

# Circuit Reliability Review Garden Grove

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 <a href="sce.com">sce.com</a>>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 Santa Ana District

Anaheim

**Garden Grove** 

Orange

Santa Ana

Tustin

**Tustin Foothills** 

Villa Park

## 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	

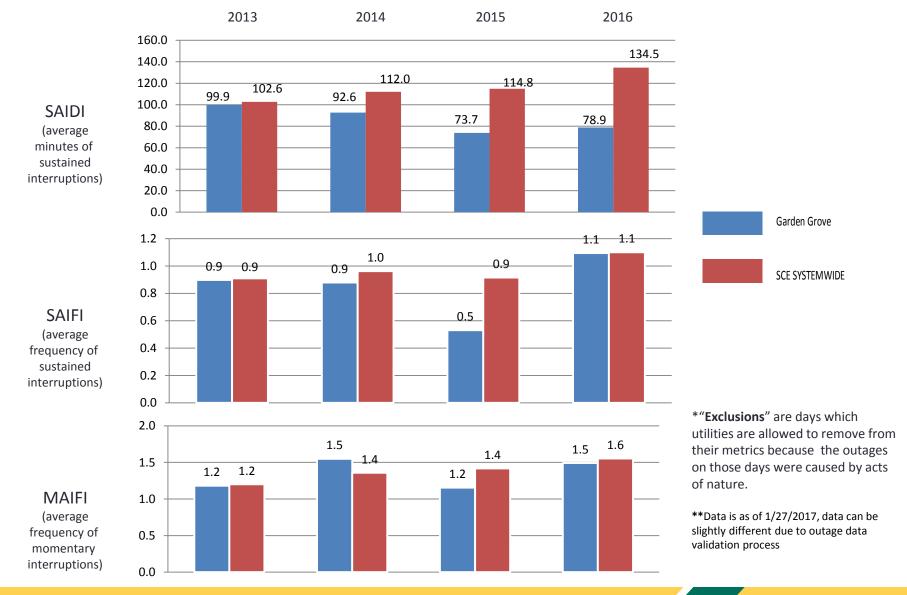
<sup>\*&</sup>quot;Exclusions" are days which utilities are allowed to remove from their metrics because the outages on those days were caused by a severe acts of nature.

<sup>\*\*</sup>In the columns showing "Rank," lower numbers indicate poorer performance.

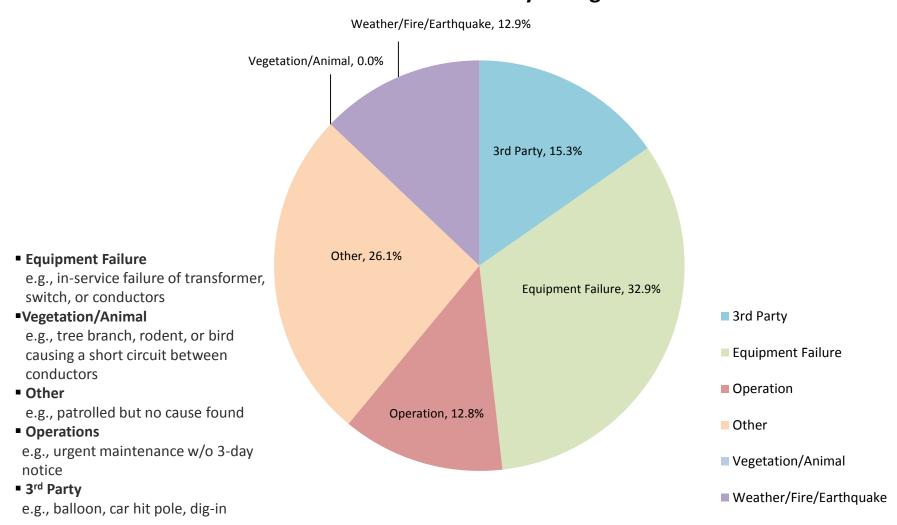
## **Overview of Garden Grove**There are 47 circuits that serve Garden Grove

Circuit Type	Sum of Customers	Circuit Type	Sum of Customers	Circuit Type	Sum of Customers	Circuit Type	Sum of Customers
AKRON(12KV)	3,216	LYNX(12KV)	694				
APACHE(12KV)	556	MARIGOLD(12KV)	3,684				
AUSTIN(12KV)	1,909	MCKEEVER(12KV)	3,488				
BELFAST(12KV)	2,490	MERCEDES(12KV)	2,543				
BISON(12KV)	2,534	OMAHA(12KV)	2,694				
BLACKHAWK(12KV)	2,741	PACKARD(12KV)	2,345				
CALLA(12KV)	934	PANTHER(12KV)	113				
CARNATION(12KV)	1,244	PONTIAC(12KV)	1,923				
CHEETAH(12KV)	2,706	RAMBLER(12KV)	3,327				
CHOCTAW(12KV)	43	SIOUX(12KV)	1,688				
CLOVER(12KV)	3,470	SNAPDRAGON(12KV)	89				
COMANCHE(12KV)	2,290	TITTLE(12KV)	3,074				
COUGAR(12KV)	485	TULIP(12KV)	2,909				
DAFFODIL(12KV)	1,146	TULSA(12KV)	2,290				
DALLAS(12KV)	2,940	WACO(12KV)	1,726				
DOCTRINE(4.16KV)	371	WICHITA(12KV)	1,392				
EDSEL(12KV)	1,615	YOUNGER(12KV)	3,943				
ELEPHANT(12KV)	816						
ESSEX(12KV)	1,787						
FLINT(12KV)	1,973						
FOXGLOVE(12KV)	1,440						
GAZELLE(12KV)	65						
GUAM(12KV)	3,324						
HOPI(12KV)	144						
INDIANAPOLIS(12KV)	3,340						
JACQUE(12KV)	2,374						
JAGUAR(12KV)	2,316						
JEROME(12KV)	1,740						
JOPLIN(12KV)	2,824						
LEOPARD(12KV)	1,990						
<b>Grand Total</b>	92,745						

