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MAR 24 2017

Public Service
Commission

March 22, 2017

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 2016 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, P.E.
Engineering Manager

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

RECEIVED

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

MAR 24 2017

Public Service
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SECTION 2: REPORTING YEAR

CALENDAR YEAR OF REPORT 2016

SECTION 3: MAJOR EVENT DAYS (MED)

T_{MED}	<u>9.54</u>
FIRST DATE USED TO DETERMINE T_{MED}	<u>1/1/2011</u>
LAST DATE USED TO DETERMINE T_{MED}	<u>12/31/2016</u>
NUMBER OF MED IN REPORT YEAR	<u>1</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 24,266 TOTAL CIRCUITS 42

Excluding MED

	5 YEAR AVERAGE		REPORTING YEAR
SAIDI	<u>142.99</u>	SAIDI	<u>118.59</u>
SAIFI	<u>1.105</u>	SAIFI	<u>1.01</u>

Including MED

	5 YEAR AVERAGE		REPORTING YEAR
SAIDI	<u>292.85</u>	SAIDI	<u>142.87</u>
SAIFI	<u>1.55</u>	SAIFI	<u>1.115</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}

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)
KY 32, PLUMMERS LANDING RD
3. CIRCUIT NAME AND NUMBER
BLUEBANK OCR 114
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
KY 32 TOWARDS FLEMINGSBURG
5. TOTAL CIRCUIT LENGTH (MILES)
58.9
6. CUSTOMER COUNT FOR THIS CIRCUIT
635
- 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	57.4	Tree Failure	1.73	Cust Caused	0.2
Installation Fault	0	Tree w/ Ice	0	Motor Vehicle	28.1
Conductor Sag	0	In-house Tree	0	Public Cut Tree	0
Overload	0	Lightning	0.6	Public Other	0
Decay/Age Equip	0	Wind	0	Other	0
Corrosion/Abrasion	0	Small Animal	3.2	Cause Unknown	8.6
Tree Growth	0	Animal	0		

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
20.29
10. REPORTING YEAR (SAIDI)
79.74
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.264
12. REPORTING YEAR (SAIFI)
1.355
13. CORRECTIVE ACTION PLAN

Material and Equipment failure was the leading cause.

**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)

Oak Ridge Rd

3. CIRCUIT NAME AND NUMBER

BURTONVILLE - OCR 124

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

BURTONVILLE AREA

5. TOTAL CIRCUIT LENGTH (MILES)

57.8

6. CUSTOMER COUNT FOR THIS CIRCUIT

319

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	19.4	Tree Failure	49.7	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	10.5	Public Other	0
Decay/Age Equip	10.6	Wind	0	Other	6.6
Corrosion/Abrasion	0	Small Animal	0.15	Cause Unknown	2.8
Tree Growth	0	Animal	0		

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

31.56

10. REPORTING YEAR (SAIDI)

42.6

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.3

12. REPORTING YEAR (SAIFI)

0.29

13. CORRECTIVE ACTION PLAN

L

MAJOR CAUSE WAS TREE FAILURE. WHILE MOST OF THESE TREE RELATED OUTAGES WERE STORM ASSISTED, ROW INSPECTIONS WILL BE MADE.

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)

KY 165 - PIQUA

3. CIRCUIT NAME AND NUMBER

DOYLE PIKE - OCR 144

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

FEEDS FROM THE SUB TO DOYLE PIKE

5. TOTAL CIRCUIT LENGTH (MILES)

49.7

6. CUSTOMER COUNT FOR THIS CIRCUIT

270

7.. DATE OF LAST CIRCUIT TRIM (VM)

2016

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

Equipment Failure	72.2	Tree Failure	0	Cust Caused	0
Installation Fault	0	Tree w/ Ice	0	Motor Vehicle	1.4
Conductor Sag	0	In-house Tree	0	Public Cut Tree	0
Overload	0	Lightning	1.9	Public Other	0
Decay/Age Equip	0	Wind	0	Other	0
Corrosion/Abrasion	0	Small Animal	11.6	Cause Unknown	12.8
Tree Growth	0	Animal	0		

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

7.45

10. REPORTING YEAR (SAIDI)

16.05

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.075

12. REPORTING YEAR (SAIFI)

0.16

13. CORRECTIVE ACTION PLAN

CIRCUIT HAD A COUPLE MODERATELY SIZED EQUIPMENT FAILURE OUTAGES THAT INVOLVED VARIOUS EQUIPMENT. WILL MONITOR DURING NEXT INSPECTION CYCLE.

