



Circuit Reliability Review

Orange District 2

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.

Orange County District 2 – Fullerton, Huntington Beach, Long Beach, and Santa Ana Districts

Buena Park

Costa Mesa

Cypress

Fountain Valley

Huntington Beach

La Palma

Los Alamitos

Newport Beach

Orange County

Seal Beach

Stanton

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.

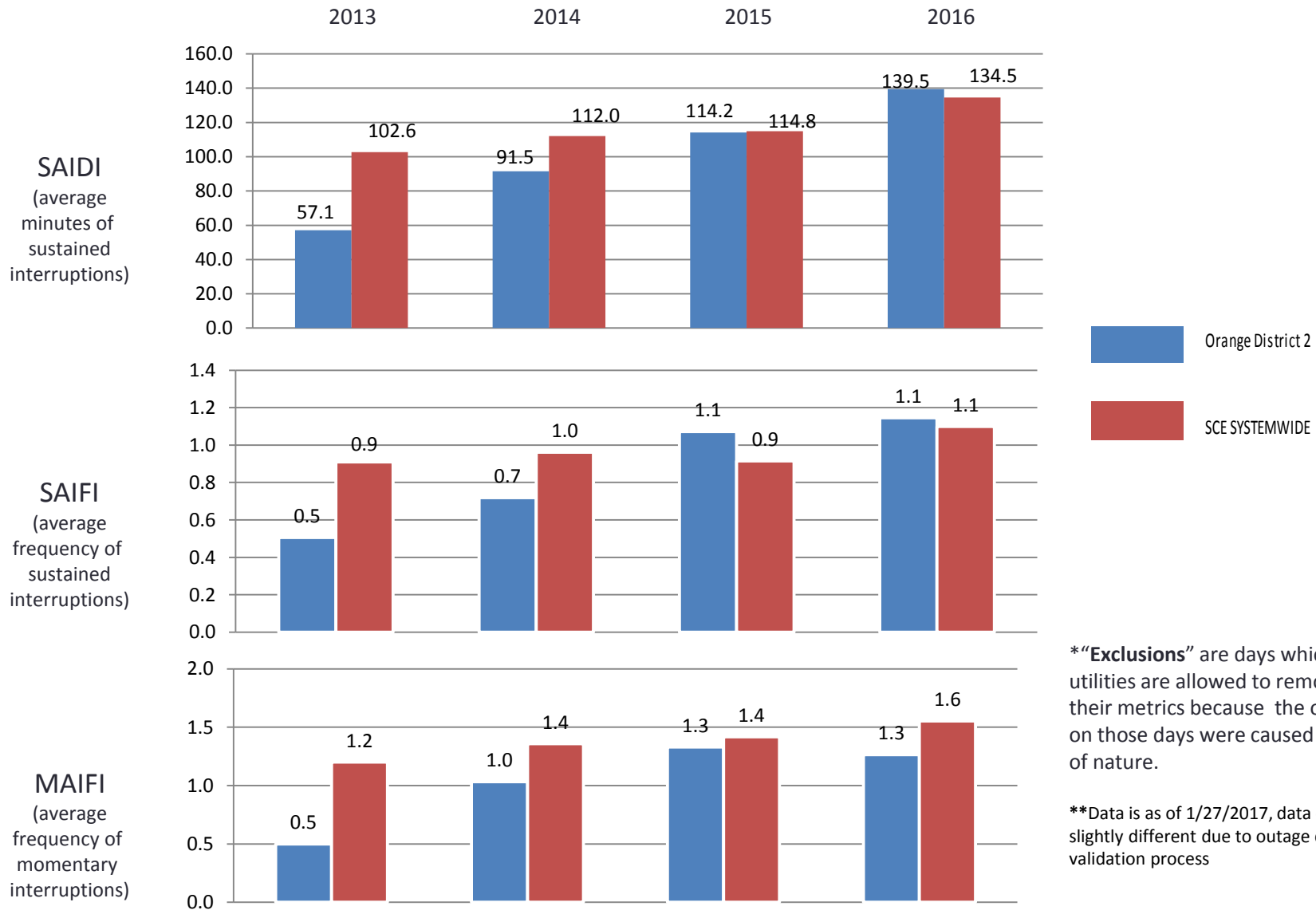
**In the columns showing "Rank," lower numbers indicate poorer performance.

