

Circuit Reliability Review San Jacinto

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 Menifee District

Box Springs Mountain

East Hemet

Good Hope

Hemet

Homeland

Idyllwild-Pine Cove

Juniper Flats

Lakeview

March Afb

Meadowbrook

Menifee

Moreno Valley

Mountain Center

Nuevo

Perris

Riverside

San Jacinto

Valle Vista

Winchester

Woodcrest

Reliability by SCE District (No Exclusions)

		20	12			20:	13			20	14			20	15			20	16	
	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.

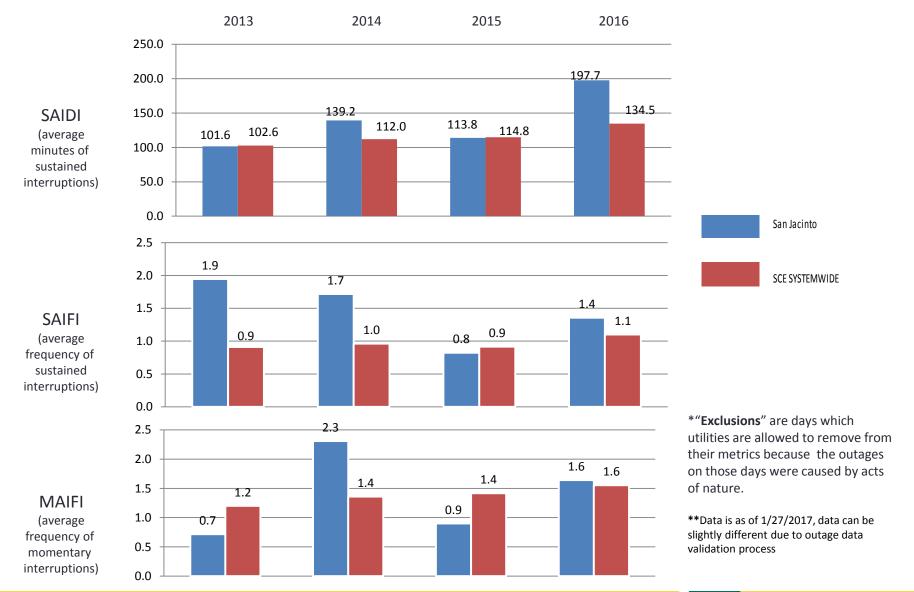
^{**}In the columns showing "Rank," lower numbers indicate poorer performance.

Overview of San Jacinto There are 18 circuits that serve San Jacinto

Circuit Type	Sum of Customers	Circuit Type	Sum of Customers	Circuit Type	Sum of Customers	Circuit Type	Sum of Customers
BISSELL(12KV)	1,177						
CHARLTON(12KV)	2,173						
DARTMOUTH(12KV)	1,326						
EASTER(12KV)	1,523						
ERIN(12KV)	1,844						
FRUITVALE(12KV)	1,654						
GILMAN(12KV)	17						
GIRARD(12KV)	1,824						
HEWITT(12KV)	461						
KADICE(12KV)	1,619						
KIRBY(12KV)	1,603						
LAUDA(33KV)	1						
LOCKNER(12KV)	1,322						
MASSACRE(12KV)	1,601						
MINOR(12KV)	1,842						
SAVORY(12KV)	1,469						
STANFORD(12KV)	1,638						
STEEL(12KV)	30						

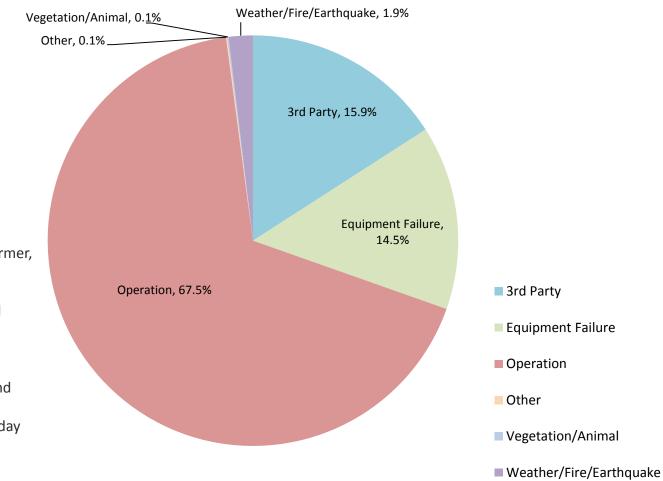
Grand Total 23,124

Reliability History of Circuits Serving San Jacinto (No Exclusions)