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

SHARKEY

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

KY 801 - INDUSTRIAL PARK

3. CIRCUIT NAME AND NUMBER

FAMILY DOLLAR - OCR 114

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

UNDERGROUND CKT INSIDE OF PARK

5. TOTAL CIRCUIT LENGTH (MILES)

0.7

6. CUSTOMER COUNT FOR THIS CIRCUIT

5

7.. DATE OF LAST CIRCUIT TRIM (VM)

NA

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	1	Public Other	0
Decay/Age Equip	0	Wind	0	Other	0
Corrosion/Abrasion	0	Small Animal	0	Cause Unknown	0
Tree Growth	0	Animal	0		

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

0

10. REPORTING YEAR (SAIDI)

1.08

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0

12. REPORTING YEAR (SAIFI)

0.002

13. CORRECTIVE ACTION PLAN

SMALL UNDERGROUND CIRCUIT THAT HAD ONE OUTAGE DURING A LIGHTNING STORM. FIRST OUTAGE IN 5 YEARS.

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)
2016
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Equipment Failure	95.8	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	0	Public Other	0
Decay/Age Equip	0	Wind	0	Other	0
Corrosion/Abrasion	0	Small Animal	0	Cause Unknown	4.1
Tree Growth	0	Animal	0		

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
1.56
10. REPORTING YEAR (SAIDI)
4.8
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.014
12. REPORTING YEAR (SAIFI)
0.04
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

PEASTICKS

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

PEASTICKS RD - BATH COUNTY

3. CIRCUIT NAME AND NUMBER

FORDGE MILL - OCR 114

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

FORDGE MILL RD - PEASTICKS AREA

5. TOTAL CIRCUIT LENGTH (MILES)

42.8

6. CUSTOMER COUNT FOR THIS CIRCUIT

382

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	89	Tree Failure	8.25	Cust Caused	0.08
Installation Fault	0	Tree w/ Ice	0	Motor Vehicle	0
Conductor Sag	0	In-house Tree	0	Public Cut Tree	0
Overload	0	Lightning	0.8	Public Other	0
Decay/Age Equip	0	Wind	0	Other	0
Corrosion/Abrasion	0	Small Animal	0.09	Cause Unknown	1.2
Tree Growth	0	Animal	0		

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

26.4

10. REPORTING YEAR (SAIDI)

32.2

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.015

12. REPORTING YEAR (SAIFI)

0.03

13. CORRECTIVE ACTION PLAN

A SINGLE LARGE OUTAGE OF CONDUCTOR FAILURE CAUSED EQUIPMENT FAILURE TO BE THE HIGHEST OUTAGE CAUSE.

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

CHARTERS

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

KY 8, CHARTERS, LEWIS COITY

3. CIRCUIT NAME AND NUMBER

HERRON HILL - OCR 124

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

KY 9 TOWARDS RIBOLT AREA

5. TOTAL CIRCUIT LENGTH (MILES)

106.4

6. CUSTOMER COUNT FOR THIS CIRCUIT

709

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	76.9	Tree Failure	6.1	Cust Caused	0.08
Installation Fault	0	Tree w/ Ice	0	Motor Vehicle	14.7
Conductor Sag	0	In-house Tree	0	Public Cut Tree	0
Overload	0	Lightning	1	Public Other	0
Decay/Age Equip	0.1	Wind	0.02	Other	0
Corrosion/Abrasion	0	Small Animal	0.04	Cause Unknown	1.1
Tree Growth	0	Animal	0		

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

34.9

10. REPORTING YEAR (SAIDI)

82.2

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.27

12. REPORTING YEAR (SAIFI)

0.68

13. CORRECTIVE ACTION PLAN

A LARGE OUTAGE THAT WAS CUASED BY A STEPDOWN TRANSFORMER FAILURE WAS THE LEADING CAUSE TO THE EQUIPMENT FAILURE BEING THE HIGHEST CAUSE.

