



Circuit Reliability Review

San Bernardino District 5

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://www.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 Redlands District

Banning

Beaumont

Box Springs Mountain

Calimesa

Cherry Valley

Colton

Grand Terrace

Highgrove

Highland

Loma Linda

Mentone

Muscoy

Redlands

Rialto

Riverside

San Bernardino

Yucaipa

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.

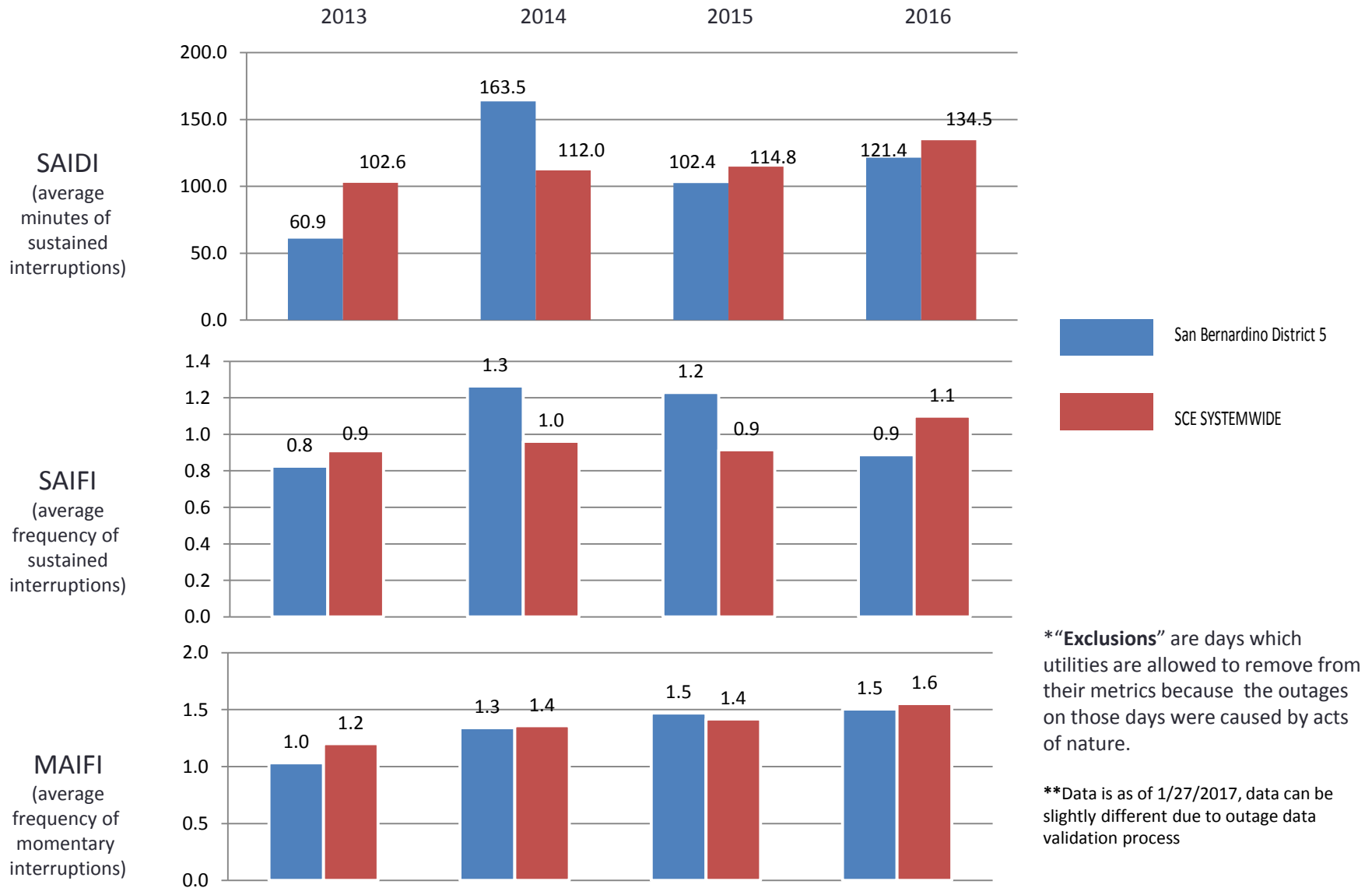
**In the columns showing "Rank," lower numbers indicate poorer performance.