#### Reliability History of Circuits Serving Garden Grove (No Exclusions)



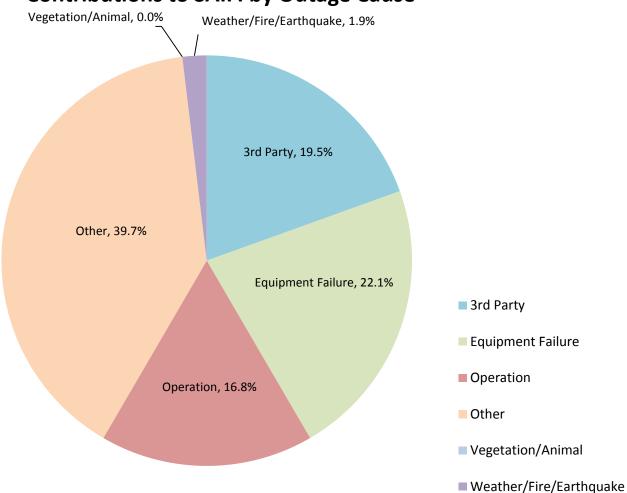
# Causes of Repair Outages in Garden Grove Circuits 2016 YTD Contributions to SAIDI by Outage Cause



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

## Causes of Repair Outages in Garden Grove Circuits 2016 YTD

#### **Contributions to SAIFI by Outage Cause**



Equipment Failuree.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

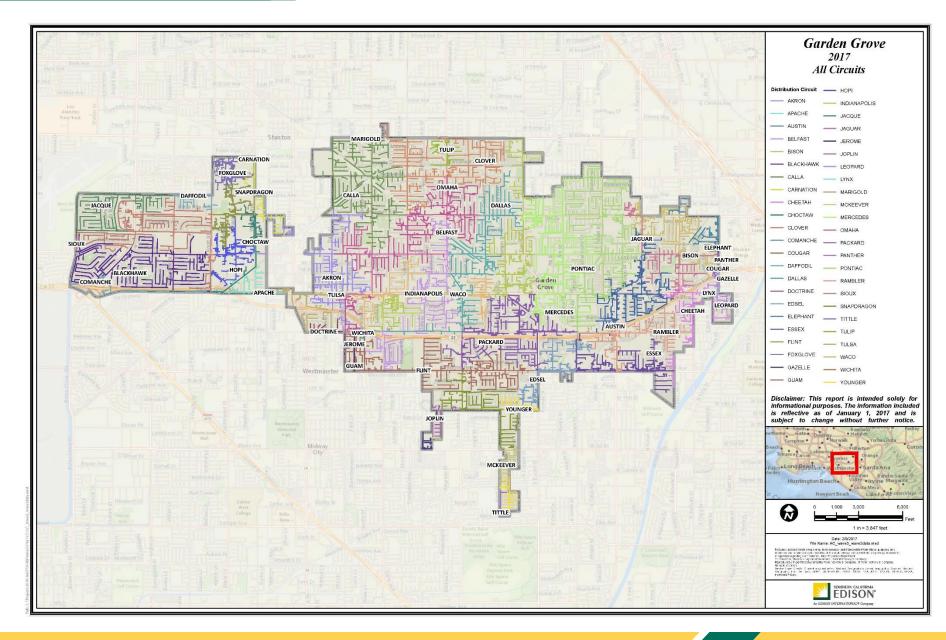
Operations

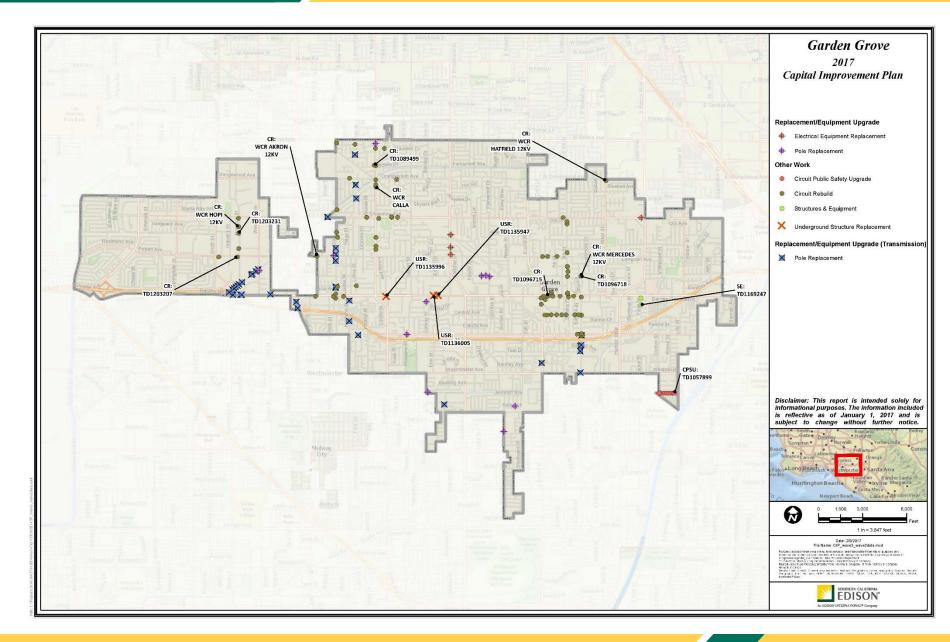
e.g., urgent maintenance w/o 3-day notice

