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April 8, 2021

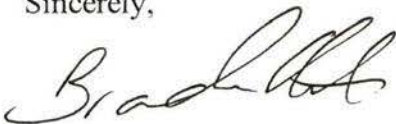
Executive Director
Public Service Commission
P.O. Box 615
Frankfort, KY 40602-0615

Dear Executive Director:

Enclosed is Fleming Mason Energy's Reliability Report for the calendar year of 2019 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 and Operations 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 2020

SECTION 3: MAJOR EVENT DAYS (MED)

T_{MED}	12.21
FIRST DATE USED TO DETERMINE T_{MED}	1/1/2015
LAST DATE USED TO DETERMINE T_{MED}	12/31/2019
NUMBER OF MED IN REPORT YEAR	6

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 25,163 TOTAL CIRCUITS 45

Excluding MED

	5 YEAR AVERAGE		REPORTING YEAR
SAIDI	<u>153.74</u>	SAIDI	<u>123.17</u>
SAIFI	<u>1.18</u>	SAIFI	<u>0.807</u>

Including MED

	5 YEAR AVERAGE		REPORTING YEAR
SAIDI	<u>297.41</u>	SAIDI	<u>320.68</u>
SAIFI	<u>1.49</u>	SAIFI	<u>1.327</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
SHARKEY
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
KY 801, SHARKEY
3. CIRCUIT NAME AND NUMBER
801/FARMERS OCR 224
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
KY 801, FARMERS
5. TOTAL CIRCUIT LENGTH (MILES)
46.1
6. CUSTOMER COUNT FOR THIS CIRCUIT
804
- 7.. DATE OF LAST CIRCUIT TRIM (VM)
2018
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Equipment Failure	0.27	Tree Failure	0.12	Animal	0
Installation Fault	0	Tree w/ Ice	0	Cust Caused	0
Conductor Sag	0	In-house Tree	0	Motor Vehicle	0
Overload	0	Tree out of ROW	13.68	Public Cut Tree	0
Decay/Age Equip	14.8	Lightning	2.6	Public Other	0
Corrosion/Abrasion	0	Wind	39.37	Other	0
Tree Growth	9.94	Small Animal	0.71	Cause Unknown	14.19
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
40.01
10. REPORTING YEAR (SAIDI)
22.59
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.302
12. REPORTING YEAR (SAIFI)
0.7725
13. CORRECTIVE ACTION PLAN

Largest cause was wind. Element out of our control. Will investigate aged equipment.

**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
3. CIRCUIT NAME AND NUMBER
BLUEBANK OCR114
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
KY 32 - PLUMMERS LANDING TO FLEMINGSBURG
5. TOTAL CIRCUIT LENGTH (MILES)
48
6. CUSTOMER COUNT FOR THIS CIRCUIT
508
- 7.. DATE OF LAST CIRCUIT TRIM (VM)
2020
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Equipment Failure	0	Tree Failure	5.55	Animal	0
Installation Fault	0	Tree w/ Ice	0	Cust Caused	0
Conductor Sag	0	In-house Tree	0	Motor Vehicle	39.02
Overload	0	Tree out of ROW	23.82	Public Cut Tree	0
Decay/Age Equip	14.44	Lightning	1.69	Public Other	0
Corrosion/Abrasion	0	Wind	12.45	Other	0
Tree Growth	0	Small Animal	2.81	Cause Unknown	0.23
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
50.06
10. REPORTING YEAR (SAIDI)
31.41
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.317
12. REPORTING YEAR (SAIFI)
0.779
13. CORRECTIVE ACTION PLAN