Overview of San Bernardino District 5

There are 47 circuits that serve San Bernardino District 5

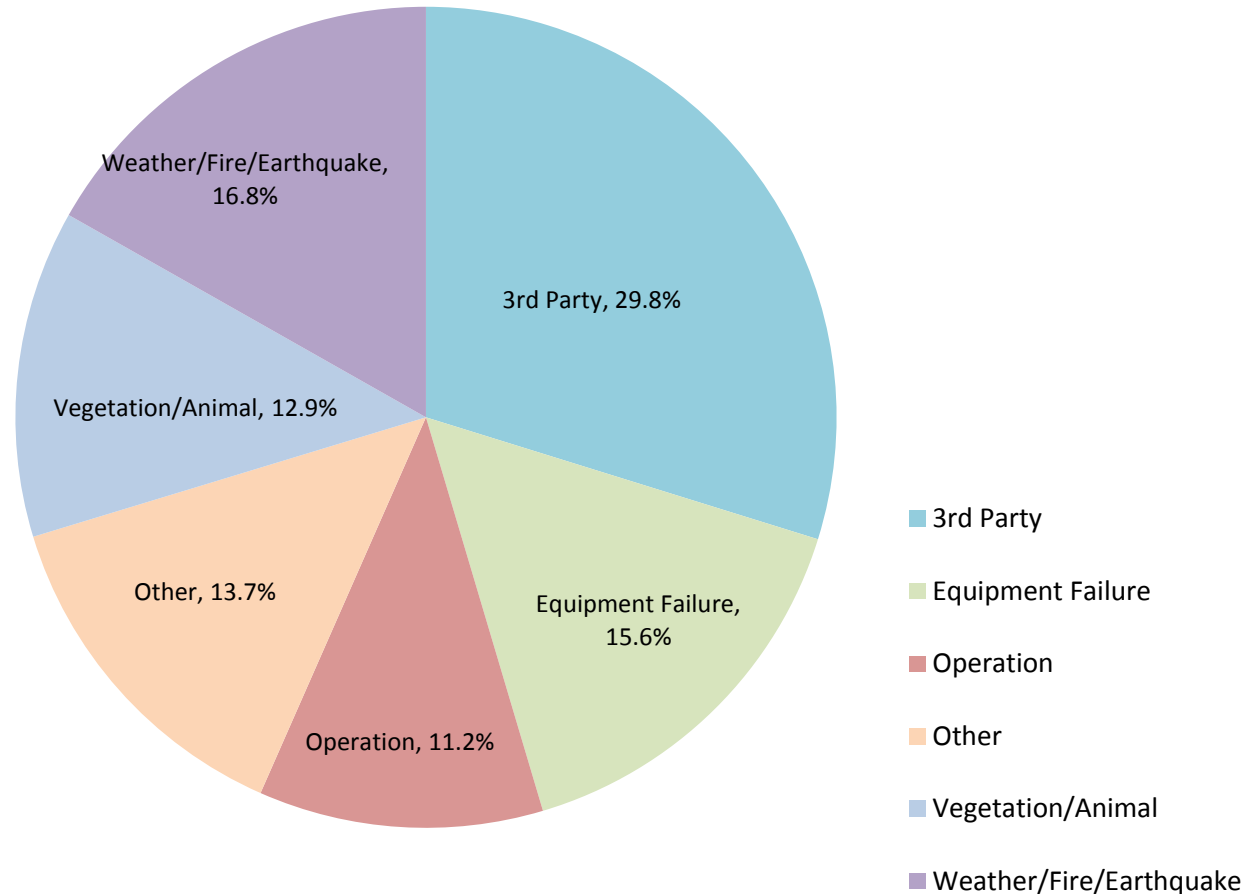
Circuit Type	Sum of Customers	Circuit Type	Sum of Customers	Circuit Type	Sum of Customers	Circuit Type	Sum of Customers
AVANTI(12KV)	1,542	REDBALL(12KV)	304				
BADGER(12KV)	1,744	ROCHHOLTZ(4.16KV)	715				
BOBBER(12KV)	1,918	ROI-TAN(12KV)	2,773				
BOMBAY(12KV)	101	SLOVER(12KV)	928				
BURGUNDY(12KV)	1,669	SPIKE(12KV)	1,214				
CACTUS(12KV)	4	STOCKCAR(12KV)	2,444				
CARMELITA(12KV)	2,292	STREAMLINER(12KV)	886				
CHARLIE(12KV)	1,610	SUSAN(12KV)	1,409				
CLUB OAKS(33KV)	2	TAMPICO(12KV)	980				
DERBY(12KV)	534	TENDER(12KV)	1,393				
DOMIC(12KV)	1,459	TURNTABLE(12KV)	745				
DRAGON(12KV)	337	VERDEMONT(33KV)	10				
DUROX(12KV)	692	WARM CREEK(12KV)	491				
FLATCAR(12KV)	861	WATERMAN(12KV)	1,297				
FLEETWOOD(12KV)	325	WHITLOCK(4.16KV)	397				
FRISBIE(12KV)	1,527	WIGWAG(12KV)	2,162				
HEATHER(12KV)	1,791	ZAPATA(12KV)	1,117				
HIGHBALL(12KV)	1,630						
HOPPER(12KV)	1,707						
IRONHORSE(12KV)	231						
IRVINGTON(12KV)	605						
KIMBERLY(2.4KV)	50						
LARCH(33KV)	3						
LEROY(4.16KV)	651						
LIMONITE(33KV)	2						
LYTLE(12KV)	1,607						
MACY(4.16KV)	651						
MORA(12KV)	1,627						
NORTHPARK(12KV)	2,240						
POWER(4.16KV)	885						
Grand Total	49,562						

Reliability History of Circuits Serving San Bernardino District 5 (No Exclusions)



