

**2015**

**Qualifying Events Report**

**December 6, 2015 Event**

Filed on March 4, 2016

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# **Event Description**

### **Event Date and Time**

Start: 12/06/2015, 19:00

End: 12/08/2015, 11:30

### **Event Type**

Wind

**Service Areas Significantly Affected**

Skagit County and Thurston County

### **Number of Customers Affected**

System wide, approximately 38,565 customers were without power during the course of this event.

### **Summary of System Impacts**

|  |  |
| --- | --- |
| **Total Number of Outages** | **159** |

|  |  |
| --- | --- |
| Transmission Lines Affected | 0 |
| Substations Offline | 5 |

### **Mobilization Summary**

####  Operating Bases Placed In Emergency Status

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Base** | **Date Opened** | **Time Opened** | **Date Closed** | **Time Closed** |
| Whatcom/Skagit/Island | 12/06/2015 | 21:30 | 12/07/2015 | 15:00 |
| North King | N/A |  |  |  |
| South King | N/A |  |  |  |
| Pierce | N/A |  |  |  |
| Thurston | 12/06/2015 | 21:30 | 12/07/2015 | 19:30 |
| Kitsap | N/A |  |  |  |
| Vashon | N/A |  |  |  |
| Kittitas | N/A |  |  |  |

####  Emergency Coordination Center (ECC)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ECC** | **Date Opened** | **Time Opened** | **Date Closed** | **Time Closed** |
|  | 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) |
| 12/06/2015, 19:00 to 12/08/2015, 11:30 | 10,079,411 | 1,114,074 | 9.1 |

### **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 | $ - |
| 12/06/2015 | 8.2 | $ - |

# **Event Restoration – Cost Summary**

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Event Date  | Qualified Events Deferred Account | Capital Costs | O&M - Not Deferrable | O&M - Deferrable Accumulation | Total O&M (*excluding Qualifying Events Deferred Account)* | 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 | $ 6,995,100 | $ 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 |
| 12/06/2015 | $ 832,627  | $ 38,334  | $ 69,966  | $-  | $ 69,966 |  $ 940,927  |

(r) Revised

### **2015 YTD Storm Restoration Costs Detail the First Six Events**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Qualifying Events Deferred Account | Capital | O&M - Not Deferrable | O&M - Deferrable Accumulation | Total O&M (*excluding Qualifying Events Deferred Account)* | Total |
| $ 17,764,192 | $ 1,827,202 | $ 2,298,042 | $ 8,000,000 | $10,298,042 | $29,889,437 |