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)

FLEMINGSBURG, ENERGY RD, FLEMING COUNTY

3. CIRCUIT NAME AND NUMBER

HOSPITAL - OCR 124

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

KY 32 / KY 57

5. TOTAL CIRCUIT LENGTH (MILES)

5

6. CUSTOMER COUNT FOR THIS CIRCUIT

165

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	70.9	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	20.7	Public Other	0
Decay/Age Equip	0	Wind	0	Other	0
Corrosion/Abrasion	0	Small Animal	6.7	Cause Unknown	1.5
Tree Growth	0	Animal	0		

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

0.9

10. REPORTING YEAR (SAIDI)

4.36

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.02

12. REPORTING YEAR (SAIFI)

0.094

13. CORRECTIVE ACTION PLAN

MOST SIGNIFICANT OUTAGE CAUSE ON THIS CIRCUIT WAS EQUIPMENT FAILURE. A LARGE OUTAGE THAT WAS CAUSED BY AN INSULATOR FAILURE WAS THE REASON THIS CIRCUIT WAS LARGER THAN ITS USUALLY LOW 5 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

PEASTICKS

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

PEASTICKS RD, BATH COUNTY

3. CIRCUIT NAME AND NUMBER

MOORES FERRY - OCR 124

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

MOORES FERRY RD, FEARING RD

5. TOTAL CIRCUIT LENGTH (MILES)

47.5

6. CUSTOMER COUNT FOR THIS CIRCUIT

549

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	95.4	Tree Failure	0.7	Cust Caused	0.2
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	0.3	Cause Unknown	3.2
Tree Growth	0	Animal	0		

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

50.3

10. REPORTING YEAR (SAIDI)

46.63

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.28

12. REPORTING YEAR (SAIFI)

0.33

13. CORRECTIVE ACTION PLAN

A LARGE OUTAGE THAT INVOLVED SOME SPACER CABLE IN THE AREA WAS THE REASON FOR EQUIPMENT FAILURE TO BE FIRST ON THE LIST. INCREASED INSPECTION OF THE SPACER CABLE WILL RESULT

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)

KY 32 / PLUMMERS LANDING RD, FLEMING COUNTY

3. CIRCUIT NAME AND NUMBER

MUSES MILL - OCR 124

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

KY 1013, MUSES MILL AREA

5. TOTAL CIRCUIT LENGTH (MILES)

72.2

6. CUSTOMER COUNT FOR THIS CIRCUIT

489

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	1.6	Tree Failure	91.8	Cust Caused	0.7
Installation Fault	0	Tree w/ Ice	0	Motor Vehicle	0
Conductor Sag	0	In-house Tree	0	Public Cut Tree	0
Overload	0	Lightning	0.7	Public Other	0
Decay/Age Equip	3.3	Wind	0	Other	0
Corrosion/Abrasion	1.5	Small Animal	0.03	Cause Unknown	0.1
Tree Growth	0	Animal	0		

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

43.5

10. REPORTING YEAR (SAIDI)

101

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.45

12. REPORTING YEAR (SAIFI)

0.64

13. CORRECTIVE ACTION PLAN

TREE FAILURE AS RESULT OF HIGH WINDS WAS THE HIGHEST CAUSE FOR THIS CIRCUIT. WINDS WERE A STRONG CAUSE, BUT THE CIRCUIT WAS HOT SPOTTED FOR ROW CONDITIONS.

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)

RECTORVILLE, LEWIS COUNTY

3. CIRCUIT NAME AND NUMBER

OWL HOLLOW - OCR 114

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

OWL HOLLOW RD

5. TOTAL CIRCUIT LENGTH (MILES)

54.2

6. CUSTOMER COUNT FOR THIS CIRCUIT

294

7.. DATE OF LAST CIRCUIT TRIM (VM)

2016

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

Equipment Failure	9.5	Tree Failure	86.9	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	0.96	Cause Unknown	2.4
Tree Growth	0	Animal	0		

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

7.47

10. REPORTING YEAR (SAIDI)

25.21

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.05

12. REPORTING YEAR (SAIFI)

0.17

13. CORRECTIVE ACTION PLAN

LARGE TREE RELATED OUTAGE SKEWED THE OUTAGE NUMBERS TOWARDS THIS CATEGORY. THIS CIRCUIT WAS CLEARED IN 2016.