■ 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 Garden Grove

**Updated through Year-End 2016** 

## **Average Reliability of 47 Circuits Serving Garden Grove**

		2013			2014			2015		1st	Qtr 20	16	2nd	Qtr 20	016	3rd	Qtr 20	16	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	MAIF
Garden Grove	99.9	0.9	1.2	92.6	0.9	1.5	73.7	0.5	1.2	42.8	0.6	0.7	16.4	0.2	0.3	12.5	0.2	0.3	7.3	0.1	0.2	78.9	1.1	1.
3rd Party	23%	33%	57%	11%	12%	26%	31%	50%	45%	9%	5%	8%	37%	73%	59%	17%	21%	28%	4%	4%	44%	15%	20%	279
Equipment Failure	54%	40%	23%	60%	56%	34%	38%	24%	11%	14%	10%	10%	44%	7%	0%	69%	74%	61%	59%	42%	9%	33%	22%	18%
Operation	14%	11%	6%	15%	12%	11%	21%	18%	12%	12%	14%	46%	18%	19%	0%	8%	2%	0%	16%	49%	0%	13%	17%	22%
Other	6%	3%	2%	3%	1%	8%	4%	5%	4%	43%	68%	20%	1%	1%	0%	6%	2%	11%	16%	4%	46%	26%	40%	17%
Vegetation/Animal	1%	3%	8%	8%	14%	16%	2%	1%	11%	0%	0%	5%	0%	0%	24%	0%	0%	0%	0%	0%	0%	0%	0%	8%
Weather/Fire/Earthquake	2%	10%	3%	4%	5%	5%	5%	1%	17%	23%	3%	11%	0%	0%	17%	0%	0%	0%	5%	1%	0%	13%	2%	9%
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	1.0

#### 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

3<sup>rd</sup> 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 20:	16	2nd	Qtr 20	16	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	MAIF
AKRON(12KV) - Customers: 3,216	90.7	0.9	2.1	164.0	4.0	4.0	5.4	0.0	1.0	89.9	1.3	0.8	48.5	0.1	0.0	53.9	0.5	1.5	59.8	0.6	0.4	252.2	2.4	2.7
3rd Party	31%	50%	72%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	69%	50%	28%	42%	81%	75%	0%	0%	0%	8%	3%	0%	100%	100%	0%	100%	99%	100%	100%	100%	100%	67%	48%	69%
Operation	0%	0%	0%	58%	19%	25%	5%	45%	0%	51%	16%	100%	0%	0%	0%	0%	1%	0%	0%	0%	0%	18%	9%	31%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	41%	81%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	15%	43%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	95%	55%	100%	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%
APACHE(12KV) - Customers: 556	5.4	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	49.9	1.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	49.9	1.0	2.0
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	50%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	50%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AUSTIN(12KV) - Customers: 1,909	0.0	0.0	0.0	148.4	1.3	1.0	1.1	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.1	0.0	1.9	0.1	1.0
3rd Party	0%	0%	0%	2%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	0%	0%	0%	75%	81%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	0%	0%	0%	8%	8%	0%	100%	100%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	100%	100%	0%	100%	100%	100%
Other	0%	0%	0%	16%	10%	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%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
BELFAST(12KV) - Customers: 2,490	1.3	0.0	0.0	2.4	0.0	1.0	58.1	0.1	0.0	15.9	1.0	0.0	0.0	0.0	1.0	88.5	1.0	0.0	0.0	0.0	0.0	104.4	2.0	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	48%	35%	0%	91%	90%	100%	7%	7%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	85%	50%	0%
Operation	52%	65%	0%	0%	0%	0%	93%	93%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	9%	10%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	15%	50%	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%