# **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**

**December 6, 2015**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **NUMBER** | **DATE** | **TIME** | **CKT** | **MPG** | **CAZ** | **EQT** |  **CUST.OUT**  |  **CUST.MIN**  |
| P00247822-1 | 12/6/2015 | 12:54:32 AM | GRI-13 | ECC | TV | OCO |  124  |  38,444  |
| P00247824-1 | 12/6/2015 | 3:49:21 AM | ALG-15 | EAC | TF | OCO |  2,778  |  209,263  |
| P00247840-1 | 12/6/2015 | 3:57:40 AM | SHE-26 | ECE | EF | OTF |  10  |  923  |
| P00247841-1 | 12/6/2015 | 5:55:38 AM | WIN-13 | ECE | EF | UEL |  141  |  17,073  |
| P00247847-1 | 12/6/2015 | 6:40:41 AM | GRI-13 | ECC | EF | OTF |  1  |  122  |
| P00247850-1 | 12/6/2015 | 7:29:00 AM | FNW-15 | ECD | EF | OTR |  1,901  |  133,953  |
| P00247858-1 | 12/6/2015 | 8:10:17 AM | KAP-15 | ECA | UN | OTF |  1  |  73  |
| P00247862-1 | 12/6/2015 | 8:31:00 AM | GOO-17 | EBF | EF | UTR |  2  |  1,210  |
| P00247865-1 | 12/6/2015 | 8:55:10 AM | RAI-11 | ECC | TV | OTF |  1  |  64  |
| P00247868-1 | 12/6/2015 | 9:35:43 AM | FNW-16 | ECD | TV | OCO |  1,447  |  34,005  |
| P00247871-1 | 12/6/2015 | 9:41:37 AM | NLM-16 | EAC | TV | OTF |  3  |  319  |
| P00247874-1 | 12/6/2015 | 10:12:00 AM | RED-15 | EBD | SO | UPT |  1  |  421  |
| P00247890-1 | 12/6/2015 | 11:32:20 AM | TLN-0159 | EBF | TV | OCO |  868  |  9,924  |
| P00247892-1 | 12/6/2015 | 11:43:51 AM | PET-12 | EAC | BA | OTF |  1  |  41  |
| P00247897-1 | 12/6/2015 | 11:54:51 AM | LOL-25 | ECD | TF | OCO |  2,181  |  73,899  |
| P00247906-1 | 12/6/2015 | 1:20:40 PM | CHR-23 | ECE | UN | OFU |  143  |  21,140  |
| P00247923-1 | 12/6/2015 | 3:32:25 PM | SIL-16 | ECE | TV | OFU |  7  |  983  |
| P00247912-1 | 12/6/2015 | 3:33:57 PM | SPI-16 | EBD | EF | OPO |  37  |  1,273  |
| P00247920-1 | 12/6/2015 | 3:51:00 PM | CHR-23 | ECE | EF | OTR |  5  |  998  |
| P00247927-1 | 12/6/2015 | 4:40:57 PM | SCH-16 | EAA | UN | OFU |  16  |  843  |
| P00247928-1 | 12/6/2015 | 4:41:18 PM | BOW-26 | EBJ | EF | OSV |  1  |  113  |
| P00247929-1 | 12/6/2015 | 4:56:33 PM | GRV-15 | ECA | TV | OTF |  2  |  234  |
| P00247930-1 | 12/6/2015 | 4:58:19 PM | FAB-15 | EAD | TV | OFU |  10  |  678  |
| **NUMBER** | **DATE** | **TIME** | **CKT** | **MPG** | **CAZ** | **EQT** |  **CUST.OUT**  |  **CUST.MIN**  |
| P00247899-2 | 12/6/2015 | 5:09:04 PM | WAY-13 | EBD | EF | OCR |  15  |  2,026  |
