RE 112 e-FILING REPORT COVER SHEET

REPORT NAME:
PGE's Major Storm/Event Exclusion for Period January 1, 2016
COMPANY NAME:
Portland General Electric
DOES REPORT CONTAIN CONFIDENTIAL INFORMATION?
X No
If known, please select designation:
X RE (Electric)
Report is required by:
X OAR 860-023-0161
Is this report associated with a specific docket/case?
X No
Key words:
PGE's Major Storm/Event Exclusion for Period January 1, 2016
If known, please select the PUC Section to which the report should be directed:
X Electric Rates and Planning



February 12, 2016

Oregon Public Utility Commission Attn: Filing Center 201 High Street, S.E. Salem, OR 97308-1088

Re:

Major Storm/Event Exclusion

Period:

January 1, 2016

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 storm event that occurred on January 1, 2016.

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 January 1, 2016, the PGE service territory experienced a wind storm causing widespread outages. Peak winds varied from 44 MPH in the Portland Metro Area to 47 MPH in the Troutdale area and 31 MPH in Hillsboro.

The severe wind combined with an extremely wet December caused many tree related outages. Uprooted trees and broken limbs caused damage to PGE overhead equipment and poles which made restoration difficult.

2. The Reliability reporting area and geographic area impacted.

PGE's entire service territory was impacted by the high winds. Most outages were in PGE's Eastern service territory.

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

At the peak of the storm, PGE had approximately 7,788 customers without power. During the storm, a total of 22,287 customers were affected.

4. The calculated SAIDI, SAIFI, and CAIDI impacts (i.e., "Event SAIDI¹, SAIFI², CAIDI³ and Tmed⁴") associated with the Major Event to on a reliability reporting area and a system-wide basis.

The following table represents the calculated impacts for SAIDI, SAIFI, CAIDI, Tmed, and system-wide basis totals:

	REL	AREAS	SYSTEM-WIDE BASIS	
	EASTERN ¹	SOUTHERN	WESTERN	PGE SERVICE TERRITORY
SAIDI ²	5.11	0.24	0.73	6.09
SAIFI ³	0.021	0.002	0.003	0.026
<i>CAIDI⁴</i>	241	119	230	231
Customers out at peak	7,426	61	301	7,788
T med				4.38

¹ Eastern and Central regions are now combined and represented as the Eastern region.

² SAIDI - System Average Interruption Duration Index

SAIFI - System Average Interruption Frequency Index
 CAIDI - Customer Average Interruption Duration Index

Major Storm/Event Exclusion Occurred: January 1, 2016 Page 3 of 3

Additional Reporting Related to the January 1, 2016 Storm Event:

Attachment A provides a summary of outages within PGE's service territory lasting 5 hours or longer.

For questions regarding this filing, please contact Terri Bowman at (503) 464-8854. Please direct all formal correspondence and requests to the following email address pqe.opuc.filings@pqn.com

