

Report to the Washington Utilities and Transportation Commission

Electric Service Reliability - Major Event Report

Event Date: August 21, 2021
Date Submitted: November 2, 2021
Primary Affected Locations: Walla Walla
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

| Event Outage Summary | |
|--|------------------|
| # Interruptions (sustained) | 5 |
| Total Customers Interrupted (sustained) | 7,314 |
| Total Customer Minutes Lost | 762,127 |
| State Event SAIDI | 5.57 Minutes |
| CAIDI | 104 |
| Major Event Start | 8/21/21 12:00 AM |
| Major Event End | 8/22/21 12:00 AM |

On the morning of August 21, 2021, Walla Walla, Washington, experienced a SAIFI-based major event due to a loss of transmission feed and damaged side-stack distribution insulator mounted on a transmission structure. The event occurred during a lightning storm, which was suspected to be the cause of the transmission line outage, that damaged the equipment. At 6:55 a.m., 7,314 customers fed from five distribution circuits out of the Prospect Point Substation experienced an outage. Crews were quickly dispatched to patrol the transmission line and survey any damage to the substation. While patrolling the line crews found the damaged side-stack insulator. After determining the damage, substation crews restored power to four of the five affected distribution feeds, restoring power to 6,470 customers in one hour and 24 minutes. Crew members began isolating the area of the damaged equipment and began restoring power to the remaining 844 customers while the repairs were completed. These customers were out for a duration ranging from four hours and six minutes to six hours and six minutes.