Causes of Repair Outages in San Jacinto 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

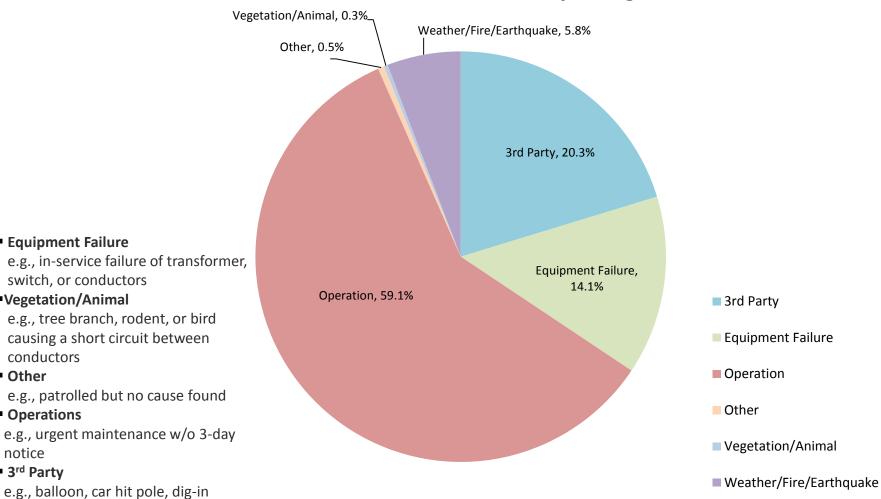
■ 3rd Party

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 Jacinto Circuits 2016

Contributions to SAIFI by Outage Cause



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

Equipment Failure

■Vegetation/Animal

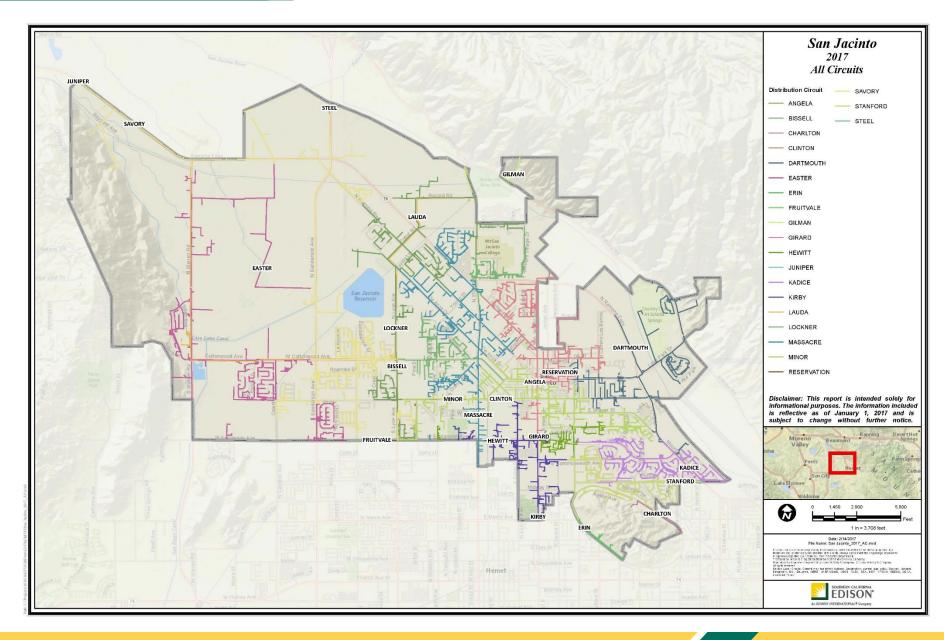
conductors

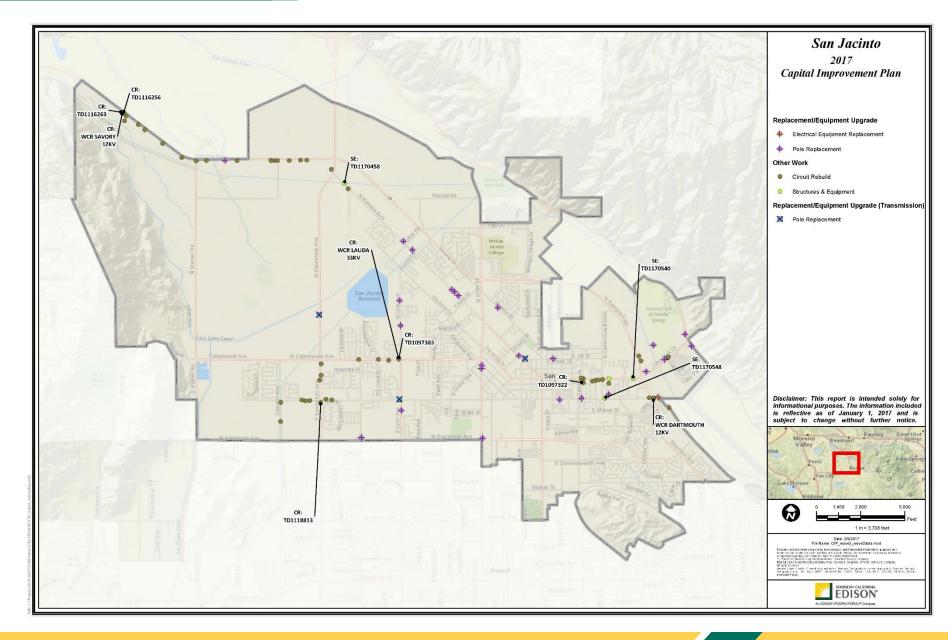
Operations

Other

notice ■ 3rd Party

switch, or conductors





Back-up Slides

Reliability Histories of Circuits Serving San Jacinto

Updated through Year-End 2016

Average Reliability of 18 Circuits Serving San Jacinto

		2013			2014			2015		1st	Qtr 20	16	2nc	l Qtr 2	016	3ra	Qtr 20	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
