



Circuit Reliability Review

Westminster

January 2017

Providing Safe, Reliable, and Affordable Power

Southern California Edison is modernizing the power grid to meet the changing needs and expectations of our customers and to help California achieve its clean energy goals.

We are investing more than \$12 billion into our power grid between 2015 – 2017 with the goal of increasing power reliability through significant upgrades. These investments include:

- Updating thousands of transmission and distribution poles
- Replacing hundreds of miles of underground cables
- Replacing hundreds of underground structures such as vaults and manholes
- Upgrading critical distribution equipment; capacitor banks, switches, and circuit breakers
- Building new distribution circuits to serve electrical demands in our communities
- Inspecting and replacing overhead conductor and equipment to improve public safety

Our investments in local communities will help ensure that customers receive safe, reliable, and affordable electricity now and in the future.

Understanding Your Reliability Report

As your electric utility, we want you to always have power when you need it. To get there, we constantly track and monitor electric outages across our service territory, and we measure our “system reliability” from this data.

The two metrics we rely on are common in the electric utility industry: the System Average Interruption Duration Index (SAIDI) and the System Average Interruption Frequency Index (SAIFI). Both are described in more detail on the next page.

Replacing and upgrading our infrastructure will help SCE maintain or improve SAIDI and SAIFI measurements.

This report provides historical reliability data for the circuits that serve your jurisdiction and our proposed infrastructure upgrades for the current year.

To view other reliability reports, visit [sce.com>Outage Center>Maintaining Reliable Service](https://sce.com/Outage-Center/Maintaining-Reliable-Service)

Reliability Metrics

MOMENTARY OUTAGES:

OUTAGES LASTING 5 MINUTES OR LESS

MAIFI:

- The number of times the average customer is interrupted by Momentary outages each year.

SUSTAINED OUTAGES:

OUTAGES LASTING LONGER THAN 5 MINUTES

SAIFI:

- The number of times the average customer is interrupted by Sustained outages each year.

SAIDI:

- The cumulative amount of time the average customer is interrupted by Sustained outages each year.

Cities in the Huntington Beach District

Costa Mesa

Fountain Valley

Huntington Beach

Newport Beach

Westminster

Reliability by SCE District (No Exclusions)

District Name	2012				2013				2014				2015				2016			
	District SAIDI	SAIDI RANKING	District SAIFI	SAIFI Ranking	District SAIDI	SAIDI RANKING	District SAIFI	SAIFI Ranking	District SAIDI	SAIDI RANKING	District SAIFI	SAIFI Ranking	District SAIDI	SAIDI RANKING	District SAIFI	SAIFI Ranking	District SAIDI	SAIDI RANKING	District SAIFI	SAIFI Ranking
ANTELOPE VALLEY	78.60	28	0.56	31	94.42	22	0.62	31	51.05	35	0.59	34	104.34	22	0.68	30	107.67	24	0.87	29
ARROWHEAD	129.58	13	1.31	7	180.59	7	1.39	8	193.25	5	1.59	5	362.61	4	3.97	1	659.46	3	2.85	5
BARSTOW	184.80	7	1.15	12	204.33	6	1.40	7	201.53	4	1.34	10	187.11	8	1.17	12	134.83	18	1.35	9
BIG CREEK	1184.25	1	4.52	1	176.51	8	3.08	1	920.25	1	1.34	11	422.77	2	3.42	2	1062.01	2	4.99	1
BISHOP	463.09	2	1.25	9	104.44	17	0.51	35	118.79	17	0.59	35	298.11	6	2.22	4	168.59	8	1.22	14
BLYTHE	225.88	6	1.53	3	483.13	1	1.38	9	707.54	2	2.42	2	427.00	1	1.52	7	396.38	5	2.71	6
CATALINA	78.46	30	0.72	29	105.94	16	2.97	2	97.02	24	4.17	1	42.56	35	2.25	3	65.01	35	3.66	3
COVINA	108.73	19	0.92	19	100.51	19	0.86	20	91.60	27	0.87	22	100.08	23	0.81	25	112.13	22	0.97	24
DOMINGUEZ HILLS	117.22	18	0.82	24	89.17	26	0.80	21	82.30	29	0.71	28	130.63	15	0.97	17	146.38	12	1.11	17
FOOTHILL	91.69	25	0.90	20	85.80	27	0.79	24	93.35	25	0.93	21	109.64	20	0.95	20	142.81	14	1.03	21
FULLERTON	68.99	33	0.42	35	90.57	25	0.79	22	82.23	30	0.72	27	76.59	29	0.67	31	92.72	30	0.76	34
HUNTINGTON BEACH	95.78	23	0.89	21	66.51	32	0.68	29	79.61	31	0.78	25	98.32	25	0.95	19	128.02	20	1.26	12
KERNVILLE	226.76	5	1.31	6	232.18	4	1.96	3	178.69	8	1.99	3	286.38	7	0.96	18	2421.32	1	3.67	2
LONG BEACH	75.83	31	0.55	33	75.11	30	0.70	28	66.33	34	0.61	32	164.46	9	0.89	23	135.16	17	0.86	31
MENIFEE	99.32	22	0.84	23	107.39	15	1.26	10	156.68	11	1.32	12	111.46	19	0.98	16	156.75	9	1.31	10
MONROVIA	108.11	20	1.13	15	99.12	20	1.02	16	133.32	14	1.16	16	96.68	26	0.88	24	116.57	21	0.84	32
MONTEBELLO	131.06	12	1.13	14	118.08	13	1.17	12	158.34	10	1.16	15	150.28	12	1.18	11	133.52	19	1.17	15
ONTARIO	93.09	24	0.87	22	77.39	29	0.79	23	97.91	23	1.00	19	94.04	27	0.74	27	105.07	27	0.93	27
PALM SPRINGS	175.92	8	1.27	8	112.80	14	0.77	25	107.04	20	0.71	29	99.54	24	0.80	26	107.58	25	1.07	19
REDLANDS	120.13	16	1.11	16	96.48	21	1.04	15	154.25	12	1.04	18	124.52	17	1.01	14	137.11	16	0.98	23
RIDGECREST	229.65	4	1.44	4	161.95	9	1.12	13	176.84	9	1.57	6	148.90	13	1.01	15	254.31	6	1.05	20
SADDLEBACK	83.01	27	0.73	27	70.69	31	0.53	34	99.07	22	0.74	26	46.03	34	0.39	35	65.99	34	0.65	35
SAN JOAQUIN	135.90	10	1.04	18	244.44	2	1.45	6	138.25	13	1.17	14	127.50	16	1.05	13	108.44	23	1.09	18
SANTA ANA	78.60	29	0.55	32	93.35	24	0.74	26	91.68	26	0.84	23	67.46	32	0.71	29	97.27	29	1.00	22
SANTA BARBARA	153.81	9	1.15	13	82.00	28	0.70	27	183.78	7	1.38	9	152.37	11	1.52	6	156.66	10	1.41	8
SANTA MONICA	101.69	21	0.79	25	122.78	12	1.00	17	110.76	19	0.99	20	75.41	30	0.62	32	91.08	31	0.95	26
SOUTH BAY	122.68	15	1.17	10	142.15	10	1.49	5	125.28	16	1.39	8	164.07	10	1.31	8	183.90	7	1.88	7
TEHACHAPI	117.96	17	1.43	5	232.67	3	1.12	14	130.70	15	1.29	13	298.96	5	1.21	9	97.29	28	1.13	16
THOUSAND OAKS	127.73	14	1.05	17	93.86	23	0.91	18	104.37	21	1.10	17	106.59	21	0.92	21	143.78	13	1.31	11
VALENCIA	62.01	35	0.46	34	51.04	34	0.53	33	79.23	32	0.61	33	72.27	31	0.61	33	105.09	26	0.97	25
VENTURA	134.81	11	1.15	11	100.52	18	1.21	11	183.79	6	1.65	4	148.85	14	1.19	10	150.41	11	1.24	13
VICTORVILLE	67.70	34	0.66	30	61.33	33	0.63	30	68.85	33	0.63	31	87.03	28	0.91	22	79.35	33	0.92	28
WHITTIER	72.60	32	0.74	26	135.04	11	0.86	19	87.60	28	0.70	30	114.52	18	0.73	28	137.34	15	0.81	33
WILDOMAR	88.54	26	0.72	28	40.51	35	0.56	32	118.49	18	0.81	24	52.70	33	0.60	34	84.01	32	0.87	30
YUCCA VALLEY	319.82	3	3.41	2	216.97	5	1.50	4	304.25	3	1.49	7	389.08	3	1.80	5	463.68	4	3.39	4
SCE SystemWide	108.13		0.89		102.61		0.91		112.00		0.96		114.83		0.92		134.48		1.10	