		2013			2014			2015		1st	Qtr 201	16	2nd	l Qtr 20	16	3rd	Qtr 20	16	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
BISON(12KV) - Customers: 2,534	16.7	0.1	0.0	212.1	1.7	3.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4	0.1	0.0	0.0	0.0	0.0	10.4	0.1	0.0
3rd Party	0%	0%	0%	0%	0%	27%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	77%	53%	0%	5%	5%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	67%	50%	0%	0%	0%	0%	67%	50%	0%
Operation	0%	0%	0%	70%	23%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	33%	50%	0%	0%	0%	0%	33%	50%	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	23%	47%	0%	0%	0%	27%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	24%	72%	46%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
BLACKHAWK(12KV) - Customers: 2,741	21.6	0.6	1.1	54.7	1.0	0.0	34.9	0.1	0.0	62.9	1.0	1.0	5.0	0.1	1.0	6.2	0.0	0.0	0.0	0.0	0.0	74.0	1.1	2.0
3rd Party	45%	30%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	44%	11%	0%	100%	100%	0%	19%	13%	0%	3%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	11%	3%	0%
Operation	11%	59%	0%	0%	0%	0%	81%	87%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	97%	100%	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	89%	97%	50%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	50%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
CALLA(12KV) - Customers: 934	97.1	1.1	0.0	350.1	3.4	1.0	43.7	0.1	5.0	0.9	0.0	0.0	12.0	1.2	1.2	0.0	0.0	1.2	0.0	0.0	0.0	12.9	1.2	2.3
3rd Party	44%	11%	0%	45%	59%	99%	0%	0%	20%	0%	0%	0%	87%	100%	100%	0%	0%	0%	0%	0%	0%	81%	99%	50%
Equipment Failure	53%	89%	0%	26%	7%	1%	57%	35%	20%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	50%
Operation	3%	1%	0%	13%	29%	0%	11%	20%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	7%	1%	0%
Other	0%	0%	0%	15%	4%	0%	0%	0%	0%	0%	0%	0%	13%	0%	0%	0%	0%	0%	0%	0%	0%	12%	0%	0%
Vegetation/Animal	0%	0%	0%	1%	0%	0%	0%	0%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	32%	45%	40%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
CARNATION(12KV) - Customers: 1,244	0.0	0.0	0.0	237.4	1.2	1.9	157.4	0.8	0.4	0.0	0.0	0.0	3.2	0.0	0.0	36.9	0.1	2.0	3.4	0.0	0.0	43.5	0.2	2.0
3rd Party	0%	0%	0%	8%	3%	100%	28%	68%	100%	0%	0%	0%	0%	0%	0%	0%	0%	50%	0%	0%	0%	0%	0%	50%
Equipment Failure	0%	0%	0%	58%	17%	0%	65%	14%	0%	0%	0%	0%	0%	0%	0%	97%	50%	50%	100%	100%	0%	90%	45%	50%
Operation	0%	0%	0%	0%	1%	0%	7%	18%	0%	0%	0%	0%	0%	0%	0%	3%	50%	0%	0%	0%	0%	3%	42%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	7%	14%	0%
Vegetation/Animal	0%	0%	0%	33%	80%	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%

		2013			2014			2015		1st	<b>Qtr 20</b> :	16	2nd	Qtr 20	16	3rd	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
CHEETAH(12KV) - Customers: 2,706	258.0	2.2	2.9	33.0	0.1	2.0	88.0	0.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	7.7	0.0	0.0	0.0	0.0	0.0	7.7	0.0	0.0
3rd Party	0%	0%	0%	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	98%	98%	100%	0%	0%	0%	6%	30%	35%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	100%	100%	0%
Operation	2%	2%	0%	57%	65%	0%	12%	25%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	43%	35%	50%	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%	5%	19%	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%	77%	26%	65%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
CHOCTAW(12KV) - Customers: 43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	234.7	2.7	1.3	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	234.7	2.7	2.3
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	0%	0%	0%	0%	0%	0%	0%	0%	0%	79%	63%	23%	0%	0%	0%	0%	0%	0%	0%	0%	0%	79%	63%	13%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	21%	37%	77%	0%	0%	0%	0%	0%	0%	0%	0%	0%	21%	37%	43%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	43%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
CLOVER(12KV) - Customers: 3,470	22.6	1.0	1.0	60.2	0.5	0.8	195.5	1.9	0.0	5.3	0.0	0.0	1.4	0.0	0.0	0.0	0.0	1.0	12.4	0.4	0.0	19.1	0.4	1.0
3rd Party	60%	97%	100%	77%	59%	100%	33%	54%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	100%
Equipment Failure	14%	1%	0%	3%	1%	0%	3%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	1%	1%	0%	8%	1%	0%
Operation	0%	0%	0%	20%	40%	0%	62%	45%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	99%	99%	0%	92%	99%	0%
Other	25%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	1%	0%	0%	0%	0%	0%	3%	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%
COMANCHE(12KV) - Customers: 2,290	5.6	0.0	0.0	65.6	0.3	2.0	89.9	0.2	0.0	50.1	1.0	2.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	50.1	1.0	4.0
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	25%
Equipment Failure	0%	0%	0%	50%	36%	0%	100%	99%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	100%	100%	0%	50%	64%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	50%	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	50%
Vegetation/Animal	0%	0%	0%	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	25%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

