

Report to the Utah Public Utility Commission
Electric Service Reliability - Major Event Report UT-15-2

Event Dates: December 14 – 15, 2015

Date Submitted: January 27, 2016

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

Primary Cause: 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

On December 14, 2015, Utah experienced a severe winter storm. The storm was recorded as the largest snow storm in three years in the greater Salt Lake City area, accumulating up to 22 inches of snow over the course of three days. As snow accumulated, wind-blown and snow-laden trees and branches toppled onto electrical facilities, blowing fuses, pulling wire down or breaking poles. During the event 50% of customer minutes lost were attributed to heavy snow and tree related outages. Another big contributing cause was loss of transmission line, where those which had been damaged resulted in 32% of the event customer minutes lost.

| Event Outage Summary¹ | |
|---|-------------------|
| # Interruptions (sustained) | 362 |
| Total Customer Interrupted (sustained) | 43,284 |
| Total Customer Minutes Lost | 6,798,738 |
| Event SAIDI | 7.82 Minutes |
| CAIDI | 157 |
| Major Event Start | 12/14/15 12:00 AM |
| Major Event End | 12/15/15 8:06 PM |

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

During the storm a total of 362 sustained outages occurred, and at its peak 14,866 customers were without power, experiencing a sustained interruption. Restoration activities utilized 199 personnel, consisting of both internal and external contractor crews, who were working around the clock to restore power. Crews from less impacted operations areas were dispatched to the affected regions to augment their response. A total of 199 employees took part in the restoration efforts, replacing approximately 1,397 feet of conductor, 11 poles, three transformers, and two crossarms.

There were no commission complaints received regarding the Major Event.

Restoration Intervals

| Total Customers Sustained | < 3 Hrs. | 3 - 24 Hrs. | 24 - 48 Hrs. | 48 - 72 Hrs. |
|---------------------------|----------|-------------|--------------|--------------|
| 43,428 | 32,520 | 10,584 | 180 | 0 |

Restoration Resources

| Personnel Resources | |
|---|------------|
| Troublemembers/Assessors | 22 |
| Internal Crewmembers (local) | 144 |
| Internal Crewmembers (borrowed/non-local) | 0 |
| External Crewmembers (contract) | 17 |
| Substation Crewmembers | 2 |
| Vegetation Crewmembers | 14 |
| TOTAL | 199 |

| Materials | |
|-----------------------------------|-------|
| # Poles (distribution) | 11 |
| # Poles (transmission) | 0 |
| Approximate Line Feet (conductor) | 1,397 |
| # Transformers | 3 |
| # Crossarms | 2 |

