



FLEMING-MASON ENERGY
COOPERATIVE, INC.

P.O. BOX 328 • FLEMINGSBURG, KENTUCKY 41041 • (606) 845-2661 • FAX (606) 845-1008

March 29, 2018

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

RECEIVED

APR 02 2018

PUBLIC SERVICE
COMMISSION

Dear Mr. DeRouen:

Enclosed is Fleming Mason Energy's Reliability Report for the calendar year of 2017 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,

A handwritten signature in black ink that reads "Brandon Hunt".

Brandon Hunt, P.E.
Engineering Manager

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

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	2017
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SECTION 3: MAJOR EVENT DAYS (MED)

T_{MED}	8.88
FIRST DATE USED TO DETERMINE T_{MED}	1/1/2012
LAST DATE USED TO DETERMINE T_{MED}	12/31/2017
NUMBER OF MED IN REPORT YEAR	5

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	24,366	TOTAL CIRCUITS	42
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Excluding MED

5 YEAR AVERAGE		REPORTING YEAR	
SAIDI	140.78	SAIDI	95.62
SAIFI	1.09	SAIFI	0.88

Including MED

5 YEAR AVERAGE		REPORTING YEAR	
SAIDI	283.6	SAIDI	275.6
SAIFI	1.5	SAIFI	1.36

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
HILDA
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
KY 32, ROWAN COUNTY, MOREHEAD
3. CIRCUIT NAME AND NUMBER
CRANSTON OCR 104
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
CRANSTON RD, MORHEAD
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	1.72	Tree Failure	29.69	Cust Caused	1.55
Installation Fault	0	Tree w/ Ice	0	Motor Vehicle	0.071
Conductor Sag	0	In-house Tree	0	Public Cut Tree	0
Overload	0	Lightning	0.057	Public Other	0
Decay/Age Equip	0	Wind	0	Other	0
Corrosion/Abrasion	0	Small Animal	0.299	Cause Unknown	2.77
Tree Growth	0	Animal	0		

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
42.09
10. REPORTING YEAR (SAIDI)
36.21
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.209
12. REPORTING YEAR (SAIFI)
0.288
13. CORRECTIVE ACTION PLAN

Tree failure highest of causes. Due to be cut next year.

**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
HOSPITAL CKT - OCR124
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
FLEMINGSBURG, KY 32 BYPASS, FLEMINGSBURG
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	0	Tree Fallure	0.006	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	1.94	Public Other	0
Decay/Age Equip	0	Wind	0	Other	0
Corrosion/Abrasion	0	Small Animal	1.49	Cause Unknown	0.048
Tree Growth	0	Animal	0		

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
1.59
10. REPORTING YEAR (SAIDI)
3.48
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.0358
12. REPORTING YEAR (SAIFI)
0.038
13. CORRECTIVE ACTION PLAN

SHORT CIRCUIT WITH VERY FEW OUTAGES. LIGHTING WAS THE LARGEST 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
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
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	0.137	Tree Failure	8.19	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	0.14	Public Other	0
Decay/Age Equip	0	Wind	0	Other	0
Corrosion/Abrasion	0	Small Animal	1.86	Cause Unknown	0.223
Tree Growth	0	Animal	0		

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
7.2
10. REPORTING YEAR (SAIDI)
10.55
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.091
12. REPORTING YEAR (SAIFI)
0.14
13. CORRECTIVE ACTION PLAN

TREE FAILURE WAS LARGEST CAUSE. CIRCUIT WILL BE CUT IN 2018

**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
PLUMERS LANDING
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
FLEMING, KY 32, PLUMMERS LANDING
3. CIRCUIT NAME AND NUMBER
MUSES MILL - OCR 124
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
MUSES MILL, KY 1013, MUSES MILL
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	1.23	Tree Failure	39.88	Cust Caused	0.003
Installation Fault	0	Tree w/ Ice	0	Motor Vehicle	36.08
Conductor Sag	0	In-house Tree	0	Public Cut Tree	0
Overload	0.07	Lightning	35.43	Public Other	0
Decay/Age Equip	0	Wind	0	Other	0.11
Corrosion/Abrasion	0	Small Animal	0	Cause Unknown	4.405
Tree Growth	0	Animal	0		

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
62.14
10. REPORTING YEAR (SAIDI)
118.2
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.56
12. REPORTING YEAR (SAIFI)
1.37
13. CORRECTIVE ACTION PLAN

THREE MAIN CAUSES, TREE, LIGHTING, AND VEHICLE. CIRCUIT IS DUE TO BE CUT IN 2019.