		2013			2014			2015		1st	Qtr 201	6	2nd	Qtr 20	16	3rd	Qtr 20	16	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
COUGAR(12KV) - Customers: 485	133.1	0.2	1.0	16.2	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	0.0	0.0	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	62%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	38%	50%	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%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
DAFFODIL(12KV) - Customers: 1,146	268.2	2.2	2.0	84.6	1.1	0.0	46.8	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	4%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	60%	90%	50%	100%	100%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	36%	6%	50%	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%
DALLAS(12KV) - Customers: 2,940	245.9	0.6	3.0	5.8	0.0	1.8	66.0	0.4	3.9	50.5	1.0	0.0	1.6	0.0	0.0	7.5	0.1	0.0	0.0	0.0	0.0	59.6	1.1	0.0
3rd Party	0%	0%	53%	0%	0%	0%	39%	12%	51%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	13%	6%	0%
Equipment Failure	98%	92%	47%	0%	0%	44%	31%	22%	24%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	2%	8%	0%	100%	100%	56%	27%	65%	25%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	3%	3%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	95%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	81%	91%	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%	3%	1%	0%	5%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	4%	0%	0%
DOCTRINE(4.16KV) - Customers: 371	662.1	1.8	0.0	8.0	0.0	0.0	0.0	0.0	0.0	187.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	187.0	3.0	1.0
3rd Party	4%	56%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	0%	0%	0%	74%	50%	0%	0%	0%	0%	58%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	58%	33%	0%
Operation	96%	44%	0%	26%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	42%	67%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	42%	67%	100%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

		2013			2014			2015		1st	Qtr 20:	16	2nd	Qtr 20	16	3rd	<b>Qtr 20</b>	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
EDSEL(12KV) - Customers: 1,615	25.6	0.1	0.0	18.6	0.0	0.0	73.6	0.1	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	99%	51%	0%	100%	100%	0%	95%	80%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	1%	49%	0%	0%	0%	0%	5%	20%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
ELEPHANT(12KV) - Customers: 816	128.9	0.1	1.8	40.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.9
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%	97%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	100%
Operation	0%	3%	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%
ESSEX(12KV) - Customers: 1,787	518.9	0.6	1.0	140.6	1.1	0.0	71.5	0.8	0.9	35.1	0.0	1.0	0.0	0.0	0.0	27.1	0.0	0.0	0.0	0.0	0.0	62.2	0.1	1.0
3rd Party	0%	0%	0%	0%	0%	0%	50%	93%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	100%	100%	0%	83%	88%	0%	32%	4%	0%	100%	100%	0%	0%	0%	0%	42%	41%	0%	0%	0%	0%	75%	70%	0%
Operation	0%	0%	0%	0%	0%	0%	2%	1%	0%	0%	0%	100%	0%	0%	0%	58%	59%	0%	0%	0%	0%	25%	30%	100%
Other	0%	0%	100%	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%	17%	12%	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%	16%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
FLINT(12KV) - Customers: 1,973	13.2	0.0	1.0	37.9	0.0	2.0	192.8	1.8	0.0	20.0	1.0	0.0	44.1	1.1	1.0	0.0	0.0	0.0	0.0	0.0	1.0	64.1	2.1	2.0
3rd Party	0%	0%	0%	0%	0%	0%	24%	37%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	69%	51%	50%
Equipment Failure	0%	0%	0%	100%	100%	100%	76%	63%	0%	20%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	6%	0%	0%
Operation	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	80%	99%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	25%	48%	50%
Vegetation/Animal	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

		2013			2014			2015		1st	Qtr 201	16	2nd	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	MAIFI	SAIDI	SAIFI	MAIFI
FOXGLOVE(12KV) - Customers: 1,440	23.5	0.1	0.6	0.0	0.0	0.0	64.3	0.1	0.0	120.0	1.0	0.0	0.2	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	120.2	1.0	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	100%	100%	100%	0%	0%	0%	15%	42%	0%	100%	100%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	100%	99%	100%
Operation	0%	0%	0%	0%	0%	0%	85%	58%	0%	0%	0%	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%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
GAZELLE(12KV) - Customers: 65	0.0	0.0	0.0	15.0	1.0	3.0	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	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%	0%	0%	67%	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%	100%	100%	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%	0%	0%	0%	0%	0%	0%
GUAM(12KV) - Customers: 3,324	82.1	0.6	0.0	111.1	0.1	2.8	6.2	0.0	0.1	82.3	1.0	2.0	0.4	0.0	1.0	43.9	1.0	2.0	0.0	0.0	0.0	126.6	2.1	5.0
3rd Party	96%	99%	0%	0%	1%	36%	0%	0%	0%	10%	2%	50%	0%	0%	100%	0%	0%	0%	0%	0%	0%	6%	1%	40%
Equipment Failure	4%	1%	0%	96%	95%	64%	51%	7%	0%	26%	2%	0%	0%	0%	0%	100%	100%	49%	0%	0%	0%	51%	51%	19%
Operation	0%	0%	0%	4%	4%	0%	4%	1%	100%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	45%	91%	0%	65%	96%	50%	0%	0%	0%	0%	0%	51%	0%	0%	0%	42%	48%	40%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
HOPI(12KV) - Customers: 144	93.6	1.0	1.0	170.1	2.0	1.9	2.4	0.0	0.0	171.3	2.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	171.3	2.0	2.0
3rd Party	0%	0%	0%	2%	0%	48%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	100%	100%	0%	98%	100%	52%	100%	100%	0%	71%	51%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	71%	51%	0%
Operation	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	100%	0%	0%	0%	0%	0%	0%	29%	49%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	29%	49%	49%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	51%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

