



2008 Qualifying Storm Events

December 24, 2008

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Event Description

Date of event

December 24, 2008

Event Type

Wind and snow storm.

Service Areas Affected

This weather event impacted primarily King and Kitsap counties.

Number of Customers Affected

Approximately 44,565 customers were affected during over the course of this outage event.

Summary of System Impacts

| | |
|-------------------------------------|------------|
| Total Number of Outages | 421 |
| Distribution Circuits Totally Out | 20 |
| Distribution Circuits Partially Out | 401 |

| | |
|--------------------------------|---|
| Transmission Circuits Affected | 2 |
| Substations Totally Off-line | 1 |

Mobilization Summary

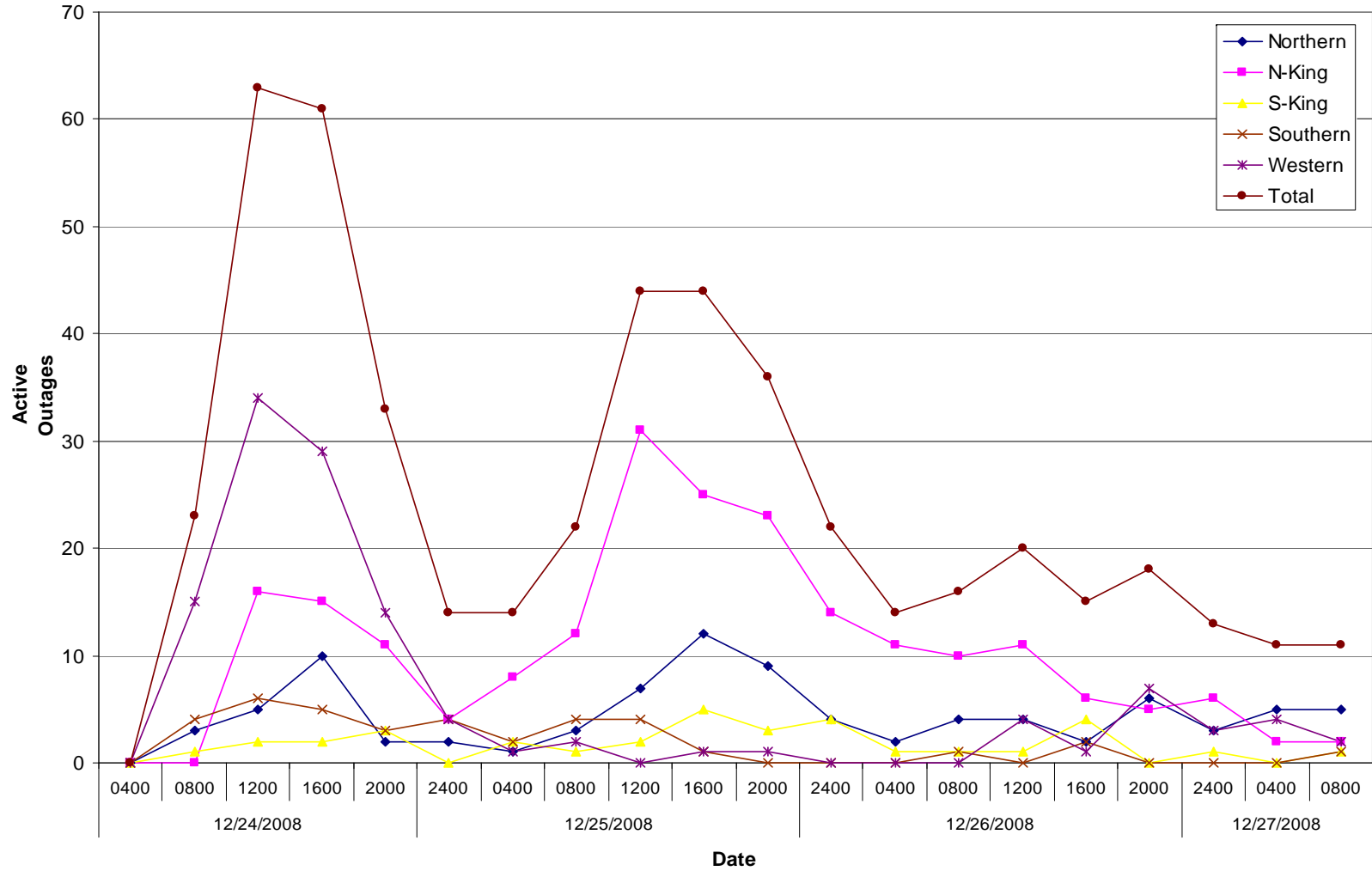
Operating bases

| Base | Date Opened | Time Opened | Date Closed | Time Closed |
|--------|-------------|-------------|-------------|-------------|
| N King | 12/24/2008 | 14:30 | 12/26/2008 | 22:30 |
| Kitsap | 12/24/2008 | 08:00 | 12/24/2008 | 23:59 |

Emergency Operations Center

| EOC | Date Opened | Time Opened | Date Closed | Time Closed |
|-----|-------------|-------------|-------------|-------------|
| | -- | -- | -- | -- |

Outage Events - Dec. 24, 2008 to Dec. 27, 2008



Major Event Day – Qualification

IEEE 1366 Method

IEEE 1366 was established to present a set of terms and definitions which can be used to foster uniformity in the development of distribution 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 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 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 3.
6. Compute the threshold Tmed where $Tmed = \exp(\text{Alpha} + 2.5 * \text{Beta})$
7. Any day in the next year with SAIDI > Tmed is a major event day.

