

# Circuit Reliability Review Norco

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 Ontario District**

Anaheim

Chino

Chino Hills

Corona

Eastvale

El Cerrito

**Home Gardens** 

Mira Loma

Montclair

**Norco** 

Ontario

Pedley

Riverside

San Antonio Heights

**Upland** 

# 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.

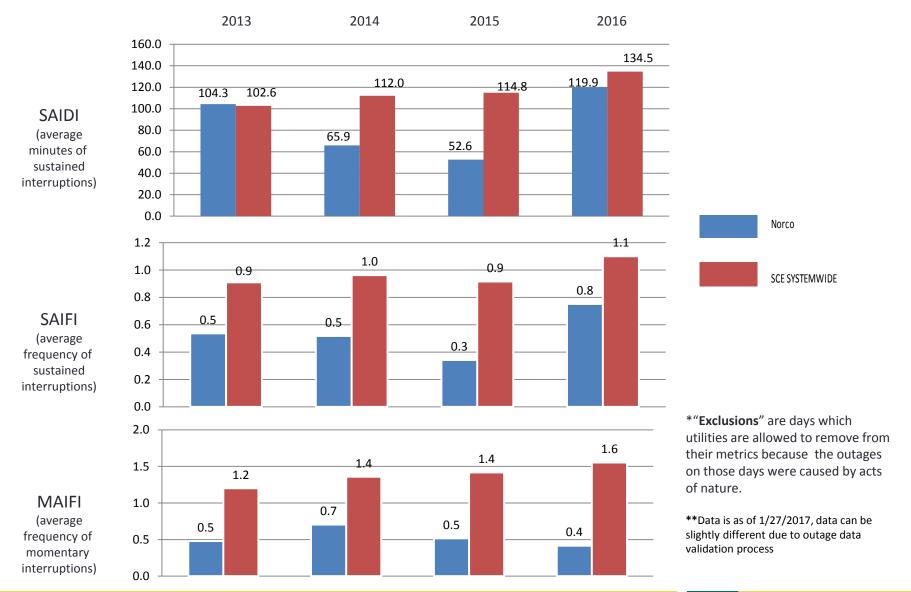
<sup>\*\*</sup>In the columns showing "Rank," lower numbers indicate poorer performance.

# Overview of Norco There are 18 circuits that serve Norco

| Circuit Type      | Sum of Customers | Circuit Type | Sum of Customers | Circuit Type | Sum of Customers | Circuit Type | Sum of Customers |
|-------------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|
| ARLINGTON(12KV)   | 1,031            |              |                  |              |                  |              |                  |
| ASTORIA(12KV)     | 802              |              |                  |              |                  |              |                  |
| BOLLERO(12KV)     | 1,524            |              |                  |              |                  |              |                  |
| CUPPLES(33KV)     | 4                |              |                  |              |                  |              |                  |
| DETROIT(4.16KV)   | 57               |              |                  |              |                  |              |                  |
| GLACIER(12KV)     | 1,123            |              |                  |              |                  |              |                  |
| KINGSFORD(12KV)   | 895              |              |                  |              |                  |              |                  |
| LA SIERRA(12KV)   | 349              |              |                  |              |                  |              |                  |
| LAB(12KV)         | 847              |              |                  |              |                  |              |                  |
| MICHAEL(12KV)     | 687              |              |                  |              |                  |              |                  |
| NORCONIAN(4.16KV) | 240              |              |                  |              |                  |              |                  |
| PASEO(12KV)       | 2,720            |              |                  |              |                  |              |                  |
| PROFIT(12KV)      | 1,516            |              |                  |              |                  |              |                  |
| QUARRY(12KV)      | 1,432            |              |                  |              |                  |              |                  |
| SEVAINE(12KV)     | 1,853            |              |                  |              |                  |              |                  |
| SHERIDAN(12KV)    | 1,961            |              |                  |              |                  |              |                  |
| SNIPES(12KV)      | 2,054            |              |                  |              |                  |              |                  |
| WINEVILLE(12KV)   | 854              |              |                  |              |                  |              |                  |
| . ,               |                  |              |                  |              |                  |              |                  |