Exclusions are days which utilities are allowed to remove from their metrics because the outages on those days were caused by a severe acts of nature.

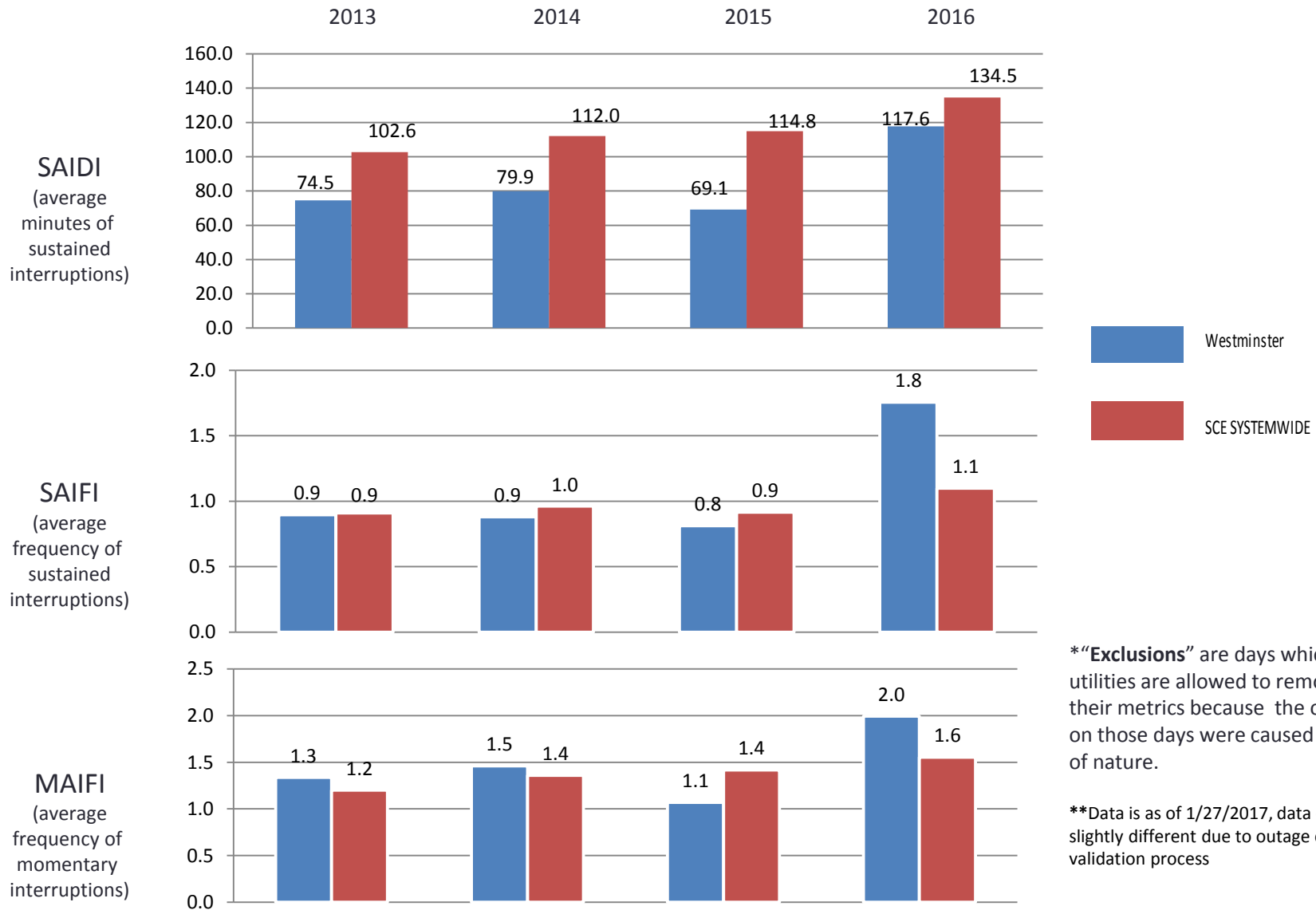
**In the columns showing "Rank," lower numbers indicate poorer performance.