Overview of Orange District 2

There are 46 circuits that serve Orange District 2

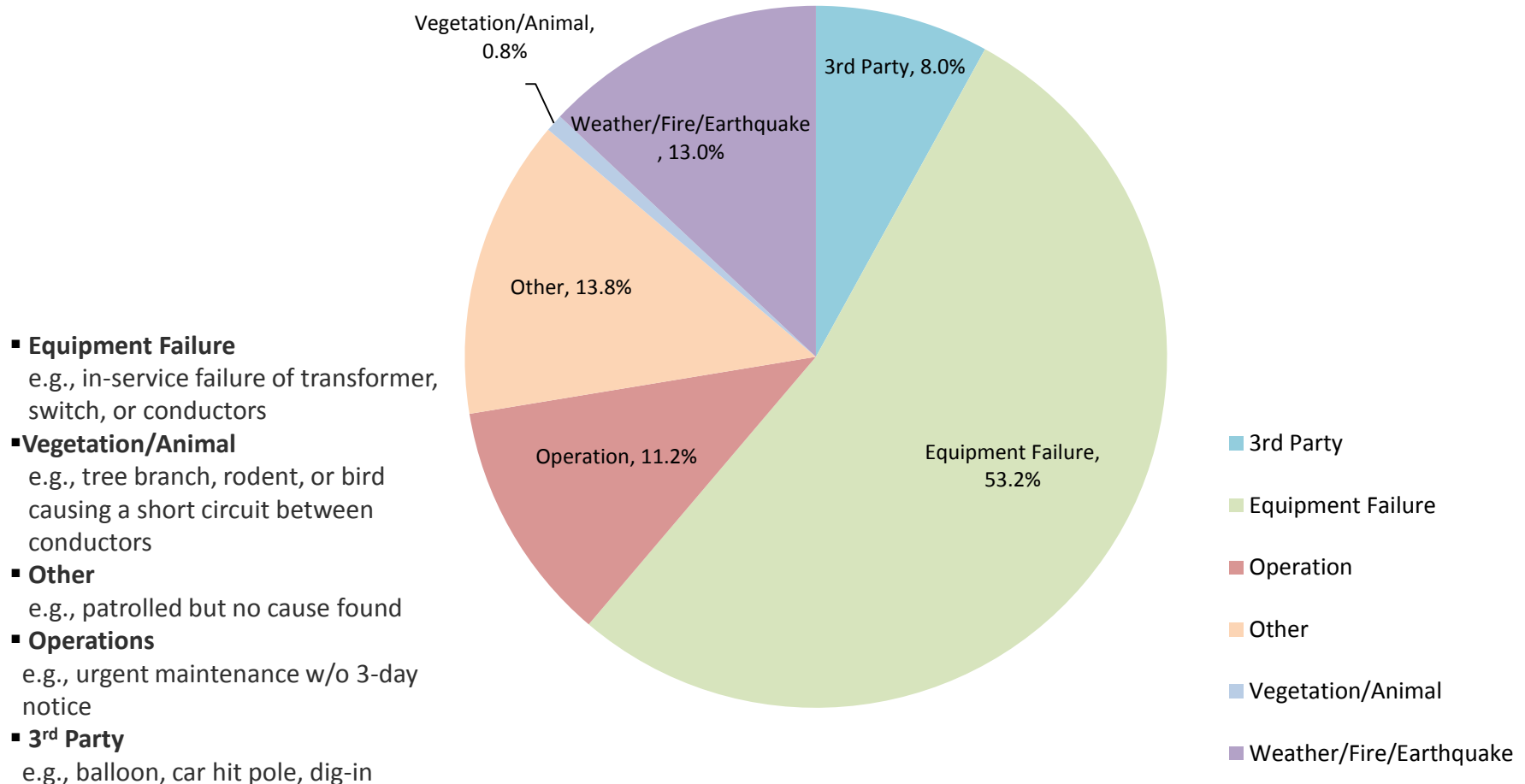
Circuit Type	Sum of Customers	Circuit Type	Sum of Customers	Circuit Type	Sum of Customers	Circuit Type	Sum of Customers
BAYVIEW(4.16KV)	771	RAMP(12KV)	4,300				
BEGONIA(12KV)	251	REDHILL(12KV)	134				
BERTEA(12KV)	655	ROSSMOOR(12KV)	2,239				
BILLINGS(12KV)	131	SAINTS(12KV)	3,359				
CALLA(12KV)	934	SCORE(12KV)	4,187				
CHARGERS(12KV)	3,197	SCOW(12KV)	4,198				
CLOVER(12KV)	3,470	SEWELL(12KV)	4,080				
CORBINA(12KV)	1,892	SKYLAB(12KV)	305				
ELPAC(12KV)	32	SKYPARK(12KV)	61				
EXPLORER(12KV)	222	SOLITAIRE(12KV)	25				
FELLER(12KV)	1,579	SONICS(12KV)	3,608				
FLORES(12KV)	279	SPEAKER(12KV)	78				
GARNSEY(12KV)	1,495	STELLA(12KV)	2,678				
GEHRIG(12KV)	3,800	TERRY(12KV)	2,652				
HUMBLE(12KV)	2,390	TINKER(12KV)	2,797				
INLET(4.16KV)	602	TULIP(12KV)	2,909				
JOAQUIN(12KV)	346						
KEWAMEE(12KV)	2,068						
LAKERS(12KV)	1,682						
LYELL(12KV)	1,750						
MARIGOLD(12KV)	3,684						
MOONWALK(12KV)	3,080						
MORRISON(12KV)	3,342						
OILERS(12KV)	3,561						
PARROT(12KV)	869						
PELICAN(12KV)	106						
PENINSULA(12KV)	1,152						
PIKE(12KV)	1,796						
RADFORD(12KV)	1,862						
RAIDERS(12KV)	3,654						
Grand Total	88,262						

Reliability History of Circuits Serving Orange District 2 (No Exclusions)



