

February 13, 2023

***VIA ELECTRONIC FILING***

Utah Public Service Commission  
Heber M. Wells Building, 4<sup>th</sup> Floor  
160 East 300 South  
Salt Lake City, UT 84114

Attention: Gary Widerburg  
Commission Administration

RE: **Docket No. 23-035-04**  
Major Event Report for January 1-3, 2023

Rocky Mountain Power submits a request for a major event exclusion for the snowstorm in the Salt Lake City metro, Richfield and Jordan Valley areas of Utah on January 1-3, 2023, which exceeded the Commission approved threshold for customer minutes lost in a 24-hour period.

The attached provides details including costs incurred, restoration resources, number of customers off supply, customer minutes lost, and SAIDI, SAIFI, CAIDI figures.

Upon Commission approval, Rocky Mountain Power will exclude outage information for these events from its network performance reporting and from customer guarantee failure payments.

Informal inquiries may be made to Jana Saba at (801) 220-2823 or Alex Vaz, Director of Asset Management, at (801) 220-2112.

Sincerely,



Joelle Steward  
Senior Vice President, Regulation and Customer and Community Solutions

Enclosures

## **CERTIFICATE OF SERVICE**

Docket No. 23-035-04

I hereby certify that on February 13, 2023, a true and correct copy of the foregoing was served by electronic mail to the following:

### **Utah Office of Consumer Services**

Michele Beck [mbeck@utah.gov](mailto:mbeck@utah.gov)  
[ocs@utah.gov](mailto:ocs@utah.gov)

### **Division of Public Utilities**

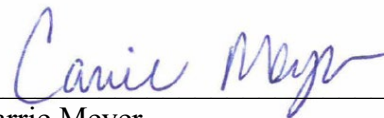
[dpudatarequest@utah.gov](mailto:dpudatarequest@utah.gov)

### **Assistant Attorney General**

Patricia Schmid [pschmid@agutah.gov](mailto:pschmid@agutah.gov)  
Robert Moore [rmoore@agutah.gov](mailto:rmoore@agutah.gov)

### **Rocky Mountain Power**

Data Request Response Center [datarequest@pacificorp.com](mailto:datarequest@pacificorp.com)  
Jana Saba [jana.saba@pacificorp.com](mailto:jana.saba@pacificorp.com)  
[utahdockets@pacificorp.com](mailto:utahdockets@pacificorp.com)



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Carrie Meyer  
Adviser, Regulatory Operations

**Report to the Utah Public Service Commission  
Electric Service Reliability  
Major Event Report for January 1-3, 2023**

Event Date:	January 1-3, 2023
Date Submitted:	February 13, 2023
Primary Affected Locations:	SLC Metro, Richfield and Jordan Valley, Utah
Primary Cause:	Snowstorm
Exclude from Reporting Status:	Yes
Report Prepared by:	Tia Solis
Report Approved by:	Kevin Benson and Alex Vaz