Overview of Westminster

There are 34 circuits that serve Westminster

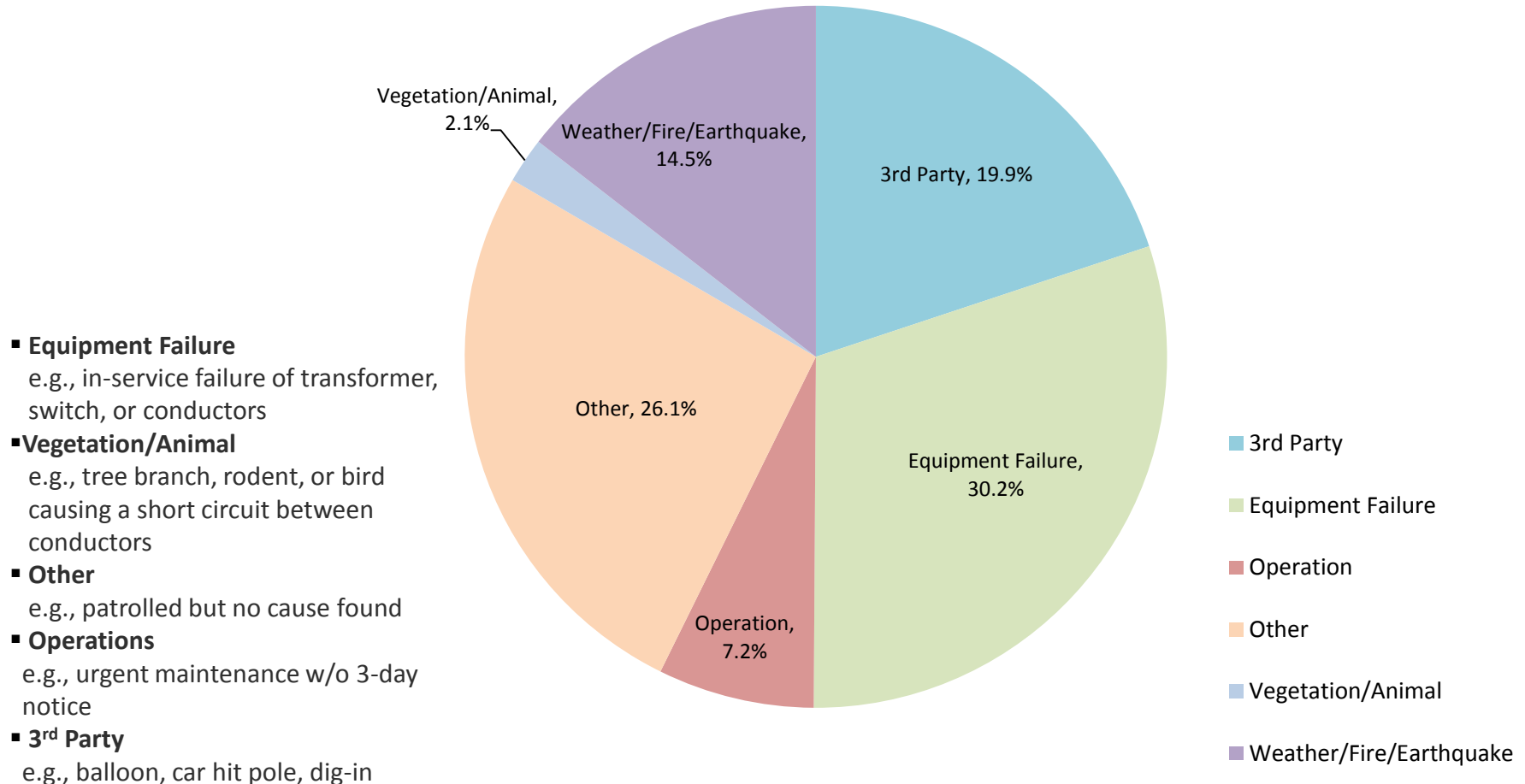
Circuit Type	Sum of Customers	Circuit Type	Sum of Customers	Circuit Type	Sum of Customers	Circuit Type	Sum of Customers
APACHE(12KV)	556	WATERFIELD(12KV)	2,756				
BISHOP(12KV)	1,293	WICHITA(12KV)	1,392				
BLACKHAWK(12KV)	2,741	WINTERSBURG(12KV)	2,783				
BUSHARD(12KV)	2,702	YOUNGER(12KV)	3,943				
CAVALIERS(12KV)	7						
CELTICS(12KV)	2,479						
CHEROKEE(12KV)	3,854						
CHEYENNE(12KV)	887						
CHIPPEWA(12KV)	1,730						
CHOCTAW(12KV)	43						
COMANCHE(12KV)	2,290						
DOCTRINE(4.16KV)	371						
FLINT(12KV)	1,973						
GUAM(12KV)	3,324						
HEIL(12KV)	1,600						
HIRSCH(12KV)	2,988						
HOPI(12KV)	144						
JAZZ(12KV)	1,650						
JEROME(12KV)	1,740						
JOPLIN(12KV)	2,824						
LAKERS(12KV)	1,682						
MCKEEVER(12KV)	3,488						
MIDWAY(4.16KV)	441						
PAUL(12KV)	1,636						
SIOUX(12KV)	1,688						
SONICS(12KV)	3,608						
TITTLE(12KV)	3,074						
TULSA(12KV)	2,290						
VAN BROCKLIN(12KV)	1,308						
WARRIORS(12KV)	3,675						
Grand Total	68,960						

Reliability History of Circuits Serving Westminster (No Exclusions)



