




**Blue Grass Energy**

A Touchstone Energy Cooperative 

*Making life better, the cooperative way*

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# **Electric Distribution Utility Annual Reliability Report For 2016**

**April 2017**

APR 17 2017

**Electric Distribution Utility Annual Reliability Report**

PUBLIC SERVICE  
COMMISSION

**SECTION 1: CONTACT INFORMATION**

|                            |                      |
|----------------------------|----------------------|
| UTILITY NAME               | Blue Grass Energy    |
| REPORT PREPARED BY         | Sean Hurd            |
| E-MAIL ADDRESS OF PREPARER | seanh@bgenenergy.com |
| PHONE NUMBER OF PREPARER   | (859) 885-2120       |

**SECTION 2: REPORTING YEAR**

|                         |             |
|-------------------------|-------------|
| CALENDAR YEAR OF REPORT | <u>2016</u> |
|-------------------------|-------------|

**SECTION 3: MAJOR EVENT DAYS (MED)**

|                                        |                         |
|----------------------------------------|-------------------------|
| $T_{MED}$                              | <u>10.59</u>            |
| FIRST DATE USED TO DETERMINE $T_{MED}$ | <u>January 1 2011</u>   |
| LAST DATE USED TO DETERMINE $T_{MED}$  | <u>December 31 2015</u> |
| NUMBER OF MED IN REPORT YEAR           | <u>0</u>                |

NOTE: Per IEEE 1366  $T_{MED}$  should be calculated using the daily SAIDI values for the five prior years. If five years of data are not available, then utilities should use what is available until five years are accumulated.

**SECTION 4: SYSTEM RELIABILITY INFORMATION AND RESULTS**

**System-wide Information**

|                 |              |                |            |
|-----------------|--------------|----------------|------------|
| TOTAL CUSTOMERS | <u>56927</u> | TOTAL CIRCUITS | <u>136</u> |
|-----------------|--------------|----------------|------------|

**Excluding MED**

|       | <b>5 YEAR AVERAGE</b> |       | <b>REPORTING YEAR</b> |
|-------|-----------------------|-------|-----------------------|
| SAIDI | <u>119.68</u>         | SAIDI | <u>97.25</u>          |
| SAIFI | <u>1.1055</u>         | SAIFI | <u>0.9411</u>         |

**Including MED**

|       | <b>5 YEAR AVERAGE</b> |       | <b>REPORTING YEAR</b> |
|-------|-----------------------|-------|-----------------------|
| SAIDI | <u>233.056</u>        | SAIDI | <u>97.25</u>          |
| SAIFI | <u>1.3682</u>         | SAIFI | <u>0.9411</u>         |

Notes:

- 1) All duration indices (SAIDI) are to be reported in units of minutes.
- 2) Reports are due on the first business day of May of each year
- 3) Reports cover the calendar year ending in the December before the reports are due.
- 4) IEEE 1366 (latest version) is used to define SAIDI, SAIFI, and  $T_{MED}$

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## SECTION 5: CIRCUIT REPORTING

(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

### **CIRCUIT #1:**

1. SUBSTATION NAME AND NUMBER
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
3. CIRCUIT NAME AND NUMBER
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
5. TOTAL CIRCUIT LENGTH (MILES)
6. CUSTOMER COUNT FOR THIS CIRCUIT
- 7.. DATE OF LAST CIRCUIT TRIM (VM)
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
10. REPORTING YEAR (SAIDI)
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
12. REPORTING YEAR (SAIFI)
13. CORRECTIVE ACTION PLAN

REPEAT INFORMATION FOR EACH CIRCUIT EXCEEDING ITS 5 YEAR AVERAGE  
FOR SAIDI AND/OR SAIFI

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## SECTION 6: VEGETATION MANAGEMENT PLAN REVIEW

### INCLUDE CURRENT VEGETATION MANAGEMENT PLAN

Additional page may be attached as needed.

Vegetation Management Plan Attached in Word Document.

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## SECTION 7: UTILITY COMMENTS

Substation Name and Number 3M 37  
 Substation Location Hwy 982, Cynthiana, KY 41031  
 Circuit Name and Number 3M 114  
 Circuit Location 3M Plant  
 Total Circuit Length (Miles) 0.6  
 2016 Member Count 1  
 5 Year Average Member Count 1  
 Date of Last Trim January-15  
 Date of Next Trim 2019

| 5 Year Average |       | 2016  |       |
|----------------|-------|-------|-------|
| SAIDI          | SAIFI | SAIDI | SAIFI |
| 37             | 0.2   | 185   | 1     |

| Total Minutes/Members Interrupted | 185.00  | 1.0000  | 185.00  | 1.0000  |
|-----------------------------------|---------|---------|---------|---------|
| Equipment Fault                   | 100.00% | 100.00% | 100.00% | 100.00% |
| Wind                              | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Small Animal                      | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Squirrel                          | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Unknown Cause                     | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Deterioration                     | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Scheduled                         | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Power Supplier                    | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Bird                              | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Overload                          | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Public Accident                   | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Ice/Snow                          | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Fire                              | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Sag/Clearance                     | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Tree - ROW                        | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Lightning                         | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Tree - Non ROW                    | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Large Animal                      | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Vandalism                         | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Contractor                        | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Flash Flood                       | 0.00%   | 0.00%   | 0.00%   | 0.00%   |

**Corrections to be made:**

Equipment repaired at time of outage. No corrections necessary at this time.

|                              |                              |     |
|------------------------------|------------------------------|-----|
| Substation Name and Number   | 3M #2                        | 41  |
| Substation Location          | Hwy 982, Cynthiana, KY 41031 |     |
| Circuit Name and Number      | 3M #2                        | 164 |
| Circuit Location             | Oddville                     |     |
| Total Circuit Length (Miles) | 131.6                        |     |
| 2016 Member Count            | 1232                         |     |
| 5 Year Average Member Count  | 1220                         |     |
| Date of Last Trim            | July-16                      |     |
| Date of Next Trim            | 2022                         |     |

| 5 Year Average |             | 2016        |             |
|----------------|-------------|-------------|-------------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI       |
| 198.4727211    | 1.822106689 | 289.9212662 | 2.596590909 |

| Total Minutes/Members Interrupted | 1210511.01 | 11113.2664 | 357183.00 | 3199.0000 |
|-----------------------------------|------------|------------|-----------|-----------|
| Equipment Fault                   | 16.45%     | 13.79%     | 45.52%    | 37.54%    |
| Wind                              | 4.92%      | 2.29%      | 0.08%     | 0.06%     |
| Small Animal                      | 0.62%      | 1.29%      | 0.96%     | 2.44%     |
| Squirrel                          | 1.53%      | 1.21%      | 0.08%     | 0.25%     |
| Unknown Cause                     | 6.02%      | 17.58%     | 0.00%     | 0.00%     |
| Deterioration                     | 4.01%      | 4.13%      | 2.65%     | 3.63%     |
| Scheduled                         | 0.80%      | 1.63%      | 0.34%     | 2.25%     |
| Power Supplier                    | 19.52%     | 20.96%     | 0.00%     | 0.00%     |
| Bird                              | 0.08%      | 0.13%      | 0.00%     | 0.00%     |
| Overload                          | 0.05%      | 0.09%      | 0.00%     | 0.00%     |
| Public Accident                   | 13.78%     | 13.55%     | 39.42%    | 37.98%    |
| Ice/Snow                          | 5.34%      | 0.55%      | 0.00%     | 0.00%     |
| Fire                              | 0.00%      | 0.01%      | 0.00%     | 0.00%     |
| Sag/Clearance                     | 0.00%      | 0.00%      | 0.00%     | 0.00%     |
| Tree - ROW                        | 1.41%      | 2.01%      | 0.04%     | 0.06%     |
| Lightning                         | 21.72%     | 16.21%     | 1.38%     | 2.41%     |
| Tree - Non ROW                    | 2.42%      | 2.54%      | 5.06%     | 6.31%     |
| Large Animal                      | 0.00%      | 0.00%      | 0.00%     | 0.00%     |
| Vandalism                         | 0.00%      | 0.00%      | 0.00%     | 0.00%     |
| Contractor                        | 1.32%      | 2.03%      | 4.48%     | 7.06%     |
| Flash Flood                       | 0.00%      | 0.00%      | 0.00%     | 0.00%     |

**Corrections to be made:**

Equipment repaired at time of outage. No corrections necessary at this time.

|                              |                                 |     |
|------------------------------|---------------------------------|-----|
| Substation Name and Number   | ALCAN 1                         | 10  |
| Substation Location          | 306 Mayde Road, Berea, KY 40403 |     |
| Circuit Name and Number      | ALCAN 1                         | 124 |
| Circuit Location             | Mayde Rd/MENASHA KI USA         |     |
| Total Circuit Length (Miles) | 3.3                             |     |
| 2016 Member Count            | 44                              |     |
| 5 Year Average Member Count  | 44                              |     |
| Date of Last Trim            | February-14                     |     |
| Date of Next Trim            | 2018                            |     |

| 5 Year Average |             | 2016        |             |
|----------------|-------------|-------------|-------------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI       |
| 87.16168133    | 1.047702835 | 47.63636364 | 1.068181818 |

| Total Minutes/Members Interrupted | 19384.00 | 233.0000 | 2096.00 | 47.0000 |
|-----------------------------------|----------|----------|---------|---------|
| Equipment Fault                   | 0.00%    | 0.00%    | 0.00%   | 0.00%   |
| Wind                              | 0.00%    | 0.00%    | 0.00%   | 0.00%   |
| Small Animal                      | 7.82%    | 12.88%   | 5.53%   | 4.26%   |
| Squirrel                          | 0.00%    | 0.00%    | 0.00%   | 0.00%   |
| Unknown Cause                     | 23.74%   | 18.45%   | 0.00%   | 0.00%   |
| Deterioration                     | 40.59%   | 24.03%   | 0.00%   | 0.00%   |
| Scheduled                         | 0.00%    | 0.00%    | 0.00%   | 0.00%   |
| Power Supplier                    | 0.00%    | 0.00%    | 0.00%   | 0.00%   |
| Bird                              | 10.21%   | 19.31%   | 94.47%  | 95.74%  |
| Overload                          | 0.92%    | 0.86%    | 0.00%   | 0.00%   |
| Public Accident                   | 0.00%    | 0.00%    | 0.00%   | 0.00%   |
| Ice/Snow                          | 0.00%    | 0.00%    | 0.00%   | 0.00%   |
| Fire                              | 0.00%    | 0.00%    | 0.00%   | 0.00%   |
| Sag/Clearance                     | 0.00%    | 0.00%    | 0.00%   | 0.00%   |
| Tree - ROW                        | 9.39%    | 12.02%   | 0.00%   | 0.00%   |
| Lightning                         | 7.33%    | 12.45%   | 0.00%   | 0.00%   |
| Tree - Non ROW                    | 0.00%    | 0.00%    | 0.00%   | 0.00%   |
| Large Animal                      | 0.00%    | 0.00%    | 0.00%   | 0.00%   |
| Vandalism                         | 0.00%    | 0.00%    | 0.00%   | 0.00%   |
| Contractor                        | 0.00%    | 0.00%    | 0.00%   | 0.00%   |
| Flash Flood                       | 0.00%    | 0.00%    | 0.00%   | 0.00%   |

**Corrections to be made:**

No corrections necessary at this time.

|                              |                                 |     |
|------------------------------|---------------------------------|-----|
| Substation Name and Number   | ALCAN 2                         | 16  |
| Substation Location          | 306 Mayde Road, Berea, KY 40403 |     |
| Circuit Name and Number      | ALCAN 2                         | 144 |
| Circuit Location             | HITACHI                         |     |
| Total Circuit Length (Miles) | 1.8                             |     |
| 2016 Member Count            | 1                               |     |
| 5 Year Average Member Count  | 1                               |     |
| Date of Last Trim            | February-14                     |     |
| Date of Next Trim            | 2018                            |     |

|                                          | 5 Year Average |        | 2016   |        |
|------------------------------------------|----------------|--------|--------|--------|
|                                          | SAIDI          | SAIFI  | SAIDI  | SAIFI  |
|                                          | 13.8           | 0.4    | 69     | 2      |
| <b>Total Minutes/Members Interrupted</b> | 69.00          | 2.0000 | 69.00  | 2.0000 |
| Equipment Fault                          | 0.00%          | 0.00%  | 0.00%  | 0.00%  |
| Wind                                     | 0.00%          | 0.00%  | 0.00%  | 0.00%  |
| Small Animal                             | 81.16%         | 50.00% | 81.16% | 50.00% |
| Squirrel                                 | 0.00%          | 0.00%  | 0.00%  | 0.00%  |
| Unknown Cause                            | 0.00%          | 0.00%  | 0.00%  | 0.00%  |
| Deterioration                            | 0.00%          | 0.00%  | 0.00%  | 0.00%  |
| Scheduled                                | 0.00%          | 0.00%  | 0.00%  | 0.00%  |
| Power Supplier                           | 0.00%          | 0.00%  | 0.00%  | 0.00%  |
| Bird                                     | 0.00%          | 0.00%  | 0.00%  | 0.00%  |
| Overload                                 | 0.00%          | 0.00%  | 0.00%  | 0.00%  |
| Public Accident                          | 18.84%         | 50.00% | 18.84% | 50.00% |
| Ice/Snow                                 | 0.00%          | 0.00%  | 0.00%  | 0.00%  |
| Fire                                     | 0.00%          | 0.00%  | 0.00%  | 0.00%  |
| Sag/Clearance                            | 0.00%          | 0.00%  | 0.00%  | 0.00%  |
| Tree - ROW                               | 0.00%          | 0.00%  | 0.00%  | 0.00%  |
| Lightning                                | 0.00%          | 0.00%  | 0.00%  | 0.00%  |
| Tree - Non ROW                           | 0.00%          | 0.00%  | 0.00%  | 0.00%  |
| Large Animal                             | 0.00%          | 0.00%  | 0.00%  | 0.00%  |
| Vandalism                                | 0.00%          | 0.00%  | 0.00%  | 0.00%  |
| Contractor                               | 0.00%          | 0.00%  | 0.00%  | 0.00%  |
| Flash Flood                              | 0.00%          | 0.00%  | 0.00%  | 0.00%  |

**Corrections to be made:**

No corrections necessary at this time.



|                              |                                  |     |
|------------------------------|----------------------------------|-----|
| Substation Name and Number   | BRACKEN_COUNTY                   | 31  |
| Substation Location          | 61 New Zion Rd, Foster, KY 41043 |     |
| Circuit Name and Number      | BRACKEN_COUNTY                   | 114 |
| Circuit Location             | Blakeston                        |     |
| Total Circuit Length (Miles) | 145.1                            |     |
| 2016 Member Count            | 1060                             |     |
| 5 Year Average Member Count  | 1059                             |     |
| Date of Last Trim            | November-13                      |     |
| Date of Next Trim            | 2019                             |     |

| 5 Year Average |             | 2016        |             |
|----------------|-------------|-------------|-------------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI       |
| 199.9725271    | 1.662869128 | 304.7622642 | 2.026415094 |

| Total Minutes/Members Interrupted | 1058627.00 | 8803.0000 | 323048.00 | 2148.0000 |
|-----------------------------------|------------|-----------|-----------|-----------|
| Equipment Fault                   | 20.77%     | 29.17%    | 11.50%    | 16.62%    |
| Wind                              | 1.77%      | 2.76%     | 4.03%     | 6.66%     |
| Small Animal                      | 3.92%      | 3.48%     | 2.81%     | 5.63%     |
| Squirrel                          | 0.07%      | 0.11%     | 0.00%     | 0.00%     |
| Unknown Cause                     | 5.85%      | 8.16%     | 0.07%     | 0.05%     |
| Deterioration                     | 8.42%      | 7.01%     | 21.11%    | 22.77%    |
| Scheduled                         | 0.40%      | 1.20%     | 0.15%     | 0.84%     |
| Power Supplier                    | 0.00%      | 0.00%     | 0.00%     | 0.00%     |
| Bird                              | 0.16%      | 0.17%     | 0.00%     | 0.00%     |
| Overload                          | 0.00%      | 0.00%     | 0.00%     | 0.00%     |
| Public Accident                   | 2.37%      | 2.68%     | 0.29%     | 0.47%     |
| Ice/Snow                          | 6.60%      | 2.12%     | 0.00%     | 0.00%     |
| Fire                              | 13.02%     | 6.11%     | 42.67%    | 25.05%    |
| Sag/Clearance                     | 0.56%      | 0.82%     | 0.00%     | 0.00%     |
| Tree - ROW                        | 8.45%      | 8.72%     | 3.41%     | 2.28%     |
| Lightning                         | 23.50%     | 23.17%    | 3.66%     | 8.52%     |
| Tree - Non ROW                    | 4.13%      | 4.31%     | 10.29%    | 11.13%    |
| Large Animal                      | 0.00%      | 0.00%     | 0.00%     | 0.00%     |
| Vandalism                         | 0.00%      | 0.00%     | 0.00%     | 0.00%     |
| Contractor                        | 0.00%      | 0.00%     | 0.00%     | 0.00%     |
| Flash Flood                       | 0.00%      | 0.00%     | 0.00%     | 0.00%     |

**Corrections to be made:**

2016-2018 CWP conversion of deteriorating conductor.

Substation Name and Number BRIDGEPORT #2 42  
 Substation Location 218 Taylor Branch Rd., Frankfort, KY 40601  
 Circuit Name and Number BRIDGEPORT #2 184  
 Circuit Location Harvieland/Flat Creek  
 Total Circuit Length (Miles) 71.1  
 2016 Member Count 433  
 5 Year Average Member Count 430  
 Date of Last Trim November-14  
 Date of Next Trim 2020

| 5 Year Average |             | 2016        |            |
|----------------|-------------|-------------|------------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI      |
| 410.6953696    | 3.148759634 | 668.0263279 | 5.06221709 |

| Total Minutes/Members Interrupted | 883799.12 | 6775.9980 | 289255.40 | 2191.9400 |
|-----------------------------------|-----------|-----------|-----------|-----------|
| Equipment Fault                   | 1.86%     | 1.03%     | 0.35%     | 0.50%     |
| Wind                              | 8.82%     | 7.13%     | 6.10%     | 3.97%     |
| Small Animal                      | 0.18%     | 0.34%     | 0.31%     | 0.64%     |
| Squirrel                          | 2.58%     | 6.30%     | 0.00%     | 0.00%     |
| Unknown Cause                     | 8.31%     | 8.18%     | 2.87%     | 2.55%     |
| Deterioration                     | 1.52%     | 1.15%     | 0.11%     | 0.18%     |
| Scheduled                         | 0.00%     | 0.00%     | 0.00%     | 0.00%     |
| Power Supplier                    | 4.86%     | 7.11%     | 8.98%     | 19.75%    |
| Bird                              | 0.01%     | 0.01%     | 0.00%     | 0.00%     |
| Overload                          | 0.00%     | 0.00%     | 0.00%     | 0.00%     |
| Public Accident                   | 1.26%     | 2.33%     | 2.29%     | 4.52%     |
| Ice/Snow                          | 14.16%    | 11.81%    | 0.00%     | 0.00%     |
| Fire                              | 0.00%     | 0.00%     | 0.00%     | 0.00%     |
| Sag/Clearance                     | 0.00%     | 0.00%     | 0.00%     | 0.00%     |
| Tree - ROW                        | 7.63%     | 5.17%     | 3.21%     | 4.52%     |
| Lightning                         | 27.24%    | 28.32%    | 31.93%    | 22.81%    |
| Tree - Non ROW                    | 21.56%    | 21.10%    | 43.83%    | 40.51%    |
| Large Animal                      | 0.01%     | 0.01%     | 0.03%     | 0.05%     |
| Vandalism                         | 0.00%     | 0.00%     | 0.00%     | 0.00%     |
| Contractor                        | 0.00%     | 0.00%     | 0.00%     | 0.00%     |
| Flash Flood                       | 0.00%     | 0.00%     | 0.00%     | 0.00%     |

**Corrections to be made:**

Storm related outages. No corrections necessary at this time.

