



Fleming-Mason Energy

A Touchstone Energy Cooperative 

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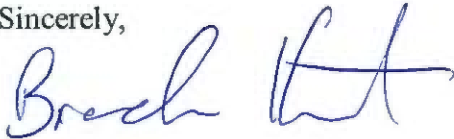
Jeff DeRouen
Executive Director
Public Service Commission
P.O. Box 615
Frankfort, KY 40602-0615

Dear Mr. DeRouen:

Enclosed is Fleming Mason Energy's Reliability Report for the calendar year of 2014 requested by the Public Service Commission's Order dated May 30, 2013 for Case No. 2011-00450.

If you have any questions or comments, please contact the office at, 1-800-464-3144 or by email at bhunt@fme.coop.

Sincerely,



Brandon Hunt
Engineering Manager

KENTUCKY PUBLIC SERVICE COMMISSION

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Electric Distribution Utility Annual Reliability Report

PUBLIC SERVICE
COMMISSION

SECTION 1: CONTACT INFORMATION

| | |
|----------------------------|--|
| UTILITY NAME | FLEMING MASON ENERGY |
| REPORT PREPARED BY | BRANDON HUNT |
| E-MAIL ADDRESS OF PREPARER | bhunt@fme.coop |
| PHONE NUMBER OF PREPARER | 606-845-2661 |

SECTION 2: REPORTING YEAR

| | |
|-------------------------|------|
| CALENDAR YEAR OF REPORT | 2014 |
|-------------------------|------|

SECTION 3: MAJOR EVENT DAYS (MED)

| | |
|--|------------|
| T_{MED} | 9.78 |
| FIRST DATE USED TO DETERMINE T_{MED} | 1/1/2009 |
| LAST DATE USED TO DETERMINE T_{MED} | 12/31/2013 |
| NUMBER OF MED IN REPORT YEAR | 3 |

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 | 23,480 | TOTAL CIRCUITS | 42 |
|-----------------|--------|----------------|----|

Excluding MED

| | 5 YEAR AVERAGE | | REPORTING YEAR |
|-------|----------------|-------|----------------|
| SAIDI | 139.61 | SAIDI | 106.7 |
| SAIFI | 1.22 | SAIFI | 0.82 |

Including MED

| | 5 YEAR AVERAGE | | REPORTING YEAR |
|-------|----------------|-------|----------------|
| SAIDI | 259.45 | SAIDI | 140.7 |
| SAIFI | 1.57 | SAIFI | 0.99 |

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
OAK RIDGE SUBSTATION
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Lewis, Oak Ridge Rd, Mt. Zion Ridge
3. CIRCUIT NAME AND NUMBER
BURTONVILLE - 124
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
LEWIS, BURTONVILLE RD, BURTONVILLE
5. TOTAL CIRCUIT LENGTH (MILES)
57.8
6. CUSTOMER COUNT FOR THIS CIRCUIT
321
- 7.. DATE OF LAST CIRCUIT TRIM (VM)
2012
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

| | | | | | |
|--------------------|------|---------------|-------|-----------------|-----|
| Equipment Failure | 0.25 | Tree Failure | 6.77 | Cust Caused | 0 |
| Installation Fault | 0 | Tree w/ Ice | 8.13 | Motor Vehicle | 0 |
| Conductor Sag | 0 | In-house Tree | 0 | Public Cut Tree | 0 |
| Overload | 0 | Lightning | 84.46 | Public Other | 0 |
| Decay/Age Equip | 0 | Wind | 0 | Other | 0 |
| Corrosion/Abrasion | 0 | Small Animal | 0.02 | Cause Unknown | 0.2 |
| Tree Growth | 0 | Animal | 0 | | |
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
22.7
10. REPORTING YEAR (SAIDI)
15.92
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.21
12. REPORTING YEAR (SAIFI)
0.23
13. CORRECTIVE ACTION PLAN

Lightning was the major cause for this circuit. Additional lightning protection schemes such as lightning arresters will be investigated.

