

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

Event Date: March 14, 2020
 Date Submitted: April 24, 2020
 Primary Affected Locations: Sunnyside
 Primary Cause: Loss of Transmission line
 Exclude from Reporting Status: Yes
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 Report Approved by: Heide Caswell / Carrie Laird / Pablo Arronte / Mark Vanwinkle

Event Outage Summary	
# Interruptions (sustained)	13
Total Customer Interrupted (sustained)	10,342
Total Customer Minutes Lost	136,348
State Event SAIDI	1.00 Minutes
CAIDI	13
Major Event Start	3/14/20 12:00 AM
Major Event End	3/15/20 12:00 AM

Event Description and Restoration Summary

At 5:37 a.m. on March 14, 2020 Sunnyside, Washington, experienced a SAIFI-based major event when 42% of its served customers experienced an outage lasting 6 minutes. In the early morning of March 14th, during high wind, snow/sleet/rain and cold temperatures, a transformer low oil alarm precipitated immediate correction by local substation crews. While they were performing this corrective maintenance the substation circuit switcher and circuit breakers operated, de-energizing feeds to the Toppenish and Punkin Center Substations. These two distribution substations feed a total of nine circuits, serving approximately 10,300 customers. The crew quickly remediated the situation and at 5:43 a.m. power was restored back to the two distribution substations, re-energizing power to the customers.

Additionally during the day, the weather, which was a combination of rain/snow/sleet and cool temperatures caused many pole fires and wind related outages that day. To date, there have been no company or commission customer complaints made regarding the major event.

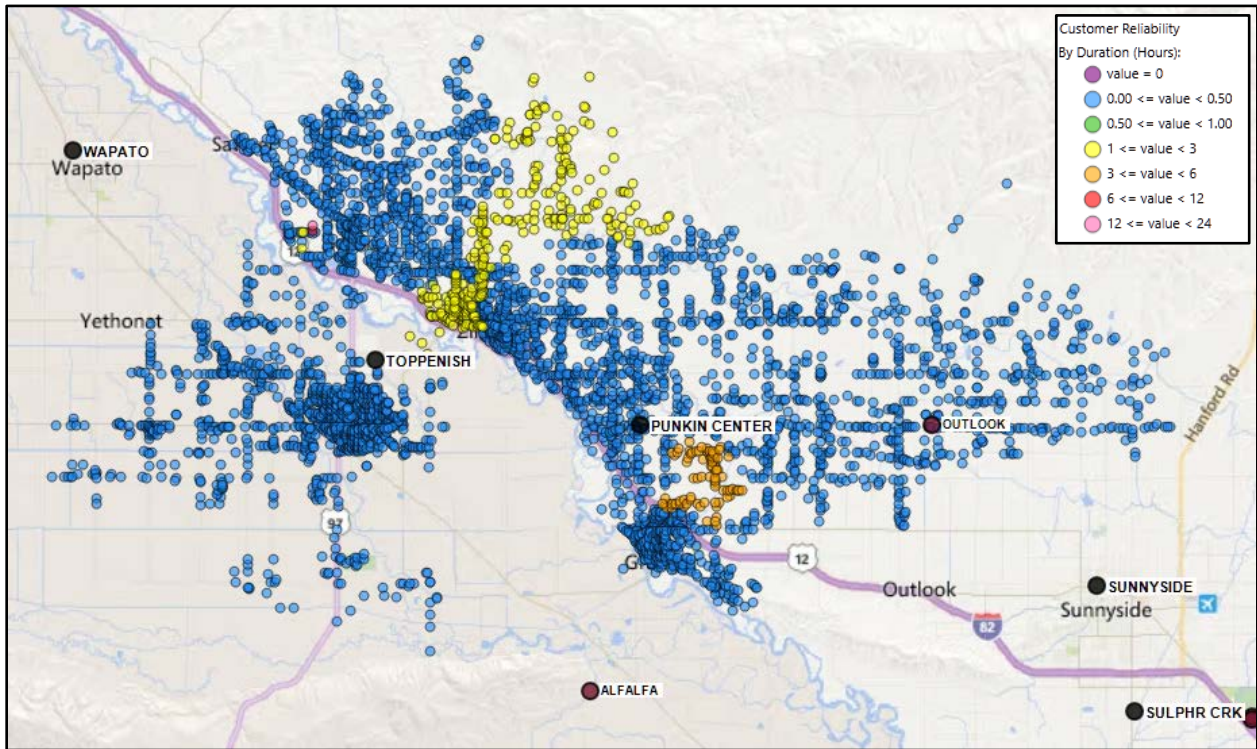


Figure 1: Outages experienced during the major event by duration.

Restoration Intervals

Total Customers Sustained	< 3 Hrs.	3 - 24 Hrs.	24-27 Hrs.
10,342	10,181	161	0

Restoration Resources ¹

Personnel Resources	
Estimator	1
Field Services Specialist	2
General Foreman	1
Line Foreman	2
Line Patrolman	1
Lineman Representative	2
Lineman	5
Logistics Worker	4
Substation Relay Tech	1
Service Coordinator	2
Serviceman	1
Substation Wireman	1
Substation Wireman Foreman	2
Contractor	4
Total	29

