

**Report to the Washington Utilities and Transportation Commission**

**Electric Service Reliability - Major Event Report**

Event Date: October 13, 2021  
Date Submitted: December 7, 2021  
Primary Affected Locations: Sunnyside  
Primary Cause: Loss of Transmission Line  
Exclude from Reporting Status: Yes  
Report Prepared by: April Brewer  
Report Approved by: Heide Caswell / Carrie Laird

**Event Description and Restoration Summary**

<b>Event Outage Summary</b>	
<b># Interruptions (sustained)</b>	11
<b>Total Customers Interrupted (sustained)</b>	10,426
<b>Total Customer Minutes Lost</b>	209,149
<b>State Event SAIDI</b>	1.53 Minutes
<b>CAIDI</b>	20
<b>Major Event Start</b>	10/13/21 12:00 AM
<b>Major Event End</b>	10/14/21 12:00 AM

At 2:55 p.m. on October 13, 2021, Sunnyside, Washington, experienced a SAIFI-based major event when Bonneville Power Administration (BPA) and Pacific Power (PP) were conducting trip testing. The BPA is currently undergoing construction activities to its transmission system in the area, which requires various relay testing throughout the process. At the time of the outage the North Bonneville(BPA) - Outlook(PP) - Midway(BPA) line was undergoing relay tests based on a BPA-developed test plan. The plan included BPA personnel isolating BPA relay #1 while Pacific Power personnel isolated the corresponding relay A. BPA relay #2 and Pacific Power relay B were kept in service to provide ongoing protection to the transmission line.

However, during the testing, BPA’s relay #1 was not fully isolated and as a result the BPA tester also ended up sending signals to the in-service BPA relay #2, which in turn sent a signal to Pacific Power’s in-service relay B. This tripped two circuit breakers in the Outlook substation, which resulted in a loss of supply to distribution feeds out of the Toppenish and Punkin Center Substations. The Toppenish Substation lost feed to six distribution circuits serving a total of 6,257 customers. The Punkin Center Substation lost feed to three distribution circuits, serving 4,069 customers. In total the event impacted 10,326 customers for 18 minutes. During the event the company took immediate actions to restore service to customers.

To date, there have been no commission or company complaints concerning this major event.

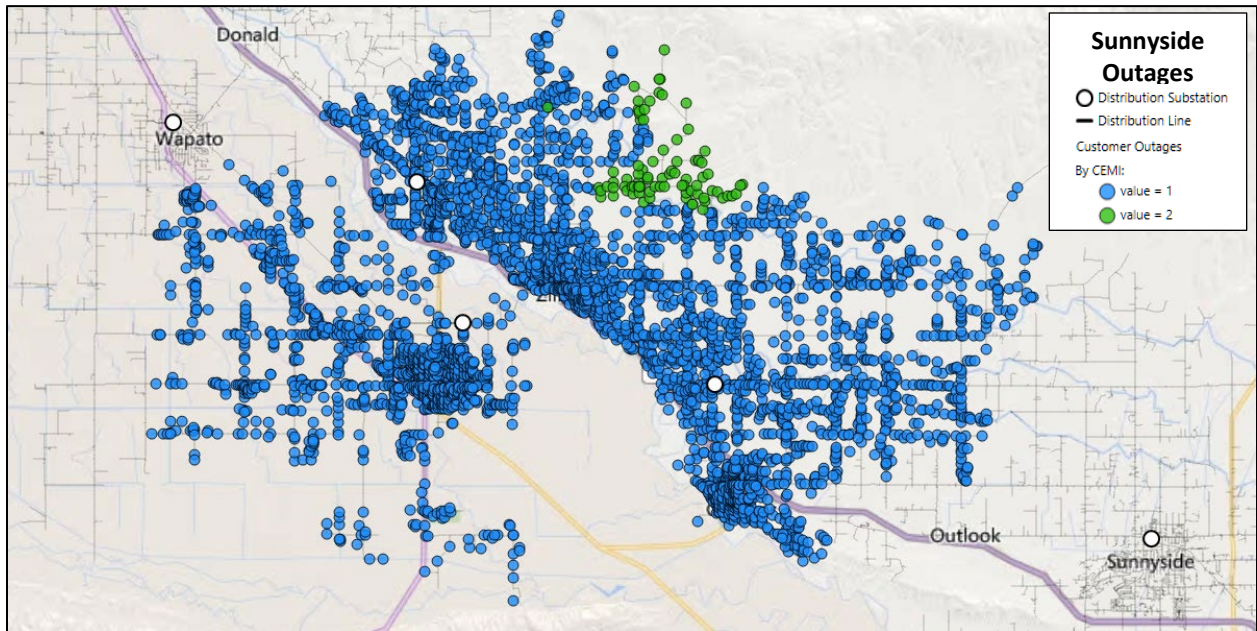


Figure 1. Sunnyside Major event outages.