Puget Sound Energy's Major Event Threshold for 2008: 7.36 Minutes

Qualified Events - 2008

Current Event – Calculation Detail

| Event Date | Total Customer Minutes | Average Customer Count | Daily SAIDI – Customer Minutes /Customer Count |
|------------|------------------------|------------------------|--|
| 12/24/2008 | 7,927,806 | 1,074,461 | 7.38 |

Cumulative list of events that have qualified

| Date(s) | T-med Score | O&M – Deferrable Accumulation |
|------------|-------------|-------------------------------|
| 06/09/2008 | 10.54 | \$764,542 |
| 12/20/2008 | 28.93 | \$6,235,458 |
| 12/24/2008 | 7.38 | \$0 |

Event Restoration – Cost Summary

Restoration Cost Detail by Qualifying Event

| Date | Qualified Events Deferred Account | Capital | C&D Costs Recoverable from Direct Billings (Costs Not Yet Billed) | O&M – Not Deferrable | O&M – Deferrable Accumulation | Total O&M | Total |
|------------|-----------------------------------|-----------|---|----------------------|-------------------------------|-------------|-------------|
| 06/09/2008 | \$0 | \$26,585 | \$0 | \$58,475 | \$764,542 | \$823,017 | \$849,601 |
| 12/20/2008 | \$638,128 | \$279,670 | \$0 | \$204,908 | \$6,235,458 | \$6,440,366 | \$7,358,164 |
| 12/24/2008 | \$1,594,831 | \$79,049 | \$0 | \$55,476 | \$0 | \$55,476 | \$1,729,356 |

YTD Storm Restoration Cost Detail – Through December 24, 2008

| Qualified Events Deferred Account | Capital | C&D Costs Recoverable from Direct Billings (Costs Not Yet Billed) | O&M – Not Deferrable | O&M Deferrable Accumulation | Total O&M | Total |
|-----------------------------------|-----------|---|----------------------|-----------------------------|-------------|-------------|
| \$2,232,959 | \$385,304 | \$0 | \$318,859 | \$7,000,000 | \$7,318,859 | \$9,937,122 |

