



e-FILING REPORT COVER SHEET

Send completed Cover Sheet and the Report in an email addressed to: PUC.FilingCenter@state.or.us

REPORT NAME: Major Event Report

COMPANY NAME: Pacific Power

DOES REPORT CONTAIN CONFIDENTIAL INFORMATION? No Yes

If yes, please submit only the cover letter electronically. Submit confidential information as directed in OAR 860-001-0070 or the terms of an applicable protective order.

If known, please select designation: RE (Electric) RG (Gas) RW (Water) RO (Other)

Report is required by: OAR OAR 860-023-0161

Statute

Order

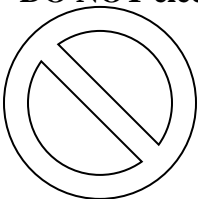
Other

Is this report associated with a specific docket/case? No Yes

If yes, enter docket number: RE 107

List applicable Key Words for this report to facilitate electronic search:
Major Event Report

DO NOT electronically file with the PUC Filing Center:



- Annual Fee Statement form and payment remittance or
- OUS or RSPF Surcharge form or surcharge remittance or
- Any other Telecommunications Reporting or
- Any daily safety or safety incident reports or
- Accident reports required by ORS 654.715

Please file the above reports according to their individual instructions.



825 NE Multnomah, Suite 2000
Portland, Oregon 97232

May 8, 2018

VIA ELECTRONIC FILING

Public Utility Commission of Oregon
201 High Street SE, Suite 100
Salem, OR 97301-3398

Attn: Filing Center

RE: RE 107—PacifiCorp Major Event Report

In compliance with OAR 860-023-0161, PacifiCorp d/b/a Pacific Power submits the enclosed report describing a major event that occurred March 29, 2018, in the company's Northeast Oregon reliability reporting region.

PacifiCorp requests to exclude the outage information for this event from both its network performance reporting and customer guarantee failure payments.

If you require further information regarding this report, please contact Heide Caswell, Director, Engineering and Environmental, at (503) 813-6216.

Sincerely,



Etta Lockey
Vice President, Regulation

Enclosure

cc: Lori Koho/Administrator, Safety, Reliability, and Security Division

Report to the Oregon Public Utility Commission Electric Service Reliability - Major Event Report

Event Date:	March 29, 2018
Date Submitted:	May 8, 2018
Primary Affected Locations:	Northeast Oregon (Hermiston Operating Area)
Primary Cause:	Damaged Equipment
Exclude from Reporting Status:	Yes
Report Prepared by:	April Brewer
Report Approved by:	Heide Caswell /Kevin Putnam/Pablo Arronte

Event Description

On the evening of March 29, 2018, Hermiston, Oregon, experienced an outage when a 69 kV jumper at the Hermiston Substation was damaged and faulted. The event affected feeds from the Hermiston and Hinkle Substations, affecting 1,758 customers with outage durations ranging from 1 hour 12 minutes to 9 hours 40 minutes.

Event Outage Summary	
# Interruptions (sustained)	2
Total Customer Interrupted (sustained)	1,758
Total Customer Minutes Lost	804,502
State Event SAIDI	1.32 Minutes
CAIDI	458
Major Event Start	3/29/18 12:00 AM
Major Event End	3/30/18 12:00 AM

Restoration Summary

At 10:39 PM on March 29, 2018, the conductor on the substation 69 kV jumper at the Hermiston substation failed causing the jumper to release, landing in the middle of the suspension insulating bells, damaging the bells. When the damage occurred distribution feeds from the Hermiston substation were lost. In addition, feed from the 69 kV line from Hermiston substation to Hinkle substation was also de-energized.

Crews responding to the scene assessed the damage, and were able to quickly re-energize Hinkle substation restoring 376 customers in 1 hour 12 minutes. Damaged equipment that feeds customers served directly from Hermiston substation was much more extensive and required repairs to be completed before service could be restored. Crews replaced suspension insulators, connector, and a 30 feet span of conductor. In addition three 12 kV jumpers were

also replaced. At 7:53 AM, on March 30th, 940 customers were restored; and 25 minutes later the remaining 442 customers were restored.

