

Report to: Utah Public Service Commission

Electric Service Reliability - Major Event Report UT-10-1

Event Date(s): August 22-23, 2010
Date Submitted: September 20, 2010
Primary Affected Locations: Salt Lake City Metro, Ogden, Layton,
Jordan Valley, Vernal
Exclude from Performance Reports: Yes
Report Prepared by: Diane DeNuccio
Report Approved by: Dennis Hansen

Event Description:

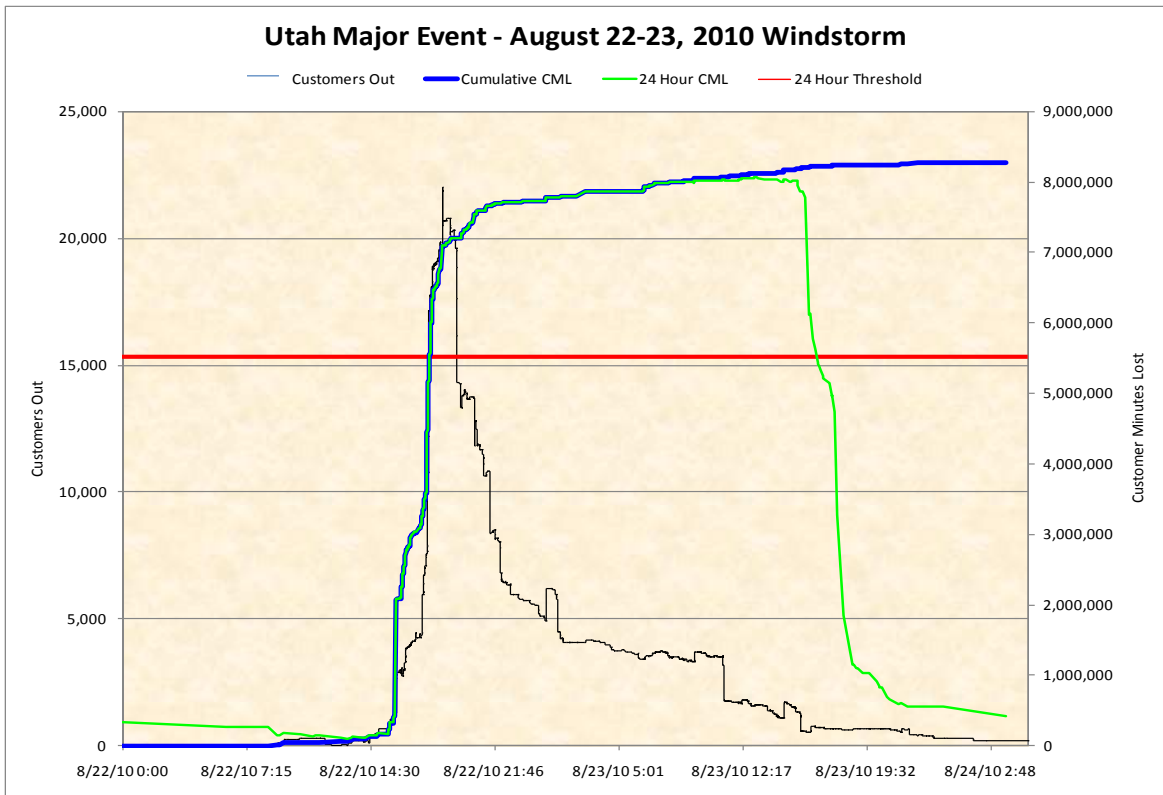
Beginning in the late afternoon on Sunday, August 22, 2010, a significant thunderstorm with high winds and lightning in northern Utah caused substantial damage to Rocky Mountain Power facilities along the Wasatch Front. Gusts of 76 mph were recorded in the Metro area, toppling trees and tearing roof and siding off some structures. Downed power lines stretched over the Legacy Parkway as well as parts of Highway I-80 forcing road closures for up to 19 hours as crews worked through the night; joint-use cable twisted with the downed conductor added to repair time. Sustained interruptions of service to customers were caused by windblown debris, downed poles and lines, blown fuses, and damage to customer equipment.

In total throughout the state, sustained interruptions affected 143 substations and 264 circuits. (In just the five primary operating areas noted above, sustained interruptions affected 91 substations and 207 circuits.) The longest interruption was on Kearns #12 circuit in the Jordan Valley operating area, affecting 9 customers for 1,695.4 minutes (28.3 hours). The unweighted average stage duration of all sustained interruptions statewide was 433 minutes, the median duration was 230 minutes and the mode duration 60 minutes. Statewide for the 2 day period, 62% of affected customers were restored within 3 hours; 45 customers were off supply for more than 24 hours.

Total Customer Minutes Lost = 8,385,097
Total Sustained Incidents = 600
Total Sustained Customer Interruptions = 31,462

Restoration:

The Wasatch Restoration Center (WRC), which handles all the interruptions in the Salt Lake Valley, requested assistance from other operating areas; the borrowed additional resources were utilized until the bulk of the outages were restored and the volume of outages reduced to a level appropriately managed by WRC crews. Restoration efforts focused first on repairing trunk lines, then prioritizing and repairing tap lines. In many instances, restoration could not be completed until after damage to customer equipment had been repaired by private electricians. Specialized equipment was brought to the Salt Lake Valley from American Fork to assist in replacing 65-foot and 75-foot poles.



Damages:

Facilities replacements included approximately 12,000 line feet of conductor, 36 distribution poles, 2 transmission poles, 12 transformers and 41 cross-arms.

Restoration Resources Utilized in Primary Locations:

Troubleman/assessors	34
Internal (local) crewmembers	99
Borrowed company crew	24
External (contract) crewmembers	50
Vegetation crewmembers	30
Support staff	22
Total Primary Area Personnel	259

Estimated Major Event Cost:

Expense \$200,000 Capital \$300,000 TOTAL \$500,000

SAIDI, SAIFI, MAIFI Report: (Attached)

Major Event Threshold:

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 (pursuant filed Advice/Approval Letters 04-13/05-13 adopting IEEE P1366 major event methodology effective the company’s fiscal year 2006).