Causes of Repair Outages in Westminster Circuits 2016 YTD

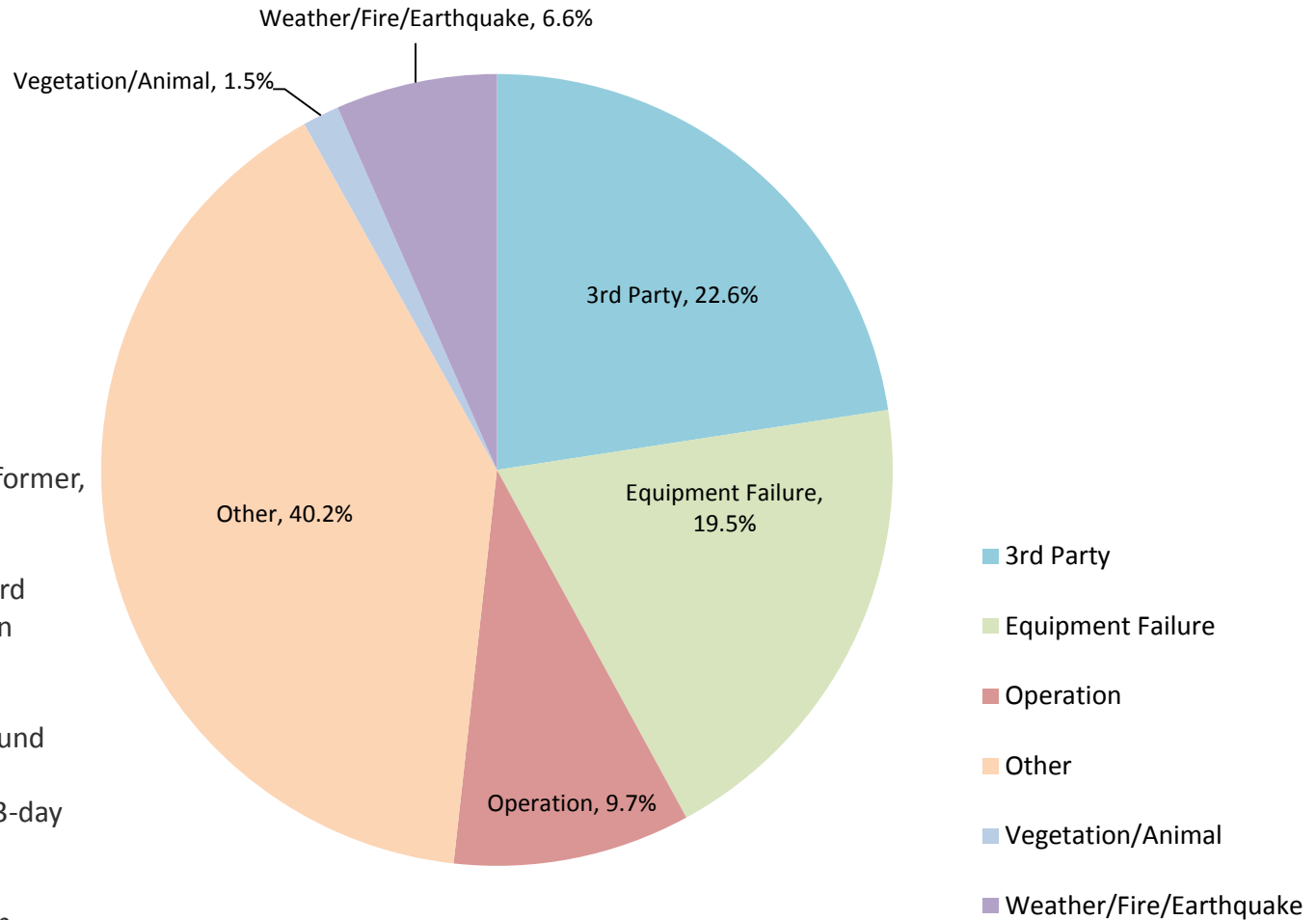
Contributions to SAIDI by Outage Cause



SAIDI = the cumulative amount of time the average customer is interrupted by “sustained” outages each year.

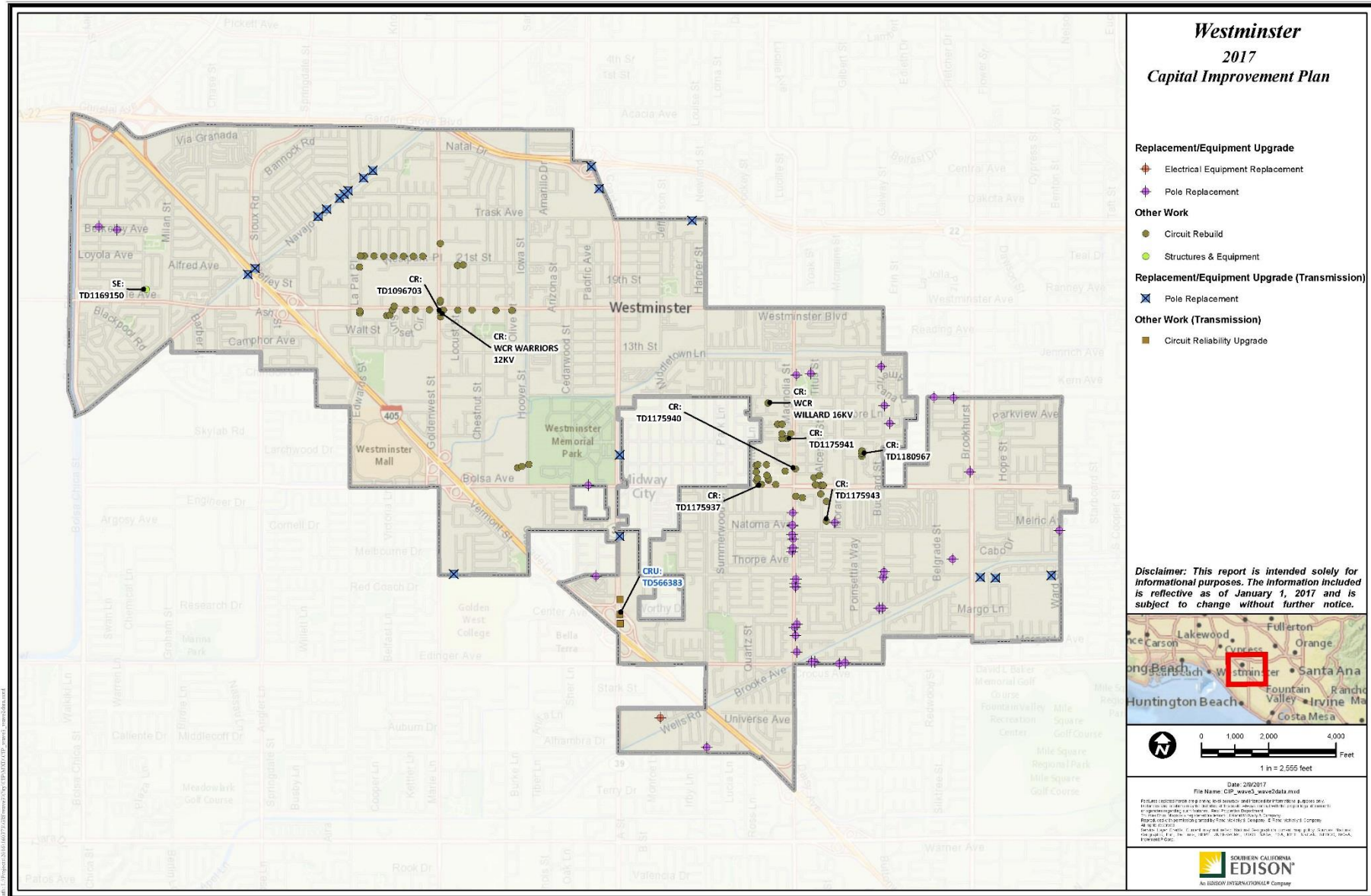
Causes of Repair Outages in Westminster Circuits 2016 YTD

Contributions to SAIFI by Outage Cause



SAIFI = the number of times the average customer is interrupted by “sustained” outages each year.