Sincerely,

James Landstrom,

Manager, Transmission and Distribution Asset Management

Enclosures

Major Storm/Event Exclusion Period: January 1, 2016 Attachment A

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

44179 LELAND-B		44546 GLENC	43708 SYLVAI	44379 ROSEWAY	44374 ROSEWAY		_						43656 REDIAN					43458 LELAN	43650 LELAN	_					43862 G/ FNCL/ITE			_			_			43424 LELAND-B		_		_	44094 NAT PLEAS.			44581 CANE	43465 SYLVAI				43883 TEKTRON		441/3 ABLET		
LELAND-BEAVERCREEK 1/1/1		GLENCOE-GLISAN 1/1/1	SYLVAN-BARNES 1/1/1	ROSEWAY-ESPLANADE 1/1/1	ROSEWAY-ESPLANADE 1/1/1		PASS						REDIAND-HENRICI 1/1/1				I	LELAND-CARUS 1/1/1	LELAND-CARUS 1/1/1	_ELAND-BEAVERCREEK 1/1/1		`				SIX CORNERS-CHARMAN 1/1/1		ENTER					z	LELAND-BEAVERCREEK 1/1/1		~		TER		COLTON-DHOOGHE 1/1/1/	`	CANBY-13644 1/1/1	SYLVAN-PATTON 1/1/1	SYLVAN-BARNES 1/1/1	_	-	TEKTRONIX-SHANNON 1/1/1:		ARLETA-EOSTER 1/1/1	ĘNU	
1/1/16 5:02 PM 1/1/16		1/1/168:27 PM 1/2/16	1/1/16 11:23 AM 1/1/16	1/1/16 6:21 PM 1/1/16	1/1/166:18 PM 1/1/16	_					_		1/1/1610:25 AM 1/1/16					1/1/16 6:05 AM 1/1/16	1/1/16 10:12 AM 1/1/16		_					1/1/16 2:23 PM 1/1/16 1/1/16 1:32 PM 1/1/16			1/1/169:10 AM 1/1/16					1/1/165:23 AM 1/1/16 1/1/168:46 AM 1/1/16		_	_	_	1/1/167:37 PM 1/2/16				-	7					1/1/16 4:46 PM 1/2/16		
1/1/16 10:10 PM 308		1/2/16 1:48 AM 321	4:46 PM 324	1/1/16 11:50 PM 330	1/1/16 11:50 PM 332	_	_						1/1/16 5:00 PM 395					1/1/161:28 PM 443	1/1/16 5:44 PM 452	1/1/16 11:16 PM 453			-3-			1/1/16 10:34 PM 542	-			1/2/16 12:25 AM 590	_			1/1/16 5:10 PM 707 1/1/16 8:23 PM 697		_	_		1/2/168:34 AM 777	1/1/16 II:54 PM /9/		_		1/2/16 2:44 PM 990					1/2/16 9:01 PM 1,693		,
T 308	606 188,446	4 1,283	1 324	35 11,536	99 32,848	5 1,670			D.			235 90.945		27 8954			3 1,32/	41 18,158	44 19,873	1 453	2 936		2532 1,279,251	1 518	1 518	1 542	4 2,215	1 569	75 42,950	105 61,922	1 601	38 24,293	24 16.636	1 2,829	21 15,750	1 755	19 14,390	12 9,185		767 E8C E9E	1 798	69 55,132	12 11,178	1 990	18 20,899	1 1,165	1 1.188	2 2963	16 27 077	18 35,928	,
High Winds	_	High Winds	High Winds	Other - Environment / Weather	Other - Environment / Weather	High Winds	Limb on Line	High Winds	Limb on Line	Tree Uproated	Limb on Line	Primary Cable	High Winds			UH Conne	Overhead I ransformer	Tree Uprooted	High Winds	Tree Uprooted	High Winds		. Pro	Limb on Line	Limb on Line	offier - Office Brown narowate railur	High Winds	High Winds	High Winds	High Winds	Overhead Transformer	Fuse / Cutout	Tree Uprooted	Other - Environment / Weather	High Winds	High Winds	Other - Environment / Weather	High Winds	limb on line	High Winds	High Winds	High Winds	Limb on Line	Limb on Line	Hìgh Winds	OH Connector / Clamp / Jumper	Planned Outage	Overhead Transformer	Secondary Conductor On Connector / Clamp / Jumper	High Winds	