Causes of Repair Outages in San Bernardino District 5 Circuits 2016 YTD

Contributions to SAIDI by Outage Cause

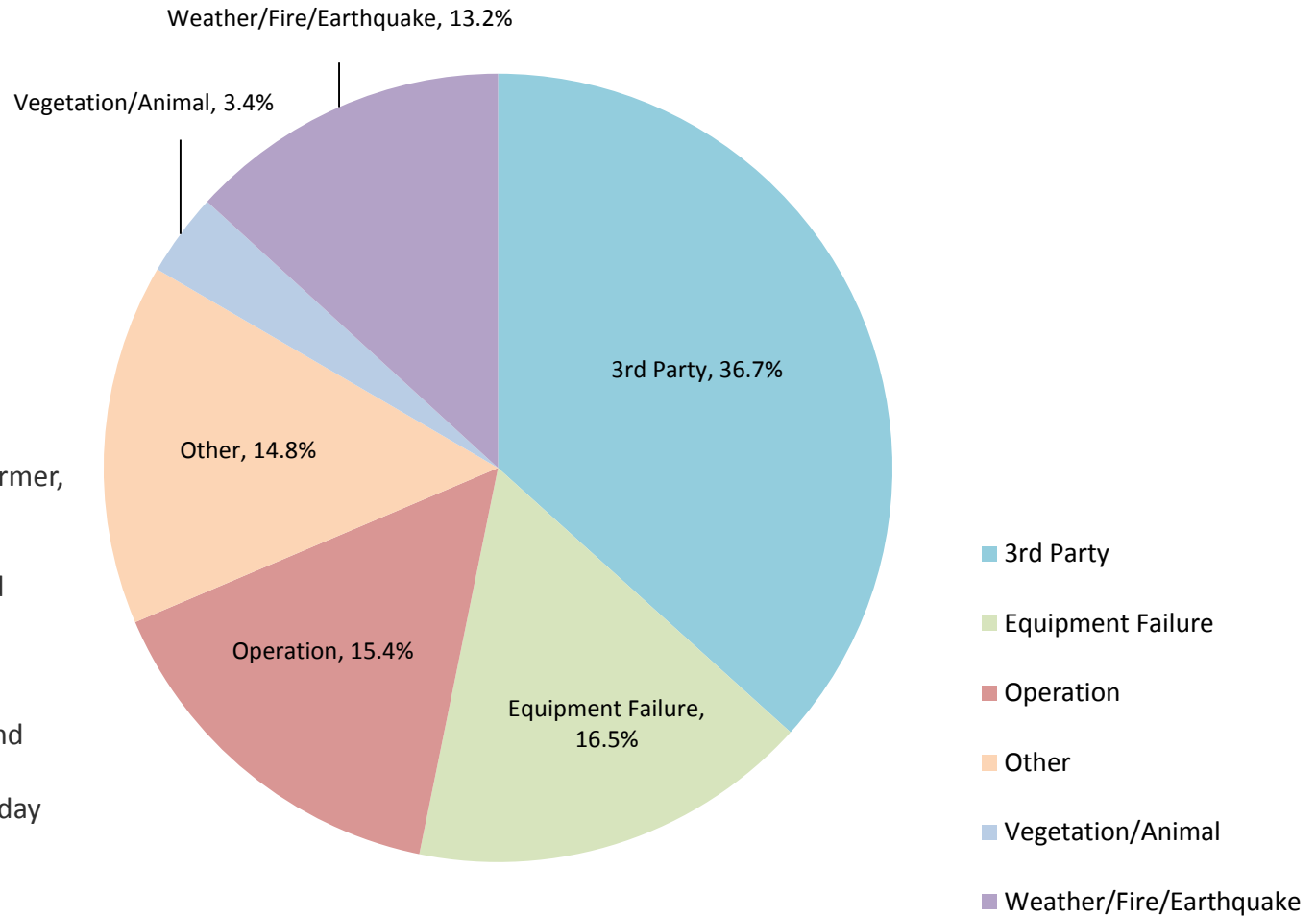


- **Equipment Failure**
e.g., in-service failure of transformer, switch, or conductors
- **Vegetation/Animal**
e.g., tree branch, rodent, or bird causing a short circuit between conductors
- **Other**
e.g., patrolled but no cause found
- **Operations**
e.g., urgent maintenance w/o 3-day notice
- **3rd Party**
e.g., balloon, car hit pole, dig-in

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

Causes of Repair Outages in San Bernardino District 5 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 San Bernardino District 5

Updated through Year-End 2016

Average Reliability of 47 Circuits Serving San Bernardino District 5

	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
San Bernardino District 5	60.9	0.8	1.0	163.5	1.3	1.3	102.4	1.2	1.5	37.5	0.3	0.4	16.9	0.1	0.3	35.6	0.3	0.5	31.4	0.2	0.3	121.4	0.9	1.5
3rd Party	23%	41%	25%	17%	19%	26%	37%	21%	32%	44%	41%	16%	24%	38%	34%	37%	48%	37%	8%	11%	8%	30%	37%	24%
Equipment Failure	32%	19%	13%	55%	32%	11%	31%	45%	20%	4%	11%	16%	37%	22%	24%	23%	22%	40%	10%	12%	2%	16%	16%	22%
Operation	19%	12%	6%	5%	14%	1%	11%	14%	2%	9%	15%	0%	15%	12%	2%	9%	14%	2%	15%	20%	3%	11%	15%	2%
Other	7%	7%	40%	3%	10%	38%	12%	8%	27%	14%	15%	26%	24%	29%	41%	3%	10%	11%	20%	14%	58%	14%	15%	31%
Vegetation/Animal	0%	0%	4%	1%	6%	13%	2%	6%	3%	18%	6%	8%	0%	0%	0%	25%	5%	9%	0%	0%	1%	13%	3%	5%
Weather/Fire/Earthquake	19%	22%	12%	20%	20%	12%	7%	5%	16%	12%	13%	35%	0%	0%	0%	3%	2%	0%	47%	43%	29%	17%	13%	16%
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 San Bernardino District 5

