



UTAH

SERVICE QUALITY

REVIEW

January 1 – June 30, 2016
Report

TABLE OF CONTENTS

TABLE OF CONTENTS.....	2
EXECUTIVE SUMMARY	3
1 Service Standards Program Summary	3
1.1 Rocky Mountain Power Customer Guarantees	3
1.2 Rocky Mountain Power Performance Standards ¹	4
1.3 Utah Distribution Service Area Map with Operating Areas/Districts	5
2 RELIABILITY PERFORMANCE	6
2.1 System Average Interruption Duration Index (SAIDI).....	7
2.2 System Average Interruption Frequency Index (SAIFI).....	8
2.3 Reliability History.....	9
2.4 Controllable, Non-Controllable and Underlying Performance Review	10
2.5 Cause Analysis Tables (Pre-Title 746-313 Modification)	12
2.6 Baseline Performance.....	17
2.7 Reliability Reporting Post-Rule R.746-313 Modifications.....	19
2.8 Reduce CPI for Worst Performing Circuits by 20%	21
2.8.1 Circuit Performance Score Updates for Prior-Year Selections	21
2.9 Restore Service to 80% of Customers within 3 Hours	23
2.10 CAIDI Performance	23
2.11 Telephone Service and Response to Commission Complaints	23
2.12 Utah Commitment U1.....	24
2.13 Utah State Customer Guarantee Summary Status.....	25
3 MAINTENANCE COMPLIANCE TO ANNUAL PLAN	26
3.1 T&D Preventive and Corrective Maintenance Programs.....	26
3.2 Maintenance Spending:	27
3.2.1 Maintenance Historical Spending.....	27
3.3 Distribution Priority “A” Conditions Correction History.....	28
4 CAPITAL INVESTMENT	30
4.1 Capital Spending - Distribution and General Plant.....	30
4.2 Capital Spending – Transmission/Interconnections	31
4.3 New Connects	32
5 VEGETATION MANAGEMENT	33
5.1 Production	33
5.2 Budget.....	34
5.2.1 Vegetation Historical Spending	34
6 Appendix.....	35
6.1 Reliability Definitions.....	35

EXECUTIVE SUMMARY

Rocky Mountain Power has a number of Performance Standards and Customer Guarantee service quality measures and reports currently in place. These standards and measures are reflective of Rocky Mountain Power's performance (both customer service and network performance) in providing customers with high levels of service. The Company developed these standards and measures using industry standards for collecting and reporting performance data where they exist. In other cases, largely where the industry has no established standards, Rocky Mountain Power has developed metrics, reporting and targets. These existing standards and measures can be used over time, both historically and prospectively, to measure the quality of service delivered to our customers. In 2012 the Company and stakeholders collaboratively developed reliability reporting rules that were intended to replace the Service Standards Program. This report reflects those changes and captures the recently-adopted state rules.

1 Service Standards Program Summary¹

1.1 Rocky Mountain Power Customer Guarantees

<u>Customer Guarantee 1:</u> Restoring Supply After an Outage	The Company will restore supply after an outage within 24 hours of notification with certain exceptions as described in Rule 25.
<u>Customer Guarantee 2:</u> Appointments	The Company will keep mutually agreed upon appointments, which will be scheduled within a two-hour time window.
<u>Customer Guarantee 3:</u> Switching on Power	The Company will switch on power within 24 hours of the customer or applicant's request, provided no construction is required, all government inspections are met and communicated to the Company and required payments are made. Disconnection for nonpayment, subterfuge or theft/diversion of service is excluded.
<u>Customer Guarantee 4:</u> Estimates For New Supply	The Company will provide an estimate for new supply to the applicant or customer within 15 working days after the initial meeting and all necessary information is provided to the Company and any required payments are made.
<u>Customer Guarantee 5:</u> Respond To Billing Inquiries	The Company will respond to most billing inquiries at the time of the initial contact. For those that require further investigation, the Company will investigate and respond to the Customer within 10 working days.
<u>Customer Guarantee 6:</u> Resolving Meter Problems	The Company will investigate and respond to reported problems with a meter or conduct a meter test and report results to the customer within 10 working days.
<u>Customer Guarantee 7:</u> Notification of Planned Interruptions	The Company will provide the customer with at least two days' notice prior to turning off power for planned interruptions.

Note: See Rule 25 for a complete description of terms and conditions for the Customer Guarantee Program.

¹ In 2012, rules were codified in Utah Regulations R746-313. The Company, Commission and other stakeholders have been working to develop mechanisms that comply with these rules and that will supersede the Company's Service Standards Program.

1.2 Rocky Mountain Power Performance Standards¹

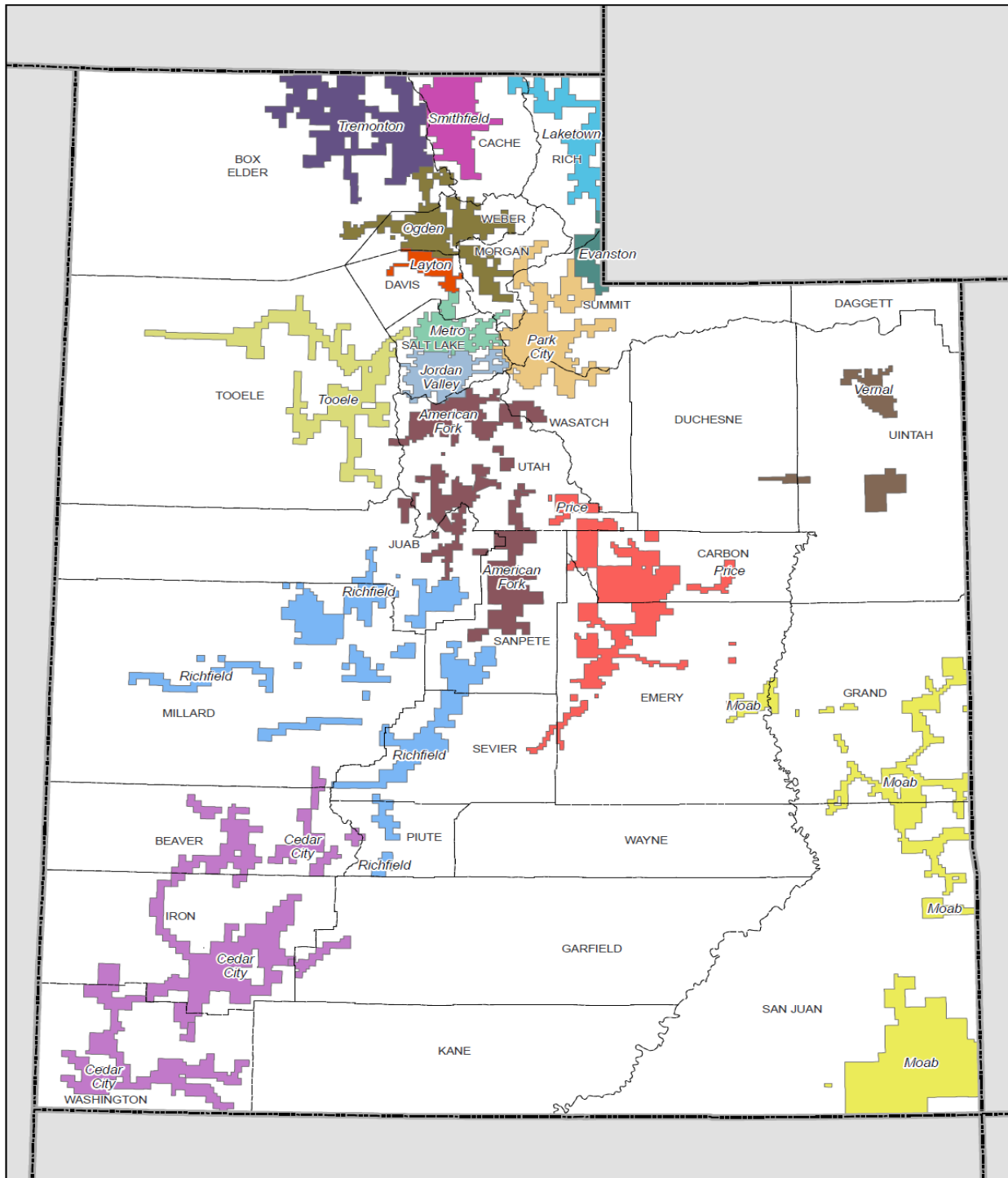
<u>*Network Performance Standard 1:</u> Improve System Average Interruption Duration Index (SAIDI)	Utah Commission adopted baselines recognizing 365-day rolling (rather than calendar) performance levels of between 152-201 minutes.
<u>*Network Performance Standard 2:</u> Improve System Average Interruption Frequency Index (SAIFI)	Utah Commission adopted baselines recognizing 365-day rolling (rather than calendar) performance levels of between 1.3-1.9 events.
<u>Network Performance Standard 3:</u> Improve Under Performing Circuits	The Company will reduce by 20% the circuit performance indicator (CPI) for a maximum of five underperforming circuits on an annual basis within five years after selection.
<u>*Network Performance Standard 4:</u> Supply Restoration	The Company will restore power outages due to loss of supply or damage to the distribution system within three hours to 80% of customers on average.
<u>Customer Service Performance Standard 5:</u> Telephone Service Level	The Company will answer 80% of telephone calls within 30 seconds. The Company will monitor customer satisfaction with the Company's Customer Service Associates and quality of response received by customers through the Company's eQuality monitoring system.
<u>Customer Service Performance Standard 6:</u> Commission Complaint Response/Resolution	The Company will a) respond to at least 95% of non-disconnect Commission complaints within three working days; b) respond to at least 95% of disconnect Commission complaints within four working hours; and c) resolve 95% of informal Commission complaints within 30 days, except in Utah where the Company will resolve 100% of informal Commission complaints within 30 days.

*Note: Performance Standards 1, 2 & 4 are for underlying performance days and exclude Major Events.

In 2012, rules were codified in Utah Regulations R746-313. The Company, Commission and other stakeholders have been working to develop mechanisms that comply with these rules and that will supersede the Company's Service Standards Program.

1.3 Utah Distribution Service Area Map with Operating Areas/Districts

Below is a graphic showing the specific areas where the Company’s distribution facilities are located.



2 RELIABILITY PERFORMANCE

For the reporting period, the Company experienced underlying interruption duration (SAIDI) and interruption frequency (SAIFI) performance in Utah that was favorable to target. Results for the underlying performance can be seen in subsections 2.1 and 2.2 below, where the Company's 2015 underlying reliability results fall within the Company's control zones, which are colored green in the graphic. History reflecting these metrics is displayed in Sections 2.3 and 2.4. Baselines are explored in Section 2.5. Cause code information, which is reported consistently with past Service Quality Review Reports, is shown in Section 2.6. Finally, Section 2.7 contains reporting information complies with features outlined in Utah Title 746.313.

During the reporting period, there were three major events² (all of which have been accepted as a major event by the Utah Commission upon recommendation of the Utah Division of Public Utilities) and two significant event days³ recorded.

Major Event Descriptions

Major Events		
Date	Cause	SAIDI
February 18-19, 2016	Storm	9.65
April 30 – May 1, 2016	Wind storm	36.86
May 19-20, 2016	Lightning Storm	11.29
	Total	57.80

- February 18-19, 2016**
 Utah experienced a severe windstorm which heavily impacted areas in and around the Salt Lake City Valley with high winds, wet snow and lightning. First, winds gusting above 75 mph blew through the Salt Lake Valley, uprooting trees and launching windborne debris. Thereafter snow followed, impacting travel and loading electrical lines with snow. This major event filing was accepted by the Utah Commission on 5/13/16 in Docket 16-035-13.
- April 30 - May 1, 2016**
 On the evening of, April 30, 2016, a strong easterly down-sloping wind began severely impacting facilities in Weber and Davis Counties. High winds continued through the next day with gusts reported as high as 91 mph. Wind and tree-related outages broke poles and ripped equipment and mounting hardware. This major event filing was accepted by the Utah Commission on 7/11/16 in Docket 16-035-24.
- May 19-20, 2016**
 On May 19, 2016, a lightning storm made its way across the northern portion of Utah. The storm brought wind and lightning to the area causing large scale outages to the distribution and transmission network. Transmission feeds were heavily impacted when lightning destroyed static lines which then dropped into transmission lines, causing several circuit breakers to trip and de-energize. As several transmission feeds were lost, loading levels on alternate sources increased, causing those sources to overload and de-energize consistent with reliability standards requirements. This major event filing was accepted by the Utah Commission on 8/16/16 in Docket 16-035-31.

² Major event threshold shown below:

Effective Date	Customer Count	ME Threshold SAIDI	ME Customer Minutes Lost
1/1-12/31/2016	876,438	6.06	5,312,799

³ Significant event days are 1.75 times the standard deviation of the company's natural log daily SAIDI results (by state).

Significant Events

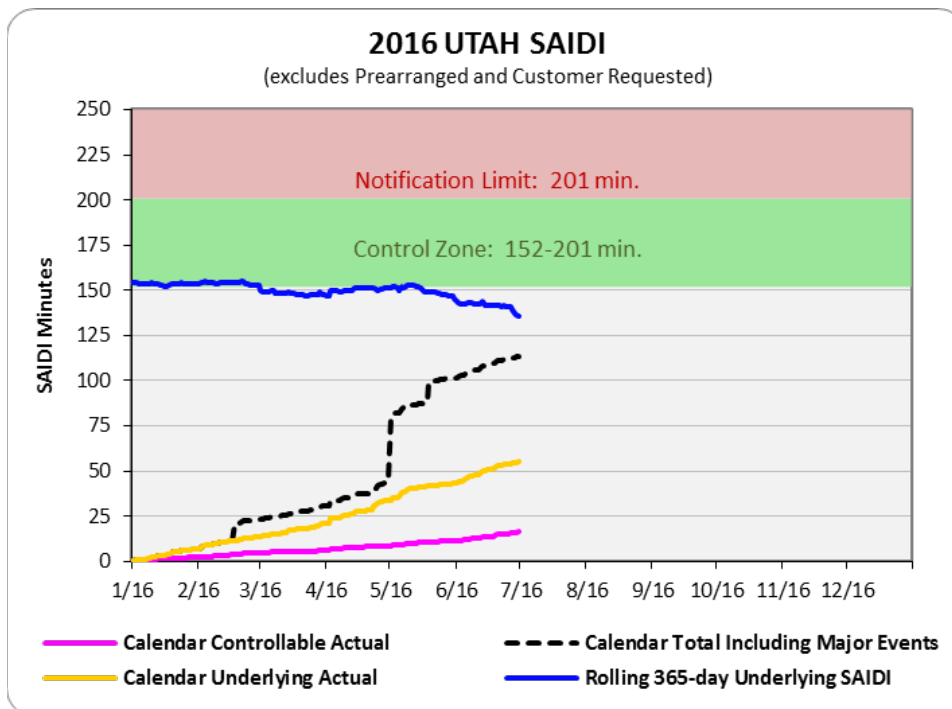
Significant event days add substantially to year on year cumulative performance results; fewer significant event days generally result in better reliability for the reporting period, while more significant event days generally mean poorer reliability results. During the reporting period two significant event days were recorded, which account for 5.5 SAIDI minutes; about 10% of the reporting period’s underlying 55.5 SAIDI minutes. These significant events were triggered by weather impacts and loss of supply outages.