Equipment	
# Crossarms	3
Insulators	27
Cutouts	13
Line splices	14

State Estimated Major Event Costs ¹

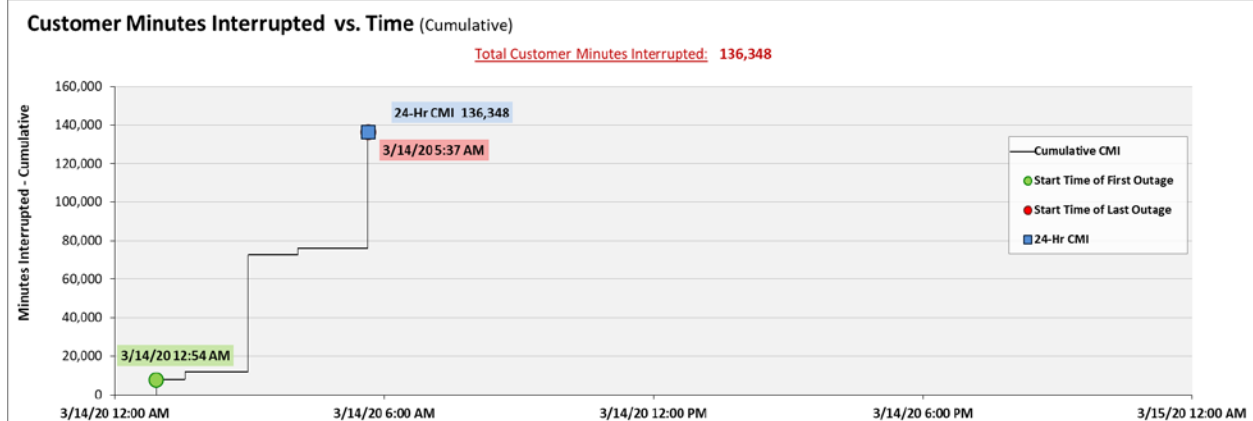
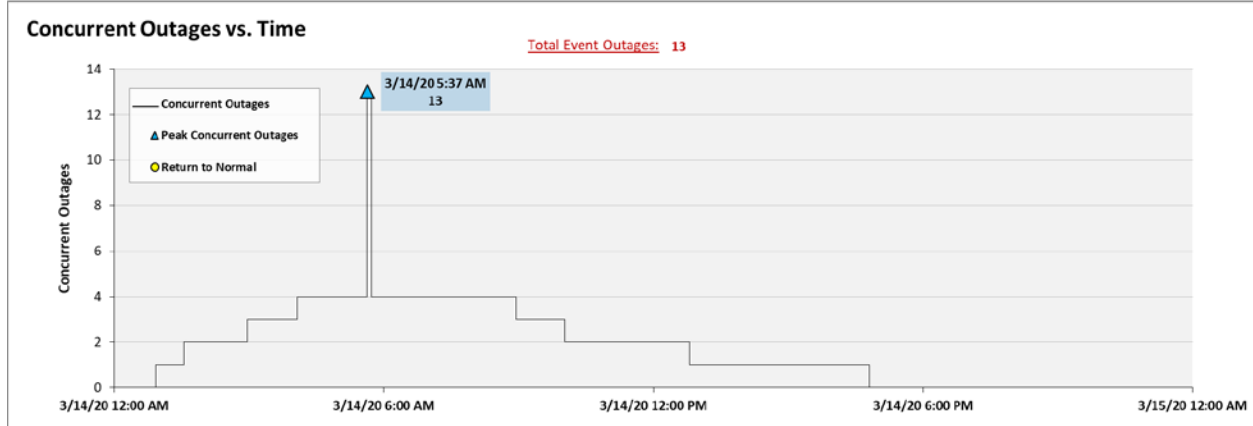
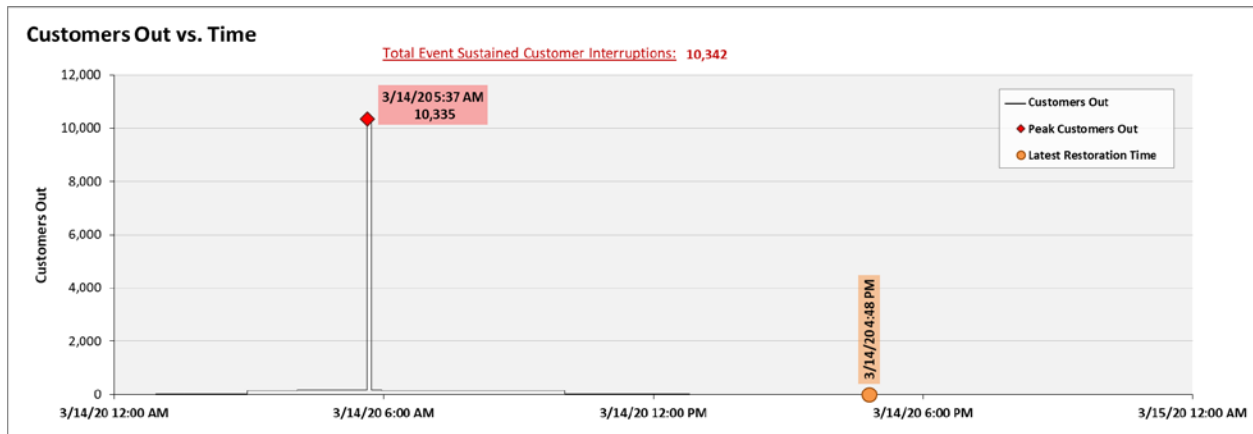
Estimate \$	Labor	Contracts	Material	Overheads	Total
Capital	\$0	\$0	\$0	\$0	\$0
Expense	\$32,295	\$12,295	\$4,294	\$3,180	\$52,714
Total	\$32,295	\$12,295	\$4,294	\$3,180	\$52,714

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 (10,335 customers were interrupted out of 24,783 Sunnyside operating area customers, or 42% of the operating area customers) simultaneously in a 24-hour period.

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. The current values do not reflect the current procurement of a replacement transformer nor the future personnel work billed to the project when installed.

Event Detail



SAIDI, SAIFI, CAIDI by Reliability Reporting Region

Please see the attached system-generated reports.