		2013			2014			2015		1st (	Qtr 20.	16	2nd	Qtr 20	16	3rd	Qtr 20	16	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	MAIF
INDIANAPOLIS(12KV) - Customers: 3,340	100.7	2.2	2.0	94.5	1.1	4.0	13.4	0.2	2.0	49.8	1.0	1.0	1.1	0.0	0.0	23.2	1.4	1.0	0.0	0.0	0.0	74.2	2.4	2.0
3rd Party	1%	0%	100%	0%	0%	0%	0%	0%	50%	4%	1%	0%	100%	100%	0%	30%	30%	100%	0%	0%	0%	13%	18%	50%
Equipment Failure	57%	50%	0%	100%	100%	75%	57%	21%	0%	0%	0%	0%	0%	0%	0%	66%	69%	0%	0%	0%	0%	21%	40%	0%
Operation	40%	49%	0%	0%	0%	0%	43%	79%	0%	0%	0%	0%	0%	0%	0%	5%	1%	0%	0%	0%	0%	1%	0%	0%
Other	0%	0%	0%	0%	0%	25%	0%	0%	0%	96%	99%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	65%	42%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	50%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	50%
Weather/Fire/Earthquake	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
JACQUE(12KV) - Customers: 2,374	372.4	1.4	0.0	7.2	0.0	2.0	42.1	1.1	0.0	57.5	0.9	0.0	0.0	0.0	0.0	5.6	0.0	0.0	31.2	0.4	1.9	94.3	1.3	1.9
3rd Party	0%	0%	0%	0%	0%	0%	21%	88%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	35%	49%	100%	11%	14%	100%
Equipment Failure	42%	20%	0%	76%	43%	0%	55%	7%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	17%	12%	0%	12%	5%	0%
Operation	0%	0%	0%	24%	57%	100%	2%	1%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	48%	39%	0%	77%	81%	0%
Other	58%	80%	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%	21%	5%	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%
JAGUAR(12KV) - Customers: 2,316	0.0	0.0	0.0	75.7	0.4	0.0	106.3	1.4	0.0	18.2	0.1	1.0	3.0	0.0	0.0	3.5	0.0	0.0	37.6	0.2	0.0	62.3	0.3	1.0
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	6%	8%	0%
Equipment Failure	0%	0%	0%	100%	100%	0%	7%	4%	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%	100%	100%	0%	0%	0%	0%	0%	0%	0%	5%	8%	0%
Other	0%	0%	0%	0%	0%	0%	79%	92%	0%	46%	25%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	74%	58%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	13%	4%	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%	54%	75%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	16%	25%	100%
JEROME(12KV) - Customers: 1,740	55.7	1.1	0.0	344.4	2.0	2.9	68.0	1.1	0.0	19.6	1.2	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	19.6	1.2	0.9
3rd Party	0%	0%	0%	0%	0%	0%	85%	93%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
Equipment Failure	72%	7%	0%	100%	100%	65%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	2%	1%	0%	0%	0%	0%	15%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	35%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%
Vegetation/Animal	26%	93%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

		2013			2014			2015		1st	<b>Qtr 20</b> :	16	2nd	Qtr 202	16	3rd	Qtr 20	16	4th	Qtr 20	16		2016	
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI N	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI
JOPLIN(12KV) - Customers: 2,824	50.1	1.2	2.0	75.5	2.0	0.9	54.6	0.1	1.9	42.2	0.9	0.0	21.6	0.0	0.0	0.2	0.0	0.0	7.4	0.0	1.1	71.4	0.9	1.1
3rd Party	69%	91%	100%	0%	0%	0%	5%	26%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	9%	2%	0%	44%	50%	0%	44%	46%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	22%	7%	0%	4%	0%	0%	49%	26%	100%	4%	3%	0%	100%	100%	0%	100%	100%	0%	0%	0%	0%	33%	6%	0%
Other	0%	0%	0%	1%	1%	0%	3%	3%	0%	96%	97%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	56%	91%	100%
Vegetation/Animal	0%	0%	0%	51%	49%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	10%	3%	0%
LEOPARD(12KV) - Customers: 1,990	21.9	0.0	1.0	357.9	0.7	0.1	16.2	0.1	1.0	0.0	0.0	0.0	4.1	0.0	0.0	23.6	0.1	0.0	0.0	0.0	0.0	27.7	0.1	0.0
3rd Party	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	7%	18%	0%	100%	97%	100%	18%	10%	0%	0%	0%	0%	0%	0%	0%	98%	65%	0%	0%	0%	0%	84%	43%	0%
Operation	93%	82%	0%	0%	3%	0%	17%	15%	0%	0%	0%	0%	100%	100%	0%	2%	35%	0%	0%	0%	0%	16%	57%	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%	65%	76%	100%	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%
LYNX(12KV) - Customers: 694	221.5	0.5	2.0	184.7	1.6	2.0	82.8	1.1	0.0	0.0	0.0	0.0	112.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	112.6	0.2	0.0
3rd Party	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%
Equipment Failure	0%	0%	0%	68%	71%	50%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	100%	100%	0%	32%	29%	50%	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%	50%	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%
MARIGOLD(12KV) - Customers: 3,684	306.3	1.1	0.0	17.8	0.1	1.0	312.4	2.2	0.0	6.0	0.0	0.7	48.3	0.2	0.0	0.0	0.0	1.1	1.9	0.0	0.0	56.2	0.2	1.8
3rd Party	97%	97%	0%	18%	58%	100%	42%	47%	0%	0%	0%	0%	4%	11%	0%	0%	0%	0%	0%	0%	0%	4%	10%	0%
Equipment Failure	1%	1%	0%	11%	3%	0%	56%	51%	0%	0%	0%	0%	96%	87%	0%	0%	0%	100%	100%	100%	0%	86%	81%	59%
Operation	0%	0%	0%	54%	12%	0%	3%	2%	0%	0%	0%	0%	0%	2%	0%	0%	0%	0%	0%	0%	0%	0%	2%	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	3%	2%	0%	17%	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%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	11%	7%	41%