Significant Event Days					
Dates	Cause: General Description	SAIDI	SAIFI	% Underlying SAIDI	% Underlying SAIFI
April 3, 2016	Wind and Lightning in Salt Lake City Metro area	2.8	0.031	5%	7%
May 6, 2016	Loss of substation in American Fork.	2.6	0.015	5%	3%
TOTAL		5.5	0.047	10%	10%

2.1 System Average Interruption Duration Index (SAIDI)

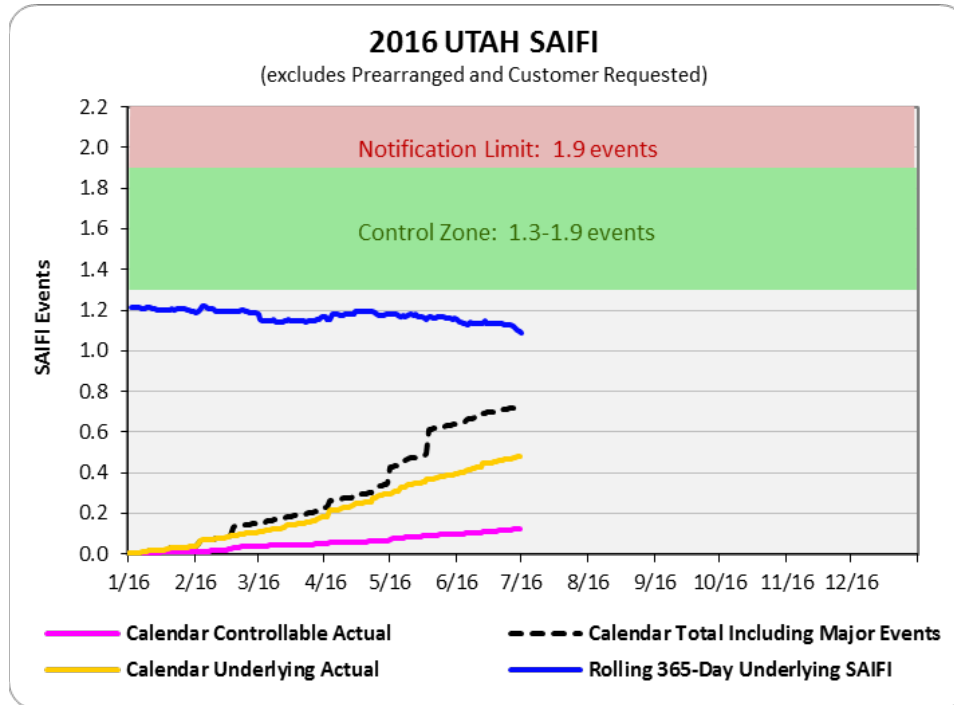
Over time the Company has made system changes to minimize how many customers are affected for any given outage. This approach has resulted in improvements to both outage duration and outage frequency, and has yielded improved performance as delivered to customers, as generally shown in the graphic below and in 2.2.

SAIDI	Reporting Period
Total	113
Underlying	56
Controllable Distribution	16



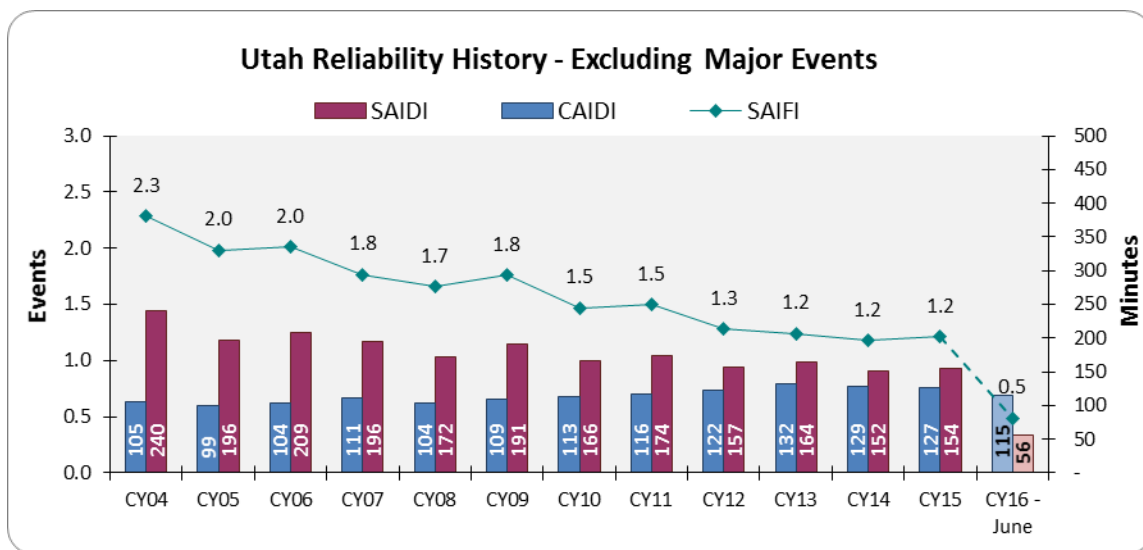
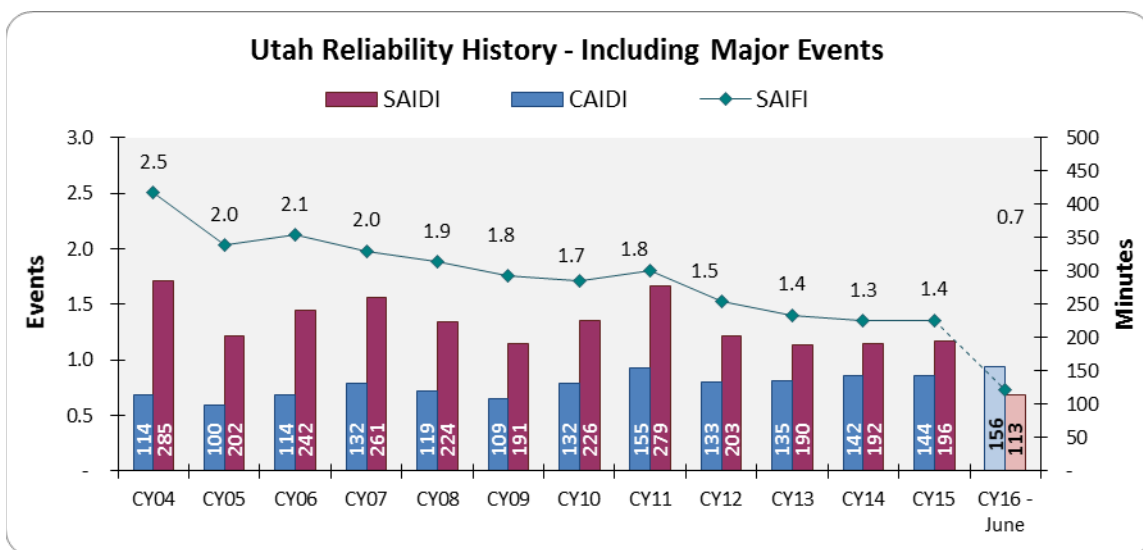
2.2 System Average Interruption Frequency Index (SAIFI)

SAIFI	Reporting Period
Total	0.707
Underlying	0.485
Controllable Distribution	0.112



2.3 Reliability History

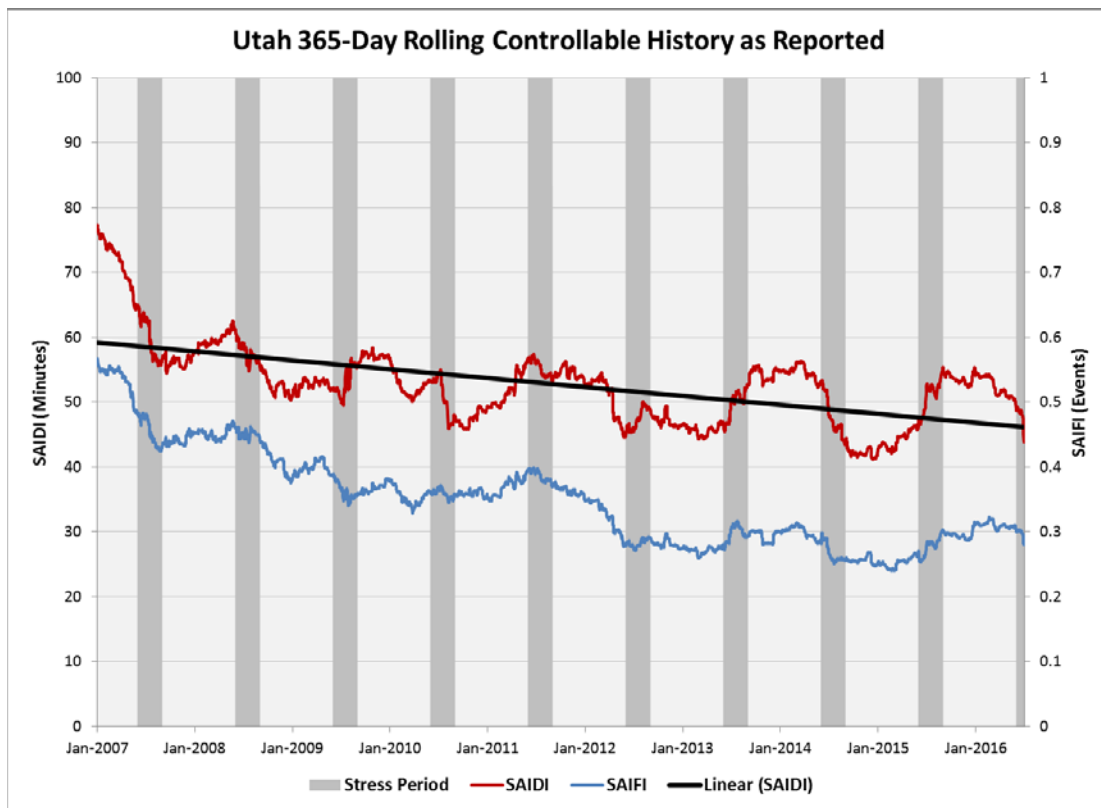
Historically the Company has improved reliability as measured by SAIDI and SAIFI reliability indices; at the same time outage response performance (CAIDI) has varied from year to year with no specific trend apparent. The SAIDI and SAIFI trends are further evidenced in Sections 2.4 and 2.6, where 365-day rolling performance trends are depicted. These indices (shown in the history charts below and in Sections 2.4 and 2.6) demonstrate the efficacy of the long-term improvement strategies targeted toward reducing the frequency of interruptions that the company under-took after the implementation of its automated outage management system. It is particularly noteworthy that these two metrics show improvement for both underlying and major event performance within the state, meaning that the system is more resilient on a day-to-day basis as well as when extreme weather or other system impacting events occur.



2.4 Controllable, Non-Controllable and Underlying Performance Review

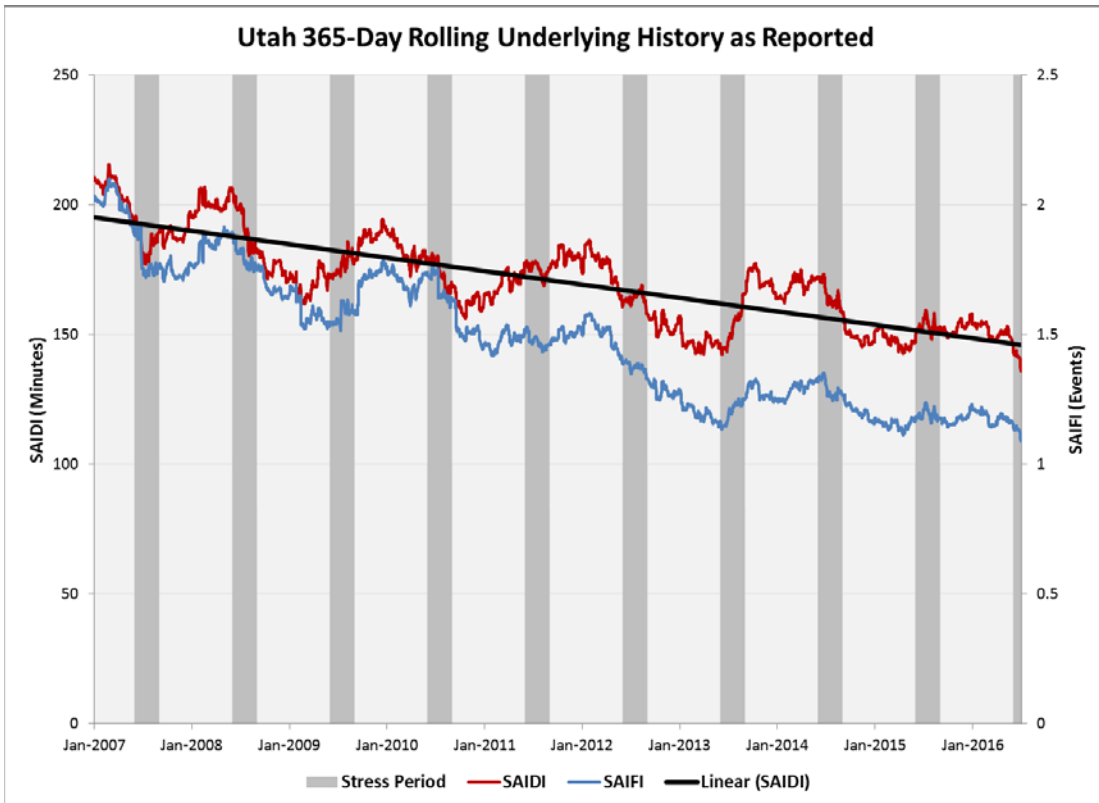
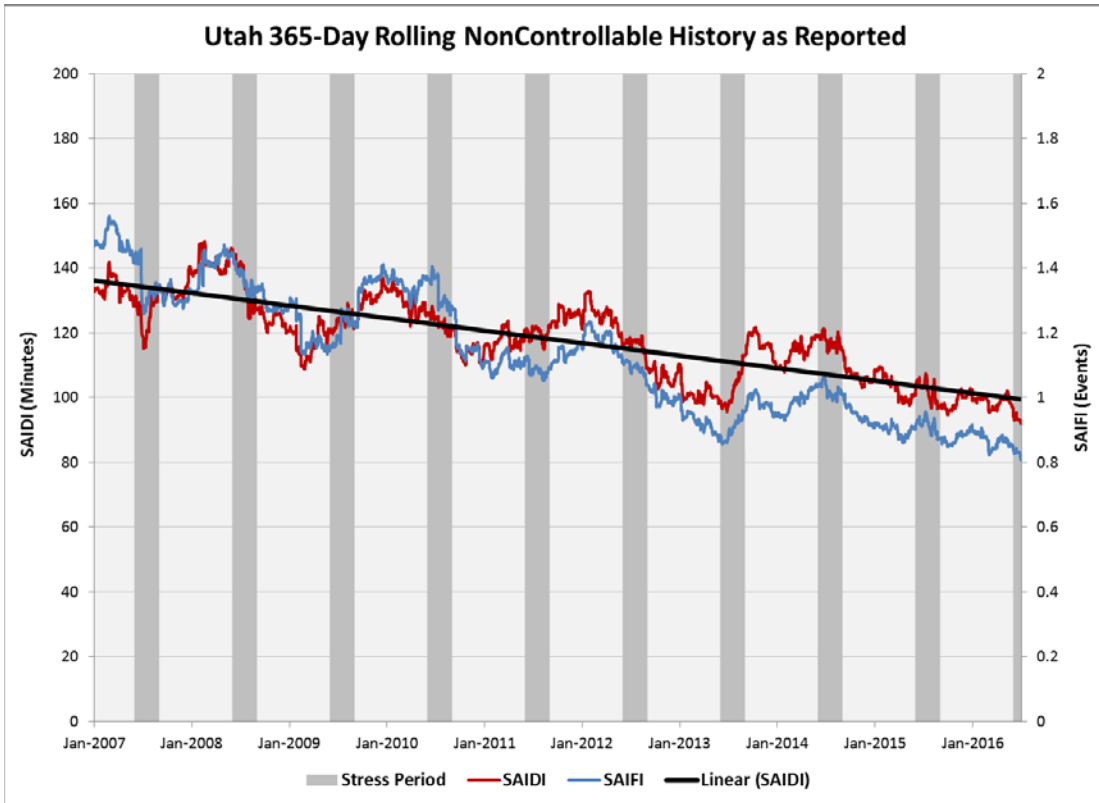
In 2008 the Company introduced a further categorization of outage causes, which it subsequently used to develop improvement programs as developed by engineering resources. This categorization was titled Controllable Distribution outages and recognized that certain types of outages can be cost-effectively avoided. So, for example, animal-caused interruptions, as well as equipment failure interruptions have a less random nature than lightning caused interruptions; other causes have also been determined and are specified in Section 2.5. Engineers can develop plans to mitigate against controllable distribution outages and provide better future reliability at the lowest possible cost. At that time, there was concern that the Company would lose focus on non-controllable outages⁴. In order to provide insight into the response and history for those outages, the charts below distinguish amongst the outage groupings.

