

Circuit Reliability Review La Habra Heights

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

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 Fullerton District

Anaheim

Brea

Buena Park

Cypress

East La Mirada

Fullerton

Hacienda Heights

La Habra

La Habra Heights

La Mirada

La Palma

Placentia

Rowland Heights

Stanton

Yorba Linda

Reliability by SCE District (No Exclusions)

		20	12			20:	13			20	14			20	15		2016					
	District	SAIDI	District	SAIFI																		
District Name	SAIDI	RANKING	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			

^{*&}quot;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.

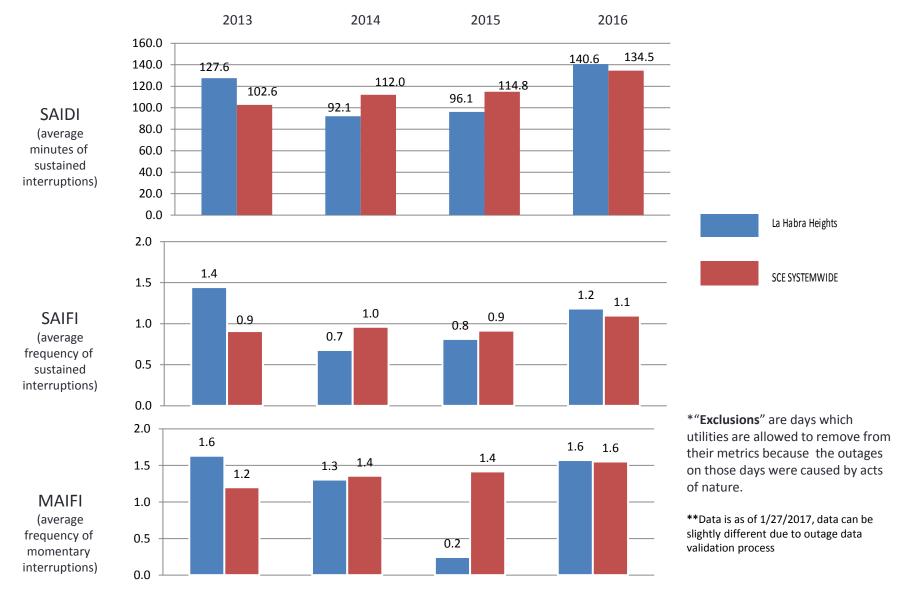
^{**}In the columns showing "Rank," lower numbers indicate poorer performance.

Overview of La Habra Heights There are 9 circuits that serve La Habra Heights

Circuit Type	Sum of Customers	Circuit Type	Sum of Customers	Circuit Type	Sum of Customers	Circuit Type	Sum of Customers
COLFAX(12KV)	2,313						
FIELDGATE(12KV)	2,337						
HACKBERRY(12KV)	2,031						
IDAHO(12KV)	2,495						
KILKENNY(12KV)	2,357						
OMEGA(12KV)	1,743						
SOCRATES(12KV)	1,682						
TWISTER(12KV)	1,739						
WHIPSTOCK(12KV)	908						