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

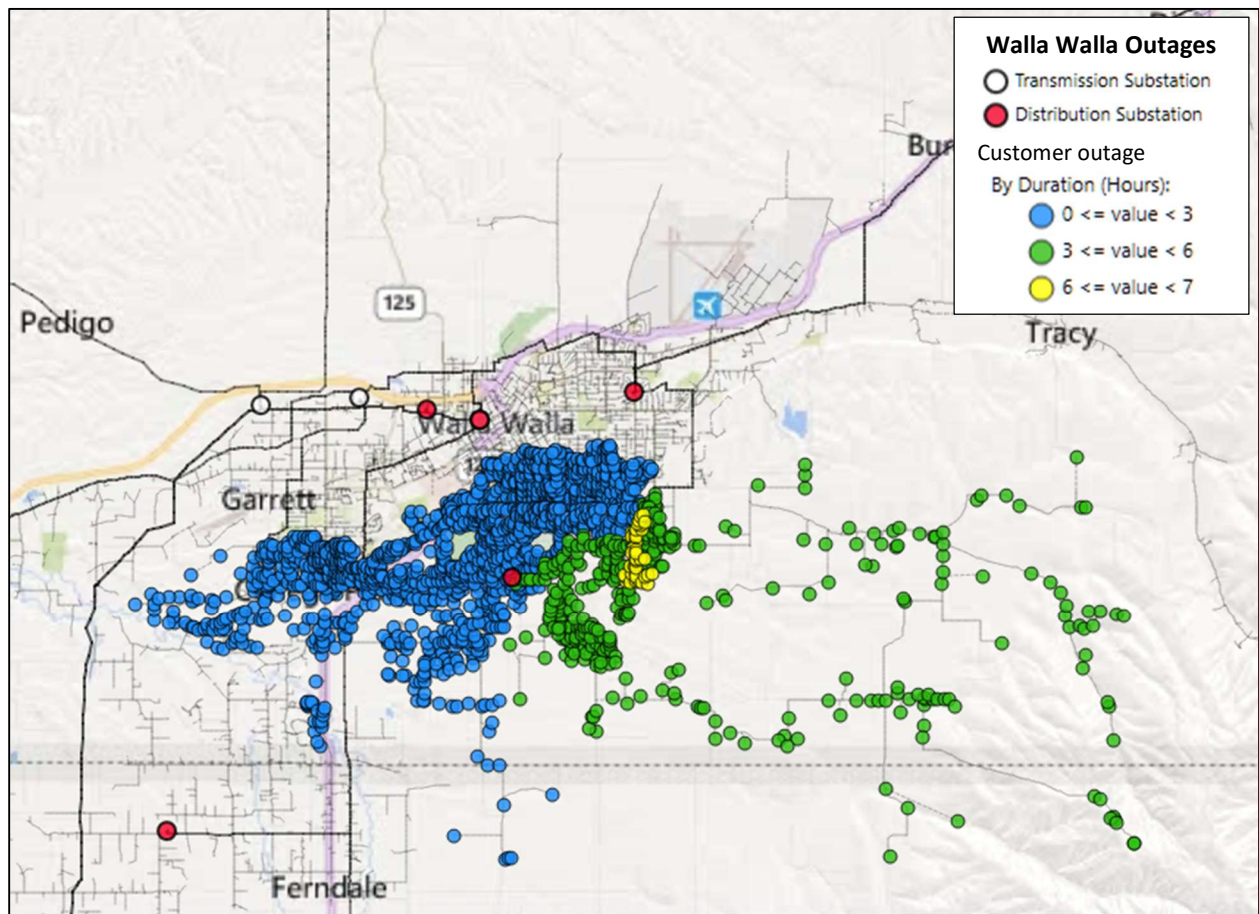


Figure 1. Walla Walla Major event outages.

Restoration Intervals

| Total Customers Sustained | < 3 Hrs. | 3 - 24 Hrs. | 24-48 Hrs. |
|---------------------------|----------|-------------|------------|
| 7,314 | 6,470 | 844 | 0 |

Restoration Resources ¹

| Personnel Resources | |
|------------------------|----------|
| Linemen | 4 |
| Estimator | 1 |
| Substation crewmembers | 2 |
| Foreman | 1 |
| Total | 8 |

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 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.