The graphic history demonstrates controllable, non-controllable and underlying performance on a rolling 365-day basis. Analysis of the trends displayed in the charts below shows a general improving trend for all charts. In order to also focus on non-controllable outages, the Company has continued to improve its resilience to extreme weather using such programs as its visual assurance program to evaluate facility condition. It also has undertaken efforts to establish impacts of loss of supply events on its customers and deliver appropriate improvements when identified. It uses its web-based notification tool for alerting field engineering and operational resources when devices have exceeded performance thresholds in order to react as quickly as possible to trends in declining reliability. These notifications are conducted regardless of whether the outage cause was controllable or not.



⁴ 3. The Company shall provide, as an appendix to its Service Quality Review reports, information regarding non-controllable outages, including, when applicable, descriptions of efforts made by the Company to improve service quality and reliability for causes the Company has identified as not controllable.

4. The Company shall provide a supplemental filing, within 90 days, consisting of a process for measuring performance and improvements for the non-controllable events.



2.5 Cause Analysis Tables (Pre-Title 746-313 Modification)

Certain types of outages typically result in a large amount of customer minutes lost, but are infrequent, such as Loss of Supply outages. Others tend to be more frequent, but result in few customer minutes lost.

The cause analysis tables below detail SAIDI⁵ and SAIFI by direct cause, with separate tables for the company's Controllable metrics and its Underlying metrics. (Both tables exclude major events.) Following the detail tables are pie charts showing the percentages attributed to each cause category with respect to three measures: total incidents, total customer minutes lost and total sustained customer interruptions, again with separate pie charts for Controllable and Underlying.

Note that the Underlying cause analysis table includes prearranged outages (*Customer Requested and Customer Notice Given* line items) with subtotals for their inclusion, while the grand totals in the table exclude these prearranged outages so that grand totals align with reported SAIDI and SAIFI metrics for the period. The following pie and historical cause detail reflect the cause category performance; these charts exclude prearranged outages, to align with the underlying reportable results. Following the charts, a table of definitions provides descriptive examples for each direct cause category. Further cause analysis is explored in Section 2.7.

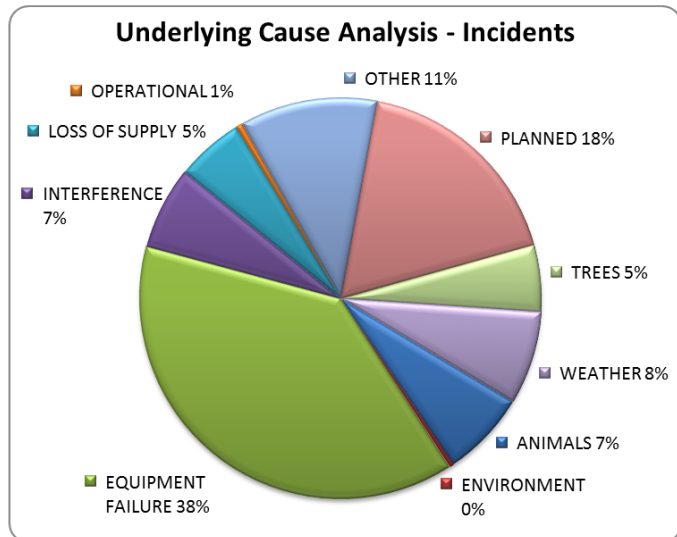
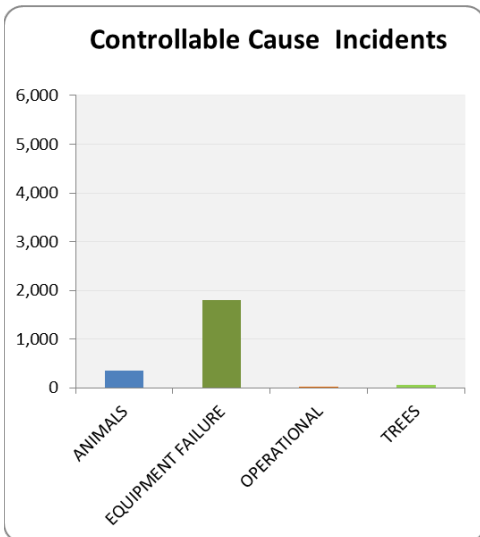
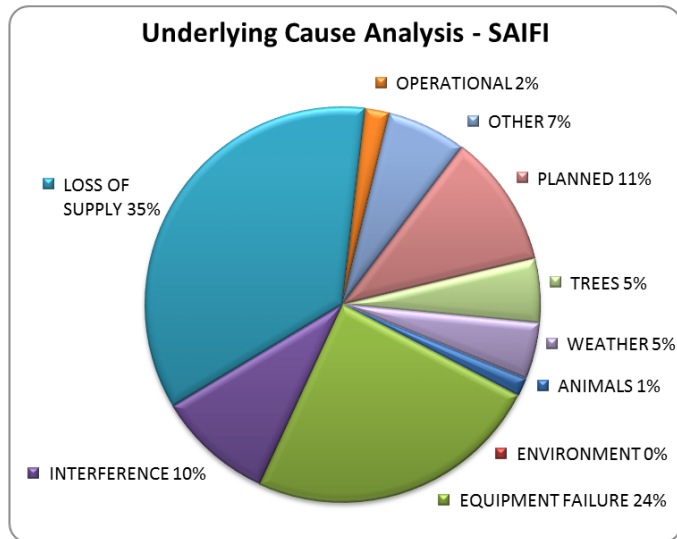
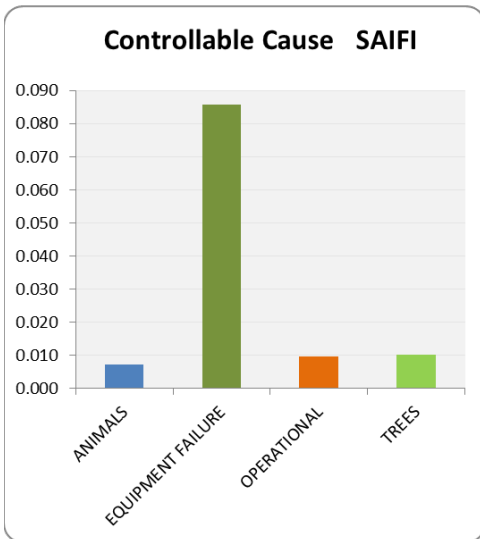
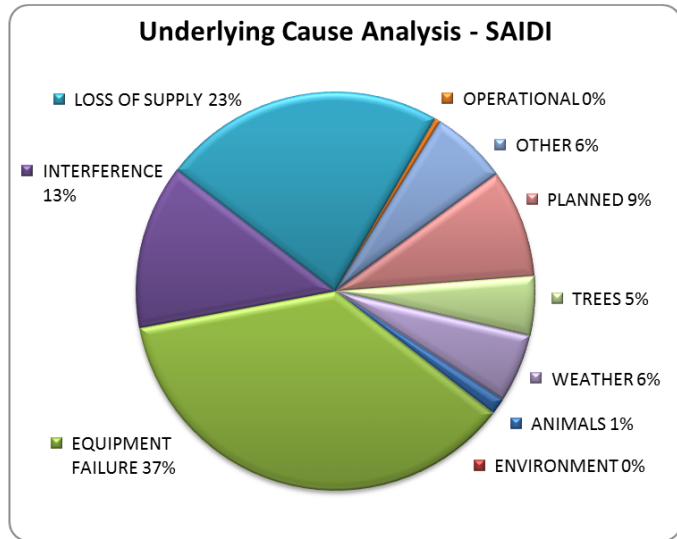
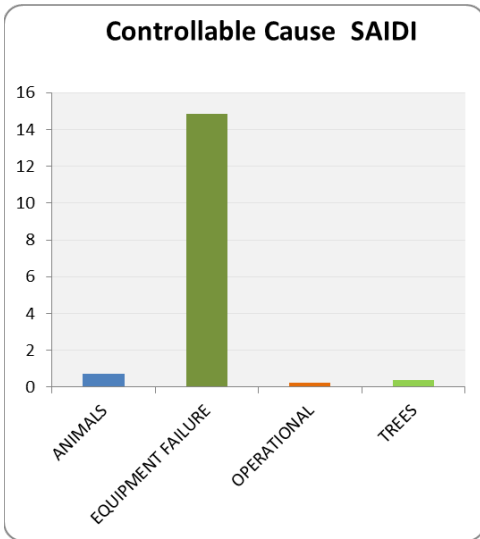
Utah Cause Analysis - Controllable 01/01/2016 - 06/30/2016					
Direct Cause	Customer Minutes Lost for Incident	Customers in Incident Sustained	Sustained Incident Count	SAIDI	SAIFI
ANIMALS	77,707	911	150	0.09	0.001
BIRD MORTALITY (NON-PROTECTED SPECIES)	92,070	2,320	82	0.11	0.003
BIRD MORTALITY (PROTECTED SPECIES) (BMTS)	386,872	2,200	39	0.44	0.003
BIRD NEST (BMTS)	19,741	165	27	0.02	0.000
BIRD SUSPECTED, NO MORTALITY	68,797	714	52	0.08	0.001
ANIMALS	645,186	6,310	350	0.74	0.007
B/O EQUIPMENT	1,736,262	10,437	286	1.98	0.012
DETERIORATION OR ROTTING	10,895,425	62,174	1,447	12.43	0.071
OVERLOAD	358,400	2,460	51	0.41	0.003
RELAYS, BREAKERS, SWITCHES	842	7	12	0.00	0.000
STRUCTURES, INSULATORS, CONDUCTOR	2,037	3	15	0.00	0.000
EQUIPMENT FAILURE	12,992,967	75,081	1,811	14.82	0.086
FAULTY INSTALL	157	2	2	0.00	0.000
IMPROPER PROTECTIVE COORDINATION	66,606	655	6	0.08	0.001
INCORRECT RECORDS	5,699	168	10	0.01	0.000
INTERNAL CONTRACTOR	242	1	1	0.00	0.000
PACIFICORP EMPLOYEE - FIELD	123,414	5,451	4	0.14	0.006
PACIFICORP EMPLOYEE - SUB	27,049	2,110	5	0.03	0.002
OPERATIONAL	223,168	8,387	28	0.25	0.010
TREE - TRIMMABLE	335,882	8,891	52	0.38	0.010
TREES	335,882	8,891	52	0.38	0.010
Utah Including Prearranged	14,197,203	98,669	2,241	16.20	0.113