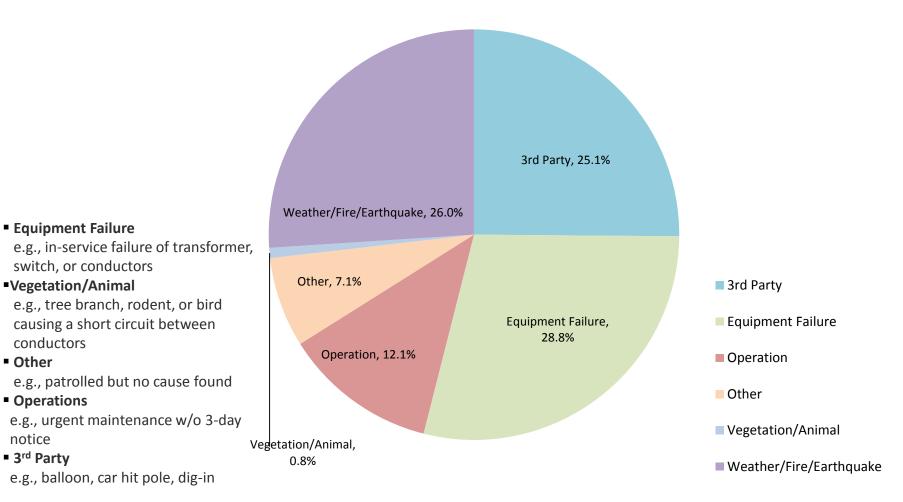
Grand Total 17,605

Reliability History of Circuits Serving La Habra Heights (No Exclusions



Causes of Repair Outages in La Habra Heights Circuits 2016 YTD

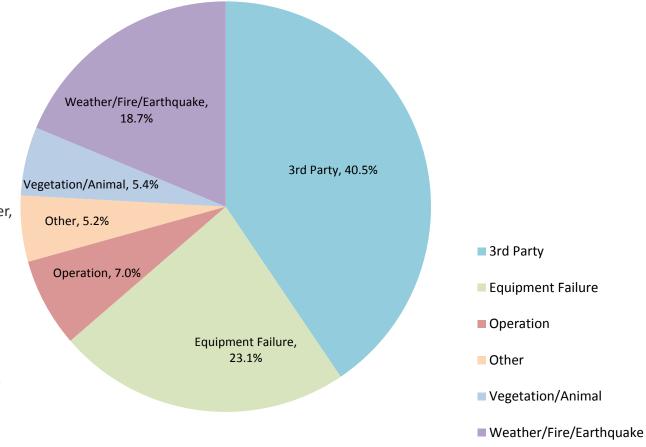
Contributions to SAIDI by Outage Cause



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

Causes of Repair Outages in La Habra Heights Circuits 2016 YTD

Contributions to SAIFI 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

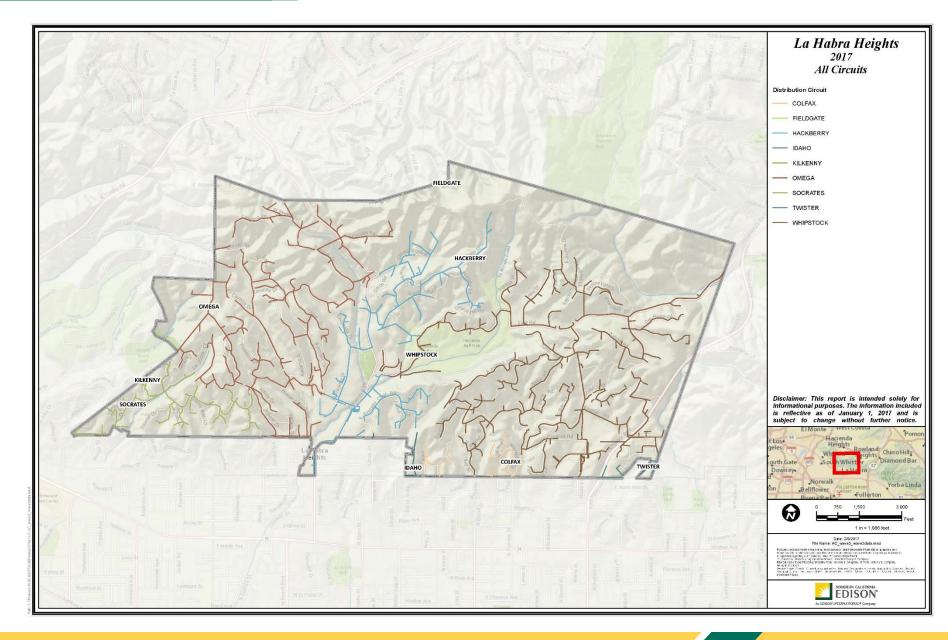
Operations

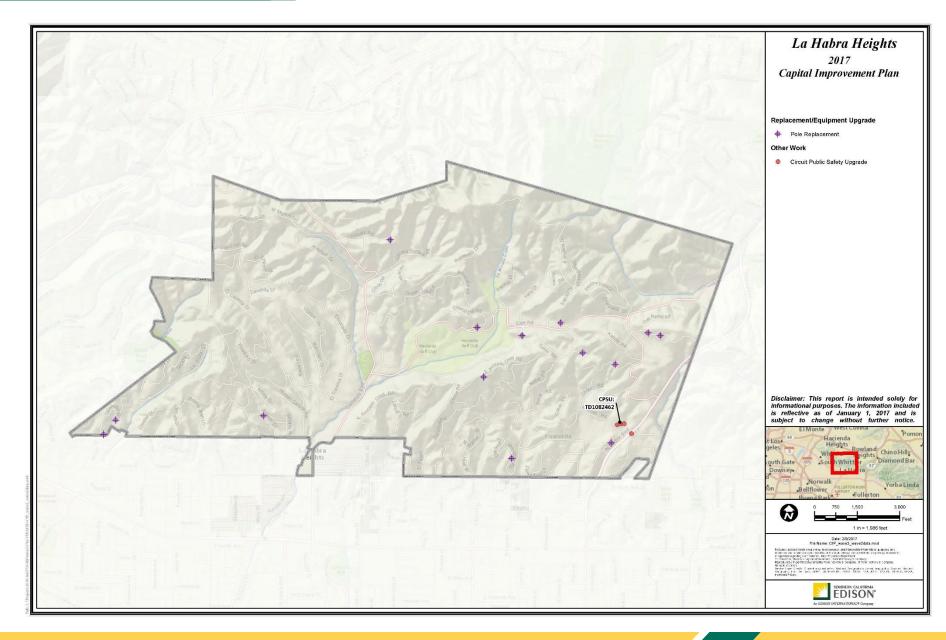
e.g., urgent maintenance w/o 3-day notice

■ 3rd Party

e.g., balloon, car hit pole, dig-in

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





Back-up Slides

Reliability Histories of Circuits Serving La Habra Heights

Updated through Year-End 2016

Average Reliability of 9 Circuits Serving La Habra Heights