Mortor vehicle was 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
OAK RIDGE
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
LEWIS, OAK RIDGE RD
3. CIRCUIT NAME AND NUMBER
BURTONVILLE OCR 224
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
BURTONVILLE, SALT LICK RD
5. TOTAL CIRCUIT LENGTH (MILES)
56.9
6. CUSTOMER COUNT FOR THIS CIRCUIT
336
- 7.. DATE OF LAST CIRCUIT TRIM (VM)
2018
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Equipment Failure	0.34	Tree Failure	0.1	Animal	0
Installation Fault	0	Tree w/ Ice	0	Cust Caused	0
Conductor Sag	0	In-house Tree	0	Motor Vehicle	0
Overload	0	Tree out of ROW	0	Public Cut Tree	0
Decay/Age Equip	0	Lightning	7.06	Public Other	0
Corrosion/Abrasion	0	Wind	0.22	Other	57.62
Tree w/ wind	33.65	Small Animal	0.32	Cause Unknown	0.7
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
35.25
10. REPORTING YEAR (SAIDI)
49.19
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
1.3
12. REPORTING YEAR (SAIFI)
0.251
13. CORRECTIVE ACTION PLAN

Trees with wind. Ensure cycle busting trees are getting attention as well as dead/leaning trees along ROW

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)

KY 32, MOREHEAD

3. CIRCUIT NAME AND NUMBER

CRANSTON, OC104

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

CRANSTON RD. MOREHEAD

5. TOTAL CIRCUIT LENGTH (MILES)

63.9

6. CUSTOMER COUNT FOR THIS CIRCUIT

789

7.. DATE OF LAST CIRCUIT TRIM (VM)

2019

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

Equipment Failure	0	Tree Failure	18.23	Animal	0
Installation Fault	0	Tree w/ Ice	0	Cust Caused	48.48
Conductor Sag	0	In-house Tree	0	Motor Vehicle	0.6
Overload	0	Tree out of ROW	0	Public Cut Tree	0
Decay/Age Equip	1.11	Lightning	0.22	Public Other	0
Corrosion/Abrasion	0	Wind	0	Other	0.72
Tree W/ wind	22.03	Small Animal	0.15	Cause Unknown	1.93

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

29.06

10. REPORTING YEAR (SAIDI)

69.62

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

1.38

12. REPORTING YEAR (SAIFI)

0.661

13. CORRECTIVE ACTION PLAN

CUSTOMER CAUSED OUTAGE WAS HIGHEST CAUSE. TREE FAULURE WITH WIND.

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
DOYLE PIKE OCR 244
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
DOYLE PIKE, ROBERTSON COUNTY
5. TOTAL CIRCUIT LENGTH (MILES)
49.5
6. CUSTOMER COUNT FOR THIS CIRCUIT
279
- 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	17.62	Animal	0
Installation Fault	0	Tree w/ Ice	0	Cust Caused	0
Conductor Sag	0	In-house Tree	0	Motor Vehicle	0
Overload	0	Tree out of ROW	0	Public Cut Tree	0
Decay/Age Equip	0	Lightning	5.52	Public Other	0
Corrosion/Abrasion	0	Wind	0.16	Other	0.36
Tree Growth	0	Small Animal	0.57	Cause Unknown	67.74

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
12.98
10. REPORTING YEAR (SAIDI)
19.62
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.6615
12. REPORTING YEAR (SAIFI)
0.253
13. CORRECTIVE ACTION PLAN

UNKNOWN CAUSE. MONITOR CLOSER

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, ROBERTSON COUNTY, PIQUA
3. CIRCUIT NAME AND NUMBER
FAIRVIEW OCR 224
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
KY 165, TOWARDS FLEMINGSBURG
5. TOTAL CIRCUIT LENGTH (MILES)
45.2
6. CUSTOMER COUNT FOR THIS CIRCUIT
449
- 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	0.23	Tree Failure	0	Animal	0
Installation Fault	0	Tree w/ Ice	0	Cust Caused	0
Conductor Sag	0	In-house Tree	0	Motor Vehicle	7.95
Overload	0	Tree out of ROW	0	Public Cut Tree	0
Decay/Age Equip	0	Lightning	27.94	Public Other	0
Corrosion/Abrasion	0	Wind	50.68	Other	0
Tree Growth	1.24	Small Animal	9	Cause Unknown	2.97
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
9.06
10. REPORTING YEAR (SAIDI)
29.91
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.0977
12. REPORTING YEAR (SAIFI)
0.156
13. CORRECTIVE ACTION PLAN