Figure 1 displays customer outages during the event as shown by their duration in reference to the restoration stages. Figure 2 includes photos of repaired equipment.

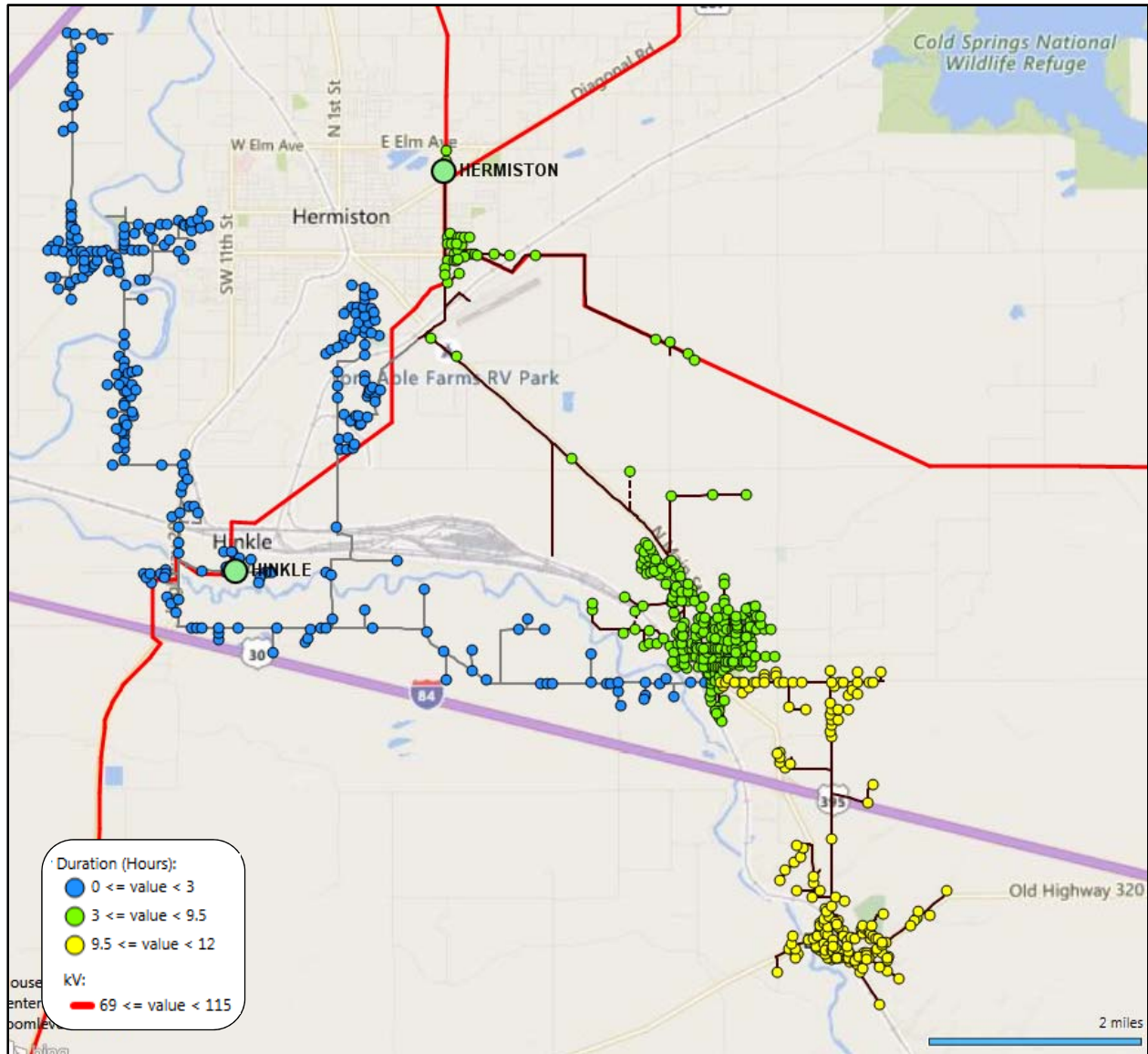


Figure 1 Customer outages by duration

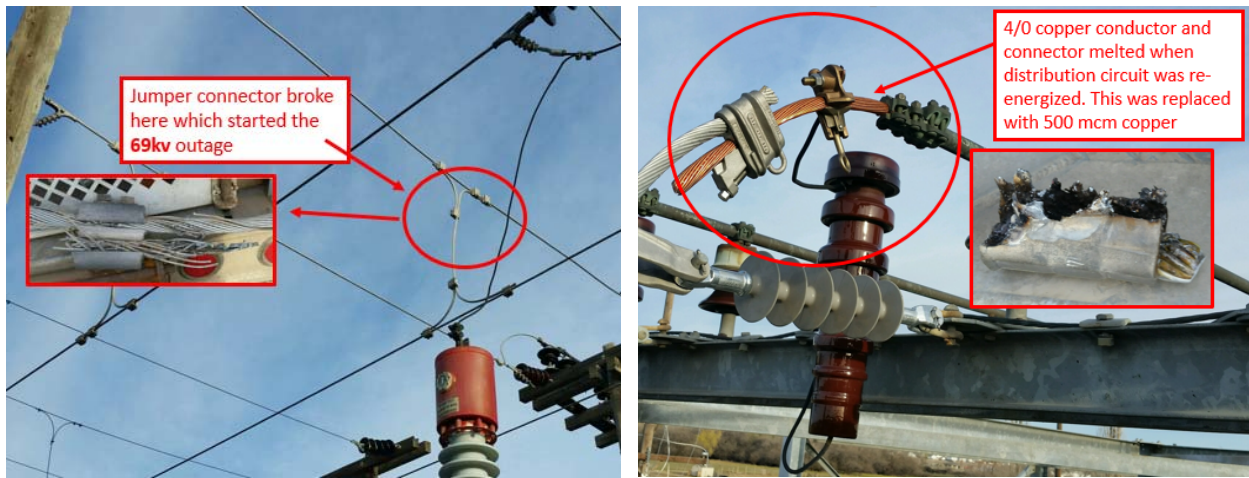


Figure 2 repaired equipment.

Restoration Intervals for Customers served in Oregon

Total Customers Sustained	< 3 Hrs.	3 - 24 Hrs.	24-48 Hrs.
1,758	376	1,382	0

Restoration Resources ¹

Personnel Resources	
General Foreman	1
Line Foreman	1
Line Partolman	1
Lineman Journeyman	2
Meter & Relay Technician	1