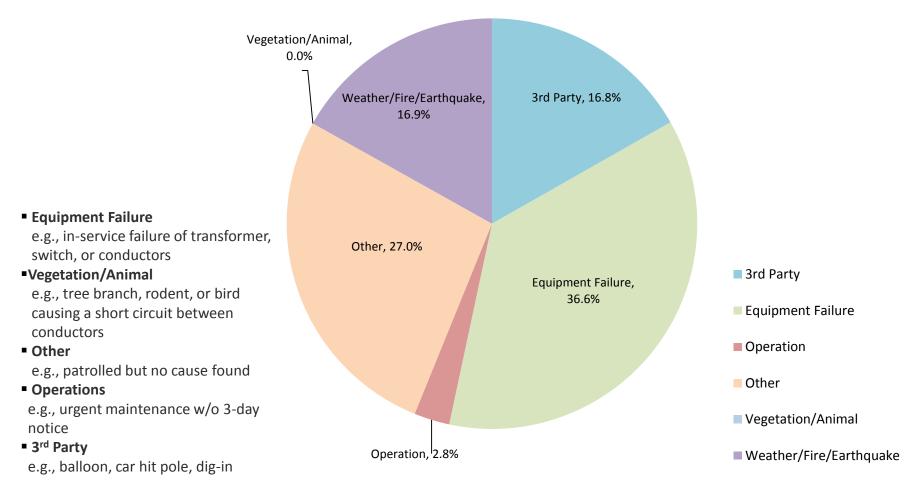
**Grand Total** 19,949

# Reliability History of Circuits Serving Norco (No Exclusions)



### Causes of Repair Outages in Norco Circuits 2016 YTD

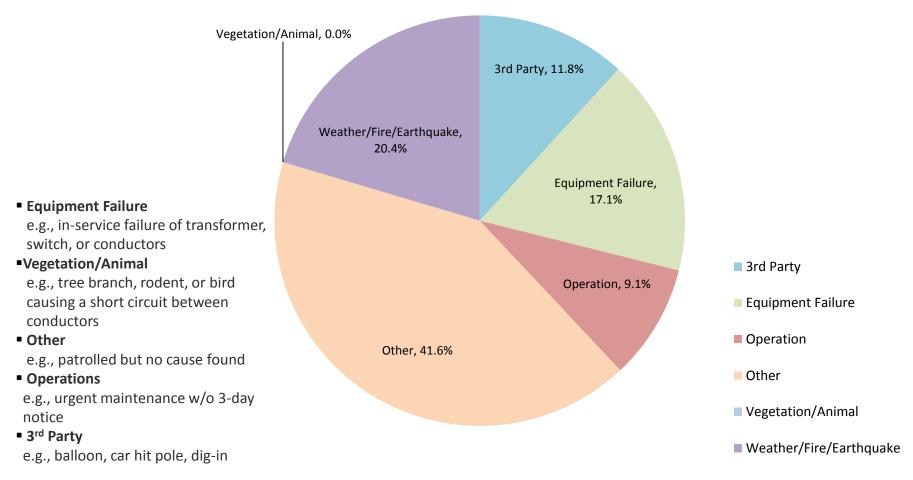
#### **Contributions to SAIDI by Outage Cause**



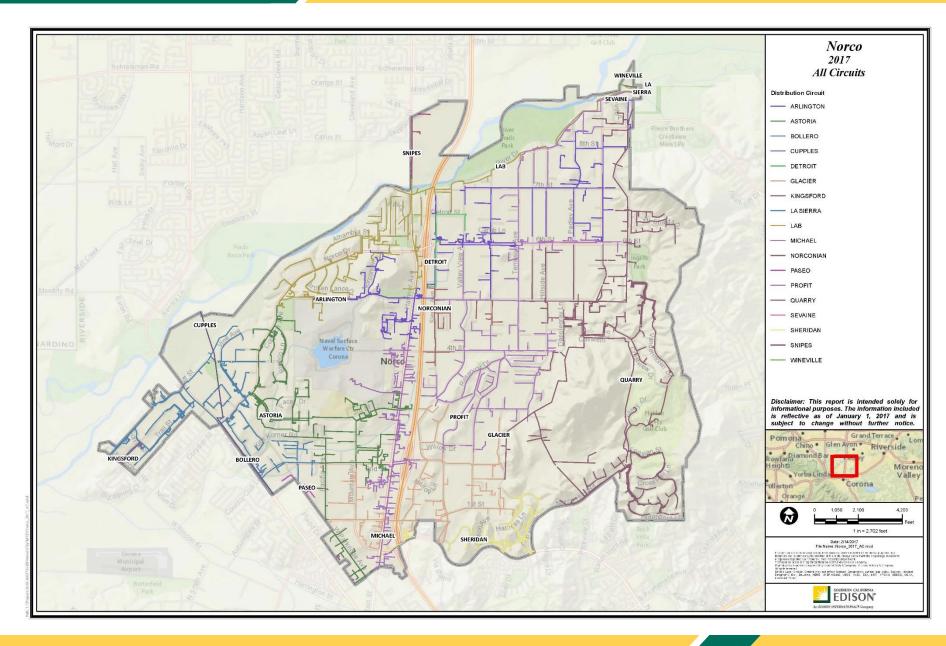
**SAIDI** = the cumulative amount of time the average customer is interrupted by "sustained" outages each year.

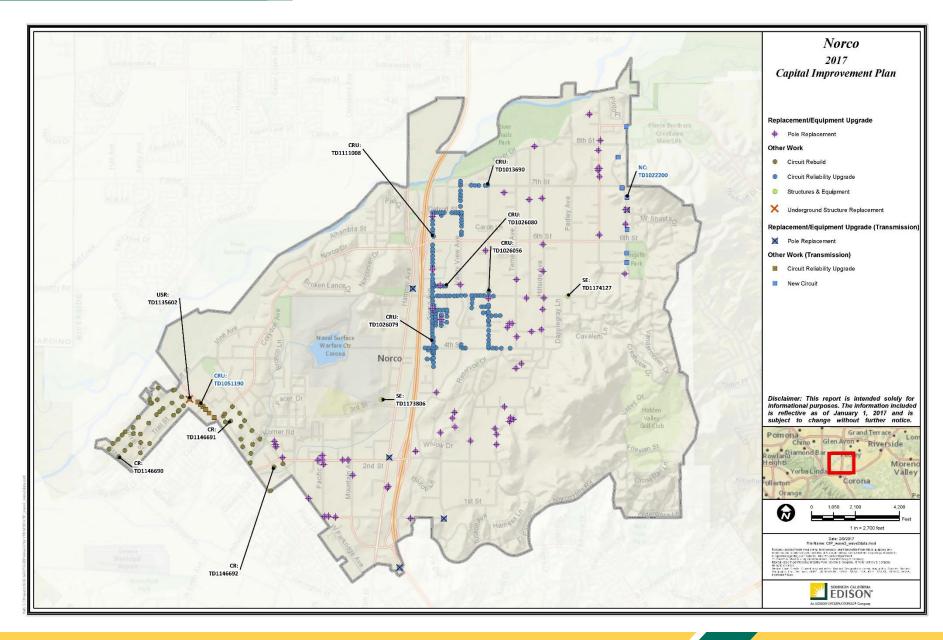
# **Causes of Repair Outages in Norco Circuits 2016 YTD**