### Restoration Intervals

Total Customers Sustained	< 3 Hrs.	3 - 24 Hrs.	24-48 Hrs.
10,426	10,326	100	0

### Restoration Resources <sup>1</sup>

Personnel Resources	
Substation crewmembers	2
<b>Total</b>	<b>2</b>

### State Estimated Major Event Costs

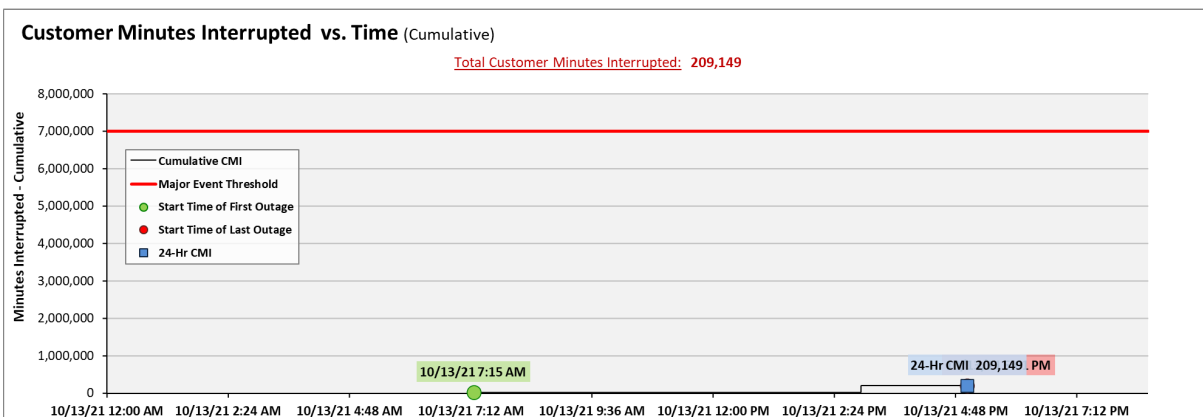
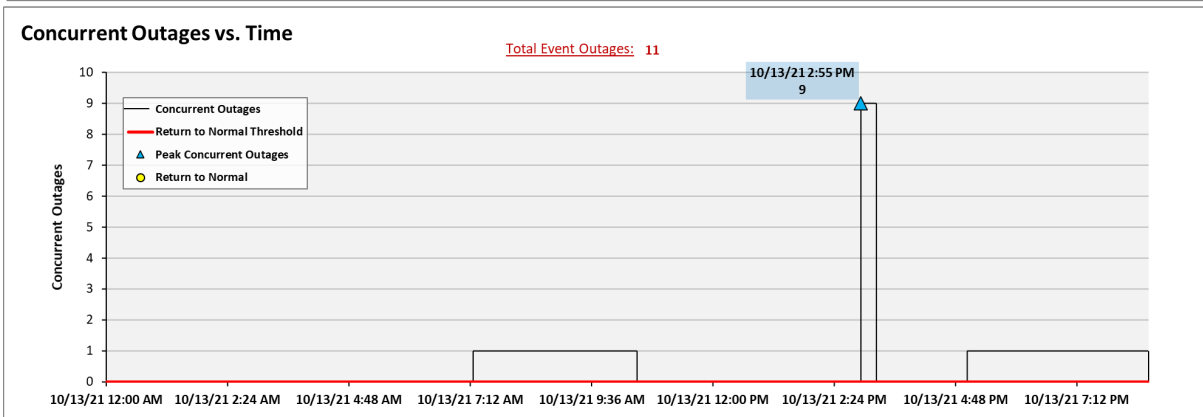
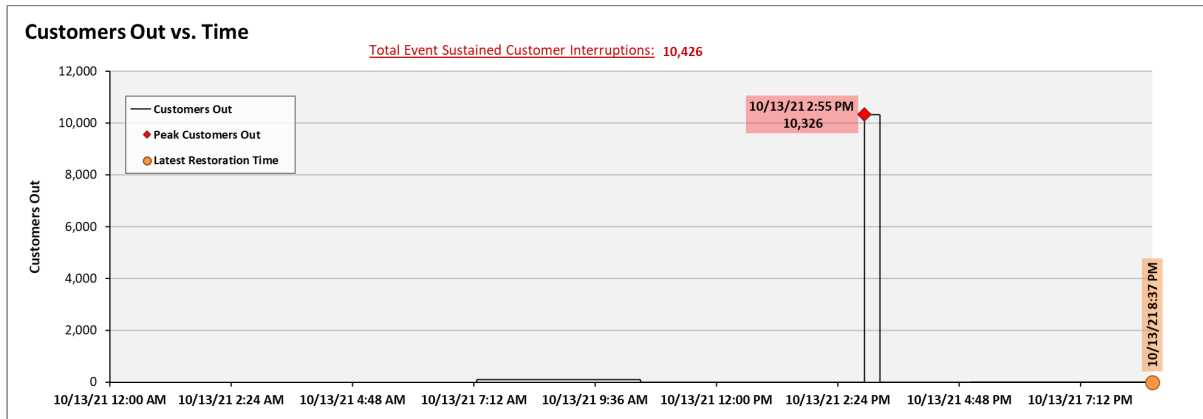
Estimate \$	Labor	Contracts	Material	Total
Capital	\$0	\$0	\$0	\$0
Expense	\$441	\$0	\$0	\$441
<b>Total</b>	<b>\$441</b>	<b>\$0</b>	<b>\$0</b>	<b>\$441</b>

<sup>1</sup> 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 may have been 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

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 (10,426 customers were interrupted out of 24,993 Sunnyside operating area customers, or 42% 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.