| P00243191-1 | 11/24/2015 | 2:47:00 PM | FNW-17 | ECD | TV | OCO | 2,437 |  681,355  |
| P00242319-1 | 11/24/2015 | 2:49:07 PM | LUH-14 | ECC | EF | OSV | 2 |  623  |
| P00243990-1 | 11/24/2015 | 2:58:29 PM | WIN-13 | ECE | TV | OCO | - |  58,472  |
| P00242413-1 | 11/24/2015 | 3:07:00 PM | TRA-22 | ECE | TV | OCO | 1,624 |  1,636,926  |
| P00242401-1 | 11/24/2015 | 3:12:50 PM | ASB-13 | EBJ | TV | OCO | 84 |  25,813  |
| P00242408-1 | 11/24/2015 | 3:14:05 PM | MUR-17 | ECE | TV | OCO | 1,680 |  619,613  |
| P00242415-1 | 11/24/2015 | 3:16:00 PM | RPT-17 | ECD | TV | OSV | 1 |  2,310  |
| P00243853-1 | 11/24/2015 | 3:25:00 PM | MIL-23 | ECE | TV | OCO | - |  49,332  |
| P00243995-1 | 11/24/2015 | 3:26:00 PM | PGA-13 | ECE | TV | OCO | 8 |  11,895  |
| P00242812-1 | 11/24/2015 | 3:27:00 PM | MIL-23 | ECE | TV | OCO | 310 |  196,390  |
| P00242480-1 | 11/24/2015 | 3:28:06 PM | KIN-23 | ECE | TV | OCO | 160 |  61,109  |
| P00242457-1 | 11/24/2015 | 3:28:11 PM | BRE-11 | ECD | TV | OCO | 40 |  50,018  |
| P00242469-1 | 11/24/2015 | 3:29:18 PM | SIN-24 | ECD | TV | OCO | 28 |  12,934  |
| P00242475-1 | 11/24/2015 | 3:29:47 PM | SIN-24 | ECD | TV | OCO | 44 |  20,448  |
| P00242786-1 | 11/24/2015 | 3:30:00 PM | KIN-21 | ECE | TV | OCO | 130 |  147,212  |
| P00243925-1 | 11/24/2015 | 3:30:59 PM | MIL-23 | ECE | TV | OCO | 6 |  6,233  |
| P00242512-1 | 11/24/2015 | 3:31:46 PM | MHT-15 | EBJ | TF | SCB | 1,618 |  120,973  |
| P00242515-1 | 11/24/2015 | 3:33:00 PM | TRA-23 | ECE | TV | OTR | 2 |  2,075  |
| 11213398 | 11/24/2015 | 3:35:56 PM | FWD-16 | EBJ | EF | USV | 1 |  173  |
| P00242532-1 | 11/24/2015 | 3:38:37 PM | MIL-23 | ECE | TV | OCO | 2 |  659  |
| P00244362-1 | 11/24/2015 | 3:39:00 PM | CHR-22 | ECE | EF | OFU | 11 |  20,847  |
| P00242611-1 | 11/24/2015 | 3:40:29 PM | POU-15 | ECE | TV | OCO | 67 |  72,998  |
| P00244022-1 | 11/24/2015 | 3:44:36 PM | EPO-15 | ECD | TV | OTF | 6 |  5,334  |
| P00242606-1 | 11/24/2015 | 3:48:31 PM | SUM-21 | EAC | TV | OTF | 3 |  580  |
| **NUMBER** | **DATE** | **TIME** | **CKT** | **MPG** | **CAZ** | **EQT** | **CUST.OUT** |  **CUST.MIN**  |
| P00243167-1 | 11/24/2015 | 3:50:00 PM | TLN-0089 | ECE | TV | OCO | 1,736 |  80,464  |
| P00243175-1 | 11/24/2015 | 3:50:00 PM | TLN-0089 | ECE | TV | OCO | 109 |  3,172  |
| P00243176-1 | 11/24/2015 | 3:50:00 PM | TLN-0283 | ECE | TV | OCO | 2,603 |  124,249  |
| P00243183-1 | 11/24/2015 | 3:50:00 PM | TLN-0136 | ECE | TV | OCO | 498 |  10,740  |
| P00243189-1 | 11/24/2015 | 3:50:00 PM | TLN-0089 | ECE | TV | OCO | 1,030 |  36,290  |
| P00242681-1 | 11/24/2015 | 3:53:00 PM | SKE-22 | ECE | TV | OCO | 13 |  15,816  |
| P00244018-1 | 11/24/2015 | 3:53:39 PM | CHR-23 | ECE | TV | OCO | 143 |  128,788  |