#### **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 Norco** 

**Updated through Year-End 2016** 

# **Average Reliability of 18 Circuits Serving Norco**

|                         |       | 2013  |       |       | 2014  |       |       | 2015  |       | 1st   | Qtr 20 | 16    | 2nd   | 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 |
|                         |       |       |       |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |        |       |       |       |       |
| Norco                   | 104.3 | 0.5   | 0.5   | 65.9  | 0.5   | 0.7   | 52.6  | 0.3   | 0.5   | 5.1   | 0.1    | 0.0   | 14.3  | 0.1   | 0.1   | 62.0  | 0.3   | 0.1   | 38.5  | 0.3    | 0.2   | 119.9 | 0.8   | 0.4   |
| 3rd Party               | 24%   | 14%   | 25%   | 10%   | 14%   | 2%    | 19%   | 34%   | 7%    | 0%    | 0%     | 0%    | 0%    | 0%    | 0%    | 29%   | 31%   | 88%   | 6%    | 1%     | 0%    | 17%   | 12%   | 22%   |
| Equipment Failure       | 69%   | 58%   | 24%   | 67%   | 63%   | 26%   | 59%   | 50%   | 42%   | 5%    | 1%     | 0%    | 69%   | 39%   | 0%    | 51%   | 28%   | 0%    | 5%    | 7%     | 20%   | 37%   | 17%   | 8%    |
| Operation               | 6%    | 22%   | 3%    | 23%   | 22%   | 8%    | 20%   | 15%   | 0%    | 22%   | 66%    | 100%  | 4%    | 8%    | 0%    | 3%    | 3%    | 0%    | 0%    | 1%     | 0%    | 3%    | 9%    | 5%    |
| Other                   | 0%    | 0%    | 17%   | 1%    | 1%    | 56%   | 0%    | 0%    | 44%   | 18%   | 23%    | 0%    | 27%   | 53%   | 100%  | 17%   | 38%   | 12%   | 44%   | 47%    | 24%   | 27%   | 42%   | 43%   |
| 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 | 1%    | 6%    | 31%   | 0%    | 1%    | 8%    | 1%    | 1%    | 7%    | 54%   | 10%    | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    | 45%   | 45%    | 56%   | 17%   | 20%   | 22%   |
|                         |       |       |       |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |        |       |       |       |       |
| 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