State Estimated Major Event Costs ²

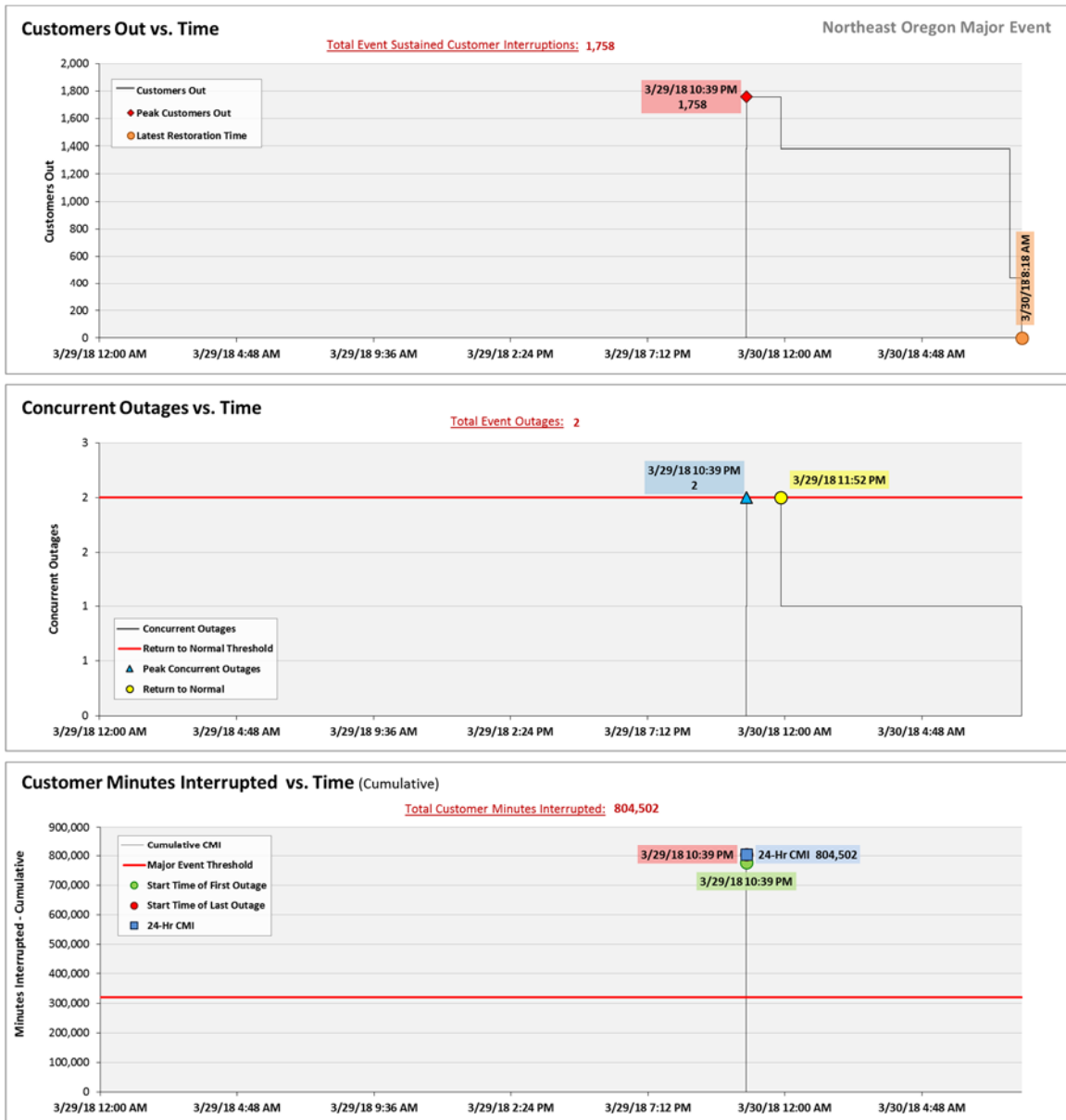
Estimate \$	Labor	Overheads	Total
Capital	\$8,370	\$444	\$8,814
Expense	\$0	\$0	\$0
Total	\$8,370	\$444	\$8,814

¹ Data provided represents specific system records for personnel, resources, and costs; and is specific to the event, not inclusive of state delineation. However additional resources whose participation did not get individually captured in transaction recording systems were utilized during the event, thus the data presented here effectively understates the resources, including cost, involved in restoring the system to normal.

Major Event Declaration

PacifiCorp designates these events and the consequences thereof a major event in accordance with OAR 860-023-0161. This is a major event because it exceeded the design or operating limits of the system, and the Major Event Threshold for Northeast Oregon as calculated annually by the company according to IEEE 1366-2003 methodology (commonly referred to as the 2.5 beta method). The company's 2018 Northeast Oregon reliability threshold is 321,673 customer minutes lost (12.90 Northeast Oregon SAIDI minutes) in a 24-hour period.

Event Detail



SAIDI, SAIFI, CAIDI by Reliability Reporting Region

Please see the attached system-generated reports.