42-194

Substation Name and Number BRIDGEPORT #2 42  
 Substation Location 218 Taylor Branch Rd., Frankfort, KY 40601  
 Circuit Name and Number BRIDGEPORT #2 194  
 Circuit Location Coolbrook  
 Total Circuit Length (Miles) 34.4  
 2016 Member Count 1059  
 5 Year Average Member Count 1053  
 Date of Last Trim April-13  
 Date of Next Trim 2018

| 5 Year Average |             | 2016        |             |
|----------------|-------------|-------------|-------------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI       |
| 265.6110642    | 2.078242492 | 318.5340888 | 3.682776204 |

| Total Minutes/Members Interrupted | 1397938.23 | 10938.0031 | 337327.60 | 3900.0600 |
|-----------------------------------|------------|------------|-----------|-----------|
| Equipment Fault                   | 4.91%      | 7.20%      | 18.01%    | 18.20%    |
| Wind                              | 12.64%     | 17.88%     | 21.37%    | 24.90%    |
| Small Animal                      | 0.49%      | 1.47%      | 0.35%     | 0.67%     |
| Squirrel                          | 0.66%      | 1.55%      | 0.05%     | 0.13%     |
| Unknown Cause                     | 0.55%      | 1.21%      | 0.19%     | 0.28%     |
| Deterioration                     | 1.63%      | 1.97%      | 0.78%     | 0.56%     |
| Scheduled                         | 0.39%      | 1.32%      | 0.34%     | 1.08%     |
| Power Supplier                    | 38.21%     | 25.75%     | 18.46%    | 26.62%    |
| Bird                              | 0.54%      | 1.53%      | 0.00%     | 0.00%     |
| Overload                          | 0.03%      | 0.06%      | 0.00%     | 0.00%     |
| Public Accident                   | 0.13%      | 0.31%      | 0.00%     | 0.00%     |
| Ice/Snow                          | 0.47%      | 0.37%      | 0.00%     | 0.00%     |
| Fire                              | 0.00%      | 0.00%      | 0.00%     | 0.00%     |
| Sag/Clearance                     | 0.00%      | 0.00%      | 0.00%     | 0.00%     |
| Tree - ROW                        | 13.78%     | 16.81%     | 1.10%     | 1.62%     |
| Lightning                         | 15.80%     | 13.31%     | 22.09%    | 16.38%    |
| Tree - Non ROW                    | 9.75%      | 9.25%      | 17.18%    | 9.54%     |
| Large Animal                      | 0.00%      | 0.00%      | 0.00%     | 0.00%     |
| Vandalism                         | 0.00%      | 0.00%      | 0.00%     | 0.00%     |
| Contractor                        | 0.02%      | 0.01%      | 0.06%     | 0.03%     |
| Flash Flood                       | 0.00%      | 0.00%      | 0.00%     | 0.00%     |

**Corrections to be made:**

Storm related outages. No corrections necessary at this time.

|                              |                                         |     |
|------------------------------|-----------------------------------------|-----|
| Substation Name and Number   | CLAY_LICK                               | 26  |
| Substation Location          | 5627 Louisville, Rd., Salvisa, KY 40372 |     |
| Circuit Name and Number      | CLAY_LICK                               | 114 |
| Circuit Location             | Van Arsdell 1 Tie                       |     |
| Total Circuit Length (Miles) | 9.0                                     |     |
| 2016 Member Count            | 50                                      |     |
| 5 Year Average Member Count  | 50                                      |     |
| Date of Last Trim            | September-16                            |     |
| Date of Next Trim            | 2022                                    |     |

|                                          | 5 Year Average |            | 2016    |         |
|------------------------------------------|----------------|------------|---------|---------|
|                                          | SAIDI          | SAIFI      | SAIDI   | SAIFI   |
|                                          | 87.62493987    | 1.04947271 | 150.52  | 1.6     |
| <b>Total Minutes/Members Interrupted</b> | 21792.00       | 261.0000   | 7526.00 | 80.0000 |
| Equipment Fault                          | 24.09%         | 19.16%     | 69.76%  | 62.50%  |
| Wind                                     | 0.00%          | 0.00%      | 0.00%   | 0.00%   |
| Small Animal                             | 5.80%          | 7.66%      | 8.85%   | 11.25%  |
| Squirrel                                 | 3.82%          | 5.36%      | 0.00%   | 0.00%   |
| Unknown Cause                            | 10.25%         | 14.18%     | 0.00%   | 0.00%   |
| Deterioration                            | 1.59%          | 1.92%      | 0.00%   | 0.00%   |
| Scheduled                                | 0.00%          | 0.00%      | 0.00%   | 0.00%   |
| Power Supplier                           | 0.00%          | 0.00%      | 0.00%   | 0.00%   |
| Bird                                     | 4.30%          | 5.36%      | 0.00%   | 0.00%   |
| Overload                                 | 0.00%          | 0.00%      | 0.00%   | 0.00%   |
| Public Accident                          | 3.20%          | 4.21%      | 0.00%   | 0.00%   |
| Ice/Snow                                 | 0.00%          | 0.00%      | 0.00%   | 0.00%   |
| Fire                                     | 0.00%          | 0.00%      | 0.00%   | 0.00%   |
| Sag/Clearance                            | 0.00%          | 0.00%      | 0.00%   | 0.00%   |
| Tree - ROW                               | 4.44%          | 6.13%      | 0.00%   | 0.00%   |
| Lightning                                | 34.90%         | 27.97%     | 17.94%  | 21.25%  |
| Tree - Non ROW                           | 7.28%          | 7.28%      | 2.50%   | 2.50%   |
| Large Animal                             | 0.00%          | 0.00%      | 0.00%   | 0.00%   |
| Vandalism                                | 0.00%          | 0.00%      | 0.00%   | 0.00%   |
| Contractor                               | 0.33%          | 0.77%      | 0.96%   | 2.50%   |
| Flash Flood                              | 0.00%          | 0.00%      | 0.00%   | 0.00%   |

**Corrections to be made:**

Equipment repaired at time of outage. No corrections necessary at this time.

|                              |                                         |     |
|------------------------------|-----------------------------------------|-----|
| Substation Name and Number   | CLAY_LICK                               | 26  |
| Substation Location          | 5627 Louisville, Rd., Salvisa, KY 40372 |     |
| Circuit Name and Number      | CLAY_LICK                               | 134 |
| Circuit Location             | Lillard's Ferry/Scott's Ferry           |     |
| Total Circuit Length (Miles) | 49.5                                    |     |
| 2016 Member Count            | 347                                     |     |
| 5 Year Average Member Count  | 345                                     |     |
| Date of Last Trim            | December-16                             |     |
| Date of Next Trim            | 2022                                    |     |

| 5 Year Average |            | 2016        |             |
|----------------|------------|-------------|-------------|
| SAIDI          | SAIFI      | SAIDI       | SAIFI       |
| 153.7510488    | 1.03015584 | 159.5936599 | 0.936599424 |

| Total Minutes/Members Interrupted | 265367.00 | 1778.0000 | 55379.00 | 325.0000 |
|-----------------------------------|-----------|-----------|----------|----------|
| Equipment Fault                   | 0.63%     | 0.96%     | 0.41%    | 0.62%    |
| Wind                              | 11.23%    | 20.58%    | 0.09%    | 0.31%    |
| Small Animal                      | 0.73%     | 1.46%     | 0.54%    | 1.23%    |
| Squirrel                          | 0.54%     | 1.41%     | 0.16%    | 0.62%    |
| Unknown Cause                     | 1.54%     | 2.81%     | 0.00%    | 0.00%    |
| Deterioration                     | 0.33%     | 0.79%     | 0.33%    | 0.62%    |
| Scheduled                         | 1.19%     | 3.43%     | 0.00%    | 0.00%    |
| Power Supplier                    | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Bird                              | 0.02%     | 0.06%     | 0.00%    | 0.00%    |
| Overload                          | 0.02%     | 0.06%     | 0.00%    | 0.00%    |
| Public Accident                   | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Ice/Snow                          | 16.97%    | 8.55%     | 0.00%    | 0.00%    |
| Fire                              | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Sag/Clearance                     | 0.22%     | 0.22%     | 0.00%    | 0.00%    |
| Tree - ROW                        | 1.61%     | 1.80%     | 0.07%    | 0.31%    |
| Lightning                         | 28.99%    | 20.08%    | 0.20%    | 0.62%    |
| Tree - Non ROW                    | 35.96%    | 37.80%    | 98.19%   | 95.69%   |
| Large Animal                      | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Vandalism                         | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Contractor                        | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Flash Flood                       | 0.00%     | 0.00%     | 0.00%    | 0.00%    |

**Corrections to be made:**

No corrections necessary at this time.

|                              |                                            |     |
|------------------------------|--------------------------------------------|-----|
| Substation Name and Number   | COLEMANSVILLE                              | 32  |
| Substation Location          | Corner of HWY 1032 & 1054, Berry, KY 41003 |     |
| Circuit Name and Number      | COLEMANSVILLE                              | 114 |
| Circuit Location             | Kelat                                      |     |
| Total Circuit Length (Miles) | 64.9                                       |     |
| 2016 Member Count            | 420                                        |     |
| 5 Year Average Member Count  | 419                                        |     |
| Date of Last Trim            | January-13                                 |     |
| Date of Next Trim            | 2018                                       |     |

| 5 Year Average |             | 2016        |             |
|----------------|-------------|-------------|-------------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI       |
| 52.95851793    | 0.514090789 | 65.08333333 | 0.395238095 |

| Total Minutes/Members Interrupted | 110843.00 | 1076.0000 | 27335.00 | 166.0000 |
|-----------------------------------|-----------|-----------|----------|----------|
| Equipment Fault                   | 18.85%    | 20.17%    | 6.06%    | 16.27%   |
| Wind                              | 0.17%     | 0.37%     | 0.00%    | 0.00%    |
| Small Animal                      | 2.71%     | 3.72%     | 6.55%    | 13.86%   |
| Squirrel                          | 1.67%     | 3.81%     | 4.24%    | 19.28%   |
| Unknown Cause                     | 2.50%     | 5.11%     | 0.11%    | 0.60%    |
| Deterioration                     | 13.85%    | 19.42%    | 0.23%    | 0.60%    |
| Scheduled                         | 3.82%     | 5.11%     | 0.00%    | 0.00%    |
| Power Supplier                    | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Bird                              | 0.32%     | 0.46%     | 0.00%    | 0.00%    |
| Overload                          | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Public Accident                   | 4.52%     | 11.43%    | 0.00%    | 0.00%    |
| Ice/Snow                          | 8.16%     | 3.62%     | 0.00%    | 0.00%    |
| Fire                              | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Sag/Clearance                     | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Tree - ROW                        | 0.16%     | 0.09%     | 0.00%    | 0.00%    |
| Lightning                         | 42.20%    | 26.30%    | 78.81%   | 47.59%   |
| Tree - Non ROW                    | 1.07%     | 0.37%     | 3.99%    | 1.81%    |
| Large Animal                      | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Vandalism                         | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Contractor                        | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Flash Flood                       | 0.00%     | 0.00%     | 0.00%    | 0.00%    |

**Corrections to be made:**

Storm related outages. No corrections necessary at this time.

Substation Name and Number CROOKSVILLE 13  
 Substation Location 765 Crooksville Rd., Richmond, KY 40475  
 Circuit Name and Number CROOKSVILLE 114  
 Circuit Location Speedwell  
 Total Circuit Length (Miles) 69.7  
 2016 Member Count 625  
 5 Year Average Member Count 624  
 Date of Last Trim November-14  
 Date of Next Trim 2020

|                                          | 5 Year Average |             | 2016     |          |
|------------------------------------------|----------------|-------------|----------|----------|
|                                          | SAIDI          | SAIFI       | SAIDI    | SAIFI    |
|                                          | 61.0831094     | 0.598649789 | 68.7504  | 0.5376   |
| <b>Total Minutes/Members Interrupted</b> | 190601.00      | 1868.0000   | 42969.00 | 336.0000 |
| Equipment Fault                          | 9.45%          | 10.87%      | 8.49%    | 13.10%   |
| Wind                                     | 0.22%          | 0.27%       | 0.00%    | 0.00%    |
| Small Animal                             | 8.41%          | 9.31%       | 5.08%    | 10.71%   |
| Squirrel                                 | 0.08%          | 0.16%       | 0.00%    | 0.00%    |
| Unknown Cause                            | 10.48%         | 18.84%      | 0.00%    | 0.00%    |
| Deterioration                            | 8.39%          | 8.73%       | 5.06%    | 6.55%    |
| Scheduled                                | 0.32%          | 0.37%       | 0.00%    | 0.00%    |
| Power Supplier                           | 0.00%          | 0.00%       | 0.00%    | 0.00%    |
| Bird                                     | 3.52%          | 3.96%       | 0.00%    | 0.00%    |
| Overload                                 | 0.00%          | 0.00%       | 0.00%    | 0.00%    |
| Public Accident                          | 11.84%         | 8.78%       | 18.13%   | 19.05%   |
| Ice/Snow                                 | 0.00%          | 0.00%       | 0.00%    | 0.00%    |
| Fire                                     | 0.00%          | 0.00%       | 0.00%    | 0.00%    |
| Sag/Clearance                            | 0.00%          | 0.00%       | 0.00%    | 0.00%    |
| Tree - ROW                               | 12.21%         | 9.15%       | 30.82%   | 16.37%   |
| Lightning                                | 25.76%         | 21.41%      | 9.98%    | 11.90%   |
| Tree - Non ROW                           | 8.13%          | 6.42%       | 18.46%   | 16.67%   |
| Large Animal                             | 0.90%          | 1.02%       | 3.98%    | 5.65%    |
| Vandalism                                | 0.00%          | 0.00%       | 0.00%    | 0.00%    |
| Contractor                               | 0.29%          | 0.70%       | 0.00%    | 0.00%    |
| Flash Flood                              | 0.00%          | 0.00%       | 0.00%    | 0.00%    |

**Corrections to be made:**

Storm related outages. No corrections necessary at this time.

|                              |                                         |     |
|------------------------------|-----------------------------------------|-----|
| Substation Name and Number   | CROOKSVILLE                             | 13  |
| Substation Location          | 765 Crooksville Rd., Richmond, KY 40475 |     |
| Circuit Name and Number      | CROOKSVILLE                             | 144 |
| Circuit Location             | Crooksville Rd                          |     |
| Total Circuit Length (Miles) | 15.5                                    |     |
| 2016 Member Count            | 356                                     |     |
| 5 Year Average Member Count  | 355                                     |     |
| Date of Last Trim            | November-14                             |     |
| Date of Next Trim            | 2020                                    |     |

| 5 Year Average |             | 2016        |             |
|----------------|-------------|-------------|-------------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI       |
| 64.84582022    | 0.799502929 | 63.61797753 | 1.573033708 |

| Total Minutes/Members Interrupted | 115254.00 | 1421.0000 | 22648.00 | 560.0000 |
|-----------------------------------|-----------|-----------|----------|----------|
| Equipment Fault                   | 4.12%     | 3.45%     | 19.37%   | 7.68%    |
| Wind                              | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Small Animal                      | 3.32%     | 5.21%     | 11.79%   | 9.29%    |
| Squirrel                          | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Unknown Cause                     | 0.26%     | 0.63%     | 0.00%    | 0.00%    |
| Deterioration                     | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Scheduled                         | 0.07%     | 0.21%     | 0.33%    | 0.54%    |
| Power Supplier                    | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Bird                              | 0.30%     | 0.49%     | 0.00%    | 0.00%    |
| Overload                          | 0.03%     | 0.07%     | 0.00%    | 0.00%    |
| Public Accident                   | 21.91%    | 36.81%    | 40.29%   | 62.68%   |
| Ice/Snow                          | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Fire                              | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Sag/Clearance                     | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Tree - ROW                        | 16.09%    | 17.80%    | 28.21%   | 19.82%   |
| Lightning                         | 10.66%    | 8.52%     | 0.00%    | 0.00%    |
| Tree - Non ROW                    | 43.24%    | 26.81%    | 0.00%    | 0.00%    |
| Large Animal                      | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Vandalism                         | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Contractor                        | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Flash Flood                       | 0.00%     | 0.00%     | 0.00%    | 0.00%    |

**Corrections to be made:**

Public Accident caused outages. No corrections necessary at this time.



|                              |                                      |     |
|------------------------------|--------------------------------------|-----|
| Substation Name and Number   | DAVIS                                | 4   |
| Substation Location          | 3876 Delong Rd., Lexington, KY 40515 |     |
| Circuit Name and Number      | DAVIS                                | 134 |
| Circuit Location             | Tates Creek Estates                  |     |
| Total Circuit Length (Miles) | 4.6                                  |     |
| 2016 Member Count            | 296                                  |     |
| 5 Year Average Member Count  | 294                                  |     |
| Date of Last Trim            | December-15                          |     |
| Date of Next Trim            | 2021                                 |     |

| 5 Year Average |           | 2016        |             |
|----------------|-----------|-------------|-------------|
| SAIDI          | SAIFI     | SAIDI       | SAIFI       |
| 87.73328773    | 1.2408225 | 122.0540541 | 1.111486486 |

| Total Minutes/Members Interrupted | 128856.14 | 1822.4280 | 36128.00 | 329.0000 |
|-----------------------------------|-----------|-----------|----------|----------|
| Equipment Fault                   | 14.11%    | 7.52%     | 43.18%   | 31.61%   |
| Wind                              | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Small Animal                      | 12.65%    | 14.27%    | 31.54%   | 54.71%   |
| Squirrel                          | 1.42%     | 2.63%     | 0.00%    | 0.00%    |
| Unknown Cause                     | 9.65%     | 11.91%    | 0.00%    | 0.00%    |
| Deterioration                     | 7.05%     | 5.43%     | 0.00%    | 0.00%    |
| Scheduled                         | 1.89%     | 3.24%     | 0.00%    | 0.00%    |
| Power Supplier                    | 1.08%     | 15.22%    | 0.00%    | 0.00%    |
| Bird                              | 2.77%     | 4.39%     | 0.00%    | 0.00%    |
| Overload                          | 1.41%     | 1.70%     | 0.00%    | 0.00%    |
| Public Accident                   | 1.07%     | 2.52%     | 0.00%    | 0.00%    |
| Ice/Snow                          | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Fire                              | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Sag/Clearance                     | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Tree - ROW                        | 10.42%    | 7.57%     | 25.29%   | 13.68%   |
| Lightning                         | 34.14%    | 20.91%    | 0.00%    | 0.00%    |
| Tree - Non ROW                    | 2.34%     | 2.69%     | 0.00%    | 0.00%    |
| Large Animal                      | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Vandalism                         | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Contractor                        | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Flash Flood                       | 0.00%     | 0.00%     | 0.00%    | 0.00%    |

**Corrections to be made:**

Equipment repaired at time of outage. No corrections necessary at this time.