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

KENTUCKY PUBLIC SERVICE COMMISSION

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
FLEMINGSBURG
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
FLEMING, ENERGY RD, FLEMINGSBURG
3. CIRCUIT NAME AND NUMBER
COWAN, OCR - 114
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
COWAN, KY 32, WESTERN FLEMING COUNTY
5. TOTAL CIRCUIT LENGTH (MILES)
103
6. CUSTOMER COUNT FOR THIS CIRCUIT
682
7. DATE OF LAST CIRCUIT TRIM (VM)
2009
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

| | | | | | |
|--------------------|------|---------------|-------|-----------------|------|
| Equipment Failure | 4.95 | Tree Failure | 0.25 | Cust Caused | 0 |
| Installation Fault | 0 | Tree w/ Ice | 0 | Motor Vehicle | 0 |
| Conductor Sag | 0 | In-house Tree | 0 | Public Cut Tree | 7.95 |
| Overload | 0.48 | Lightning | 69.78 | Public Other | 0 |
| Decay/Age Equip | 2.88 | Wind | 0 | Other | 0 |
| Corrosion/Abrasion | 0.15 | Small Animal | 0.18 | Cause Unknown | 13.1 |
| Tree Growth | 0.26 | Animal | 0 | | |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
34.05
10. REPORTING YEAR (SAIDI)
50.3
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.47
12. REPORTING YEAR (SAIFI)
0.49
13. CORRECTIVE ACTION PLAN

MAJOR CAUSE WAS LIGHTNING ON THIS CIRCUIT. CIRCUIT FEEDS THROUGH AN OPEN TERRAIN. ADDITIONAL LIGHTNING PROTECTIONSSCHEMES SUCH AS LIGHTNING ARRESTERS WILL BE INVESTIGATED.

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

KENTUCKY PUBLIC SERVICE COMMISSION

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
HILDA
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
ROWAN, KY 32, MOREHEAD
3. CIRCUIT NAME AND NUMBER
CRANSTON, OCR-104
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
CRANSTON, CRANSTON, EASTERN ROWAN COUNTY
5. TOTAL CIRCUIT LENGTH (MILES)
63
6. CUSTOMER COUNT FOR THIS CIRCUIT
729
7. DATE OF LAST CIRCUIT TRIM (VM)
2013
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

| | | | | | |
|--------------------|------|---------------|------|-----------------|-------|
| Equipment Failure | 0.94 | Tree Failure | 0.19 | Cust Caused | 0 |
| Installation Fault | 0 | Tree w/ Ice | 1.22 | Motor Vehicle | 3.88 |
| Conductor Sag | 0 | In-house Tree | 0 | Public Cut Tree | 93.65 |
| Overload | 0.03 | Lightning | 0.03 | Public Other | 0 |
| Decay/Age Equip | 0 | Wind | 0 | Other | 0.05 |
| Corrosion/Abrasion | 0.45 | Small Animal | 0.03 | Cause Unknown | 3.45 |
| Tree Growth | 0 | Animal | 0.02 | | |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
44.06
10. REPORTING YEAR (SAIDI)
83.01
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.25
12. REPORTING YEAR (SAIFI)
0.33
13. CORRECTIVE ACTION PLAN

THIS CIRCUIT HAD A LARGE OUTAGE THAT WAS CAUSED BY A MEMBER CUTTING A TREE ONTO THE THREE PHASE LINE. INCREASE CUSTOMER AWARENESS AND NOTIFICATION.