WIND STORMS WERE 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
PEASTICKS
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
BATH COUNTY, PEASTICKS RD
3. CIRCUIT NAME AND NUMBER
FORDGE MILL OCR214
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
FORDGE MILL, BATH COUNTY
5. TOTAL CIRCUIT LENGTH (MILES)
40.8
6. CUSTOMER COUNT FOR THIS CIRCUIT
406
- 7.. DATE OF LAST CIRCUIT TRIM (VM)
2020
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Equipment Failure	0.34	Tree Failure	0	Animal	0
Installation Fault	0	Tree w/ Ice	0	Cust Caused	5.22
Conductor Sag	0	Tree w/ Wind	0	Motor Vehicle	9.39
Overload	0	Tree out of ROW	0	Public Cut Tree	0
Decay/Age Equip	53.62	Lightning	19.12	Public Other	0
Corrosion/Abrasion	0	Wind	0	Other	0
Tree Growth	10.86	Small Animal	1.45	Cause Unknown	0
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
14.96
10. REPORTING YEAR (SAIDI)
19.2
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.431
12. REPORTING YEAR (SAIFI)
0.214
13. CORRECTIVE ACTION PLAN

LARGEST OUTAGE ON LINE WAS A LIGHTNING ARRESTER FAILURE.

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)
KY 111, FLEMING COUNTY
3. CIRCUIT NAME AND NUMBER
GRANGE CITY
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
KY 111, FLEMING COUNTY AND INTO BATH COUNTY
5. TOTAL CIRCUIT LENGTH (MILES)
85.5
6. CUSTOMER COUNT FOR THIS CIRCUIT
504
- 7.. DATE OF LAST CIRCUIT TRIM (VM)
2019
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Equipment Failure	15.36	Tree Failure	3.78	Animal	0
Installation Fault	0.85	Tree w/ Ice	0	Cust Caused	0.05
Conductor Sag	0	In-house Tree	0	Motor Vehicle	0
Overload	0	Tree out of ROW	4.57	Public Cut Tree	0
Decay/Age Equip	0	Lightning	5.86	Public Other	0
Corrosion/Abrasion	0	Wind	29.98	Other	0
Tree Growth	0.7	Small Animal	0.87	Cause Unknown	37.98
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
18.87
10. REPORTING YEAR (SAIDI)
41.39
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.565
12. REPORTING YEAR (SAIFI)
0.4125
13. CORRECTIVE ACTION PLAN

UNKNOWN OUTAGE WAS 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

BIG WOODS

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

KY 32, ROWAN COUNTY

3. CIRCUIT NAME AND NUMBER

HICKORY POINTE

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

KY 32, ROWAN COUNTY

5. TOTAL CIRCUIT LENGTH (MILES)

41.7

6. CUSTOMER COUNT FOR THIS CIRCUIT

916

7.. DATE OF LAST CIRCUIT TRIM (VM)

2018

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

Equipment Failure	0.22	Tree Failure	9.56	Animal	0.1
Installation Fault	0	Tree w/ Ice	0	Cust Caused	0.67
Conductor Sag	0	In-house Tree	0	Motor Vehicle	0
Overload	0	Tree out of ROW	0	Public Cut Tree	64.39
Decay/Age Equip	0	Lightning	0.21	Public Other	0.56
Corrosion/Abrasion	0	Wind	0	Other	0
Tree w/ Wind	15.78	Small Animal	0.89	Cause Unknown	7.63

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

11.61

10. REPORTING YEAR (SAIDI)

48.94

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.9975

12. REPORTING YEAR (SAIFI)

0.342

13. CORRECTIVE ACTION PLAN

MEMBER CUT TREE ON ONTO LINE.