Causes of Repair Outages in Orange District 2 Circuits 2016 YTD

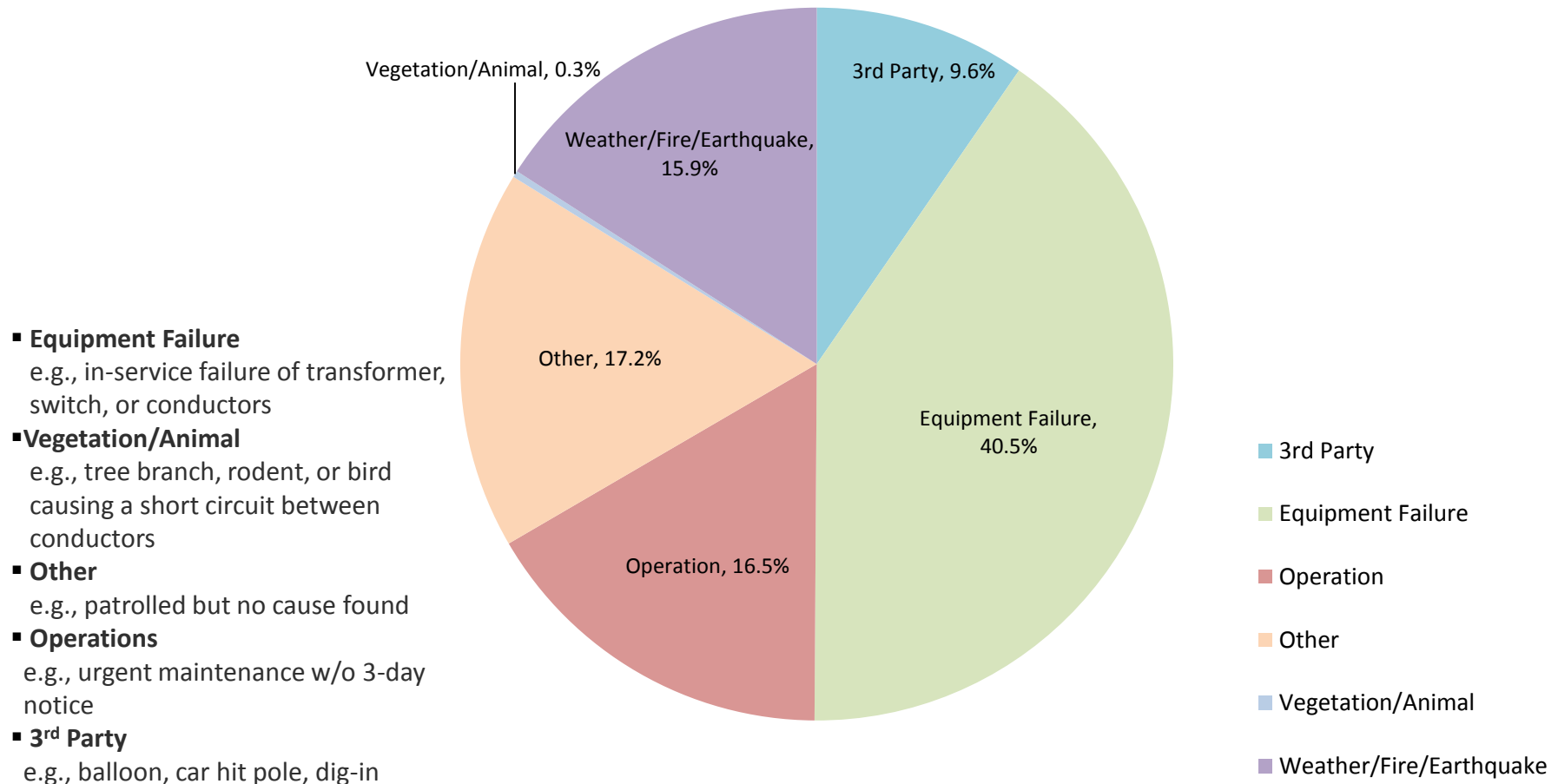
Contributions to SAIDI by Outage Cause



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

Causes of Repair Outages in Orange District 2 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 Orange District 2

Updated through Year-End 2016

Average Reliability of 46 Circuits Serving Orange District 2

	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
Orange District 2	57.1	0.5	0.5	91.5	0.7	1.0	114.2	1.1	1.3	68.4	0.6	0.3	21.8	0.1	0.3	20.1	0.1	0.4	29.3	0.2	0.2	139.5	1.1	1.3
3rd Party	37%	48%	44%	17%	32%	34%	14%	20%	24%	6%	6%	0%	2%	19%	14%	34%	37%	29%	0%	0%	35%	8%	10%	18%
Equipment Failure	55%	42%	38%	56%	35%	40%	41%	38%	27%	39%	27%	24%	81%	54%	40%	47%	51%	41%	69%	61%	0%	53%	41%	30%
Operation	3%	5%	0%	8%	11%	2%	11%	10%	3%	13%	23%	12%	5%	5%	1%	19%	11%	1%	7%	9%	0%	11%	16%	4%
Other	2%	1%	3%	3%	3%	11%	28%	27%	16%	25%	26%	17%	8%	20%	34%	0%	0%	11%	1%	0%	7%	14%	17%	18%
Vegetation/Animal	1%	1%	9%	5%	11%	7%	1%	0%	7%	0%	0%	0%	4%	2%	12%	1%	0%	11%	0%	0%	31%	1%	0%	11%
Weather/Fire/Earthquake	2%	3%	5%	12%	8%	6%	6%	5%	23%	17%	18%	47%	0%	0%	0%	0%	0%	8%	23%	29%	28%	13%	16%	19%
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 Orange District 2