**Event Description and Restoration Summary**

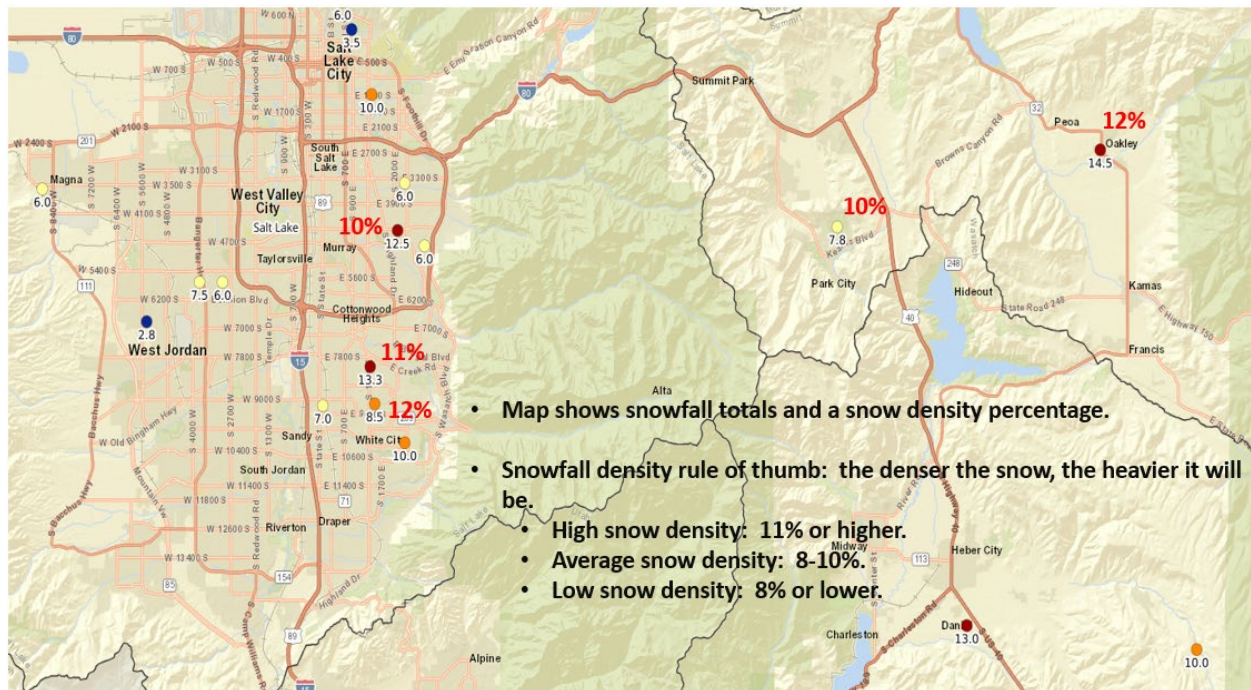
From January 1<sup>st</sup>, 2023, into January 3<sup>rd</sup>, 2023, Utah experienced a potent weather system which interacted with an inland penetrating atmospheric river was located over northern and central Utah late on December 31<sup>st</sup> into the morning of January 1, 2023. This system produced a large amount of heavy, wet snow across the Salt Lake Valley districts (SLC Metro, Jordan Valley) and into the higher elevations of the Park City and American Fork districts. Snowfall totals varied across the districts, but for the most part valley locations saw 8-12 inches and bench (foothill) locations (generally above 4,800 feet) saw amounts 12-16 inches. In the American Fork district, near the Sundance ski resort, over 50 inches of snowfall occurred during the two-day event with a total of six inches of snow water equivalent. The heavy snowfall amounts that occurred in this short period of time were of very high density, around 14%, leading to a substantial amount of heavy wet snow on tree limbs which caused many to break, especially in the higher elevations near the Sundance ski resort where 50-foot pine trees toppled under the weight. Further south into the Richfield district, additional heavy, wet snow was observed with lesser amounts than seen in the Salt Lake Valley districts but still impactful.

The storm heavily impacted powerline areas located within backlots and mountain benches. Most of the restoration efforts were related to removing trees from lines or splicing wire back together that was split, and then restoring power. This included step restoration efforts while

restoring customers from the substation all the way to the fused tap lines. Multiple line and vegetation crewman responded to the event to remove limbs from overhead lines, replace damage poles, and re-attach broken power lines. Damages were seen in wires, poles, crossarms, and insulators on both primary and secondary lines. Crews from outside the local area were needed to assist in the highest impacted areas. Internal and contracted crews from Idaho, Wyoming, and Southern Utah were mobilized to assist with power restoration. Restoration efforts faced challenges due to snow accumulation and blizzard conditions; in addition, access was difficult in certain areas because of heavy snow and mud.

Approximately 32,334 sustained customers were affected with outage durations ranging from eight minutes to 76 hours and eight minutes. Customer outages peaked January 1, 2023, with 16,744 customers out of service. During the event approximately 81% of customer minutes lost and 45% of all customer outages were the result of damages from weather effects to equipment and downed trees, while approximately 14% of customer minutes lost and 53% of customer outages were the result of loss of transmission lines and substations.