San Jacinto	101.6	1.9	0.7	139.2	1.7	2.3	113.8	0.8	0.9	33.3	0.3	0.4	131.6	0.5	0.5	18.9	0.4	0.7	13.8	0.2	0.0	197.7	1.4	1.6
3rd Party	41%	16%	27%	22%	19%	16%	20%	36%	25%	50%	16%	22%	0%	0%	0%	31%	30%	18%	62%	53%	94%	16%	20%	16%
Equipment Failure	20%	37%	20%	34%	19%	11%	21%	17%	15%	30%	16%	19%	3%	4%	1%	53%	25%	0%	29%	13%	0%	14%	14%	5%
Operation	17%	30%	11%	6%	9%	24%	44%	30%	13%	9%	39%	17%	96%	95%	84%	14%	43%	81%	8%	34%	0%	68%	59%	63%
Other	6%	3%	0%	10%	27%	21%	10%	7%	24%	0%	0%	29%	0%	0%	15%	1%	2%	1%	0%	0%	0%	0%	0%	12%
Vegetation/Animal	4%	2%	33%	1%	0%	8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%	0%	6%	0%	0%	0%
Weather/Fire/Earthquake	12%	12%	9%	29%	25%	20%	4%	10%	22%	11%	29%	13%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	6%	3%
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.