| P00242854-1 | 11/24/2015 | 3:56:23 PM | SME-13 | EBE | TV | OCO | 133 |  10,746  |
| P00243067-1 | 11/24/2015 | 3:58:19 PM | VAS-12 | EBL | TV | OCO | 38 |  13,363  |
| P00243008-1 | 11/24/2015 | 3:59:00 PM | SKE-22 | ECE | TV | OCO | 77 |  50,956  |
| P00242990-1 | 11/24/2015 | 4:01:00 PM | FNW-15 | ECD | TV | OCO | 6 |  10,698  |
| P00244010-1 | 11/24/2015 | 4:08:00 PM | CHR-23 | ECE | TV | OCO | 1 |  1,776  |
| P00243088-1 | 11/24/2015 | 4:08:55 PM | SIN-24 | ECD | TV | OCO | 3,522 |  439,047  |
| P00243118-1 | 11/24/2015 | 4:11:25 PM | SKE-22 | ECE | TV | OTF | 4 |  7,137  |
| P00243126-1 | 11/24/2015 | 4:12:00 PM | RPT-15 | ECD | TV | OCO | 2 |  4,199  |
| P00243955-1 | 11/24/2015 | 4:12:58 PM | PMA-15 | ECE | TV | OCO | 66 |  26,000  |
| P00243955-3 | 11/24/2015 | 4:12:58 PM | PMA-15 | ECE | TV | OCO | 66 |  26,000  |
| P00243858-1 | 11/24/2015 | 4:13:00 PM | VAS-12 | EBL | TV | OCO | 171 |  95,045  |
| P00243166-1 | 11/24/2015 | 4:20:33 PM | HAP-16 | EAA | TV | OTF | 1 |  97  |
| P00242575-1 | 11/24/2015 | 4:22:48 PM | EPO-15 | ECD | TV | OTF | 3 |  2,549  |
| P00243185-1 | 11/24/2015 | 4:25:00 PM | LAT-13 | EBJ | TV | OCO | 14 |  6,517  |
| P00243190-1 | 11/24/2015 | 4:27:00 PM | FRA-16 | ECD | TV | OCO | 53 |  54,988  |
| P00243206-1 | 11/24/2015 | 4:33:00 PM | SIN-23 | ECD | TV | OSV | 1 |  2,033  |
| P00243298-1 | 11/24/2015 | 4:33:00 PM | VAS-13 | EBL | TV | OCO | 31 |  22,027  |
| P00243211-1 | 11/24/2015 | 4:35:00 PM | MAN-15 | ECD | TV | OTF | 8 |  15,157  |
| P00244361-1 | 11/24/2015 | 4:41:43 PM | CHR-22 | ECE | TV | OCO | - |  158,142  |
| **NUMBER** | **DATE** | **TIME** | **CKT** | **MPG** | **CAZ** | **EQT** | **CUST.OUT** |  **CUST.MIN**  |
| P00243246-1 | 11/24/2015 | 4:46:00 PM | VAS-23 | EBL | TV | OCO | 107 |  53,507  |
| P00243248-1 | 11/24/2015 | 4:47:11 PM | CHR-22 | ECE | TV | OCO | 57 |  78,659  |
| P00243276-1 | 11/24/2015 | 4:58:00 PM | MAN-13 | ECD | TV | OCO | 1,010 |  228,126  |
| P00243260-1 | 11/24/2015 | 4:59:21 PM | BRE-14 | ECD | TV | OTF | 9 |  13,092  |
| P00243283-1 | 11/24/2015 | 5:00:27 PM | SHE-26 | ECE | TV | OCO | 145 |  162,777  |
| P00243269-1 | 11/24/2015 | 5:01:00 PM | SIL-13 | ECE | TV | OCO | 7 |  8,678  |
| P00243268-1 | 11/24/2015 | 5:01:09 PM | RPT-26 | ECD | TV | OTF | 4 |  6,196  |
| P00243299-1 | 11/24/2015 | 5:07:28 PM | CHI-13 | ECD | TV | OCO | 9 |  11,270  |
| P00243314-1 | 11/24/2015 | 5:11:44 PM | HAP-13 | EAA | TV | OTF | 3 |  318  |
| P00243317-1 | 11/24/2015 | 5:13:00 PM | CHI-13 | ECD | TV | OCO | 16 |  31,778  |
| P00243330-1 | 11/24/2015 | 5:14:00 PM | SIN-25 | ECD | TV | OCO | 574 |  35,416  |
| P00243558-1 | 11/24/2015 | 5:14:12 PM | FNW-16 | ECD | TV | OCO | 1,195 |  163,297  |
