

RE xxxx e-FILING REPORT COVER SHEET

REPORT NAME:

PGE's Major Storm/Event Exclusion for Period October 13, 2014

COMPANY NAME:

Portland General Electric

DOES REPORT CONTAIN CONFIDENTIAL INFORMATION?

No

If known, please select designation:

RE (Electric)

Report is required by:

OAR 860-023-0161

Is this report associated with a specific docket/case?

No

Key words:

PGE's Major Storm/Event Exclusion for Period October 13, 2014

If known, please select the PUC Section to which the report should be directed:

Electric Rates and Planning



Portland General Electric Company
121 SW Salmon Street • Portland, Oregon 97204
PortlandGeneral.com

November 21, 2014

Oregon Public Utility Commission
3930 SW Fairview Industrial Drive SE
P.O. Box 1088
Salem OR 97308-1088

Attn: OPUC Filing Center

Subject: Major Storm/Event Exclusion
Period: October 13, 2014

Portland General Electric (PGE) hereby submits this report in compliance with OAR 860-023-0161 which requires the electric company to file a report with the Commission within 30 business days after the conclusion of an event. This report provides a summary of the major event that occurred on October 13, 2014 for which the CAIDI in PGE's Central and Eastern Regions reliability reporting areas exceeded 5 hours. Please note: No. 4 of this report for the calculated impacts of SAIDI, SAIFI and CAIDI associated to a Major Event includes unrelated event calculations for Southern and Western Regions due to the outage systems automatic system-wide calculation methodology. We could not break these regions out from the total.

OAR 860-023-0161: Major Event Filing by Electric Companies

1. Description of the major event, the interruption causes, and factors that impacted restoration of service.

On October 13, 2014, at 2332, a transmission line switch failure resulted in a fault to the Bell-Gresham 115kV line and caused it to lock out. The line was patrolled; however, the fault location was difficult to detect due to poor visibility (darkness and poor viewing angle). The line had to be patrolled twice before the exact fault location was discovered.

The Lents WR-3 distribution transformer is sourced from a tapline section of the Bell-Gresham 115kV line between two normally closed transmission switches. Permanent faults on the Bell-Gresham 115kV transmission line are normally isolated by opening one of these transmission switches, which allows the Lents Substation to be sourced from either end of the line.

Because the transmission line switch itself was the cause of the fault, the entire line had to remain de-energized to enable the crew to repair the switch.

Since the Lents WR-3 distribution transformer could not be reenergized, the two distribution feeders (Lents-Happy Valley and Lents-13101) had to be restored by manual switching from surrounding substations. The duration of the outage to customers served by the Lents WR-3 transformer was approximately five hours.

Also occurring on October 13, 2014 at 2352, the Tabor-82nd feeder locked out due to an unknown cause, resulting in an outage of ten hours and forty-four minutes. Fault current indicators (FCI) on the line and the breaker relays all indicated a fault had occurred; however, numerous line patrols could not locate the fault. The crew sectionalized the feeder in an attempt to locate the fault but the feeder breaker continued to trip upon each attempt to close.

A Meter Relay Technician was dispatched to the substation to troubleshoot the breaker. It was determined that the cold-load pickup relay was enabled, but it was not blocking the instantaneous overcurrent trip relay due to relay setting error. With automatic reclosing not blocked, the breaker was locking out on each attempt to close. New settings were installed and the breaker was subsequently closed and picked up load.

The affected area was in the Central and Eastern Regions of PGE service territory; Lents and Tabor substations.

2. The Reliability reporting area and geographic area impacted

The Eastern Region of PGE's service territory was impacted by the transmission line fault. The Central Region was impacted by the feeder fault and relay setting error resulting in an extended outage.

3. The total number of customers affected and the number of customers without service at periodic intervals

At the peak of the outage in the Central Region, PGE had approximately 12,265 customers without power. In the Eastern Region, the number of customers without power was approximately 8,486 at the peak of the outage.

4. The calculated SAIDI, SAIFI, and CAIDI impacts (i.e., "Event SAIDI¹, SAIFI², CAIDI³ and T_{med}⁴") associated with the Major Event to customers on a reliability reporting area and a system-wide basis.

	RELIABILITY REPORTING AREAS				SYSTEM-WIDE BASIS
	CENTRAL	EASTERN	SOUTHERN	WESTERN	PGE SERVICE TERRITORY
<i>SAIDI</i>	10.4	15.6	0.08	0.01	6.09
<i>SAIFI</i>	0.02	0.04	0.00	0	0.01
<i>CAIDI</i>	648	326	193	149	329
<i>Customers out at peak</i>	12,265	8,486	79	17	12,265
<i>T_{med}</i>					3.47

Feel free to call John Uwagbae with any questions regarding this filing at (503) 464-2002. Please direct all formal correspondence and requests to the following email address pge.opuc.filings@pgr.com

Sincerely,



James Landstrom,
Manager, Transmission and Distribution Asset Management

Enclosures

c.c. Matthew Craven
Gina Kent
John Uwagbae

¹ SAIDI - System Average Interruption Duration Index
² SAIFI - System Average Interruption Frequency Index
³ CAIDI - Customer Average Interruption Duration Index
⁴ T_{med} - a major event day identification threshold value.

**Major Storm/Event Exclusion
Period: October 13, 2014**

Attachment 1

**Summary of Outages 5 Hours and Longer
for the Entire PGE Service Territory**

Provided in Electronic Format Only

Attachment 1
Summary of Outages 5 Hours and Longer
PGE Service Territory
October 13, 2014

Outage #	Device Open	Outage Date	Outage Time	Feeder Name	Cust Affected	Duration	Return Date	Return Time	Interrupt Location	Feeder Region
2331195	04 Line Fuse Open	10/13/2014	11:57 PM	RIVERVIEW-FULTO	90	800	10/14/2014	1:17 PM	D11-21A/00142CO	C
2331079	02 Feeder Breaker Open	10/13/2014	11:52 PM	TABOR-82ND (1690013)	3698	652	10/14/2014	10:44 AM	1690013FB	C
2330463	02 Feeder Breaker Open	10/13/2014	11:33 PM	LENTS-HAPPY VAL (1405043)	3099	348	10/14/2014	5:21 AM	1405043FB	E
2330327	05 Transformer Fuse Open	10/13/2014	8:17 AM	BETHANY-LAIDLAW (4157053)	3	323	10/13/2014	1:40 PM	61592/0025TF	W
2330467	02 Feeder Breaker Open	10/13/2014	11:34 PM	LENTS-13101 (1405013)	5378	318	10/14/2014	4:52 AM	1405013FB	E