		2013			2014			2015		1st	Qtr 201	16	2nd	d Qtr 20	016	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
BISSELL(12KV) - Customers: 1,177	28.2	2.4	0.0	3.9	0.3	0.7	52.9	0.3	0.0	0.0	0.0	0.0	10.0	0.1	0.0	1.9	0.3	0.7	0.0	0.0	0.0	11.9	0.3	0.7
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	57%	57%	0%	0%	0%	0%	78%	41%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	84%	16%	0%
Operation	43%	43%	0%	100%	100%	100%	22%	59%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	16%	84%	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%
CHARLTON(12KV) - Customers: 2,173	14.2	0.0	1.0	81.0	2.0	1.2	8.3	0.0	0.0	0.0	0.0	0.0	442.5	1.0	1.0	27.5	0.1	0.0	0.0	0.0	0.0	470.1	1.1	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%	81%	50%	19%	100%	98%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	6%	12%	0%
Operation	0%	0%	0%	0%	1%	0%	0%	2%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	94%	88%	100%
Other	11%	29%	0%	11%	49%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	89%	71%	100%	8%	0%	81%	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%
DARTMOUTH(12KV) - Customers: 1,326	74.3	0.2	0.0	395.6	4.5	3.8	185.7	2.1	0.3	0.0	0.0	0.0	257.5	1.0	1.0	33.5	0.0	0.0	0.0	0.0	0.0	291.0	1.1	1.0
3rd Party	0%	0%	0%	57%	35%	67%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	100%	100%	0%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	12%	5%	0%
Operation	0%	0%	0%	5%	12%	0%	8%	47%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	88%	95%	100%
Other	0%	0%	0%	33%	52%	33%	72%	7%	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%	2%	0%	0%	21%	46%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
EASTER(12KV) - Customers: 1,523	358.9	5.2	2.0	298.0	1.0	3.0	161.2	2.1	0.0	0.0	0.0	0.0	22.7	0.0	0.0	4.5	0.6	0.4	42.5	0.6	0.5	69.7	1.2	0.9
3rd Party	0%	0%	0%	0%	0%	0%	81%	49%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	94%	61%	50%	48%
Equipment Failure	2%	20%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	33%	4%	0%
Operation	35%	24%	0%	0%	1%	33%	16%	50%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	6%	46%	48%
Other	24%	19%	0%	0%	0%	67%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	1%	0%	49%	0%	0%	0%	3%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	6%	0%	0%	3%
Weather/Fire/Earthquake	39%	37%	50%	100%	99%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

		2013			2014			2015		1st	Qtr 20	16	2nd	d Qtr 20	016	3rd	Qtr 20	016	4th	Qtr 20	016		2016	
	SAIDI	SAIFI I	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI
ERIN(12KV) - Customers: 1,844	12.4	0.0	0.0	100.4	2.2	0.4	39.9	0.8	0.2	1.5	0.0	0.0		1.0	1.0	0.7	0.0	0.0	0.0	0.0	0.0	452.1	1.0	1.0
3rd Party	0%	0%	0%	0%	0%	0%	87%	97%	100%	0%	0%	0%	1%	2%	0%	0%	0%	0%	0%	0%	0%	1%	2%	0%
Equipment Failure	100%	100%	0%	0%	0%	0%	5%	1%	0%	0%	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%
Operation	0%	0%	0%	0%	0%	0%	3%	0%	0%	0%	0%	0%	99%	97%	100%	0%	0%	0%	0%	0%	0%	98%	95%	100%
Other	0%	0%	0%	28%	58%	0%	5%	2%	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%	100%	100%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	2%	0%
Weather/Fire/Earthquake	0%	0%	0%	72%	42%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
FRUITVALE(12KV) - Customers: 1,654	36.4	2.1	0.0	25.5	0.2	1.0	31.8	0.7	1.0	4.9	0.1	0.0	7.0	0.1	0.2	0.4	0.0	2.0	0.0	0.0	0.0	12.3	0.2	2.2
3rd Party	0%	0%	0%	0%	0%	0%	10%	36%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	51%	50%	0%	97%	54%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	3%	0%	0%
Operation	49%	50%	0%	3%	46%	100%	90%	64%	0%	100%	100%	0%	100%	100%	100%	0%	0%	100%	0%	0%	0%	97%	100%	100%
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%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
GILMAN(12KV) - Customers: 17	18.0	2.0	0.0	0.0	0.0	2.0	69.8	0.5	0.0	0.0	0.0	2.0	0.0	0.0	0.0	52.0	4.0	2.0	18.0	1.0	1.0	70.0	5.0	5.0
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	26%	20%	20%
Equipment Failure	33%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	40%
Operation	67%	50%	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%	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	88%	75%	100%	0%	0%	0%	66%	60%	40%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	12%	25%	0%	0%	0%	0%	9%	20%	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%
GIRARD(12KV) - Customers: 1,824	0.1	0.0	0.0	24.5	0.3	1.0	254.2	0.8	0.3	47.8	1.0	0.7	0.0	0.0	0.0	0.0	0.0	1.0	48.9	0.3	0.0	96.6	1.3	1.7
3rd Party	0%	0%	0%	84%	98%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	0%	0%	0%	0%	0%	0%	6%	12%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	51%	26%	0%
Operation	100%	100%	0%	1%	1%	100%	84%	43%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	58%
Other	0%	0%	0%	16%	1%	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%	10%	45%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	49%	74%	42%