Substation Name and Number FAYETTE1 5  
 Substation Location 2442 Armstrong Mill, Lexington, KY 40515  
 Circuit Name and Number FAYETTE1 174  
 Circuit Location Squire Rd-Left  
 Total Circuit Length (Miles) 4.2  
 2016 Member Count 548  
 5 Year Average Member Count 548  
 Date of Last Trim October-14  
 Date of Next Trim 2018

| 5 Year Average |             | 2016        |             |
|----------------|-------------|-------------|-------------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI       |
| 69.18319001    | 0.801066596 | 194.8211679 | 1.888686131 |

| Total Minutes/Members Interrupted | 189655.00 | 2196.0000 | 106762.00 | 1035.0000 |
|-----------------------------------|-----------|-----------|-----------|-----------|
| Equipment Fault                   | 40.71%    | 37.84%    | 62.60%    | 71.40%    |
| Wind                              | 3.35%     | 2.14%     | 0.00%     | 0.00%     |
| Small Animal                      | 5.60%     | 6.28%     | 4.18%     | 6.38%     |
| Squirrel                          | 2.49%     | 4.33%     | 0.00%     | 0.00%     |
| Unknown Cause                     | 3.15%     | 5.28%     | 0.00%     | 0.00%     |
| Deterioration                     | 0.09%     | 0.14%     | 0.00%     | 0.00%     |
| Scheduled                         | 0.49%     | 2.32%     | 0.61%     | 4.25%     |
| Power Supplier                    | 0.00%     | 0.00%     | 0.00%     | 0.00%     |
| Bird                              | 0.00%     | 0.00%     | 0.00%     | 0.00%     |
| Overload                          | 0.00%     | 0.00%     | 0.00%     | 0.00%     |
| Public Accident                   | 0.00%     | 0.00%     | 0.00%     | 0.00%     |
| Ice/Snow                          | 0.00%     | 0.00%     | 0.00%     | 0.00%     |
| Fire                              | 0.00%     | 0.00%     | 0.00%     | 0.00%     |
| Sag/Clearance                     | 0.00%     | 0.00%     | 0.00%     | 0.00%     |
| Tree - ROW                        | 7.27%     | 5.28%     | 0.00%     | 0.00%     |
| Lightning                         | 7.60%     | 4.46%     | 12.44%    | 8.70%     |
| Tree - Non ROW                    | 29.07%    | 31.79%    | 20.17%    | 9.28%     |
| Large Animal                      | 0.00%     | 0.00%     | 0.00%     | 0.00%     |
| Vandalism                         | 0.16%     | 0.14%     | 0.00%     | 0.00%     |
| Contractor                        | 0.00%     | 0.00%     | 0.00%     | 0.00%     |
| Flash Flood                       | 0.00%     | 0.00%     | 0.00%     | 0.00%     |

**Corrections to be made:**

Equipment repaired at time of outage. No corrections necessary at this time.

|                              |                                          |     |
|------------------------------|------------------------------------------|-----|
| Substation Name and Number   | FAYETTE2                                 | 6   |
| Substation Location          | 2442 Armstrong Mill, Lexington, KY 40515 |     |
| Circuit Name and Number      | FAYETTE2                                 | 104 |
| Circuit Location             | Squires Rd                               |     |
| Total Circuit Length (Miles) | 1.7                                      |     |
| 2016 Member Count            | 480                                      |     |
| 5 Year Average Member Count  | 480                                      |     |
| Date of Last Trim            | May-16                                   |     |
| Date of Next Trim            | 2020                                     |     |

| 5 Year Average |             | 2016      |             |
|----------------|-------------|-----------|-------------|
| SAIDI          | SAIFI       | SAIDI     | SAIFI       |
| 80.30911106    | 0.845947152 | 158.18125 | 1.514583333 |

| Total Minutes/Members Interrupted | 192621.00 | 2029.0000 | 75927.00 | 727.0000 |
|-----------------------------------|-----------|-----------|----------|----------|
| Equipment Fault                   | 40.57%    | 26.27%    | 0.00%    | 0.00%    |
| Wind                              | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Small Animal                      | 8.29%     | 8.97%     | 17.42%   | 19.39%   |
| Squirrel                          | 3.68%     | 6.41%     | 0.00%    | 0.00%    |
| Unknown Cause                     | 1.34%     | 2.56%     | 0.00%    | 0.00%    |
| Deterioration                     | 0.30%     | 0.94%     | 0.38%    | 2.48%    |
| Scheduled                         | 1.96%     | 4.34%     | 0.84%    | 1.10%    |
| Power Supplier                    | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Bird                              | 0.17%     | 0.25%     | 0.00%    | 0.00%    |
| Overload                          | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Public Accident                   | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Ice/Snow                          | 0.14%     | 0.10%     | 0.00%    | 0.00%    |
| Fire                              | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Sag/Clearance                     | 18.42%    | 8.48%     | 46.72%   | 23.66%   |
| Tree - ROW                        | 0.15%     | 0.15%     | 0.00%    | 0.00%    |
| Lightning                         | 24.99%    | 41.55%    | 34.64%   | 53.37%   |
| Tree - Non ROW                    | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Large Animal                      | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Vandalism                         | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Contractor                        | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Flash Flood                       | 0.00%     | 0.00%     | 0.00%    | 0.00%    |

**Corrections to be made:**

Sag/Clearance issue resolved at time of outage. No corrections necessary at this time.

|                              |                                          |     |
|------------------------------|------------------------------------------|-----|
| Substation Name and Number   | FAYETTE2                                 | 6   |
| Substation Location          | 2442 Armstrong Mill, Lexington, KY 40515 |     |
| Circuit Name and Number      | FAYETTE2                                 | 124 |
| Circuit Location             | Armstrong Mill                           |     |
| Total Circuit Length (Miles) | 2.7                                      |     |
| 2016 Member Count            | 1054                                     |     |
| 5 Year Average Member Count  | 1053                                     |     |
| Date of Last Trim            | December-16                              |     |
| Date of Next Trim            | 2020                                     |     |

| 5 Year Average |             | 2016        |             |
|----------------|-------------|-------------|-------------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI       |
| 17.28484295    | 0.291074371 | 72.04459203 | 1.262808349 |

| Total Minutes/Members Interrupted | 91034.00 | 1533.0000 | 75935.00 | 1331.0000 |
|-----------------------------------|----------|-----------|----------|-----------|
| Equipment Fault                   | 11.21%   | 6.46%     | 0.00%    | 0.00%     |
| Wind                              | 0.00%    | 0.00%     | 0.00%    | 0.00%     |
| Small Animal                      | 1.63%    | 1.76%     | 0.00%    | 0.00%     |
| Squirrel                          | 0.97%    | 0.98%     | 0.00%    | 0.00%     |
| Unknown Cause                     | 2.16%    | 2.80%     | 0.42%    | 0.60%     |
| Deterioration                     | 2.49%    | 4.76%     | 2.82%    | 5.18%     |
| Scheduled                         | 3.44%    | 14.68%    | 3.12%    | 15.25%    |
| Power Supplier                    | 0.00%    | 0.00%     | 0.00%    | 0.00%     |
| Bird                              | 0.00%    | 0.00%     | 0.00%    | 0.00%     |
| Overload                          | 0.00%    | 0.00%     | 0.00%    | 0.00%     |
| Public Accident                   | 78.11%   | 68.56%    | 93.64%   | 78.96%    |
| Ice/Snow                          | 0.00%    | 0.00%     | 0.00%    | 0.00%     |
| Fire                              | 0.00%    | 0.00%     | 0.00%    | 0.00%     |
| Sag/Clearance                     | 0.00%    | 0.00%     | 0.00%    | 0.00%     |
| Tree - ROW                        | 0.00%    | 0.00%     | 0.00%    | 0.00%     |
| Lightning                         | 0.00%    | 0.00%     | 0.00%    | 0.00%     |
| Tree - Non ROW                    | 0.00%    | 0.00%     | 0.00%    | 0.00%     |
| Large Animal                      | 0.00%    | 0.00%     | 0.00%    | 0.00%     |
| Vandalism                         | 0.00%    | 0.00%     | 0.00%    | 0.00%     |
| Contractor                        | 0.00%    | 0.00%     | 0.00%    | 0.00%     |
| Flash Flood                       | 0.00%    | 0.00%     | 0.00%    | 0.00%     |

**Corrections to be made:**

Public Accident caused outages. No corrections necessary at this time.

|                              |                                          |     |
|------------------------------|------------------------------------------|-----|
| Substation Name and Number   | FAYETTE2                                 | 6   |
| Substation Location          | 2442 Armstrong Mill, Lexington, KY 40515 |     |
| Circuit Name and Number      | FAYETTE2                                 | 134 |
| Circuit Location             | Fairview                                 |     |
| Total Circuit Length (Miles) | 0.3                                      |     |
| 2016 Member Count            | 163                                      |     |
| 5 Year Average Member Count  | 163                                      |     |
| Date of Last Trim            | December-16                              |     |
| Date of Next Trim            | 2020                                     |     |

| 5 Year Average |             | 2016        |             |
|----------------|-------------|-------------|-------------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI       |
| 0.692458774    | 0.007366583 | 3.460122699 | 0.036809816 |

| Total Minutes/Members Interrupted | 5 Year Average SAIDI | 5 Year Average SAIFI | 2016 SAIDI | 2016 SAIFI |
|-----------------------------------|----------------------|----------------------|------------|------------|
| Equipment Fault                   | 0.00%                | 0.00%                | 0.00%      | 0.00%      |
| Wind                              | 0.00%                | 0.00%                | 0.00%      | 0.00%      |
| Small Animal                      | 0.00%                | 0.00%                | 0.00%      | 0.00%      |
| Squirrel                          | 0.00%                | 0.00%                | 0.00%      | 0.00%      |
| Unknown Cause                     | 0.00%                | 0.00%                | 0.00%      | 0.00%      |
| Deterioration                     | 76.60%               | 66.67%               | 76.60%     | 66.67%     |
| Scheduled                         | 23.40%               | 33.33%               | 23.40%     | 33.33%     |
| Power Supplier                    | 0.00%                | 0.00%                | 0.00%      | 0.00%      |
| Bird                              | 0.00%                | 0.00%                | 0.00%      | 0.00%      |
| Overload                          | 0.00%                | 0.00%                | 0.00%      | 0.00%      |
| Public Accident                   | 0.00%                | 0.00%                | 0.00%      | 0.00%      |
| Ice/Snow                          | 0.00%                | 0.00%                | 0.00%      | 0.00%      |
| Fire                              | 0.00%                | 0.00%                | 0.00%      | 0.00%      |
| Sag/Clearance                     | 0.00%                | 0.00%                | 0.00%      | 0.00%      |
| Tree - ROW                        | 0.00%                | 0.00%                | 0.00%      | 0.00%      |
| Lightning                         | 0.00%                | 0.00%                | 0.00%      | 0.00%      |
| Tree - Non ROW                    | 0.00%                | 0.00%                | 0.00%      | 0.00%      |
| Large Animal                      | 0.00%                | 0.00%                | 0.00%      | 0.00%      |
| Vandalism                         | 0.00%                | 0.00%                | 0.00%      | 0.00%      |
| Contractor                        | 0.00%                | 0.00%                | 0.00%      | 0.00%      |
| Flash Flood                       | 0.00%                | 0.00%                | 0.00%      | 0.00%      |

**Corrections to be made:**

No corrections necessary at this time.

|                              |                                  |       |
|------------------------------|----------------------------------|-------|
| Substation Name and Number   | FOUR_OAKS                        | 33    |
| Substation Location          | 4255 Hwy. 27 South, Falmouth, KY | 41040 |
| Circuit Name and Number      | FOUR_OAKS                        | 124   |
| Circuit Location             | Morgan                           |       |
| Total Circuit Length (Miles) | 96.0                             |       |
| 2016 Member Count            | 934                              |       |
| 5 Year Average Member Count  | 927                              |       |
| Date of Last Trim            | October-16                       |       |
| Date of Next Trim            | 2022                             |       |

| 5 Year Average |             | 2016       |             |
|----------------|-------------|------------|-------------|
| SAIDI          | SAIFI       | SAIDI      | SAIFI       |
| 150.9775256    | 1.426918252 | 130.738758 | 2.115631692 |

| Total Minutes/Members Interrupted | 700123.00 | 6617.0000 | 122110.00 | 1976.0000 |
|-----------------------------------|-----------|-----------|-----------|-----------|
| Equipment Fault                   | 10.83%    | 10.47%    | 10.17%    | 13.71%    |
| Wind                              | 3.08%     | 3.90%     | 8.38%     | 6.22%     |
| Small Animal                      | 3.88%     | 7.77%     | 1.45%     | 1.67%     |
| Squirrel                          | 0.06%     | 0.11%     | 0.00%     | 0.00%     |
| Unknown Cause                     | 4.68%     | 7.47%     | 1.12%     | 1.42%     |
| Deterioration                     | 20.86%    | 11.86%    | 28.35%    | 10.07%    |
| Scheduled                         | 2.29%     | 2.84%     | 6.54%     | 3.44%     |
| Power Supplier                    | 0.00%     | 0.00%     | 0.00%     | 0.00%     |
| Bird                              | 1.05%     | 0.94%     | 0.00%     | 0.00%     |
| Overload                          | 0.75%     | 0.97%     | 0.00%     | 0.00%     |
| Public Accident                   | 15.94%    | 19.83%    | 0.05%     | 0.05%     |
| Ice/Snow                          | 1.59%     | 0.54%     | 0.00%     | 0.00%     |
| Fire                              | 0.00%     | 0.00%     | 0.00%     | 0.00%     |
| Sag/Clearance                     | 0.00%     | 0.00%     | 0.00%     | 0.00%     |
| Tree - ROW                        | 0.05%     | 0.08%     | 0.12%     | 0.10%     |
| Lightning                         | 6.61%     | 7.83%     | 4.55%     | 4.10%     |
| Tree - Non ROW                    | 27.73%    | 24.69%    | 38.61%    | 58.30%    |
| Large Animal                      | 0.50%     | 0.44%     | 0.00%     | 0.00%     |
| Vandalism                         | 0.00%     | 0.00%     | 0.00%     | 0.00%     |
| Contractor                        | 0.11%     | 0.27%     | 0.65%     | 0.91%     |
| Flash Flood                       | 0.00%     | 0.00%     | 0.00%     | 0.00%     |

**Corrections to be made:**

2016-2018 CWP conversion of deteriorating conductor.

|                              |                                  |       |
|------------------------------|----------------------------------|-------|
| Substation Name and Number   | FOUR_OAKS                        | 33    |
| Substation Location          | 4255 Hwy. 27 South, Falmouth, KY | 41040 |
| Circuit Name and Number      | FOUR_OAKS                        | 134   |
| Circuit Location             | Sunrise                          |       |
| Total Circuit Length (Miles) | 137.9                            |       |
| 2016 Member Count            | 727                              |       |
| 5 Year Average Member Count  | 722                              |       |
| Date of Last Trim            | November-11                      |       |
| Date of Next Trim            | 2017                             |       |

| 5 Year Average |             | 2016      |             |
|----------------|-------------|-----------|-------------|
| SAIDI          | SAIFI       | SAIDI     | SAIFI       |
| 99.23311077    | 0.559353993 | 118.96011 | 0.592847318 |

| Total Minutes/Members Interrupted | 358184.00 | 2019.0000 | 86484.00 | 431.0000 |
|-----------------------------------|-----------|-----------|----------|----------|
| Equipment Fault                   | 10.61%    | 14.61%    | 0.34%    | 0.70%    |
| Wind                              | 1.19%     | 1.58%     | 0.00%    | 0.00%    |
| Small Animal                      | 3.97%     | 11.14%    | 0.87%    | 2.78%    |
| Squirrel                          | 0.05%     | 0.15%     | 0.00%    | 0.00%    |
| Unknown Cause                     | 4.61%     | 8.27%     | 0.08%    | 0.23%    |
| Deterioration                     | 9.74%     | 11.05%    | 0.00%    | 0.00%    |
| Scheduled                         | 0.07%     | 0.69%     | 0.13%    | 1.62%    |
| Power Supplier                    | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Bird                              | 0.33%     | 0.69%     | 0.00%    | 0.00%    |
| Overload                          | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Public Accident                   | 2.93%     | 3.32%     | 7.21%    | 7.42%    |
| Ice/Snow                          | 32.45%    | 16.15%    | 0.00%    | 0.00%    |
| Fire                              | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Sag/Clearance                     | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Tree - ROW                        | 2.20%     | 1.88%     | 0.00%    | 0.00%    |
| Lightning                         | 13.95%    | 17.98%    | 21.64%   | 31.32%   |
| Tree - Non ROW                    | 17.88%    | 12.48%    | 69.73%   | 55.92%   |
| Large Animal                      | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Vandalism                         | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Contractor                        | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Flash Flood                       | 0.00%     | 0.00%     | 0.00%    | 0.00%    |

**Corrections to be made:**

No corrections necessary at this time.

|                              |                                  |       |
|------------------------------|----------------------------------|-------|
| Substation Name and Number   | FOUR_OAKS                        | 33    |
| Substation Location          | 4255 Hwy. 27 South, Falmouth, KY | 41040 |
| Circuit Name and Number      | FOUR_OAKS                        | 144   |
| Circuit Location             | Hammer                           |       |
| Total Circuit Length (Miles) | 4.0                              |       |
| 2016 Member Count            | 20                               |       |
| 5 Year Average Member Count  | 20                               |       |
| Date of Last Trim            | August-16                        |       |
| Date of Next Trim            | 2022                             |       |

| 5 Year Average |             | 2016   |       |
|----------------|-------------|--------|-------|
| SAIDI          | SAIFI       | SAIDI  | SAIFI |
| 35.16649412    | 0.493458824 | 117.85 | 1.75  |

| Total Minutes/Members Interrupted | 3492.00 | 49.0000 | 2357.00 | 35.0000 |
|-----------------------------------|---------|---------|---------|---------|
| Equipment Fault                   | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Wind                              | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Small Animal                      | 6.99%   | 8.16%   | 0.00%   | 0.00%   |
| Squirrel                          | 0.92%   | 2.04%   | 0.00%   | 0.00%   |
| Unknown Cause                     | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Deterioration                     | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Scheduled                         | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Power Supplier                    | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Bird                              | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Overload                          | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Public Accident                   | 37.00%  | 38.78%  | 54.82%  | 54.29%  |
| Ice/Snow                          | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Fire                              | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Sag/Clearance                     | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Tree - ROW                        | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Lightning                         | 43.07%  | 36.73%  | 27.37%  | 25.71%  |
| Tree - Non ROW                    | 12.03%  | 14.29%  | 17.82%  | 20.00%  |
| Large Animal                      | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Vandalism                         | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Contractor                        | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Flash Flood                       | 0.00%   | 0.00%   | 0.00%   | 0.00%   |

**Corrections to be made:**

Public Accident caused outages. No corrections necessary at this time.



Substation Name and Number HEADQUARTERS 36  
 Substation Location 2195 Saltwell Hedquarters, Rd., Carlisle, KY 40311  
 Circuit Name and Number HEADQUARTERS 124  
 Circuit Location Colville  
 Total Circuit Length (Miles) 29.0  
 2016 Member Count 177  
 5 Year Average Member Count 176  
 Date of Last Trim August-16  
 Date of Next Trim 2022

| 5 Year Average |             | 2016        |             |
|----------------|-------------|-------------|-------------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI       |
| 67.98320861    | 0.807559365 | 71.53107345 | 0.711864407 |

| Total Minutes/Members Interrupted | 59923.35 | 711.8179 | 12661.00 | 126.0000 |
|-----------------------------------|----------|----------|----------|----------|
| Equipment Fault                   | 19.13%   | 8.99%    | 69.11%   | 39.68%   |
| Wind                              | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Small Animal                      | 18.13%   | 9.41%    | 0.69%    | 0.79%    |
| Squirrel                          | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Unknown Cause                     | 1.90%    | 2.95%    | 1.61%    | 3.17%    |
| Deterioration                     | 17.35%   | 26.69%   | 0.00%    | 0.00%    |
| Scheduled                         | 0.10%    | 0.14%    | 0.48%    | 0.79%    |
| Power Supplier                    | 12.11%   | 24.28%   | 0.00%    | 0.00%    |
| Bird                              | 1.99%    | 1.55%    | 0.00%    | 0.00%    |
| Overload                          | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Public Accident                   | 0.25%    | 0.28%    | 0.00%    | 0.00%    |
| Ice/Snow                          | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Fire                              | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Sag/Clearance                     | 6.08%    | 3.65%    | 1.93%    | 3.17%    |
| Tree - ROW                        | 0.51%    | 0.28%    | 0.00%    | 0.00%    |
| Lightning                         | 20.23%   | 19.95%   | 26.18%   | 52.38%   |
| Tree - Non ROW                    | 1.02%    | 0.28%    | 0.00%    | 0.00%    |
| Large Animal                      | 1.19%    | 1.55%    | 0.00%    | 0.00%    |
| Vandalism                         | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Contractor                        | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Flash Flood                       | 0.00%    | 0.00%    | 0.00%    | 0.00%    |

**Corrections to be made:**

Equipment repaired at time of outage. No corrections necessary at this time.