Qualifying Storm Event
December 24, 2008

Detail Documents

Restoration Cost Detail – Current Event

Detailed List of Distribution Circuits with Outages

Terms, Codes & Definitions Used on Detail Reports

Newsprint Media Coverage

Restoration Cost Detail – Current Event

| Puget Sound Energy | | | | | | | |
|--|---------------------------------------|-----------|--|-------------------------|----------------------------------|---------------|--------------|
| December 24, 2008 Storm Damage Repair Costs | | | | | | | |
| | Qualifying Events Deferred Account | Capital | C&D Recoverable from Direct Billings (Costs Not Yet Billed) | O&M - Not Deferrable | O&M - Deferrable Accumulation | Total O&M | Total |
| Labor | | | | | | | |
| ST | | \$ 261 | | | \$ 4,667 | \$4,667 | \$4,928 |
| OT | | | | | \$ 130,351 | \$130,351 | \$130,351 |
| Total Labor | \$0 | \$ 261 | \$0 | \$0 | \$ 135,018 | \$135,018 | \$135,279 |
| Labor OH | | \$ 157 | | | \$ 57,532 | \$57,532 | \$57,688 |
| Materials | | \$ 16,166 | | | \$ 28,753 | \$28,753 | \$44,918 |
| Contractors | | \$ 52,921 | | | \$ 1,328,672 | \$1,328,672 | \$1,381,593 |
| Other Direct Charges | | | | | \$ 12,979 | \$12,979 | \$12,979 |
| Fleet | | \$ 27 | | | \$ 31,878.19 | \$31,878 | \$31,906 |
| Other Assessments | | \$ 9,518 | | \$ 55,476 | \$ (0) | \$ 55,476 | \$ 64,993.65 |
| Deferred Expenses | \$ 1,594,831 | | | | (\$1,594,831) | (\$1,594,831) | \$ - |
| | \$ 1,594,831 | \$79,049 | \$0 | \$55,476 | \$ - | \$55,476 | \$1,729,356 |