Weather	Vegetation	Weather	Weather	Unknown	Unknown	Weather	Vegetation	Weather	Supply - Transr	Vegetation	Vegetation	Equipment	Weather	<i>s</i> (^	Equipment	Equipment	Vegetation	Weather	Vegetation			ısr	SP	Vegetation	Vegetation				Weather	Equipment	Equipment	Vegetation	Weather	Weather	Weather	Unknown		-	Vegetation			_	Vegetation	Weather	Equipment	Planned	Equipment	Equipment	weather	Weather
SPIL4943 S LELAND RD	SC-RECL:2679	SP:1818 SE 46TH AVE	SP:287 NW MILLER RD	FUSE_OH:C1204C-1245_1	FUSE_DH:C1204D-2083	XFM_OH:A 25 32263	XFM_OH:B 10 20148	FUSE OH:D3317D-273	BKR:REDLAND R108	FUSE OH:D1202A-1305	XFM OH:B 25 34400	SW OHLB:2991	SP:21331 SJUBB RD	C-BKR-OAK GROVE SWYD R180	C-BKB:OAK GROVE SWYD R176	ELISE OH:D1113B-318	FUSE_OH:C42358-1753	FUSE_OH:D4311A-479	SP:23030 S FELLOWS RD	SP:18920 S FERGUSON RD	XFM_OH:B 15 49742	SP:14629 S QUAIL GROVE CIR	BKR:REDLAND R112	3416 SE CESAR E CHAVEZ BLVD	SP:3804 SW HAMILTON ST	SP:25711 SW REIN RD	SP:19665 V LYONS RU	SP:11835 SW BELVIDERE PL	SP:20453 S MATTOON RD	FUSE_OH:D3316D-242	XFM_OH:C 15 65140	FUSE_OH:C1104B-3772	FUSE OH:C3201D-181	XFM_OH:C 25 59572	FUSE_OH:D3318A-1815	SP:18906 S FERGUSON RD	FUSE_OH:D4333D-20	FUSE_OH:C1103B-5349	SP:15080 S MAPIFIANF RD	8FC1:6090	SP:25925 S SPRINGWATER RD	SP:218 SW PEACH COVE LN	FUSE_OH:D1107C-7677	XFM_OH:B 25 80266	FUSE_OH:D2336C-2777	FUSE_OH:D2334A-571	SP:11915 SW CENTER ST	FUSE DH:D2225C-3662	XEM_OH:R 50 9645	SB-6430 SE BOND AVE	ELIKE OH: D3114C-4291
EASTERN			WESTERN		WESTERN		_	_							FASTERN		_		EASTERN	EASTERN						WESTERN				EASTERN	_			WESTERN			SOUTHERN	_		WESTERN		~		WESTERN			_		FASTERN		
0,000364			0.000382	0.013633	0.038819 0.	0.001974	0.001645			0.009512			0.000467			0.003626	0.001569	0.021458	0.023486	0.000535	0.001106			0.000612	0.000612	0.000051	0.002618	0.000672	0.050758	0.073178 0.	0.000711	0.02871	0.01966	0.003344	0.018613	0.000892	0.017006	0.010855		0.000942	0.000943	0.065154	0.01321	0.00117	0.024698	0.001377	0.001404	0.003501	0.002003	0.042459	0.002459
1.185-06	0.000716161	4.73E-06	1.18E-06	4.14E-05	0.000116997	5.91E-06	4.73E-06	4.73E-06	0.002078759	2.48E-05	2.95E-05	0.000277719	1.18E-06	2.60E-05	0.000109906	8.275-06	3.55E-06	4.85E-05	5.20E-05	1.18E-06	2.36E-06	1.18E-06	0.002992278	1.18E-06	1.18E-06	1.18F-06	4./3E-06	1.18E-06	8.86E-05	0.000124087	1.18E-06	4.49E-05	2.84E-05	1.18F-06	2.48E-05	1.18E-06	2.25E-05	1.42E-05	1.18E-06	1.18E-U6	1.186-06	8.15E-05	1.42E-05	1.18E-06	2.13E-05	1.18E-06	1.18E-06	2.36F-D6	1 89F-05	1 195 06	30"3E1 C
308	311	321	324	330	332	334	348	362	372	383	384	387	395	407	407	7 2 7 8 2 4 8 2 4	442	443	452	453	468	502	205	518	518	54)	554	569	573	590	601	639	693	697	750	755	757	765	777	780	798	799	931	990	1161	1165	1188	1481	1697	1506	1006

43552	43849	Outage II	
WILLAMINA-BUELL	MT PLEASANT-SOUTH END	D Feeder Name	
1/1/16 9:22 AM	1/1/16 11:41 AM	Outage Start	
1/1/16 2:23 PM	1 1/1/16 4:45 PM	Outage End	
301	304	Duration	
1	₽	Duration Affected	Customers Custome
301	304	Minutes	Customer
Primary Conductor	High Winds	Cause Description	
Equipment	Weather	Major Cause	
FUSE_OH:C6605D-450_1	SP:18878 S ROSE RD	Interrupt Location	
SOUTHERN	EASTERN	Region	
	ĩ	-	
HERN 0.000356	N 0.00036	SAIDI	