Substation Name and Number HICKORY PLAINS 9  
 Substation Location 1075 Old US 25, Berea, KY 40403  
 Circuit Name and Number HICKORY PLAINS 104  
 Circuit Location Old US 25  
 Total Circuit Length (Miles) 12.7  
 2016 Member Count 257  
 5 Year Average Member Count 255  
 Date of Last Trim January-12  
 Date of Next Trim 2018

| 5 Year Average |             | 2016        |             |
|----------------|-------------|-------------|-------------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI       |
| 28.47914726    | 0.438623593 | 77.82101167 | 1.229571984 |

| Total Minutes/Members Interrupted | 36295.00 | 559.0000 | 20000.00 | 316.0000 |
|-----------------------------------|----------|----------|----------|----------|
| Equipment Fault                   | 0.77%    | 1.43%    | 0.00%    | 0.00%    |
| Wind                              | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Small Animal                      | 16.04%   | 16.64%   | 15.15%   | 15.19%   |
| Squirrel                          | 0.40%    | 0.54%    | 0.00%    | 0.00%    |
| Unknown Cause                     | 8.60%    | 10.20%   | 0.00%    | 0.00%    |
| Deterioration                     | 45.62%   | 47.23%   | 82.80%   | 83.54%   |
| Scheduled                         | 0.26%    | 0.18%    | 0.00%    | 0.00%    |
| Power Supplier                    | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Bird                              | 0.90%    | 1.43%    | 0.00%    | 0.00%    |
| Overload                          | 1.14%    | 0.72%    | 2.06%    | 1.27%    |
| Public Accident                   | 9.55%    | 5.37%    | 0.00%    | 0.00%    |
| Ice/Snow                          | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Fire                              | 1.14%    | 0.54%    | 0.00%    | 0.00%    |
| Sag/Clearance                     | 2.15%    | 1.97%    | 0.00%    | 0.00%    |
| Tree - ROW                        | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Lightning                         | 12.05%   | 11.81%   | 0.00%    | 0.00%    |
| Tree - Non ROW                    | 1.36%    | 1.97%    | 0.00%    | 0.00%    |
| Large Animal                      | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Vandalism                         | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Contractor                        | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Flash Flood                       | 0.00%    | 0.00%    | 0.00%    | 0.00%    |

**Corrections to be made:**

Equipment repaired at time of outage. No corrections necessary at this time.

Substation Name and Number HICKORY PLAINS 9  
 Substation Location 1075 Old US 25, Berea, KY 40403  
 Circuit Name and Number HICKORY PLAINS 124  
 Circuit Location Wildlife Preserve  
 Total Circuit Length (Miles) 46.3  
 2016 Member Count 749  
 5 Year Average Member Count 743  
 Date of Last Trim April-13  
 Date of Next Trim 2017

| 5 Year Average |             | 2016        |             |
|----------------|-------------|-------------|-------------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI       |
| 80.90645799    | 0.744973193 | 100.9078772 | 1.217623498 |

| Total Minutes/Members Interrupted | 300505.00 | 2767.0000 | 75580.00 | 912.0000 |
|-----------------------------------|-----------|-----------|----------|----------|
| Equipment Fault                   | 45.24%    | 30.86%    | 0.11%    | 0.33%    |
| Wind                              | 1.23%     | 1.77%     | 0.24%    | 0.22%    |
| Small Animal                      | 1.80%     | 3.90%     | 1.60%    | 2.74%    |
| Squirrel                          | 5.72%     | 4.77%     | 0.00%    | 0.00%    |
| Unknown Cause                     | 24.50%    | 34.22%    | 80.83%   | 81.69%   |
| Deterioration                     | 0.42%     | 0.98%     | 0.00%    | 0.00%    |
| Scheduled                         | 0.82%     | 0.80%     | 2.03%    | 1.64%    |
| Power Supplier                    | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Bird                              | 0.19%     | 0.51%     | 0.00%    | 0.00%    |
| Overload                          | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Public Accident                   | 9.30%     | 8.42%     | 5.73%    | 4.93%    |
| Ice/Snow                          | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Fire                              | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Sag/Clearance                     | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Tree - ROW                        | 2.61%     | 3.07%     | 6.94%    | 4.71%    |
| Lightning                         | 1.99%     | 2.78%     | 1.18%    | 2.08%    |
| Tree - Non ROW                    | 6.17%     | 7.91%     | 1.35%    | 1.64%    |
| Large Animal                      | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Vandalism                         | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Contractor                        | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Flash Flood                       | 0.00%     | 0.00%     | 0.00%    | 0.00%    |

**Corrections to be made:**

No corrections necessary at this time.

|                              |                                 |     |
|------------------------------|---------------------------------|-----|
| Substation Name and Number   | HICKORY PLAINS                  | 9   |
| Substation Location          | 1075 Old US 25, Berea, KY 40403 |     |
| Circuit Name and Number      | HICKORY PLAINS                  | 144 |
| Circuit Location             | Silver Creek/Rainbow Sub        |     |
| Total Circuit Length (Miles) | 20.7                            |     |
| 2016 Member Count            | 697                             |     |
| 5 Year Average Member Count  | 691                             |     |
| Date of Last Trim            | December-14                     |     |
| Date of Next Trim            | 2020                            |     |

| 5 Year Average |             | 2016        |             |
|----------------|-------------|-------------|-------------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI       |
| 54.10656964    | 0.821383394 | 87.71018651 | 1.193687231 |

| Total Minutes/Members Interrupted | 187012.00 | 2839.0000 | 61134.00 | 832.0000 |
|-----------------------------------|-----------|-----------|----------|----------|
| Equipment Fault                   | 6.88%     | 3.87%     | 4.62%    | 3.00%    |
| Wind                              | 0.07%     | 0.21%     | 0.00%    | 0.00%    |
| Small Animal                      | 11.77%    | 14.16%    | 8.62%    | 12.38%   |
| Squirrel                          | 1.07%     | 0.70%     | 0.56%    | 0.60%    |
| Unknown Cause                     | 27.23%    | 24.59%    | 0.00%    | 0.00%    |
| Deterioration                     | 3.65%     | 1.90%     | 0.00%    | 0.00%    |
| Scheduled                         | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Power Supplier                    | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Bird                              | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Overload                          | 0.98%     | 0.74%     | 0.00%    | 0.00%    |
| Public Accident                   | 28.96%    | 24.73%    | 85.02%   | 83.29%   |
| Ice/Snow                          | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Fire                              | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Sag/Clearance                     | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Tree - ROW                        | 12.82%    | 24.87%    | 0.00%    | 0.00%    |
| Lightning                         | 2.40%     | 2.04%     | 0.00%    | 0.00%    |
| Tree - Non ROW                    | 4.16%     | 2.18%     | 1.18%    | 0.72%    |
| Large Animal                      | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Vandalism                         | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Contractor                        | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Flash Flood                       | 0.00%     | 0.00%     | 0.00%    | 0.00%    |

**Corrections to be made:**

Public Accident caused outages. No corrections necessary at this time.

Substation Name and Number HICKORY PLAINS 9  
 Substation Location 1075 Old US 25, Berea, KY 40403  
 Circuit Name and Number HICKORY PLAINS 154  
 Circuit Location North-City of Berea  
 Total Circuit Length (Miles) 10.2  
 2016 Member Count 407  
 5 Year Average Member Count 404  
 Date of Last Trim March-13  
 Date of Next Trim 2018

| 5 Year Average |             | 2016        |             |
|----------------|-------------|-------------|-------------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI       |
| 43.36021895    | 0.512813258 | 142.1203931 | 1.373464373 |

| Total Minutes/Members Interrupted | 87513.00 | 1035.0000 | 57843.00 | 559.0000 |
|-----------------------------------|----------|-----------|----------|----------|
| Equipment Fault                   | 6.21%    | 4.54%     | 7.49%    | 6.80%    |
| Wind                              | 2.32%    | 3.67%     | 0.00%    | 0.00%    |
| Small Animal                      | 6.07%    | 11.79%    | 2.99%    | 6.26%    |
| Squirrel                          | 0.11%    | 0.29%     | 0.00%    | 0.00%    |
| Unknown Cause                     | 6.75%    | 9.95%     | 0.00%    | 0.00%    |
| Deterioration                     | 3.75%    | 3.77%     | 4.76%    | 6.08%    |
| Scheduled                         | 0.90%    | 0.87%     | 0.40%    | 0.72%    |
| Power Supplier                    | 0.00%    | 0.00%     | 0.00%    | 0.00%    |
| Bird                              | 0.00%    | 0.00%     | 0.00%    | 0.00%    |
| Overload                          | 0.32%    | 0.39%     | 0.00%    | 0.00%    |
| Public Accident                   | 0.27%    | 0.29%     | 0.00%    | 0.00%    |
| Ice/Snow                          | 0.00%    | 0.00%     | 0.00%    | 0.00%    |
| Fire                              | 0.00%    | 0.00%     | 0.00%    | 0.00%    |
| Sag/Clearance                     | 0.00%    | 0.00%     | 0.00%    | 0.00%    |
| Tree - ROW                        | 14.35%   | 9.86%     | 8.08%    | 5.90%    |
| Lightning                         | 57.53%   | 49.95%    | 75.67%   | 73.52%   |
| Tree - Non ROW                    | 1.41%    | 4.64%     | 0.62%    | 0.72%    |
| Large Animal                      | 0.00%    | 0.00%     | 0.00%    | 0.00%    |
| Vandalism                         | 0.00%    | 0.00%     | 0.00%    | 0.00%    |
| Contractor                        | 0.00%    | 0.00%     | 0.00%    | 0.00%    |
| Flash Flood                       | 0.00%    | 0.00%     | 0.00%    | 0.00%    |

**Corrections to be made:**

Storm related outages. No corrections necessary at this time.

|                              |                                 |     |
|------------------------------|---------------------------------|-----|
| Substation Name and Number   | HICKORY PLAINS                  | 9   |
| Substation Location          | 1075 Old US 25, Berea, KY 40403 |     |
| Circuit Name and Number      | HICKORY PLAINS                  | 164 |
| Circuit Location             | Richmond Rd                     |     |
| Total Circuit Length (Miles) | 19.7                            |     |
| 2016 Member Count            | 390                             |     |
| 5 Year Average Member Count  | 387                             |     |
| Date of Last Trim            | October-16                      |     |
| Date of Next Trim            | 2022                            |     |

| 5 Year Average |             | 2016        |             |
|----------------|-------------|-------------|-------------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI       |
| 66.38651881    | 0.612209972 | 213.0666667 | 2.258974359 |

| Total Minutes/Members Interrupted | 128390.00 | 1184.0000 | 83096.00 | 881.0000 |
|-----------------------------------|-----------|-----------|----------|----------|
| Equipment Fault                   | 34.19%    | 31.50%    | 52.57%   | 41.88%   |
| Wind                              | 1.29%     | 2.45%     | 1.99%    | 3.29%    |
| Small Animal                      | 4.86%     | 9.12%     | 3.46%    | 4.99%    |
| Squirrel                          | 0.50%     | 1.10%     | 0.14%    | 0.23%    |
| Unknown Cause                     | 2.89%     | 5.32%     | 0.00%    | 0.00%    |
| Deterioration                     | 22.40%    | 30.74%    | 34.61%   | 41.32%   |
| Scheduled                         | 0.22%     | 0.34%     | 0.00%    | 0.00%    |
| Power Supplier                    | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Bird                              | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Overload                          | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Public Accident                   | 22.36%    | 5.07%     | 0.03%    | 0.11%    |
| Ice/Snow                          | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Fire                              | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Sag/Clearance                     | 1.85%     | 2.45%     | 2.86%    | 3.29%    |
| Tree - ROW                        | 2.80%     | 3.46%     | 2.85%    | 2.95%    |
| Lightning                         | 5.45%     | 7.01%     | 1.34%    | 1.70%    |
| Tree - Non ROW                    | 1.19%     | 1.44%     | 0.17%    | 0.23%    |
| Large Animal                      | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Vandalism                         | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Contractor                        | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Flash Flood                       | 0.00%     | 0.00%     | 0.00%    | 0.00%    |

**Corrections to be made:**

Equipment repaired at time of outage. No corrections necessary at this time.

2-124

|                              |                                               |     |
|------------------------------|-----------------------------------------------|-----|
| Substation Name and Number   | HOLLOWAY                                      | 2   |
| Substation Location          | 6447 Harrodsburg Rd., Nicholasville, KY 40356 |     |
| Circuit Name and Number      | HOLLOWAY                                      | 124 |
| Circuit Location             | Keene                                         |     |
| Total Circuit Length (Miles) | 27.1                                          |     |
| 2016 Member Count            | 374                                           |     |
| 5 Year Average Member Count  | 374                                           |     |
| Date of Last Trim            | December-14                                   |     |
| Date of Next Trim            | 2020                                          |     |

|  |                       |              |              |              |
|--|-----------------------|--------------|--------------|--------------|
|  | <b>5 Year Average</b> |              | <b>2016</b>  |              |
|  | <b>SAIDI</b>          | <b>SAIFI</b> | <b>SAIDI</b> | <b>SAIFI</b> |
|  | 88.21481796           | 1.280900032  | 131.6069519  | 1.211229947  |

| <b>Total Minutes/Members Interrupted</b> | 164775.42 | 2392.5781 | 49221.00 | 453.0000 |
|------------------------------------------|-----------|-----------|----------|----------|
| Equipment Fault                          | 0.72%     | 0.42%     | 0.64%    | 0.44%    |
| Wind                                     | 0.17%     | 0.25%     | 0.00%    | 0.00%    |
| Small Animal                             | 1.74%     | 2.47%     | 1.98%    | 4.19%    |
| Squirrel                                 | 0.66%     | 1.00%     | 0.17%    | 0.44%    |
| Unknown Cause                            | 2.65%     | 3.09%     | 0.00%    | 0.00%    |
| Deterioration                            | 1.07%     | 0.79%     | 0.00%    | 0.00%    |
| Scheduled                                | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Power Supplier                           | 16.36%    | 28.74%    | 0.00%    | 0.00%    |
| Bird                                     | 0.08%     | 0.13%     | 0.00%    | 0.00%    |
| Overload                                 | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Public Accident                          | 15.51%    | 11.41%    | 0.16%    | 0.22%    |
| Ice/Snow                                 | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Fire                                     | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Sag/Clearance                            | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Tree - ROW                               | 3.25%     | 2.67%     | 3.80%    | 3.97%    |
| Lightning                                | 11.07%    | 16.30%    | 0.00%    | 0.00%    |
| Tree - Non ROW                           | 46.56%    | 32.56%    | 92.91%   | 90.07%   |
| Large Animal                             | 0.14%     | 0.17%     | 0.34%    | 0.66%    |
| Vandalism                                | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Contractor                               | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Flash Flood                              | 0.00%     | 0.00%     | 0.00%    | 0.00%    |

**Corrections to be made:**

No corrections necessary at this time.

|                              |                                            |     |
|------------------------------|--------------------------------------------|-----|
| Substation Name and Number   | JACKSONVILLE                               | 39  |
| Substation Location          | 1386 Russell Cave Rd., Cynthiana, KY 41031 |     |
| Circuit Name and Number      | JACKSONVILLE                               | 104 |
| Circuit Location             | Broadwell                                  |     |
| Total Circuit Length (Miles) | 28.4                                       |     |
| 2016 Member Count            | 185                                        |     |
| 5 Year Average Member Count  | 183                                        |     |
| Date of Last Trim            | April-14                                   |     |
| Date of Next Trim            | 2020                                       |     |

| 5 Year Average |             | 2016        |             |
|----------------|-------------|-------------|-------------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI       |
| 66.470132      | 1.009485219 | 100.7405405 | 1.162162162 |

| Total Minutes/Members Interrupted | 60973.00 | 926.0000 | 18637.00 | 215.0000 |
|-----------------------------------|----------|----------|----------|----------|
| Equipment Fault                   | 22.77%   | 26.67%   | 0.54%    | 0.47%    |
| Wind                              | 0.41%    | 0.11%    | 0.00%    | 0.00%    |
| Small Animal                      | 4.71%    | 6.26%    | 1.63%    | 1.86%    |
| Squirrel                          | 0.14%    | 0.22%    | 0.00%    | 0.00%    |
| Unknown Cause                     | 18.05%   | 10.91%   | 0.00%    | 0.00%    |
| Deterioration                     | 3.28%    | 4.43%    | 0.60%    | 1.86%    |
| Scheduled                         | 1.66%    | 3.78%    | 3.95%    | 14.88%   |
| Power Supplier                    | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Bird                              | 0.23%    | 0.32%    | 0.00%    | 0.00%    |
| Overload                          | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Public Accident                   | 8.02%    | 4.10%    | 26.24%   | 17.67%   |
| Ice/Snow                          | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Fire                              | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Sag/Clearance                     | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Tree - ROW                        | 0.61%    | 0.22%    | 0.80%    | 0.47%    |
| Lightning                         | 26.45%   | 20.30%   | 52.37%   | 45.12%   |
| Tree - Non ROW                    | 13.44%   | 22.46%   | 13.86%   | 17.67%   |
| Large Animal                      | 0.23%    | 0.22%    | 0.00%    | 0.00%    |
| Vandalism                         | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Contractor                        | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Flash Flood                       | 0.00%    | 0.00%    | 0.00%    | 0.00%    |

**Corrections to be made:**

No corrections necessary at this time.



|                              |                                                  |     |
|------------------------------|--------------------------------------------------|-----|
| Substation Name and Number   | MERCER_CO                                        | 25  |
| Substation Location          | 754 Industrial Park Drive, Harrodsburg, KY 40330 |     |
| Circuit Name and Number      | MERCER_CO                                        | 104 |
| Circuit Location             | Mercer Co. Schools                               |     |
| Total Circuit Length (Miles) | 1.3                                              |     |
| 2016 Member Count            | 20                                               |     |
| 5 Year Average Member Count  | 20                                               |     |
| Date of Last Trim            | January-16                                       |     |
| Date of Next Trim            | 2021                                             |     |

| 5 Year Average |             | 2016  |       |
|----------------|-------------|-------|-------|
| SAIDI          | SAIFI       | SAIDI | SAIFI |
| 39.29092224    | 0.510922242 | 58.8  | 0.6   |

| Total Minutes/Members Interrupted | 3922.00 | 51.0000 | 1176.00 | 12.0000 |
|-----------------------------------|---------|---------|---------|---------|
| Equipment Fault                   | 25.70%  | 15.69%  | 0.00%   | 0.00%   |
| Wind                              | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Small Animal                      | 2.29%   | 3.92%   | 3.66%   | 8.33%   |
| Squirrel                          | 8.85%   | 17.65%  | 23.13%  | 66.67%  |
| Unknown Cause                     | 14.89%  | 15.69%  | 0.00%   | 0.00%   |
| Deterioration                     | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Scheduled                         | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Power Supplier                    | 17.44%  | 37.25%  | 0.00%   | 0.00%   |
| Bird                              | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Overload                          | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Public Accident                   | 12.39%  | 3.92%   | 41.33%  | 16.67%  |
| Ice/Snow                          | 9.56%   | 1.96%   | 31.89%  | 8.33%   |
| Fire                              | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Sag/Clearance                     | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Tree - ROW                        | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Lightning                         | 8.87%   | 3.92%   | 0.00%   | 0.00%   |
| Tree - Non ROW                    | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Large Animal                      | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Vandalism                         | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Contractor                        | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Flash Flood                       | 0.00%   | 0.00%   | 0.00%   | 0.00%   |

**Corrections to be made:**

No corrections necessary at this time.