	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
AVANTI(12KV) - Customers: 1,542	146.5	2.1	0.0	27.6	0.5	0.0	69.8	3.0	0.2	3.2	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	3.8	0.0	0.0	9.7	0.0	0.0
3rd Party	6%	48%	0%	0%	0%	0%	29%	1%	60%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	28%	90%	0%
Equipment Failure	73%	27%	0%	1%	0%	0%	45%	66%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	33%	5%	0%
Operation	21%	25%	0%	99%	100%	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%	100%	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%	25%	32%	40%	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%	39%	5%	0%
BADGER(12KV) - Customers: 1,744	67.2	1.3	0.0	35.2	0.2	0.0	92.4	2.0	2.1	0.0	0.0	0.0	0.7	0.0	1.0	12.0	0.0	0.0	0.4	0.0	0.0	13.1	0.0	1.0
3rd Party	13%	78%	0%	0%	0%	0%	24%	25%	47%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	42%	4%	18%	0%	0%	0%	15%	49%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	16%	15%	28%	33%	66%	0%	2%	1%	0%	0%	0%	0%	60%	91%	0%	97%	89%	0%	0%	0%	0%	92%	76%	0%
Other	12%	1%	27%	53%	31%	100%	58%	25%	53%	0%	0%	100%	0%	0%	100%	3%	11%	100%	100%	100%	100%	5%	23%	100%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	40%	9%	0%	0%	0%	0%	0%	0%	0%	2%	1%	0%
Weather/Fire/Earthquake	16%	2%	27%	13%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
BOBBER(12KV) - Customers: 1,918	0.0	0.0	0.0	17.0	0.1	0.0	79.5	0.7	2.3	0.0	0.0	1.0	0.0	0.0	0.0	0.4	0.0	0.0	41.3	0.1	0.0	41.7	0.1	1.0
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	43%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	0%	0%	0%	100%	95%	0%	57%	50%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	26%	62%	0%	27%	62%	0%
Operation	0%	0%	0%	0%	5%	0%	0%	0%	14%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	5%	0%	0%	5%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	43%	50%	43%	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%	74%	33%	0%	73%	33%	0%
BOMBAY(12KV) - Customers: 101	0.0	0.0	0.0	544.3	1.1	2.0	17.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0
3rd Party	0%	0%	0%	100%	99%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	100%
Equipment Failure	0%	0%	0%	0%	1%	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%	100%	100%	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%	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 San Bernardino District 5

	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
BURGUNDY(12KV) - Customers: 1,669	22.2	0.0	0.9	23.0	1.0	2.0	90.0	1.5	2.1	52.2	1.0	1.3	7.2	0.0	1.0	8.5	0.0	0.0	5.8	0.0	0.0	73.6	1.1	2.3
3rd Party	0%	0%	0%	0%	0%	50%	96%	98%	48%	0%	0%	0%	18%	53%	0%	0%	0%	0%	0%	0%	0%	2%	1%	0%
Equipment Failure	100%	100%	59%	18%	0%	0%	0%	0%	0%	23%	1%	21%	82%	47%	0%	0%	0%	0%	44%	35%	0%	27%	3%	12%
Operation	0%	0%	0%	0%	0%	0%	1%	0%	3%	58%	96%	0%	0%	0%	0%	0%	0%	0%	56%	65%	0%	46%	91%	0%
Other	0%	0%	41%	0%	0%	0%	0%	0%	48%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	44%
Vegetation/Animal	0%	0%	0%	0%	0%	50%	3%	1%	0%	6%	1%	79%	0%	0%	0%	100%	100%	0%	0%	0%	0%	16%	4%	44%
Weather/Fire/Earthquake	0%	0%	0%	82%	100%	0%	0%	0%	0%	13%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	9%	1%	0%
CACTUS(12KV) - Customers: 4	0.0	0.0	0.0	265.7	1.2	1.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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%	96%	17%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	0%	0%	0%	4%	83%	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%	100%	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%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CARMELITA(12KV) - Customers: 2,292	0.0	0.0	0.0	344.8	3.0	0.0	192.5	2.5	3.0	12.9	0.0	0.0	32.7	0.2	1.0	0.6	0.0	0.0	0.0	0.0	0.0	46.2	0.3	1.0
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
Equipment Failure	0%	0%	0%	65%	76%	0%	69%	92%	100%	28%	26%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	9%	2%	0%
Operation	0%	0%	0%	0%	0%	0%	0%	0%	0%	72%	74%	0%	2%	40%	0%	0%	0%	0%	0%	0%	0%	22%	42%	0%
Other	0%	0%	0%	0%	0%	0%	30%	7%	0%	0%	0%	0%	98%	60%	0%	0%	0%	0%	0%	0%	0%	69%	55%	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%	35%	24%	0%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
CHARLIE(12KV) - Customers: 1,610	105.5	1.0	0.0	135.1	1.0	0.0	55.5	0.2	0.0	0.0	0.0	0.0	1.6	0.0	1.1	7.6	0.9	0.0	0.0	0.0	0.0	9.1	1.0	1.1
3rd Party	2%	3%	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%	99%	99%	0%	99%	78%	0%	0%	0%	0%	96%	91%	100%	0%	0%	0%	0%	0%	0%	16%	1%	100%
Operation	0%	0%	0%	1%	1%	0%	0%	5%	0%	0%	0%	0%	4%	9%	0%	100%	100%	0%	0%	0%	0%	84%	99%	0%
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	98%	97%	0%	0%	0%	0%	1%	18%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Reliability Histories for Individual Circuits Serving San Bernardino District 5

	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
CLUB OAKS(33KV) - Customers: 2	0.0	0.0	2.0	0.0	0.0	0.0	863.0	1.0	6.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	22.0	1.0	0.0	22.0	1.0	2.0
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	50%
Equipment Failure	0%	0%	0%	0%	0%	0%	100%	100%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	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%	50%	0%	0%	0%	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	50%
Vegetation/Animal	0%	0%	50%	0%	0%	0%	0%	0%	17%	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%
DERBY(12KV) - Customers: 534	25.7	0.1	2.0	299.2	2.0	1.0	895.7	2.2	1.5	0.0	0.0	0.0	1.5	0.0	0.0	254.9	1.0	0.0	0.0	0.0	0.0	256.4	1.0	0.0
3rd Party	0%	0%	0%	0%	0%	0%	61%	45%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	99%	96%	0%
Equipment Failure	100%	100%	0%	97%	50%	100%	12%	8%	57%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	0%	0%	0%	3%	50%	0%	17%	45%	43%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	1%	4%	0%
Other	0%	0%	50%	0%	0%	0%	11%	3%	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%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
DOMIC(12KV) - Customers: 1,459	143.8	1.0	0.0	446.0	3.0	2.6	107.7	1.8	2.9	309.1	2.1	7.0	0.0	0.0	0.0	35.1	1.0	0.0	7.8	0.0	2.6	352.0	3.1	9.6
3rd Party	100%	100%	0%	0%	0%	0%	0%	0%	34%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	3%	31%	0%	0%	8%
Equipment Failure	0%	0%	0%	7%	12%	0%	83%	99%	38%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	0%	0%	0%	4%	34%	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%	69%	0%	0%	0%	55%	47%	28%	0%	0%	0%	100%	100%	0%	0%	0%	69%	58%	64%	39%
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%	89%	54%	31%	16%	1%	28%	44%	53%	72%	0%	0%	0%	0%	0%	0%	99%	97%	0%	41%	36%	52%
DRAGON(12KV) - Customers: 337	0.0	0.0	0.0	0.0	0.0	0.0	17.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd Party	0%	0%	0%	0%	0%	0%	100%	100%	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%	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 San Bernardino District 5