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   | <b>Qtr 201</b> | 16    | 2nd   | d Qtr 20 | 16    | 3rd   | <b>Qtr 20</b> 2 | 16    | 4th   | Qtr 20 | 16    |       | 2016  |      |
|------------------------------------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|----------------|-------|-------|----------|-------|-------|-----------------|-------|-------|--------|-------|-------|-------|------|
|                                    | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI I | MAIFI | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI N        | MAIFI | SAIDI | SAIFI I  | MAIFI | SAIDI | SAIFI I         | MAIFI | SAIDI | SAIFI  | MAIFI | SAIDI | SAIFI | MAIF |
|                                    |       |       |       |       |         |       |       |       |       |       |                |       |       |          |       |       |                 |       |       |        |       |       |       |      |
| ARLINGTON(12KV) - Customers: 1,031 | 13.0  | 0.4   | 0.6   | 4.4   | 0.1     | 0.0   | 16.7  | 0.1   | 0.0   | 0.0   | 0.0            | 0.0   | 1.0   | 0.0      | 0.0   | 0.0   | 0.0             | 0.0   | 34.1  | 0.1    | 0.0   | 35.2  | 0.1   | 0.0  |
| 3rd Party                          | 0%    | 0%    | 0%    | 0%    | 0%      | 0%    | 22%   | 67%   | 0%    | 0%    | 0%             | 0%    | 0%    | 0%       | 0%    | 0%    | 0%              | 0%    | 0%    | 0%     | 0%    | 0%    | 0%    | 0%   |
| Equipment Failure                  | 0%    | 0%    | 0%    | 0%    | 0%      | 0%    | 77%   | 16%   | 0%    | 0%    | 0%             | 0%    | 100%  | 100%     | 0%    | 0%    | 0%              | 0%    | 0%    | 0%     | 0%    | 3%    | 10%   | 0%   |
| Operation                          | 3%    | 2%    | 0%    | 14%   | 15%     | 0%    | 1%    | 16%   | 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            | 97%   | 98%   | 100%  | 86%   | 85%     | 0%    | 0%    | 0%    | 0%    | 0%    | 0%             | 0%    | 0%    | 0%       | 0%    | 0%    | 0%              | 0%    | 100%  | 100%   | 0%    | 97%   | 90%   | 0%   |
| ASTORIA(12KV) - Customers: 802     | 11.6  | 0.1   | 0.0   | 0.0   | 0.0     | 0.0   | 54.5  | 1.1   | 2.0   | 0.9   | 0.0            | 0.0   | 0.0   | 0.0      | 0.0   | 0.0   | 0.0             | 0.0   | 0.0   | 0.0    | 1.0   | 0.9   | 0.0   | 1.0  |
| 3rd Party                          | 0%    | 0%    | 0%    | 0%    | 0%      | 0%    | 0%    | 0%    | 0%    | 27%   | 9%             | 0%    | 0%    | 0%       | 0%    | 0%    | 0%              | 0%    | 0%    | 0%     | 0%    | 27%   | 9%    | 0%   |
| Equipment Failure                  | 0%    | 0%    | 0%    | 0%    | 0%      | 0%    | 89%   | 95%   | 50%   | 0%    | 0%             | 0%    | 0%    | 0%       | 0%    | 0%    | 0%              | 0%    | 0%    | 0%     | 0%    | 0%    | 0%    | 0%   |
| Operation                          | 100%  | 100%  | 0%    | 0%    | 0%      | 0%    | 11%   | 5%    | 0%    | 73%   | 91%            | 0%    | 0%    | 0%       | 0%    | 0%    | 0%              | 0%    | 0%    | 0%     | 0%    | 73%   | 91%   | 0%   |
| Other                              | 0%    | 0%    | 0%    | 0%    | 0%      | 0%    | 0%    | 0%    | 50%   | 0%    | 0%             | 0%    | 0%    | 0%       | 0%    | 0%    | 0%              | 0%    | 0%    | 0%     | 100%  | 0%    | 0%    | 100% |
| Vegetation/Animal                  | 0%    | 0%    | 0%    | 0%    | 0%      | 0%    | 0%    | 0%    | 0%    | 0%    | 0%             | 0%    | 0%    | 0%       | 0%    | 0%    | 0%              | 0%    | 0%    | 0%     | 0%    | 0%    | 0%    | 0%   |
| Weather/Fire/Earthquake            | 0%    | 0%    | 0%    | 0%    | 0%      | 0%    | 0%    | 0%    | 0%    | 0%    | 0%             | 0%    | 0%    | 0%       | 0%    | 0%    | 0%              | 0%    | 0%    | 0%     | 0%    | 0%    | 0%    | 0%   |
| BOLLERO(12KV) - Customers: 1,524   | 78.7  | 0.7   | 1.0   | 454.0 | 3.4     | 0.6   | 91.3  | 0.3   | 0.0   | 0.0   | 0.0            | 0.0   | 54.6  | 0.1      | 0.0   | 0.0   | 0.0             | 0.0   | 18.9  | 0.0    | 0.0   | 73.5  | 0.1   | 0.0  |
| 3rd Party                          | 0%    | 0%    | 100%  | 16%   | 27%     | 32%   | 0%    | 0%    | 0%    | 0%    | 0%             | 0%    | 0%    | 0%       | 0%    | 0%    | 0%              | 0%    | 0%    | 0%     | 0%    | 0%    | 0%    | 0%   |
| Equipment Failure                  | 73%   | 25%   | 0%    | 72%   | 67%     | 68%   | 98%   | 87%   | 0%    | 0%    | 0%             | 0%    | 100%  | 100%     | 0%    | 0%    | 0%              | 0%    | 97%   | 50%    | 0%    | 99%   | 83%   | 0%   |
| Operation                          | 27%   | 74%   | 0%    | 12%   | 6%      | 0%    | 2%    | 13%   | 0%    | 0%    | 0%             | 0%    | 0%    | 0%       | 0%    | 0%    | 0%              | 0%    | 3%    | 50%    | 0%    | 1%    | 17%   | 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%   |
| CUPPLES(33KV) - Customers: 4       | 425.0 | 1.0   | 0.0   | 419.5 | 2.5     | 4.5   | 46.6  | 1.2   | 1.8   | 0.0   | 0.0            | 0.0   | 0.0   | 0.0      | 0.0   | 0.0   | 0.0             | 0.0   | 160.5 | 1.0    | 0.0   | 160.5 | 1.0   | 0.0  |
| 3rd Party                          | 0%    | 0%    | 0%    | 47%   | 80%     | 44%   | 0%    | 0%    | 0%    | 0%    | 0%             | 0%    | 0%    | 0%       | 0%    | 0%    | 0%              | 0%    | 0%    | 0%     | 0%    | 0%    | 0%    | 0%   |
| Equipment Failure                  | 100%  | 100%  | 0%    | 0%    | 0%      | 22%   | 0%    | 0%    | 0%    | 0%    | 0%             | 0%    | 0%    | 0%       | 0%    | 0%    | 0%              | 0%    | 0%    | 0%     | 0%    | 0%    | 0%    | 0%   |