| P00247935-1 | 12/6/2015 | 5:30:33 PM | NHL-15 | EBD | EF | USV |  1  |  223  |
| P00247936-1 | 12/6/2015 | 5:34:24 PM | ZEN-23 | EBJ | TV | OSV |  1  |  147  |
| P00247938-1 | 12/6/2015 | 5:39:10 PM | HAZ-16 | EBE | EF | UPT |  485  |  117,781  |
| P00247939-1 | 12/6/2015 | 5:41:18 PM | ALG-15 | EAC | EF | OTF |  3  |  138  |
| P00247941-1 | 12/6/2015 | 5:55:12 PM | FNW-15 | ECD | FI | OSV |  1  |  74  |
| P00247942-1 | 12/6/2015 | 6:01:49 PM | LAU-11 | EAA | TV | OTF |  3  |  93  |
| P00247946-1 | 12/6/2015 | 6:13:24 PM | PIN-27 | EBD | TV | OCO |  1  |  425  |
| P00247947-1 | 12/6/2015 | 6:20:00 PM | PET-13 | EAC | TV | OCO |  4  |  1,570  |
| P00247952-1 | 12/6/2015 | 7:08:00 PM | BRI-14 | EAA | EF | OCO |  12  |  12,715  |
| P00248063-1 | 12/6/2015 | 7:09:00 PM | SUM-21 | EAC | TV | OCO |  32  |  18,043  |
| P00247955-1 | 12/6/2015 | 7:11:12 PM | HKX-13 | EAC | EF | OTF |  2  |  763  |
| P00247957-1 | 12/6/2015 | 7:13:00 PM | FRG-25 | ECC | TV | OCR |  52  |  25,070  |
| P00247973-1 | 12/6/2015 | 7:14:00 PM | LYN-17 | EAA | TV | OPO |  124  |  53,241  |
| P00247971-1 | 12/6/2015 | 7:15:52 PM | RAI-12 | ECC | TF | OCO |  1,806  |  175,076  |
| P00247966-1 | 12/6/2015 | 7:16:17 PM | BLU-13 | ECC | TV | OCO |  14  |  11,138  |
| P00247985-1 | 12/6/2015 | 7:17:00 PM | LLS-17 | EAA | TF | OCO |  2,685  |  1,305,320  |
| P00247980-1 | 12/6/2015 | 7:19:38 PM | LYN-24 | EAA | TV | OCO |  33  |  18,730  |
| P00247984-1 | 12/6/2015 | 7:20:18 PM | FRG-23 | ECC | TV | OCO |  3  |  2,732  |
| P00247988-1 | 12/6/2015 | 7:21:00 PM | WOB-23 | EAA | OD | OCO |  4  |  4,368  |
| P00248043-1 | 12/6/2015 | 7:24:00 PM | VWY-15 | EAA | TV | OCO |  486  |  147,757  |
| P00248005-1 | 12/6/2015 | 7:26:00 PM | FRA-13 | ECD | TV | OCO |  95  |  10,080  |
| P00248022-1 | 12/6/2015 | 7:29:30 PM | JHO-16 | ECC | TV | OCO |  49  |  31,241  |
| P00248406-1 | 12/6/2015 | 7:30:00 PM | SCH-15 | EAA | TV | OCO |  62  |  45,448  |
| P00248014-1 | 12/6/2015 | 7:30:54 PM | BRI-15 | EAA | EF | OFU |  1  |  188  |
| **NUMBER** | **DATE** | **TIME** | **CKT** | **MPG** | **CAZ** | **EQT** |  **CUST.OUT**  |  **CUST.MIN**  |
| P00248508-1 | 12/6/2015 | 7:31:37 PM | RAI-13 | ECC | TV | OCO |  11  |  6,395  |
| P00248023-1 | 12/6/2015 | 7:33:00 PM | LUH-17 | ECC | TV | OCO |  464  |  328,494  |
| P00248025-1 | 12/6/2015 | 7:35:15 PM | SWA-12 | EAD | TV | OFU |  21  |  2,333  |
| P00248394-1 | 12/6/2015 | 7:36:00 PM | LYN-24 | EAA | UN | OCO |  213  |  187,476  |