	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
DUROX(12KV) - Customers: 692	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	101.7	1.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	101.7	1.4	0.6
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	100%	100%	100%
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%	100%	100%	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%	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%
FLATCAR(12KV) - Customers: 861	60.6	1.0	4.0	58.3	1.0	4.0	0.0	0.0	2.1	0.0	0.0	0.0	27.6	0.1	0.0	1.4	0.0	0.0	0.0	0.0	1.0	29.0	0.1	1.0
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%	82%	13%	0%	0%	0%	49%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	95%	51%	0%
Operation	0%	0%	0%	18%	87%	25%	0%	0%	2%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	5%	49%	0%
Other	0%	0%	25%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	100%
Vegetation/Animal	12%	3%	25%	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	88%	97%	50%	0%	0%	25%	0%	0%	49%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
FLEETWOOD(12KV) - Customers: 325	331.6	2.1	0.9	75.4	1.0	4.0	10.3	0.0	1.0	5.9	1.0	0.0	7.9	1.0	0.0	116.4	1.0	0.0	0.0	0.0	1.0	130.2	3.0	1.0
3rd Party	77%	47%	0%	65%	3%	25%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	89%	34%	0%
Equipment Failure	23%	53%	100%	1%	0%	0%	100%	100%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	100%	6%	33%	100%
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%	75%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	5%	33%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	34%	97%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
FRISBIE(12KV) - Customers: 1,527	10.2	0.0	1.0	52.6	1.7	4.3	38.1	0.1	0.0	0.0	0.0	0.0	1.7	0.0	0.0	3.2	0.0	0.0	1.7	0.0	0.0	6.7	0.0	0.0
3rd Party	100%	100%	100%	0%	0%	23%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	0%	0%	0%	3%	0%	0%	92%	50%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	49%	36%	0%
Operation	0%	0%	0%	0%	0%	0%	8%	50%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	100%	100%	0%	51%	64%	0%
Other	0%	0%	0%	0%	0%	47%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	0%	0%	0%	53%	58%	23%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	44%	42%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Reliability Histories for Individual Circuits Serving San Bernardino District 5

	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
HEATHER(12KV) - Customers: 1,791	19.7	0.0	3.0	381.2	3.0	3.7	87.9	2.1	1.0	1.4	0.0	0.0	56.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.7	0.1	0.0
3rd Party	0%	0%	67%	0%	0%	0%	58%	49%	100%	56%	93%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	5%	0%
Equipment Failure	100%	100%	0%	23%	34%	0%	7%	1%	0%	44%	7%	0%	85%	61%	0%	0%	0%	0%	0%	0%	0%	84%	58%	0%
Operation	0%	0%	0%	0%	0%	0%	35%	50%	0%	0%	0%	0%	15%	39%	0%	0%	0%	0%	0%	0%	0%	14%	36%	0%
Other	0%	0%	33%	0%	0%	81%	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%	77%	66%	19%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
HIGHBALL(12KV) - Customers: 1,630	4.0	0.0	1.0	191.7	1.1	2.0	104.5	1.1	1.0	196.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.3	0.0	0.0	212.1	1.0	0.0
3rd Party	0%	0%	0%	95%	95%	0%	69%	89%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	93%	97%	0%
Equipment Failure	0%	0%	0%	1%	1%	0%	29%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	53%	42%	0%	2%	3%	0%	3%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	47%	58%	100%	0%	0%	49%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	7%	2%	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%	2%	0%	51%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
HOPPER(12KV) - Customers: 1,707	13.1	0.1	1.0	46.3	0.1	3.0	36.5	0.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	173.3	0.6	0.4	175.3	0.6	0.4
3rd Party	0%	0%	0%	0%	0%	0%	3%	12%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	63%	36%	0%	93%	72%	33%	64%	42%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	1%	1%	0%
Operation	37%	64%	0%	7%	28%	0%	32%	46%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	6%	6%	0%	6%	6%	0%
Other	0%	0%	100%	0%	0%	33%	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%	33%	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%	94%	94%	100%	93%	94%	100%
IRONHORSE(12KV) - Customers: 231	76.4	1.0	0.9	43.2	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0
3rd Party	100%	100%	100%	89%	76%	100%	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%	100%	100%	0%	0%	0%	0%	100%	100%	0%
Other	0%	0%	0%	11%	24%	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 San Bernardino District 5