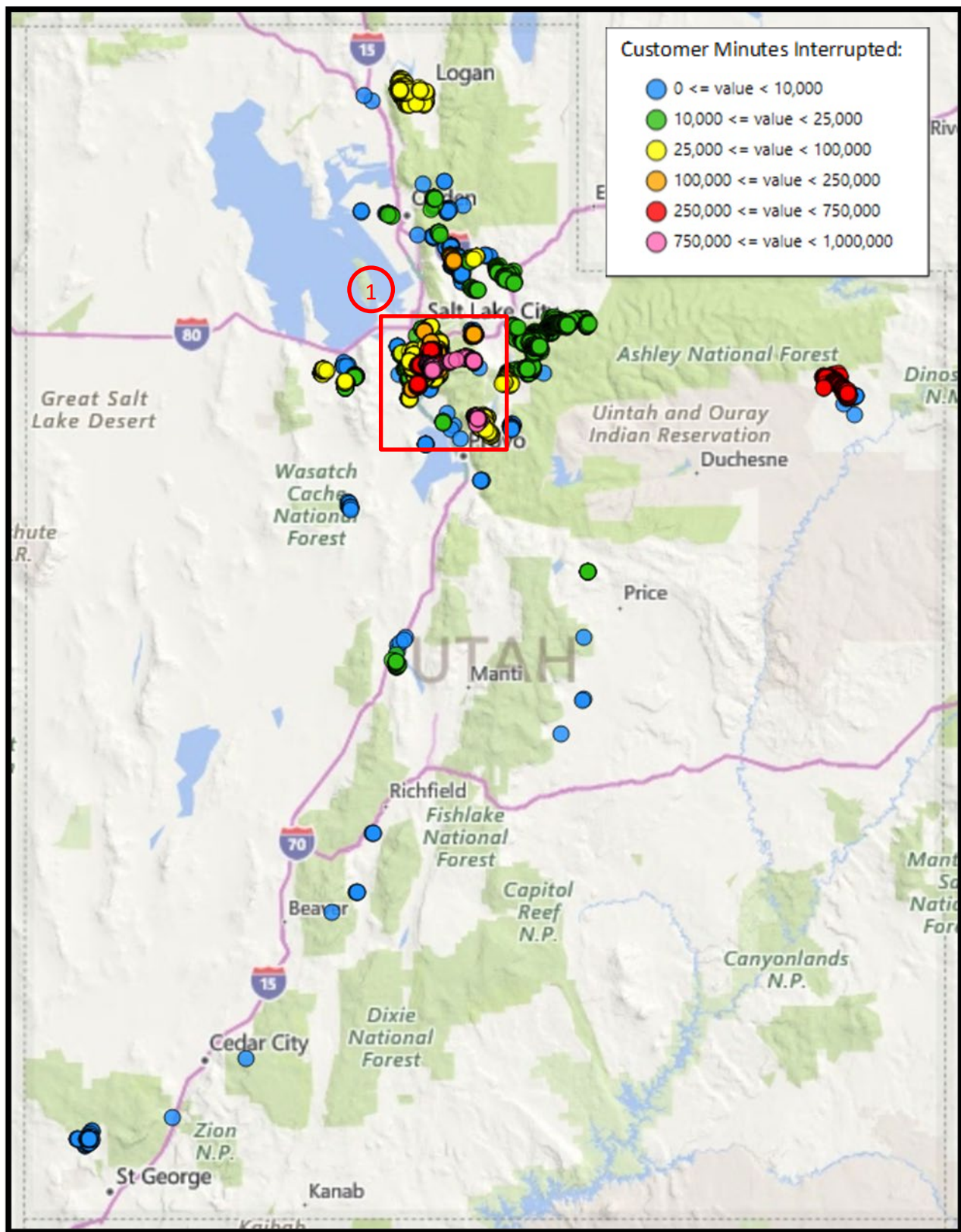
### Snowfall Density in the Salt Lake City Metro Area

