

October 13, 2016

***VIA ELECTRONIC FILING  
AND OVERNIGHT DELIVERY***

Steven V. King  
Executive Director and Secretary  
Washington Utilities and Transportation Commission  
1300 S. Evergreen Park Drive S.W.  
P.O. Box 47250  
Olympia, WA 98504-7250

**RE: Major Event Report—July 22, 2016**

Pacific Power & Light Company (Pacific Power or Company), a division of PacifiCorp, is claiming major event exclusion for the outages that affected its Sunnyside and Yakima service area on July 22, 2016.

The basis for exclusion is the number of customers affected and the damage that occurred to the Company's facilities in each event. Please find attached the details regarding the major event including costs incurred, restoration resources, number of customers off supply, customer minutes lost, and SAIDI, SAIFI, and MAIFI figures.

The Company will exclude outage information for this event from its network performance reporting and from customer guarantee failure payments.

Please direct any informal inquiries regarding this filing to Ariel Son, Manager, Regulatory Projects, at (503) 813-5410.

Sincerely,



R. Bryce Dalley  
Vice President, Regulation

Enclosures

**Report to the Washington Utilities and Transportation Commission**  
**Electric Service Reliability - Major Event Report**

Event Date: July 22, 2016  
 Date Submitted: October 13, 2016  
 Primary Affected Locations: Sunnyside/Yakima  
 Primary Cause: Loss of Supply  
 Exclude from Reporting Status: Yes  
 Report Prepared by: April Brewer  
 Report Approved by: Heide Caswell / Kevin Putnam / David O'Neil / Steve Henderson

**Event Description**

On July 22, 2016, Sunnyside and Yakima operating areas, experienced a system average interruption frequency index-driven (SAIFI)-based major event when a loss of transmission event occurred on the Bonneville Power Administration (BPA) 230kV transmission feed. Initial indication is that the outage occurred as a result of a lightning strike on the BPA feed, causing Pacific Powers Outlook substation to trip open. The outage affected 15,205<sup>1</sup> customers with all customer restorations completed within 13 minutes. Sustained interruptions were experienced by 14% of the combined total customers in the Sunnyside and Yakima operating areas.

<b>Event Outage Summary</b>	
<b># Interruptions (sustained)</b>	15
<b>Total Customer Interrupted (sustained)</b>	15,206
<b>Total Customer Minutes Lost</b>	187,013
<b>Event SAIDI</b>	1.40 Minutes
<b>CAIDI</b>	12
<b>Major Event Start</b>	7/22/16 12:00 AM
<b>Major Event End</b>	7/23/16 12:00 AM

<sup>1</sup> A SAIFI-based major event threshold (as identified in PacifiCorp's reporting plan, pursuant to Washington Administrative Code (WAC) 480-100-393 & 398 Electric Reliability Annual Monitoring and Reporting Plan) is defined as an event in which more than 10% of an operating area's customers are simultaneously without service as a result of a sustained interruption. Sunnyside operating area's Calendar 2016 Frozen Customer Count is 24,317 customers and Yakima's 2016 Frozen Customer Count is 80,605, for a combined total of 104,922.

## Restoration Summary

On the morning of July 22, 2016, a loss of transmission feed from BPA Midway substation to PacifiCorp's Outlook substation occurred. The loss of transmission affected power feeds from the Outlook substation to four other substations, feeding 13 distribution feeds, and approximately 15,205 customers. During the summer fire season automated system testing is turned off to allow personnel proper time to diagnose an outage. When the circuit breaker at the Outlook substation opened, dispatcher turned off reclosing prior to reenergizing this section of line. Once it was confirmed that the Midway substation was stable and energized, dispatch closed the circuit breaker at the Outlook substation restoring feeds and service to all substations and circuits downstream.

Impact to Pacific Power customers was increased during this event given an off-normal system configuration as part of the ongoing construction at the Union Gap Substation. Union Gap Substation is currently undergoing a multi-year rebuild project that includes constructing two new buses and adding a third transformer for improved system reliability, increasing load service to comply with North American Electric Reliability Corporation standards. Following completion of the Union Gap Substation rebuild in 2017, the system will be reconfigured such that customers will not experience a loss of supply for faults on the BPA line. A discussion with BPA regarding possible mitigation options is currently in the process of being scheduled.

There were no company or commission customer complaints made regarding the major event.

## Restoration Intervals

Total Customers Sustained	< 3 Hrs.	3 - 24 Hrs.	24+ Hrs.
15,206	15,206	0	0

## Restoration Resources

No additional restoration resources were used during this event.