38-104

Substation Name and Number MILLERSBURG 38  
 Substation Location 1024 Miller Station Rd., Carlisle, KY 40311  
 Circuit Name and Number MILLERSBURG 104  
 Circuit Location Lake Carnico  
 Total Circuit Length (Miles) 88.6  
 2016 Member Count 384  
 5 Year Average Member Count 382  
 Date of Last Trim October-13  
 Date of Next Trim 2019

| 5 Year Average |             | 2016        |             |
|----------------|-------------|-------------|-------------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI       |
| 215.4034877    | 1.411603876 | 239.0560104 | 2.275005208 |

| Total Minutes/Members Interrupted | 411552.33 | 2697.0262 | 91797.51 | 873.6020 |
|-----------------------------------|-----------|-----------|----------|----------|
| Equipment Fault                   | 8.28%     | 8.79%     | 7.62%    | 4.24%    |
| Wind                              | 4.73%     | 3.93%     | 10.55%   | 5.15%    |
| Small Animal                      | 1.45%     | 2.82%     | 2.56%    | 2.52%    |
| Squirrel                          | 0.10%     | 0.19%     | 0.09%    | 0.11%    |
| Unknown Cause                     | 1.73%     | 3.45%     | 0.00%    | 0.00%    |
| Deterioration                     | 6.54%     | 6.82%     | 28.28%   | 19.23%   |
| Scheduled                         | 2.28%     | 9.12%     | 3.40%    | 7.90%    |
| Power Supplier                    | 9.31%     | 27.74%    | 21.86%   | 42.54%   |
| Bird                              | 0.15%     | 0.37%     | 0.00%    | 0.00%    |
| Overload                          | 0.02%     | 0.04%     | 0.00%    | 0.00%    |
| Public Accident                   | 0.48%     | 0.48%     | 0.00%    | 0.00%    |
| Ice/Snow                          | 14.06%    | 5.27%     | 0.00%    | 0.00%    |
| Fire                              | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Sag/Clearance                     | 0.02%     | 0.04%     | 0.00%    | 0.00%    |
| Tree - ROW                        | 1.88%     | 0.70%     | 0.00%    | 0.00%    |
| Lightning                         | 35.88%    | 22.25%    | 0.00%    | 0.00%    |
| Tree - Non ROW                    | 13.08%    | 8.01%     | 25.64%   | 18.31%   |
| Large Animal                      | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Vandalism                         | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Contractor                        | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Flash Flood                       | 0.00%     | 0.00%     | 0.00%    | 0.00%    |

**Corrections to be made:**

No corrections necessary at this time.

|                              |                                             |     |
|------------------------------|---------------------------------------------|-----|
| Substation Name and Number   | MILLERSBURG                                 | 38  |
| Substation Location          | 1024 Miller Station Rd., Carlisle, KY 40311 |     |
| Circuit Name and Number      | MILLERSBURG                                 | 114 |
| Circuit Location             | Little Rock                                 |     |
| Total Circuit Length (Miles) | 89.1                                        |     |
| 2016 Member Count            | 469                                         |     |
| 5 Year Average Member Count  | 467                                         |     |
| Date of Last Trim            | March-14                                    |     |
| Date of Next Trim            | 2020                                        |     |

| 5 Year Average |             | 2016        |             |
|----------------|-------------|-------------|-------------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI       |
| 131.8163753    | 1.093312999 | 115.7048827 | 1.340266525 |

| Total Minutes/Members Interrupted | 307597.86 | 2551.2820 | 54265.59 | 628.5850 |
|-----------------------------------|-----------|-----------|----------|----------|
| Equipment Fault                   | 1.57%     | 1.57%     | 0.88%    | 0.64%    |
| Wind                              | 0.19%     | 0.04%     | 0.00%    | 0.00%    |
| Small Animal                      | 0.59%     | 1.02%     | 0.51%    | 0.64%    |
| Squirrel                          | 4.29%     | 3.57%     | 0.11%    | 0.16%    |
| Unknown Cause                     | 5.30%     | 7.92%     | 5.62%    | 7.95%    |
| Deterioration                     | 0.43%     | 0.51%     | 0.12%    | 0.16%    |
| Scheduled                         | 1.65%     | 4.51%     | 0.00%    | 0.00%    |
| Power Supplier                    | 14.28%    | 35.88%    | 45.53%   | 72.80%   |
| Bird                              | 0.04%     | 0.04%     | 0.00%    | 0.00%    |
| Overload                          | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Public Accident                   | 7.52%     | 5.68%     | 0.00%    | 0.00%    |
| Ice/Snow                          | 27.65%    | 13.95%    | 0.00%    | 0.00%    |
| Fire                              | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Sag/Clearance                     | 0.77%     | 1.49%     | 0.00%    | 0.00%    |
| Tree - ROW                        | 3.01%     | 2.82%     | 0.00%    | 0.00%    |
| Lightning                         | 22.46%    | 17.17%    | 31.50%   | 14.95%   |
| Tree - Non ROW                    | 10.24%    | 3.84%     | 15.73%   | 2.70%    |
| Large Animal                      | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Vandalism                         | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Contractor                        | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Flash Flood                       | 0.00%     | 0.00%     | 0.00%    | 0.00%    |

**Corrections to be made:**

Power Supplier caused outages. No corrections necessary at this time.

|                              |                                             |     |
|------------------------------|---------------------------------------------|-----|
| Substation Name and Number   | MILLERSBURG                                 | 38  |
| Substation Location          | 1024 Miller Station Rd., Carlisle, KY 40311 |     |
| Circuit Name and Number      | MILLERSBURG                                 | 124 |
| Circuit Location             | Taylors Creek                               |     |
| Total Circuit Length (Miles) | 34.2                                        |     |
| 2016 Member Count            | 360                                         |     |
| 5 Year Average Member Count  | 358                                         |     |
| Date of Last Trim            | October-16                                  |     |
| Date of Next Trim            | 2022                                        |     |

| 5 Year Average |             | 2016      |             |
|----------------|-------------|-----------|-------------|
| SAIDI          | SAIFI       | SAIDI     | SAIFI       |
| 150.5656016    | 1.513340078 | 145.14695 | 2.060591667 |

| Total Minutes/Members Interrupted | 269692.81 | 2710.6918 | 52252.90 | 741.8130 |
|-----------------------------------|-----------|-----------|----------|----------|
| Equipment Fault                   | 9.99%     | 7.56%     | 0.00%    | 0.00%    |
| Wind                              | 11.67%    | 5.35%     | 6.50%    | 5.80%    |
| Small Animal                      | 6.49%     | 9.04%     | 27.68%   | 26.29%   |
| Squirrel                          | 0.89%     | 1.11%     | 0.00%    | 0.00%    |
| Unknown Cause                     | 0.08%     | 0.15%     | 0.00%    | 0.00%    |
| Deterioration                     | 3.56%     | 4.46%     | 0.00%    | 0.00%    |
| Scheduled                         | 18.60%    | 12.91%    | 0.00%    | 0.00%    |
| Power Supplier                    | 12.63%    | 26.18%    | 36.56%   | 47.70%   |
| Bird                              | 0.01%     | 0.04%     | 0.00%    | 0.00%    |
| Overload                          | 0.27%     | 0.30%     | 0.00%    | 0.00%    |
| Public Accident                   | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Ice/Snow                          | 0.48%     | 0.15%     | 0.00%    | 0.00%    |
| Fire                              | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Sag/Clearance                     | 0.96%     | 4.39%     | 0.00%    | 0.00%    |
| Tree - ROW                        | 0.61%     | 0.85%     | 0.00%    | 0.00%    |
| Lightning                         | 2.91%     | 2.07%     | 13.50%   | 5.80%    |
| Tree - Non ROW                    | 20.34%    | 12.51%    | 15.75%   | 14.42%   |
| Large Animal                      | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Vandalism                         | 10.50%    | 12.95%    | 0.00%    | 0.00%    |
| Contractor                        | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Flash Flood                       | 0.00%     | 0.00%     | 0.00%    | 0.00%    |

**Corrections to be made:**

Power Supplier caused outages. No corrections necessary at this time.

|                              |                                         |     |
|------------------------------|-----------------------------------------|-----|
| Substation Name and Number   | NEWBY                                   | 7   |
| Substation Location          | 247 Maple Grove Rd., Richmond, KY 40475 |     |
| Circuit Name and Number      | NEWBY                                   | 104 |
| Circuit Location             | Hickory Hill                            |     |
| Total Circuit Length (Miles) | 14.4                                    |     |
| 2016 Member Count            | 253                                     |     |
| 5 Year Average Member Count  | 253                                     |     |
| Date of Last Trim            | January-12                              |     |
| Date of Next Trim            | 2017                                    |     |

| 5 Year Average |             | 2016        |             |
|----------------|-------------|-------------|-------------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI       |
| 171.6415477    | 1.032633909 | 327.4189723 | 1.565217391 |

| Total Minutes/Members Interrupted | 216812.25 | 1304.3909 | 82837.00 | 396.0000 |
|-----------------------------------|-----------|-----------|----------|----------|
| Equipment Fault                   | 6.99%     | 6.21%     | 0.00%    | 0.00%    |
| Wind                              | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Small Animal                      | 1.95%     | 5.60%     | 2.17%    | 6.82%    |
| Squirrel                          | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Unknown Cause                     | 0.09%     | 0.23%     | 0.00%    | 0.00%    |
| Deterioration                     | 0.03%     | 0.15%     | 0.00%    | 0.00%    |
| Scheduled                         | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Power Supplier                    | 4.36%     | 18.58%    | 0.00%    | 0.00%    |
| Bird                              | 0.31%     | 1.07%     | 0.00%    | 0.00%    |
| Overload                          | 0.04%     | 0.15%     | 0.00%    | 0.00%    |
| Public Accident                   | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Ice/Snow                          | 0.07%     | 0.08%     | 0.00%    | 0.00%    |
| Fire                              | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Sag/Clearance                     | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Tree - ROW                        | 35.69%    | 25.84%    | 93.42%   | 85.10%   |
| Lightning                         | 2.06%     | 2.84%     | 0.00%    | 0.00%    |
| Tree - Non ROW                    | 48.41%    | 39.25%    | 4.40%    | 8.08%    |
| Large Animal                      | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Vandalism                         | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Contractor                        | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Flash Flood                       | 0.00%     | 0.00%     | 0.00%    | 0.00%    |

**Corrections to be made:**

Circuit to be trimmed in 2017.

|                              |                                         |     |
|------------------------------|-----------------------------------------|-----|
| Substation Name and Number   | NEWBY                                   | 7   |
| Substation Location          | 247 Maple Grove Rd., Richmond, KY 40475 |     |
| Circuit Name and Number      | NEWBY                                   | 124 |
| Circuit Location             | Shallow Ford                            |     |
| Total Circuit Length (Miles) | 15.3                                    |     |
| 2016 Member Count            | 149                                     |     |
| 5 Year Average Member Count  | 149                                     |     |
| Date of Last Trim            | January-12                              |     |
| Date of Next Trim            | 2018                                    |     |

| 5 Year Average |             | 2016        |             |
|----------------|-------------|-------------|-------------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI       |
| 124.1534595    | 0.908678429 | 216.0201342 | 1.845637584 |

| Total Minutes/Members Interrupted | 92360.43 | 675.9855 | 32187.00 | 275.0000 |
|-----------------------------------|----------|----------|----------|----------|
| Equipment Fault                   | 1.33%    | 2.22%    | 0.00%    | 0.00%    |
| Wind                              | 0.08%    | 0.15%    | 0.00%    | 0.00%    |
| Small Animal                      | 1.80%    | 3.99%    | 2.90%    | 5.82%    |
| Squirrel                          | 0.34%    | 0.59%    | 0.00%    | 0.00%    |
| Unknown Cause                     | 0.23%    | 0.44%    | 0.00%    | 0.00%    |
| Deterioration                     | 0.39%    | 0.30%    | 1.13%    | 0.73%    |
| Scheduled                         | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Power Supplier                    | 5.91%    | 20.71%   | 0.00%    | 0.00%    |
| Bird                              | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Overload                          | 0.05%    | 0.15%    | 0.00%    | 0.00%    |
| Public Accident                   | 8.41%    | 15.98%   | 20.90%   | 34.55%   |
| Ice/Snow                          | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Fire                              | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Sag/Clearance                     | 0.13%    | 0.15%    | 0.00%    | 0.00%    |
| Tree - ROW                        | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Lightning                         | 5.42%    | 8.43%    | 2.14%    | 1.45%    |
| Tree - Non ROW                    | 75.81%   | 46.75%   | 72.71%   | 57.09%   |
| Large Animal                      | 0.07%    | 0.15%    | 0.21%    | 0.36%    |
| Vandalism                         | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Contractor                        | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Flash Flood                       | 0.00%    | 0.00%    | 0.00%    | 0.00%    |

**Corrections to be made:**

No corrections necessary at this time.

7-144

Substation Name and Number NEWBY 7  
 Substation Location 247 Maple Grove Rd., Richmond, KY 40475  
 Circuit Name and Number NEWBY 144  
 Circuit Location Bears Den/Mule Shed Rd  
 Total Circuit Length (Miles) 52.3  
 2016 Member Count 598  
 5 Year Average Member Count 597  
 Date of Last Trim July-13  
 Date of Next Trim 2019

| 5 Year Average |             | 2016        |             |
|----------------|-------------|-------------|-------------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI       |
| 127.6547226    | 1.209778806 | 170.5351171 | 0.720735786 |

| Total Minutes/Members Interrupted | 381135.09 | 3612.0023 | 101980.00 | 431.0000 |
|-----------------------------------|-----------|-----------|-----------|----------|
| Equipment Fault                   | 7.44%     | 11.71%    | 0.00%     | 0.00%    |
| Wind                              | 16.49%    | 15.53%    | 0.00%     | 0.00%    |
| Small Animal                      | 2.38%     | 4.84%     | 1.41%     | 4.41%    |
| Squirrel                          | 0.00%     | 0.00%     | 0.00%     | 0.00%    |
| Unknown Cause                     | 9.74%     | 9.14%     | 0.00%     | 0.00%    |
| Deterioration                     | 0.95%     | 0.91%     | 0.08%     | 0.23%    |
| Scheduled                         | 0.29%     | 0.11%     | 0.33%     | 0.46%    |
| Power Supplier                    | 5.72%     | 15.48%    | 0.00%     | 0.00%    |
| Bird                              | 1.21%     | 1.52%     | 0.00%     | 0.00%    |
| Overload                          | 0.94%     | 1.38%     | 0.00%     | 0.00%    |
| Public Accident                   | 1.54%     | 2.33%     | 0.80%     | 2.55%    |
| Ice/Snow                          | 0.39%     | 0.14%     | 0.00%     | 0.00%    |
| Fire                              | 0.00%     | 0.00%     | 0.00%     | 0.00%    |
| Sag/Clearance                     | 0.00%     | 0.00%     | 0.00%     | 0.00%    |
| Tree - ROW                        | 0.71%     | 0.78%     | 0.21%     | 0.93%    |
| Lightning                         | 4.76%     | 4.65%     | 2.91%     | 5.34%    |
| Tree - Non ROW                    | 22.91%    | 21.62%    | 2.57%     | 3.48%    |
| Large Animal                      | 0.00%     | 0.00%     | 0.00%     | 0.00%    |
| Vandalism                         | 0.00%     | 0.00%     | 0.00%     | 0.00%    |
| Contractor                        | 0.00%     | 0.00%     | 0.00%     | 0.00%    |
| Flash Flood                       | 24.54%    | 9.86%     | 91.70%    | 82.60%   |

**Corrections to be made:**

Flash Flood caused outages. No corrections necessary at this time.

|                              |                                     |       |
|------------------------------|-------------------------------------|-------|
| Substation Name and Number   | NICHOLASVILLE                       | 1     |
| Substation Location          | 1049 Bethany Rd., Nicholasville, KY | 40356 |
| Circuit Name and Number      | NICHOLASVILLE                       | 104   |
| Circuit Location             | Brittany Heights                    |       |
| Total Circuit Length (Miles) | 7.9                                 |       |
| 2016 Member Count            | 512                                 |       |
| 5 Year Average Member Count  | 510                                 |       |
| Date of Last Trim            | June-13                             |       |
| Date of Next Trim            | 2019                                |       |

| 5 Year Average |             | 2016        |          |
|----------------|-------------|-------------|----------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI    |
| 22.71967379    | 0.335548246 | 45.16210938 | 0.265625 |

| Total Minutes/Members Interrupted | 57959.00 | 856.0000 | 23123.00 | 136.0000 |
|-----------------------------------|----------|----------|----------|----------|
| Equipment Fault                   | 1.11%    | 0.93%    | 0.00%    | 0.00%    |
| Wind                              | 5.41%    | 5.72%    | 0.00%    | 0.00%    |
| Small Animal                      | 11.86%   | 10.40%   | 11.47%   | 25.00%   |
| Squirrel                          | 0.52%    | 0.70%    | 0.00%    | 0.00%    |
| Unknown Cause                     | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Deterioration                     | 2.74%    | 3.27%    | 2.55%    | 6.62%    |
| Scheduled                         | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Power Supplier                    | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Bird                              | 2.49%    | 2.34%    | 0.00%    | 0.00%    |
| Overload                          | 0.30%    | 0.35%    | 0.00%    | 0.00%    |
| Public Accident                   | 34.30%   | 10.86%   | 85.98%   | 68.38%   |
| Ice/Snow                          | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Fire                              | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Sag/Clearance                     | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Tree - ROW                        | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Lightning                         | 31.72%   | 59.70%   | 0.00%    | 0.00%    |
| Tree - Non ROW                    | 9.55%    | 5.72%    | 0.00%    | 0.00%    |
| Large Animal                      | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Vandalism                         | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Contractor                        | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Flash Flood                       | 0.00%    | 0.00%    | 0.00%    | 0.00%    |

**Corrections to be made:**

Public Accident caused outages. No corrections necessary at this time.



|                              |                                           |     |
|------------------------------|-------------------------------------------|-----|
| Substation Name and Number   | NICHOLASVILLE                             | 1   |
| Substation Location          | 1049 Bethany Rd., Nicholasville, KY 40356 |     |
| Circuit Name and Number      | NICHOLASVILLE                             | 114 |
| Circuit Location             | McClane/Groggin's Ferry                   |     |
| Total Circuit Length (Miles) | 18.7                                      |     |
| 2016 Member Count            | 231                                       |     |
| 5 Year Average Member Count  | 230                                       |     |
| Date of Last Trim            | March-13                                  |     |
| Date of Next Trim            | 2019                                      |     |

| 5 Year Average |             | 2016        |             |
|----------------|-------------|-------------|-------------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI       |
| 44.64441103    | 0.719398496 | 77.16450216 | 1.272727273 |

| Total Minutes/Members Interrupted | 51384.00 | 828.0000 | 17825.00 | 294.0000 |
|-----------------------------------|----------|----------|----------|----------|
| Equipment Fault                   | 13.42%   | 7.97%    | 23.20%   | 10.20%   |
| Wind                              | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Small Animal                      | 37.07%   | 63.16%   | 42.60%   | 77.55%   |
| Squirrel                          | 2.00%    | 1.81%    | 0.00%    | 0.00%    |
| Unknown Cause                     | 6.16%    | 4.95%    | 3.05%    | 2.72%    |
| Deterioration                     | 0.12%    | 0.12%    | 0.00%    | 0.00%    |
| Scheduled                         | 1.08%    | 1.57%    | 0.00%    | 0.00%    |
| Power Supplier                    | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Bird                              | 1.07%    | 1.45%    | 0.00%    | 0.00%    |
| Overload                          | 0.38%    | 0.48%    | 0.00%    | 0.00%    |
| Public Accident                   | 3.95%    | 1.45%    | 0.00%    | 0.00%    |
| Ice/Snow                          | 1.54%    | 0.97%    | 0.00%    | 0.00%    |
| Fire                              | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Sag/Clearance                     | 0.49%    | 0.60%    | 0.00%    | 0.00%    |
| Tree - ROW                        | 1.96%    | 2.05%    | 0.00%    | 0.00%    |
| Lightning                         | 5.17%    | 3.14%    | 0.00%    | 0.00%    |
| Tree - Non ROW                    | 24.80%   | 9.78%    | 28.86%   | 8.16%    |
| Large Animal                      | 0.79%    | 0.48%    | 2.29%    | 1.36%    |
| Vandalism                         | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Contractor                        | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Flash Flood                       | 0.00%    | 0.00%    | 0.00%    | 0.00%    |

**Corrections to be made:**

Equipment repaired at time of outage. No corrections necessary at this time.