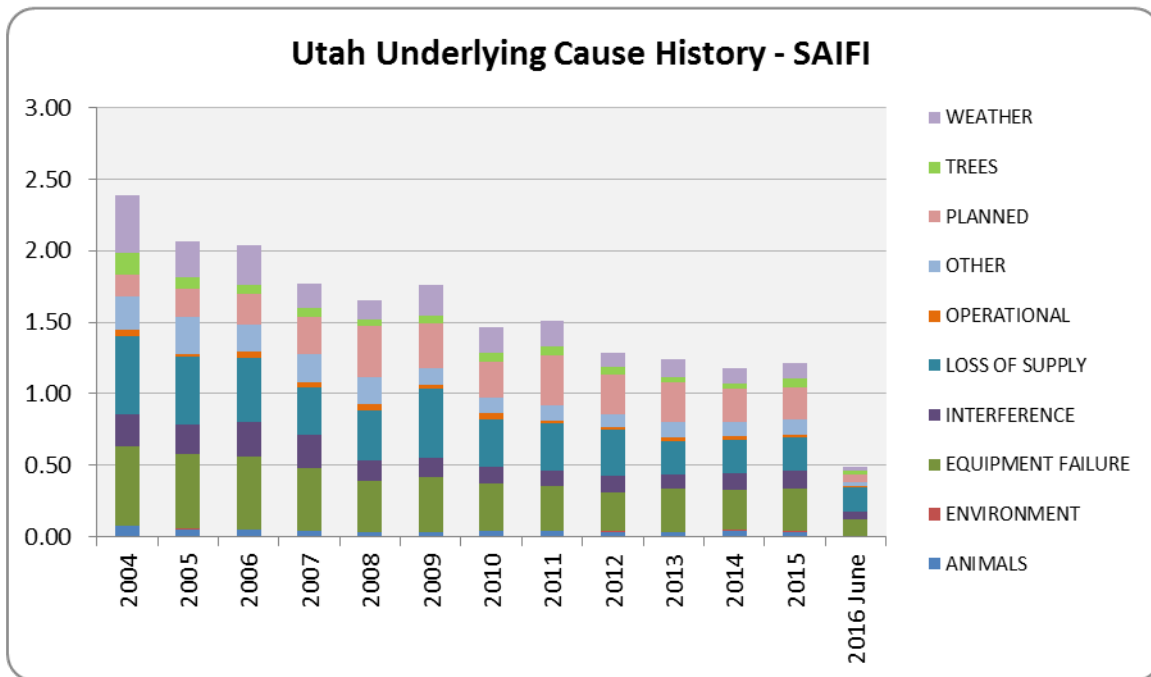
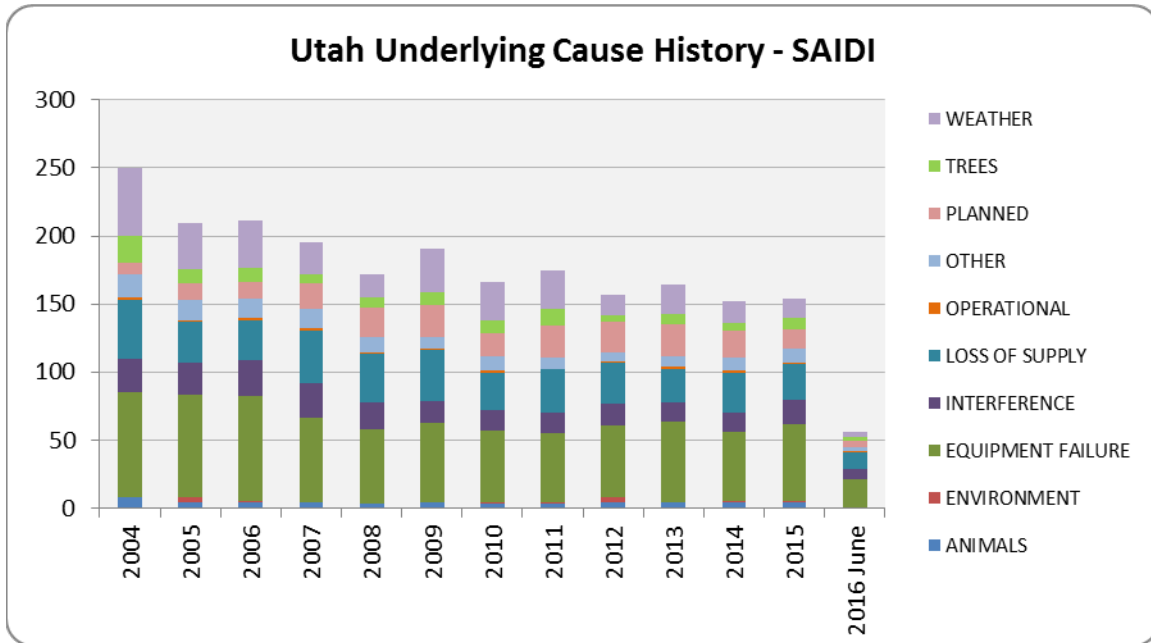
⁵ To convert SAIDI (Outage Duration) and SAIFI (Outage Frequency) to Customer Minutes Lost and Sustained Customer Interruptions, respectively, multiply the SAIDI or SAIFI value by 876,438 (2016 Utah frozen customer count).

Utah Cause Analysis - Underlying 01/01/2016 - 06/30/2016					
Direct Cause	Customer Minutes Lost for Incident	Customers in Incident Sustained	Sustained Incident Count	SAIDI	SAIFI
ANIMALS	77,707	911	150	0.09	0.001
BIRD MORTALITY (NON-PROTECTED SPECIES)	92,070	2,320	82	0.11	0.003
BIRD MORTALITY (PROTECTED SPECIES) (BMTS)	386,872	2,200	39	0.44	0.003
BIRD NEST (BMTS)	19,741	165	27	0.02	0.000
BIRD SUSPECTED, NO MORTALITY	68,797	714	52	0.08	0.001
ANIMALS	645,186	6,310	350	0.74	0.007
CONDENSATION / MOISTURE	2,623	12	4	0.00	0.000
CONTAMINATION	494	3	1	0.00	0.000
FIRE/SMOKE (NOT DUE TO FAULTS)	6,912	35	10	0.01	0.000
FLOODING	1,075	9	3	0.00	0.000
ENVIRONMENT	11,104	59	18	0.01	0.000
B/O EQUIPMENT	1,736,262	10,437	286	1.98	0.012
DETERIORATION OR ROTTING	10,895,425	62,174	1,447	12.43	0.071
NEARBY FAULT	12,910	339	3	0.01	0.000
OVERLOAD	358,400	2,460	51	0.41	0.003
POLE FIRE	4,764,310	27,713	125	5.44	0.032
RELAYS, BREAKERS, SWITCHES	842	7	12	0.00	0.000
STRUCTURES, INSULATORS, CONDUCTOR	2,037	3	15	0.00	0.000
EQUIPMENT FAILURE	17,770,187	103,133	1,939	20.28	0.118
DIG-IN (NON-PACIFICORP PERSONNEL)	1,372,532	9,020	99	1.57	0.010
OTHER INTERFERING OBJECT	315,796	4,004	46	0.36	0.005
OTHER UTILITY/CONTRACTOR	86,877	979	24	0.10	0.001
VANDALISM OR THEFT	1,147	6	4	0.00	0.000
VEHICLE ACCIDENT	4,730,159	26,418	165	5.40	0.030
INTERFERENCE	6,506,511	40,427	338	7.42	0.046
FAILURE ON OTHER LINE OR STATION	444	2	2	0.00	0.000
LOSS OF FEED FROM SUPPLIER	955	8	1	0.00	0.000
LOSS OF SUBSTATION	6,492,901	71,848	82	7.41	0.082
LOSS OF TRANSMISSION LINE	4,661,177	78,826	189	5.32	0.090
LOSS OF SUPPLY	11,155,477	150,684	274	12.73	0.172
FAULTY INSTALL	157	2	2	0.00	0.000
IMPROPER PROTECTIVE COORDINATION	66,606	655	6	0.08	0.001
INCORRECT RECORDS	5,699	168	10	0.01	0.000
INTERNAL CONTRACTOR	242	1	1	0.00	0.000
PACIFICORP EMPLOYEE - FIELD	123,414	5,451	4	0.14	0.006
PACIFICORP EMPLOYEE - SUB	27,049	2,110	5	0.03	0.002
OPERATIONAL	223,168	8,387	28	0.25	0.010
OTHER, KNOWN CAUSE	67,238	978	61	0.08	0.001
UNKNOWN	2,948,503	26,670	501	3.36	0.030
OTHER	3,015,742	27,648	562	3.44	0.032
CONSTRUCTION	123,946	1,479	104	0.14	0.002
CUSTOMER NOTICE GIVEN	9,412,070	57,342	1,521	10.74	0.065
CUSTOMER REQUESTED	15,760	74	33	0.02	0.000
EMERGENCY DAMAGE REPAIR	3,628,750	36,497	593	4.14	0.042
ENERGY EMERGENCY INTERRUPTION	10,907	53	3	0.01	0.000
INTENTIONAL TO CLEAR TROUBLE	343,586	6,046	44	0.39	0.007
MAINTENANCE	557	1	149	0.00	0.000
PLANNED NOTICE EXEMPT	205,064	3,937	64	0.23	0.004
TRANSMISSION REQUESTED	173,771	2,290	7	0.20	0.003
PLANNED	13,914,412	107,719	2,518	15.88	0.123
TREE - NON-PREVENTABLE	2,005,081	13,496	220	2.29	0.015
TREE - TRIMMABLE	335,882	8,891	52	0.38	0.010
TREES	2,340,963	22,387	272	2.67	0.026
FREEZING FOG & FROST	26	1	1	0.00	0.000
ICE	2,957	21	5	0.00	0.000
LIGHTNING	1,000,678	6,246	122	1.14	0.007
SNOW, SLEET AND BLIZZARD	497,379	2,823	57	0.57	0.003
WIND	1,208,191	10,454	197	1.38	0.012
WEATHER	2,709,232	19,545	382	3.09	0.022
Utah Including Prearranged	58,291,982	486,299	6,681	66.51	0.555
Utah Excluding Prearranged	48,659,088	424,946	5,063	55.52	0.485

UTAH

January 1 – June 30, 2016





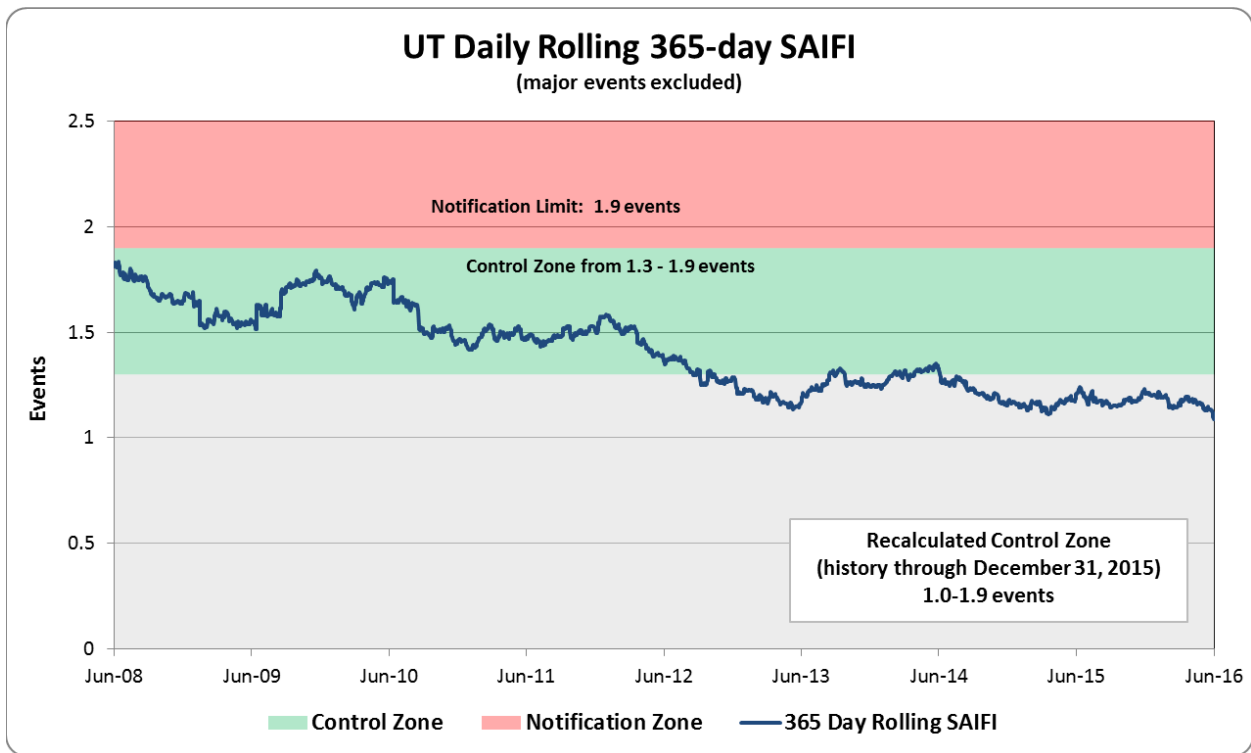
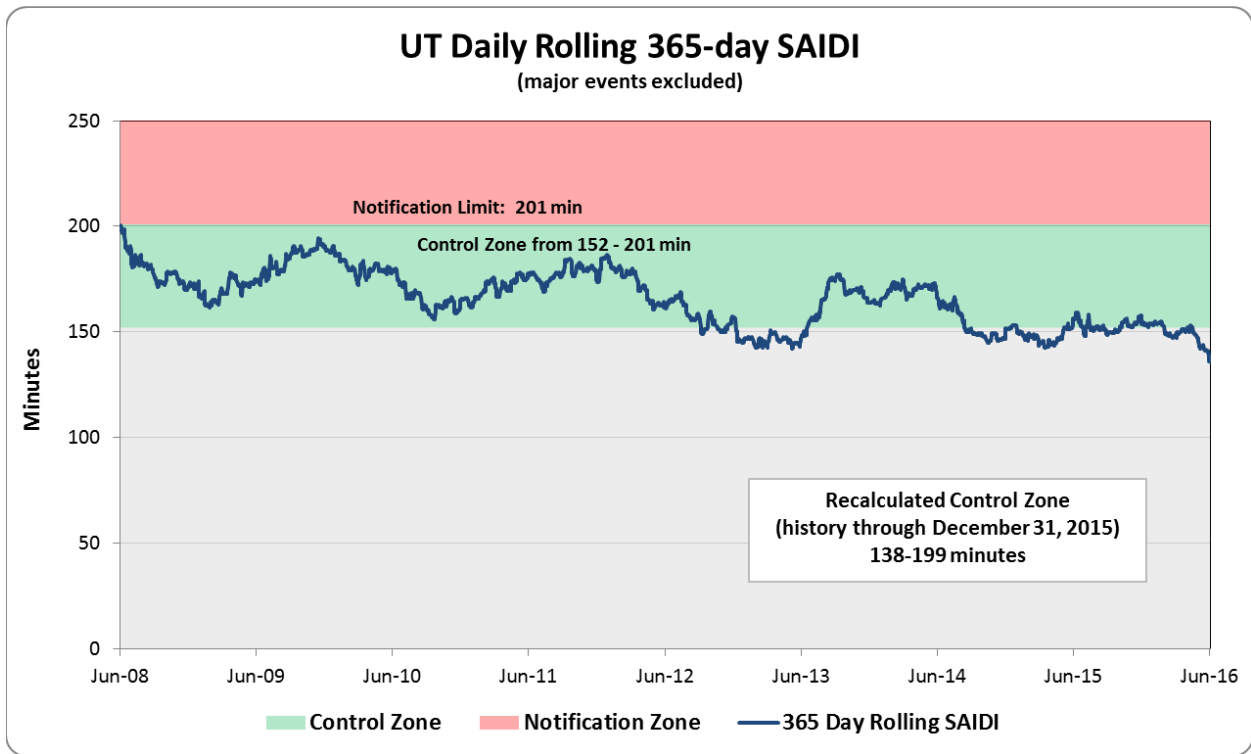
Direct Cause Category	Category Definition & Example/Direct Cause
Animals	Any problem nest that requires removal, relocation, trimming, etc.; any birds, squirrels or other animals, whether or not remains found.
	<ul style="list-style-type: none"> • Animal (Animals) • Bird Mortality (Non-protected species) • Bird Mortality (Protected species)(BMTS) <ul style="list-style-type: none"> • Bird Nest • Bird or Nest • Bird Suspected, No Mortality
Environment	Contamination or Airborne Deposit (i.e. salt, trona ash, other chemical dust, sawdust, etc.); corrosive environment; flooding due to rivers, broken water main, etc.; fire/smoke related to forest, brush or building fires (not including fires due to faults or lightning).
	<ul style="list-style-type: none"> • Condensation/Moisture • Contamination • Fire/Smoke (not due to faults) • Flooding <ul style="list-style-type: none"> • Major Storm or Disaster • Nearby Fault • Pole Fire
Equipment Failure	Structural deterioration due to age (incl. pole rot); electrical load above limits; failure for no apparent reason; conditions resulting in a pole/cross arm fire due to reduced insulation qualities; equipment affected by fault on nearby equipment (e.g., broken conductor hits another line).
	<ul style="list-style-type: none"> • B/O Equipment • Overload <ul style="list-style-type: none"> • Deterioration or Rotting • Substation, Relays
Interference	Willful damage, interference or theft; such as gun shots, rock throwing, etc.; customer, contractor or other utility dig-in; contact by outside utility, contractor or other third-party individual; vehicle accident, including car, truck, tractor, aircraft, manned balloon; other interfering object such as straw, shoes, string, balloon.
	<ul style="list-style-type: none"> • Dig-in (Non-PacifiCorp Personnel) • Other Interfering Object • Vandalism or Theft <ul style="list-style-type: none"> • Other Utility/Contractor • Vehicle Accident
Loss of Supply	Failure of supply from Generator or Transmission system; failure of distribution substation equipment.
	<ul style="list-style-type: none"> • Failure on other line or station • Loss of Feed from Supplier • Loss of Generator <ul style="list-style-type: none"> • Loss of Substation • Loss of Transmission Line • System Protection
Operational	Accidental Contact by PacifiCorp or PacifiCorp's Contractors (including live-line work); switching error; testing or commissioning error; relay setting error, including wrong fuse size, equipment by-passed; incorrect circuit records or identification; faulty installation or construction; operational or safety restriction.
	<ul style="list-style-type: none"> • Contact by PacifiCorp • Faulty Install • Improper Protective Coordination • Incorrect Records • Internal Contractor <ul style="list-style-type: none"> • Internal Tree Contractor • Switching Error • Testing/Startup Error • Unsafe Situation
Other	Cause Unknown; use comments field if there are some possible reasons.
	<ul style="list-style-type: none"> • Invalid Code • Other, Known Cause <ul style="list-style-type: none"> • Unknown
Planned	Transmission requested, affects distribution sub and distribution circuits; Company outage taken to make repairs after storm damage, car hit pole, etc.; construction work, regardless if notice is given; rolling blackouts.
	<ul style="list-style-type: none"> • Construction • Customer Notice Given • Energy Emergency Interruption • Intentional to Clear Trouble <ul style="list-style-type: none"> • Emergency Damage Repair • Customer Requested • Transmission Requested
Tree	Growing or falling trees
	<ul style="list-style-type: none"> • Tree-Non-preventable • Tree-Trimable <ul style="list-style-type: none"> • Tree-Tree felled by Logger
Weather	Wind (excluding windborne material); snow, sleet or blizzard, ice, freezing fog, frost, lightning.
	<ul style="list-style-type: none"> • Extreme Cold/Heat • Freezing Fog & Frost • Wind <ul style="list-style-type: none"> • Lightning • Rain • Snow, Sleet, Ice and Blizzard