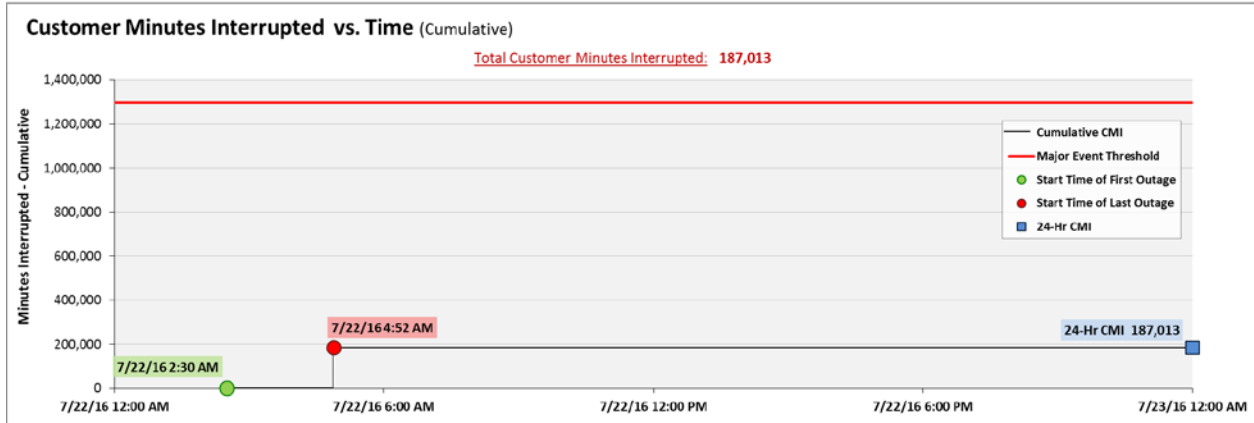
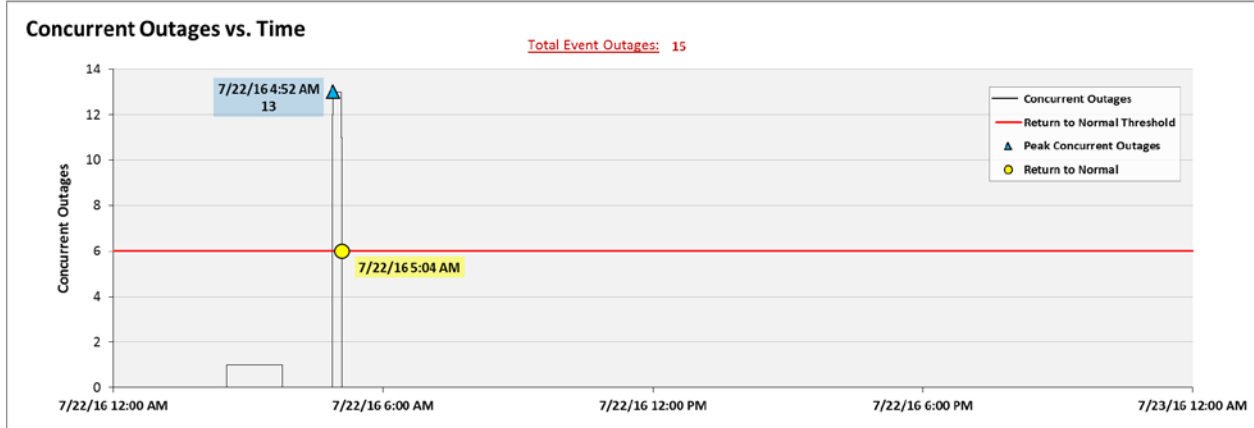
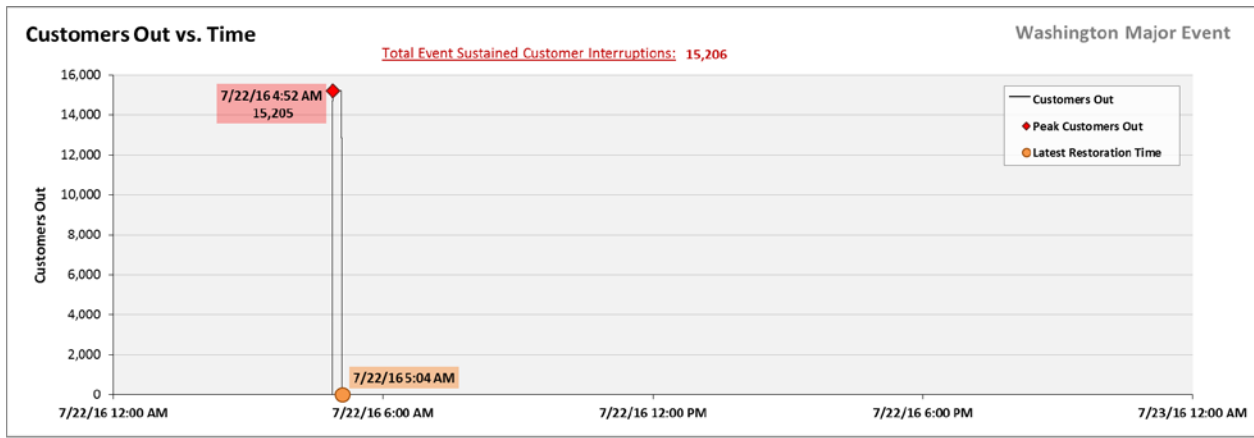
## State Estimated Major Event Costs

No additional costs were accrued during this event.