	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
IRVINGTON(12KV) - Customers: 605	63.1	2.0	0.0	0.8	0.0	1.8	22.0	1.4	2.0	0.0	0.0	0.0	2.3	0.0	1.3	0.0	0.0	0.0	0.3	0.0	0.0	2.6	0.0	1.3
3rd Party	23%	49%	0%	0%	0%	77%	39%	26%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	9%	1%	0%	0%	0%	0%	60%	73%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	89%	67%	100%
Operation	0%	0%	0%	0%	0%	0%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	11%	33%	0%
Other	0%	0%	0%	0%	0%	23%	0%	0%	50%	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	68%	49%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
KIMBERLY(2.4KV) - Customers: 50	0.0	0.0	2.0	221.4	1.0	0.0	907.9	1.1	6.1	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	401.4	2.0	0.0	401.4	2.0	2.0
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	50%
Equipment Failure	0%	0%	0%	100%	100%	0%	100%	100%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	27%	50%	0%	27%	50%	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%	50%	0%	0%	0%	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	50%
Vegetation/Animal	0%	0%	50%	0%	0%	0%	0%	0%	17%	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%	73%	50%	0%	73%	50%	0%
LARCH(33KV) - Customers: 3	563.0	1.0	0.0	1178.6	8.1	0.0	155.0	3.0	4.0	0.0	0.0	3.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
3rd Party	100%	100%	0%	4%	11%	0%	0%	0%	25%	0%	0%	33%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	50%
Equipment Failure	0%	0%	0%	95%	79%	0%	72%	67%	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%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	1%	11%	0%	28%	33%	25%	0%	0%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	25%
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%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	25%
LEROY(4.16KV) - Customers: 651	104.7	3.2	2.0	447.4	2.1	5.3	471.5	1.0	2.0	0.0	0.0	2.0	60.6	0.1	0.0	14.1	0.2	0.0	8.0	0.0	0.0	82.7	0.3	2.0
3rd Party	7%	31%	0%	90%	48%	6%	74%	80%	100%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	17%	51%	0%
Equipment Failure	19%	32%	0%	8%	3%	19%	22%	18%	0%	0%	0%	50%	0%	0%	0%	0%	0%	0%	100%	100%	0%	10%	4%	50%
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	74%	36%	50%	0%	0%	0%	0%	0%	0%	0%	0%	50%	100%	100%	0%	0%	0%	0%	0%	0%	0%	73%	45%	50%
Vegetation/Animal	0%	0%	0%	2%	48%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	50%	0%	0%	75%	4%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Reliability Histories for Individual Circuits Serving San Bernardino District 5

	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
LIMONITE(33KV) - Customers: 2	1052.0	4.0	2.0	334.0	2.0	1.0	775.6	3.3	1.1	324.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	324.3	1.0	1.0
3rd Party	53%	25%	0%	75%	50%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	41%	50%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	100%
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	7%	25%	100%	0%	0%	0%	0%	0%	100%	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%	25%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
LYTLE(12KV) - Customers: 1,607	22.9	0.1	1.4	83.2	3.2	1.0	17.8	0.1	2.0	6.7	0.0	0.0	0.0	0.0	0.0	28.1	0.2	0.0	6.8	0.0	2.0	41.6	0.2	2.0
3rd Party	0%	0%	0%	56%	63%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	17%	27%	27%	36%	5%	0%	89%	98%	0%	0%	0%	0%	0%	0%	0%	66%	50%	0%	100%	100%	0%	61%	44%	0%
Operation	83%	73%	0%	8%	32%	0%	1%	1%	0%	100%	100%	0%	0%	0%	0%	34%	50%	0%	0%	0%	0%	39%	56%	0%
Other	0%	0%	73%	0%	0%	98%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	50%	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%	10%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	50%	0%	0%	50%
MACY(4.16KV) - Customers: 651	282.9	1.0	4.0	49.6	2.0	2.0	66.1	4.0	3.0	234.4	1.0	0.0	0.0	0.0	1.0	225.5	2.2	1.7	0.0	0.0	0.0	459.8	3.3	2.7
3rd Party	0%	0%	50%	74%	50%	50%	0%	0%	33%	96%	98%	0%	0%	0%	0%	59%	89%	57%	0%	0%	0%	78%	92%	36%
Equipment Failure	99%	98%	50%	0%	0%	0%	11%	25%	33%	4%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	1%	0%
Operation	1%	2%	0%	14%	1%	0%	4%	0%	0%	0%	0%	0%	0%	0%	0%	41%	11%	43%	0%	0%	0%	20%	7%	27%
Other	0%	0%	0%	12%	49%	50%	23%	25%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	36%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	14%	25%	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%	49%	25%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
MORA(12KV) - Customers: 1,627	30.0	0.2	1.1	3.3	0.0	1.1	126.3	1.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	21.3	0.1	0.2	0.0	0.0	0.1	21.3	0.1	0.2
3rd Party	33%	30%	86%	0%	0%	0%	5%	5%	100%	0%	0%	0%	0%	0%	0%	56%	49%	64%	0%	0%	0%	56%	49%	47%
Equipment Failure	33%	47%	0%	11%	27%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	36%	0%	0%	0%	0%	0%	27%
Operation	34%	23%	4%	89%	73%	0%	88%	90%	0%	0%	0%	0%	0%	0%	0%	44%	51%	0%	0%	0%	0%	44%	51%	0%
Other	0%	0%	11%	0%	0%	5%	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%	95%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	27%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	7%	5%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Reliability Histories for Individual Circuits Serving San Bernardino District 5