2.6 Baseline Performance

In compliance with Utah Reliability Reporting Rules, the Company developed performance baselines that it subsequently filed for approval (based on 2008-2012 history). These baselines were approved, but stakeholders advocated that periodically refreshing baseline levels would be beneficial. As a result this section of the report is updated using the methods that resulted in the approved baselines; refreshing through December 31, 2015 yields the values shown below. In spite of performing this recalculation the Company is not advocating modifications to these baselines.

The Company refreshed the dataset and calculated using the last six years of daily reliability data, which was selected to align with major event calculations, but required the addition of the prior 365 days in order to construct the daily rolling 365-days curves used for these calculations. The 365-day average performance was 176 minutes and 1.59 events. The baselines filed were based on a 95% probability and resulted in a SAIDI range of 152-201 minutes and a SAIFI range of 1.3-1.9 events. The same methods applied through December 31, 2015 result in an average of 169 minutes and 1.45 events, with a SAIDI range of 144-192 minutes and a SAIFI range of 1.1-1.8 events. These values are shown in the table below. Values will be recalculated for the current year in the annual report.

	SAIDI (Minutes)			SAIFI (Events)		
	Average	Lower Value Control Zone	Upper Value Control Zone	Average	Lower Value Control Zone	Upper Value Control Zone
As Filed	176	152	201	1.59	1.3	1.9
Recalculated through December 31, 2015	169	138	199	1.45	1.0	1.9
2015 Period (January 1-December 31, 2015)	151	143	158	1.17	1.12	1.22



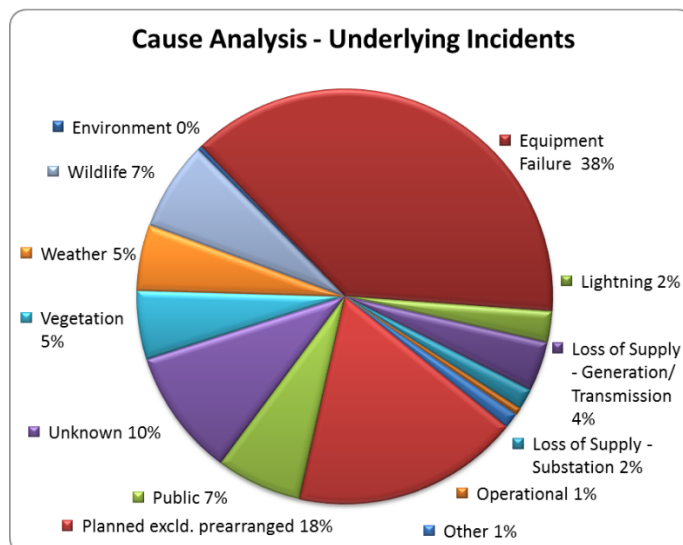
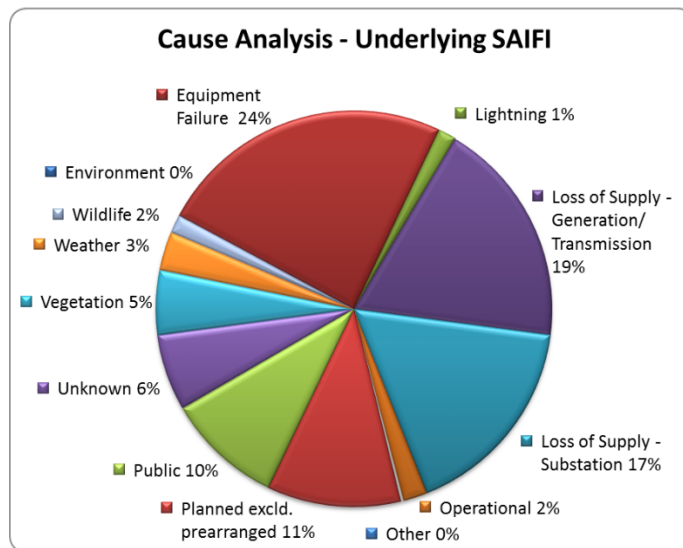
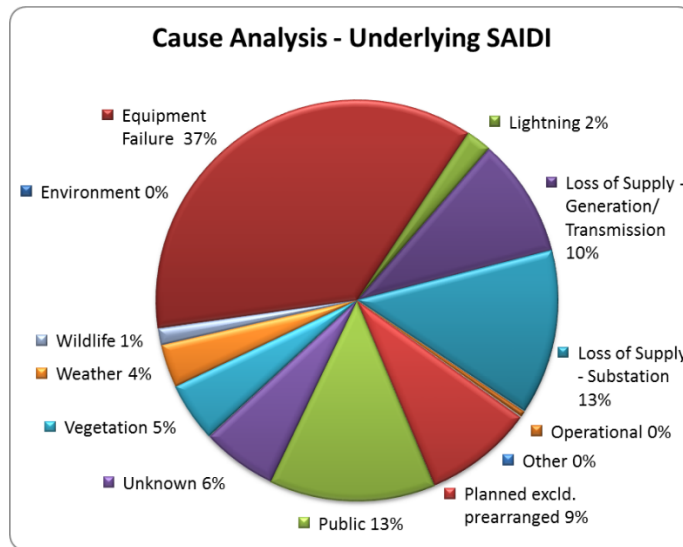
2.7 Reliability Reporting Post-Rule R.746-313 Modifications

In 2012, the Company and stakeholders developed reliability reporting rules that are codified in Utah Rule R746.313. Certain reliability reporting details were outlined in these rules that had not been previously required in the Company’s Service Quality Review Report. Certain elements may be at least partially redundant or segmented differently than has been provided in the past. Thus, in order to include both, the new required segmentation in addition to the pre-reporting rule segmentation was considered the ideal reporting approach. As this report evolves, certain of these redundancies may be eliminated.

The final rule required five-year history at an operating area level for SAIDI, SAIFI and CAIDI. At a state level, these metrics in addition to MAIFI_e are required.

Major Events and Prearranged Excluded*	2012				2013				2014				2015				2016 June			
STATE	SAIDI	SAIFI	CAIDI	MAIFI _e	SAIDI	SAIFI	CAIDI	MAIFI _e	SAIDI	SAIFI	CAIDI	MAIFI _e	SAIDI	SAIFI	CAIDI	MAIFI _e	SAIDI	SAIFI	CAIDI	MAIFI _e
Utah	157	1.3	122	0.72	164	1.2	132	0.81	152	1.2	129	1.21	154	1.2	127	1.48	56	0.5	115	0.84
OP AREA																				
AMERICAN FORK	101	0.8	135		126	1.3	99		113	1.0	109		134	1.1	128		54	0.7	77	
CEDAR CITY	279	1.8	154		225	1.8	127		170	1.1	151		238	1.6	146		103	0.7	155	
CEDAR CITY (MILFORD)	363	2.8	129		707	3.3	213		891	3.3	271		334	3.6	92		149	2.7	55	
JORDAN VALLEY	106	0.8	129		106	0.7	145		103	0.7	141		128	1.0	126		48	0.4	136	
LAYTON	105	0.8	131		105	1.0	109		108	0.8	127		122	1.1	109		52	0.4	126	
MOAB	375	3.1	122		284	1.9	147		412	2.3	181		426	3.5	122		144	1.1	130	
OGDEN	153	1.3	117		168	1.4	122		218	1.9	113		175	1.4	123		52	0.4	138	
PARK CITY	184	1.8	100		232	1.5	155		147	1.1	140		247	1.5	162		137	1.2	111	
PRICE	133	1.4	97		514	1.8	293		394	2.2	180		230	1.8	127		93	1.3	71	
RICHFIELD	200	2.0	100		469	3.4	138		181	1.7	104		303	2.2	137		35	0.6	56	
RICHFIELD (DELTA)	329	2.9	113		316	3.7	85		202	1.9	108		536	3.0	180		53	0.4	138	
SLC METRO	129	1.2	112		170	1.2	139		145	1.1	129		107	0.9	125		42	0.3	124	
SMITHFIELD	267	2.6	102		81	0.7	117		114	0.9	126		236	1.6	150		27	0.3	104	
TOOELE	595	3.7	163		137	1.3	103		239	2.1	115		129	1.3	103		38	0.3	122	
TREMONTON	447	3.0	147		335	3.3	102		216	2.0	111		462	4.2	110		185	2.1	89	
VERNAL	236	2.9	82		160	2.1	75		119	1.2	101		68	0.8	87		23	0.2	142	

Utah Cause Category	2012		2013		2014		2015		2016 June	
	SAIDI	SAIFI	SAIDI	SAIFI	SAIDI	SAIFI	SAIDI	SAIFI	SAIDI	SAIFI
Environment	4	0.0	0	0.0	1	0.0	1	0.0	0	0.0
Equipment Failure	53	0.3	60	0.3	51	0.3	56	0.3	20	0.1
Lightning	4	0.0	9	0.1	7	0.1	6	0.1	1	0.0
Loss of Supply - Generation/Transmission	25	0.3	19	0.2	23	0.2	22	0.2	5	0.1
Loss of Supply - Substation	5	0.1	6	0.0	6	0.0	5	0.0	7	0.1
Operational	0	0.0	1	0.0	1	0.0	1	0.0	0	0.0
Other	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Planned (excl. Prearranged)	22	0.3	24	0.3	20	0.2	14	0.2	5	0.1
Public	16	0.1	14	0.1	15	0.1	18	0.1	7	0.0
Unknown	7	0.1	8	0.1	10	0.1	10	0.1	3	0.0
Vegetation	5	0.1	7	0.0	6	0.0	8	0.1	3	0.0
Weather	11	0.1	12	0.1	8	0.0	8	0.0	2	0.0
Wildlife	4	0.0	4	0.0	4	0.0	5	0.0	1	0.0
UTAH Underlying	157	1.3	164	1.2	151	1.2	154	1.2	56	0.5



2.8 Reduce CPI for Worst Performing Circuits by 20%

On a routine basis, the Company reviews circuits for performance. One of the measures that it uses is called circuit performance indicator (CPI), which is a blended weighting of key reliability metrics covering a three-year period. The higher the number, the poorer the blended performance the circuit is delivering. As part of the Company's Performance Standards Program, it annually selects a set of Worst Performing Circuits for improvements, which are to be completed within two years of selection. Within five years of selection, the average performance of the five-selection set must improve by at least 20% (as measured by comparing current performance against baseline performance).

2.8.1 Circuit Performance Score Updates for Prior-Year Selections

Annually, the company tracks the performance of circuits designated in the Worst Performing Circuits program, until the Program Year has successfully met the target score.

WORST PERFORMING CIRCUITS	STATUS	BASELINE ⁶	Performance 6/30/2016
Program Year 17: (CY2016)			
Red mountain 33	IN PROGRESS	1283	1093
Fountain Green 12	IN PROGRESS	266	275
Middleton 24	IN PROGRESS	253	271
Willowridge 11	IN PROGRESS	177	167
Summitt Park 11	IN PROGRESS	116	141
TARGET SCORE = 335		419	389
Program Year 16: (CY2015)			
Nibley 21	COMPLETE	179	194
Brighton 12	COMPLETE	270	249
Rattlesnake 22	IN PROGRESS	456	399
Decker Lake 12	COMPLETE	167	110
Toquerville 31	COMPLETE	475	473
TARGET SCORE = 248		309	285
Program Year 15: (CY2014)			
Skull Valley 11	COMPLETE	468	304
Fort Douglas 13	COMPLETE	417	163
Parowan Valley 25	COMPLETE	408	419
Brighton 21	COMPLETE	364	269
Bush 12	COMPLETE	281	246
TARGET SCORE = 248		310	280

⁶ RMP transitioned fully to applying CPI99 rather than CPI05 based on prior review with Stakeholders where the limitations of CPI05 were explored. Due to inclusion of major event and transmission outages, reporting period comparisons yielded a limited ability to identify the benefits of improvements made for each of the circuits. The application of CPI99 proved to demonstrate more consistently how performance comparisons could be made.