Back-up Slides

Reliability Histories of Circuits Serving Westminster

Updated through Year-End 2016

Average Reliability of 34 Circuits Serving Westminster

	2013			2014			2015			1st Qtr 2016			2nd Qtr 2016			3rd Qtr 2016			4th Qtr 2016			2016		
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI
Westminster	74.5	0.9	1.3	79.9	0.9	1.5	69.1	0.8	1.1	56.2	0.9	0.9	21.0	0.3	0.6	21.6	0.2	0.3	18.8	0.3	0.3	117.6	1.8	2.0
3rd Party	38%	50%	63%	10%	16%	37%	34%	35%	52%	4%	4%	5%	39%	68%	43%	57%	65%	34%	3%	7%	31%	20%	23%	23%
Equipment Failure	37%	29%	9%	64%	47%	27%	43%	25%	11%	20%	10%	10%	25%	13%	4%	41%	34%	16%	54%	46%	33%	30%	19%	12%
Operation	10%	5%	8%	8%	11%	9%	16%	19%	21%	6%	11%	35%	19%	4%	0%	1%	1%	0%	3%	16%	0%	7%	10%	16%
Other	0%	0%	8%	1%	2%	8%	5%	15%	11%	42%	65%	33%	12%	13%	7%	0%	0%	50%	24%	18%	37%	26%	40%	29%
Vegetation/Animal	2%	11%	8%	9%	14%	12%	2%	4%	1%	2%	2%	0%	5%	1%	45%	0%	0%	0%	0%	0%	0%	2%	1%	13%
Weather/Fire/Earthquake	13%	6%	4%	7%	10%	7%	0%	2%	4%	25%	8%	16%	0%	0%	0%	0%	0%	0%	16%	13%	0%	15%	7%	7%
SCE Systemwide	102.6	0.9	1.2	112.0	1.0	1.4	114.8	0.9	1.4	40.5	0.3	0.4	34.8	0.3	0.4	29.4	0.2	0.3	29.8	0.3	0.4	134.5	1.1	1.6

Notes:

No outages are excluded from the metrics.

Outage Causes:

Other: e.g., patrolled but no cause could be found

Operations: e.g., urgent maintenance w/o 3-day notice to customers

3rd Party: e.g., balloons, car hit pole, dig-in

Vegetation/Animal: e.g., tree branch, rodent, or bird causing short circuit across conductors

SAIDI (minutes) = the cumulative amount of time the average customer is interrupted by "sustained" (longer than 5 minutes) outages.

SAIFI (interruptions) = the number of times the average customer is interrupted by "sustained" outages.

MAIFI (interruptions) = the number of times the average customer is interrupted by "momentary" (lasting 5 minutes or less) outages.

Reliability Histories for Individual Circuits Serving Westminster

	2013			2014			2015			1st Qtr 2016			2nd Qtr 2016			3rd Qtr 2016			4th Qtr 2016			2016		
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI
APACHE(12KV) - Customers: 556	5.4	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	49.9	1.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	49.9	1.0	2.0
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	50%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	50%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
BISHOP(12KV) - Customers: 1,293	0.0	0.0	0.0	54.1	1.0	0.0	38.2	1.0	0.0	29.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.1	0.0	0.0
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	0%	0%	0%	100%	100%	0%	40%	4%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%
Operation	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	60%	96%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
BLACKHAWK(12KV) - Customers: 2,741	21.6	0.6	1.1	54.7	1.0	0.0	34.9	0.1	0.0	62.9	1.0	1.0	5.0	0.1	1.0	6.2	0.0	0.0	0.0	0.0	0.0	74.0	1.1	2.0
3rd Party	45%	30%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	44%	11%	0%	100%	100%	0%	19%	13%	0%	3%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	11%	3%	0%
Operation	11%	59%	0%	0%	0%	0%	81%	87%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	97%	100%	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	89%	97%	50%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	50%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
BUSHARD(12KV) - Customers: 2,702	7.0	0.0	1.0	122.7	1.0	0.1	154.1	2.9	5.1	40.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	72.1	1.0	1.0	112.2	2.0	2.0
3rd Party	0%	0%	100%	0%	0%	0%	15%	34%	39%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	36%	49%	0%
Equipment Failure	0%	0%	0%	98%	98%	100%	70%	32%	41%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	2%	100%	0%	1%	50%
Operation	100%	100%	0%	2%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	5%	2%	0%	3%	1%	0%
Other	0%	0%	0%	0%	0%	0%	15%	34%	20%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	50%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	95%	96%	0%	61%	49%	0%

Reliability Histories for Individual Circuits Serving Westminster

	2013			2014			2015			1st Qtr 2016			2nd Qtr 2016			3rd Qtr 2016			4th Qtr 2016			2016		
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI
CAVALIERS(12KV) - Customers: 7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	1.0	0.0
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
CELTICS(12KV) - Customers: 2,479	16.9	1.0	2.0	103.7	2.3	3.0	0.0	0.0	0.0	13.9	0.9	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.4	0.0	0.0	15.4	1.0	1.0
3rd Party	97%	99%	100%	19%	4%	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
Equipment Failure	0%	0%	0%	71%	51%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	3%	1%	0%	10%	45%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	100%	100%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
CHEROKEE(12KV) - Customers: 3,854	39.5	1.1	1.0	69.0	1.1	0.0	45.6	0.1	0.0	76.5	1.1	2.1	46.0	0.1	1.0	97.5	1.0	0.0	42.5	1.0	0.0	262.6	3.3	3.1
3rd Party	0%	0%	100%	70%	93%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	94%	97%	0%	0%	0%	0%	35%	30%	0%
Equipment Failure	62%	4%	0%	27%	5%	0%	80%	39%	0%	9%	2%	0%	0%	0%	0%	5%	2%	0%	86%	97%	0%	18%	32%	0%
Operation	9%	3%	0%	3%	1%	0%	20%	61%	100%	19%	4%	0%	100%	100%	0%	1%	0%	0%	0%	0%	0%	23%	5%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	72%	94%	50%	0%	0%	0%	0%	0%	0%	14%	3%	0%	23%	33%	34%
Vegetation/Animal	26%	91%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	32%
Weather/Fire/Earthquake	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	34%
CHEYENNE(12KV) - Customers: 887	18.6	0.0	0.0	28.6	0.2	0.0	0.0	0.0	0.0	70.5	1.0	1.0	0.0	0.0	1.0	245.8	0.2	0.0	5.7	0.0	0.0	322.1	1.2	2.0
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	100%	100%	0%	93%	90%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	76%	14%	0%
Operation	0%	0%	0%	7%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	2%	2%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	22%	84%	50%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	50%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Reliability Histories for Individual Circuits Serving Westminster