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)

RECTORVILLE, LEWIS COUNTY

3. CIRCUIT NAME AND NUMBER

PLUMVILLE - OCR 134

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

PLUMVILLE, KY 9

5. TOTAL CIRCUIT LENGTH (MILES)

76.2

6. CUSTOMER COUNT FOR THIS CIRCUIT

924

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	28.3	Tree Failure	43.9	Cust Caused	1.1
Installation Fault	0	Tree w/ Ice	0	Motor Vehicle	0.05
Conductor Sag	0	In-house Tree	0	Public Cut Tree	0
Overload	0.4	Lightning	2.9	Public Other	0
Decay/Age Equip	0	Wind	0	Other	11.7
Corrosion/Abrasion	0	Small Animal	0.7	Cause Unknown	2.6
Tree Growth	3.4	Animal	0		

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

65.5

10. REPORTING YEAR (SAIDI)

24.8

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.47

12. REPORTING YEAR (SAIFI)

0.56

13. CORRECTIVE ACTION PLAN

TREE FAILURE WAS THE HIGHEST CAUSE. THIS CIRCUIT IS DUE TO BE TRIMMED IN 2017

REPEAT INFORMATION FOR EACH CIRCUIT EXCEEDING ITS 5 YEAR AVERAGE

KENTUCKY PUBLIC SERVICE COMMISSION

FOR SAIDI AND/OR SAIFI

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)

HILLSBORO, KY 111, FLEMING COUNTY

3. CIRCUIT NAME AND NUMBER

POPLAR PLAINS - OCR 134

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

POPLAR PLAINS, KY 111

5. TOTAL CIRCUIT LENGTH (MILES)

71.3

6. CUSTOMER COUNT FOR THIS CIRCUIT

433

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	9.3	Tree Failure	0	Cust Caused	0.1
Installation Fault	0	Tree w/ Ice	0	Motor Vehicle	0
Conductor Sag	0	In-house Tree	0	Public Cut Tree	0
Overload	7	Lightning	40.6	Public Other	0
Decay/Age Equip	0	Wind	0	Other	0
Corrosion/Abrasion	0	Small Animal	1.1	Cause Unknown	41.9
Tree Growth	0	Animal	0		

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

25.2

10. REPORTING YEAR (SAIDI)

28.6

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.26

12. REPORTING YEAR (SAIFI)

0.57

13. CORRECTIVE ACTION PLAN

LARGE UNKNOWN OUTAGE DURING A STORM. WAS LIKELY LIGHTNING RELATED. WILL MONITOR FOR FUTURE UNKNOWNNS.

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

SHARKEY

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

KY 801, INDUSTRIAL PARK, ROWAN COUNTY

3. CIRCUIT NAME AND NUMBER

SHARKEY - OCR 134

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

SHARKEY, KY 801, KY 158

5. TOTAL CIRCUIT LENGTH (MILES)

53.9

6. CUSTOMER COUNT FOR THIS CIRCUIT

864

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	62.4	Tree Failure	14	Cust Caused	0.3
Installation Fault	0	Tree w/ Ice	14.1	Motor Vehicle	0.6
Conductor Sag	0	In-house Tree	0	Public Cut Tree	0
Overload	0	Lightning	2.5	Public Other	0
Decay/Age Equip	0	Wind	0	Other	0
Corrosion/Abrasion	0	Small Animal	3	Cause Unknown	2.9
Tree Growth	0	Animal	0		