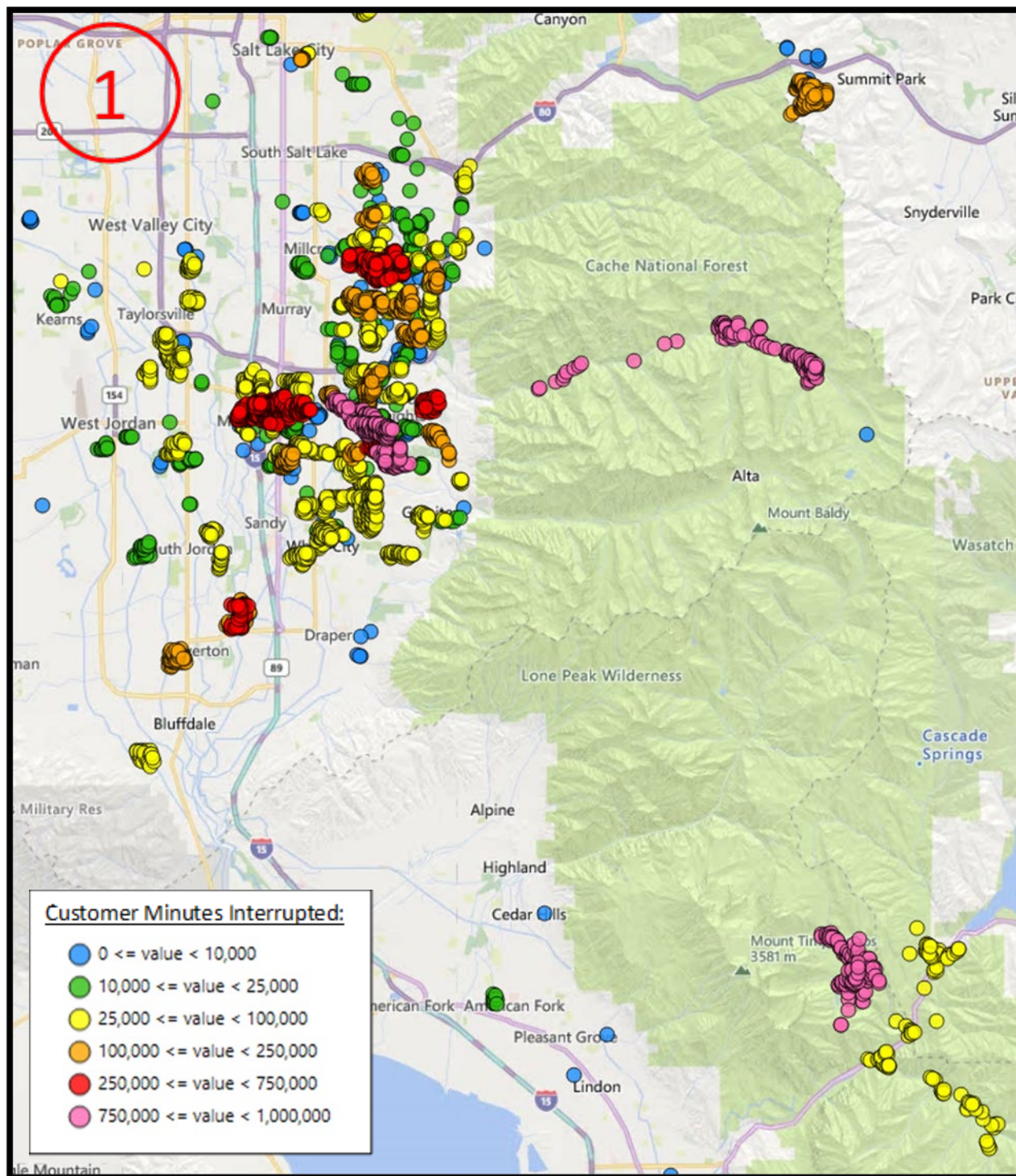




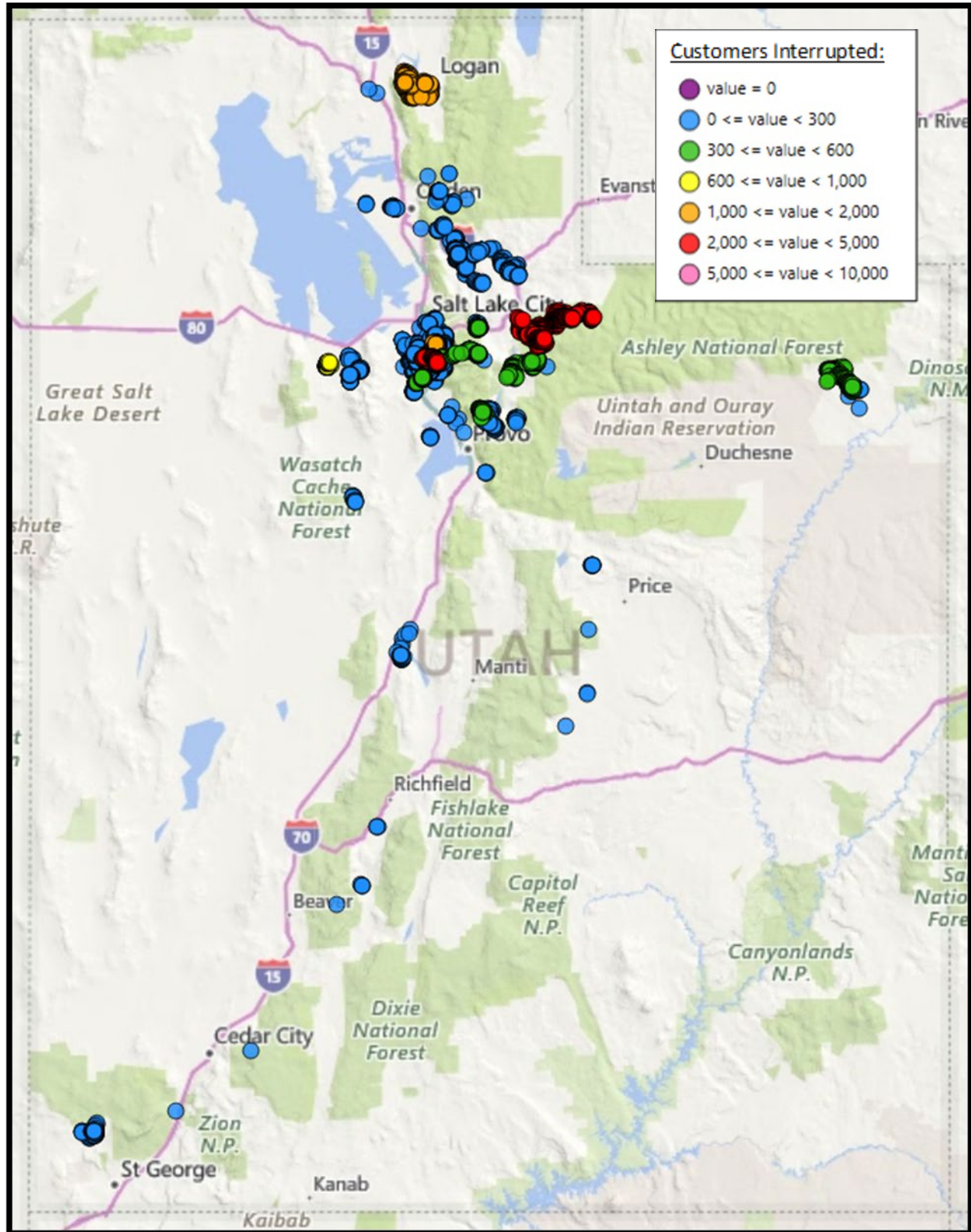


**Power Outages January 1st 12:18 through January 3rd 17:37, 2023**











## Restoration Resources

Personnel	
Trouble man/assessors	28
Internal local crewmembers	130
External (contract) crewmembers	72
Substation crewmembers	24
Vegetation crewmembers	20
# Support staff	1
Substation	24
Warehouseman	10
Other (Mechanic)	6
Other (specify here)	4
<b>Total</b>	<b>319</b>

Materials	
# Poles (D)	12
# Poles (T)	2
# Approx. conductor Line (feet)	2,533
# Transformers	6
# Crossarms	27
Insulators	247
Cutouts	42
Line fuses	51
Line splices	515
Guy wire	250
Other (Arresters)	13
Other (Switches)	6

## Estimated Major Event Costs

Estimated \$	Labor	Contracts	Materials	Overheads	TOTAL
Capital	\$ 429,240	\$ 108,267	\$ 95,063	\$ 31,013	\$ 663,583
Expense	\$ 930,626	\$ 543,250	\$ 26,537	\$ 32,836	\$ 1,533,249
<b>Total</b>	<b>\$ 1,359,866</b>	<b>\$ 651,518</b>	<b>\$ 121,600</b>	<b>\$ 63,848</b>	<b>\$ 2,196,832</b>