		2013			2014			2015		1st	Qtr 20	16	2nd	l Qtr 2	016	3rd	Qtr 2	016	4th	Qtr 20	016		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
La Habra Heights	127.6	1.4	1.6	92.1	0.7	1.3	96.1	0.8	0.2	37.5	0.3	0.4	35.4	0.3	0.5	25.3	0.3	0.2	42.4	0.3	0.6	140.6	1.2	1.6
3rd Party	11%	18%	12%	11%	8%	17%	28%	21%	66%	2%	28%	47%	0%	0%	22%	61%	70%	93%	45%	59%	16%	25%	41%	34%
Equipment Failure	60%	40%	47%	59%	56%	53%	56%	41%	21%	3%	1%	0%	30%	53%	8%	35%	8%	0%	47%	31%	40%	29%	23%	16%
Operation	18%	26%	9%	8%	4%	0%	10%	22%	0%	2%	2%	0%	41%	24%	45%	0%	1%	0%	3%	3%	0%	12%	7%	13%
Other	0%	2%	6%	12%	13%	21%	4%	14%	7%	0%	0%	0%	28%	23%	26%	0%	0%	0%	0%	0%	18%	7%	5%	14%
Vegetation/Animal	9%	15%	26%	2%	2%	4%	1%	2%	6%	0%	0%	37%	0%	0%	0%	3%	20%	0%	1%	3%	26%	1%	5%	18%
Weather/Fire/Earthquake	1%	0%	0%	8%	18%	6%	0%	0%	0%	93%	68%	16%	0%	0%	0%	0%	0%	7%	4%	4%	0%	26%	19%	5%
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 La Habra Heights