	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
BAYVIEW(4.16KV) - Customers: 771	7.27	0.02	-	99.74	0.27	2.47	-	-	1.00	25.74	0.02	-	-	-	-	-	-	-	0.45	0.02	-	26.19	0.04	-
3rd Party	-	-	-	-	-	30%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	100%	100%	-	-	-	-	-	-	-	100%	100%	-	-	-	-	-	-	-	-	-	-	98%	52%	-
Operation	-	-	-	100%	100%	70%	-	-	-	-	-	-	-	-	-	-	-	-	100%	100%	-	2%	48%	-
Other	-	-	-	-	-	-	-	-	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BEGONIA(12KV) - Customers: 251	136.14	1.98	2.01	202.59	1.01	-	305.65	3.12	1.67	189.48	1.01	-	2.08	0.00	1.00	-	-	-	-	-	-	191.56	1.01	1.00
3rd Party	-	-	50%	-	-	-	-	-	-	100%	100%	-	-	-	-	-	-	-	-	-	-	99%	100%	-
Equipment Failure	100%	100%	-	100%	100%	-	39%	64%	-	-	-	-	100%	100%	100%	-	-	-	-	-	-	1%	0%	100%
Operation	-	-	-	-	-	-	46%	30%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	50%	-	-	-	15%	5%	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BERTEA(12KV) - Customers: 655	72.21	0.76	1.00	135.63	3.05	0.98	-	-	1.00	-	-	-	6.97	1.00	-	-	-	-	-	-	-	6.97	1.00	-
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	100%	100%	-	100%	100%	100%	-	-	-	-	-	-	100%	100%	-	-	-	-	-	-	-	100%	100%	-
Operation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	100%	-	-	-	-	-	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BILLINGS(12KV) - Customers: 131	41.35	0.24	2.00	0.10	0.00	-	383.37	2.15	2.64	-	-	-	7.30	0.02	0.66	47.10	0.66	-	-	-	-	54.41	0.68	0.66
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	71%	48%	-	-	-	-	91%	93%	100%	-	-	-	100%	100%	100%	100%	100%	-	-	-	-	100%	100%	100%
Operation	29%	52%	-	100%	100%	-	9%	7%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reliability Histories for Individual Circuits Serving Orange District 2

	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
CALLA(12KV) - Customers: 934	97.07	1.14	-	350.07	3.44	0.99	43.67	0.14	4.99	0.87	0.01	-	11.98	1.16	1.16	-	-	1.16	-	-	-	12.85	1.17	2.32
3rd Party	44%	11%	-	45%	59%	99%	-	-	20%	-	-	-	87%	100%	100%	-	-	-	-	-	-	81%	99%	50%
Equipment Failure	53%	89%	-	26%	7%	1%	57%	35%	20%	-	-	-	-	-	-	-	-	100%	-	-	-	-	-	50%
Operation	3%	1%	-	13%	29%	-	11%	20%	-	100%	100%	-	-	-	-	-	-	-	-	-	-	7%	1%	-
Other	-	-	-	15%	4%	-	-	-	-	-	-	-	13%	0%	-	-	-	-	-	-	-	12%	0%	-
Vegetation/Animal	0%	0%	-	1%	0%	-	-	-	20%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	32%	45%	40%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHARGERS(12KV) - Customers: 3,197	9.21	0.08	-	-	-	-	150.90	1.30	1.01	-	-	-	17.49	0.08	1.00	14.47	0.03	-	3.11	0.02	-	35.06	0.12	1.00
3rd Party	-	-	-	-	-	-	31%	11%	98%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	12%	4%	-	-	-	-	20%	9%	2%	-	-	-	91%	83%	100%	97%	77%	-	53%	20%	-	90%	73%	100%
Operation	88%	96%	-	-	-	-	5%	2%	-	-	-	-	9%	17%	-	-	-	-	-	-	-	5%	11%	-
Other	-	-	-	-	-	-	44%	77%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	-	-	-	-	0%	1%	-	-	-	-	-	-	-	3%	23%	-	47%	80%	-	5%	15%	-
Weather/Fire/Earthquake	-	-	-	-	-	-	1%	1%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLOVER(12KV) - Customers: 3,470	22.57	1.05	1.00	60.17	0.51	0.81	195.47	1.85	-	5.28	0.01	-	1.43	0.00	-	-	-	1.01	12.36	0.37	-	19.06	0.39	1.01
3rd Party	60%	97%	100%	77%	59%	100%	33%	54%	-	-	-	-	-	-	-	-	-	100%	-	-	-	-	-	100%
Equipment Failure	14%	1%	-	3%	1%	-	3%	0%	-	-	-	-	100%	100%	-	-	-	-	1%	1%	-	8%	1%	-
Operation	-	-	-	20%	40%	-	62%	45%	-	100%	100%	-	-	-	-	-	-	-	99%	99%	-	92%	99%	-
Other	25%	2%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	1%	0%	-	-	-	-	3%	0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CORBINA(12KV) - Customers: 1,892	11.56	0.05	-	124.49	2.29	2.92	16.35	0.07	2.87	19.18	0.04	-	1.37	0.05	-	0.15	0.00	-	-	-	-	20.71	0.09	-
3rd Party	100%	100%	-	35%	4%	32%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	-	-	-	36%	52%	68%	33%	14%	34%	78%	74%	-	100%	100%	-	100%	100%	-	-	-	-	80%	89%	-
Operation	-	-	-	1%	1%	-	67%	86%	32%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	34%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	28%	44%	-	-	-	-	22%	26%	-	-	-	-	-	-	-	-	-	-	20%	11%	-

Reliability Histories for Individual Circuits Serving Orange District 2

	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
ELPAC(12KV) - Customers: 32	-	-	-	86.51	1.01	0.03	-	-	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	-	-	-	100%	100%	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Operation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	-	-	-	-	-	-	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EXPLORER(12KV) - Customers: 222	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Operation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FELLER(12KV) - Customers: 1,579	8.53	0.02	-	458.59	1.60	1.16	0.24	0.01	-	110.33	0.81	0.21	-	-	1.00	5.16	0.06	-	-	-	-	115.49	0.87	1.21
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100%	-	-	-	-	-	-	-	-	83%
Equipment Failure	8%	6%	-	-	-	-	-	-	-	99%	98%	100%	-	-	-	100%	100%	-	-	-	-	99%	98%	17%
Operation	-	-	-	-	-	-	100%	100%	-	1%	2%	-	-	-	-	-	-	-	-	-	-	1%	2%	-
Other	92%	94%	-	1%	1%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	-	2%	1%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	97%	98%	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FLORES(12KV) - Customers: 279	51.81	1.03	-	-	-	-	1.49	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	1%	1%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Operation	-	-	-	-	-	-	100%	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	99%	99%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reliability Histories for Individual Circuits Serving Orange District 2