IEEE-1366 - Detailed List of Distribution Circuits with Outages

| Notification | Date | Time | Circuit | Area | Cause | Equip-ment | Cust Outs | Cust Mins |
|--------------|------------|---------|---------|------|-------|------------|-----------|-----------|
| E993294237 | 12/25/2008 | 0:41:00 | HOB-15 | EBI | EF | OCO | 65 | 16,510 |
| E116604757 | 12/25/2008 | 0:51:00 | GWR-16 | EBI | TO | OCO | 406 | 120,203 |
| E761632935 | 12/25/2008 | 0:53:00 | FAL-15 | EBF | TO | OCO | 1,315 | 473,876 |
| E315934044 | 12/25/2008 | 1:18:00 | LLT-16 | EBD | TO | OCO | 1,048 | 180,256 |
| E230895410 | 12/25/2008 | 2:02:00 | LMC-23 | EBF | TO | OCO | 127 | 30,480 |
| E476948186 | 12/25/2008 | 2:12:00 | COT-13 | EBD | TF | OCO | 2 | 336 |
| E113362643 | 12/25/2008 | 2:24:00 | SBE-26 | EBE | TO | OCO | 6 | 1,338 |
| E637602524 | 12/25/2008 | 2:48:00 | BAR-15 | ECC | EF | OTF | 1 | 451 |
| E688082449 | 12/25/2008 | 3:03:00 | MIR-17 | EBF | TO | OCO | 5 | 1,485 |
| E121695588 | 12/25/2008 | 3:38:00 | DUV-13 | EBD | TF | OCO | 66 | 13,332 |
| E277246921 | 12/25/2008 | 3:40:00 | DUV-12 | EBD | TF | OCO | 20 | 3,960 |
| E823721334 | 12/25/2008 | 3:58:00 | HAM-15 | EAC | TF | OCO | 1 | 1,892 |
| E787853731 | 12/25/2008 | 4:09:00 | LLT-17 | EBD | TO | OCO | 963 | 790,623 |
| E194536010 | 12/25/2008 | 4:22:00 | PET-16 | EAC | EF | OTF | 1 | 82 |
| E310683037 | 12/25/2008 | 4:32:00 | ROC-17 | ECC | TO | OCO | 41 | 22,058 |
| E371937502 | 12/25/2008 | 5:09:00 | ROC-16 | ECC | EF | OCO | 15 | 11,174 |
| E127190246 | 12/25/2008 | 5:13:00 | BRS-24 | EAC | TO | OCO | 11 | 6,104 |
| E380693497 | 12/25/2008 | 5:44:00 | KIN-24 | ECE | TF | OCO | 102 | 15,606 |
| E351369188 | 12/25/2008 | 6:13:00 | PET-16 | EAC | TO | OFU | 8 | 1,048 |
| E823674071 | 12/25/2008 | 6:50:00 | HWD-25 | EBD | TO | OCO | 1,341 | 974,907 |
| E020325826 | 12/25/2008 | 6:56:00 | LLT-15 | EBD | TO | OCO | 1,550 | 238,700 |
| E531031551 | 12/25/2008 | 7:12:00 | LLT-13 | EBD | EF | OCO | 224 | 74,816 |
| E832188836 | 12/25/2008 | 7:29:00 | NBO-22 | EBD | PO | OAT | 33 | 12,078 |
| E402723419 | 12/25/2008 | 7:35:00 | LLT-16 | EBD | TO | OCO | 1,037 | 582,236 |
| E995337151 | 12/25/2008 | 7:35:00 | COT-16 | EBD | TO | OPO | 950 | 454,100 |
| E310714044 | 12/25/2008 | 7:40:00 | SMR-26 | ECA | EF | USV | 1 | 315 |
| E290508291 | 12/25/2008 | 7:50:00 | DUV-12 | EBD | TO | OPO | 1,828 | 630,560 |
| E967715015 | 12/25/2008 | 8:01:00 | PRI-13 | ECC | TF | OFU | 30 | 7,357 |
| E755799379 | 12/25/2008 | 8:21:00 | COT-13 | EBD | TO | CDH | 77 | 27,643 |
| E923912433 | 12/25/2008 | 8:30:00 | DUV-13 | EBD | TF | OCO | 65 | 27,300 |
| E658979609 | 12/25/2008 | 8:38:00 | TOL-15 | EBD | TO | OCO | 42 | 15,792 |
| E397712182 | 12/25/2008 | 8:40:00 | LMC-23 | EBF | TO | OCO | 246 | 124,722 |
| E340078335 | 12/25/2008 | 8:56:00 | HKX-12 | EAC | EF | OFC | 23 | 3,419 |
| E615992212 | 12/25/2008 | 8:56:00 | FAL-15 | EBF | PO | OCO | 188 | 217,704 |
| E147167610 | 12/25/2008 | 9:09:00 | HAM-13 | EAC | TO | OFU | 5 | 1,574 |
| E673606960 | 12/25/2008 | 9:09:00 | MAP-15 | EBF | PO | OSV | 3 | 504 |
| E416459693 | 12/25/2008 | 9:11:00 | PAT-17 | ECC | TF | OFU | 17 | 1,878 |
| E541739571 | 12/25/2008 | 9:11:00 | HAP-16 | EAA | TO | OCO | 7 | 3,654 |
| E725103818 | 12/25/2008 | 9:19:00 | ING-13 | EBD | TO | OCO | 252 | 209,412 |
| E504303504 | 12/25/2008 | 9:21:00 | BIG-15 | EAC | TO | OCO | 71 | 77,855 |
| E615524893 | 12/25/2008 | 9:22:00 | SLA-15 | EAA | EO | OTF | 3 | 296 |
| E604298769 | 12/25/2008 | 9:24:00 | MCA-13 | ECC | EF | OTF | 1 | 137 |
| E224894818 | 12/25/2008 | 9:31:00 | LYN-23 | EAA | TO | OFU | 59 | 6,771 |
| E325930739 | 12/25/2008 | 9:37:00 | LLT-15 | EBD | TO | OCO | 35 | 14,840 |