## Major Event Declaration

Pacific Power is requesting designation of this event and its consequences to be classified as a "Major Event" for exclusion from underlying network performance reporting. This major event exceeded the company's current Washington system average interruption frequency index-driven (SAIFI) threshold of 10% total operating area customers served sustained interruptions (15,206 customers interrupted out of a combined total of 104,922 Sunnyside and Yakima operating area customers, or 14% of the operating area customers) simultaneously in a 24-hour period.

# Event Detail



## SAIDI, SAIFI, CAIDI by Reliability Reporting Region

Please see the attached system-generated reports.

**Date**

**Data as/of** 8/15/2016

**Fiscal Year** FY2017

**Event Begin Date/Time** 07/22/2016 12:00:00 AM **Event Begin Time**  
**Event End Date/Time** 07/23/2016 12:00:00 AM **Event End Time**

**Month Begin** 7/1/2016  
**Month End** 7/31/2016

**Year Begin** 1/1/2016  
**Year End** 7/31/2016

**State** Washington

**Comments:** **Tag** **filed**

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# PacifiCorp Major Event Report Customer Analysis

Washington	Customer Analysis 7/22/2016 through 7/23/2016					Customers Restored by Intervals						Major Event Only - metric by operating area customer counts				
	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	15,206	1%	187,013	15	1,868,631	-	15,206	-	-	-	-	-	100%	0.10	0.008	12
PP	15,206	2%	187,013	15	771,210	-	15,206	-	-	-	-	-	100%	0.24	0.020	12
WA	15,206	11%	187,013	15	133,235	-	15,206	-	-	-	-	-	100%	1.40	0.114	12
WA	11,025	45%	136,195	8	24,317	-	11,025	-	-	-	-	-	100%	5.60	0.453	12
WA	4,181	5%	50,818	7	80,605	-	4,181	-	-	-	-	-	100%	0.63	0.052	12

\*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.

Date*	Customer Interrupted by Date 7/22/2016 through 7/23/2016					Customers Restored by Intervals						Major Event Only - metric by state customer counts				
	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
7/22/2016	15,206	11%	187,013	15	133,235	-	15,206	-	-	-	-	-	100%	1.40	0.114	12

Data as of 8/15/2016
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# PacifiCorp Major Event Report

## SSC by State Analysis

	Washington	Event						Month						YTD								
		07/22/16 through 07/23/16			07/01/16 through 07/31/16			07/01/16 through 07/31/16			01/01/16 through 07/31/16			FY2017			Major Events Excluded*					
		SAIDI	SAIFI	CAIDI	SAIDI	SAIFI	CAIDI	SAIDI	SAIFI	CAIDI	SAIDI	SAIFI	CAIDI	SAIDI	SAIFI	CAIDI	SAIDI	SAIFI	CAIDI	SAIDI	SAIFI	CAIDI
	<b>PacifiCorp</b>																					
	<b>Major Events Report</b>																					
	<b>SSC by State</b>																					
PC	PACIFICORP	0.26	0.009	28	0.16	0.001	139	19.32	0.170	113	15.16	0.131	116	127.45	0.903	141	73.54	0.651	113			
PP	Pacific Power	0.38	0.020	19	0.14	0.001	180	13.40	0.144	93	11.94	0.119	100	113.74	0.845	135	69.03	0.643	107			
WA	Washington	1.40	0.114	12	0.23	0.004	57	5.98	0.149	40	4.58	0.034	133	56.14	0.567	99	46.01	0.361	127			
WA	SUNNYSIDE	1.02	0.083	12	-	-	-	2.31	0.088	26	1.29	0.006	234	15.13	0.193	78	10.65	0.082	130			
WA	WALLA WALLA	-	-	-	-	-	-	0.61	0.003	231	0.61	0.003	231	13.52	0.127	106	8.26	0.065	128			
WA	YAKIMA	0.38	0.031	12	-	-	-	3.06	0.058	53	2.68	0.026	102	27.49	0.246	112	27.10	0.215	126			

\*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
<b>8/15/2016</b>