	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
NORTHPARK(12KV) - Customers: 2,240	22.0	1.3	0.3	24.9	0.3	0.6	151.1	1.8	2.9	3.4	0.0	0.0	1.3	0.0	0.0	56.4	1.2	0.7	55.4	0.5	1.0	116.4	1.7	1.7
3rd Party	51%	79%	0%	0%	0%	0%	0%	0%	9%	0%	0%	0%	0%	0%	0%	56%	84%	100%	0%	0%	0%	27%	59%	42%
Equipment Failure	9%	0%	0%	2%	1%	0%	10%	55%	0%	54%	40%	0%	100%	100%	0%	31%	3%	0%	3%	0%	0%	19%	2%	0%
Operation	3%	0%	0%	11%	14%	0%	0%	0%	0%	46%	60%	0%	0%	0%	0%	4%	3%	0%	45%	51%	0%	25%	17%	0%
Other	0%	0%	100%	87%	85%	100%	23%	14%	13%	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	38%	20%	0%	0%	0%	0%	66%	31%	78%	0%	0%	0%	0%	0%	0%	8%	10%	0%	52%	49%	100%	29%	22%	58%
POWER(4.16KV) - Customers: 885	7.1	0.0	6.0	6.0	1.0	3.0	148.3	4.2	2.0	0.0	0.0	0.0	0.0	0.0	1.8	130.9	2.0	0.0	112.9	1.1	0.0	243.8	3.0	1.8
3rd Party	0%	0%	50%	0%	0%	33%	0%	0%	0%	0%	0%	0%	0%	0%	44%	100%	100%	0%	100%	100%	0%	100%	100%	44%
Equipment Failure	79%	60%	33%	0%	0%	0%	19%	24%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	21%	40%	0%	1%	1%	0%	27%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	17%	99%	99%	67%	48%	42%	50%	0%	0%	0%	0%	0%	56%	0%	0%	0%	0%	0%	0%	0%	0%	56%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	6%	24%	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%
REDBALL(12KV) - Customers: 304	0.0	0.0	0.0	126.2	1.0	0.3	0.3	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	340.0	2.9	0.0	340.0	2.9	0.8
3rd Party	0%	0%	0%	0%	0%	0%	100%	100%	66%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	100%	100%	0%
Operation	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
Other	0%	0%	0%	0%	0%	0%	0%	0%	34%	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%
ROCHHOLTZ(4.16KV) - Customers: 715	157.5	2.0	2.0	369.6	5.1	1.0	146.5	2.0	1.0	450.9	1.0	0.0	0.0	0.0	1.0	605.3	1.0	0.0	60.6	1.0	1.0	1116.7	3.0	2.0
3rd Party	0%	0%	0%	92%	60%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	2%	1%	0%	0%	0%	0%	68%	50%	0%	0%	0%	0%	0%	0%	0%	0%	1%	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	59%	50%	100%	5%	40%	100%	30%	49%	100%	0%	0%	0%	0%	0%	100%	0%	0%	0%	100%	100%	100%	5%	33%	100%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	100%	99%	0%	0%	0%	0%	95%	66%	0%
Weather/Fire/Earthquake	39%	50%	0%	4%	0%	0%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Reliability Histories for Individual Circuits Serving San Bernardino District 5

	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
ROI-TAN(12KV) - Customers: 2,773	37.5	1.1	2.9	268.1	2.2	1.1	246.0	2.1	3.0	67.3	0.7	1.0	42.2	0.5	0.0	89.1	1.1	2.8	10.4	0.0	0.0	209.0	2.3	3.7
3rd Party	28%	92%	0%	8%	1%	0%	90%	49%	66%	61%	87%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	20%	26%	26%
Equipment Failure	10%	1%	0%	58%	54%	100%	9%	50%	34%	3%	2%	0%	24%	2%	0%	100%	100%	100%	0%	0%	0%	49%	48%	74%
Operation	62%	7%	33%	0%	1%	0%	0%	1%	0%	35%	11%	0%	2%	1%	0%	0%	0%	0%	0%	0%	0%	12%	4%	0%
Other	0%	0%	67%	0%	0%	0%	0%	0%	0%	0%	0%	0%	74%	96%	0%	0%	0%	0%	0%	0%	0%	15%	22%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	33%	44%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	5%	1%	0%
SLOVER(12KV) - Customers: 928	13.9	0.4	0.0	18.7	0.2	0.0	0.6	0.0	0.0	0.0	0.0	0.0	69.0	0.2	0.0	9.3	0.1	0.0	24.2	0.0	0.0	102.5	0.3	0.0
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	80%	66%	0%	28%	25%	0%
Equipment Failure	0%	0%	0%	2%	1%	0%	100%	100%	0%	0%	0%	0%	81%	86%	0%	0%	0%	0%	0%	0%	0%	54%	61%	0%
Operation	100%	100%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	19%	14%	0%	0%	0%	0%	20%	34%	0%	18%	14%	0%
Other	0%	0%	0%	97%	99%	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%
SPIKE(12KV) - Customers: 1,214	107.2	1.9	0.0	152.5	2.1	0.0	46.9	0.1	1.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	2.0
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	50%
Equipment Failure	0%	0%	0%	95%	51%	0%	96%	87%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	0%	0%	0%	5%	49%	0%	4%	13%	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%	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	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
STOCKCAR(12KV) - Customers: 2,444	2.9	0.0	0.0	108.1	1.0	3.0	34.7	0.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0	47.7	0.1	1.9	2.0	0.0	0.0	49.7	0.1	1.9
3rd Party	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	82%	81%	100%	0%	0%	0%	79%	73%	100%
Equipment Failure	22%	23%	0%	0%	0%	0%	20%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	4%	10%	0%
Operation	33%	43%	0%	0%	0%	0%	75%	88%	0%	0%	0%	0%	0%	0%	0%	18%	19%	0%	0%	0%	0%	17%	17%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	50%	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	45%	34%	0%	0%	0%	0%	5%	2%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Reliability Histories for Individual Circuits Serving San Bernardino District 5