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

KENTUCKY PUBLIC SERVICE COMMISSION

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
SNOW HILL
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
ROBERTSON, KY 165, PIQUA
3. CIRCUIT NAME AND NUMBER
FAIRVIEW-124
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
FAIRVIEW, US 68, NORTHERN FLEMING COUNTY
5. TOTAL CIRCUIT LENGTH (MILES)
45.4
6. CUSTOMER COUNT FOR THIS CIRCUIT
444
- 7.. DATE OF LAST CIRCUIT TRIM (VM)
2010
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

| | | | | | |
|--------------------|------|---------------|-------|-----------------|------|
| Equipment Failure | 0.64 | Tree Failure | 0.19 | Cust Caused | 0 |
| Installation Fault | 0 | Tree w/ Ice | 0 | Motor Vehicle | 0 |
| Conductor Sag | 0 | In-house Tree | 0 | Public Cut Tree | 0 |
| Overload | 0 | Lightning | 96.89 | Public Other | 0 |
| Decay/Age Equip | 0 | Wind | 0 | Other | 0 |
| Corrosion/Abrasion | 0 | Small Animal | 0.17 | Cause Unknown | 1.84 |
| Tree Growth | 0 | Animal | 0.22 | | |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
17.39
10. REPORTING YEAR (SAIDI)
36
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.2
12. REPORTING YEAR (SAIFI)
0.27
13. CORRECTIVE ACTION PLAN

MAJOR CAUSE WAS LIGHTNING ON THIS CIRCUIT. CIRCUIT FEEDS THROUGH AN OPEN TERRAIN. ADDITIONAL LIGHTNING PROTECTIONSSCHEMES SUCH AS LIGHTNING ARRESTERS WILL BE INVESTIGATED.

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

KENTUCKY PUBLIC SERVICE COMMISSION

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
MAYSVILLE
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
MASON, KY 9, MAYSVILLE
3. CIRCUIT NAME AND NUMBER
FEDERAL MOGAL-OCR 114
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
MAYSVILLE, KY 9, MAYSVILLE AREA
5. TOTAL CIRCUIT LENGTH (MILES)
6.2
6. CUSTOMER COUNT FOR THIS CIRCUIT
65
- 7.. DATE OF LAST CIRCUIT TRIM (VM)
2010
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

| | | | | | |
|--------------------|---|---------------|-------|-----------------|---|
| Equipment Failure | 0 | Tree Failure | 0 | Cust Caused | 0 |
| Installation Fault | 0 | Tree w/ Ice | 0 | Motor Vehicle | 0 |
| Conductor Sag | 0 | In-house Tree | 0 | Public Cut Tree | 0 |
| Overload | 0 | Lightning | 47.92 | Public Other | 0 |
| Decay/Age Equip | 0 | Wind | 52.08 | Other | 0 |
| Corrosion/Abrasion | 0 | Small Animal | 0 | Cause Unknown | 0 |
| Tree Growth | 0 | Animal | 0 | | |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
1.31
10. REPORTING YEAR (SAIDI)
1.34
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.013
12. REPORTING YEAR (SAIFI)
0.014
13. CORRECTIVE ACTION PLAN

THIS CIRCUIT IS A VERY SHORT CIRCUIT THAT HAS A MINIMUM AMOUNT OF OUTAGES. A FEW OUTAGES CAN SHIFT PERCENTAGES TO THE EXTREME.

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

KENTUCKY PUBLIC SERVICE COMMISSION

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
PLUMMERS LANDING
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
FLEMING, KY 32, MUSES MILL
3. CIRCUIT NAME AND NUMBER
HILLSBORO-OCR 144
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
MUSES MILL, KY 1013, EASTERN FLEMING COUNTY
5. TOTAL CIRCUIT LENGTH (MILES)
39.6
6. CUSTOMER COUNT FOR THIS CIRCUIT
330
- 7.. DATE OF LAST CIRCUIT TRIM (VM)
2013
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

| | | | | | |
|--------------------|-------|---------------|-------|-----------------|------|
| Equipment Failure | 1.55 | Tree Failure | 80.07 | Cust Caused | 0 |
| Installation Fault | 0 | Tree w/ Ice | 0.56 | Motor Vehicle | 0 |
| Conductor Sag | 0 | In-house Tree | 0 | Public Cut Tree | 0 |
| Overload | 0 | Lightning | 0.94 | Public Other | 0 |
| Decay/Age Equip | 15.02 | Wind | 0 | Other | 0 |
| Corrosion/Abrasion | 0 | Small Animal | 0.67 | Cause Unknown | 1.18 |
| Tree Growth | 0 | Animal | 0 | | |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
12.7
10. REPORTING YEAR (SAIDI)
17.36
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.08
12. REPORTING YEAR (SAIFI)
0.098
13. CORRECTIVE ACTION PLAN