| P00248032-1 | 12/6/2015 | 7:37:27 PM | CRE-12 | EAD | TV | OCO |  24  |  11,506  |
| P00248039-1 | 12/6/2015 | 7:39:31 PM | GRI-13 | ECC | TV | OTR |  3  |  2,880  |
| P00248044-1 | 12/6/2015 | 7:40:00 PM | RAI-13 | ECC | TV | OCO |  25  |  21,687  |
| P00248047-1 | 12/6/2015 | 7:40:00 PM | PAT-17 | ECC | TV | OCO |  281  |  127,203  |
| P00248050-1 | 12/6/2015 | 7:40:00 PM | VIS-22 | EAA | TV | OCO |  10  |  9,696  |
| P00248053-1 | 12/6/2015 | 7:41:00 PM | HAN-15 | EAA | TV | OCO |  248  |  168,450  |
| P00248062-1 | 12/6/2015 | 7:43:00 PM | CUS-13 | EAA | TV | OCO |  102  |  96,577  |
| P00248269-1 | 12/6/2015 | 7:48:00 PM | PET-12 | EAC | TV | OCR |  24  |  12,422  |
| P00248074-1 | 12/6/2015 | 7:49:00 PM | CUS-16 | EAA | TV | OCO |  54  |  54,204  |
| P00248065-1 | 12/6/2015 | 7:49:03 PM | HAP-16 | EAA | OD | OCO |  200  |  129,720  |
| P00248106-1 | 12/6/2015 | 7:51:00 PM | TLN-0003 | EAA | TV | OCO |  1,073  |  25,180  |
| P00248080-1 | 12/6/2015 | 7:54:06 PM | MCA-15 | ECC | TV | OCO |  62  |  31,000  |
| P00248086-1 | 12/6/2015 | 7:57:08 PM | SUM-21 | EAC | TV | OFU |  97  |  20,223  |
| P00248089-1 | 12/6/2015 | 7:59:00 PM | PAT-15 | ECC | TV | OCO |  212  |  22,937  |
| P00248091-1 | 12/6/2015 | 8:00:00 PM | LON-22 | ECC | TV | OCO |  102  |  103,659  |
| P00248094-1 | 12/6/2015 | 8:00:55 PM | LAB-23 | EAA | EF | OTF |  2  |  1,215  |
| P00248472-1 | 12/6/2015 | 8:01:48 PM | RAI-13 | ECC | TV | OCO |  21  |  10,772  |
| P00248102-1 | 12/6/2015 | 8:01:56 PM | MCA-16 | ECC | TV | OCO |  1,932  |  439,756  |
| P00248101-1 | 12/6/2015 | 8:03:00 PM | LUH-14 | ECC | TV | OCO |  112  |  101,610  |
| P00248103-1 | 12/6/2015 | 8:03:11 PM | LUH-17 | ECC | OD | OCO |  124  |  198,749  |
| P00248185-1 | 12/6/2015 | 8:04:00 PM | ROC-26 | ECC | TV | OCO |  174  |  176,318  |
| **NUMBER** | **DATE** | **TIME** | **CKT** | **MPG** | **CAZ** | **EQT** |  **CUST.OUT**  |  **CUST.MIN**  |
| P00248118-1 | 12/6/2015 | 8:05:00 PM | MKI-16 | ECC | TV | OCO |  86  |  77,439  |
| P00248116-1 | 12/6/2015 | 8:05:32 PM | ROE-13 | EAA | TF | SCB |  679  |  56,551  |
| P00248122-1 | 12/6/2015 | 8:08:00 PM | SUM-21 | EAC | TV | OCO |  24  |  9,156  |
| P00248123-1 | 12/6/2015 | 8:09:00 PM | ELD-27 | ECC | TV | OCO |  22  |  21,515  |
| P00248131-1 | 12/6/2015 | 8:12:55 PM | SHE-17 | ECE | TV | OFU |  3  |  177  |