Program Year 14: (CY2013)			
Snyderville 16	COMPLETE	72	66
Eden 11	COMPLETE	116	204
Bush 11	COMPLETE	228	149
Pioneer 12	COMPLETE	177	73
Grantsville 12	COMPLETE	250	168
TARGET SCORE = 108		135	132
Program Year 13: (CY2012)			
Fielding 11	COMPLETE	207	339
East Bench 12	COMPLETE	112	54
Clinton 11	COMPLETE	133	30
Redwood 16	COMPLETE	145	42
Orangeville 11	COMPLETE	114	21
TARGET SCORE = 114	Target Met	142	97
Program Year 12: (CY2011)			
Lincoln 15	COMPLETE	173	53
Huntington City 12	COMPLETE	285	62
Magna 15	COMPLETE	140	51
Gunnison 12	COMPLETE	110	55
Capitol 11	COMPLETE	129	74
TARGET SCORE = 134	Target Met	167	59
Program Year 11: (CY2010)			
Decker Lake 12	COMPLETE	102	110
North Bench 13	COMPLETE	95	46
Newgate 14	COMPLETE	164	71
Newton 12	COMPLETE	105	43
St Johns 11	COMPLETE	547	318
TARGET SCORE = 162	Target Met	203	118
Program Year 10: (CY2009)			
Fruit Heights 12	COMPLETE	113	91
Mathis 12	COMPLETE	132	90
Parrish 11	COMPLETE	137	64
Valley Center 11	COMPLETE	169	34
Hammer 15	COMPLETE	95	46
TARGET SCORE = 104	Target Met	129	65

Note: Goals were met for Program Years 1 through 13 and filed in prior reporting periods; however, data for Program Years 10-13 are retained in this report in order to show circuit selections over a longer period of history for discussion purposes.

2.9 Restore Service to 80% of Customers within 3 Hours

RESTORATIONS WITHIN 3 HOURS					
Reporting Period Cumulative = 88%					
January	February	March	April	May	June
71%	91%	91%	92%	91%	79%
July	August	September	October	November	December
-	-	-	-	-	-

2.10 CAIDI Performance

The table below shows the average time, during the reporting period, for outage restoration. This augments previous reporting for the percent of customers whose power was restored within 3 hours of notification of an outage event and uses IEEE industry indices.

CAIDI (Average Outage Duration)	
Underlying Performance	115 minutes
Total Performance	156 minutes

2.11 Telephone Service and Response to Commission Complaints

COMMITMENT	GOAL	PERFORMANCE
PS5-Answer calls within 30 seconds	80%	80%
PS6a) Respond to commission complaints within 3 days	95%	100%
PS6b) Respond to commission complaints regarding service disconnects within 4 hours	95%	NA*
PS6c) Address commission ⁷ complaints within 30 days	100%	100%

*None received

⁷ Rocky Mountain Power follows the definitions for informal and formal complaints as set forth in the Utah Code, Title 54, Public Utilities Statutes and Public Service Commission Rules, R746-200-8 Informal review (A) and Commission review (D).

2.12 Utah Commitment U1

To identify when a ‘wide-scale’ outage has occurred, the company examines call data for customers who have selected either the power emergency or power outage option within the company’s call menu. However, in order to report on performance during a ‘wide-scale’ outage, the company must use network information, which provides information for all call types, not just outage calls. Therefore, using the menu level data the company has identified the time intervals that exceed the agreed upon standard 2,000 calls/hour, and reports the network level statistics for the same intervals.

Through June 30, 2016, there were three dates identified as a wide-scale outage days; call statistics are shown in the table below. The outage event on January 4th was an emergency damage repair outage which occurred at the Murder Creek Substation in Albany, Oregon, resulting in approximately 6,500 customer out of service for 9 minutes. On February 2nd a loss in transmission outage occurred in American Fork, Utah, resulting in approximately 7,600 customers out of service for durations ranging from 31 minutes to just under 2 hours. On April 15th a loss of substation event occurred in Stayton, Oregon, when a transformer fuse blew, resulting in approximately 9,000 customers out of service with all outages restored within 2 hours 19 minutes.

Date	Interval start/finish (Mountain Time)		Network Total Calls*	Calls received but not delivered**	# of Calls Abandoned from Agent Queue	Max Delay Time Seconds***	ASA Seconds
1/4/2016	15:30	15:44	586	38	15	379	58
	15:45	15:59	1207	126	38	287	39
	16:00	16:14	530	0	30	126	29
	16:15	16:29	517	0	14	148	87
2/2/2016	14:15	14:29	1346	111	1	52	5
	14:30	14:44	852	0	6	97	15
	14:45	14:59	535	0	5	67	19
	15:00	15:15	501	0	1	88	26
4/15/2016	9:30	9:44	924	48	55	401	84
	9:45	9:59	1033	10	14	174	36
	10:00	10:14	622	0	8	145	50
	10:15	10:29	634	0	13	140	56

Twenty First Century, an external Interactive Voice Response system, was utilized.

* All customers attempting to reach PacifiCorp Network.

** When Twenty First Century is manually invoked, the AT&T Network returns a courtesy message to non-outage callers. This includes repeated attempts.

*** Longest time any customer waited.

2.13 Utah State Customer Guarantee Summary Status

customer *guarantees*

January to June 2016

Utah

Description	2016				2015			
	Events	Failures	% Success	Paid	Events	Failures	% Success	Paid
CG1 Restoring Supply	428,732	0	100%	\$0	525,996	1	100.00%	\$50
CG2 Appointments	4,202	6	99.86%	\$300	3,664	3	99.92%	\$150
CG3 Switching on Power	3,170	0	100%	\$0	3,793	1	99.97%	\$50
CG4 Estimates	652	1	99.85%	\$50	649	1	99.85%	\$50
CG5 Respond to Billing Inquiries	929	0	100%	\$0	873	2	99.77%	\$100
CG6 Respond to Meter Problems	413	0	100%	\$0	375	1	99.73%	\$50
CG7 Notification of Planned Interruptions	57,283	23	99.96%	\$1,150	45,486	16	99.96%	\$800
	495,381	30	99.99%	\$1,500	580,836	25	99.99%	\$1,250

Overall Customer Guarantee performance remains above 99%, demonstrating Rocky Mountain Power's continued commitment to customer satisfaction.

Major Events are excluded from the Customer Guarantees program. The program also defines certain exemptions, which are primarily for safety, access to outage site, and emergencies.

3 MAINTENANCE COMPLIANCE TO ANNUAL PLAN

3.1 T&D Preventive and Corrective Maintenance Programs

Preventive Maintenance

The primary focus of the preventive maintenance plan is to inspect facilities, identify abnormal conditions⁸, and perform appropriate preventive actions upon those facilities. Assessment of policies, including the costs and benefits of delivery of these policies, will result in modifications to them. Thus, local triggers that result in more frequent or more burdensome inspection and maintenance practices have resulted in refinement to some of these PM activities. As the Company continues this assessment, further variations of the policies will result in refinement to the maintenance plan.

Transmission and Distribution Lines

- Visual assurance inspections are designed to identify damage or defects that may endanger public safety or adversely affect the integrity of the electric system.
- Detailed inspections are in depth visual inspections of each structure and the spans between each structure or pad-mounted distribution equipment.⁹
- Pole testing includes a sound and bore to identify decay pockets that would compromise the wood pole's structural integrity.

Substations and Major Equipment

- Rocky Mountain Power inspects and maintains substations and associated equipment to ascertain all components within the substation are operating as expected. Abnormal conditions that are identified are prioritized for repair (corrective maintenance).
- Rocky Mountain Power has a condition based maintenance program for substation equipment including load tap changers, regulators, and transmission circuit breakers. Diagnostic testing is performed on a time based interval and the results are analyzed to determine if the equipment is suitable for service or maintenance tasks to be performed. Protection system and communication system maintenance is performed based on a time interval basis.

Corrective Maintenance

The primary focus of the corrective maintenance plan is to correct the abnormal conditions found during the preventive maintenance process.

Transmission and Distribution Lines

- Correctable conditions are identified through the preventive maintenance process.
- Outstanding conditions are recorded in a database and remain until corrected.

Substations and Major Equipment

⁸ The primary focus of the preventive maintenance plan is to inspect facilities, identify abnormal conditions, and perform appropriate preventive actions upon those facilities. Condition priorities are as follows:

Priority A: Conditions that pose a potential but not immediate hazard to the public or employees, or that risk loss of supply or damage to the electrical system.

Priority B: Conditions that are nonconforming, but that in the opinion of the inspector do not pose a hazard.

Priority C: Conditions that are nonconforming, but that in the opinion of the inspector do not need to be corrected until the next scheduled work is performed on that facility point.

Priority D: Conditions that conform to the NESC and are not reportable to the associated State Commission. Priority G: Conditions that conform to the regulations requirement that was in place when construction took place but do not conform to more recent code adoptions. These conditions are "grandfathered" and are considered conforming.

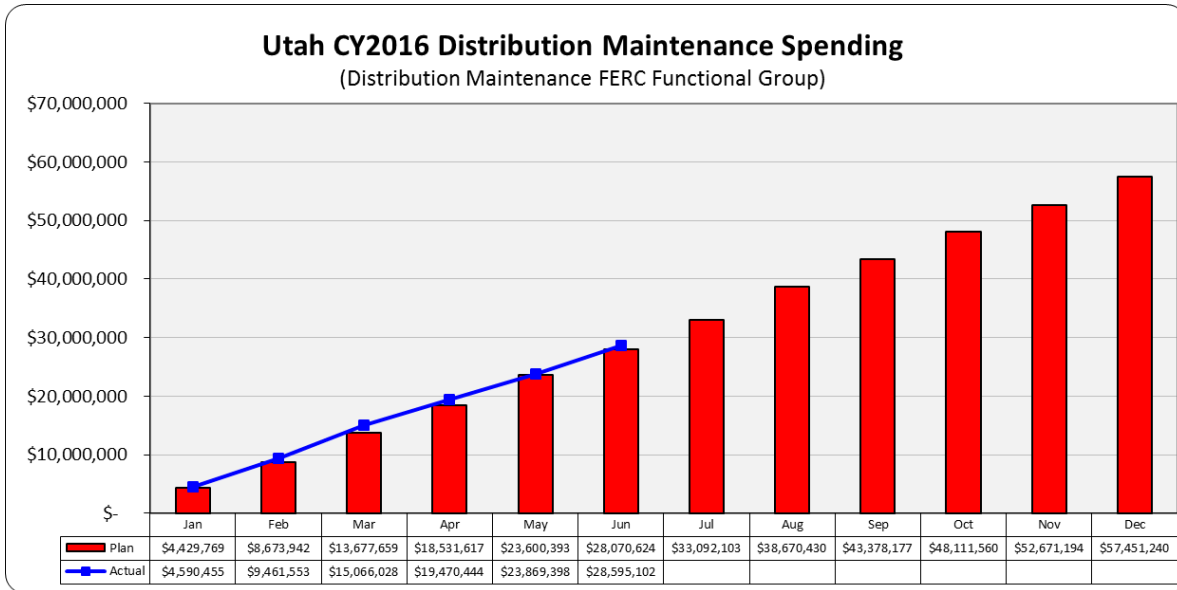
⁹ Effective 1/1/2007, Rocky Mountain Power modified its reliability & preventive planning methods to utilize repeated reliability events to prioritize localized preventive maintenance activities, using its Reliability Work Planning methodology. At this time, repeated outage events experienced by customers will result in localized inspection and correction activities, rather than being programmatically performed at either the entire circuit or map section level.

UTAH

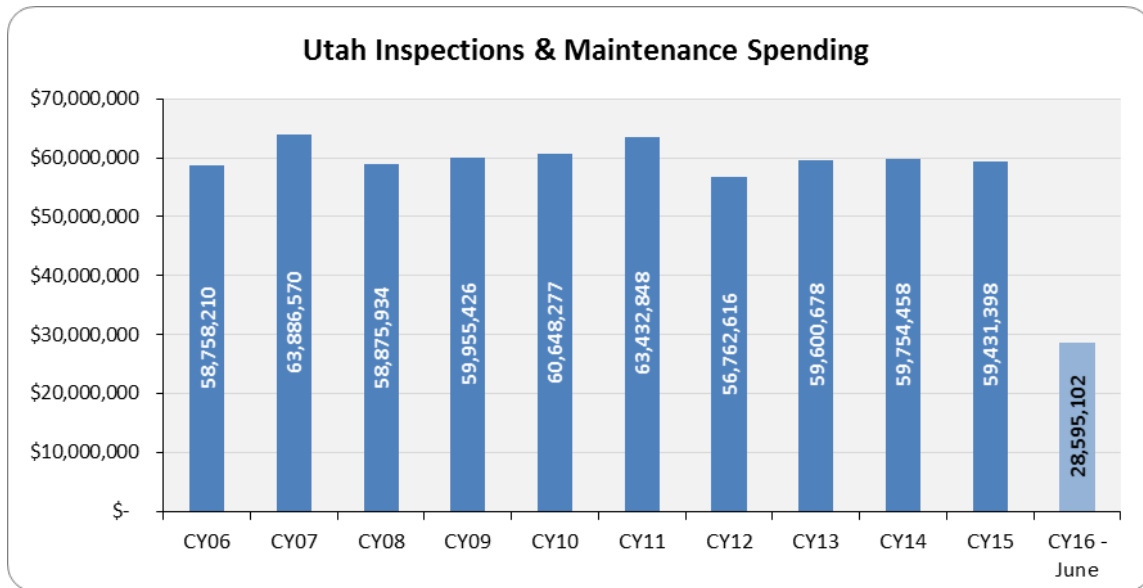
January 1 – June 30, 2016

- Correctable conditions are identified through the preventive maintenance process, often associated with actions performed on major equipment.
- Corrections consist of repairing equipment or responding to a failed condition.

3.2 Maintenance Spending^{10,11}



3.2.1 Maintenance Historical Spending

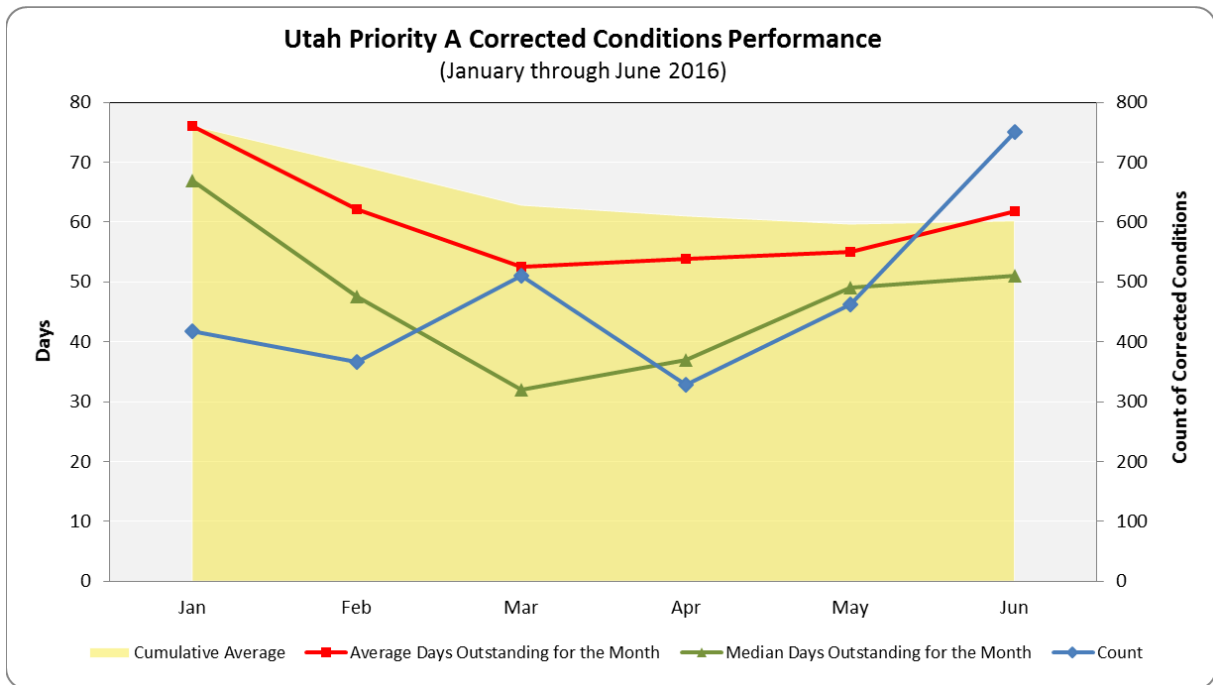


¹⁰ Maintenance spending reflected does not include Vegetation Management and Fault Locating costs, which when reporting under FERC accounting methodology, FERC has traditionally considered maintenance.