Qualifying Storm Event
December 24, 2008

| Notification | Date | Time | Circuit | Area | Cause | Equip-ment | Cust Outs | Cust Mins |
|--------------|------------|----------|---------|------|-------|------------|-----------|-----------|
| E082577090 | 12/25/2008 | 9:56:00 | NHL-17 | EBD | TO | OCR | 598 | 458,068 |
| E435680869 | 12/25/2008 | 10:04:00 | ING-16 | EBD | TO | OCO | 1,741 | 386,502 |
| E345647966 | 12/25/2008 | 10:10:00 | MIR-15 | EBF | TO | OCO | 1 | 348 |
| E151046489 | 12/25/2008 | 10:10:00 | MIR-15 | EBF | TO | OCO | 7 | 1,001 |
| 10863495 | 12/25/2008 | 10:26:00 | WAY-12 | EBD | EF | OTR | 8 | 336 |
| 10865352 | 12/25/2008 | 10:33:00 | LLT-13 | EBD | TF | OCO | 559 | 16,211 |
| E509193245 | 12/25/2008 | 10:48:00 | HWD-01 | EBD | TO | OCO | 2,809 | 306,181 |
| E481510320 | 12/25/2008 | 10:55:00 | NHL-15 | EBD | TO | OCO | 27 | 6,885 |
| E961315548 | 12/25/2008 | 10:56:00 | MIR-17 | EBF | TO | OCO | 2 | 2,058 |
| E325366610 | 12/25/2008 | 10:59:00 | TOL-17 | EBD | TO | OJU | 3 | 1,881 |
| E205456053 | 12/25/2008 | 11:52:00 | HAP-13 | EAA | EF | USV | 1 | 305 |
| E835500012 | 12/25/2008 | 11:54:00 | ROS-15 | EBD | TF | OSV | 2 | 252 |
| E256870454 | 12/25/2008 | 11:55:00 | BIG-12 | EAC | TO | OFU | 11 | 1,793 |
| E744736567 | 12/25/2008 | 12:06:00 | ZEN-24 | EBJ | EF | OTR | 3 | 801 |
| E873704556 | 12/25/2008 | 12:10:00 | NOR-23 | EBD | TO | OCO | 7 | 4,690 |
| E476975677 | 12/25/2008 | 12:14:00 | ZEN-25 | EBJ | EF | USE | 3 | 1,221 |
| E587936094 | 12/25/2008 | 12:55:00 | LLT-13 | EBD | TO | OCO | 224 | 162,848 |
| E835240426 | 12/25/2008 | 13:14:00 | GBK-15 | EAD | EF | OTF | 3 | 319 |
| E758922751 | 12/25/2008 | 13:16:00 | KNM-27 | EBD | TO | OTR | 9 | 5,391 |
| 10863474 | 12/25/2008 | 13:26:00 | DUV-12 | EBD | TF | OCO | 25 | 8,475 |
| E452689556 | 12/25/2008 | 13:37:00 | LYO-15 | EBJ | TF | OCO | 26 | 16,933 |
| E462357434 | 12/25/2008 | 13:41:00 | HWD-22 | EBD | TO | OCO | 27 | 3,699 |
| E178962129 | 12/25/2008 | 13:50:00 | BRO-15 | EAD | EF | OTF | 3 | 704 |
| E881942248 | 12/25/2008 | 14:03:00 | CPV-13 | EAD | EF | OTF | 2 | 447 |
| E852000117 | 12/25/2008 | 14:05:00 | SCH-15 | EAA | TO | OFU | 50 | 11,439 |
| E925375961 | 12/25/2008 | 14:17:00 | SIN-24 | ECD | EF | OCN | 1 | 65 |
| E637039598 | 12/25/2008 | 14:35:00 | SKY-25 | EBD | TF | OPO | 7 | 8,890 |
| 10863473 | 12/25/2008 | 14:41:00 | COT-16 | EBD | TF | OPO | 30 | 6,930 |
| E631259182 | 12/25/2008 | 14:48:00 | DUV-15 | EBD | TO | OCO | 18 | 6,696 |
| E119826669 | 12/25/2008 | 14:50:00 | DUV-12 | EBD | TF | OPO | 1,828 | 158,280 |
| E727408432 | 12/25/2008 | 14:55:00 | COT-13 | EBD | TF | OCO | 47 | 31,302 |
| E757208594 | 12/25/2008 | 14:58:00 | BRS-24 | EAC | TO | OCO | 30 | 20,025 |
| E893523349 | 12/25/2008 | 14:59:00 | HAM-13 | EAC | EF | OFC | 1 | 762 |
| E873251976 | 12/25/2008 | 15:08:00 | DUV-12 | EBD | TO | OPO | 41 | 6,396 |
| E941507585 | 12/25/2008 | 15:29:00 | HOB-16 | EBI | TO | OCO | 25 | 15,918 |
| E365828179 | 12/25/2008 | 15:33:00 | TOL-15 | EBD | TO | OCO | 5 | 410 |
| 10863472 | 12/25/2008 | 15:43:00 | DUV-13 | EBD | TO | OCO | 25 | 1,400 |
| E611964793 | 12/25/2008 | 15:56:00 | HLC-25 | EAD | EF | UEL | 39 | 15,618 |
| E286935689 | 12/25/2008 | 15:59:00 | MIL-17 | ECE | EF | OTF | 3 | 280 |
| 10863471 | 12/25/2008 | 16:11:00 | TOL-17 | EBD | EF | OFU | 15 | 615 |
| E146645752 | 12/25/2008 | 16:35:00 | COT-16 | EBD | TO | OCO | 57 | 21,375 |
| E920768040 | 12/25/2008 | 16:44:00 | SOM-15 | EBE | EF | UPC | 431 | 499,426 |
| E280981542 | 12/25/2008 | 17:01:00 | NBO-22 | EBD | TF | OCO | 2 | 58 |
| E564345371 | 12/25/2008 | 17:48:00 | PHA-15 | EBE | TF | OTF | 8 | 2,816 |
| E267583045 | 12/25/2008 | 17:51:00 | KCR-16 | EBK | EF | UPC | 4 | 2,896 |
| E781663728 | 12/25/2008 | 18:13:00 | LLT-17 | EBD | TO | OCO | 10 | 6,460 |
| E235121379 | 12/25/2008 | 18:35:00 | NBE-12 | EBF | EF | UPC | 1 | 895 |
| E815686161 | 12/25/2008 | 18:57:00 | HWD-25 | EBD | TO | OCO | 57 | 86,241 |