	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
STREAMLINER(12KV) - Customers: 886	3.9	0.0	0.0	223.9	0.2	0.0	0.4	0.0	1.0	59.5	0.1	0.8	0.0	0.0	0.0	73.4	1.0	0.0	0.0	0.0	0.0	132.9	1.1	0.8
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	91%	88%	100%	0%	0%	0%	100%	100%	0%	0%	0%	0%	96%	99%	100%
Equipment Failure	100%	100%	0%	0%	0%	0%	42%	67%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	0%	0%	0%	100%	100%	0%	0%	0%	0%	9%	12%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	4%	1%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	100%	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%	58%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SUSAN(12KV) - Customers: 1,409	151.4	2.1	0.2	70.8	1.8	1.0	160.8	0.9	2.2	67.8	1.2	1.0	52.5	0.2	0.0	1.3	0.0	0.8	0.0	0.0	0.0	121.5	1.4	1.9
3rd Party	68%	51%	0%	1%	0%	100%	100%	100%	10%	91%	66%	0%	0%	0%	0%	100%	100%	50%	0%	0%	0%	52%	57%	23%
Equipment Failure	32%	49%	100%	0%	0%	0%	0%	0%	0%	9%	34%	100%	0%	0%	0%	0%	0%	50%	0%	0%	0%	5%	30%	77%
Operation	0%	0%	0%	8%	44%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	43%	13%	0%
Other	0%	0%	0%	92%	56%	0%	0%	0%	90%	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%
TAMPICO(12KV) - Customers: 980	0.0	0.0	2.0	318.4	2.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.4	0.0	1.0	127.4	1.1	2.1	129.8	1.1	3.1
3rd Party	0%	0%	0%	0%	0%	31%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	1%	0%	32%
Equipment Failure	0%	0%	0%	83%	36%	31%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	0%	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	89%	98%	0%	88%	98%	0%
Other	0%	0%	0%	0%	0%	31%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	68%
Vegetation/Animal	0%	0%	50%	17%	63%	8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	11%	2%	0%	11%	2%	0%
TENDER(12KV) - Customers: 1,393	196.7	1.2	1.0	2.9	0.0	0.0	36.9	2.1	0.0	0.0	0.0	0.0	90.5	1.0	0.0	0.0	0.0	1.0	122.6	1.0	0.0	213.1	2.0	1.0
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	99%	100%	0%	0%	0%	0%	0%	0%	0%	42%	49%	0%
Equipment Failure	64%	87%	0%	0%	0%	0%	23%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	36%	13%	0%	100%	100%	0%	77%	99%	0%	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	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%	100%	100%	0%	58%	51%	0%

Reliability Histories for Individual Circuits Serving San Bernardino District 5

	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
TURNTABLE(12KV) - Customers: 745	63.1	0.2	0.0	55.3	1.0	0.0	265.7	2.3	2.0	158.2	1.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	435.2	1.6	0.0	593.3	2.9	1.0
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	84%	13%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	22%	6%	0%
Equipment Failure	0%	0%	0%	99%	99%	100%	21%	43%	0%	7%	75%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	35%	100%
Operation	0%	0%	0%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	5%	3%	0%	4%	2%	0%
Other	100%	100%	0%	0%	0%	0%	69%	15%	0%	9%	13%	0%	0%	0%	0%	0%	0%	0%	68%	33%	0%	52%	24%	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%	10%	43%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	27%	64%	100%	20%	34%	0%
VERDEMONT(33KV) - Customers: 10	235.1	1.0	3.1	26.6	1.2	0.7	11.8	1.2	0.2	0.0	0.0	0.0	0.0	0.0	1.0	5254.6	1.6	0.4	0.0	0.0	0.2	5254.6	1.6	1.6
3rd Party	44%	33%	64%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	7%	88%	100%	0%	0%	0%	7%	88%	25%
Equipment Failure	56%	67%	36%	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%	100%	100%	100%	24%	17%	100%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	100%	0%	0%	75%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	76%	83%	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%	93%	13%	0%	0%	0%	0%	93%	13%	0%
WARM CREEK(12KV) - Customers: 491	1.0	0.0	0.0	696.9	1.0	0.0	76.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd Party	100%	100%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	0%	0%	0%	100%	97%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	0%	0%	0%	0%	3%	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%	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%
WATERMAN(12KV) - Customers: 1,297	62.8	2.0	2.0	962.3	2.6	0.0	34.6	0.0	1.0	0.0	0.0	0.0	71.2	0.5	0.5	1.6	0.0	1.0	9.3	0.1	0.0	82.1	0.6	1.4
3rd Party	4%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	86%	50%	50%	96%	92%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	100%	100%	0%	0%	0%	0%	89%	84%	33%
Operation	0%	0%	0%	4%	8%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	10%	50%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	11%	16%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	67%
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 San Bernardino District 5

	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
WHITLOCK(4.16KV) - Customers: 397	250.2	3.8	1.0	311.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.4	0.1	0.0	0.0	0.0	0.0	65.5	0.2	1.0	97.9	0.3	1.0
3rd Party	47%	52%	100%	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%	99%	96%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	53%	48%	0%	1%	4%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	100%	100%	100%	100%	100%	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%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
WIGWAG(12KV) - Customers: 2,162	83.5	0.7	1.0	79.7	0.2	1.0	98.8	1.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.9	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%	97%	96%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	100%	100%	0%	0%	0%	0%	0%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	100%	100%	0%
Other	0%	0%	0%	0%	0%	100%	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%	100%	0%	0%	0%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
ZAPATA(12KV) - Customers: 1,117	4.0	0.0	0.0	706.5	2.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	17.8	0.0	0.0	61.3	0.1	2.0	0.0	0.0	1.0	79.0	0.1	3.0
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%	98%	50%	0%	100%	100%	0%	0%	0%	0%	100%	100%	0%	100%	100%	50%	0%	0%	0%	100%	100%	33%
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%	2%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	33%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	50%	0%	0%	0%	0%	0%	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%