Substation Name and Number NICHOLASVILLE 1  
 Substation Location 1049 Bethany Rd., Nicholasville, KY 40356  
 Circuit Name and Number NICHOLASVILLE 144  
 Circuit Location The Country  
 Total Circuit Length (Miles) 4.4  
 2016 Member Count 24  
 5 Year Average Member Count 24  
 Date of Last Trim November-14  
 Date of Next Trim 2020

| 5 Year Average |             | 2016        |             |
|----------------|-------------|-------------|-------------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI       |
| 39.31245614    | 0.602105263 | 29.54166667 | 1.041666667 |

| Total Minutes/Members Interrupted | 4701.00 | 72.0000 | 709.00  | 25.0000 |
|-----------------------------------|---------|---------|---------|---------|
| Equipment Fault                   | 2.66%   | 1.39%   | 0.00%   | 0.00%   |
| Wind                              | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Small Animal                      | 26.65%  | 50.00%  | 100.00% | 100.00% |
| Squirrel                          | 1.13%   | 1.39%   | 0.00%   | 0.00%   |
| Unknown Cause                     | 6.19%   | 5.56%   | 0.00%   | 0.00%   |
| Deterioration                     | 24.02%  | 9.72%   | 0.00%   | 0.00%   |
| Scheduled                         | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Power Supplier                    | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Bird                              | 11.10%  | 15.28%  | 0.00%   | 0.00%   |
| Overload                          | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Public Accident                   | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Ice/Snow                          | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Fire                              | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Sag/Clearance                     | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Tree - ROW                        | 2.51%   | 1.39%   | 0.00%   | 0.00%   |
| Lightning                         | 25.74%  | 15.28%  | 0.00%   | 0.00%   |
| Tree - Non ROW                    | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Large Animal                      | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Vandalism                         | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Contractor                        | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Flash Flood                       | 0.00%   | 0.00%   | 0.00%   | 0.00%   |

**Corrections to be made:**

No corrections necessary at this time.

|                              |                                          |     |
|------------------------------|------------------------------------------|-----|
| Substation Name and Number   | NINEVAH                                  | 22  |
| Substation Location          | 1746 Clifton Rd., Lawrenceburg, KY 40342 |     |
| Circuit Name and Number      | NINEVAH                                  | 134 |
| Circuit Location             | Lane's Mill/Dove Creek Estates           |     |
| Total Circuit Length (Miles) | 58.4                                     |     |
| 2016 Member Count            | 941                                      |     |
| 5 Year Average Member Count  | 941                                      |     |
| Date of Last Trim            | December-11                              |     |
| Date of Next Trim            | 2017                                     |     |

| 5 Year Average |             | 2016        |            |
|----------------|-------------|-------------|------------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI      |
| 212.4410631    | 1.819491495 | 344.7672689 | 2.70031881 |

| Total Minutes/Members Interrupted | 999204.89 | 8557.8784 | 324426.00 | 2541.0000 |
|-----------------------------------|-----------|-----------|-----------|-----------|
| Equipment Fault                   | 15.61%    | 25.44%    | 33.91%    | 37.54%    |
| Wind                              | 14.25%    | 8.44%     | 22.61%    | 22.63%    |
| Small Animal                      | 1.55%     | 3.08%     | 0.54%     | 1.61%     |
| Squirrel                          | 0.41%     | 0.86%     | 0.00%     | 0.00%     |
| Unknown Cause                     | 2.99%     | 4.02%     | 0.02%     | 0.08%     |
| Deterioration                     | 3.62%     | 3.17%     | 0.12%     | 0.12%     |
| Scheduled                         | 1.00%     | 2.91%     | 2.48%     | 4.25%     |
| Power Supplier                    | 34.96%    | 22.13%    | 0.00%     | 0.00%     |
| Bird                              | 0.66%     | 1.74%     | 1.69%     | 4.80%     |
| Overload                          | 0.00%     | 0.00%     | 0.00%     | 0.00%     |
| Public Accident                   | 4.38%     | 12.47%    | 0.81%     | 1.93%     |
| Ice/Snow                          | 0.00%     | 0.00%     | 0.00%     | 0.00%     |
| Fire                              | 0.01%     | 0.02%     | 0.00%     | 0.00%     |
| Sag/Clearance                     | 0.38%     | 0.48%     | 1.18%     | 1.61%     |
| Tree - ROW                        | 2.64%     | 1.81%     | 0.00%     | 0.00%     |
| Lightning                         | 2.61%     | 2.71%     | 1.01%     | 0.94%     |
| Tree - Non ROW                    | 14.93%    | 10.72%    | 35.63%    | 24.48%    |
| Large Animal                      | 0.00%     | 0.00%     | 0.00%     | 0.00%     |
| Vandalism                         | 0.00%     | 0.00%     | 0.00%     | 0.00%     |
| Contractor                        | 0.00%     | 0.00%     | 0.00%     | 0.00%     |
| Flash Flood                       | 0.00%     | 0.00%     | 0.00%     | 0.00%     |

**Corrections to be made:**

Equipment repaired at time of outage. Storm related outages. No corrections necessary at this time.

15-114

|                              |                                          |     |
|------------------------------|------------------------------------------|-----|
| Substation Name and Number   | NORTH MADISON                            | 15  |
| Substation Location          | 2064 Jacks Creek Pike, Richmond KY 40475 |     |
| Circuit Name and Number      | NORTH MADISON                            | 114 |
| Circuit Location             | Boones Trace                             |     |
| Total Circuit Length (Miles) | 33.5                                     |     |
| 2016 Member Count            | 456                                      |     |
| 5 Year Average Member Count  | 451                                      |     |
| Date of Last Trim            | November-16                              |     |
| Date of Next Trim            | 2022                                     |     |

|  |                       |                    |                    |                    |
|--|-----------------------|--------------------|--------------------|--------------------|
|  | <b>5 Year Average</b> |                    | <b>2016</b>        |                    |
|  | <b>SAIDI</b>          | <b>SAIFI</b>       | <b>SAIDI</b>       | <b>SAIFI</b>       |
|  | <b>81.60044302</b>    | <b>0.683728282</b> | <b>63.90350877</b> | <b>0.796052632</b> |

| <b>Total Minutes/Members Interrupted</b> | 184032.00 | 1542.0000 | 29140.00 | 363.0000 |
|------------------------------------------|-----------|-----------|----------|----------|
| Equipment Fault                          | 45.05%    | 26.39%    | 0.00%    | 0.00%    |
| Wind                                     | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Small Animal                             | 3.65%     | 4.60%     | 2.47%    | 2.75%    |
| Squirrel                                 | 0.41%     | 0.71%     | 0.00%    | 0.00%    |
| Unknown Cause                            | 1.47%     | 1.30%     | 0.00%    | 0.00%    |
| Deterioration                            | 0.81%     | 0.84%     | 0.00%    | 0.00%    |
| Scheduled                                | 0.66%     | 1.10%     | 0.02%    | 0.28%    |
| Power Supplier                           | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Bird                                     | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Overload                                 | 7.95%     | 7.26%     | 0.57%    | 0.28%    |
| Public Accident                          | 9.11%     | 16.34%    | 0.00%    | 0.00%    |
| Ice/Snow                                 | 0.72%     | 0.91%     | 0.00%    | 0.00%    |
| Fire                                     | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Sag/Clearance                            | 0.96%     | 0.78%     | 0.00%    | 0.00%    |
| Tree - ROW                               | 0.09%     | 0.13%     | 0.00%    | 0.00%    |
| Lightning                                | 2.49%     | 2.72%     | 2.33%    | 2.75%    |
| Tree - Non ROW                           | 26.64%    | 36.90%    | 94.61%   | 93.94%   |
| Large Animal                             | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Vandalism                                | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Contractor                               | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Flash Flood                              | 0.00%     | 0.00%     | 0.00%    | 0.00%    |

**Corrections to be made:**

No corrections necessary at this time.

15-124

Substation Name and Number NORTH MADISON 15  
 Substation Location 2064 Jacks Creek Pike, Richmond KY 40475  
 Circuit Name and Number NORTH MADISON 124  
 Circuit Location Indigo Run  
 Total Circuit Length (Miles) 11.8  
 2016 Member Count 261  
 5 Year Average Member Count 258  
 Date of Last Trim November-15  
 Date of Next Trim 2021

| 5 Year Average |             | 2016      |             |
|----------------|-------------|-----------|-------------|
| SAIDI          | SAIFI       | SAIDI     | SAIFI       |
| 3.069290373    | 0.033311329 | 4.0651341 | 0.038314176 |

| Total Minutes/Members Interrupted | 3962.00 | 43.0000 | 1061.00 | 10.0000 |
|-----------------------------------|---------|---------|---------|---------|
| Equipment Fault                   | 21.05%  | 11.63%  | 19.51%  | 10.00%  |
| Wind                              | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Small Animal                      | 18.35%  | 23.26%  | 13.20%  | 20.00%  |
| Squirrel                          | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Unknown Cause                     | 18.45%  | 20.93%  | 0.00%   | 0.00%   |
| Deterioration                     | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Scheduled                         | 7.45%   | 9.30%   | 0.00%   | 0.00%   |
| Power Supplier                    | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Bird                              | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Overload                          | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Public Accident                   | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Ice/Snow                          | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Fire                              | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Sag/Clearance                     | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Tree - ROW                        | 4.82%   | 2.33%   | 0.00%   | 0.00%   |
| Lightning                         | 29.88%  | 32.56%  | 67.30%  | 70.00%  |
| Tree - Non ROW                    | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Large Animal                      | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Vandalism                         | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Contractor                        | 0.00%   | 0.00%   | 0.00%   | 0.00%   |
| Flash Flood                       | 0.00%   | 0.00%   | 0.00%   | 0.00%   |

**Corrections to be made:**

Storm related outages. Equipment repaired at time of outage. No corrections necessary at this time.

28-114

Substation Name and Number POWELL TAYLOR 28  
 Substation Location 1024 Powell Taylor Rd., Lawrenceburg, KY 40342  
 Circuit Name and Number POWELL TAYLOR 114  
 Circuit Location Birdie Rd  
 Total Circuit Length (Miles) 56.2  
 2016 Member Count 369  
 5 Year Average Member Count 366  
 Date of Last Trim December-11  
 Date of Next Trim 2017

| 5 Year Average |           | 2016        |             |
|----------------|-----------|-------------|-------------|
| SAIDI          | SAIFI     | SAIDI       | SAIFI       |
| 143.509392     | 1.1982872 | 209.0704607 | 1.417344173 |

| Total Minutes/Members Interrupted | 262279.00 | 2190.0000 | 77147.00 | 523.0000 |
|-----------------------------------|-----------|-----------|----------|----------|
| Equipment Fault                   | 4.46%     | 3.88%     | 0.00%    | 0.00%    |
| Wind                              | 25.82%    | 15.71%    | 82.80%   | 56.41%   |
| Small Animal                      | 0.88%     | 2.05%     | 0.09%    | 0.38%    |
| Squirrel                          | 0.62%     | 1.32%     | 0.18%    | 0.38%    |
| Unknown Cause                     | 3.91%     | 7.40%     | 0.00%    | 0.00%    |
| Deterioration                     | 2.84%     | 3.97%     | 0.00%    | 0.00%    |
| Scheduled                         | 0.78%     | 3.06%     | 2.33%    | 12.43%   |
| Power Supplier                    | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Bird                              | 0.01%     | 0.05%     | 0.00%    | 0.00%    |
| Overload                          | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Public Accident                   | 2.82%     | 3.20%     | 0.06%    | 0.19%    |
| Ice/Snow                          | 1.92%     | 1.92%     | 0.00%    | 0.00%    |
| Fire                              | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Sag/Clearance                     | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Tree - ROW                        | 3.79%     | 5.80%     | 8.33%    | 16.83%   |
| Lightning                         | 6.88%     | 7.63%     | 3.68%    | 5.54%    |
| Tree - Non ROW                    | 45.25%    | 44.02%    | 2.53%    | 7.84%    |
| Large Animal                      | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Vandalism                         | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Contractor                        | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Flash Flood                       | 0.00%     | 0.00%     | 0.00%    | 0.00%    |

**Corrections to be made:**

Circuit to be trimmed in 2017.

Substation Name and Number POWELL TAYLOR 28  
 Substation Location 1024 Powell Taylor Rd., Lawrenceburg, KY 40342  
 Circuit Name and Number POWELL TAYLOR 124  
 Circuit Location Puckett Rd  
 Total Circuit Length (Miles) 33.5  
 2016 Member Count 339  
 5 Year Average Member Count 336  
 Date of Last Trim November-12  
 Date of Next Trim 2018

| 5 Year Average |             | 2016       |            |
|----------------|-------------|------------|------------|
| SAIDI          | SAIFI       | SAIDI      | SAIFI      |
| 77.93224737    | 0.698025173 | 120.920354 | 0.94100295 |

| Total Minutes/Members Interrupted | 130850.00 | 1172.0000 | 40992.00 | 319.0000 |
|-----------------------------------|-----------|-----------|----------|----------|
| Equipment Fault                   | 9.13%     | 10.07%    | 21.09%   | 28.53%   |
| Wind                              | 0.67%     | 0.77%     | 0.21%    | 0.31%    |
| Small Animal                      | 13.68%    | 14.33%    | 1.21%    | 1.57%    |
| Squirrel                          | 0.33%     | 0.68%     | 0.09%    | 0.31%    |
| Unknown Cause                     | 2.94%     | 5.38%     | 0.10%    | 0.31%    |
| Deterioration                     | 1.44%     | 2.30%     | 0.15%    | 0.31%    |
| Scheduled                         | 3.66%     | 4.35%     | 0.00%    | 0.00%    |
| Power Supplier                    | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Bird                              | 0.41%     | 0.77%     | 0.00%    | 0.00%    |
| Overload                          | 0.08%     | 0.17%     | 0.00%    | 0.00%    |
| Public Accident                   | 0.54%     | 1.02%     | 0.66%    | 1.57%    |
| Ice/Snow                          | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Fire                              | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Sag/Clearance                     | 0.53%     | 1.02%     | 0.00%    | 0.00%    |
| Tree - ROW                        | 3.23%     | 4.44%     | 0.12%    | 0.31%    |
| Lightning                         | 29.84%    | 37.63%    | 24.27%   | 21.00%   |
| Tree - Non ROW                    | 33.51%    | 17.06%    | 52.13%   | 45.77%   |
| Large Animal                      | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Vandalism                         | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Contractor                        | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Flash Flood                       | 0.00%     | 0.00%     | 0.00%    | 0.00%    |

**Corrections to be made:**

Storm related outages. Equipment repaired at time of outage. No corrections necessary at this time.

28-144

|                              |                                                |     |
|------------------------------|------------------------------------------------|-----|
| Substation Name and Number   | POWELL TAYLOR                                  | 28  |
| Substation Location          | 1024 Powell Taylor Rd., Lawrenceburg, KY 40342 |     |
| Circuit Name and Number      | POWELL TAYLOR                                  | 144 |
| Circuit Location             | Powell Taylor/Glenview                         |     |
| Total Circuit Length (Miles) | 9.4                                            |     |
| 2016 Member Count            | 185                                            |     |
| 5 Year Average Member Count  | 183                                            |     |
| Date of Last Trim            | January-12                                     |     |
| Date of Next Trim            | 2017                                           |     |

|  |                       |                    |                    |                    |
|--|-----------------------|--------------------|--------------------|--------------------|
|  | <b>5 Year Average</b> |                    | <b>2016</b>        |                    |
|  | <b>SAIDI</b>          | <b>SAIFI</b>       | <b>SAIDI</b>       | <b>SAIFI</b>       |
|  | <b>63.32120453</b>    | <b>0.678831252</b> | <b>137.3837838</b> | <b>1.194594595</b> |

| <b>Total Minutes/Members Interrupted</b> | <b>58020.00</b> | <b>622.0000</b> | <b>25416.00</b> | <b>221.0000</b> |
|------------------------------------------|-----------------|-----------------|-----------------|-----------------|
| Equipment Fault                          | 6.59%           | 4.98%           | 0.46%           | 0.45%           |
| Wind                                     | 8.63%           | 1.29%           | 0.00%           | 0.00%           |
| Small Animal                             | 3.13%           | 4.02%           | 3.29%           | 4.98%           |
| Squirrel                                 | 1.42%           | 2.73%           | 0.77%           | 1.81%           |
| Unknown Cause                            | 3.15%           | 4.82%           | 0.00%           | 0.00%           |
| Deterioration                            | 2.62%           | 3.70%           | 0.28%           | 0.45%           |
| Scheduled                                | 0.00%           | 0.00%           | 0.00%           | 0.00%           |
| Power Supplier                           | 0.00%           | 0.00%           | 0.00%           | 0.00%           |
| Bird                                     | 0.78%           | 1.61%           | 0.00%           | 0.00%           |
| Overload                                 | 0.00%           | 0.00%           | 0.00%           | 0.00%           |
| Public Accident                          | 13.06%          | 31.83%          | 3.61%           | 8.14%           |
| Ice/Snow                                 | 0.00%           | 0.00%           | 0.00%           | 0.00%           |
| Fire                                     | 0.00%           | 0.00%           | 0.00%           | 0.00%           |
| Sag/Clearance                            | 0.00%           | 0.00%           | 0.00%           | 0.00%           |
| Tree - ROW                               | 12.22%          | 8.20%           | 0.00%           | 0.00%           |
| Lightning                                | 5.48%           | 6.75%           | 1.30%           | 0.90%           |
| Tree - Non ROW                           | 42.93%          | 30.06%          | 90.29%          | 83.26%          |
| Large Animal                             | 0.00%           | 0.00%           | 0.00%           | 0.00%           |
| Vandalism                                | 0.00%           | 0.00%           | 0.00%           | 0.00%           |
| Contractor                               | 0.00%           | 0.00%           | 0.00%           | 0.00%           |
| Flash Flood                              | 0.00%           | 0.00%           | 0.00%           | 0.00%           |

**Corrections to be made:**

No corrections necessary at this time.



|                              |                          |       |
|------------------------------|--------------------------|-------|
| Substation Name and Number   | SINAI                    | 23    |
| Substation Location          | Hwy 62, Lawrenceburg, KY | 40342 |
| Circuit Name and Number      | SINAI                    | 114   |
| Circuit Location             | Beaver Lake/ HWY 53      |       |
| Total Circuit Length (Miles) | 98.3                     |       |
| 2016 Member Count            | 776                      |       |
| 5 Year Average Member Count  | 775                      |       |
| Date of Last Trim            | December-11              |       |
| Date of Next Trim            | 2017                     |       |

| 5 Year Average |             | 2016        |             |
|----------------|-------------|-------------|-------------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI       |
| 143.7492871    | 1.948935677 | 103.4175258 | 2.488402062 |

| Total Minutes/Members Interrupted | 556966.08 | 7551.2796 | 80252.00 | 1931.0000 |
|-----------------------------------|-----------|-----------|----------|-----------|
| Equipment Fault                   | 5.37%     | 3.22%     | 2.51%    | 1.04%     |
| Wind                              | 3.72%     | 2.89%     | 0.00%    | 0.00%     |
| Small Animal                      | 2.14%     | 2.69%     | 0.62%    | 0.47%     |
| Squirrel                          | 1.27%     | 1.48%     | 0.26%    | 0.36%     |
| Unknown Cause                     | 1.54%     | 1.81%     | 0.11%    | 0.05%     |
| Deterioration                     | 1.82%     | 1.26%     | 0.70%    | 0.57%     |
| Scheduled                         | 3.06%     | 11.94%    | 0.00%    | 0.00%     |
| Power Supplier                    | 57.04%    | 61.29%    | 50.22%   | 80.27%    |
| Bird                              | 1.16%     | 0.94%     | 0.00%    | 0.00%     |
| Overload                          | 0.11%     | 0.09%     | 0.00%    | 0.00%     |
| Public Accident                   | 5.45%     | 2.44%     | 19.13%   | 4.87%     |
| Ice/Snow                          | 0.49%     | 0.30%     | 0.07%    | 0.05%     |
| Fire                              | 0.00%     | 0.00%     | 0.00%    | 0.00%     |
| Sag/Clearance                     | 0.00%     | 0.00%     | 0.00%    | 0.00%     |
| Tree - ROW                        | 2.89%     | 2.15%     | 8.90%    | 3.52%     |
| Lightning                         | 4.78%     | 2.56%     | 6.86%    | 2.90%     |
| Tree - Non ROW                    | 9.14%     | 4.94%     | 10.63%   | 5.90%     |
| Large Animal                      | 0.00%     | 0.00%     | 0.00%    | 0.00%     |
| Vandalism                         | 0.00%     | 0.00%     | 0.00%    | 0.00%     |
| Contractor                        | 0.00%     | 0.00%     | 0.00%    | 0.00%     |
| Flash Flood                       | 0.00%     | 0.00%     | 0.00%    | 0.00%     |

**Corrections to be made:**

Circuit to be trimmed in 2017. Power Supplier caused outages. Public Accident caused outages. No corrections necessary at this time.

|                              |                          |       |
|------------------------------|--------------------------|-------|
| Substation Name and Number   | SINAI                    | 23    |
| Substation Location          | Hwy 62, Lawrenceburg, KY | 40342 |
| Circuit Name and Number      | SINAI                    | 144   |
| Circuit Location             | Glennsboro               |       |
| Total Circuit Length (Miles) | 53.5                     |       |
| 2016 Member Count            | 359                      |       |
| 5 Year Average Member Count  | 358                      |       |
| Date of Last Trim            | March-13                 |       |
| Date of Next Trim            | 2018                     |       |

| 5 Year Average |             | 2016        |             |
|----------------|-------------|-------------|-------------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI       |
| 207.7674642    | 2.296942891 | 131.4011142 | 2.752089136 |

| Total Minutes/Members Interrupted | 372420.27 | 4117.2380 | 47173.00 | 988.0000 |
|-----------------------------------|-----------|-----------|----------|----------|
| Equipment Fault                   | 3.19%     | 1.65%     | 23.66%   | 6.28%    |
| Wind                              | 14.37%    | 5.44%     | 5.32%    | 4.66%    |
| Small Animal                      | 0.61%     | 0.90%     | 2.94%    | 2.13%    |
| Squirrel                          | 0.40%     | 0.63%     | 0.30%    | 0.20%    |
| Unknown Cause                     | 12.12%    | 13.42%    | 11.32%   | 6.68%    |
| Deterioration                     | 0.36%     | 0.49%     | 0.51%    | 0.40%    |
| Scheduled                         | 0.07%     | 0.95%     | 0.00%    | 0.00%    |
| Power Supplier                    | 31.50%    | 43.47%    | 39.57%   | 72.67%   |
| Bird                              | 0.87%     | 0.41%     | 0.00%    | 0.00%    |
| Overload                          | 0.01%     | 0.02%     | 0.00%    | 0.00%    |
| Public Accident                   | 3.19%     | 3.93%     | 14.06%   | 6.28%    |
| Ice/Snow                          | 0.46%     | 0.17%     | 0.00%    | 0.00%    |
| Fire                              | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Sag/Clearance                     | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Tree - ROW                        | 12.26%    | 10.40%    | 0.85%    | 0.30%    |
| Lightning                         | 6.23%     | 6.05%     | 1.46%    | 0.40%    |
| Tree - Non ROW                    | 14.34%    | 12.07%    | 0.00%    | 0.00%    |
| Large Animal                      | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Vandalism                         | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Contractor                        | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Flash Flood                       | 0.00%     | 0.00%     | 0.00%    | 0.00%    |

**Corrections to be made:**

Power Supplier caused outages. Equipment repaired at time of outage. No corrections necessary at this time.