State Estimated Major Event Costs

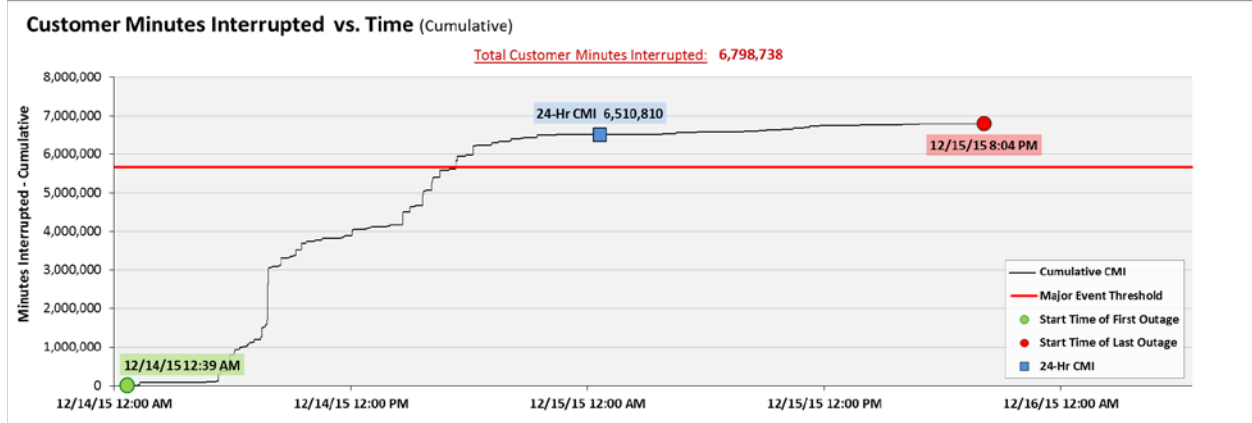
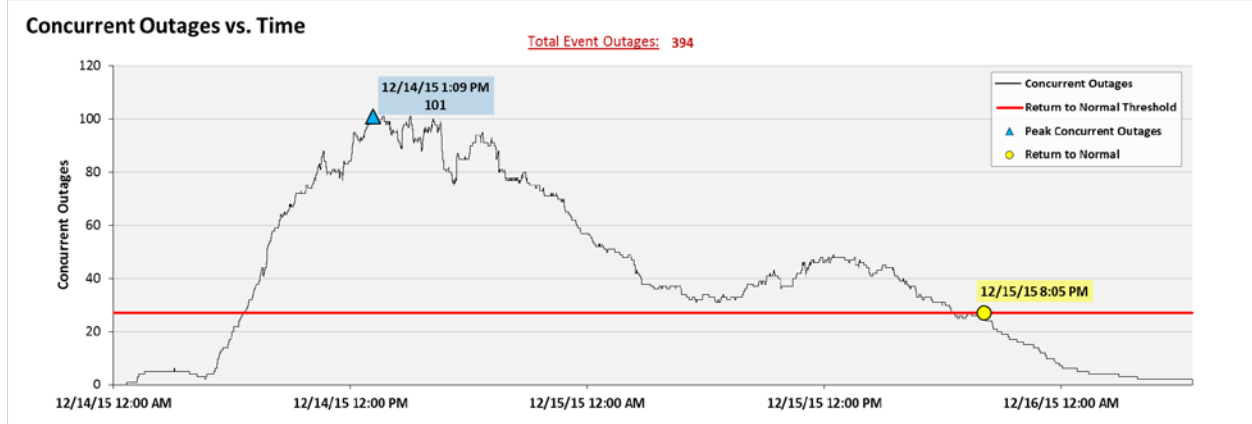
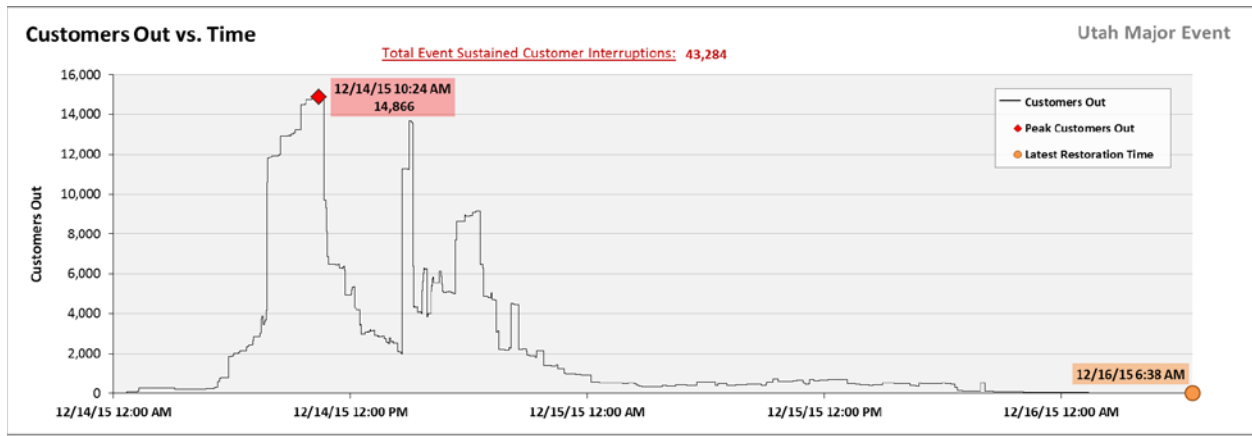
| Estimate \$ | Labor | Contracts | Materials | Overhead | Total |
|----------------|------------------|------------------|-----------------|-----------------|------------------|
| Capital | \$34,200 | \$46,800 | \$21,400 | \$11,776 | \$114,176 |
| Expense | \$400,000 | \$286,000 | \$18,600 | \$0 | \$704,600 |
| Total | \$434,200 | \$332,800 | \$40,000 | \$11,776 | \$818,776 |

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.