PacifiCorp Major Event Report

Customer Analysis

Northeast Oregon		Customer Analysis 3/29/2018 through 3/30/2018					Customers Restored by Intervals								Major Event Only - metric by operating area customer counts		
PacifiCorp Major Events Report Customer Analysis*		Sustained Customers Off	% Sustained Customers Off	CML	Number of Sustained Interruptions	Customer Count	< 5 min	5 min - 3 hrs	3 hrs - 24 hrs	24 hrs - 48 hrs	48 hrs - 72 hrs	72 hrs - 96 hrs	96 + hrs	% Sustained Customers Restored in 3 Hours PS4	SAIDI	SAIFI	CAIDI
PC	PACIFICORP	1,758	0%	804,502	2	1,933,597	-	376	1,382	-	-	-	-	21%	0.42	0.001	458
PP	Pacific Power	1,758	0%	804,502	2	790,086	-	376	1,382	-	-	-	-	21%	1.02	0.002	458
OR	Oregon	1,758	0%	804,502	2	607,462	-	376	1,382	-	-	-	-	21%	1.32	0.003	458
OR	HERMISTON	1,758	37%	804,502	2	4,696	-	376	1,382	-	-	-	-	21%	171.32	0.374	458

*Only current event specific metric impact shown. Does not include values from other events which may have occurred in other regions during the same time period.

		Customer Interrupted by Date 3/29/2018 through 3/30/2018					Customers Restored by Intervals								Major Event Only - metric by state customer counts		
Date*		Sustained Customers Off	% Sustained Customers Off	CML	Number of Sustained Interruptions	Average Customer Count	< 5 min	5 min - 3 hrs	3 hrs - 24 hrs	24 hrs - 48 hrs	48 hrs - 72 hrs	72 hrs - 96 hrs	96 + hrs	% Sustained Customers Restored in 3 Hours PS4	SAIDI	SAIFI	CAIDI
3/29/2018		1,758	0%	804,502	2	607,462	-	376	1,382	-	-	-	-	21%	1.32	0.003	458

Data as of
4/20/2018

PacifiCorp Major Event Report

SSC by State Analysis

Northeast Oregon		Event 03/29/18 through 03/30/18						Month 03/01/18 through 03/31/18						YTD 01/01/18 through 03/31/18					
		Major Events Included			Major Event Excluded			Major Events Included			Major Events Excluded*			Major Events Included			Major Events Excluded*		
PacifiCorp Major Events Report SSC by State		SAIDI	SAIFI	CAIDI	SAIDI	SAIFI	CAIDI	SAIDI	SAIFI	CAIDI	SAIDI	SAIFI	CAIDI	SAIDI	SAIFI	CAIDI	SAIDI	SAIFI	CAIDI
		PC	PACIFICORP	0.62	0.003	202	0.20	0.002	95	12.00	0.099	122	11.31	0.090	126	12.00	0.099	122	11.31
PP	Pacific Power	1.20	0.004	326	0.18	0.001	123	12.43	0.089	139	10.74	0.068	158	12.43	0.089	139	10.74	0.068	158
OR	Oregon	1.55	0.005	327	0.23	0.002	123	12.85	0.074	174	11.53	0.071	163	12.85	0.074	174	11.53	0.071	163
OR	ENTERPRISE	-	-	-	-	-	-	0.11	0.000	257	0.11	0.000	257	0.11	0.000	257	0.11	0.000	257
OR	HERMISTON	1.32	0.003	458	-	-	-	1.33	0.003	449	0.01	0.000	103	1.33	0.003	449	0.01	0.000	103
OR	PENDLETON	-	-	-	-	-	-	0.02	0.000	101	0.02	0.000	101	0.02	0.000	101	0.02	0.000	101
OR	WALLA WALLA	-	-	-	-	-	-	0.08	0.001	86	0.08	0.001	86	0.08	0.001	86	0.08	0.001	86

*may include other regional major event exclusions during the same period. Operating areas are calculated by the state frozen customer count metrics.

Data as/of
4/20/2018