12-104

|                              |                                         |     |
|------------------------------|-----------------------------------------|-----|
| Substation Name and Number   | SOUTH ELKHORN                           | 12  |
| Substation Location          | 3251 Keene Rd., Nicholasville, KY 40356 |     |
| Circuit Name and Number      | SOUTH ELKHORN                           | 104 |
| Circuit Location             | Firebrook/Dogwood Trace                 |     |
| Total Circuit Length (Miles) | 5.0                                     |     |
| 2016 Member Count            | 1079                                    |     |
| 5 Year Average Member Count  | 1076                                    |     |
| Date of Last Trim            | January-15                              |     |
| Date of Next Trim            | 2019                                    |     |

| 5 Year Average |            | 2016        |             |
|----------------|------------|-------------|-------------|
| SAIDI          | SAIFI      | SAIDI       | SAIFI       |
| 22.18872526    | 0.36967579 | 57.24189064 | 0.427247451 |

| Total Minutes/Members Interrupted | 119384.00 | 1989.0000 | 61764.00 | 461.0000 |
|-----------------------------------|-----------|-----------|----------|----------|
| Equipment Fault                   | 26.73%    | 57.77%    | 0.00%    | 0.00%    |
| Wind                              | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Small Animal                      | 1.62%     | 2.11%     | 1.81%    | 3.90%    |
| Squirrel                          | 0.08%     | 0.10%     | 0.00%    | 0.00%    |
| Unknown Cause                     | 0.33%     | 0.25%     | 0.00%    | 0.00%    |
| Deterioration                     | 1.73%     | 1.56%     | 0.00%    | 0.00%    |
| Scheduled                         | 0.46%     | 0.75%     | 0.00%    | 0.00%    |
| Power Supplier                    | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Bird                              | 3.55%     | 3.92%     | 0.00%    | 0.00%    |
| Overload                          | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Public Accident                   | 50.80%    | 22.27%    | 98.19%   | 96.10%   |
| Ice/Snow                          | 1.13%     | 0.96%     | 0.00%    | 0.00%    |
| Fire                              | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Sag/Clearance                     | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Tree - ROW                        | 2.03%     | 2.06%     | 0.00%    | 0.00%    |
| Lightning                         | 11.54%    | 8.25%     | 0.00%    | 0.00%    |
| Tree - Non ROW                    | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Large Animal                      | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Vandalism                         | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Contractor                        | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Flash Flood                       | 0.00%     | 0.00%     | 0.00%    | 0.00%    |

**Corrections to be made:**

Public Accident caused outages. No corrections necessary at this time.

14-114

Substation Name and Number SOUTH JESSAMINE 14  
 Substation Location 1307 Chrisman Mill Rd., Nicholasville, KY 40356  
 Circuit Name and Number SOUTH JESSAMINE 114  
 Circuit Location Locust Heights/Southbrook  
 Total Circuit Length (Miles) 23.0  
 2016 Member Count 857  
 5 Year Average Member Count 842  
 Date of Last Trim August-16  
 Date of Next Trim 2022

| 5 Year Average |             | 2016       |             |
|----------------|-------------|------------|-------------|
| SAIDI          | SAIFI       | SAIDI      | SAIFI       |
| 46.89860588    | 0.576204782 | 74.6336056 | 1.108518086 |

| Total Minutes/Members Interrupted | 197539.00 | 2427.0000 | 63961.00 | 950.0000 |
|-----------------------------------|-----------|-----------|----------|----------|
| Equipment Fault                   | 3.90%     | 5.23%     | 0.00%    | 0.00%    |
| Wind                              | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Small Animal                      | 4.05%     | 7.75%     | 5.77%    | 9.79%    |
| Squirrel                          | 0.81%     | 0.95%     | 0.00%    | 0.00%    |
| Unknown Cause                     | 2.66%     | 5.15%     | 0.00%    | 0.00%    |
| Deterioration                     | 0.93%     | 0.87%     | 0.00%    | 0.00%    |
| Scheduled                         | 0.17%     | 0.45%     | 0.00%    | 0.00%    |
| Power Supplier                    | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Bird                              | 2.21%     | 3.96%     | 0.00%    | 0.00%    |
| Overload                          | 0.10%     | 0.04%     | 0.30%    | 0.11%    |
| Public Accident                   | 34.05%    | 41.94%    | 91.01%   | 87.26%   |
| Ice/Snow                          | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Fire                              | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Sag/Clearance                     | 47.90%    | 30.70%    | 0.00%    | 0.00%    |
| Tree - ROW                        | 0.59%     | 0.70%     | 1.81%    | 1.79%    |
| Lightning                         | 2.65%     | 2.27%     | 1.11%    | 1.05%    |
| Tree - Non ROW                    | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Large Animal                      | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Vandalism                         | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Contractor                        | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Flash Flood                       | 0.00%     | 0.00%     | 0.00%    | 0.00%    |

**Corrections to be made:**

Public Accident caused outages. No corrections necessary at this time.

Substation Name and Number SOUTH JESSAMINE 14  
 Substation Location 1307 Chrisman Mill Rd., Nicholasville, KY 40356  
 Circuit Name and Number SOUTH JESSAMINE 124  
 Circuit Location Sulpher Well  
 Total Circuit Length (Miles) 52.9  
 2016 Member Count 529  
 5 Year Average Member Count 520  
 Date of Last Trim August-11  
 Date of Next Trim 2017

| 5 Year Average |             | 2016       |            |
|----------------|-------------|------------|------------|
| SAIDI          | SAIFI       | SAIDI      | SAIFI      |
| 69.82705099    | 0.646546768 | 98.8979206 | 0.63705104 |

| Total Minutes/Members Interrupted | 181548.00 | 1681.0000 | 52317.00 | 337.0000 |
|-----------------------------------|-----------|-----------|----------|----------|
| Equipment Fault                   | 24.82%    | 16.00%    | 79.43%   | 73.00%   |
| Wind                              | 0.07%     | 0.06%     | 0.23%    | 0.30%    |
| Small Animal                      | 3.85%     | 7.79%     | 3.33%    | 7.72%    |
| Squirrel                          | 0.54%     | 0.95%     | 0.00%    | 0.00%    |
| Unknown Cause                     | 3.11%     | 4.88%     | 0.00%    | 0.00%    |
| Deterioration                     | 4.55%     | 3.99%     | 9.19%    | 9.50%    |
| Scheduled                         | 1.04%     | 0.89%     | 2.90%    | 2.08%    |
| Power Supplier                    | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Bird                              | 1.63%     | 4.64%     | 0.00%    | 0.00%    |
| Overload                          | 0.16%     | 0.30%     | 0.00%    | 0.00%    |
| Public Accident                   | 25.61%    | 26.35%    | 0.39%    | 0.30%    |
| Ice/Snow                          | 0.96%     | 0.59%     | 0.00%    | 0.00%    |
| Fire                              | 17.36%    | 12.43%    | 0.00%    | 0.00%    |
| Sag/Clearance                     | 0.49%     | 1.61%     | 0.00%    | 0.00%    |
| Tree - ROW                        | 0.50%     | 0.71%     | 0.22%    | 0.30%    |
| Lightning                         | 9.70%     | 13.56%    | 4.10%    | 6.23%    |
| Tree - Non ROW                    | 5.57%     | 5.18%     | 0.21%    | 0.59%    |
| Large Animal                      | 0.04%     | 0.06%     | 0.00%    | 0.00%    |
| Vandalism                         | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Contractor                        | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Flash Flood                       | 0.00%     | 0.00%     | 0.00%    | 0.00%    |

**Corrections to be made:**

Equipment repaired at time of outage. No corrections necessary at this time.

14-144

Substation Name and Number SOUTH JESSAMINE 14  
 Substation Location 1307 Chrisman Mill Rd., Nicholasville, KY 40356  
 Circuit Name and Number SOUTH JESSAMINE 144  
 Circuit Location Industrial Park  
 Total Circuit Length (Miles) 4.4  
 2016 Member Count 28  
 5 Year Average Member Count 28  
 Date of Last Trim December-16  
 Date of Next Trim 2022

| 5 Year Average |             | 2016        |             |
|----------------|-------------|-------------|-------------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI       |
| 3.953017822    | 0.058132615 | 15.35714286 | 0.178571429 |

| Total Minutes/Members Interrupted | 544.00 | 8.0000 | 430.00 | 5.0000 |
|-----------------------------------|--------|--------|--------|--------|
| Equipment Fault                   | 0.00%  | 0.00%  | 0.00%  | 0.00%  |
| Wind                              | 0.00%  | 0.00%  | 0.00%  | 0.00%  |
| Small Animal                      | 0.00%  | 0.00%  | 0.00%  | 0.00%  |
| Squirrel                          | 6.43%  | 12.50% | 0.00%  | 0.00%  |
| Unknown Cause                     | 0.00%  | 0.00%  | 0.00%  | 0.00%  |
| Deterioration                     | 0.00%  | 0.00%  | 0.00%  | 0.00%  |
| Scheduled                         | 2.39%  | 12.50% | 0.00%  | 0.00%  |
| Power Supplier                    | 0.00%  | 0.00%  | 0.00%  | 0.00%  |
| Bird                              | 0.00%  | 0.00%  | 0.00%  | 0.00%  |
| Overload                          | 0.00%  | 0.00%  | 0.00%  | 0.00%  |
| Public Accident                   | 70.04% | 50.00% | 88.60% | 80.00% |
| Ice/Snow                          | 0.00%  | 0.00%  | 0.00%  | 0.00%  |
| Fire                              | 0.00%  | 0.00%  | 0.00%  | 0.00%  |
| Sag/Clearance                     | 0.00%  | 0.00%  | 0.00%  | 0.00%  |
| Tree - ROW                        | 9.01%  | 12.50% | 11.40% | 20.00% |
| Lightning                         | 12.13% | 12.50% | 0.00%  | 0.00%  |
| Tree - Non ROW                    | 0.00%  | 0.00%  | 0.00%  | 0.00%  |
| Large Animal                      | 0.00%  | 0.00%  | 0.00%  | 0.00%  |
| Vandalism                         | 0.00%  | 0.00%  | 0.00%  | 0.00%  |
| Contractor                        | 0.00%  | 0.00%  | 0.00%  | 0.00%  |
| Flash Flood                       | 0.00%  | 0.00%  | 0.00%  | 0.00%  |

**Corrections to be made:**

Public Accident caused outages. No corrections necessary at this time.

17-114

Substation Name and Number SOUTH POINT 17  
 Substation Location Laudale Drive, Nicholasville, KY 40356  
 Circuit Name and Number SOUTH POINT 114  
 Circuit Location Southpoint Drive  
 Total Circuit Length (Miles) 3.4  
 2016 Member Count 406  
 5 Year Average Member Count 396  
 Date of Last Trim February-15  
 Date of Next Trim 2021

| 5 Year Average |             | 2016      |             |
|----------------|-------------|-----------|-------------|
| SAIDI          | SAIFI       | SAIDI     | SAIFI       |
| 0.76089048     | 0.008073109 | 0.9408867 | 0.014778325 |

| <b>Total Minutes/Members Interrupted</b> | 1508.00 | 16.0000 | 382.00 | 6.0000 |
|------------------------------------------|---------|---------|--------|--------|
| Equipment Fault                          | 0.00%   | 0.00%   | 0.00%  | 0.00%  |
| Wind                                     | 0.00%   | 0.00%   | 0.00%  | 0.00%  |
| Small Animal                             | 20.82%  | 37.50%  | 59.69% | 66.67% |
| Squirrel                                 | 0.00%   | 0.00%   | 0.00%  | 0.00%  |
| Unknown Cause                            | 0.00%   | 0.00%   | 0.00%  | 0.00%  |
| Deterioration                            | 0.00%   | 0.00%   | 0.00%  | 0.00%  |
| Scheduled                                | 3.32%   | 12.50%  | 0.00%  | 0.00%  |
| Power Supplier                           | 0.00%   | 0.00%   | 0.00%  | 0.00%  |
| Bird                                     | 0.00%   | 0.00%   | 0.00%  | 0.00%  |
| Overload                                 | 0.00%   | 0.00%   | 0.00%  | 0.00%  |
| Public Accident                          | 4.05%   | 6.25%   | 0.00%  | 0.00%  |
| Ice/Snow                                 | 0.00%   | 0.00%   | 0.00%  | 0.00%  |
| Fire                                     | 0.00%   | 0.00%   | 0.00%  | 0.00%  |
| Sag/Clearance                            | 0.00%   | 0.00%   | 0.00%  | 0.00%  |
| Tree - ROW                               | 17.90%  | 25.00%  | 40.31% | 33.33% |
| Lightning                                | 53.91%  | 18.75%  | 0.00%  | 0.00%  |
| Tree - Non ROW                           | 0.00%   | 0.00%   | 0.00%  | 0.00%  |
| Large Animal                             | 0.00%   | 0.00%   | 0.00%  | 0.00%  |
| Vandalism                                | 0.00%   | 0.00%   | 0.00%  | 0.00%  |
| Contractor                               | 0.00%   | 0.00%   | 0.00%  | 0.00%  |
| Flash Flood                              | 0.00%   | 0.00%   | 0.00%  | 0.00%  |

**Corrections to be made:**

No corrections necessary at this time.

|                              |                                          |     |
|------------------------------|------------------------------------------|-----|
| Substation Name and Number   | VAN_ARSDALL                              | 24  |
| Substation Location          | 104 Bardstown Rd., Harrodsburg, KY 40330 |     |
| Circuit Name and Number      | VAN_ARSDALL                              | 144 |
| Circuit Location             | Kirkwood                                 |     |
| Total Circuit Length (Miles) | 87.9                                     |     |
| 2016 Member Count            | 613                                      |     |
| 5 Year Average Member Count  | 611                                      |     |
| Date of Last Trim            | March-15                                 |     |
| Date of Next Trim            | 2021                                     |     |

| 5 Year Average |             | 2016        |             |
|----------------|-------------|-------------|-------------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI       |
| 85.43670368    | 0.558559534 | 128.8450245 | 0.696574225 |

| Total Minutes/Members Interrupted | 260837.48 | 1705.2772 | 78982.00 | 427.0000 |
|-----------------------------------|-----------|-----------|----------|----------|
| Equipment Fault                   | 32.11%    | 26.27%    | 0.16%    | 0.23%    |
| Wind                              | 0.76%     | 1.06%     | 2.51%    | 4.22%    |
| Small Animal                      | 0.97%     | 2.81%     | 0.21%    | 0.70%    |
| Squirrel                          | 0.05%     | 0.18%     | 0.06%    | 0.23%    |
| Unknown Cause                     | 2.47%     | 4.22%     | 2.56%    | 4.45%    |
| Deterioration                     | 0.39%     | 1.23%     | 0.56%    | 1.64%    |
| Scheduled                         | 0.05%     | 0.06%     | 0.16%    | 0.23%    |
| Power Supplier                    | 27.79%    | 35.14%    | 0.00%    | 0.00%    |
| Bird                              | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Overload                          | 0.01%     | 0.06%     | 0.00%    | 0.00%    |
| Public Accident                   | 0.29%     | 0.41%     | 0.00%    | 0.00%    |
| Ice/Snow                          | 0.17%     | 0.12%     | 0.00%    | 0.00%    |
| Fire                              | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Sag/Clearance                     | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Tree - ROW                        | 1.48%     | 3.28%     | 0.00%    | 0.00%    |
| Lightning                         | 19.62%    | 12.61%    | 61.89%   | 45.67%   |
| Tree - Non ROW                    | 13.83%    | 12.49%    | 31.84%   | 42.39%   |
| Large Animal                      | 0.02%     | 0.06%     | 0.05%    | 0.23%    |
| Vandalism                         | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Contractor                        | 0.00%     | 0.00%     | 0.00%    | 0.00%    |
| Flash Flood                       | 0.00%     | 0.00%     | 0.00%    | 0.00%    |

**Corrections to be made:**

Storm related outages. No corrections necessary at this time.