	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
GARNSEY(12KV) - Customers: 1,495	128.25	1.20	-	178.05	2.03	0.87	213.33	1.16	2.04	-	-	-	1.26	0.01	-	-	-	-	-	-	-	1.26	0.01	-
3rd Party	-	-	-	26%	49%	0%	58%	22%	84%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	100%	100%	-	-	-	-	20%	12%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Operation	-	-	-	3%	2%	-	22%	66%	16%	-	-	-	100%	100%	-	-	-	-	-	-	-	100%	100%	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	71%	49%	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GEHRIG(12KV) - Customers: 3,800	45.37	1.99	-	9.73	1.00	2.00	97.20	1.08	1.06	309.63	1.58	0.98	221.17	1.04	1.93	-	-	-	54.89	1.11	0.46	585.68	3.73	3.36
3rd Party	-	-	-	-	-	-	-	-	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	87%	56%	-	-	-	50%	4%	1%	-	88%	63%	-	99%	96%	100%	-	-	-	47%	50%	-	88%	68%	57%
Operation	13%	44%	-	-	-	-	-	-	-	4%	35%	100%	1%	4%	-	-	-	-	-	-	-	3%	16%	29%
Other	-	-	-	100%	100%	50%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	-	-	-	-	0%	1%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	96%	99%	-	8%	1%	-	-	-	-	-	-	-	53%	50%	100%	9%	15%	14%
HUMBLE(12KV) - Customers: 2,390	6.62	0.04	-	13.27	0.06	-	50.45	0.73	2.28	0.53	0.00	-	-	-	-	0.37	0.00	-	5.42	0.03	-	6.32	0.03	-
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	-	-	-	17%	15%	-	94%	93%	57%	100%	100%	-	-	-	-	100%	100%	-	100%	100%	-	100%	100%	-
Operation	100%	100%	-	22%	67%	-	3%	5%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	61%	18%	-	3%	3%	43%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
INLET(4.16KV) - Customers: 602	55.10	0.08	1.97	982.94	2.28	1.00	21.52	0.13	1.05	66.54	1.02	-	-	-	-	-	-	-	-	-	-	66.54	1.02	-
3rd Party	-	-	51%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	-	-	-	93%	78%	100%	84%	37%	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Operation	-	-	-	7%	22%	-	16%	63%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	100%	100%	49%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	100%	100%	-	-	-	-	-	-	-	-	-	-	100%	100%	-

Reliability Histories for Individual Circuits Serving Orange District 2

	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
JOAQUIN(12KV) - Customers: 346	28.16	1.01	-	-	-	1.00	22.68	1.03	0.98	248.63	1.17	3.50	175.11	1.63	4.28	284.94	1.10	1.35	-	-	-	708.68	3.89	9.13
3rd Party	-	-	-	-	-	100%	44%	98%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	100%	100%	-	-	-	-	56%	2%	100%	100%	100%	67%	100%	100%	33%	88%	72%	52%	-	-	-	95%	92%	49%
Operation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12%	23%	-	-	-	-	5%	6%	-
Other	-	-	-	-	-	-	-	-	-	-	-	33%	-	-	67%	0%	6%	48%	-	-	-	0%	2%	51%
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KEWAMEE(12KV) - Customers: 2,068	62.00	0.06	0.08	28.93	0.14	0.15	11.17	0.09	1.00	2.03	0.00	-	6.70	0.03	-	71.65	0.15	-	-	-	-	80.37	0.19	-
3rd Party	-	-	5%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	100%	100%	-	100%	100%	100%	100%	100%	-	100%	100%	-	-	-	-	100%	100%	-	-	-	-	92%	85%	-
Operation	-	-	95%	-	-	-	-	-	-	-	-	-	100%	100%	-	-	-	-	-	-	-	8%	15%	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	-	-	-	-	-	-	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LAKERS(12KV) - Customers: 1,682	14.04	0.12	-	35.71	0.15	0.97	101.14	0.97	0.21	43.12	1.08	-	-	-	-	2.78	0.03	-	-	-	-	45.90	1.11	-
3rd Party	-	-	-	37%	19%	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	91%	95%	-	45%	20%	-	92%	93%	100%	65%	7%	-	-	-	-	-	-	-	-	-	-	61%	7%	-
Operation	9%	5%	-	19%	61%	-	8%	7%	-	-	-	-	-	-	-	100%	100%	-	-	-	-	6%	3%	-
Other	-	-	-	-	-	-	-	-	-	35%	93%	-	-	-	-	-	-	-	-	-	-	33%	90%	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LYELL(12KV) - Customers: 1,750	114.24	1.04	0.24	61.68	0.21	2.22	23.98	0.04	-	12.57	1.00	0.99	-	-	-	32.20	0.10	-	7.11	0.02	1.00	51.88	1.12	1.99
3rd Party	64%	74%	100%	-	-	45%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	35%	20%	-	100%	100%	55%	100%	100%	-	100%	100%	100%	-	-	-	100%	100%	-	-	-	-	86%	99%	50%
Operation	1%	6%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100%	100%	-	14%	1%	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100%	-	-	50%	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reliability Histories for Individual Circuits Serving Orange District 2