TREE FAILURE FROM OVERHEAD OR DEAD TREE WAS THE MOST SIGNIFICANT CAUSE FOR THIS CIRCUIT. A LARGE OUTAGE OCCURRED WHEN A OUT OF ROW TREE FELL ON THE THREE PHASE

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

KENTUCKY PUBLIC SERVICE COMMISSION

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
Peasticks
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Bath, Peasticks, Peasticks
3. CIRCUIT NAME AND NUMBER
MOORES FERRY - OCR 124
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
SALT LICK, US 60, EASTERN BATH COUNTY
5. TOTAL CIRCUIT LENGTH (MILES)
47.5
6. CUSTOMER COUNT FOR THIS CIRCUIT
574
- 7.. DATE OF LAST CIRCUIT TRIM (VM)
2014
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

| | | | | | |
|--------------------|------|---------------|------|-----------------|-------|
| Equipment Failure | 5.55 | Tree Failure | 0 | Cust Caused | 0.03 |
| Installation Fault | 0 | Tree w/ Ice | 0 | Motor Vehicle | 91.42 |
| Conductor Sag | 0 | In-house Tree | 0.04 | Public Cut Tree | 0 |
| Overload | 0.07 | Lightning | 0.17 | Public Other | 0 |
| Decay/Age Equip | 0 | Wind | 2.35 | Other | 0.08 |
| Corrosion/Abrasion | 0 | Small Animal | 0.29 | Cause Unknown | 0 |
| Tree Growth | 0 | Animal | 0 | | |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
49.16
10. REPORTING YEAR (SAIDI)
101.81
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.27
12. REPORTING YEAR (SAIFI)
0.41
13. CORRECTIVE ACTION PLAN

THE LARGEST CAUSE ON THIS CIRCUIT WAS VEHICLE RELATED ACCIDENT. A LARGE OUTAGE OF THIS CAUSE WAS THE REASON FOR THIS CIRCUIT BEING ABOVE IT'S TWO YEAR AVERAGE.

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

KENTUCKY PUBLIC SERVICE COMMISSION

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
HILDA
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
ROWAN, KY 32, MOREHEAD
3. CIRCUIT NAME AND NUMBER
INTERCHANGE - OCR 114
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
MOREHEAD, KY 32, MOREHEAD
5. TOTAL CIRCUIT LENGTH (MILES)
17.9
6. CUSTOMER COUNT FOR THIS CIRCUIT
563
7. DATE OF LAST CIRCUIT TRIM (VM)
2012
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

| | | | | | |
|--------------------|-------|---------------|-------|-----------------|-------|
| Equipment Failure | 1.94 | Tree Failure | 1.46 | Cust Caused | 0 |
| Installation Fault | 0 | Tree w/ Ice | 0 | Motor Vehicle | 0 |
| Conductor Sag | 0 | In-house Tree | 0 | Public Cut Tree | 0 |
| Overload | 0 | Lightning | 0 | Public Other | 0 |
| Decay/Age Equip | 0 | Wind | 0 | Other | 0 |
| Corrosion/Abrasion | 0 | Small Animal | 48.74 | Cause Unknown | 28.11 |
| Tree Growth | 15.45 | Animal | 3.85 | | |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
5.48
10. REPORTING YEAR (SAIDI)
4.46
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.071
12. REPORTING YEAR (SAIFI)
0.078
13. CORRECTIVE ACTION PLAN
MOST SIGNIFICANT OUTAGE CAUSE ON THIS CIRCUIT WAS SMALL ANIMAL RELATED OUTAGES. FME CURRENTLY INSTALLS ANIMAL GUARDS ON ALL NEW TRANSFORMER INSTALLATIONS. ANIMAL OUTAGE PROTECTION DEVICES WILL BE INVESTIGATED FOR THIS AREA.