|                              |                                        |     |
|------------------------------|----------------------------------------|-----|
| Substation Name and Number   | WEST BERA                              | 8   |
| Substation Location          | 5350 Walnutmeadow Rd., Berea, KY 40403 |     |
| Circuit Name and Number      | WEST BERA                              | 134 |
| Circuit Location             | Wallacton                              |     |
| Total Circuit Length (Miles) | 36.7                                   |     |
| 2016 Member Count            | 463                                    |     |
| 5 Year Average Member Count  | 458                                    |     |
| Date of Last Trim            | December-15                            |     |
| Date of Next Trim            | 2021                                   |     |

| 5 Year Average |             | 2016        |             |
|----------------|-------------|-------------|-------------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI       |
| 144.4241151    | 1.339755101 | 283.6846652 | 2.900647948 |

| Total Minutes/Members Interrupted | 330727.00 | 3068.0000 | 131346.00 | 1343.0000 |
|-----------------------------------|-----------|-----------|-----------|-----------|
| Equipment Fault                   | 17.45%    | 16.95%    | 37.33%    | 33.80%    |
| Wind                              | 1.00%     | 1.83%     | 2.05%     | 3.65%     |
| Small Animal                      | 8.63%     | 16.75%    | 19.65%    | 35.00%    |
| Squirrel                          | 0.09%     | 0.33%     | 0.10%     | 0.37%     |
| Unknown Cause                     | 21.02%    | 18.29%    | 0.11%     | 0.15%     |
| Deterioration                     | 0.63%     | 1.27%     | 0.00%     | 0.00%     |
| Scheduled                         | 0.33%     | 0.26%     | 0.00%     | 0.00%     |
| Power Supplier                    | 10.11%    | 14.54%    | 0.00%     | 0.00%     |
| Bird                              | 0.14%     | 0.26%     | 0.00%     | 0.00%     |
| Overload                          | 0.03%     | 0.07%     | 0.08%     | 0.15%     |
| Public Accident                   | 18.52%    | 16.04%    | 38.21%    | 25.61%    |
| Ice/Snow                          | 3.30%     | 1.30%     | 0.00%     | 0.00%     |
| Fire                              | 0.00%     | 0.00%     | 0.00%     | 0.00%     |
| Sag/Clearance                     | 0.00%     | 0.00%     | 0.00%     | 0.00%     |
| Tree - ROW                        | 5.52%     | 3.39%     | 1.86%     | 0.89%     |
| Lightning                         | 1.96%     | 2.41%     | 0.00%     | 0.00%     |
| Tree - Non ROW                    | 11.25%    | 6.32%     | 0.62%     | 0.37%     |
| Large Animal                      | 0.00%     | 0.00%     | 0.00%     | 0.00%     |
| Vandalism                         | 0.00%     | 0.00%     | 0.00%     | 0.00%     |
| Contractor                        | 0.00%     | 0.00%     | 0.00%     | 0.00%     |
| Flash Flood                       | 0.00%     | 0.00%     | 0.00%     | 0.00%     |

**Corrections to be made:**

Public Accident caused outages. Equipment repaired at time of outage. No corrections necessary at this time.

|                              |                                        |     |
|------------------------------|----------------------------------------|-----|
| Substation Name and Number   | WEST BEREA                             | 8   |
| Substation Location          | 5350 Walnutmeadow Rd., Berea, KY 40403 |     |
| Circuit Name and Number      | WEST BEREA                             | 154 |
| Circuit Location             | Dogwood                                |     |
| Total Circuit Length (Miles) | 39.7                                   |     |
| 2016 Member Count            | 1200                                   |     |
| 5 Year Average Member Count  | 1187                                   |     |
| Date of Last Trim            | November-15                            |     |
| Date of Next Trim            | 2021                                   |     |

| 5 Year Average |             | 2016        |             |
|----------------|-------------|-------------|-------------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI       |
| 103.634135     | 1.068047483 | 142.6141667 | 0.488333333 |

| Total Minutes/Members Interrupted | 615082.00 | 6339.0000 | 171137.00 | 586.0000 |
|-----------------------------------|-----------|-----------|-----------|----------|
| Equipment Fault                   | 0.93%     | 1.34%     | 0.11%     | 0.51%    |
| Wind                              | 5.92%     | 8.49%     | 1.19%     | 5.80%    |
| Small Animal                      | 3.95%     | 6.61%     | 1.22%     | 8.19%    |
| Squirrel                          | 0.24%     | 0.55%     | 0.00%     | 0.00%    |
| Unknown Cause                     | 2.88%     | 3.09%     | 0.02%     | 0.34%    |
| Deterioration                     | 0.15%     | 0.08%     | 0.00%     | 0.00%    |
| Scheduled                         | 0.46%     | 0.30%     | 0.00%     | 0.00%    |
| Power Supplier                    | 13.63%    | 17.40%    | 0.00%     | 0.00%    |
| Bird                              | 0.14%     | 0.36%     | 0.00%     | 0.00%    |
| Overload                          | 0.08%     | 0.08%     | 0.11%     | 0.17%    |
| Public Accident                   | 27.65%    | 36.09%    | 0.49%     | 1.37%    |
| Ice/Snow                          | 0.00%     | 0.00%     | 0.00%     | 0.00%    |
| Fire                              | 0.00%     | 0.00%     | 0.00%     | 0.00%    |
| Sag/Clearance                     | 0.17%     | 0.30%     | 0.00%     | 0.00%    |
| Tree - ROW                        | 5.21%     | 5.52%     | 0.04%     | 0.17%    |
| Lightning                         | 9.63%     | 10.10%    | 0.10%     | 0.17%    |
| Tree - Non ROW                    | 28.98%    | 9.69%     | 96.71%    | 83.28%   |
| Large Animal                      | 0.00%     | 0.00%     | 0.00%     | 0.00%    |
| Vandalism                         | 0.00%     | 0.00%     | 0.00%     | 0.00%    |
| Contractor                        | 0.00%     | 0.00%     | 0.00%     | 0.00%    |
| Flash Flood                       | 0.00%     | 0.00%     | 0.00%     | 0.00%    |

**Corrections to be made:**

No corrections necessary at this time.

|                              |                                                 |     |
|------------------------------|-------------------------------------------------|-----|
| Substation Name and Number   | WEST NICHOLASVILLE                              | 3   |
| Substation Location          | 398 Bass Pond Glen Dr., Nicholasville, KY 40356 |     |
| Circuit Name and Number      | WEST NICHOLASVILLE                              | 154 |
| Circuit Location             | North Main St                                   |     |
| Total Circuit Length (Miles) | 8.1                                             |     |
| 2016 Member Count            | 686                                             |     |
| 5 Year Average Member Count  | 685                                             |     |
| Date of Last Trim            | November-16                                     |     |
| Date of Next Trim            | 2022                                            |     |

| 5 Year Average |             | 2016        |             |
|----------------|-------------|-------------|-------------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI       |
| 7.195512666    | 0.185398683 | 12.13119534 | 0.198250729 |

| Total Minutes/Members Interrupted | 24645.00 | 635.0000 | 8322.00 | 136.0000 |
|-----------------------------------|----------|----------|---------|----------|
| Equipment Fault                   | 8.15%    | 4.57%    | 20.32%  | 16.91%   |
| Wind                              | 0.00%    | 0.00%    | 0.00%   | 0.00%    |
| Small Animal                      | 2.07%    | 3.46%    | 0.00%   | 0.00%    |
| Squirrel                          | 2.04%    | 2.68%    | 0.00%   | 0.00%    |
| Unknown Cause                     | 6.48%    | 8.98%    | 0.00%   | 0.00%    |
| Deterioration                     | 0.00%    | 0.00%    | 0.00%   | 0.00%    |
| Scheduled                         | 0.00%    | 0.00%    | 0.00%   | 0.00%    |
| Power Supplier                    | 0.00%    | 0.00%    | 0.00%   | 0.00%    |
| Bird                              | 0.00%    | 0.00%    | 0.00%   | 0.00%    |
| Overload                          | 0.00%    | 0.00%    | 0.00%   | 0.00%    |
| Public Accident                   | 32.01%   | 49.76%   | 2.97%   | 0.74%    |
| Ice/Snow                          | 0.00%    | 0.00%    | 0.00%   | 0.00%    |
| Fire                              | 0.00%    | 0.00%    | 0.00%   | 0.00%    |
| Sag/Clearance                     | 0.00%    | 0.00%    | 0.00%   | 0.00%    |
| Tree - ROW                        | 25.90%   | 17.64%   | 76.71%  | 82.35%   |
| Lightning                         | 23.35%   | 12.91%   | 0.00%   | 0.00%    |
| Tree - Non ROW                    | 0.00%    | 0.00%    | 0.00%   | 0.00%    |
| Large Animal                      | 0.00%    | 0.00%    | 0.00%   | 0.00%    |
| Vandalism                         | 0.00%    | 0.00%    | 0.00%   | 0.00%    |
| Contractor                        | 0.00%    | 0.00%    | 0.00%   | 0.00%    |
| Flash Flood                       | 0.00%    | 0.00%    | 0.00%   | 0.00%    |

**Corrections to be made:**

Circuit trimmed at end of 2016. Equipment repaired at time of outage. No corrections necessary at this time.

|                              |                                                 |     |
|------------------------------|-------------------------------------------------|-----|
| Substation Name and Number   | WEST NICHOLASVILLE                              | 3   |
| Substation Location          | 398 Bass Pond Glen Dr., Nicholasville, KY 40356 |     |
| Circuit Name and Number      | WEST NICHOLASVILLE                              | 164 |
| Circuit Location             | Squire Lake                                     |     |
| Total Circuit Length (Miles) | 4.9                                             |     |
| 2016 Member Count            | 427                                             |     |
| 5 Year Average Member Count  | 426                                             |     |
| Date of Last Trim            | January-13                                      |     |
| Date of Next Trim            | 2019                                            |     |

| 5 Year Average |             | 2016       |            |
|----------------|-------------|------------|------------|
| SAIDI          | SAIFI       | SAIDI      | SAIFI      |
| 20.65509329    | 0.280029311 | 82.4941452 | 1.06323185 |

| Total Minutes/Members Interrupted | 44035.00 | 597.0000 | 35225.00 | 454.0000 |
|-----------------------------------|----------|----------|----------|----------|
| Equipment Fault                   | 83.92%   | 81.41%   | 93.29%   | 89.65%   |
| Wind                              | 0.52%    | 0.50%    | 0.00%    | 0.00%    |
| Small Animal                      | 5.37%    | 7.87%    | 6.71%    | 10.35%   |
| Squirrel                          | 0.20%    | 0.67%    | 0.00%    | 0.00%    |
| Unknown Cause                     | 0.85%    | 2.18%    | 0.00%    | 0.00%    |
| Deterioration                     | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Scheduled                         | 1.40%    | 0.50%    | 0.00%    | 0.00%    |
| Power Supplier                    | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Bird                              | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Overload                          | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Public Accident                   | 7.26%    | 6.53%    | 0.00%    | 0.00%    |
| Ice/Snow                          | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Fire                              | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Sag/Clearance                     | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Tree - ROW                        | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Lightning                         | 0.47%    | 0.34%    | 0.00%    | 0.00%    |
| Tree - Non ROW                    | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Large Animal                      | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Vandalism                         | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Contractor                        | 0.00%    | 0.00%    | 0.00%    | 0.00%    |
| Flash Flood                       | 0.00%    | 0.00%    | 0.00%    | 0.00%    |

**Corrections to be made:**

Equipment repaired at time of outage. No corrections necessary at this time.

18-234

Substation Name and Number WEST NICHOLASVILLE 2 18  
 Substation Location 398 Bass Pond Glen Dr., Nicholasville, KY 40356  
 Circuit Name and Number WEST NICHOLASVILLE 2 234  
 Circuit Location Donaldson/Adcom/Etter Dr  
 Total Circuit Length (Miles) 2.1  
 2016 Member Count 49  
 5 Year Average Member Count 48  
 Date of Last Trim February-16  
 Date of Next Trim 2022

| 5 Year Average |             | 2016        |             |
|----------------|-------------|-------------|-------------|
| SAIDI          | SAIFI       | SAIDI       | SAIFI       |
| 31.65531619    | 0.592191289 | 108.9387755 | 1.918367347 |

| Total Minutes/Members Interrupted | 7644.00 | 143.0000 | 5338.00 | 94.0000 |
|-----------------------------------|---------|----------|---------|---------|
| Equipment Fault                   | 0.69%   | 0.70%    | 0.00%   | 0.00%   |
| Wind                              | 29.51%  | 32.87%   | 42.26%  | 50.00%  |
| Small Animal                      | 0.64%   | 0.70%    | 0.00%   | 0.00%   |
| Squirrel                          | 0.00%   | 0.00%    | 0.00%   | 0.00%   |
| Unknown Cause                     | 1.52%   | 0.70%    | 0.00%   | 0.00%   |
| Deterioration                     | 0.00%   | 0.00%    | 0.00%   | 0.00%   |
| Scheduled                         | 0.00%   | 0.00%    | 0.00%   | 0.00%   |
| Power Supplier                    | 0.00%   | 0.00%    | 0.00%   | 0.00%   |
| Bird                              | 27.32%  | 32.17%   | 0.00%   | 0.00%   |
| Overload                          | 0.00%   | 0.00%    | 0.00%   | 0.00%   |
| Public Accident                   | 40.32%  | 32.87%   | 57.74%  | 50.00%  |
| Ice/Snow                          | 0.00%   | 0.00%    | 0.00%   | 0.00%   |
| Fire                              | 0.00%   | 0.00%    | 0.00%   | 0.00%   |
| Sag/Clearance                     | 0.00%   | 0.00%    | 0.00%   | 0.00%   |
| Tree - ROW                        | 0.00%   | 0.00%    | 0.00%   | 0.00%   |
| Lightning                         | 0.00%   | 0.00%    | 0.00%   | 0.00%   |
| Tree - Non ROW                    | 0.00%   | 0.00%    | 0.00%   | 0.00%   |
| Large Animal                      | 0.00%   | 0.00%    | 0.00%   | 0.00%   |
| Vandalism                         | 0.00%   | 0.00%    | 0.00%   | 0.00%   |
| Contractor                        | 0.00%   | 0.00%    | 0.00%   | 0.00%   |
| Flash Flood                       | 0.00%   | 0.00%    | 0.00%   | 0.00%   |

**Corrections to be made:**

Public Accident caused outages. No corrections necessary at this time.



# **DISTRIBUTION RIGHT-OF-WAY VEGETATION MANAGEMENT 2017 PLAN/ 2016 PLAN REVIEW**

**March 2017**

# Blue Grass Energy Vegetation Management Plan

## 2016 Review of Plan Implementation

Blue Grass Energy developed a formal plan to manage the maintenance of vegetation on distribution rights-of-way (ROW) in 2007/2008. The plans goals were established to provide excellent member service, maintain current tree related reliability, and look for opportunities to increase production and reduce program cost. These plans were continued and improved into 2016.

As stated in the previously submitted Vegetation Management Plan, the plan may be modified from time-to-time based on performance as measured by tree-related service reliability and evaluations of member satisfaction with service reliability. Specific reliability metrics may include Tree SAIFI, trends in customer minutes interrupted by tree-related causes and tree-caused primary interruptions per 100 line miles as internal benchmarks of program performance over time. A Tree-Caused Outage Report summarizes these reliability criteria and is regularly reviewed and monitored daily. Upon reporting of tree related outages a field investigation is conducted to determine the root cause.

## 2014-2017 Vegetation Management Strategy

### SCHEDULED MAINTENANCE AND CLEARANCE

Blue Grass Energy provides electric service to over 55,000 members through a network of over 4,700 miles of distribution line. Blue Grass Energy uses a cyclic approach to preventive vegetation management of its electric distribution ROW. Different circuits or portions of circuits may be scheduled on different cycles based on site conditions, sensitivity of the line to interruptions caused by trees or criticality of the line. The maintenance cycle for tree removal, tree pruning or brush control may be the same or different for a given scheduling unit. Following pruning and clearance operations, herbicide application is conducted after one full growing season.

As illustrated in Table 1, Blue Grass Energy completed 27 distribution circuits scheduled in 2016 for a total of 796 miles of distribution line. In 2017, there are 18 distribution circuits, for a total of 736 miles scheduled for completion. The varying site conditions determine the cost and cause completed miles to vary by year.

**Table 1. Blue Grass Energy R/W Miles Scheduled vs. Completed - Trimming**

| Maintenance Year | 2014 | 2015 | 2016 | 2017 |
|------------------|------|------|------|------|
| Scheduled        | 777  | 718  | 796  | 736  |
| Completed        | 777  | 712  | 796  | TBD  |

Of the 2015 maintenance year mileage, 9 circuits consisting of 591 miles were identified for selective herbicide application and completed in 2016. Herbicide application of 17 circuits

consisting of 816 miles from the 2015 & 2016 maintenance years are scheduled to be completed in 2017.

**Table 2. Blue Grass Energy R/W Miles Scheduled vs. Completed - Herbicide**

| Maintenance Year - Herbicide | 2015 | 2016 | 2017 |
|------------------------------|------|------|------|
| Scheduled                    | 591  | 591  | 816  |
| Completed                    | 591  | 591  | TBD  |

## RELIABILITY

In 2008, Blue Grass Energy developed and implemented an outage investigation process to better understand the cause of tree failures. The data was again used in 2016 to identify species failure rates and help plan future scheduled and non scheduled work to eliminate potential outages. The investigation of all tree related outages will continue through 2017 to collect data on major outage categories.

Historical Blue Grass Energy tree caused outages within the right of way are illustrated in Table 3.

**Table 3. Number of Tree-Caused Outages within the ROW on the Blue Grass Energy System†**

| Year          | 2012      | 2013      | 2014      | 2015      | 2016      |
|---------------|-----------|-----------|-----------|-----------|-----------|
| <b>TOTALS</b> | <b>67</b> | <b>65</b> | <b>91</b> | <b>77</b> | <b>86</b> |

†Outages on primary conductor excluding major event days

## 2016 VEGETATION MANAGEMENT PLAN REVIEW

No Changes were implemented in 2016 to the ROW management plan. The “Distribution Right-Of-Way Vegetation Management Plan” submitted March 2015 reiterated in detail the processes that were built into the plan.

In 2016, all scheduled mileage was completed within the 2016 calendar year.

Listed below are some of the processes used in 2016:

1. Continuation of Formal Contractor Evaluation Program. Each contractor will be rated on nine qualitative categories such as customer complaints, quarterly mileage goals, exceptions/ omissions, quality/standards, tools/equipment, unscheduled interruptions/OSHA LWD, contractor cooperation & communication, crew professionalism, and data accuracy.
2. Yearly Revision of formal program policies and procedures and assurance of consistent implementation throughout the system to include additional detailed requirements.
3. Continued yearly revision of a general 5-6 year maintenance cycle for the system based on collected field data. In areas where standard clearances cannot be consistently achieved (e.g., subdivisions), mid cycle assessments will be conducted and cycles adjusted based on those findings. Recommended cycle lengths are guidelines.



4. ISA Certified Arborist Utility Specialist supervisory personnel have adequate utility vegetation management technical expertise and a qualified ISA Certified Assistant Arborist is on staff.
5. Selective use of herbicides to control resprouting from the stumps of removed deciduous trees.
6. Continuation of formal herbicide spray program to control woody species following maintenance pruning.
7. Written notification of property owners of the intent to prune trees and requirement of written permission for "yard" tree removals. We always strive to not allow property owners to influence pruning clearances.
8. The crew labor and equipment complements were adjusted throughout the year to maximize cost effectiveness.
9. Revised and improved the formal work monitoring and completion process. Each circuit is individually and 100 percent audited by ROW supervisory personnel to ensure specifications for clearance and quality are achieved.
10. Records were maintained of key aspects of the ROW vegetation management program to document program performance. This data provides information necessary for ongoing program management and circuit scheduling.
11. Meet requirements for Arbor Day Foundation Tree Line USA certification.

#### **2017 VEGETATION MANAGEMENT PLAN**

In addition to continuing the Distribution Right-Of-Way Vegetation Management Plans outlined for 2016 we intend to utilize the following key objectives in the upcoming year:

- Continue Formal Crew Field Audit Evaluation process, at the 100 percent level
- Continue to Uphold National Arbor Day Tree Line USA standards
- Continue to uphold ANSI A300 pruning and Z133 safety standards
- Utilization of vegetation management Best Management Practices as defined by the International Society of Arboriculture.
- Continue to evaluate and increase production and quality with established work force.
- Further inspection and reduction of unnecessary reactive maintenance
- Utilize multiple ROW vegetation maintenance contractors
- Continue with formal herbicide spray program to control woody species following maintenance pruning.

# Appendix

## ROW VEGETATION MAINTENANCE CLEARANCE CYCLE SCHEDULING STRATEGY

The following table summarizes the Blue Grass Energy ROW vegetation maintenance scheduling strategy. Individual circuits may be accelerated or deferred based on assessment of field conditions and operating performance.

| <b>Circuit Description</b>     | <b>Primary Cycle Length (Years)</b> | <b>Mid-cycle Inspection/selective Tree Maintenance (Years)</b> |
|--------------------------------|-------------------------------------|----------------------------------------------------------------|
| Feeder Multi-phase             | 5-6                                 | 2 to 3                                                         |
| Feeder Laterals (single-phase) | 5-6                                 |                                                                |
| Industrial Circuits            | 5-6                                 | Annual inspection and selective maintenance                    |