	2013			2014			2015			1st Qtr 2016			2nd Qtr 2016			3rd Qtr 2016			4th Qtr 2016			2016		
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI
CHIPPEWA(12KV) - Customers: 1,730	10.9	0.1	1.0	86.6	1.2	1.0	104.4	1.2	0.0	61.2	1.1	1.1	36.7	1.0	1.9	2.6	0.0	1.0	3.0	0.0	0.0	103.5	2.1	4.0
3rd Party	0%	0%	0%	0%	0%	0%	74%	91%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	100%	100%	0%	5%	2%	0%
Equipment Failure	93%	90%	0%	47%	17%	100%	19%	5%	0%	0%	0%	0%	100%	100%	49%	0%	0%	0%	0%	0%	0%	35%	47%	24%
Operation	7%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	100%	0%	0%	0%	7%	4%	0%	100%	100%	100%	0%	0%	0%	0%	0%	100%	0%	0%	0%	59%	51%	51%
Vegetation/Animal	0%	0%	0%	4%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	51%	0%	0%	0%	0%	0%	0%	0%	0%	25%
Weather/Fire/Earthquake	0%	0%	0%	50%	80%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
CHOCTAW(12KV) - Customers: 43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	234.7	2.7	1.3	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	234.7	2.7	2.3
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	0%	0%	0%	0%	0%	0%	0%	0%	0%	79%	63%	23%	0%	0%	0%	0%	0%	0%	0%	0%	0%	79%	63%	13%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	21%	37%	77%	0%	0%	0%	0%	0%	0%	0%	0%	0%	21%	37%	43%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	43%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
COMANCHE(12KV) - Customers: 2,290	5.6	0.0	0.0	65.6	0.3	2.0	89.9	0.2	0.0	50.1	1.0	2.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	50.1	1.0	4.0
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	25%
Equipment Failure	0%	0%	0%	50%	36%	0%	100%	99%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	100%	100%	0%	50%	64%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	50%	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	50%
Vegetation/Animal	0%	0%	0%	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	25%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
DOCTRINE(4.16KV) - Customers: 371	662.1	1.8	0.0	8.0	0.0	0.0	0.0	0.0	0.0	187.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	187.0	3.0	1.0
3rd Party	4%	56%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	0%	0%	0%	74%	50%	0%	0%	0%	0%	58%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	58%	33%	0%
Operation	96%	44%	0%	26%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	42%	67%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	42%	67%	100%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Reliability Histories for Individual Circuits Serving Westminster

	2013			2014			2015			1st Qtr 2016			2nd Qtr 2016			3rd Qtr 2016			4th Qtr 2016			2016		
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI
FLINT(12KV) - Customers: 1,973	13.2	0.0	1.0	37.9	0.0	2.0	192.8	1.8	0.0	20.0	1.0	0.0	44.1	1.1	1.0	0.0	0.0	0.0	0.0	0.0	1.0	64.1	2.1	2.0
3rd Party	0%	0%	0%	0%	0%	0%	24%	37%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	69%	51%	50%
Equipment Failure	0%	0%	0%	100%	100%	100%	76%	63%	0%	20%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	6%	0%	0%
Operation	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	80%	99%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	25%	48%	50%
Vegetation/Animal	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
GUAM(12KV) - Customers: 3,324	82.1	0.6	0.0	111.1	0.1	2.8	6.2	0.0	0.1	82.3	1.0	2.0	0.4	0.0	1.0	43.9	1.0	2.0	0.0	0.0	0.0	126.6	2.1	5.0
3rd Party	96%	99%	0%	0%	1%	36%	0%	0%	0%	10%	2%	50%	0%	0%	100%	0%	0%	0%	0%	0%	0%	6%	1%	40%
Equipment Failure	4%	1%	0%	96%	95%	64%	51%	7%	0%	26%	2%	0%	0%	0%	0%	100%	100%	49%	0%	0%	0%	51%	51%	19%
Operation	0%	0%	0%	4%	4%	0%	4%	1%	100%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	45%	91%	0%	65%	96%	50%	0%	0%	0%	0%	0%	51%	0%	0%	0%	42%	48%	40%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
HEIL(12KV) - Customers: 1,600	189.4	1.2	1.0	0.0	0.0	0.0	23.2	1.0	0.0	221.1	1.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	221.6	1.1	0.0
3rd Party	94%	96%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	0%	0%	0%	0%	0%	0%	0%	0%	0%	81%	95%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	81%	96%	0%
Operation	6%	4%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	19%	5%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	19%	4%	0%
HIRSCH(12KV) - Customers: 2,988	136.5	2.5	3.4	6.4	0.1	1.7	41.9	0.7	0.0	6.2	0.6	0.4	55.3	0.2	1.0	28.6	0.2	0.0	5.3	0.0	0.0	95.3	1.0	1.5
3rd Party	54%	40%	58%	0%	0%	58%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	68%
Equipment Failure	37%	57%	42%	20%	3%	0%	41%	92%	0%	0%	0%	0%	100%	100%	0%	100%	100%	100%	100%	100%	0%	93%	44%	2%
Operation	9%	3%	0%	80%	97%	42%	59%	8%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	7%	56%	30%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Reliability Histories for Individual Circuits Serving Westminster