| Materials | |
|------------------|----------|
| Insulator | 1 |

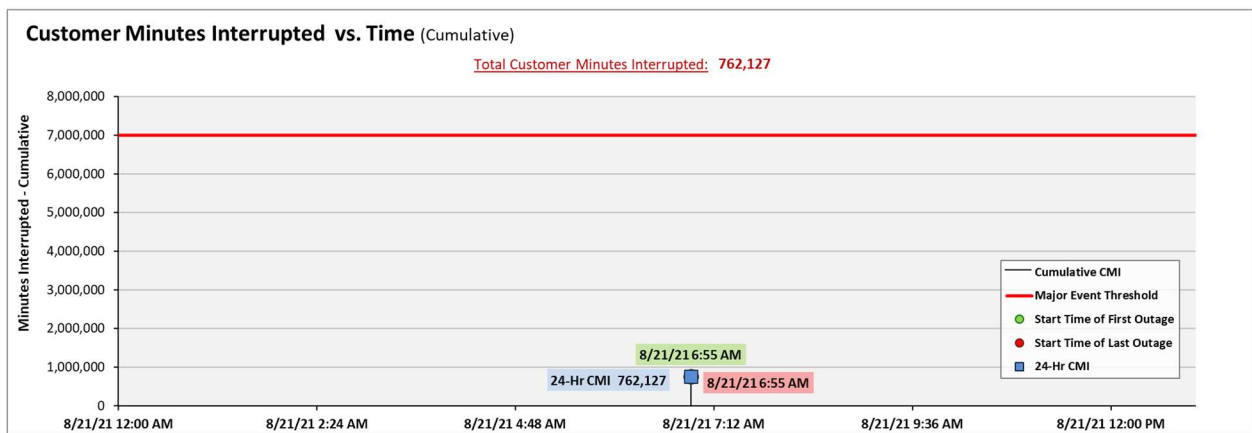
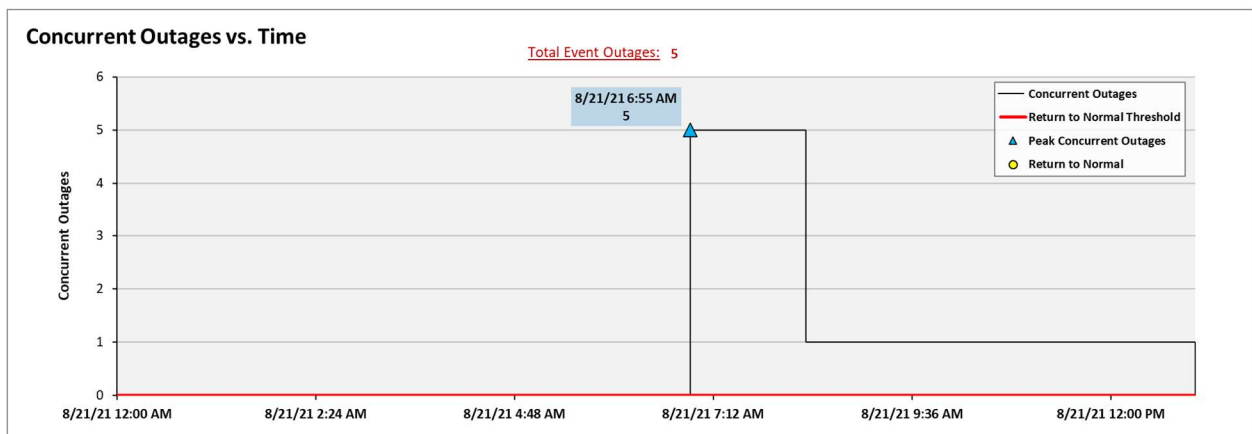
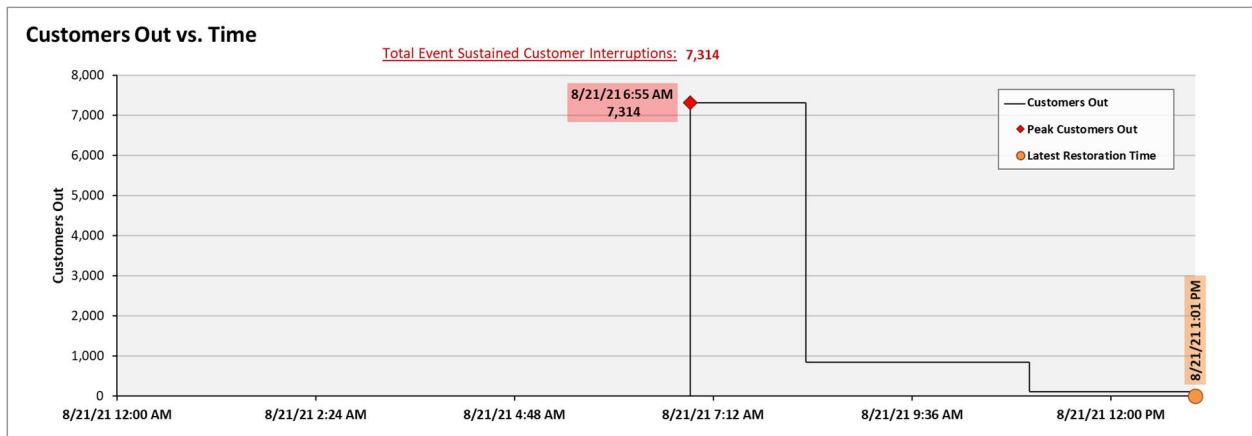
State Estimated Major Event Costs

| Estimate \$ | Labor | Contracts | Material | Overhead | Total |
|--------------------|----------------|------------------|-----------------|-----------------|----------------|
| Capital | \$4,143 | \$0 | \$289 | \$532 | \$4,956 |
| Expense | \$3,991 | \$0 | \$0 | \$30 | \$0 |
| Total | \$8,134 | \$0 | \$289 | \$562 | \$4,956 |

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 (7,314 customers were interrupted out of 28,298 Walla Walla operating area customers, or 26% 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.