		2013		,	2014			2015		1st	Qtr 20:	16	2nd	Qtr 20	16	3rd	Qtr 20	16	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	MAIF
MCKEEVER(12KV) - Customers: 3,488	136.5	1.3	2.3	23.3	0.1	1.0	5.9	0.0	0.0	37.4	1.0	2.8	11.6	0.0	0.0	0.0	0.0	0.0	14.6	1.0	0.0	63.6	2.1	2.8
3rd Party	20%	16%	79%	0%	0%	99%	65%	76%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	80%	84%	21%	95%	86%	1%	35%	24%	0%	100%	100%	64%	99%	56%	0%	0%	0%	0%	60%	2%	0%	91%	51%	64%
Operation	0%	0%	0%	5%	14%	0%	0%	0%	0%	0%	0%	36%	1%	44%	0%	0%	0%	0%	40%	98%	0%	9%	49%	36%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
MERCEDES(12KV) - Customers: 2,543	32.6	0.0	1.0	283.4	3.9	3.6	55.2	0.2	1.0	5.6	0.0	1.0	25.5	0.1	0.0	0.0	0.0	0.0	6.7	0.0	0.0	37.8	0.1	1.0
3rd Party	0%	0%	100%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	8%	7%	0%	34%	44%	5%	71%	19%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	0%	0%	0%	4%	2%	0%	28%	79%	0%	39%	20%	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	73%	62%	100%
Other	91%	86%	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%	35%	40%	83%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	1%	7%	0%	27%	14%	12%	1%	2%	0%	61%	80%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	27%	38%	0%
OMAHA(12KV) - Customers: 2,694	18.5	1.6	0.5	138.3	0.6	0.5	151.2	1.4	1.5	84.3	1.2	0.5	49.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	134.0	1.2	0.5
3rd Party	34%	34%	100%	0%	0%	0%	18%	34%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	13%	0%	0%	95%	95%	100%	76%	60%	67%	0%	0%	0%	90%	51%	0%	0%	0%	0%	0%	0%	0%	33%	2%	0%
Operation	4%	1%	0%	5%	5%	0%	4%	4%	0%	5%	5%	100%	10%	49%	0%	0%	0%	0%	0%	0%	0%	7%	7%	100%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	95%	95%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	60%	91%	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	49%	64%	0%	0%	0%	0%	2%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PACKARD(12KV) - Customers: 2,345	15.8	0.0	0.0	18.9	0.3	0.4	24.5	0.0	0.0	0.6	0.0	1.0	0.0	0.0	0.0	16.8	0.0	0.0	0.2	0.0	0.0	17.5	0.0	1.0
3rd Party	0%	0%	0%	6%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	36%	15%	0%	60%	57%	100%	93%	82%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	64%	85%	0%	34%	23%	0%	7%	18%	0%	100%	100%	100%	0%	0%	0%	100%	100%	0%	100%	100%	0%	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%

	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
PANTHER(12KV) - Customers: 113	97.4	1.0	1.9	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	0.0	0.0	0.0	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	100%	100%	47%	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%	53%	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%
PONTIAC(12KV) - Customers: 1,923	262.0	3.2	3.2	35.5	0.1	1.0	93.0	0.1	1.6	3.0	0.4	1.6	0.0	0.0	0.0	39.0	0.2	0.0	0.0	0.0	1.0	42.1	0.6	2.6
3rd Party	15%	22%	10%	22%	45%	100%	5%	6%	0%	0%	0%	63%	0%	0%	0%	2%	5%	0%	0%	0%	100%	2%	1%	78%
Equipment Failure	36%	24%	40%	76%	39%	0%	3%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	42%	22%	41%	1%	15%	0%	30%	32%	0%	100%	100%	37%	0%	0%	0%	0%	0%	0%	0%	0%	0%	7%	68%	22%
Other	0%	0%	0%	0%	0%	0%	63%	59%	0%	0%	0%	0%	0%	0%	0%	98%	95%	0%	0%	0%	0%	91%	30%	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	8%	31%	9%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
RAMBLER(12KV) - Customers: 3,327	21.0	0.1	0.0	0.0	0.0	0.0	25.0	0.1	3.2	0.0	0.0	0.9	141.3	1.9	2.7	1.3	0.0	0.0	3.8	0.0	0.0	146.4	1.9	3.7
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	33%	0%	0%	0%	47%	48%	33%	0%	0%	0%	0%	0%	0%	46%	48%	25%
Equipment Failure	57%	10%	0%	0%	0%	0%	85%	61%	0%	0%	0%	0%	28%	2%	0%	0%	0%	0%	97%	92%	0%	29%	3%	0%
Operation	43%	90%	0%	0%	0%	0%	15%	39%	0%	0%	0%	100%	25%	49%	0%	100%	100%	0%	3%	8%	0%	25%	49%	25%
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%	67%	0%	0%	0%	0%	0%	67%	0%	0%	0%	0%	0%	0%	0%	0%	50%
SIOUX(12KV) - Customers: 1,688	65.3	0.1	0.6	43.6	1.0	0.0	51.8	1.0	0.0	57.5	1.2	1.2	0.0	0.0	0.9	3.1	0.0	0.0	0.0	0.0	0.0	60.6	1.2	2.1
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	83%	85%	0%	96%	99%	0%	8%	1%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	5%	0%	0%
Operation	17%	15%	100%	4%	1%	0%	92%	99%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	95%	100%	55%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	45%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