| P00248135-1 | 12/6/2015 | 8:13:20 PM | MKI-17 | ECC | TV | OSV |  1  |  811  |
| P00248385-1 | 12/6/2015 | 8:15:00 PM | VIS-25 | EAA | TV | OCO |  257  |  38,628  |
| P00247912-2 | 12/6/2015 | 8:17:22 PM | SPI-16 | EBD | EF | OPO |  6  |  1,594  |
| P00248140-1 | 12/6/2015 | 8:18:00 PM | SUM-21 | EAC | TV | OCO |  214  |  53,796  |
| P00248144-1 | 12/6/2015 | 8:19:18 PM | VIS-25 | EAA | TF | SCB |  2,079  |  145,301  |
| P00248156-1 | 12/6/2015 | 8:20:00 PM | FRG-24 | ECC | TF | OCO |  949  |  222,313  |
| P00248174-1 | 12/6/2015 | 8:23:53 PM | CPV-12 | EAD | TV | OFU |  12  |  2,614  |
| P00248171-1 | 12/6/2015 | 8:28:33 PM | GRV-12 | ECA | TV | OCO |  6  |  2,570  |
| P00248176-1 | 12/6/2015 | 8:30:00 PM | HAN-16 | EAA | TV | OCO |  33  |  26,761  |
| P00248177-1 | 12/6/2015 | 8:30:00 PM | WOB-23 | EAA | TV | OCO |  7  |  6,476  |
| P00248182-1 | 12/6/2015 | 8:34:00 PM | WOB-23 | EAA | OD | OCO |  11  |  8,554  |
| P00248182-3 | 12/6/2015 | 8:34:00 PM | WOB-23 | EAA | TV | OCO |  11  |  8,556  |
| P00248183-1 | 12/6/2015 | 8:34:00 PM | GRI-13 | ECC | TV | OCO |  39  |  48,952  |
| P00248187-1 | 12/6/2015 | 8:41:00 PM | SEM-15 | EAA | TV | OCO |  36  |  39,469  |
| P00248188-1 | 12/6/2015 | 8:42:00 PM | LUH-15 | ECC | TV | OCO |  9  |  7,610  |
| P00248191-1 | 12/6/2015 | 8:43:00 PM | MCK-15 | EAA | OD | OCO |  54  |  24,162  |
| P00248195-1 | 12/6/2015 | 8:44:00 PM | LUH-14 | ECC | TV | OPO |  32  |  25,930  |
| P00248331-1 | 12/6/2015 | 8:44:29 PM | GRI-15 | ECC | TV | OCO |  406  |  114,174  |
| P00248196-1 | 12/6/2015 | 8:48:00 PM | LUH-14 | ECC | TV | OCO |  14  |  14,015  |
| P00248197-1 | 12/6/2015 | 8:49:00 PM | HAN-15 | EAA | TV | OCO |  4  |  1,877  |
| **NUMBER** | **DATE** | **TIME** | **CKT** | **MPG** | **CAZ** | **EQT** |  **CUST.OUT**  |  **CUST.MIN**  |
| P00248206-1 | 12/6/2015 | 8:50:51 PM | FRG-25 | ECC | TV | OCO |  17  |  15,203  |
| P00248515-1 | 12/6/2015 | 8:54:34 PM | NLM-16 | EAC | TV | OTF |  1  |  384  |
| P00248209-1 | 12/6/2015 | 8:55:50 PM | WLS-13 | EAC | TV | OSV |  1  |  272  |
| P00248217-1 | 12/6/2015 | 8:56:00 PM | VIS-26 | EAA | TV | OCO |  106  |  51,691  |
| P00248211-1 | 12/6/2015 | 8:56:18 PM | BAR-17 | ECC | EF | OTR |  3  |  2,282  |
| P00248219-1 | 12/6/2015 | 8:57:00 PM | FRG-25 | ECC | TV | OCO |  5  |  1,997  |
| P00248249-1 | 12/6/2015 | 8:57:00 PM | ELD-23 | ECC | TV | OCO |  163  |  49,154  |