	2013			2014			2015			1st Qtr 2016			2nd Qtr 2016			3rd Qtr 2016			4th Qtr 2016			2016		
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI
HOPI(12KV) - Customers: 144	93.6	1.0	1.0	170.1	2.0	1.9	2.4	0.0	0.0	171.3	2.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	171.3	2.0	2.0
3rd Party	0%	0%	0%	2%	0%	48%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	100%	100%	0%	98%	100%	52%	100%	100%	0%	71%	51%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	71%	51%	0%
Operation	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	100%	0%	0%	0%	0%	0%	0%	29%	49%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	29%	49%	49%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	51%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
JAZZ(12KV) - Customers: 1,650	4.6	0.0	3.0	137.2	1.8	1.6	108.4	2.4	1.6	103.7	1.9	0.0	0.8	0.0	0.0	22.8	0.0	0.0	0.0	0.0	0.0	127.3	1.9	0.0
3rd Party	0%	0%	0%	6%	7%	0%	54%	42%	19%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	83%	52%	0%	0%	0%	0%	16%	1%	0%
Operation	100%	100%	100%	0%	1%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	17%	48%	0%	0%	0%	0%	3%	1%	0%
Other	0%	0%	0%	38%	37%	80%	0%	0%	61%	46%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	38%	49%	0%
Vegetation/Animal	0%	0%	0%	56%	55%	20%	46%	57%	19%	54%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	44%	49%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
JEROME(12KV) - Customers: 1,740	55.7	1.1	0.0	344.4	2.0	2.9	68.0	1.1	0.0	19.6	1.2	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	19.6	1.2	0.9
3rd Party	0%	0%	0%	0%	0%	0%	85%	93%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
Equipment Failure	72%	7%	0%	100%	100%	65%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	2%	1%	0%	0%	0%	0%	15%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	35%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%
Vegetation/Animal	26%	93%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
JOPLIN(12KV) - Customers: 2,824	50.1	1.2	2.0	75.5	2.0	0.9	54.6	0.1	1.9	42.2	0.9	0.0	21.6	0.0	0.0	0.2	0.0	0.0	7.4	0.0	1.1	71.4	0.9	1.1
3rd Party	69%	91%	100%	0%	0%	0%	5%	26%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	9%	2%	0%	44%	50%	0%	44%	46%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	22%	7%	0%	4%	0%	0%	49%	26%	100%	4%	3%	0%	100%	100%	0%	100%	100%	0%	0%	0%	0%	33%	6%	0%
Other	0%	0%	0%	1%	1%	0%	3%	3%	0%	96%	97%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	56%	91%	100%
Vegetation/Animal	0%	0%	0%	51%	49%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	10%	3%	0%

Reliability Histories for Individual Circuits Serving Westminster

	2013			2014			2015			1st Qtr 2016			2nd Qtr 2016			3rd Qtr 2016			4th Qtr 2016			2016		
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI
LAKERS(12KV) - Customers: 1,682	14.0	0.1	0.0	35.7	0.1	1.0	101.1	1.0	0.2	43.1	1.1	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	45.9	1.1	0.0
3rd Party	0%	0%	0%	37%	19%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	91%	95%	0%	45%	20%	0%	92%	93%	100%	65%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	61%	7%	0%
Operation	9%	5%	0%	19%	61%	0%	8%	7%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	6%	3%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	35%	93%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	33%	90%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
MCKEEVER(12KV) - Customers: 3,488	136.5	1.3	2.3	23.3	0.1	1.0	5.9	0.0	0.0	37.4	1.0	2.8	11.6	0.0	0.0	0.0	0.0	0.0	14.6	1.0	0.0	63.6	2.1	2.8
3rd Party	20%	16%	79%	0%	0%	99%	65%	76%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	80%	84%	21%	95%	86%	1%	35%	24%	0%	100%	100%	64%	99%	56%	0%	0%	0%	0%	60%	2%	0%	91%	51%	64%
Operation	0%	0%	0%	5%	14%	0%	0%	0%	0%	0%	0%	36%	1%	44%	0%	0%	0%	0%	40%	98%	0%	9%	49%	36%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
MIDWAY(4.16KV) - Customers: 441	609.1	2.0	0.0	0.0	0.0	1.0	550.7	1.0	0.0	14.8	1.0	0.0	0.0	0.0	0.0	16.6	0.1	1.0	0.0	0.0	0.0	31.3	1.0	1.0
3rd Party	5%	50%	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	95%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	53%	6%	0%
Operation	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	47%	94%	100%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PAUL(12KV) - Customers: 1,636	52.4	0.3	2.6	225.9	2.0	2.2	244.5	1.0	1.3	11.9	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9	0.7	0.3
3rd Party	0%	0%	0%	0%	0%	46%	71%	91%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	40%	70%	61%	61%	16%	0%	29%	9%	0%	45%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	45%	1%	0%
Operation	60%	30%	0%	3%	51%	16%	0%	0%	0%	55%	99%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	55%	99%	100%
Other	0%	0%	39%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	0%	0%	0%	35%	33%	38%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Reliability Histories for Individual Circuits Serving Westminster