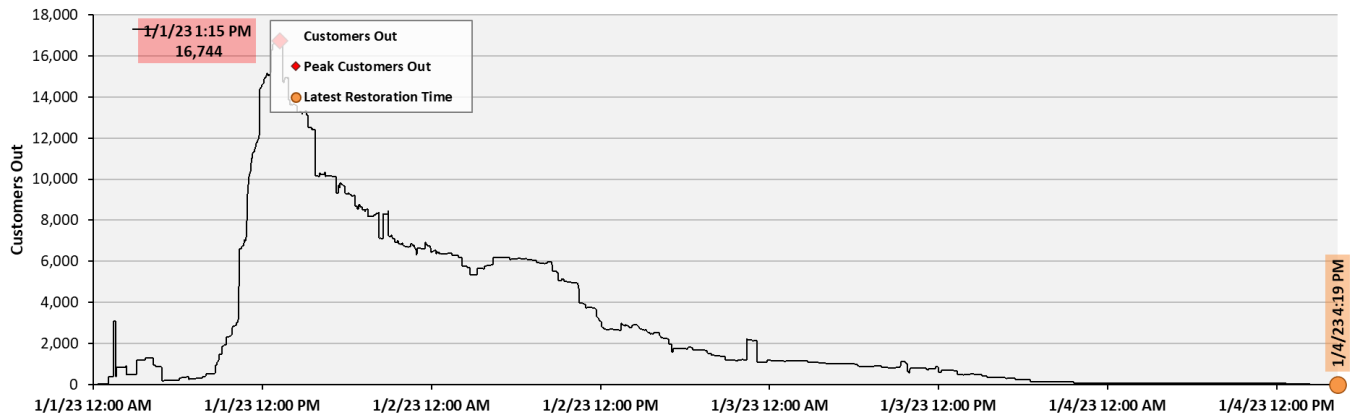
**Major Event Declaration**

Rocky Mountain Power is requesting designation of these events 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 2023 annual threshold for Utah is 4,352,711 customer minutes lost (4.31 State SAIDI minutes).