| P00243327-1 | 11/24/2015 | 5:18:00 PM | SKE-22 | ECE | TV | OCO | 34 |  30,278  |
| P00243362-1 | 11/24/2015 | 5:46:54 PM | CLV-16 | EAD | TV | OFU | 378 |  30,876  |
| P00243937-1 | 11/24/2015 | 5:49:00 PM | WIN-13 | ECE | TV | OCO | 26 |  33,418  |
| P00243375-1 | 11/24/2015 | 5:56:37 PM | BRI-17 | EAA | TV | OHR | 530 |  36,809  |
| P00243394-1 | 11/24/2015 | 6:02:00 PM | SIL-16 | ECE | TV | OCO | 71 |  87,870  |
| P00243404-1 | 11/24/2015 | 6:04:00 PM | STA-13 | EBJ | UN | UTR | 5 |  1,764  |
| P00243425-1 | 11/24/2015 | 6:13:00 PM | BRE-21 | ECD | TV | OSV | 38 |  4,642  |
| P00243427-1 | 11/24/2015 | 6:14:00 PM | FRA-12 | ECD | TV | OCO | 40 |  47,163  |
| P00243428-1 | 11/24/2015 | 6:14:34 PM | FNW-17 | ECD | TV | OCO | 10 |  22,620  |
| P00243431-1 | 11/24/2015 | 6:17:33 PM | BRW-15 | EAC | TV | OPO | 1 |  188  |
| P00243442-1 | 11/24/2015 | 6:21:33 PM | BHL-15 | ECE | TV | OCO | 124 |  48,952  |
| P00244162-1 | 11/24/2015 | 6:26:13 PM | EPO-15 | ECD | TV | OCO | 1 |  1,535  |
| P00243458-1 | 11/24/2015 | 6:28:00 PM | FNW-13 | ECD | TV | OCO | 123 |  126,563  |
| **NUMBER** | **DATE** | **TIME** | **CKT** | **MPG** | **CAZ** | **EQT** | **CUST.OUT** |  **CUST.MIN**  |
| P00243455-1 | 11/24/2015 | 6:28:54 PM | KEN-12 | EAA | OD | OTF | 1 |  83  |
| P00243489-1 | 11/24/2015 | 6:29:50 PM | WIN-13 | ECE | TV | OCO | 444 |  483,635  |
| P00243479-1 | 11/24/2015 | 6:31:00 PM | EPO-16 | ECD | TV | OCO | 20 |  27,036  |
| P00243544-1 | 11/24/2015 | 6:37:45 PM | SUM-21 | EAC | TV | OFU | 32 |  4,596  |
| P00244017-1 | 11/24/2015 | 6:38:00 PM | CHR-23 | ECE | TV | OCO | 3 |  3,618  |
| P00243560-1 | 11/24/2015 | 6:40:03 PM | HAN-15 | EAA | EF | OFC | 1 |  112  |
| P00243857-1 | 11/24/2015 | 6:40:19 PM | VAS-12 | EBL | TV | OCO | 37 |  19,495  |
| P00243593-1 | 11/24/2015 | 6:42:49 PM | HAP-16 | EAA | EF | OTF | 2 |  213  |
| P00243599-1 | 11/24/2015 | 6:44:15 PM | BRW-16 | EAC | TV | OSV | 3 |  470  |
| P00244512-1 | 11/24/2015 | 6:46:08 PM | CHR-22 | ECE | TV | OCO | 41 |  51,629  |
| P00243611-1 | 11/24/2015 | 6:50:13 PM | SIL-16 | ECE | TV | OCO | 8 |  6,431  |
| P00243630-1 | 11/24/2015 | 6:56:19 PM | VIS-22 | EAA | EF | OTF | 7 |  1,127  |
| P00243660-1 | 11/24/2015 | 6:59:00 PM | RPT-23 | ECD | TV | OCO | 168 |  99,817  |
| P00243647-1 | 11/24/2015 | 7:03:59 PM | BRW-16 | EAC | TV | UTC | 7 |  941  |
| P00243652-1 | 11/24/2015 | 7:04:00 PM | LUH-14 | ECC | TV | OCO | 61 |  29,451  |
| P00243651-1 | 11/24/2015 | 7:05:00 PM | BRW-16 | EAC | TV | OCO | 411 |  214,590  |
| P00243659-1 | 11/24/2015 | 7:12:25 PM | BHS-13 | EAA | EF | USV | 1 |  249  |
| P00243671-1 | 11/24/2015 | 7:20:39 PM | POU-13 | ECE | TV | OCO | 23 |  23,813  |
| P00243678-1 | 11/24/2015 | 7:25:54 PM | SUM-21 | EAC | TV | OSV | 1 |  215  |