| P00248220-1 | 12/6/2015 | 8:58:00 PM | LUH-14 | ECC | TV | OTR |  2  |  2,338  |
| P00248526-1 | 12/6/2015 | 8:58:00 PM | LUH-14 | ECC | EF | OTR |  3  |  3,162  |
| P00248479-1 | 12/6/2015 | 9:00:00 PM | LUH-14 | ECC | TV | OCO |  239  |  88,056  |
| P00248227-1 | 12/6/2015 | 9:01:00 PM | ELD-23 | ECC | TV | OCO |  325  |  26,175  |
| P00248228-1 | 12/6/2015 | 9:01:40 PM | LYN-14 | EAA | FI | OJU |  7  |  3,441  |
| P00248232-1 | 12/6/2015 | 9:03:19 PM | RAI-13 | ECC | TV | OTR |  1  |  564  |
| P00248234-1 | 12/6/2015 | 9:04:00 PM | LUH-14 | ECC | TV | OCO |  52  |  8,165  |
| P00248238-1 | 12/6/2015 | 9:05:00 PM | BIG-12 | EAC | TV | OCO |  31  |  30,351  |
| P00248240-1 | 12/6/2015 | 9:06:27 PM | FRG-25 | ECC | EF | OTR |  1  |  762  |
| P00248247-1 | 12/6/2015 | 9:07:22 PM | CED-17 | ECA | TF | OCO |  774  |  86,600  |
| P00248309-1 | 12/6/2015 | 9:10:36 PM | GRI-15 | ECC | TV | OCO |  90  |  65,496  |
| P00248260-1 | 12/6/2015 | 9:12:00 PM | ELD-23 | ECC | TV | OCO |  -  |  1,555  |
| P00248273-1 | 12/6/2015 | 9:13:00 PM | GRI-16 | ECC | TV | OCO |  72  |  71,923  |
| P00248381-1 | 12/6/2015 | 9:13:00 PM | AIR-23 | ECC | TV | OCO |  16  |  17,644  |
| P00248266-1 | 12/6/2015 | 9:13:58 PM | KEN-12 | EAA | TV | OFC |  8  |  2,476  |
| P00248502-1 | 12/6/2015 | 9:15:38 PM | LUH-14 | ECC | TV | OTR |  1  |  542  |
| P00248278-1 | 12/6/2015 | 9:16:00 PM | HOL-12 | ECA | TV | OCO |  2,805  |  1,732,693  |
| P00248281-1 | 12/6/2015 | 9:17:53 PM | BDI-13 | EBI | TV | OCO |  1,606  |  80,300  |
| **NUMBER** | **DATE** | **TIME** | **CKT** | **MPG** | **CAZ** | **EQT** |  **CUST.OUT**  |  **CUST.MIN**  |
| P00248283-1 | 12/6/2015 | 9:19:45 PM | PLY-13 | EAA | OD | OTF |  4  |  2,284  |
| P00248288-1 | 12/6/2015 | 9:22:00 PM | GRI-13 | ECC | TV | OCO |  18  |  18,160  |
| P00248503-1 | 12/6/2015 | 9:23:00 PM | LUH-14 | ECC | TV | OCO |  65  |  54,653  |
| P00248294-1 | 12/6/2015 | 9:26:00 PM | PRI-13 | ECC | TV | OCO |  4  |  4,535  |
| P00248403-1 | 12/6/2015 | 9:34:52 PM | VIS-26 | EAA | UN | OFU |  6  |  1,852  |
| P00248304-1 | 12/6/2015 | 9:38:27 PM | SUM-21 | EAC | TV | OCO |  8  |  3,234  |
| P00248204-1 | 12/6/2015 | 9:39:12 PM | NLM-16 | EAC | TV | OTF |  2  |  640  |
| P00248310-1 | 12/6/2015 | 9:40:40 PM | NUG-25 | EAA | TV | SCB |  535  |  35,123  |
| P00248317-1 | 12/6/2015 | 9:50:45 PM | GRI-16 | ECC | TV | OCO |  13  |  14,965  |