Qualifying Storm Event
December 24, 2008

| Notification | Date | Time | Circuit | Area | Cause | Equip- ment | Cust Outs | Cust Mins |
|--------------|------------|----------|---------|------|-------|----------------|--------------|--------------|
| E624699822 | 12/25/2008 | 19:27:00 | FLD-15 | EAD | EF | OJU | 15 | 2,217 |
| E739290648 | 12/25/2008 | 19:56:00 | LMC-23 | EBF | TF | OCO | 102 | 75,888 |
| E931181346 | 12/25/2008 | 20:01:00 | HWD-26 | EBD | TO | OCO | 1 | 551 |
| 10863462 | 12/25/2008 | 20:31:00 | LMC-23 | EBE | TO | OCO | 50 | 30,400 |
| E769747806 | 12/25/2008 | 20:35:00 | PHA-16 | EBE | TF | OSV | 1 | 185 |
| E275066130 | 12/25/2008 | 20:39:00 | NBE-13 | EBF | EF | UPC | 1 | 1,872 |
| E437071225 | 12/25/2008 | 20:39:00 | LYO-12 | EBJ | TF | OCO | 1,172 | 119,550 |
| E655817855 | 12/25/2008 | 20:54:00 | LMC-27 | EBF | TO | OCO | 15 | 4,830 |
| E468980903 | 12/25/2008 | 21:39:00 | SWA-13 | EAD | EF | OTF | 3 | 387 |

