

Report to the Utah Public Utility Commission
Electric Service Reliability - Major Event Report UT-15-1

Event Date: April 14, 2015 8:06am – April 16, 2015 8:18pm (inclusive)

Date Submitted: May 21, 2015

Primary Affected Locations: Salt Lake City Metro, Jordan Valley, Park City

Primary Cause: Wind and snow storm

Exclude from Reporting Status: Yes

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Report Approved by: Heide Caswell / Dan Bodily / Scott Derrick / Ken Shortt / Jody Berger

Event Description

A spring storm bringing light rain, followed by high winds and heavy, wet snowfall to various regions of Utah caused substantial damage to Rocky Mountain Power’s facilities and a significant impact on its reliability performance from April 14, 2015 through April 16, 2015. Early in the event light rain, which coincided with salt and pollution-laden hardware, caused pole fires which necessitated replacement of a significant amount of poles and crossarms. As the storm continued, wind-blown and snow-laden trees toppled into electrical facilities, blowing fuses, pulling wire down or breaking poles.

Across the state sustained interruptions were experienced by approximately 10% of the company’s Utah customers. While Salt Lake City and the surrounding area were impact most significantly, other areas to the north and south experienced a high percentage of customer outages compared to the total customers served within those areas.

Event Outage Summary¹	
# Interruptions (sustained)	881
Total Customer Interrupted (sustained)	86,444
Total Customer Minutes Lost	29,958,438
Event SAIDI	34.47 Minutes
CAIDI	347
Major Event Start	4/14/15 8:06AM
Major Event End	4/16/15 8:18PM

¹ System level metrics for this major event include interruptions experienced by Idaho customers served from circuits sourced from Utah; this discrepancy leads to two different metrics reported in this document. These customer metrics are included in the event’s summary reports. Annual metrics reported do not include customers not located in Utah.

Restoration Summary

Restoration activities utilized 327 operations personnel. Overall, 46% of the sustained customer interruptions were restored within 3 hours, while 3% of the customers who experienced a sustained outage were without power for longer than 24 hours. The longest customer interruption on a distribution line occurred in the Jordan Valley district on Brighton #12, affecting 40 customers for two days 16 hours due to downed lines and a blown transformer.

There were six customer complaints regarding the Major Event; four were Commission complaints and two were Company complaints.

Restoration Intervals

Total Customers Sustained	< 3 Hrs.	3 - 24 Hrs.	24 - 48 Hrs.	48 - 72 Hrs.	72 - 96 Hrs.	96 + Hrs.
86,444	39,764	44,294	2,228	158	0	0

Restoration Resources

Personnel Resources	
Troublemembers/Assessors	21
Internal Crewmembers (local)	220
Internal Crewmembers (borrowed/non-local)	12
External Crewmembers (contract)	30
Substation Crewmembers	29
Vegetation Crewmembers	13
Support Staff	2
TOTAL	327

Materials	
# Poles (distribution)	85
# Poles (transmission)	8
Approximate Line Feet (conductor)	11,589
# Transformers	22
# Crossarms	137