| P00248318-1 | 12/6/2015 | 9:51:03 PM | FRG-24 | ECC | TV | OCO |  1  |  978  |
| P00248323-1 | 12/6/2015 | 9:56:06 PM | FRG-25 | ECC | EF | OTR |  2  |  1,475  |
| P00248339-1 | 12/6/2015 | 9:57:00 PM | SLA-15 | EAA | TV | OPO |  311  |  166,090  |
| P00248327-1 | 12/6/2015 | 9:58:11 PM | LTA-18 | ECA | TV | OCO |  60  |  61,952  |
| P00248329-1 | 12/6/2015 | 9:58:48 PM | LAU-11 | EAA | TV | OTF |  3  |  1,810  |
| P00248340-1 | 12/6/2015 | 10:01:50 PM | PIP-23 | EBI | TV | OCO |  66  |  4,817  |
| P00248348-1 | 12/6/2015 | 10:06:00 PM | GRI-16 | ECC | TV | OCO |  14  |  18,346  |
| P00248389-1 | 12/6/2015 | 10:07:00 PM | BLA-13 | EAA | TV | OCO |  164  |  114,844  |
| P00248378-1 | 12/6/2015 | 10:10:00 PM | FRG-25 | ECC | TV | OCO |  1,323  |  43,924  |
| P00248359-1 | 12/6/2015 | 10:12:22 PM | BHS-12 | EAA | UN | OFU |  2  |  935  |
| P00248371-1 | 12/6/2015 | 10:14:38 PM | SHD-16 | EBI | TV | OCO |  1,274  |  59,687  |
| P00247880-2 | 12/6/2015 | 10:15:33 PM | SOM-16 | EBE | CP | OPO |  50  |  2,270  |
| P00248380-1 | 12/6/2015 | 10:19:00 PM | OSC-23 | EBI | TV | OCO |  17  |  7,135  |
| P00248511-1 | 12/6/2015 | 10:21:18 PM | KEN-12 | EAA | TV | OCO |  29  |  24,555  |
| P00248401-1 | 12/6/2015 | 10:45:11 PM | SCH-15 | EAA | TV | OFU |  16  |  5,063  |
| P00248405-1 | 12/6/2015 | 10:50:57 PM | NUG-25 | EAA | TV | SCB |  1,070  |  17,370  |
| **NUMBER** | **DATE** | **TIME** | **CKT** | **MPG** | **CAZ** | **EQT** |  **CUST.OUT**  |  **CUST.MIN**  |
| P00248413-1 | 12/6/2015 | 11:05:00 PM | MCK-15 | EAA | OD | OCO |  4  |  3,346  |
| P00248415-1 | 12/6/2015 | 11:05:47 PM | FRU-25 | ECA | TV | OCO |  45  |  27,751  |
| P00248421-1 | 12/6/2015 | 11:09:00 PM | VWY-12 | EAA | TV | OCO |  119  |  67,957  |
| P00248420-1 | 12/6/2015 | 11:11:49 PM | CED-15 | ECA | TV | OCO |  60  |  36,018  |
| P00248423-1 | 12/6/2015 | 11:16:00 PM | LUH-14 | ECC | TV | OCO |  4  |  3,742  |
| P00248431-1 | 12/6/2015 | 11:19:25 PM | NUG-26 | EAA | TV | OFU |  154  |  18,051  |
| P00248428-1 | 12/6/2015 | 11:22:00 PM | LUH-14 | ECC | TV | OSV |  3  |  970  |
| P00248438-1 | 12/6/2015 | 11:41:54 PM | KAP-16 | ECA | TV | OCO |  2  |  2,976  |
| P00248454-1 | 12/6/2015 | 11:47:00 PM | YEL-27 | ECC | TV | OCO |  269  |  99,248  |
| P00248458-1 | 12/6/2015 | 11:47:11 PM | NUG-25 | EAA | TV | OFU |  105  |  30,868  |
| P00248435-1 | 12/6/2015 | 11:52:28 PM | NUG-25 | EAA | OD | OCO |  51  |  26,997  |