## SAIDI, SAIFI, CAIDI by Reliability Reporting Region

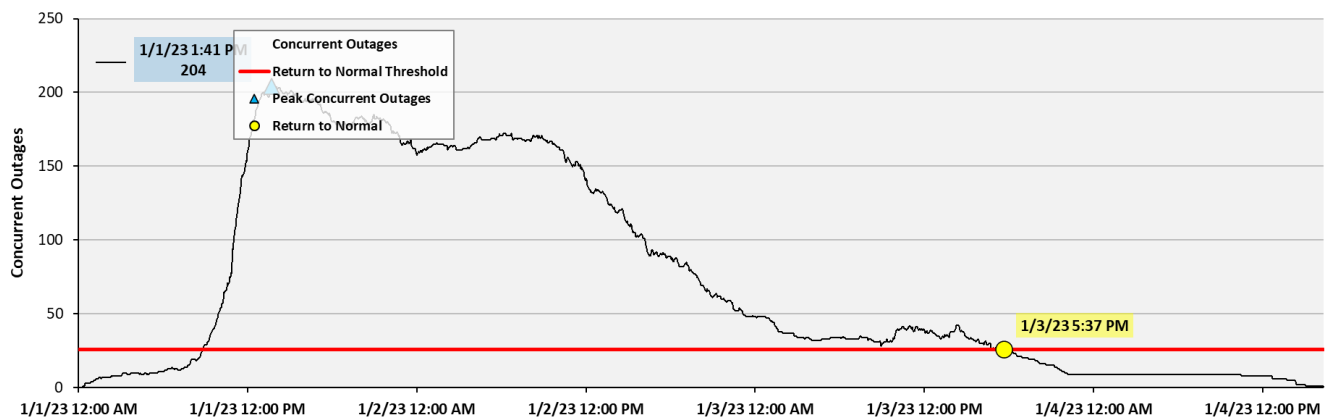
### Customers Out vs. Time

Total Event Sustained Customer Interruptions: 32,334



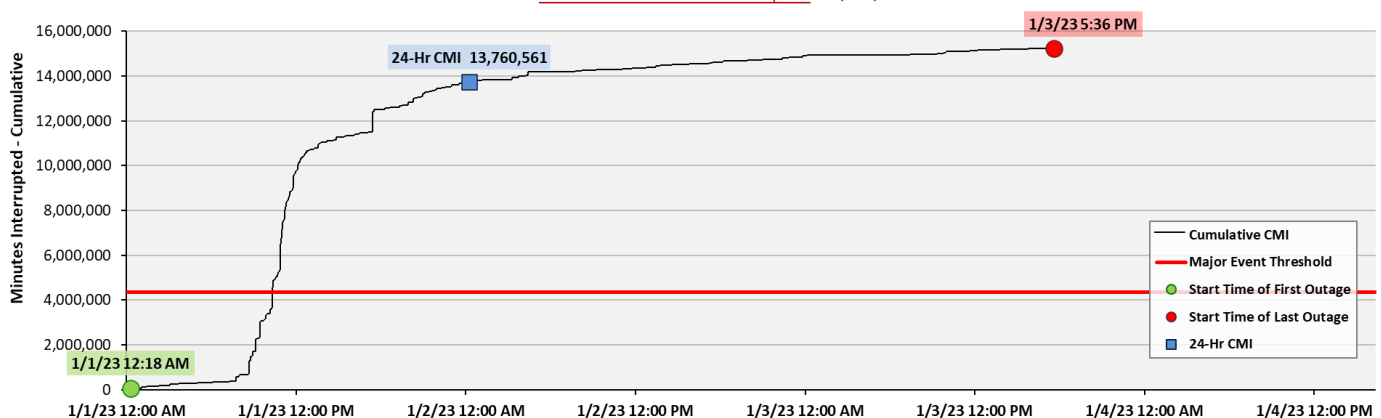
### Concurrent Outages vs. Time

Total Event Outages: 540



### Customer Minutes Interrupted vs. Time (Cumulative)

Total Customer Minutes Interrupted: 15,224,331





## PacifiCorp Major Event Report - Customer Analysis

	Utah	Customer Analysis 1/1/2023 through 1/3/2023					Customers Restored by Intervals								Major Event Only - metric by operating area customer counts		
	<i>PacifiCorp Major Events Report Customer Analysis*</i>	Sustained Customers Off	% Sustained Customers Off	CML	Number of Sustained Interruptions	Customer Count	< 5 min	5 min - 3 hrs	3 hrs - 24 hrs	24 hrs - 48 hrs	48 hrs - 72 hrs	72 hrs - 96 hrs	96 + hrs	% Sustained Customers Restored in 3 Hours P54	SAIDI	SAIFI	CAIDI
PC	PACIFICORP	31,052	2%	14,864,594	465	2,054,233	5,376	9,565	18,883	2,545	47	12	-	31%	7.24	0.015	479
RMP	Rocky Mountain Power	31,052	3%	14,864,594	465	1,241,779	5,376	9,565	18,883	2,545	47	12	-	31%	11.97	0.025	479
UT	Utah	31,052	3%	14,864,594	465	1,009,615	5,376	9,565	18,883	2,545	47	12	-	31%	14.72	0.015	479
UT	AMERICAN FORK	888	1%	1,016,019	21	130,189	-	138	429	287	22	12	-	16%	7.80	0.007	1,144
UT	CEDAR CITY	217	1%	10,153	3	38,949	-	212	5	-	-	-	-	98%	0.26	0.006	47
UT	CEDAR CITY (MILFORD)	19	1%	4,964	2	2,888	-	-	19	-	-	-	-	0%	1.72	0.007	261
UT	JORDAN VALLEY	19,857	8%	10,538,313	269	250,145	2,764	3,575	14,616	1,656	10	-	-	18%	42.13	0.079	531
UT	LAYTON	5	0%	1,012	5	78,497	98	3	2	-	-	-	-	60%	0.01	0.000	202
UT	MOAB	2	0%	416	2	9,327	-	1	1	-	-	-	-	50%	0.04	0.000	208
UT	OGDEN	628	1%	291,949	32	115,203	-	207	407	-	14	-	-	33%	2.53	0.005	465
UT	PARK CITY	4,256	12%	287,680	15	36,840	-	3,205	1,051	-	-	-	-	75%	7.81	0.116	68
UT	PRICE	20	0%	21,282	6	10,413	-	6	3	11	-	-	-	30%	2.04	0.002	1,064
UT	RICHFIELD	48	0%	30,106	4	16,260	-	5	43	-	-	-	-	10%	1.85	0.003	627
UT	SLC METRO	2,446	1%	1,655,700	81	231,629	2,514	204	2,031	210	1	-	-	8%	7.15	0.011	677
UT	SMITHFIELD	1,089	4%	77,892	3	28,227	-	1,089	-	-	-	-	-	100%	2.76	0.039	72
UT	TOOELE	1,139	4%	196,476	11	27,671	-	876	263	-	-	-	-	77%	7.10	0.041	172
UT	TREMONTON	2	0%	166	2	12,092	-	2	-	-	-	-	-	100%	0.01	0.000	83
UT	VERNAL	436	3%	732,464	9	12,838	-	42	13	381	-	-	-	10%	57.05	0.034	1,680

\*Only current event specific metric impact shown. Does not include values from other events which may have occurred in other regions during the same time period.