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, KILBRETH LANE
3. CIRCUIT NAME AND NUMBER
PETERSVILLE - OCR 134
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
PETERSVILLE, KY 344
5. TOTAL CIRCUIT LENGTH (MILES)
32.8
6. CUSTOMER COUNT FOR THIS CIRCUIT
166
- 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	11.8	Tree Failure	6.3	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	14.95	Public Other	0
Decay/Age Equip	0	Wind	0	Other	0
Corrosion/Abrasion	0	Small Animal	0.38	Cause Unknown	0.41
Tree Growth	0	Animal	0		

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
18.5
10. REPORTING YEAR (SAIDI)
33.83
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.11
12. REPORTING YEAR (SAIFI)
0.185
13. CORRECTIVE ACTION PLAN

LIGHTNING WAS THE LARGEST CAUSE. INVESTIGATE THE PLACEMENT OF ARRESTERS.

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)
OWL HOLLOW RD, RECTORVILLE
3. CIRCUIT NAME AND NUMBER
PLUMVILLE - OCR 134
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
PLUMVILLE, AA HWY/KY 10
5. TOTAL CIRCUIT LENGTH (MILES)
76.2
6. CUSTOMER COUNT FOR THIS CIRCUIT
924
- 7.. DATE OF LAST CIRCUIT TRIM (VM)
2017
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Equipment Failure	67.6	Tree Failure	5.1	Cust Caused	0.179
Installation Fault	0	Tree w/ Ice	0	Motor Vehicle	0.159
Conductor Sag	0	In-house Tree	0.11	Public Cut Tree	0
Overload	0	Lightning	0.35	Public Other	0
Decay/Age Equip	0	Wind	0	Other	0
Corrosion/Abrasion	0	Small Animal	0.22	Cause Unknown	0.659
Tree Growth	0	Animal	0		

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
39.64
10. REPORTING YEAR (SAIDI)
74.38
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.366
12. REPORTING YEAR (SAIFI)
0.508
13. CORRECTIVE ACTION PLAN

INSULATOR FAILURE WAS THE LARGEST 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
HILLSBORO
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
FLEMING, KY 111, HILLSBORO
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	2.19	Tree Failure	0.065	Cust Caused	0.501
Installation Fault	0	Tree w/ Ice	0	Motor Vehicle	0.39
Conductor Sag	0	In-house Tree	0	Public Cut Tree	0
Overload	0.27	Lightning	16.9	Public Other	0
Decay/Age Equip	0.047	Wind	0	Other	0
Corrosion/Abraslon	0	Small Animal	0.3	Cause Unknown	0.12
Tree Growth	0	Animal	0.056		

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
27.01
10. REPORTING YEAR (SAIDI)
20.9
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.37
12. REPORTING YEAR (SAIFI)
0.38
13. CORRECTIVE ACTION PLAN

LIGHTNING WAS THE LARGEST CAUSE. CIRCUIT WAS ONLY NARROWLY OVER 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
HILLSBORO
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
FLEMING, KY 111, HILLSBORO
3. CIRCUIT NAME AND NUMBER
RINGOS - OCR 144
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
RINGO MILLS, KY 158
5. TOTAL CIRCUIT LENGTH (MILES)
34.8
6. CUSTOMER COUNT FOR THIS CIRCUIT
258
- 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	11.6	Tree Failure	0.267	Cust Caused	0.088
Installation Fault	0	Tree w/ Ice	0	Motor Vehicle	0.06
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	1.78	Cause Unknown	1.23
Tree Growth	0	Animal	0		

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
21.1
10. REPORTING YEAR (SAIDI)
15.1
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.113
12. REPORTING YEAR (SAIFI)
0.179
13. CORRECTIVE ACTION PLAN

MATERIAL FAILURE. BAD AUTO TRANSFORMER. WILL INVESTIGATE A VOLTAGE CONVERSION.

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, SHERBURNE
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	8.52	Tree Failure	41.9	Cust Caused	0.154
Installation Fault	0	Tree w/ Ice	0	Motor Vehicle	0.075
Conductor Sag	0	In-house Tree	0	Public Cut Tree	0
Overload	0	Lightning	0.18	Public Other	0
Decay/Age Equip	0.18	Wind	0	Other	0
Corrosion/Abrasion	0	Small Animal	0.55	Cause Unknown	0.55
Tree Growth	0	Animal	0		
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
62.6
10. REPORTING YEAR (SAIDI)
52.2
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.469
12. REPORTING YEAR (SAIFI)
0.473
13. CORRECTIVE ACTION PLAN

TREE FAILURE WAS LARGEST CAUSE. CIRCUIT DUE TO BE CUT 2019

**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	47.7	Tree Fallure	5.83	Cust Caused	54.4
Installation Fault	0	Tree w/ Ice	0	Motor Vehicle	2.32
Conductor Sag	0	In-house Tree	0	Public Cut Tree	0
Overload	0	Lightning	35.62	Public Other	6.86
Decay/Age Equip	0	Wind	25.3	Other	0
Corrosion/Abraslon	0	Small Animal	0.49	Cause Unknown	4.73
Tree Growth	0.166	Animal	0.044		

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
83.1
10. REPORTING YEAR (SAIDI)
183.5
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.63
12. REPORTING YEAR (SAIFI)
1.9
13. CORRECTIVE ACTION PLAN

CUSTOMER CAUSED WAS LARGEST OUTAGE. MEMBER HAD A BULLDOZER TAKE OUT ENTIRE CIRCUIT.