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

34.4

10. REPORTING YEAR (SAIDI)

46.6

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.43

12. REPORTING YEAR (SAIFI)

0.745

13. CORRECTIVE ACTION PLAN

**LARGE OUTAGE ON THE ENTIRE CIRCUIT DUE TO INSULATOR FAILURE.
FUTURE PROBLEM WILL BE MONITORED**

**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
MURPHYSVILLE
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
MURPHYSVILLE, MASON COUNTY
3. CIRCUIT NAME AND NUMBER
STRODES RUN - OCR 144
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
STRODES RUN, MASON COUNTY, TO KY 11
5. TOTAL CIRCUIT LENGTH (MILES)
29.7
6. CUSTOMER COUNT FOR THIS CIRCUIT
108
- 7.. DATE OF LAST CIRCUIT TRIM (VM)
2016
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Equipment Failure	86.4	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	2.9	Public Other	0
Decay/Age Equip	0	Wind	0	Other	0
Corrosion/Abrasion	0	Small Animal	4.3	Cause Unknown	4.8
Tree Growth	0	Animal	0		

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
2.76
10. REPORTING YEAR (SAIDI)
3.99
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.05
12. REPORTING YEAR (SAIFI)
0.04
13. CORRECTIVE ACTION PLAN

HAD A JUMPER BURNT OUT THAT FELL IN INTO THE EQUIPMENT FAILURE CATEGORY. THIS WILL BE MONITORED DURING FUTURE INSPECTIONS.

REPEAT INFORMATION FOR EACH CIRCUIT EXCEEDING ITS 5 YEAR AVERAGE

KENTUCKY PUBLIC SERVICE COMMISSION

FOR SAIDI AND/OR SAIFI

(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)

FLEMINGSBURG, KY 11, FLEMING COUNTY

3. CIRCUIT NAME AND NUMBER

TILTON - OCR 104

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

TILTON, KY 11

5. TOTAL CIRCUIT LENGTH (MILES)

81.3

6. CUSTOMER COUNT FOR THIS CIRCUIT

616

7.. DATE OF LAST CIRCUIT TRIM (VM)

2015

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

Equipment Failure	3.2	Tree Failure	0	Cust Caused	0.2
Installation Fault	0	Tree w/ Ice	0	Motor Vehicle	0.2
Conductor Sag	0	In-house Tree	0	Public Cut Tree	0
Overload	0	Lightning	91.3	Public Other	0
Decay/Age Equip	2.8	Wind	0	Other	0
Corrosion/Abrasion	0	Small Animal	0.2	Cause Unknown	1.5
Tree Growth	0	Animal	0		

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

25.3

10. REPORTING YEAR (SAIDI)

37.5

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.21

12. REPORTING YEAR (SAIFI)

0.19

13. CORRECTIVE ACTION PLAN

**LIGHTNING WAS THE MOST CONTRIBUTING FACTOR FOR THIS CIRCUIT.
LIGHTNING AND OVER VOLTAGE PROTECTION 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

CHARTERS

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

KY 9, CHARTER, LEWIS COUNTY

3. CIRCUIT NAME AND NUMBER

VANCEBURG - OCR 134

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

VANCEBURG, KY 9, KY 8

5. TOTAL CIRCUIT LENGTH (MILES)

169.2

6. CUSTOMER COUNT FOR THIS CIRCUIT

1,364

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	37.7	Tree Failure	12.6	Cust Caused	0
Installation Fault	18.5	Tree w/ Ice	0	Motor Vehicle	0
Conductor Sag	0	In-house Tree	0	Public Cut Tree	2.2
Overload	0	Lightning	24.5	Public Other	0
Decay/Age Equip	0.6	Wind	0	Other	0
Corrosion/Abrasion	0	Small Animal	0.3	Cause Unknown	2.2
Tree Growth	0	Animal	0		

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

132.5

10. REPORTING YEAR (SAIDI)

206.5

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.82

12. REPORTING YEAR (SAIFI)

1.45

13. CORRECTIVE ACTION PLAN

THIS CIRCUIT HAD A WIDE VARIETY OF CAUSES. IT IS A LONG CIRCUIT. WILL BE MONITORED DURING FUTURE INSPECTIONS.

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.

2016 - RECTORVILL (PLUMVILLE), CHARTERS (SALT LICK, VANCBURG, HOLLY)

Trimming Cycle - 6 years

Spaying Cycle - 3 years

Hot Spotting - 2 years during line inspections.

SECTION 7: UTILITY COMMENTS