	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
MARIGOLD(12KV) - Customers: 3,684	306.30	1.08	-	17.75	0.10	0.99	312.43	2.18	-	5.99	0.01	0.75	48.32	0.17	-	-	-	1.09	1.88	0.00	-	56.19	0.19	1.83
3rd Party	97%	97%	-	18%	58%	100%	42%	47%	-	-	-	-	4%	11%	-	-	-	-	-	-	-	4%	10%	-
Equipment Failure	1%	1%	-	11%	3%	-	56%	51%	-	-	-	-	96%	87%	-	-	-	100%	100%	100%	-	86%	81%	59%
Operation	-	-	-	54%	12%	-	3%	2%	-	-	-	-	0%	2%	-	-	-	-	-	-	-	0%	2%	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	3%	2%	-	17%	27%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	100%	100%	100%	-	-	-	-	-	-	-	-	-	11%	7%	41%
MOONWALK(12KV) - Customers: 3,080	3.04	0.01	-	167.04	3.32	2.01	35.64	0.95	1.75	12.61	0.10	-	-	-	-	4.04	0.01	0.01	1.16	0.02	1.00	17.81	0.13	1.01
3rd Party	-	-	-	49%	60%	49%	-	-	-	17%	18%	-	-	-	-	-	-	-	-	-	100%	12%	15%	99%
Equipment Failure	76%	26%	-	46%	31%	38%	40%	90%	100%	-	-	-	-	-	-	100%	100%	100%	-	-	-	23%	6%	1%
Operation	-	-	-	4%	8%	13%	40%	8%	-	-	-	-	-	-	-	-	-	-	100%	100%	-	7%	13%	-
Other	-	-	-	1%	0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	24%	74%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	20%	2%	-	83%	82%	-	-	-	-	-	-	-	-	-	-	59%	66%	-
MORRISON(12KV) - Customers: 3,342	148.04	1.54	2.13	264.78	1.05	2.94	104.41	1.55	0.76	132.39	2.47	-	43.60	0.04	0.01	-	-	-	5.33	0.02	1.00	181.32	2.53	1.01
3rd Party	30%	29%	100%	-	-	67%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	70%	71%	-	89%	96%	-	99%	98%	100%	2%	0%	-	100%	100%	100%	-	-	-	93%	82%	-	28%	3%	1%
Operation	-	-	-	6%	2%	-	1%	2%	-	19%	41%	-	-	-	-	-	-	-	7%	18%	-	14%	40%	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100%	-	-	99%
Weather/Fire/Earthquake	-	-	-	5%	2%	33%	-	-	-	79%	59%	-	-	-	-	-	-	-	-	-	-	58%	58%	-
OILERS(12KV) - Customers: 3,561	8.89	0.03	-	22.69	0.11	-	88.89	2.02	0.00	0.59	0.00	-	-	-	-	1.11	0.01	-	136.23	0.86	-	137.93	0.87	-
3rd Party	-	-	-	-	-	-	18%	50%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	68%	47%	-	97%	95%	-	8%	1%	-	100%	100%	-	-	-	-	44%	13%	-	83%	91%	-	83%	90%	-
Operation	32%	53%	-	3%	5%	-	1%	1%	100%	-	-	-	-	-	-	56%	88%	-	-	-	-	0%	1%	-
Other	-	-	-	-	-	-	73%	49%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17%	9%	-	17%	9%	-

Reliability Histories for Individual Circuits Serving Orange District 2

	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
PARROT(12KV) - Customers: 869	-	-	1.00	195.13	2.01	0.99	107.03	1.05	0.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	-	-	100%	100%	100%	100%	92%	99%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Operation	-	-	-	-	-	-	8%	1%	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PELICAN(12KV) - Customers: 106	-	-	0.97	-	-	-	-	-	-	-	-	-	-	-	-	0.32	0.06	-	185.21	1.01	-	185.53	1.07	-
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	-	-	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Operation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100%	100%	-	100%	100%	-	100%	100%	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PENINSULA(12KV) - Customers: 1,152	-	-	-	-	-	-	9.38	0.02	1.01	-	-	-	-	-	-	-	-	-	-	-	1.01	-	-	1.01
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Operation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	100%	100%	-	-	-	-	-	-	-	-	-	-	-	100%	-	-	100%	-
Vegetation/Animal	-	-	-	-	-	-	-	-	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PIKE(12KV) - Customers: 1,796	5.55	0.04	-	43.68	0.09	1.93	5.99	0.06	0.99	233.10	1.00	-	-	-	-	-	-	-	-	-	-	233.10	1.00	-
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	-	-	-	100%	100%	100%	-	-	100%	75%	12%	-	-	-	-	-	-	-	-	-	-	75%	12%	-
Operation	100%	100%	-	-	-	-	32%	76%	-	1%	1%	-	-	-	-	-	-	-	-	-	-	1%	1%	-
Other	-	-	-	-	-	-	68%	24%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	24%	87%	-	-	-	-	-	-	-	-	-	-	24%	87%	-