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)
MASON, MURPHYSVILLE RD, MURPHYSVILLE
3. CIRCUIT NAME AND NUMBER
STRODES RUN - OCR 144
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
MAYSLICK, PARKER LANE
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	0	Tree Failure	0	Cust Caused	0.17
Installation Fault	0	Tree w/ Ice	0	Motor Vehicle	0
Conductor Sag	0	In-house Tree	0	Public Cut Tree	0
Overload	0	Lightning	0.65	Public Other	0
Decay/Age Equip	0	Wind	0	Other	0
Corrosion/Abrasion	0	Small Animal	2.11	Cause Unknown	0.164
Tree Growth	0	Animal	0.009		

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
3.045
10. REPORTING YEAR (SAIDI)
3.12
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.053
12. REPORTING YEAR (SAIFI)
0.048
13. CORRECTIVE ACTION PLAN

NOT A LOT OF OUTAGES ON THIS CIRCUIT. ANIMAL WAS 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
FLEMINGSBURG
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
FLEMING, ENERGY RD, FLEMINGSBURG
3. CIRCUIT NAME AND NUMBER
TILTON - OCR 104
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
TILTON, KY 11, TILTON
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	7.72	Tree Failure	0.028	Cust Caused	0.155
Installation Fault	0	Tree w/ Ice	0	Motor Vehicle	3.6
Conductor Sag	0	In-house Tree	0	Public Cut Tree	0
Overload	0	Lightning	25.96	Public Other	0
Decay/Age Equip	0	Wind	0	Other	0
Corrosion/Abrasion	0	Small Animal	1.48	Cause Unknown	0.469
Tree Growth	0	Animal	0		

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
30.4
10. REPORTING YEAR (SAIDI)
39.5
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.22
12. REPORTING YEAR (SAIFI)
0.18
13. CORRECTIVE ACTION PLAN

LIGHTING WAS LARGEST CAUSE. WILL INVESTIGATE LIGHTNING PROTECTION.

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
UNDERBUILD - OCR 144
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
WALLINGFOR, KY 59, WALLINGFORD
5. TOTAL CIRCUIT LENGTH (MILES)
67.6
6. CUSTOMER COUNT FOR THIS CIRCUIT
731
- 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	3.07	Tree Failure	0	Cust Caused	0.071
Installation Fault	0	Tree w/ Ice	0	Motor Vehicle	11.5
Conductor Sag	0	In-house Tree	0	Public Cut Tree	0
Overload	0	Lightning	0.87	Public Other	0
Decay/Age Equip	0	Wind	0	Other	0
Corrosion/Abrasion	0	Small Animal	0.33	Cause Unknown	1.72
Tree Growth	0.27	Animal	0.22		

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
8.55
10. REPORTING YEAR (SAIDI)
18.11
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.104
12. REPORTING YEAR (SAIFI)
0.45
13. CORRECTIVE ACTION PLAN

MOTOR VEHICLE WAS LARGEST CAUSE. WILL INVESTIGATE.

**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)
LEWIS, AA HWY, CHARTERS
3. CIRCUIT NAME AND NUMBER
VANCEBURG - OCR134
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
VANCEBURG, KY 9/KY 8, VANCEBURG
5. TOTAL CIRCUIT LENGTH (MILES)
169.2
6. CUSTOMER COUNT FOR THIS CIRCUIT
1364
- 7.. DATE OF LAST CIRCUIT TRIM (VM)
2017
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Equipment Failure	25.95	Tree Failure	6.75	Cust Caused	0.705
Installation Fault	0	Tree w/ Ice	0	Motor Vehicle	0.021
Conductor Sag	0	In-house Tree	7.48	Public Cut Tree	0
Overload	0	Lightning	0.912	Public Other	0
Decay/Age Equip	83.3	Wind	0	Other	0
Corrosion/Abrasion	0	Small Animal	1.04	Cause Unknown	2.06
Tree Growth	0.06	Animal	0		

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
137.1
10. REPORTING YEAR (SAIDI)
129.3
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.913
12. REPORTING YEAR (SAIFI)
1.1
13. CORRECTIVE ACTION PLAN

CIRCUIT HAD A COUPLE LARGE OUTAGES WITH INSULATORS. WILL INVESTIGATE.

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.

2018 - CHARTERS (HERRON HILL), SHARKEY SUB, OAK RIDGE SUB, HILDA (INTERCHANGE, PINE HILLS, BLUE STONE)

Trimming Cycle - 6 years

Spaying Cycle - 3 years

SECTION 7: UTILITY COMMENTS

KENTUCKY PUBLIC SERVICE COMMISSION