Terms, Codes and Definitions Used on Detail Reports

| | |
|---------------------|--|
| Notification | [Notification Number] A number assigned by SAP, identifying the outage record |
| Date | The date of the outage |
| Time | The time of the outage |
| Circuit | [Reference Circuit] The circuit identifier for the affected circuit |
| F/LOC | [Functional Location] The grid number where the outage occurred. If the grid number is not available, the Reference Circuit identifier occupies this field |
| EQT NBR | [Equipment Number] A number used to tie the equipment involved in the outage to the related information in SAP. This number does not represent the physical number of the equipment |

| | | |
|-------------|--|----------------------|
| Area | [Maintenance Planner Group] A code representing the energy, region and service center | |
| | EAA – Bellingham | EBJ – South King |
| | EAB – Lynden | EBK – Southwest King |
| | EAC – Skagit | EBL – Vashon |
| | EAD – Whidbey | ECA – Puyallup |
| | EBD – Redmond | ECC – Olympia |
| | EBE – Factoria | ECD – Port Orchard |
| | EBF – Snoqualmie | ECE – Poulsbo |
| | EBI – Enumclaw | ECF – Port Townsend |

| | | |
|--------------|-------------------------|----------------------------|
| Cause | 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 |
| | SO – Scheduled Outage | UN – Unknown |

| | | |
|------------------|--|----------------------------------|
| Equipment | 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 | |

Codes, Definitions – Continued

| | |
|-----------------|---|
| CUST OUT | [Customer Out] The number of customers without power for any given outage record |
| CUST MIN | [Customer Minutes] The total number of minutes customers were without power for any given record |
| CODE | [Storm Code] An event descriptor |
| | NON – Non Storm / Normal Conditions |
| | WTH – Weather Related (eg: wind storm, showers, etc) |
| | MAJ – Major event |

Media Coverage

From PSE Web: PSE restores power to more than 613,000 customers during Christmas week

(Dec. 26, 2008) Since Saturday, Dec. 20, it's been a round-the-clock effort by PSE employees and electric-service and tree crews to respond to snow-caused power outages as well as to prevent possible outages.



From the time Saturday's storm hit the region, followed by additional snow storms throughout Christmas week, until this morning, PSE had restored power to more than 613,000 customers at over 7,500 locations.

Each batch of snow that fell made the roads even more treacherous and contributed to new power outages. Hard-hit areas such as Kitsap and Thurston counties, as well as parts of northeast King County, had considerable snow accumulation topped with ice and more snow. These conditions made it difficult for crews to reach each outage.

Snow-laden tree limbs broke off into power lines and caused the outages. Unlike a wind storm which blows through and makes its damage and needed repair work apparent, the snow accumulations created ongoing, unpredictable outages.

PSE and tree crews helped prevent possible new outages in nearly 80 locations by identifying and removing dozens of drooping tree limbs in danger of falling into the power lines.

Electric-repair crews from Washington state, Oregon and British Columbia joined PSE's 81 electric first responder employees, 50 line crews and two dozen tree crews in the nearly week-long restoration effort.

More than 170 Access Center agents responded to nearly 56,000 customer calls since Dec. 20. To ensure adequate staffing in the face of treacherous travel conditions, the Access Center secured hotel space near the Bothell office and provided limited transportation for all employees. Several agents walked miles after being stranded without vehicles.

On Christmas Day, more than 150 personnel—from 35 PSE Access Center agents to more than 100 line workers and office employees—worked to restore power and stay in touch with customers.