	2013			2014			2015			1st Qtr 2016			2nd Qtr 2016			3rd Qtr 2016			4th Qtr 2016			2016		
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI
SIoux(12KV) - Customers: 1,688	65.3	0.1	0.6	43.6	1.0	0.0	51.8	1.0	0.0	57.5	1.2	1.2	0.0	0.0	0.9	3.1	0.0	0.0	0.0	0.0	0.0	60.6	1.2	2.1
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	83%	85%	0%	96%	99%	0%	8%	1%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	5%	0%	0%
Operation	17%	15%	100%	4%	1%	0%	92%	99%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	95%	100%	55%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	45%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SONICS(12KV) - Customers: 3,608	165.5	2.6	1.7	28.8	0.1	0.0	82.1	1.1	1.0	32.4	1.0	0.0	70.0	0.8	0.9	103.4	1.0	1.9	65.7	0.2	0.0	271.5	3.0	2.8
3rd Party	79%	87%	100%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	94%	99%	48%	0%	0%	0%	36%	33%	32%
Equipment Failure	16%	7%	0%	29%	54%	0%	82%	98%	0%	10%	1%	0%	8%	3%	0%	6%	1%	0%	100%	98%	0%	30%	7%	0%
Operation	5%	6%	0%	71%	46%	0%	18%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	90%	99%	0%	61%	89%	0%	0%	0%	52%	0%	2%	0%	27%	58%	35%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	31%	8%	100%	0%	0%	0%	0%	0%	0%	8%	2%	33%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
TITTLE(12KV) - Customers: 3,074	63.7	0.5	4.5	82.6	1.2	5.4	88.5	1.1	4.0	270.1	0.9	1.4	8.4	0.0	0.0	53.0	0.5	0.0	0.0	0.0	0.0	331.5	1.5	1.4
3rd Party	17%	13%	43%	47%	36%	19%	56%	91%	50%	0%	0%	0%	0%	0%	0%	81%	91%	0%	0%	0%	0%	13%	32%	0%
Equipment Failure	22%	4%	0%	16%	7%	19%	32%	5%	0%	3%	0%	0%	100%	100%	0%	19%	9%	0%	0%	0%	0%	8%	5%	0%
Operation	2%	1%	0%	0%	0%	18%	9%	3%	25%	2%	51%	49%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	32%	49%
Other	0%	0%	0%	0%	0%	0%	2%	0%	25%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	9%	12%	43%	37%	57%	26%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	50%	70%	14%	0%	0%	18%	0%	0%	0%	96%	49%	51%	0%	0%	0%	0%	0%	0%	0%	0%	0%	78%	31%	51%
TULSA(12KV) - Customers: 2,290	0.0	0.0	0.0	5.9	0.0	0.5	78.6	1.0	0.9	102.5	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	56.1	1.0	0.0	158.6	3.0	1.0
3rd Party	0%	0%	0%	0%	0%	0%	97%	96%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	0%	0%	0%	100%	100%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	85%	97%	0%	30%	32%	0%
Operation	0%	0%	0%	0%	0%	0%	0%	0%	0%	44%	50%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	29%	33%	100%
Other	0%	0%	0%	0%	0%	100%	0%	0%	0%	56%	50%	0%	0%	0%	0%	0%	0%	0%	15%	3%	0%	41%	34%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	2%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Reliability Histories for Individual Circuits Serving Westminster

	2013			2014			2015			1st Qtr 2016			2nd Qtr 2016			3rd Qtr 2016			4th Qtr 2016			2016		
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI
VAN BROCKLIN(12KV) - Customers: 1,308	232.4	2.1	0.0	226.4	2.7	0.7	100.3	0.7	2.0	0.0	0.0	1.0	0.5	0.0	0.0	25.5	0.1	1.0	0.0	0.0	0.0	26.0	0.1	2.0
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	100%	99%	0%	62%	59%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	79%	80%	0%	0%	0%	0%	77%	70%	0%
Operation	0%	1%	0%	38%	41%	100%	0%	0%	0%	0%	0%	100%	100%	100%	0%	21%	20%	0%	0%	0%	0%	23%	30%	50%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	50%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
WARRIORS(12KV) - Customers: 3,675	180.0	1.6	2.4	103.5	1.8	2.7	30.1	1.3	3.0	53.0	2.1	1.9	59.2	1.1	0.0	2.3	0.0	1.0	71.7	1.0	0.0	186.2	4.2	2.9
3rd Party	17%	63%	41%	41%	55%	36%	31%	1%	33%	0%	0%	0%	88%	94%	0%	29%	19%	100%	0%	0%	0%	28%	24%	34%
Equipment Failure	0%	0%	0%	42%	13%	28%	9%	0%	0%	29%	4%	0%	0%	0%	0%	0%	0%	0%	2%	1%	0%	9%	2%	0%
Operation	0%	0%	0%	1%	1%	0%	59%	99%	67%	16%	2%	50%	12%	6%	0%	0%	0%	0%	0%	0%	0%	8%	3%	33%
Other	0%	0%	41%	0%	0%	0%	0%	0%	0%	28%	47%	0%	0%	0%	0%	0%	0%	0%	98%	99%	0%	46%	47%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	71%	81%	0%	0%	0%	0%	1%	0%	0%
Weather/Fire/Earthquake	82%	37%	17%	16%	32%	36%	0%	0%	0%	27%	47%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	8%	24%	33%
WATERFIELD(12KV) - Customers: 2,756	98.2	1.3	0.0	246.2	2.2	1.0	2.6	0.0	0.0	0.0	0.0	1.0	60.9	0.9	0.1	0.0	0.0	0.0	68.7	1.6	2.2	129.6	2.5	3.3
3rd Party	47%	90%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	78%	94%	100%	0%	0%	0%	22%	35%	46%	48%	57%	34%
Equipment Failure	48%	6%	0%	57%	55%	100%	100%	100%	0%	0%	0%	0%	19%	4%	0%	0%	0%	0%	78%	65%	54%	51%	42%	37%
Operation	5%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	3%	3%	0%	0%	0%	0%	0%	0%	0%	1%	1%	29%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	43%	45%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
WICHITA(12KV) - Customers: 1,392	104.5	1.0	0.0	0.0	0.0	2.0	150.5	1.3	2.0	16.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	16.0	1.0	2.0
3rd Party	96%	99%	0%	0%	0%	0%	99%	98%	100%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	50%
Equipment Failure	4%	1%	0%	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	0%	0%	0%	0%	0%	50%	1%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	50%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Reliability Histories for Individual Circuits Serving Westminster

	2013			2014			2015			1st Qtr 2016			2nd Qtr 2016			3rd Qtr 2016			4th Qtr 2016			2016		
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI
WINTERSBURG(12KV) - Customers: 2,783	0.0	0.0	0.0	16.0	0.0	3.0	105.0	2.5	2.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.0	5.2	0.0	1.0
3rd Party	0%	0%	0%	0%	0%	67%	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	100%
Equipment Failure	0%	0%	0%	0%	0%	33%	58%	3%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	85%	87%	0%
Operation	0%	0%	0%	100%	100%	0%	14%	43%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	15%	13%	0%
Other	0%	0%	0%	0%	0%	0%	22%	40%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	2%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	4%	13%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
YOUNGER(12KV) - Customers: 3,943	32.3	1.0	1.9	36.8	0.1	1.0	44.1	0.0	2.0	2.1	0.0	1.0	45.7	1.5	0.0	0.0	0.0	0.0	6.1	0.0	0.0	53.8	1.5	1.0
3rd Party	17%	3%	100%	0%	0%	100%	0%	0%	100%	100%	100%	0%	92%	100%	0%	0%	0%	0%	0%	0%	0%	82%	98%	0%
Equipment Failure	82%	97%	0%	59%	42%	0%	3%	14%	0%	0%	0%	0%	8%	0%	0%	0%	0%	0%	100%	100%	0%	18%	2%	0%
Operation	1%	0%	0%	24%	49%	0%	97%	86%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	18%	9%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%