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
BIG WOODS
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
KY 32, ROWAN COUNTY
3. CIRCUIT NAME AND NUMBER
KY 158
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
KY 158, ROWAN COUNTY
5. TOTAL CIRCUIT LENGTH (MILES)
21.5
6. CUSTOMER COUNT FOR THIS CIRCUIT
340
7. DATE OF LAST CIRCUIT TRIM (VM)
2018
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Equipment Failure	0	Tree Failure	0.4	Animal	0
Installation Fault	0	Tree w/ Ice	0	Cust Caused	0
Conductor Sag	0	In-house Tree	0	Motor Vehicle	95.89
Overload	0	Tree out of ROW	0	Public Cut Tree	0
Decay/Age Equip	0	Lightning	0.48	Public Other	0
Corrosion/Abrasion	0	Wind	0	Other	0
Tree w/ wind	0	Small Animal	0	Cause Unknown	2.88

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
0.7
10. REPORTING YEAR (SAIDI)
14.94
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.0561
12. REPORTING YEAR (SAIFI)
0.0468
13. CORRECTIVE ACTION PLAN

MOTOR VEHICLE ACCIDENT.

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)
AA HWY / CLYDE BARBER PKWY, MASON COUNTY
3. CIRCUIT NAME AND NUMBER
MORANSBURG
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
DOVER, MASON COUNTY
5. TOTAL CIRCUIT LENGTH (MILES)
90.7
6. CUSTOMER COUNT FOR THIS CIRCUIT
626
- 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	2.09	Tree Failure	1.72	Animal	0.25
Installation Fault	0	Tree w/ Ice	0	Cust Caused	0
Conductor Sag	0	In-house Tree	0	Motor Vehicle	0
Overload	0	Tree out of ROW	0	Public Cut Tree	0
Decay/Age Equip	0.16	Lightning	20.4	Public Other	0.1
Tree Growth	27.22	Wind	21.92	Other	0.04
Tree w/ wind	5.22	Small Animal	13.16	Cause Unknown	2.3
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
194.43
10. REPORTING YEAR (SAIDI)
219.31
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
4.91
12. REPORTING YEAR (SAIFI)
0.73
13. CORRECTIVE ACTION PLAN

TREE GROWTH IS LARGEST CAUSE. CKT IS DUE TO BE CUT IN 2021

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, PLUMERS LANDING
3. CIRCUIT NAME AND NUMBER
MUSES MILL OCR 124
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
MUSES MILL, KY 1013
5. TOTAL CIRCUIT LENGTH (MILES)
70.7
6. CUSTOMER COUNT FOR THIS CIRCUIT
484
- 7.. DATE OF LAST CIRCUIT TRIM (VM)
2019
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Equipment Failure	0.05	Tree Failure	12.84	Animal	0.05
Installation Fault	0	Tree w/ wind	80.27	Cust Caused	0.32
Conductor Sag	0	In-house Tree	0	Motor Vehicle	0
Overload	0	Tree out of ROW	3.8	Public Cut Tree	0
Decay/Age Equip	1.07	Lightning	0.47	Public Other	0
Corrosion/Abrasion	0	Wind	0	Other	0
Tree Growth	0.13	Small Animal	0.22	Cause Unknown	0.78

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
70.9
10. REPORTING YEAR (SAIDI)
74.23
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.82
12. REPORTING YEAR (SAIFI)
0.516
13. CORRECTIVE ACTION PLAN

TREES WITH WIND.