Reliability Histories for Individual Circuits Serving Orange District 2

	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
RADFORD(12KV) - Customers: 1,862	99.13	1.03	1.00	105.50	0.18	1.00	30.15	0.08	2.39	7.98	0.04	-	113.84	0.37	-	133.24	1.81	3.62	34.22	0.04	-	289.28	2.26	3.62
3rd Party	-	-	-	35%	58%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	98%	97%	100%	65%	42%	-	95%	92%	100%	73%	82%	-	100%	100%	-	100%	100%	100%	-	-	-	87%	98%	100%
Operation	2%	3%	-	-	-	-	5%	8%	-	27%	18%	-	-	-	-	-	-	-	100%	100%	-	13%	2%	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	-	-	-	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAIDERS(12KV) - Customers: 3,654	40.54	0.41	0.62	8.34	0.05	-	121.93	1.24	2.11	29.33	1.00	0.91	1.38	0.01	-	2.85	0.03	-	-	-	-	33.56	1.03	0.91
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	37%	4%	-	76%	14%	-	9%	2%	-	-	-	-	-	-	-	97%	87%	-	-	-	-	8%	2%	-
Operation	1%	3%	-	3%	27%	-	1%	1%	-	25%	92%	-	100%	100%	-	3%	13%	-	-	-	-	26%	90%	-
Other	-	-	-	-	-	-	60%	89%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	-	20%	59%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	62%	93%	100%	-	-	-	31%	9%	100%	75%	8%	100%	-	-	-	-	-	-	-	-	-	66%	8%	100%
RAMP(12KV) - Customers: 4,300	54.96	0.10	-	26.67	0.03	-	428.97	1.90	0.61	105.51	0.42	0.99	-	-	0.98	3.25	0.01	0.97	3.00	0.04	-	111.76	0.46	2.94
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	91%	68%	-	98%	76%	-	13%	26%	-	13%	17%	-	-	-	-	-	-	-	100%	100%	-	15%	24%	-
Operation	-	-	-	2%	24%	-	5%	2%	-	87%	83%	-	-	-	-	-	-	-	-	-	-	82%	75%	-
Other	9%	32%	-	-	-	-	81%	68%	100%	-	-	100%	-	-	100%	-	-	-	-	-	-	-	-	67%
Vegetation/Animal	-	-	-	-	-	-	1%	4%	-	-	-	-	-	-	-	100%	100%	100%	-	-	-	3%	1%	33%
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
REDHILL(12KV) - Customers: 134	-	-	-	0.36	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Operation	-	-	-	100%	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reliability Histories for Individual Circuits Serving Orange District 2

	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
ROSSMOOR(12KV) - Customers: 2,239	86.77	1.00	-	2.39	0.02	1.01	37.65	0.10	-	105.03	1.05	-	-	-	-	1.53	0.01	-	-	-	-	106.56	1.06	-
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	100%	100%	-	52%	65%	1%	7%	5%	-	100%	100%	-	-	-	-	-	-	-	-	-	-	99%	99%	-
Operation	-	-	-	48%	35%	-	93%	95%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100%	100%	-	-	-	-	1%	1%	-
Vegetation/Animal	-	-	-	-	-	99%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAINTS(12KV) - Customers: 3,359	8.89	0.03	0.98	141.15	1.00	-	152.72	1.15	1.91	-	-	-	13.40	0.11	-	-	-	-	28.08	0.04	-	41.48	0.14	-
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	100%	100%	100%	99%	99%	-	26%	2%	-	-	-	-	-	-	-	-	-	-	100%	100%	-	68%	26%	-
Operation	-	-	-	-	-	-	17%	5%	-	-	-	-	100%	100%	-	-	-	-	-	-	-	32%	74%	-
Other	-	-	-	1%	1%	-	56%	93%	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCORE(12KV) - Customers: 4,187	0.92	0.01	-	62.13	1.02	3.98	48.08	0.74	1.02	53.27	0.53	0.77	1.63	0.01	1.00	64.17	0.14	0.07	203.23	1.99	0.06	322.29	2.68	1.89
3rd Party	-	-	-	-	-	-	9%	1%	-	-	-	-	49%	10%	-	-	-	-	-	-	-	0%	0%	-
Equipment Failure	-	-	-	14%	1%	50%	62%	73%	-	0%	0%	-	11%	42%	-	-	-	-	48%	51%	-	30%	38%	-
Operation	26%	67%	-	2%	1%	-	29%	26%	2%	-	-	-	40%	48%	-	100%	100%	100%	4%	2%	-	22%	7%	4%
Other	-	-	-	-	-	50%	-	-	98%	-	-	-	-	-	100%	-	-	-	-	-	-	-	-	53%
Vegetation/Animal	-	-	-	84%	98%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	74%	33%	-	-	-	-	-	-	-	100%	100%	100%	-	-	-	-	-	-	49%	47%	100%	47%	55%	44%
SCOW(12KV) - Customers: 4,198	111.61	0.25	0.18	121.81	0.20	1.00	15.04	0.08	-	86.31	2.15	1.01	0.47	0.00	-	61.57	0.16	0.88	0.87	0.01	-	149.22	2.31	1.89
3rd Party	-	-	-	-	-	-	7%	16%	-	-	-	-	-	-	-	98%	70%	100%	-	-	-	40%	5%	47%
Equipment Failure	100%	100%	100%	91%	49%	-	93%	84%	-	71%	53%	100%	100%	100%	-	-	-	-	-	-	-	41%	49%	53%
Operation	-	-	-	9%	51%	-	-	-	-	-	-	-	-	-	-	2%	30%	-	100%	100%	-	2%	2%	-
Other	-	-	-	-	-	-	-	-	-	29%	47%	-	-	-	-	-	-	-	-	-	-	17%	44%	-
Vegetation/Animal	-	-	-	-	-	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reliability Histories for Individual Circuits Serving Orange District 2