	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
SNAPDRAGON(12KV) - Customers: 89	0.0	0.0	0.0	70.1	1.2	0.0	288.1	2.3	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
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%	100%	100%	100%	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%
TITTLE(12KV) - Customers: 3,074	63.7	0.5	4.5	82.6	1.2	5.4	88.5	1.1	4.0	270.1	0.9	1.4	8.4	0.0	0.0	53.0	0.5	0.0	0.0	0.0	0.0	331.5	1.5	1.4
3rd Party	17%	13%	43%	47%	36%	19%	56%	91%	50%	0%	0%	0%	0%	0%	0%	81%	91%	0%	0%	0%	0%	13%	32%	0%
Equipment Failure	22%	4%	0%	16%	7%	19%	32%	5%	0%	3%	0%	0%	100%	100%	0%	19%	9%	0%	0%	0%	0%	8%	5%	0%
Operation	2%	1%	0%	0%	0%	18%	9%	3%	25%	2%	51%	49%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	32%	49%
Other	0%	0%	0%	0%	0%	0%	2%	0%	25%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	9%	12%	43%	37%	57%	26%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	50%	70%	14%	0%	0%	18%	0%	0%	0%	96%	49%	51%	0%	0%	0%	0%	0%	0%	0%	0%	0%	78%	31%	51%
TULIP(12KV) - Customers: 2,909	38.0	1.0	0.0	11.6	0.0	1.0	174.7	0.5	2.9	106.0	1.0	0.0	6.5	0.0	0.0	0.3	0.0	0.0	3.8	0.0	0.0	116.5	1.1	0.0
3rd Party	74%	97%	0%	0%	0%	100%	89%	94%	84%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	91%	95%	0%
Equipment Failure	2%	1%	0%	96%	76%	0%	8%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	2%	1%	0%	4%	24%	0%	3%	4%	16%	0%	0%	0%	100%	100%	0%	100%	100%	0%	100%	100%	0%	9%	5%	0%
Other	22%	2%	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%
TULSA(12KV) - Customers: 2,290	0.0	0.0	0.0	5.9	0.0	0.5	78.6	1.0	0.9	102.5	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	56.1	1.0	0.0	158.6	3.0	1.0
3rd Party	0%	0%	0%	0%	0%	0%	97%	96%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	0%	0%	0%	100%	100%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	85%	97%	0%	30%	32%	0%
Operation	0%	0%	0%	0%	0%	0%	0%	0%	0%	44%	50%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	29%	33%	100%
Other	0%	0%	0%	0%	0%	100%	0%	0%	0%	56%	50%	0%	0%	0%	0%	0%	0%	0%	15%	3%	0%	41%	34%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	2%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

	2013			2014			2015			1st Qtr 2016			2nd Qtr 2016			3rd	Qtr 20	16	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
WACO(12KV) - Customers: 1,726	87.1	1.6	2.0	23.6	0.2	1.0	120.1	0.2	0.0	16.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.6	1.0	0.0
3rd Party	82%	97%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
Equipment Failure	18%	3%	0%	80%	89%	100%	60%	39%	0%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	0%	0%
Operation	0%	0%	0%	20%	11%	0%	15%	41%	0%	2%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	1%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	96%	99%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	96%	99%	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%	25%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
WICHITA(12KV) - Customers: 1,392	104.5	1.0	0.0	0.0	0.0	2.0	150.5	1.3	2.0	16.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	16.0	1.0	2.0
3rd Party	96%	99%	0%	0%	0%	0%	99%	98%	100%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	50%
Equipment Failure	4%	1%	0%	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	0%	0%	0%	0%	0%	50%	1%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	50%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
YOUNGER(12KV) - Customers: 3,943	32.3	1.0	1.9	36.8	0.1	1.0	44.1	0.0	2.0	2.1	0.0	1.0	45.7	1.5	0.0	0.0	0.0	0.0	6.1	0.0	0.0	53.8	1.5	1.0
3rd Party	17%	3%	100%	0%	0%	100%	0%	0%	100%	100%	100%	0%	92%	100%	0%	0%	0%	0%	0%	0%	0%	82%	98%	0%
Equipment Failure	82%	97%	0%	59%	42%	0%	3%	14%	0%	0%	0%	0%	8%	0%	0%	0%	0%	0%	100%	100%	0%	18%	2%	0%
Operation	1%	0%	0%	24%	49%	0%	97%	86%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	18%	9%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%