| P00243679-1 | 11/24/2015 | 7:26:00 PM | PLG-16 | ECC | TV | OSV | 25 |  7,590  |
| P00243681-1 | 11/24/2015 | 7:26:45 PM | FNW-17 | ECD | TV | OTF | 4 |  7,201  |
| P00243698-1 | 11/24/2015 | 7:27:00 PM | SIL-15 | ECE | TV | OCO | 360 |  698,157  |
| P00243683-1 | 11/24/2015 | 7:27:15 PM | VIS-23 | EAA | EF | OTF | 2 |  232  |
| P00243689-1 | 11/24/2015 | 7:32:00 PM | SWD-14 | ECE | TV | OSV | 38 |  4,164  |
| P00241502-2 | 11/24/2015 | 7:45:40 PM | NRU-27 | EBE | EF | UPT | 22 |  5,084  |
| P00243708-1 | 11/24/2015 | 7:47:00 PM | MOT-15 | ECC | EF | OCO | 27 |  15,869  |
| **NUMBER** | **DATE** | **TIME** | **CKT** | **MPG** | **CAZ** | **EQT** | **CUST.OUT** |  **CUST.MIN**  |
| P00244172-1 | 11/24/2015 | 7:58:00 PM | SIN-22 | ECD | TV | OCO | 7 |  8,693  |
| P00243753-1 | 11/24/2015 | 7:58:12 PM | TRA-25 | ECE | TV | OCO | 81 |  79,080  |
| P00243779-1 | 11/24/2015 | 8:09:00 PM | LAU-14 | EAA | UN | OSV | 3 |  188  |
| P00243784-1 | 11/24/2015 | 8:15:00 PM | SWD-14 | ECE | TV | OIN | 1 |  996  |
| P00243786-1 | 11/24/2015 | 8:18:14 PM | CPV-13 | EAD | TV | OCO | 51 |  13,047  |
| P00244108-1 | 11/24/2015 | 8:25:27 PM | SIL-15 | ECE | TV | OCO | - |  1,019,427  |
| P00243800-1 | 11/24/2015 | 8:35:27 PM | PMA-13 | ECE | TV | OIN | - |  1,142  |
| P00244219-1 | 11/24/2015 | 8:39:21 PM | FNW-16 | ECD | TV | OCO | 7 |  9,651  |
| P00243810-1 | 11/24/2015 | 8:50:43 PM | CLV-16 | EAD | TV | OFU | 20 |  461  |
| P00243811-1 | 11/24/2015 | 8:54:28 PM | BHL-15 | ECE | TV | OCO | 128 |  23,921  |
| P00243815-1 | 11/24/2015 | 9:00:00 PM | LGY-16 | EAD | TV | OCO | 3 |  950  |
| P00243817-1 | 11/24/2015 | 9:02:28 PM | TAN-16 | ECC | TV | OFU | 1 |  101  |
| P00243933-1 | 11/24/2015 | 9:28:48 PM | SIL-15 | ECE | TV | OCO | 340 |  92,389  |
| P00243880-1 | 11/24/2015 | 9:34:58 PM | SHE-16 | ECE | TV | OCO | 165 |  129,992  |
| P00243877-1 | 11/24/2015 | 9:58:37 PM | CEK-14 | ECE | TV | OCO | 740 |  627,520  |
| P00243890-1 | 11/24/2015 | 10:15:00 PM | SIN-23 | ECD | TV | OCO | 1 |  1,464  |
| P00242413-2 | 11/24/2015 | 10:30:42 PM | TRA-22 | ECE | TV | OCO | - |  5,640  |
| P00243924-1 | 11/24/2015 | 10:33:47 PM | KIN-22 | ECE | TV | OCO | 16 |  6,288  |
| P00243949-1 | 11/24/2015 | 10:37:31 PM | PMA-13 | ECE | TV | OCN | 164 |  132,050  |
| P00243442-2 | 11/24/2015 | 10:44:08 PM | BHL-15 | ECE | TV | OCO | - |  23,394  |
| P00243920-1 | 11/24/2015 | 11:06:20 PM | VAS-13 | EBL | TV | OCO | 9 |  2,098  |
| P00243903-1 | 11/24/2015 | 11:19:00 PM | FRA-13 | ECD | TV | OCO | 105 |  51,758  |
| P00243913-1 | 11/24/2015 | 11:41:02 PM | MOT-14 | ECC | UN | OTF | 2 |  99  |
| P00243915-1 | 11/24/2015 | 11:50:49 PM | MUR-13 | ECE | TV | OCO | 11 |  8,432  |