| Operation                          | 0%    | 0%    | 0%    | 53%   | 20%     | 11%   | 0%    | 0%    | 0%    | 0%    | 0%             | 0%    | 0%    | 0%       | 0%    | 0%    | 0%              | 0%    | 0%    | 0%     | 0%    | 0%    | 0%    | 0%   |
| Other                              | 0%    | 0%    | 0%    | 0%    | 0%      | 22%   | 100%  | 100%  | 100%  | 0%    | 0%             | 0%    | 0%    | 0%       | 0%    | 0%    | 0%              | 0%    | 100%  | 100%   | 0%    | 100%  | 100%  | 0%   |
| Vegetation/Animal                  | 0%    | 0%    | 0%    | 0%    | 0%      | 0%    | 0%    | 0%    | 0%    | 0%    | 0%             | 0%    | 0%    | 0%       | 0%    | 0%    | 0%              | 0%    | 0%    | 0%     | 0%    | 0%    | 0%    | 0%   |
| Weather/Fire/Earthquake            | 0%    | 0%    | 0%    | 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> 1 | 16     | 2nd   | d Qtr 20 | 016   | 3rd   | Qtr 201 | 16     | 4th   | <b>Qtr 20</b> | 16     |       | 2016  |      |
|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|--------|-------|----------|-------|-------|---------|--------|-------|---------------|--------|-------|-------|------|
|                                  | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI I         | VIAIFI | SAIDI | SAIFI    | MAIFI | SAIDI | SAIFI I | VIAIFI | SAIDI | SAIFI I       | VIAIFI | SAIDI | SAIFI | MAIF |
|                                  |       |       |       |       |       |       |       |       |       |       |                 |        |       |          |       |       |         |        |       |               |        |       |       |      |
| DETROIT(4.16KV) - Customers: 57  | 35.3  | 1.0   | 0.0   | 0.0   | 0.0   | 1.0   | 0.0   |       | 0.0   | 0.0   | 0.0             | 0.0    | 0.0   | 0.0      | 0.0   | 0.0   | 0.0     | 0.0    | 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%    | 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%    | 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          | 100%  | 100%  | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    | 0%              | 0%     | 0%    | 0%       | 0%    | 0%    | 0%      | 0%     | 0%    | 0%            | 0%     | 0%    | 0%    | 0%   |
| GLACIER(12KV) - Customers: 1,123 | 2.4   | 0.0   | 1.0   | 130.6 | 1.1   | 2.0   | 88.5  | 0.3   | 0.0   | 1.0   | 0.0             | 0.0    | 0.8   | 0.0      | 0.0   | 0.0   | 0.0     | 0.0    | 55.4  | 1.0           | 0.0    | 57.2  | 1.0   | 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                | 100%  | 100%  | 0%    | 38%   | 5%    | 0%    | 0%    | 0%    | 0%    | 46%   | 4%              | 0%     | 0%    | 0%       | 0%    | 0%    | 0%      | 0%     | 0%    | 0%            | 0%     | 1%    | 0%    | 0%   |
| Operation                        | 0%    | 0%    | 0%    | 60%   | 95%   | 50%   | 100%  | 100%  | 0%    | 54%   | 96%             | 0%     | 100%  | 100%     | 0%    | 0%    | 0%      | 0%     | 0%    | 0%            | 0%     | 2%    | 3%    | 0%   |
| Other                            | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    | 0%              | 0%     | 0%    | 0%       | 0%    | 0%    | 0%      | 0%     | 100%  | 100%          | 0%     | 97%   | 97%   | 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%    | 1%    | 0%    | 50%   | 0%    | 0%    | 0%    | 0%    | 0%              | 0%     | 0%    | 0%       | 0%    | 0%    | 0%      | 0%     | 0%    | 0%            | 0%     | 0%    | 0%    | 0%   |
| KINGSFORD(12KV) - Customers: 895 | 104.9 | 1.2   | 2.2   | 24.8  | 0.0   | 0.0   | 10.0  | 0.1   | 0.0   | 0.0   | 0.0             | 0.0    | 0.0   | 0.0      | 1.0   | 0.0   | 0.0     | 0.0    | 0.0   | 0.0           | 0.0    | 0.0   | 0.0   | 1.0  |
| 3rd Party                        | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    | 4%    | 1%    | 0%    | 0%    | 0%              | 0%     | 0%    | 0%       | 0%    | 0%    | 0%      | 0%     | 0%    | 0%            | 0%     | 0%    | 0%    | 0%   |
| Equipment Failure                | 77%   | 16%   | 0%    | 100%  | 100%  | 0%    | 0%    | 0%    | 0%    | 0%    | 0%              | 0%     | 0%    | 0%       | 0%    | 0%    | 0%      | 0%     | 0%    | 0%            | 0%     | 0%    | 0%    | 0%   |
| Operation                        | 23%   | 84%   | 10%   | 0%    | 0%    | 0%    | 96%   | 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%    | 0%    | 0%              | 0%     | 0%    | 0%       | 100%  | 0%    | 0%      | 0%     | 0%    | 0%            | 0%     | 0%    | 0%    | 100% |
| Vegetation/Animal                | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    | 0%              | 0%     | 0%    | 0%       | 0%    | 0%    | 0%      | 0%     | 0%    | 0%            | 0%     | 0%    | 0%    | 0%   |
| Weather/Fire/Earthquake          | 0%    | 0%    | 90%   | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    | 0%              | 0%     | 0%    | 0%       | 0%    | 0%    | 0%      | 0%     | 0%    | 0%            | 0%     | 0%    | 0%    | 0%   |
| LA SIERRA(12KV) - Customers: 349 | 2.5   | 0.0   | 0.0   | 189.6 | 2.7   | 0.0   | 0.0   | 0.0   | 2.0   | 51.7  | 1.0             | 0.0    | 0.0   | 0.0      | 0.0   | 0.0   | 0.0     | 0.0    | 235.0 | 1.1           | 0.0    | 286.7 | 2.1   | 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%    | 46%   | 63%   | 0%    | 0%    | 0%    | 50%   | 0%    | 0%              | 0%     | 0%    | 0%       | 0%    | 0%    | 0%      | 0%     | 0%    | 0%            | 0%     | 0%    | 0%    | 0%   |
| Operation                        | 100%  | 100%  | 0%    | 54%   | 37%   | 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%    | 50%   | 100%  | 100%            | 0%     | 0%    | 0%       | 0%    | 0%    | 0%      | 0%     | 0%    | 0%            | 0%     | 18%   | 47%   | 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%     | 100%  | 100%          | 0%     | 82%   | 53%   | 0%   |