		2013			2014			2015		1st	Qtr 20	16	2nd	l Qtr 20	016	3rd	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	MAIFI	SAIDI	SAIFI I	MAIFI	SAIDI	SAIFI	MAIFI
HEWITT(12KV) - Customers: 461	17.9	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	1.0	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	33%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	67%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	100%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
KADICE(12KV) - Customers: 1,619	3.2	0.2	0.1	152.5	2.0	3.2	13.1	0.1	2.0	0.0	0.0	0.0	207.0	1.1	1.0	16.0	0.6	0.1	0.0	0.0	0.0	223.0	1.6	1.1
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	0%	0%	0%	91%	49%	37%	100%	100%	0%	0%	0%	0%	8%	6%	0%	0%	0%	0%	0%	0%	0%	7%	4%	0%
Operation	100%	100%	100%	3%	2%	0%	0%	0%	0%	0%	0%	0%	92%	94%	100%	100%	100%	100%	0%	0%	0%	93%	96%	100%
Other	0%	0%	0%	6%	49%	32%	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	0%	0%	0%	0%	0%	32%	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
KIRBY(12KV) - Customers: 1,603	262.2	3.7	1.2	239.3	3.2	6.0	99.9	0.8	2.4	377.0	1.2	3.6	16.9	0.1	0.0	87.2	2.2	2.1	0.0	0.0	0.0	481.0	3.5	5.7
3rd Party	73%	28%	66%	65%	37%	0%	0%	0%	0%	62%	49%	40%	0%	0%	0%	95%	72%	82%	0%	0%	0%	66%	63%	56%
Equipment Failure	22%	45%	34%	3%	0%	0%	33%	18%	0%	38%	51%	32%	81%	78%	0%	0%	0%	0%	0%	0%	0%	32%	19%	20%
Operation	5%	27%	0%	0%	0%	17%	10%	3%	41%	0%	0%	0%	19%	22%	0%	5%	28%	18%	0%	0%	0%	2%	18%	7%
Other	0%	0%	0%	0%	0%	50%	57%	79%	16%	0%	0%	28%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	17%
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%	33%	63%	34%	0%	0%	42%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
LAUDA(33KV) - Customers: 1	148.0	3.0	0.0	107.0	1.0	4.0	19.0	1.0	1.0	0.0	0.0	2.0	0.0	0.0	0.0	538.0	4.0	0.0	77.0	2.0	2.0	615.0	6.0	4.0
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	23%	50%	50%	3%	17%	25%
Equipment Failure	4%	33%	0%	0%	0%	25%	0%	0%	0%	0%	0%	100%	0%	0%	0%	22%	50%	0%	77%	50%	0%	28%	50%	50%
Operation	8%	33%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	88%	33%	0%	100%	100%	75%	0%	0%	0%	0%	0%	0%	0%	0%	0%	77%	25%	0%	0%	0%	50%	68%	17%	25%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	25%	0%	0%	0%	0%	1%	17%	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%