### **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**



Contributed photo / Kurt Schnuit

*By Kitsap Sun Staff*

*Nov. 24, 2015*

BREMERTON — The second destructive wind storm in a week swept through Kitsap County on Tuesday, leaving thousands of people without electricity.

Kitsap County was the hardest-hit area of Western Washington.

Reported wind speeds were not especially high — gusts of 45-50 mph, sustained winds of 20-30 mph — but they packed a punch. As of 5 p.m., about 35,000 Puget Sound Energy customers in Kitsap were without power.

Trees are used to them coming from the south, according to National Weather Service meteorologist Jay Neher, and these were out of the northeast.

The National Weather Service in Seattle issued a wind advisory for the Kitsap Peninsula that remains in effect through 6 a.m. Wednesday.

In addition to pulling down power lines, fallen trees caused major headaches for drivers. Dozens of roads were blocked by windblown trees or branches, particularly in North Kitsap and Bainbridge Island.

One van was crushed by a big fir tree around 2 p.m. on Highway 305 near the Suquamish Clearwater Casino Resort. There were no injuries, although the highway was down to one lane before the van could be towed, Washington State Patrol Trooper Russ Winger said.

Winds are expected to die down starting Wednesday. The National Weather Service forecasts clear, cold conditions with high temperatures in the low 40s and overnight lows in the 20s and 30s.

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 [↑](#footnote-ref-3)