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

KENTUCKY PUBLIC SERVICE COMMISSION

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
OAK RIDGE
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
LEWIS, OAK RIDGE, MT ZION RIDGE
3. CIRCUIT NAME AND NUMBER
PETERSVILLE - OCR 134
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
PETERSVILLE, KY 344, PETERSVILLE
5. TOTAL CIRCUIT LENGTH (MILES)
32.8
6. CUSTOMER COUNT FOR THIS CIRCUIT
170
- 7.. DATE OF LAST CIRCUIT TRIM (VM)
2012
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

| | | | | | |
|--------------------|------|---------------|-------|-----------------|------|
| Equipment Failure | 2.59 | Tree Failure | 87.39 | Cust Caused | 0.16 |
| Installation Fault | 0 | Tree w/ Ice | 0 | Motor Vehicle | 5.08 |
| Conductor Sag | 0 | In-house Tree | 0 | Public Cut Tree | 0 |
| Overload | 0 | Lightning | 1.25 | Public Other | 0 |
| Decay/Age Equip | 0 | Wind | 0 | Other | 0 |
| Corrosion/Abrasion | 0 | Small Animal | 0 | Cause Unknown | 2.5 |
| Tree Growth | 0 | Animal | 1.03 | | |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
14.87
10. REPORTING YEAR (SAIDI)
15.25
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.11
12. REPORTING YEAR (SAIFI)
0.09
13. CORRECTIVE ACTION PLAN

TREE FAILURE WAS THE MOST SIGNIFICANT OUTAGE ON THIS CIRCUIT. THERE WAS ONE LARGE TREE RELATED OUTAGE FOR THIS REPORTING YEAR THAT SCEWED THE OUTAGES NUMBERS.

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

KENTUCKY PUBLIC SERVICE COMMISSION

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
RECTORVILLE
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
LEWIS, OWL HOLLOW RD, RECTORVILLE
3. CIRCUIT NAME AND NUMBER
PLUMVILLE - OCR 134
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
PLUMVILLE, KY 9, PLUMVILLE
5. TOTAL CIRCUIT LENGTH (MILES)
76.2
6. CUSTOMER COUNT FOR THIS CIRCUIT
925
- 7.. DATE OF LAST CIRCUIT TRIM (VM)
2011
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

| | | | | | |
|--------------------|-------|---------------|------|-----------------|------|
| Equipment Failure | 91.18 | Tree Failure | 0 | Cust Caused | 0.02 |
| Installation Fault | 0 | Tree w/ Ice | 0 | Motor Vehicle | 0 |
| Conductor Sag | 0 | In-house Tree | 0 | Public Cut Tree | 0 |
| Overload | 0 | Lightning | 3.83 | Public Other | 0 |
| Decay/Age Equip | 3.05 | Wind | 0 | Other | 0 |
| Corrosion/Abrasion | 0 | Small Animal | 0.15 | Cause Unknown | 1.73 |
| Tree Growth | 0 | Animal | 0 | | |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
64.06

10. REPORTING YEAR (SAIDI)
92.89

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.46

12. REPORTING YEAR (SAIFI)
0.52

13. CORRECTIVE ACTION PLAN

A CONDUCTOR FAILURE OCCURRED ON THE THREE PHASE DURING A EXTREME COLD CONDITION. CONDITION OF THE WIRE AND OVERLOADING HAS ALREADY BEEN VERIFIED AS A NON CONTRIBUTING CAUSE. A BAD PLACE IN THE WIRE AND THE EXTREME TEMPS ARE BELIEVED TO BE THE REPEAT INFORMATION FOR EACH CIRCUIT EXCEEDING ITS 5 YEAR AVERAGE
FOR SAIDI AND/OR SAIFI