		2013			2014			2015		1st	Qtr 20	16	2nd	d Qtr 20	016	3ra	Qtr 20.	16	4th	Qtr 20	16		2016	
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI I	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI
COLFAX(12KV) - Customers: 2,313	19.0	1.6	0.5	30.1	0.1	0.0	0.0	0.0	0.0	66.6	0.5	1.5	0.1	0.0	0.0	8.7	0.0	0.0	0.0	0.0	0.0	75.3	0.6	1.5
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	68%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	68%
Equipment Failure	3%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	11%	4%	0%
Operation	97%	100%	100%	0%	0%	0%	0%	0%	0%	0%	1%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	1%	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%	100%	99%	32%	0%	0%	0%	0%	0%	0%	0%	0%	0%	88%	95%	32%
FIELDGATE(12KV) - Customers: 2,337	229.6	2.0	2.6	11.0	0.0	2.0	238.6	1.6	0.0	189.1	1.0	0.0	71.9	1.0	0.3	0.0	0.0	0.0	131.2	0.7	1.7	392.3	2.7	2.0
3rd Party	29%	54%	0%	0%	0%	0%	1%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	83%	96%	41%	28%	24%	35%
Equipment Failure	29%	7%	76%	100%	100%	0%	81%	77%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	17%	4%	59%	24%	39%	65%
Operation	42%	39%	24%	0%	0%	0%	18%	21%	0%	1%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	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%	99%	98%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	48%	37%	0%
HACKBERRY(12KV) - Customers: 2,031	26.1	0.3	0.6	58.6	0.4	2.0	21.8	1.1	0.0	1.6	0.0	0.0	10.1	0.0	1.0	0.0	0.0	0.0	40.2	1.0	0.0	51.9	1.0	1.0
3rd Party	0%	0%	0%	10%	4%	100%	18%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	77%	96%	0%
Equipment Failure	0%	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	20%	2%	0%
Operation	45%	25%	0%	0%	1%	0%	82%	93%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	12%	59%	67%	70%	68%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
Vegetation/Animal	43%	16%	33%	19%	27%	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%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	3%	3%	0%
IDAHO(12KV) - Customers: 2,495	13.3	0.0	1.0	0.0	0.0	0.0	26.1	0.1	0.0	0.9	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	27.0	0.3	1.6	27.9	0.3	2.6
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	81%	93%	0%	0%	0%	0%	0%	0%	0%	3%	3%	0%	6%	7%	0%
Equipment Failure	100%	100%	100%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	91%	95%	39%	88%	91%	24%
Operation	0%	0%	0%	0%	0%	0%	0%	0%	0%	19%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	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%	100%	0%	0%	0%	0%	0%	0%	6%	2%	61%	6%	2%	76%
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 La Habra Heights