¹¹ The Utah distribution maintenance total plan of \$63.8m is overstated by \$6.4m due to a misplaced system allocated entry in the plan. The Utah distribution maintenance plan should be \$57.4m. The overall PacifiCorp plan is correct as actual expenses for the misplaced plan item will be incurred in the correct department for which no plan exists.

3.3 Distribution Priority “A” Conditions Correction History

The Company reports history of A priority corrections. This reporting element dates back to Docket-04-035-070, which expired on December 31, 2011. In this commitment the Company was required to correct distribution A priority conditions on average within 120 days. After the commitment expired, stakeholders requested the Company continue to report the information, believing it to be a useful indicator of work delivered by the Company. As can be seen in the chart below, the company has consistently delivered the average age of priority A conditions well below the 120 day target.



Oldest Outstanding Priority A Conditions In Utah

District	Map-string	Pole	Condition	Inspection Remarks	Inspection Date	Completion Date	Days to Fix	Circuit	Explanation
Ogden	11205002	120304	BOXFRMR	UNSECURE LID 16530088	8/18/2015	7/11/2016	328	MID13	An order was created to secure the lid, however, on further inspection, it was determined that the transformer needed to be replaced. The work was delayed until subsequent review of outstanding work identified that this item still needed to be done.
American Fork	82036	308	BOXBRACE	BOLT LOOSE, BRACES PULLED FROM POLE 16453622	10/1/2015	7/29/2016	302	082036	The work couldn't be performed on this line until an outage window was available.
American Fork	82042	187	BOXARM	12T CONSTRUCTION XARM BROKEN, PIN FALLING OUT	10/1/2015	8/9/2016	313	082042	The work couldn't be performed on this line until work was completed on the Soldier Summit 46 kV Line and an outage window was available.
American Fork	82042	524	BOXARM	12T CONSTRUCTION XARM BROKEN	10/1/2015	8/25/2016	329	082042	The work couldn't be performed on this line until work was completed on the Soldier Summit 46 kV Line and an outage window is available.
American Fork	78005	314	BOPOLE	BURNED OFF TOP SECTION OF POLE. TEMP FIXED.	10/9/2015			078005	It took a couple of months to engineer a solution, and construction can't take place in the winter because this structure will need to be blasted and the pole will need to be placed with a helicopter. There is a road directly beneath the structure that will need to be closed during digging. The project has been re-scoped and we are in the process of awarding the bid and initiating construction in October.

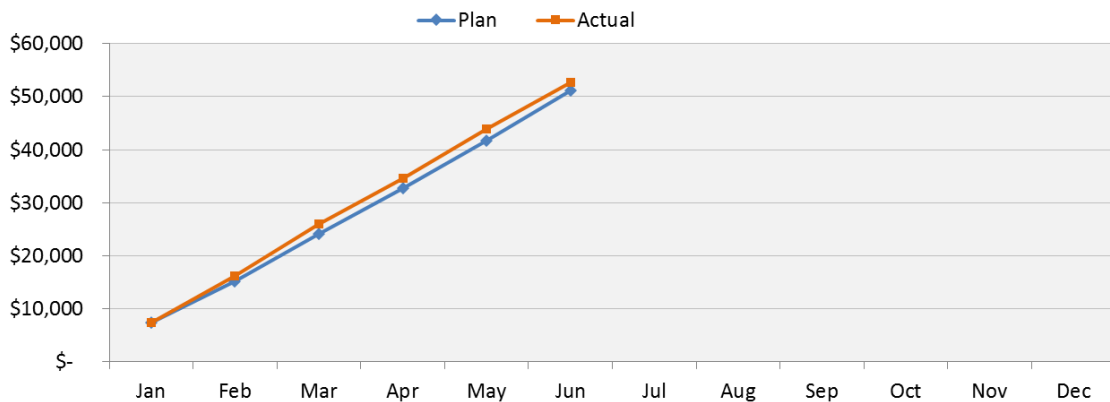
4 CAPITAL INVESTMENT

4.1 Capital Spending - Distribution and General Plant

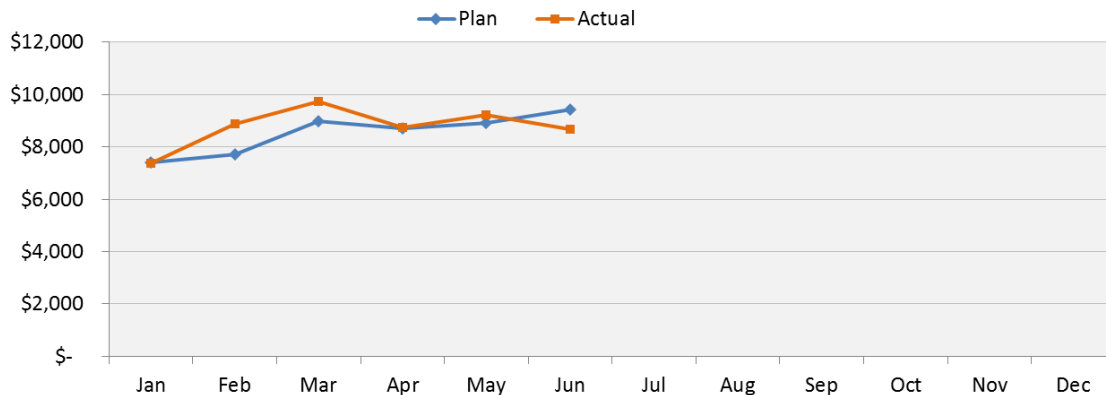
January –June 2016

Investment	Actuals (\$M)	Target (\$M)	Significant Variances
1. Mandated	\$5.9	\$3.1	Mandated road relocations, NERC reliability and net metering over target, (+\$2.6M).
2. New Connect	\$22.6	\$19.8	Residential and commercial new revenue connection over target, (+\$2.4M).
3. System Reinforcement	\$6.0	\$6.9	Substation reinforcement under target, (-\$1.1M).
4. Replacement	\$15.4	\$20.1	Replacements for vehicles (transport), microwave/fiber communications, overhead distribution poles, substation transformers and facilities under target, (-\$4.0M).
5. Upgrade & Modernize	\$2.7	\$1.4	Functional upgrade reliability over target, (+\$0.9M).
Total	\$52.6	\$51.2	

Utah Distribution & General Plant Capital Spend - 2016 Cumulative
(\$1,000)



Utah Distribution & General Plant Capital Spend - 2016 Monthly
(\$1,000)

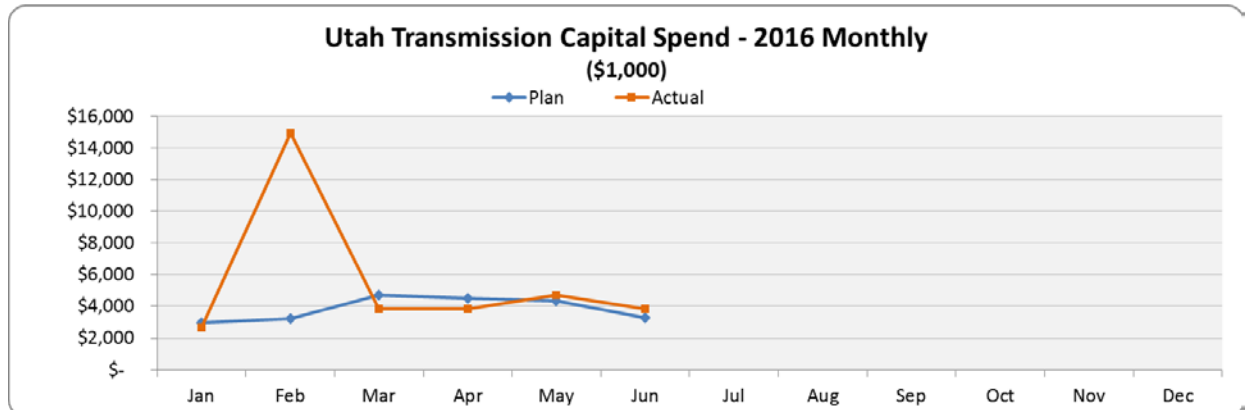
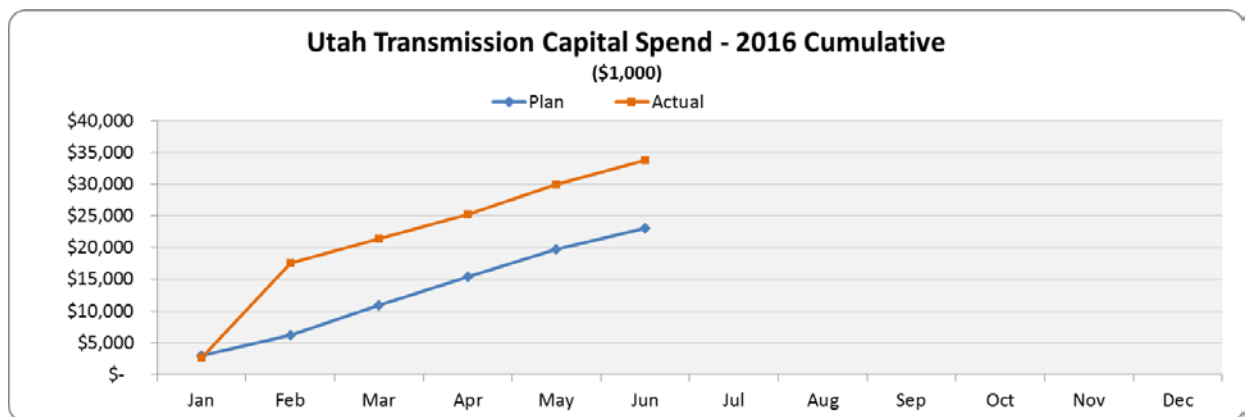


* Actual costs shown are expenditure values, not plant placed in service (PPIS) values. Actual expenditures are not directly tied to PPIS values.

4.2 Capital Spending – Transmission/Interconnections

January – June 2016

Investment	Actuals (\$M)	Target (\$M)	Significant Variances
1. Mandated	\$1.6	\$1.6	
2. New Connect	\$0.1	\$0.8	Industrial new revenue connection under target, (-\$0.7M).
3. Local Transmission System Reinforcements	\$8.0	\$7.7	
**4. Main Grid Reinforcements / Interconnections	\$6.6	\$5.7	Pinto 3rd Ph Shifting Transformer (+\$1.1M), Purgatory Flat New 138kV (+\$1.0M) and Carbon Plant Replacement (\$0.9M) over target; Holden Irrigation-Fillmore Rebuild (-\$2.3M) under target.
**5. Energy Gateway Transmission	\$11.0	\$1.4	Sigurd Red Butte Crystal 345kV Line (+\$9.7M) over target -- (Note: \$9.8M posted in February for a settlement with the construction contractor for current disputed and outstanding changes in work; this impact had previously been forecasted for 2017 due to concerns over finalizing a settlement in 2016).
6. Replacement	\$6.1	\$5.7	Replacements for substation switchgear/breakers/reclosers over target, (+\$0.7M).
7. Upgrade & Modernize	\$0.4	\$0.3	
Total	\$33.8	\$23.0	



* Actual costs shown are expenditure values, not plant placed in service (PPIS) values. Actual expenditures are not directly tied to PPIS values. ** Main Grid Reinforcement/Interconnections and Energy Gateway Transmission values include a small amount of distribution and general plant/communications \$.

4.3 New Connects

	2015	2016											
	Jan - Dec 2015	Jan	Feb	Mar	Q1 Total	Apr	May	Jun	Q2 Total	Jan - Jun 2016	Q3 Total	Q4 Total	YEAR TO DATE
Residential													
UT South	848	37	27	54	118	73	40	43	156	274			274
UT North/Metro	4,354	299	255	293	847	225	212	175	612	1,459			1,459
UT Central	9,154	615	703	559	1,877	587	412	488	1,487	3,364			3,364
Total Residential	14,356	951	985	906	2,842	885	664	706	2,255	5,097			5,097
Commercial													
UT South	236	10	13	12	35	11	22	16	49	84			84
UT North/Metro	680	40	48	34	122	39	40	45	124	246			246
UT Central	794	55	54	57	166	70	67	63	200	366			366
Total Commercial	1,710	105	115	103	323	120	129	124	373	696			696
Industrial													
UT South	4	0	0	0	0	0	0	1	1	1			1
UT North/Metro	5	0	0	1	1	0	0	0	0	1			1
UT Central	2	0	0	1	1	1	0	0	1	2			2
Total Industrial	11	0	0	2	2	1	0	1	2	4			4
Irrigation													
UT South	40	1	3	4	8	9	11	5	25	33			33
UT North/Metro	9	0	1	1	2	0	0	2	2	4			4
UT Central	16	0	0	1	1	3	1	0	4	5			5
Total Irrigation	65	1	4	6	11	12	12	7	31	42			42
Total New Connects													
UT South	1,128	48	43	70	161	93	73	65	231	392			392
UT North/Metro	5,048	339	304	329	972	264	252	222	738	1,710			1,710
UT Central	9,966	670	757	618	2,045	661	480	551	1,692	3,737			3,737
TOTAL New Connects	16,142	1,057	1,104	1,017	3,178	1,018	805	838	2,661	5,839			5,839

Utah South region includes Moab, Price, Cedar City and Richfield

Utah North/Metro region includes SLC Metro, Ogden and Layton

Utah Central region included American Fork, Vernal, Toole, Jordan Valley and Park City

Region areas a subject to change for operational purposes and may differ from historical reporting

Laketown and Smithfield new connects are excluded, as a result of an old coding system that places them under ID/ WY WEST and not Utah.