	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	
SEWELL(12KV) - Customers: 4,080	73.87	0.10	2.00	121.70	1.25	2.51	152.32	2.03	2.78	320.21	1.31	-	-	-	-	11.81	0.04	-	-	-	-	332.02	1.35	-	
3rd Party	-	-	-	34%	80%	20%	7%	49%	36%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Equipment Failure	93%	71%	100%	66%	20%	80%	62%	27%	28%	-	-	-	-	-	-	30%	58%	-	-	-	-	1%	2%	-	
Operation	7%	29%	-	0%	0%	-	0%	0%	-	-	-	-	-	-	-	70%	42%	-	-	-	-	3%	1%	-	
Other	-	-	-	-	-	-	31%	24%	36%	100%	100%	-	-	-	-	-	-	-	-	-	-	96%	97%	-	
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SKYLAB(12KV) - Customers: 305	-	-	-	-	-	-	133.63	2.04	-	23.61	0.04	1.00	-	-	1.00	-	-	-	124.53	1.00	-	148.14	1.04	2.00	
3rd Party	-	-	-	-	-	-	59%	51%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Equipment Failure	-	-	-	-	-	-	41%	49%	-	-	-	-	-	-	-	-	-	-	100%	100%	-	84%	96%	-	
Operation	-	-	-	-	-	-	-	-	-	100%	100%	-	-	-	100%	-	-	-	-	-	-	16%	4%	50%	
Other	-	-	-	-	-	-	-	-	-	-	-	100%	-	-	-	-	-	-	-	-	-	-	-	50%	
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SKYPARK(12KV) - Customers: 61	-	-	-	-	-	-	-	-	-	-	-	-	170.49	1.03	1.72	-	-	-	-	-	-	-	170.49	1.03	1.72
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Equipment Failure	-	-	-	-	-	-	-	-	-	-	-	-	100%	100%	40%	-	-	-	-	-	-	100%	100%	40%	
Operation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60%	-	-	-	-	-	-	-	-	60%	
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SOLITAIRE(12KV) - Customers: 25	-	-	0.99	-	-	-	-	-	1.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3rd Party	-	-	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Equipment Failure	-	-	-	-	-	-	-	-	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Operation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Reliability Histories for Individual Circuits Serving Orange District 2

	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
SONICS(12KV) - Customers: 3,608	165.48	2.61	1.73	28.77	0.10	-	82.05	1.05	1.00	32.44	1.01	-	69.95	0.81	0.94	#####	1.01	1.90	65.70	0.15	-	271.46	2.99	2.84
3rd Party	79%	87%	100%	-	-	-	-	-	100%	-	-	-	-	-	-	94%	99%	48%	-	-	-	36%	33%	32%
Equipment Failure	16%	7%	-	29%	54%	-	82%	98%	-	10%	1%	-	8%	3%	-	6%	1%	-	100%	98%	-	30%	7%	-
Operation	5%	6%	-	71%	46%	-	18%	2%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	90%	99%	-	61%	89%	-	-	-	52%	0%	2%	-	27%	58%	35%
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	31%	8%	100%	-	-	-	-	-	-	8%	2%	33%
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPEAKER(12KV) - Customers: 78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.21	0.12	-	20.21	0.12	-
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Operation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100%	100%	-	100%	100%	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STELLA(12KV) - Customers: 2,678	38.90	0.19	-	59.25	1.06	-	203.72	3.09	2.00	81.70	1.03	-	-	-	-	29.49	0.04	-	174.66	1.00	1.00	285.84	2.06	1.00
3rd Party	-	-	-	23%	8%	-	4%	32%	50%	-	-	-	-	-	-	-	-	-	-	-	100%	-	-	100%
Equipment Failure	97%	97%	-	-	-	-	74%	32%	50%	20%	3%	-	-	-	-	93%	53%	-	100%	100%	-	77%	51%	-
Operation	3%	3%	-	3%	1%	-	9%	3%	-	80%	97%	-	-	-	-	7%	47%	-	-	-	-	23%	49%	-
Other	-	-	-	-	-	-	13%	32%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	-	74%	91%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TERRY(12KV) - Customers: 2,652	65.10	0.19	-	85.99	0.11	-	104.32	1.07	2.78	1.19	0.00	2.00	-	-	-	0.07	0.00	-	4.65	0.01	0.99	5.91	0.02	2.99
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	100%	100%	-	99%	99%	-	72%	9%	-	100%	100%	-	-	-	-	-	-	-	96%	65%	-	95%	57%	-
Operation	-	-	-	1%	1%	-	8%	88%	-	-	-	-	-	-	-	100%	100%	-	4%	35%	-	5%	43%	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	21%	3%	100%	-	-	100%	-	-	-	-	-	-	-	-	100%	-	-	100%

Reliability Histories for Individual Circuits Serving Orange District 2

	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
TINKER(12KV) - Customers: 2,797	21.68	0.04	1.99	5.61	0.04	1.00	179.50	2.11	-	33.46	0.04	-	-	-	-	-	-	1.00	-	-	-	33.46	0.04	1.00
3rd Party	-	-	-	9%	2%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	100%	100%	50%	22%	7%	100%	100%	100%	-	16%	53%	-	-	-	-	-	-	-	-	-	-	16%	53%	-
Operation	-	-	-	70%	92%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	50%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	84%	47%	-	-	-	-	-	-	100%	-	-	-	84%	47%	100%
TULIP(12KV) - Customers: 2,909	37.99	0.95	-	11.65	0.01	0.99	174.75	0.53	2.89	105.96	1.00	-	6.49	0.01	-	0.32	0.00	-	3.78	0.04	-	116.55	1.05	-
3rd Party	74%	97%	-	-	-	100%	89%	94%	84%	100%	100%	-	-	-	-	-	-	-	-	-	-	91%	95%	-
Equipment Failure	2%	1%	-	96%	76%	-	8%	2%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Operation	2%	1%	-	4%	24%	-	3%	4%	16%	-	-	-	100%	100%	-	100%	100%	-	100%	100%	-	9%	5%	-
Other	22%	2%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-