Data as of
1/31/2023



## PacifiCorp Major Event Report – SSC by State Analysis

	Utah	Event 01/01/23 through 01/03/23						Month 01/01/23 through 01/31/23						YTD FY2024 01/01/23 through 01/31/23					
		Major Events Included			Major Event Excluded			Major Events Included			Major Events Excluded*			Major Events Included			Major Events Excluded*		
		SAIDI	SAIFI	CAIDI	SAIDI	SAIFI	CAIDI	SAIDI	SAIFI	CAIDI	SAIDI	SAIFI	CAIDI	SAIDI	SAIFI	CAIDI	SAIDI	SAIFI	CAIDI
PC	PACIFICORP	7.38	0.016	469	0.00	0.000	67	11.65	0.038	303	4.27	0.023	188	11.65	0.038	303	4.27	0.023	188
RMP	Rocky Mountain Power	12.21	0.026	469	0.00	0.000	67	19.27	0.064	303	7.06	0.038	188	19.27	0.064	303	7.06	0.038	188
UT	Utah	15.02	0.032	469	0.00	0.000	67	23.70	0.078	303	8.68	0.046	188	23.70	0.078	303	8.68	0.046	188
UT	AMERICAN FORK	1.03	0.001	1,123	0.00	0.000	68	2.86	0.007	429	1.83	0.006	318	2.86	0.007	429	1.83	0.006	318
UT	CEDAR CITY	0.01	0.000	47	0.00	0.000	54	0.48	0.006	86	0.47	0.005	88	0.48	0.006	86	0.47	0.005	88
UT	CEDAR CITY (MILFORD)	0.01	0.000	277				0.03	0.000	183	0.03	0.000	172	0.03	0.000	183	0.03	0.000	172
UT	EVANSTON							0.28	0.001	380	0.28	0.001	380	0.28	0.001	380	0.28	0.001	380
UT	JORDAN VALLEY	10.66	0.021	515	-	-	-	11.87	0.027	434	1.21	0.007	180	11.87	0.027	434	1.21	0.007	180
UT	LAYTON	0.00	0.000	103	-	-	-	0.18	0.004	52	0.18	0.003	51	0.18	0.004	52	0.18	0.003	51
UT	MOAB	0.00	0.000	208	-	-	-	0.84	0.004	191	0.84	0.004	191	0.84	0.004	191	0.84	0.004	191
UT	MONTPELIER	0.00	0.000	299	-	-	-	0.05	0.000	708	0.05	0.000	713	0.05	0.000	708	0.05	0.000	713
UT	OGDEN	0.29	0.001	454	-	-	-	1.24	0.005	256	0.95	0.004	225	1.24	0.005	256	0.95	0.004	225
UT	PARK CITY	0.28	0.004	68	-	-	-	1.43	0.011	127	1.14	0.007	162	1.43	0.011	127	1.14	0.007	162
UT	PRICE	0.02	0.000	1,064	-	-	-	0.03	0.000	564	0.01	0.000	241	0.03	0.000	564	0.01	0.000	241
UT	RICHFIELD	0.03	0.000	627	-	-	-	0.05	0.000	380	0.02	0.000	215	0.05	0.000	380	0.02	0.000	215
UT	RICHFIELD (DELTA)	-	-	-	-	-	-	0.10	0.000	336	0.10	0.000	336	0.10	0.000	336	0.10	0.000	336
UT	SLC METRO	1.68	0.003	648	-	-	-	3.01	0.009	324	1.33	0.007	198	3.01	0.009	324	1.33	0.007	198
UT	SMITHFIELD	0.08	0.001	72	-	-	-	0.14	0.001	100	0.06	0.000	210	0.14	0.001	100	0.06	0.000	210
UT	TOOELE	0.20	0.001	173	-	-	-	0.27	0.002	175	0.07	0.000	180	0.27	0.002	175	0.07	0.000	180
UT	TREMONTON	0.00	0.000	83	-	-	-	0.07	0.000	149	0.07	0.000	149	0.07	0.000	149	0.07	0.000	149
UT	VERNAL	0.73	0.000	1,680	-	-	-	0.79	0.001	1,462	0.06	0.000	590	0.79	0.001	1,462	0.06	0.000	590

\*may include other regional major event exclusions during the same period. Operating areas are calculated by the state frozen customer count metrics.

Data as of
1/31/2023