|                                    |       | 2013  |       |       | 2014    |       |       | 2015  |       | 1st   | <b>Qtr 201</b> | 6     | 2nd   | <mark>l Qtr 20</mark> . | 16    | 3rd   | Qtr 20 | 16    | 4th   | Qtr 20 | 016   |       | 2016  |       |
|------------------------------------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|----------------|-------|-------|-------------------------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|
|                                    | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI I | MAIFI | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI N        | /AIFI | SAIDI | SAIFI N                 | MAIFI | SAIDI | SAIFI  | MAIFI | SAIDI | SAIFI  | MAIFI | SAIDI | SAIFI | MAIFI |
|                                    |       |       |       |       |         |       |       |       |       |       |                |       |       |                         |       |       |        |       |       |        |       |       |       |       |
| LAB(12KV) - Customers: 847         | 2.9   | 0.0   | 0.0   | 45.2  | 0.2     | 0.0   | 210.6 | 2.2   | 1.9   | 0.0   | 0.0            | 0.0   | 0.0   | 0.0                     | 0.0   | 0.6   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.6   |       | 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%  | 0%    | 81%   | 72%     | 0%    | 94%   | 99%   | 48%   | 0%    | 0%             | 0%    | 0%    | 0%                      | 0%    | 0%    | 0%     | 0%    | 0%    | 0%     | 0%    | 0%    | 0%    | 0%    |
| Operation                          | 0%    | 0%    | 0%    | 0%    | 0%      | 0%    | 0%    | 0%    | 0%    | 0%    | 0%             | 0%    | 0%    | 0%                      | 0%    | 100%  | 100%   | 0%    | 0%    | 0%     | 0%    | 100%  | 100%  | 0%    |
| Other                              | 0%    | 0%    | 0%    | 19%   | 28%     | 0%    | 0%    | 0%    | 52%   | 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%    | 6%    | 1%    | 0%    | 0%    | 0%             | 0%    | 0%    | 0%                      | 0%    | 0%    | 0%     | 0%    | 0%    | 0%     | 0%    | 0%    | 0%    | 0%    |
| MICHAEL(12KV) - Customers: 687     | 48.5  | 0.6   | 0.4   | 48.9  | 0.3     | 0.0   | 53.9  | 0.2   | 1.0   | 0.0   | 0.0            | 0.0   | 0.0   | 0.0                     | 0.0   | 0.0   | 0.0    | 0.0   | 14.9  | 0.6    | 1.0   | 14.9  | 0.6   | 1.0   |
| 3rd Party                          | 0%    | 0%    | 0%    | 59%   | 63%     | 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%    | 0%    | 0%    | 0%    | 0%    | 0%             | 0%    | 0%    | 0%                      | 0%    | 0%    | 0%     | 0%    | 100%  | 100%   | 100%  | 100%  | 100%  | 100%  |
| Operation                          | 0%    | 0%    | 0%    | 41%   | 37%     | 0%    | 94%   | 89%   | 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%    | 6%    | 11%   | 100%  | 0%    | 0%             | 0%    | 0%    | 0%                      | 0%    | 0%    | 0%     | 0%    | 0%    | 0%     | 0%    | 0%    | 0%    | 0%    |
| NORCONIAN(4.16KV) - Customers: 240 | 33.1  | 0.9   | 0.9   | 0.0   | 0.0     | 0.0   | 0.0   | 0.0   | 1.0   | 0.0   | 0.0            | 0.0   | 0.0   | 0.0                     | 0.0   | 26.2  | 1.0    | 1.0   | 0.0   | 0.0    | 0.0   | 26.2  | 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                  | 0%    | 0%    | 0%    | 0%    | 0%      | 0%    | 0%    | 0%    | 0%    | 0%    | 0%             | 0%    | 0%    | 0%                      | 0%    | 0%    | 0%     | 0%    | 0%    | 0%     | 0%    | 0%    | 0%    | 0%    |
| Operation                          | 0%    | 0%    | 0%    | 0%    | 0%      | 0%    | 0%    | 0%    | 0%    | 0%    | 0%             | 0%    | 0%    | 0%                      | 0%    | 0%    | 0%     | 0%    | 0%    | 0%     | 0%    | 0%    | 0%    | 0%    |
| Other                              | 0%    | 0%    | 100%  | 0%    | 0%      | 0%    | 0%    | 0%    | 100%  | 0%    | 0%             | 0%    | 0%    | 0%                      | 0%    | 100%  | 100%   | 100%  | 0%    | 0%     | 0%    | 100%  | 100%  | 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            | 100%  | 100%  | 0%    | 0%    | 0%      | 0%    | 0%    | 0%    | 0%    | 0%    | 0%             | 0%    | 0%    | 0%                      | 0%    | 0%    | 0%     | 0%    | 0%    | 0%     | 0%    | 0%    | 0%    | 0%    |
| PASEO(12KV) - Customers: 2,720     | 328.0 | 0.9   | 0.7   | 67.3  | 0.3     | 0.0   | 1.4   | 0.0   | 0.0   | 0.0   | 0.0            | 0.0   | 0.0   | 0.0                     | 0.0   | 225.2 | 0.5    | 0.0   | 0.0   | 0.0    | 0.0   | 225.2 | 0.5   | 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%  | 100%  | 100%  | 100%    | 0%    | 0%    | 0%    | 0%    | 0%    | 0%             | 0%    | 0%    | 0%                      | 0%    | 100%  | 100%   | 0%    | 0%    | 0%     | 0%    | 100%  | 100%  | 0%    |
| Operation                          | 0%    | 0%    | 0%    | 0%    | 0%      | 0%    | 100%  | 100%  | 0%    | 0%    | 0%             | 0%    | 0%    | 0%                      | 0%    | 0%    | 0%     | 0%    | 0%    | 0%     | 0%    | 0%    | 0%    | 0%    |
| Other                              | 0%    | 0%    | 0%    | 0%    | 0%      | 0%    | 0%    | 0%    | 0%    | 0%    | 0%             | 0%    | 0%    | 0%                      | 0%    | 0%    | 0%     | 0%    | 0%    | 0%     | 0%    | 0%    | 0%    | 0%    |
| Vegetation/Animal                  | 0%    | 0%    | 0%    | 0%    | 0%      | 0%    | 0%    | 0%    | 0%    | 0%    | 0%             | 0%    | 0%    | 0%                      | 0%    | 0%    | 0%     | 0%    | 0%    | 0%     | 0%    | 0%    | 0%    | 0%    |
| Weather/Fire/Earthquake            | 0%    | 0%    | 0%    | 0%    | 0%      | 0%    | 0%    | 0%    | 0%    | 0%    | 0%             | 0%    | 0%    | 0%                      | 0%    | 0%    | 0%     | 0%    | 0%    | 0%     | 0%    | 0%    | 0%    | 0%    |