	2013				2014			2015		1st	Qtr 202	16	2na	Qtr 20	16	3rd	Qtr 20	016	4th	Qtr 20	16		2016	
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI I	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI
KILKENNY(12KV) - Customers: 2,357	412.7	2.5	3.1	325.4	2.5	5.3	140.3	1.5	0.5	9.9	0.0	0.0	179.2	0.8	1.5	70.5	0.1	0.9	4.5	0.1	0.0	264.1	1.1	2.5
3rd Party	0%	0%	0%	2%	3%	0%	60%	33%	100%	0%	0%	0%	0%	0%	0%	67%	61%	100%	0%	0%	0%	18%	7%	38%
Equipment Failure	88%	90%	67%	94%	94%	100%	15%	5%	0%	59%	58%	0%	0%	0%	0%	32%	20%	0%	45%	22%	0%	11%	6%	0%
Operation	10%	10%	0%	0%	1%	0%	3%	2%	0%	41%	42%	0%	61%	56%	100%	1%	19%	0%	55%	78%	0%	44%	53%	62%
Other	0%	0%	0%	0%	0%	0%	23%	60%	0%	0%	0%	0%	39%	44%	0%	0%	0%	0%	0%	0%	0%	27%	35%	0%
Vegetation/Animal	0%	0%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	2%	0%	0%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
OMEGA(12KV) - Customers: 1,743	1.0	0.0	0.2	75.0	0.4	0.1	20.6	0.1	0.1	2.0	0.0	0.0	0.0	0.0	0.0	4.1	0.0	0.1	16.2	0.1	0.0	22.3	0.2	0.1
3rd Party	0%	0%	0%	71%	75%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	45%	16%	0%	0%	0%	0%	29%	8%	0%	0%	0%	0%	0%	0%	0%	55%	10%	0%	0%	0%	0%	10%	1%	0%
Operation	23%	74%	0%	14%	14%	0%	61%	85%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	9%	5%	0%
Other	0%	0%	0%	14%	11%	0%	4%	2%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	32%	11%	73%	0%	0%	0%	6%	5%	0%	0%	0%	0%	0%	0%	0%	45%	90%	0%	0%	0%	0%	8%	10%	0%
Weather/Fire/Earthquake	0%	0%	27%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	0%	73%	84%	100%
SOCRATES(12KV) - Customers: 1,682	104.6	2.2	3.1	40.2	0.1	0.0	14.4	0.0	1.1	17.0	0.9	0.0	0.0	0.0	0.0	85.9	1.4	0.0	1.2	0.1	0.0	104.1	2.4	0.0
3rd Party	0%	0%	64%	0%	0%	0%	0%	0%	90%	31%	98%	0%	0%	0%	0%	99%	99%	0%	0%	0%	0%	87%	95%	0%
Equipment Failure	94%	98%	32%	9%	7%	0%	100%	100%	0%	13%	0%	0%	0%	0%	0%	1%	0%	0%	0%	0%	0%	3%	0%	0%
Operation	0%	0%	0%	79%	51%	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%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	0%	0%	3%	11%	42%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	1%	4%	0%
Weather/Fire/Earthquake	5%	2%	0%	0%	0%	0%	0%	0%	0%	56%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	9%	0%	0%
TWISTER(12KV) - Customers: 1,739	158.8	3.2	2.0	43.7	1.0	0.0	222.4	2.0	0.0	0.0	0.0	0.0	3.2	0.0	1.0	15.1	0.1	0.0	0.5	0.0	1.0	18.8	0.1	2.0
3rd Party	28%	32%	0%	0%	0%	0%	70%	50%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	50%
Equipment Failure	1%	0%	0%	68%	4%	0%	30%	50%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	100%	100%	0%	83%	79%	0%
Operation	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	17%	21%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	50%
Vegetation/Animal	70%	68%	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%	32%	96%	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 La Habra Heights

	2013			2014			2015			1st Qtr 2016			2nd Qtr 2016			3rd Qtr 2016			4th	Qtr 20	016	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
WHIPSTOCK(12KV) - Customers: 908	182.3	1.5	2.0	416.8	2.7	2.3	271.0	1.3	1.3	0.0	0.0	1.0	16.0	0.3	0.0	92.1	2.0	0.9	270.5	1.3	0.0	378.5	3.6	1.9
3rd Party	4%	18%	0%	14%	5%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	21%	44%	100%	0%	0%	0%	5%	25%	100%
Equipment Failure	88%	72%	0%	24%	37%	0%	92%	77%	77%	0%	0%	0%	0%	0%	0%	65%	6%	0%	92%	97%	0%	82%	39%	0%
Operation	9%	10%	0%	15%	9%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	8%	3%	0%	5%	1%	0%
Other	0%	0%	50%	23%	37%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	4%	7%	0%
Vegetation/Animal	0%	0%	50%	0%	0%	43%	8%	23%	23%	0%	0%	0%	0%	0%	0%	14%	50%	0%	0%	0%	0%	3%	28%	0%
Weather/Fire/Earthquake	0%	0%	0%	23%	13%	57%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%