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

|  |  |
| --- | --- |
| Notification (NUMBER)  | A number assigned by SAP, identifying the outage record |
| **Date (DATE)** | The date of the outage |
| **Time (TIME)** | The time of the outage |
| **Circuit (CKT)** | The circuit identifier for the affected circuit |
| **Area (MPG)** | **Maintenance Planner Group** A code representing the energy, region and service center |
| EAA – Bellingham | EBJ – South King |
| EAC – Skagit | EBL – Vashon |
| EAD – Whidbey | ECA – Puyallup |
| EBD – Redmond | ECC – Olympia |
| EBE – Factoria | ECD – Port Orchard |
| EBF – Snoqualmie | ECE – Poulsbo |
| EBI – Enumclaw |  |
| **Cause (CAZ)** | **Cause of Outage** |
| AO – Accident Other | EF – Equipment Failure |
| BA – Bird or Animal | EO – Electrical Overload |
| CP – Car Pole | FI – Faulty Installation |
| CR – Customer Request | TF – Tree Off Right-of-Way |
| DU – Dig-up Underground | TO – Tree On Right-of-Way |
| TV – Trees/Vegetation | SO – Scheduled Outage |
| UN – Unknown |  |
| Equipment (EQT)  | **Affected by, or involved in the outage** |
| OCN – Connector | OSW – Overhead Switch |
| OCO – Overhead Conductor | OTF – Overhead Transformer Fuse |
| OCR – Crossarm | OTR – Overhead Transformer |
| OFC – Overhead Cut-out | OUP – OH to UG Primary |
| OFS – Overhead Fire Signal | OUS – OH to UG Secondary Service |
| OFU – Fuse Link/OH Line Fuse | SBF – High-side Bank Fuse |
| OGS – Span Guy | SCB – Power Circuit Breaker |
| OHR – Overhead Recloser | UOT – Underground Outdoor Term |
| OIN – Insulator | UPC – Underground Primary Cable |
| OJU- Jump Wire | UPT – Padmount Transformer |
| OPI – Overhead Pin Insulator | USV – Underground Service |
| OPO – Pole | UTC – Underground Terminal Fuse |
| OSV – Overhead Service | UTR – Submersible Transformer |
| ORE – Regulator |  |
| **CUST OUT (CUST.OUT)** | **Customer Out,** The number of customers without power for any given outage record |
| **CUST MIN (CUST. MIN)** | **Customer Minutes,** The total number of minutes customers were without power for any given record |

# **Media & Communication Coverage**





National Weather Service, Seattle WA

An active and stormy pattern with weather impacts for Western Washington

Sat 12/5/2015 4:10 PM

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:**

A very active weather pattern is shaping up for the next several days across the Pacific. A series of storms will impact the area. Wind, rain, flooding, high surf, and mountain snow will accompany these storms over the next several days.

**HEADLINES:**

There are many watches, warnings and advisories in effect. Please visit weather.gov/sew for a complete list.

**FORECAST SPECIFICS:**

**Winds**

Coast/North Interior: Winds gust to 45 mph through late this evening before diminishing. Southeast winds will increase Sunday evening and into the overnight again, with gusts of 50-60 MPH possible. This will produce downed trees, limbs, and branches with local power outages possible and difficult driving for high profile vehicles.

**Dangerous High Surf**

Coast: West swell of 17 to 22 feet late Sunday afternoon through early Monday morning. The highest waves, above 20 feet will arrive early Sunday evening with waves peaking around midnight and subsiding early Monday morning. Waves this big will cause possible beach erosion, especially north of the Grays Harbor north jetty, and dangerous surf conditions. High surf will run farther up the beaches than usual and may contain logs and other debris.

**Snow**

Cascades: Heavy snow continues through tonight. Total accumulations up to 2 feet in high elevations and 2 to 10 inches in lower elevations. Hazardous driving conditions, snow covered and slippery roads are expected in the Cascades and at pass level. Snow levels will remain at 3000 to 5000 feet through Monday. This means additional significant accumulations are expected late Sunday evening and into early Monday. Snow levels will rise after that through the coming week, so subsequent storms will experience less snow at pass level and by midweek the snow level will be higher than pass level.

**Rain**

Heavy rain is expected over the next several days. Rainfall totals through mid week are expected at 1-3 inches in the lowlands with 5-7 inches in the mountains and high spots of 10-15 inches in the favored areas of the Olympics and Cascades . This will produce some flooding on area rivers over the next several days.

**CONFIDENCE:**

There is moderate to high confidence in the weekend storm conditions through early Monday morning.

Confidence in the series of storms coming this week is moderate to high. But --- the precise details and timing of the individual storms remains lower. While all details are not exact at this point, the email is a heads up that there will be several days of rain coming to the area and that will produce impacts.

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)