The Town of Eagle Mountain was integrated into the company network in the American Fork district in Feb/Mar 2015. To achieve this changeover, around 6,500 homes and businesses were added as new connects. These connections are removed from the report as not to affect the accurate representation of new connects and the historical volume trends of newly connected customers.

New connects report reflects the volume of all new connections in the system in the reporting period, which does not include temporary connections, that are subsequently removed in the future periods; it is not necessarily an auditable count of new permanent connection for the reporting period.

UTAH

January 1 – June 30, 2016

5 VEGETATION MANAGEMENT

5.1 Production

UTAH
Tree Program Reporting
 January 1, 2016 through June 30, 2016
Distribution

	Total	Calendar Year Reporting				Cycle Reporting			
	3 Year Program/ Total Line Miles	1/1/2016- 6/30/2016 Miles Planned	1/1/2016- 6/30/2016 Actual Miles	01/01/2016- 6/30/2016 Ahead/ Behind	1/1/2016- 6/30/2016 Ahead/ Behind	1/1/2014- 12/31/2016 Miles Planned	1/1/2014- 12/31/2016 Actual Miles	01/01/2014- 12/31/2016 Ahead/ Behind	1/1/2014- 12/31/2016 % Ahead/ Behind
	column a	column b	column c	column d	column e	column f	column g	column h	column i
UTAH	11,009	1,835	1,508	-327	82.2%	8,537	9,080	543	106.4%
AMERICAN FORK	824	137	90	-47	65.7%	639	559	-80	87.5%
CEDAR CITY	1,373	229	185	-44	80.8%	1,065	1,006	-59	94.5%
JORDAN VALLEY	769	128	37	-91	28.9%	596	588	-8	98.7%
LAYTON	284	47	49	2	104.3%	220	267	47	121.4%
MOAB	976	163	82	-81	50.3%	757	919	162	121.4%
OGDEN	885	148	122	-26	82.4%	686	741	55	108.0%
PARK CITY	538	90	115	25	127.8%	417	497	80	119.2%
PRICE	589	98	80	-18	81.6%	457	570	113	124.7%
RICHFIELD	1,340	223	204	-19	91.5%	1,039	1,019	-20	98.1%
SL METRO	1,206	201	180	-21	89.6%	935	1,048	113	112.1%
SMITHFIELD	762	127	112	-15	88.2%	591	574	-17	97.1%
TOOELE	481	80	136	56	170.0%	373	376	3	100.8%
TREMONTON	732	122	116	-6	95.1%	568	747	179	131.5%
VERNAL	250	42	0	-42	0.0%	194	169	-25	87.1%

Distribution

Distribution cycle \$/tree:	\$96.99
Distribution cycle \$/mile:	\$4,143
Distribution cycle removal %	19.32%

Transmission

Total Line Miles	Line Miles Scheduled	Line Miles Worked	Miles Ahead/Behind Schedule	Miles on Schedule	% of miles on/behind Schedule
6,629	392	390	-2	6,627	1

Transmission \$/mile:	\$4,370
-----------------------	---------

Current distribution cycle began January 1, 2014 and extends until December 31, 2016.

Notes:

- Column a: Total overhead distribution pole miles by district
- Column b: Total overhead distribution pole miles planned for the period January 1, 2016 through June 30, 2016
- Column c: Actual overhead distribution pole miles worked during the period January, 2016 through June 30, 2016
- Column d: Miles ahead or behind for the period January 1, 2016 through June 30, 2016 (column c-column b)
- Column e: Percent of actual compared to planned for the period January 1, 2016 through June 30, 2016 ((column c÷b)×100)
- Column f: Total overhead distribution pole miles planned for the period January 1, 2014 through December 31, 2016
- Column g: Actual overhead distribution pole miles worked during the period January 1 2014 through December 31, 2016
- Column h: Miles ahead or behind for the period January 1, 2014 through December 31, 2016 (column g-column f)
- Column i: Percent of actual compared to planned for the period January 1, 2014 through December 31, 2016 ((column g÷f)×100). Max = 100%

5.2 Budget

UTAH Tree Program Reporting

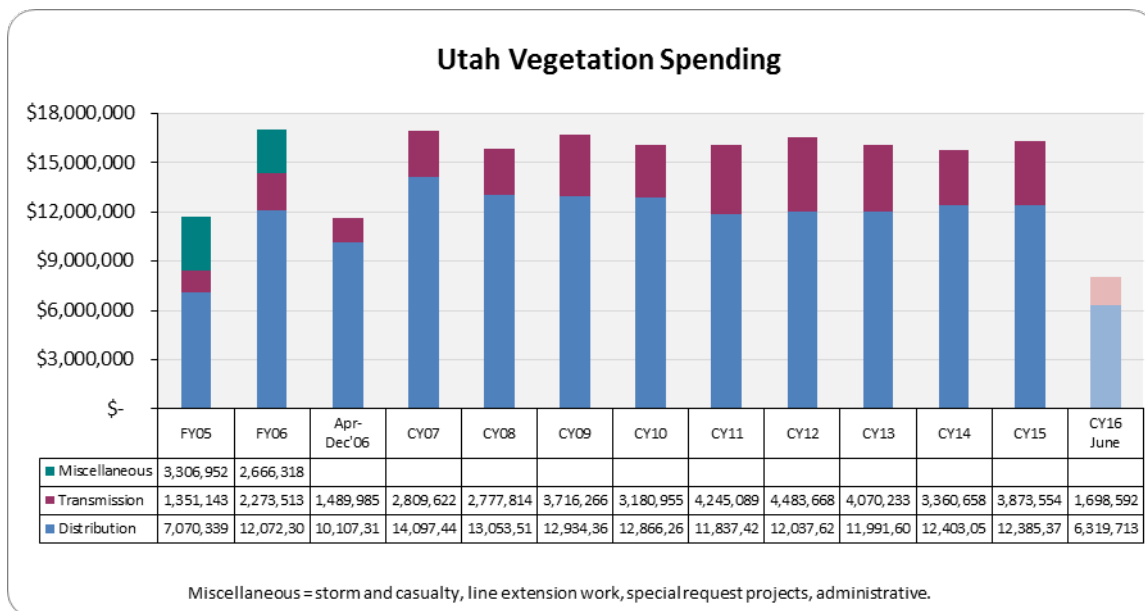
	CY2017	CY2018	CY2019
Distribution	\$11,400,000	\$11,400,000	\$11,400,000
Transmission	\$3,760,000	\$3,760,000	\$3,760,000
Total Tree Budget	\$15,160,000	\$15,160,000	\$15,160,000

Calendar year 2016	Distribution			Transmission		
	Actuals	Budget	Variance	Actuals	Budget	Variance
Jan	\$910,692	\$944,470	-\$33,778	\$263,069	\$309,714	-\$46,645
Feb	\$1,100,162	\$944,470	\$155,692	\$224,075	\$309,714	-\$85,639
Mar	\$1,226,616	\$1,086,074	\$140,542	\$310,467	\$356,113	-\$45,646
Apr	\$1,115,086	\$991,671	\$123,415	\$281,641	\$325,180	-\$43,539
May	\$972,138	\$991,671	-\$19,533	\$312,566	\$325,180	-\$12,614
Jun	\$995,019	\$1,038,873	-\$43,854	\$306,774	\$340,646	-\$33,872
Jul			\$0			\$0
Aug			\$0			\$0
Sep			\$0			\$0
Oct			\$0			\$0
Nov			\$0			\$0
Dec			\$0			\$0
Total	\$6,319,713	\$5,997,229	\$322,484	\$1,698,592	\$1,966,547	-\$267,955

Average # Tree Crews on Property (YTD)

66

5.2.1 Vegetation Historical Spending



6 Appendix

6.1 Reliability Definitions

Interruption Types

Below are the definitions for interruption events. For further details, refer to IEEE 1366-2003¹² Standard for Reliability Indices.

Sustained Outage

A sustained outage is defined as an outage of greater than 5 minutes in duration.

Momentary Outage Event

A momentary outage is defined as an outage equal to or less than 5 minutes in duration. Rocky Mountain Power has historically captured this data using substation breaker fault counts, but where SCADA (Supervisory Control and Data Acquisition Systems) exist, uses this data to calculate consistent with IEEE 1366-2003.

Reliability Indices

SAIDI

SAIDI (system average interruption duration index) is an industry-defined term to define the average duration summed for all sustained outages a customer experiences in a given period. It is calculated by summing all customer minutes lost for sustained outages (those exceeding 5 minutes) and dividing by all customers served within the study area. When not explicitly stated otherwise, this value can be assumed to be for a one-year period.

Daily SAIDI

In order to evaluate trends during a year and to establish Major Event Thresholds, a daily SAIDI value is often used as a measure. This concept was introduced in IEEE Standard 1366-2003. This is the day's total customer minutes out of service divided by the static customer count for the year. It is the total average outage duration customers experienced for that given day. When these daily values are accumulated through the year, it yields the year's SAIDI results.

SAIFI

SAIFI (system average interruption frequency index) is an industry-defined term that attempts to identify the frequency of all sustained outages that the average customer experiences during a given time-frame. It is calculated by summing all customer interruptions for sustained outages (those exceeding 5 minutes in duration) and dividing by all customers served within the study area.

CAIDI

CAIDI (customer average interruption duration index) is an industry-defined term that is the result of dividing the duration of the average customer's sustained outages by the frequency of outages for that average customer. While the Company did not originally specify this metric under the umbrella of the Performance Standards Program within the context of the Service Standards Commitments, it has since been determined to be valuable for reporting purposes. It is derived by dividing PS1 (SAIDI) by PS2 (SAIFI).

¹² IEEE 1366-2003 was adopted by the IEEE on December 23, 2003. It was subsequently modified in IEEE 1366-2012, but all definitions used in this document are consistent between these two versions. The definitions and methodology detailed therein are now industry standards. Later, in Docket No. 04-035-T13 the Utah Public Utilities Commission adopted the standard methodology for determining major event threshold.

MAIFI_E

MAIFI_E (momentary average interruption event frequency index) is an industry-defined term that attempts to identify the frequency of all momentary interruption events that the average customer experiences during a given time-frame. It is calculated by counting all momentary operations which occur within a 5 minute time period, as long as the sequence did not result in a device experiencing a sustained interruption. This series of actions typically occurs when the system is trying to re-establish energy flow after a faulted condition, and is associated with circuit breakers or other automatic reclosing devices.

Lockout

Lockout is the state of device when it attempts to re-establish energy flow after a faulted condition but is unable to do so; it systematically opens to de-energize the facilities downstream of the device then recloses until a lockout operation occurs. The device then requires manual intervention to re-energize downstream facilities. This is generally associated with substation circuit breakers and is one of the variables used in the Company's calculation of blended metrics.

CEMI

CEMI is an acronym for Customers Experiencing Multiple (Momentary Event and Sustained) Interruptions. This index depicts repetition of outages across the period being reported and can be an indicator of recent portions of the system that have experienced reliability challenges.

CPI99

CPI99 is an acronym for Circuit Performance Indicator, which uses key reliability metrics of the circuit to identify underperforming circuits. It excludes Major Event and Loss of Supply or Transmission outages. The variables and equation for calculating CPI are:

$$\text{CPI} = \text{Index} * ((\text{SAIDI} * \text{WF} * \text{NF}) + (\text{SAIFI} * \text{WF} * \text{NF}) + (\text{MAIFI}_E * \text{WF} * \text{NF}) + (\text{Lockouts} * \text{WF} * \text{NF}))$$

Index: 10.645

SAIDI: Weighting Factor 0.30, Normalizing Factor 0.029

SAIFI: Weighting Factor 0.30, Normalizing Factor 2.439

MAIFI_E: Weighting Factor 0.20, Normalizing Factor 0.70

Lockouts: Weighting Factor 0.20, Normalizing Factor 2.00

Therefore, $10.645 * ((3\text{-year SAIDI} * 0.30 * 0.029) + (3\text{-year SAIFI} * 0.30 * 2.439) + (3\text{-year MAIFI}_E * 0.20 * 0.70) + (3\text{-year breaker lockouts} * 0.20 * 2.00)) = \text{CPI Score}$

CPI05

CPI05 is an acronym for Circuit Performance Indicator, which uses key reliability metrics of the circuit to identify underperforming circuits. Unlike CPI99, it includes Major Event and Loss of Supply or Transmission outages. The calculation of CPI05 uses the same weighting and normalizing factors as CPI99.

Performance Types

Rocky Mountain Power recognizes several categories of performance; major events and underlying performance. Underlying performance days may be significant event days. Outages recorded during any day may be classified as "controllable" events.

Major Events

A Major Event (ME) is defined as a 24-hour period where SAIDI exceeds a statistically derived threshold value (Reliability Standard IEEE 1366-2012) based on the 2.5 beta methodology. The values used for the reporting period and the prospective period are shown below.

Significant Events

The Company has evaluated its year-to-year performance and as part of an industry weather normalization task force, sponsored by the IEEE Distribution Reliability Working Group, determined that when the Company recorded a day in excess of 1.75 beta (or 1.75 times the natural log standard deviation beyond the natural log daily average for the day's SAIDI) that generally these days' events are generally associated with weather events and serve as an indicator of a day which accrues substantial reliability metrics, adding to the cumulative reliability results for the period. As a result, the Company individually identifies these days so that year-on-year comparisons are informed by the quantity and their combined impact to the reporting period results.

Underlying Events

Within the industry, there has been a great need to develop methodologies to evaluate year-on-year performance. This has led to the development of methods for segregating outlier days, via the approaches described above. Those days which fall below the statistically derived threshold represent "underlying" performance, and are valid. If any changes have occurred in outage reporting processes, those impacts need to be considered when making comparisons. Underlying events include all sustained interruptions, whether of a controllable or non-controllable cause, exclusive of major events, prearranged and customer requested interruptions.

Controllable Distribution (CD) Events

In 2008, the Company identified the benefit of separating its tracking of outage causes into those that can be classified as "controllable" (and thereby reduced through preventive work) from those that are "non-controllable" (and thus cannot be mitigated through engineering programs); they will generally be referred to in subsequent text as controllable distribution (CD). For example, outages caused by deteriorated equipment or animal interference are classified as controllable distribution since the Company can take preventive measures with a high probability to avoid future recurrences; while vehicle interference or weather events are largely out of the Company's control and generally not avoidable through engineering programs. (It should be noted that Controllable Events is a subset of Underlying Events. The *Cause Code Analysis* section of this report contains two tables for Controllable Distribution and Non-controllable Distribution, which list the Company's performance by direct cause under each classification.) At the time that the Company established the determination of controllable and non-controllable distribution it undertook significant root cause analysis of each cause type and its proper categorization (either controllable or non-controllable). Thus, when outages are completed and evaluated, and if the outage cause designation is improperly identified as non-controllable, then it would result in correction to the outage's cause to preserve the association between controllable and non-controllable based on the outage cause code. The company distinguishes the performance delivered using this differentiation for comparing year to date performance against underlying and total performance metrics.