		2013			2014			2015		1st	Qtr 20	16	2n	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	MAIFI	SAIDI	SAIFI I	MAIFI	SAIDI	SAIFI	MAIFI
LOCKNER(12KV) - Customers: 1,322	229.7	3.5	1.0	151.9	0.7	4.1	229.9	1.3	1.0	6.2	0.0	1.0	0.0	0.0	0.0	44.7	1.7	0.3	1.7	0.0	0.0	52.7	1.7	1.3
3rd Party	58%	29%	0%	2%	1%	24%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	15%	1%	0%
Equipment Failure	34%	42%	100%	0%	0%	0%	98%	98%	0%	0%	0%	0%	0%	0%	0%	89%	59%	0%	0%	0%	0%	76%	59%	0%
Operation	8%	30%	0%	19%	62%	17%	1%	1%	0%	0%	0%	0%	0%	0%	0%	11%	41%	100%	0%	0%	0%	9%	41%	24%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	76%
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%	79%	37%	59%	1%	1%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
MASSACRE(12KV) - Customers: 1,601	222.3	5.8	1.7	457.1	4.9	4.0	445.7	1.8	2.5	0.0	0.0	0.0	41.7	1.0	1.0	0.9	0.0	1.0	10.0	1.0	0.0	52.7	2.0	2.0
3rd Party	43%	17%	0%	0%	0%	0%	22%	64%	22%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	22%	31%	43%	84%	40%	50%	6%	20%	78%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	5%	17%	0%	10%	19%	25%	73%	16%	0%	0%	0%	0%	98%	100%	0%	100%	100%	100%	100%	100%	0%	99%	100%	50%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	50%
Vegetation/Animal	14%	10%	57%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	16%	25%	0%	7%	41%	25%	0%	0%	0%	0%	0%	0%	2%	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%
MINOR(12KV) - Customers: 1,842	17.4	1.9	0.0	30.8	1.2	0.9	42.2	0.2	0.0	20.8	1.1	0.9	0.0	0.0	0.0	40.6	0.4	1.0	0.0	0.0	0.0	61.4	1.4	1.9
3rd Party	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	34%	50%	0%	0%	0%	0%	62%	50%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	66%	25%	0%
Operation	66%	50%	0%	0%	0%	100%	38%	50%	0%	100%	100%	100%	0%	0%	0%	0%	0%	100%	0%	0%	0%	34%	75%	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%
SAVORY(12KV) - Customers: 1,469	140.4	3.2	2.1	34.4	0.3	2.0	19.2	0.1	0.9	13.0	0.2	0.0	6.1	0.1	0.1	12.4	0.2	1.1	99.4	1.2	0.0	130.8	1.6	1.2
3rd Party	87%	37%	100%	8%	14%	48%	0%	0%	0%	0%	0%	0%	0%	0%	0%	23%	70%	8%	93%	96%	0%	73%	78%	8%
Equipment Failure	4%	31%	0%	0%	0%	0%	7%	2%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	5%	6%	6%
Operation	9%	31%	0%	29%	46%	49%	92%	97%	100%	100%	100%	0%	0%	0%	0%	77%	30%	92%	7%	4%	0%	22%	16%	86%
Other	0%	0%	0%	63%	40%	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%	3%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

		2013			2014			2015		1st	Qtr 20	16	2n	d Qtr 2	016	3rd	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	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI
STANFORD(12KV) - Customers: 1,638	101.7	0.4	1.0	63.0	1.6	2.4	98.9	1.2	2.4	0.0	0.0	0.0	248.4	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	248.4	1.0	1.0
3rd Party	70%	76%	8%	61%	40%	58%	65%	87%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	27%	21%	92%	13%	4%	0%	35%	13%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	100%	100%	100%
Other	0%	0%	0%	24%	55%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	0%	0%	0%	2%	0%	42%	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%
STEEL(12KV) - Customers: 30	18.0	2.0	0.0	392.3	2.9	7.8	112.5	2.1	1.0	0.0	0.0	2.1	14.9	0.0	0.0	50.4	3.9	1.9	171.7	1.9	1.0	237.0	5.9	5.0
3rd Party	0%	0%	0%	18%	35%	0%	90%	49%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	10%	50%	100%	7%	16%	19%
Equipment Failure	33%	50%	0%	77%	63%	24%	0%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	90%	50%	0%	71%	17%	42%
Operation	67%	50%	0%	0%	0%	0%	4%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	37%	6%	49%	0%	0%	0%	0%	0%	0%	0%	88%	74%	100%	0%	0%	0%	19%	49%	39%
Vegetation/Animal	0%	0%	0%	4%	2%	39%	0%	0%	0%	0%	0%	0%	0%	0%	0%	12%	26%	0%	0%	0%	0%	3%	17%	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%