KENTUCKY PUBLIC SERVICE COMMISSION

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
HILLSBORO
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
FLEMING, KY 111, HILLSBORO
3. CIRCUIT NAME AND NUMBER
SHERBURNE - OCR 124
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
SHERBURNE, KY 11, FLEMING/BATH COUNTY LINE
5. TOTAL CIRCUIT LENGTH (MILES)
123.4
6. CUSTOMER COUNT FOR THIS CIRCUIT
565
7. DATE OF LAST CIRCUIT TRIM (VM)
2013
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

| | | | | | |
|--------------------|-------|---------------|-------|-----------------|------|
| Equipment Failure | 0.19 | Tree Failure | 0 | Cust Caused | 0 |
| Installation Fault | 0 | Tree w/ Ice | 0 | Motor Vehicle | 0 |
| Conductor Sag | 0 | In-house Tree | 0 | Public Cut Tree | 0 |
| Overload | 0 | Lightning | 67.96 | Public Other | 0 |
| Decay/Age Equip | 18.38 | Wind | 3.71 | Other | 0 |
| Corrosion/Abrasion | 0 | Small Animal | 1.23 | Cause Unknown | 8.47 |
| Tree Growth | 0 | Animal | 0.05 | | |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
66.3
10. REPORTING YEAR (SAIDI)
115.98
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.57
12. REPORTING YEAR (SAIFI)
0.72
13. CORRECTIVE ACTION PLAN

MAJOR CAUSE WAS LIGHTNING ON THIS CIRCUIT. CIRCUIT FEEDS THROUGH AN OPEN TERRAIN. ADDITIONAL LIGHTNING PROTECTIONSSCHEMES SUCH AS LIGHTNING ARRESTERS WILL BE INVESTIGATED.

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

KENTUCKY PUBLIC SERVICE COMMISSION

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

MURPHSVILLE

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

MASON, MURPHSVILLE RD, MURPHYSVILLE

3. CIRCUIT NAME AND NUMBER

WEAVER RD - OCR 114

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

MAYSLICK, WEAVER RD, SOUTHERN MASON COUNTY

5. TOTAL CIRCUIT LENGTH (MILES)

83.9

6. CUSTOMER COUNT FOR THIS CIRCUIT

485

7. DATE OF LAST CIRCUIT TRIM (VM)

2009

8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

| | | | | | |
|--------------------|------|---------------|-------|-----------------|------|
| Equipment Failure | 4.08 | Tree Failure | 0.11 | Cust Caused | 9.91 |
| Installation Fault | 0 | Tree w/ Ice | 0 | Motor Vehicle | 0 |
| Conductor Sag | 0 | In-house Tree | 0 | Public Cut Tree | 0 |
| Overload | 0.09 | Lightning | 20.76 | Public Other | 0 |
| Decay/Age Equip | 8.15 | Wind | 9.46 | Other | 0 |
| Corrosion/Abrasion | 0.44 | Small Animal | 35.17 | Cause Unknown | 3.17 |
| Tree Growth | 8.46 | Animal | 0.08 | | |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

18.15

10. REPORTING YEAR (SAIDI)

40.87

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.2

12. REPORTING YEAR (SAIFI)

0.51

13. CORRECTIVE ACTION PLAN

MOST SIGNIFICANT OUTAGE CAUSE ON THIS CIRCUIT WAS SMALL ANIMAL RELATED OUTAGES. FME CURRENTLY INSTALLS ANIMAL GUARDS ON ALL NEW TRANSFORMER INSTALLATIONS. ANIMAL OUTAGE PROTECTION DEVICES WILL BE INVESTIGATED FOR THIS AREA.

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

KENTUCKY PUBLIC SERVICE COMMISSION

SECTION 6: VEGETATION MANAGEMENT PLAN REVIEW

INCLUDE CURRENT VEGETATION MANAGEMENT PLAN

Additional page may be attached as needed.

2015 - FLEMINGSBURG SUB (COWAN OCR-114, TILTON OCR-104)
MURPHYSVILLE SUB (WEAVER RD OCR-114, STONEWALL OCR-124)
Flemingsburg (Hospital, Toyo Seat, Underbuild)

Trimming Cycle - 6 years

Spaying Cycle - 3 years

SECTION 7: UTILITY COMMENTS

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