|                                   |       | 2013  |       |       | 2014    |       |       | 2015  |       | 1st   | <b>Qtr 20</b> | 16    | 2nd   | d Qtr 20. | 16     | 3rd   | Qtr 20 | 16    | 4th   | Qtr 20 | 16    |       | 2016  |      |
|-----------------------------------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|---------------|-------|-------|-----------|--------|-------|--------|-------|-------|--------|-------|-------|-------|------|
|                                   | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI I | MAIFI | SAIDI | SAIFI | MAIFI | SAIDI | SAIFI         | MAIFI | SAIDI | SAIFI N   | VIAIFI | SAIDI | SAIFI  | MAIFI | SAIDI | SAIFI  | MAIFI | SAIDI | SAIFI | MAIF |
|                                   |       |       |       |       |         |       |       |       |       |       |               |       |       |           |        |       |        |       |       |        |       |       |       |      |
| PROFIT(12KV) - Customers: 1,516   | 23.1  | 0.1   | 0.0   | 0.0   | 0.0     | 0.0   | 71.0  | 0.1   | 0.4   | 50.3  | 0.7           | 0.3   | 0.0   | 0.0       | 0.0    |       | 1.0    | 0.0   | 0.0   | 0.0    |       | 175.9 | 1.7   | 0.3  |
| 3rd Party                         | 0%    | 0%    | 0%    | 0%    | 0%      | 0%    | 0%    | 0%    | 0%    | 0%    | 0%            | 0%    | 0%    | 0%        | 0%     | 100%  | 100%   | 0%    | 0%    | 0%     | 0%    | 71%   | 58%   | 0%   |
| Equipment Failure                 | 48%   | 25%   | 0%    | 0%    | 0%      | 0%    | 100%  | 100%  | 100%  | 6%    | 1%            | 0%    | 0%    | 0%        | 0%     | 0%    | 0%     | 0%    | 0%    | 0%     | 0%    | 2%    | 0%    | 0%   |
| Operation                         | 52%   | 75%   | 0%    | 0%    | 0%      | 0%    | 0%    | 0%    | 0%    | 22%   | 84%           | 100%  | 0%    | 0%        | 0%     | 0%    | 0%     | 0%    | 0%    | 0%     | 0%    | 6%    | 36%   | 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%    | 72%   | 15%           | 0%    | 0%    | 0%        | 0%     | 0%    | 0%     | 0%    | 0%    | 0%     | 0%    | 21%   | 6%    | 0%   |
| QUARRY(12KV) - Customers: 1,432   | 345.3 | 1.0   | 1.0   | 7.6   | 0.0     | 0.0   | 28.3  | 0.1   | 0.0   | 0.8   | 0.0           | 0.0   | 0.0   | 0.0       | 0.0    | 0.0   | 0.0    | 0.0   | 29.6  | 0.0    | 0.0   | 30.4  | 0.0   | 0.0  |
| 3rd Party                         | 100%  | 100%  | 0%    | 0%    | 0%      | 0%    | 0%    | 0%    | 0%    | 0%    | 0%            | 0%    | 0%    | 0%        | 0%     | 0%    | 0%     | 0%    | 100%  | 100%   | 0%    | 97%   | 84%   | 0%   |
| Equipment Failure                 | 0%    | 0%    | 0%    | 23%   | 2%      | 0%    | 91%   | 65%   | 0%    | 0%    | 0%            | 0%    | 0%    | 0%        | 0%     | 0%    | 0%     | 0%    | 0%    | 0%     | 0%    | 0%    | 0%    | 0%   |
| Operation                         | 0%    | 0%    | 0%    | 77%   | 98%     | 0%    | 9%    | 35%   | 0%    | 100%  | 100%          | 0%    | 0%    | 0%        | 0%     | 0%    | 0%     | 0%    | 0%    | 0%     | 0%    | 3%    | 16%   | 0%   |
| 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%    | 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%   |
| SEVAINE(12KV) - Customers: 1,853  | 198.4 | 1.8   | 0.1   | 54.7  | 1.1     | 3.8   | 44.4  | 0.1   | 1.0   | 0.0   | 0.0           | 0.0   | 53.2  | 0.2       | 0.0    | 125.1 | 1.1    | 0.0   | 180.7 | 1.2    | 1.0   | 359.0 | 2.5   | 1.0  |
| 3rd Party                         | 0%    | 0%    | 0%    | 0%    | 0%      | 0%    | 0%    | 0%    | 0%    | 0%    | 0%            | 0%    | 0%    | 0%        | 0%     | 1%    | 0%     | 0%    | 0%    | 0%     | 0%    | 0%    | 0%    | 0%   |
| Equipment Failure                 | 90%   | 91%   | 100%  | 97%   | 99%     | 48%   | 54%   | 43%   | 100%  | 0%    | 0%            | 0%    | 95%   | 76%       | 0%     | 0%    | 0%     | 0%    | 0%    | 0%     | 0%    | 14%   | 5%    | 0%   |
| Operation                         | 10%   | 9%    | 0%    | 3%    | 1%      | 0%    | 46%   | 57%   | 0%    | 0%    | 0%            | 0%    | 5%    | 24%       | 0%     | 8%    | 3%     | 0%    | 0%    | 0%     | 0%    | 4%    | 3%    | 0%   |
| Other                             | 0%    | 0%    | 0%    | 0%    | 0%      | 52%   | 0%    | 0%    | 0%    | 0%    | 0%            | 0%    | 0%    | 0%        | 0%     | 91%   | 97%    | 0%    | 83%   | 83%    | 0%    | 73%   | 83%   | 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%    | 17%   | 17%    | 100%  | 9%    | 9%    | 100% |
| SHERIDAN(12KV) - Customers: 1,961 | 0.0   | 0.0   | 0.0   | 34.8  | 0.2     | 0.0   | 33.8  | 0.1   | 0.0   | 0.0   | 0.0           | 0.0   | 7.8   | 0.1       | 0.0    | 92.1  | 0.1    | 0.9   | 0.0   | 0.0    | 0.0   | 99.9  | 0.2   | 0.9  |
| 3rd Party                         | 0%    | 0%    | 0%    | 0%    | 0%      | 0%    | 0%    | 0%    | 0%    | 0%    | 0%            | 0%    | 0%    | 0%        | 0%     | 90%   | 73%    | 100%  | 0%    | 0%     | 0%    | 83%   | 41%   | 100% |
| Equipment Failure                 | 0%    | 0%    | 0%    | 0%    | 0%      | 0%    | 100%  | 100%  | 0%    | 0%    | 0%            | 0%    | 100%  | 100%      | 0%     | 8%    | 19%    | 0%    | 0%    | 0%     | 0%    | 15%   | 54%   | 0%   |
| Operation                         | 0%    | 0%    | 0%    | 100%  | 100%    | 0%    | 0%    | 0%    | 0%    | 0%    | 0%            | 0%    | 0%    | 0%        | 0%     | 2%    | 8%     | 0%    | 0%    | 0%     | 0%    | 2%    | 4%    | 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%   |