State Estimated Major Event Costs

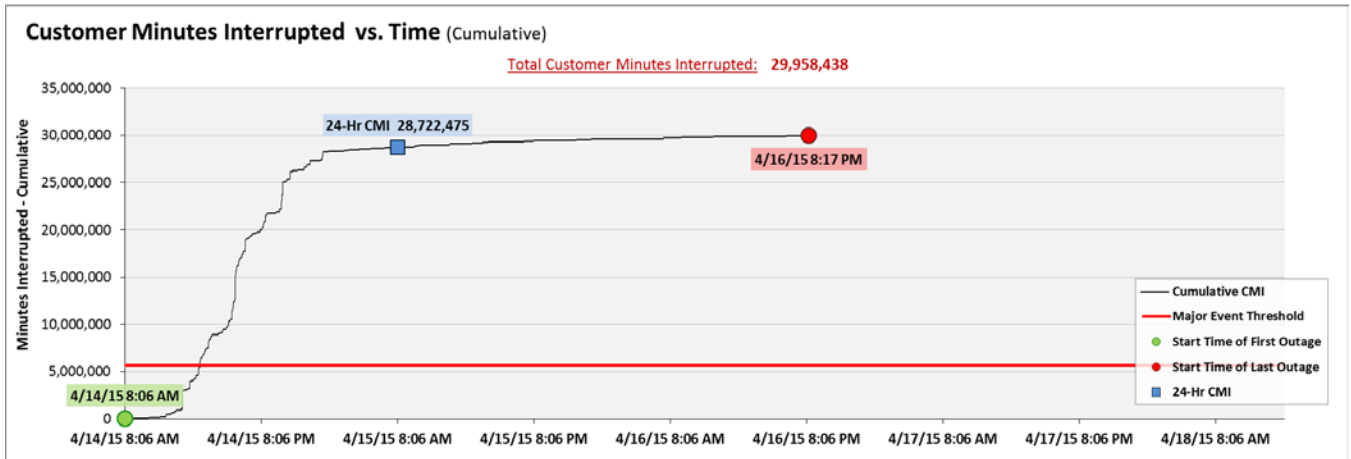
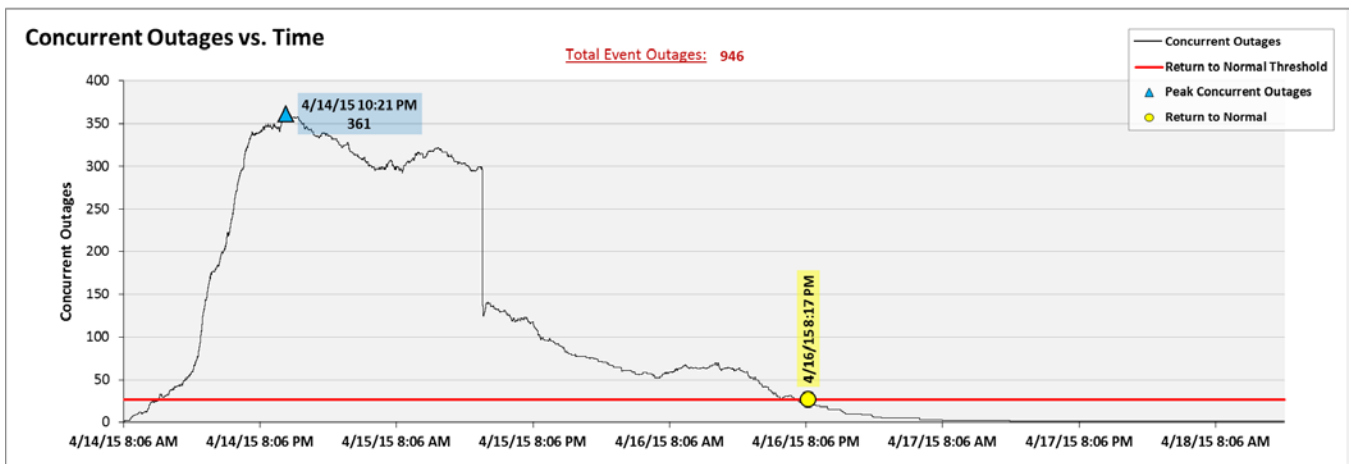
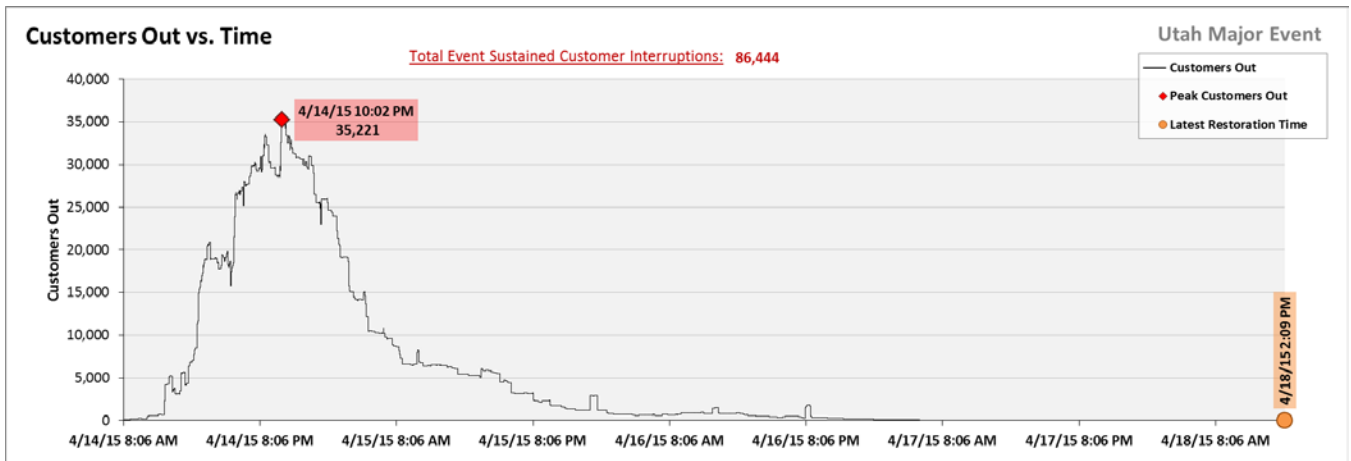
Estimate \$	Labor	Contracts	Materials	Overhead	Total
Capital	\$328,048	\$196,647	\$168,732	\$97,080	\$790,507
Expense	\$716,775	\$349,172	\$63,695	\$0	\$1,129,642
Total	\$1,044,823	\$545,819	\$232,427	\$97,080	\$1,920,149

Major Event Declaration

Rocky Mountain Power is requesting designation of this storm and its consequences to be classified as a “Major Event” for exclusion from network performance reporting. This major event exceeded the company’s current Utah threshold for customer minutes lost in a 24-hour period, consistent with Utah Administrative Code R746-313.

The 2015 annual threshold for Utah is 5,699,347 minutes (i.e., 6.52 state SAIDI minutes).

Event Detail



SAIDI, SAIFI, CAIDI by Reliability Reporting Region

Please see the attached system-generated reports.