|                                  |       | 2013  |       |       | 2014  |       |       | 2015  |       | 1st   | Qtr 20. | 16    | 2nd   | l Qtr 20 | 016   | 3rd   | <mark>  Qtr 20</mark> | 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 |
|                                  |       |       |       |       |       |       |       |       |       |       |         |       |       |          |       |       |                       |       |       |        |       |       |       |       |
| SNIPES(12KV) - Customers: 2,054  | 2.6   | 0.0   | 0.0   | 2.0   | 0.0   | 2.0   | 101.1 | 1.2   | 1.1   | 1.8   | 0.0     | 0.0   | 0.0   | 0.0      | 0.0   | 4.5   | 0.0                   | 0.0   | 87.9  | 1.0    | 0.0   | 94.1  | 1.1   | 0.0   |
| 3rd Party                        | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    | 95%   | 96%   | 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                        | 100%  | 100%  | 0%    | 100%  | 100%  | 0%    | 5%    | 4%    | 0%    | 100%  | 100%    | 0%    | 0%    | 0%       | 0%    | 100%  | 100%                  | 0%    | 0%    | 0%     | 0%    | 7%    | 5%    | 0%    |
| Other                            | 0%    | 0%    | 0%    | 0%    | 0%    | 100%  | 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%    | 100%  | 100%   | 0%    | 93%   | 95%   | 0%    |
| WINEVILLE(12KV) - Customers: 854 | 5.5   | 0.0   | 0.0   | 4.9   | 0.0   | 0.0   | 16.7  | 0.0   | 1.0   | 0.0   | 0.0     | 0.0   | 106.2 | 1.0      | 1.9   | 0.5   | 0.0                   | 0.0   | 0.0   | 0.0    | 0.0   | 106.7 | 1.0   | 1.9   |
| 3rd Party                        | 0%    | 0%    | 0%    | 100%  | 100%  | 0%    | 0%    | 0%    | 100%  | 0%    | 0%      | 0%    | 0%    | 0%       | 0%    | 0%    | 0%                    | 0%    | 0%    | 0%     | 0%    | 0%    | 0%    | 0%    |
| Equipment Failure                | 100%  | 100%  | 0%    | 0%    | 0%    | 0%    | 21%   | 28%   | 0%    | 0%    | 0%      | 0%    | 5%    | 1%       | 0%    | 100%  | 100%                  | 0%    | 0%    | 0%     | 0%    | 6%    | 2%    | 0%    |
| Operation                        | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    | 79%   | 72%   | 0%    | 0%    | 0%      | 0%    | 5%    | 4%       | 0%    | 0%    | 0%                    | 0%    | 0%    | 0%     | 0%    | 5%    | 4%    | 0%    |
| Other                            | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    | 0%      | 0%    | 90%   | 94%      | 100%  | 0%    | 0%                    | 0%    | 0%    | 0%     | 0%    | 89%   | 94%   | 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%    |