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
OWINGSVILLE-SHAPRSBURG
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
KY 11, BATH COUNTY
5. TOTAL CIRCUIT LENGTH (MILES)
149.3
6. CUSTOMER COUNT FOR THIS CIRCUIT
948
- 7.. DATE OF LAST CIRCUIT TRIM (VM)
2020
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Equipment Failure	0.31	Tree Failure	6.67	Animal	0.27
Installation Fault	1.11	Tree w/ wind	44.57	Cust Caused	0
Conductor Sag	0	In-house Tree	0	Motor Vehicle	0.2
Overload	0	Tree out of ROW	0	Public Cut Tree	0
Decay/Age Equip	0.12	Lightning	23.94	Public Other	0
Corrosion/Abrasion	0	Wind	0	Other	0
Tree Growth	5.07	Small Animal	2.25	Cause Unknown	14.99
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
70.95
10. REPORTING YEAR (SAIDI)
74.23
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
1.85
12. REPORTING YEAR (SAIFI)
1.73
13. CORRECTIVE ACTION PLAN

LARGE CIRCUIT. WEATHER RELATED, TREES WITH WIND AND LIGHTNING, WAS THE LARGEST CAUSES

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, MASON COUNTY
3. CIRCUIT NAME AND NUMBER
OWL HOLLOW
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
OWL HOLLOW RD, MASON COUNTY
5. TOTAL CIRCUIT LENGTH (MILES)
53.6
6. CUSTOMER COUNT FOR THIS CIRCUIT
305
- 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	1.28	Animal	0
Installation Fault	0	Tree w/ wind	19.82	Cust Caused	0
Conductor Sag	0	In-house Tree	0	Motor Vehicle	0
Overload	0	Tree out of ROW	76.17	Public Cut Tree	0
Decay/Age Equip	0	Lightning	0	Public Other	0
Corrosion/Abrasion	0	Wind	0.08	Other	0
Tree Growth	0	Small Animal	0.23	Cause Unknown	2.43
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
10.86
10. REPORTING YEAR (SAIDI)
36.11
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
1.39
12. REPORTING YEAR (SAIFI)
0.167
13. CORRECTIVE ACTION PLAN

One large tree out of ROW outage. ROW has stayed on schedule.

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, ROBERTSON COUNTY
3. CIRCUIT NAME AND NUMBER
PIQUA
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
KY 165, PIQUA, ROBERTSON COUNTY
5. TOTAL CIRCUIT LENGTH (MILES)
32.3
6. CUSTOMER COUNT FOR THIS CIRCUIT
176
- 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	Animal	0
Installation Fault	0	Tree w/ wind	57.07	Cust Caused	0
Conductor Sag	0	In-house Tree	0	Motor Vehicle	0
Overload	0	Tree out of ROW	0	Public Cut Tree	0
Decay/Age Equip	0	Lightning	20.26	Public Other	0
Corrosion/Abrasion	0	Wind	0	Other	0
Tree w/ wind	0	Small Animal	7.06	Cause Unknown	15.62

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
2.63
10. REPORTING YEAR (SAIDI)
33.01
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.29
12. REPORTING YEAR (SAIFI)
0.133
13. CORRECTIVE ACTION PLAN

Trees with wind is 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
MURPHYSVILLE
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
MURPHYSVILLE, MASON COUNTY
3. CIRCUIT NAME AND NUMBER
STONEWALL
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
BROOKSVILLE, MASON/BRACKEN COUNTY
5. TOTAL CIRCUIT LENGTH (MILES)
212.2
6. CUSTOMER COUNT FOR THIS CIRCUIT
1463
- 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	26.27	Tree Failure	0.13	Animal	0
Installation Fault	0	Tree w/ wind	0.36	Cust Caused	0
Conductor Sag	0	In-house Tree	0	Motor Vehicle	0.42
Overload	0	Tree out of ROW	0.18	Public Cut Tree	0
Decay/Age Equip	33.14	Lightning	1.23	Public Other	0
Corrosion/Abrasion	0	Wind	7.13	Other	0.19
Tree Growth	0	Small Animal	4.83	Cause Unknown	25.87
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
100.46
10. REPORTING YEAR (SAIDI)
174.57
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
5.67
12. REPORTING YEAR (SAIFI)
1.46
13. CORRECTIVE ACTION PLAN

INSULATOR FAILURE WAS A LARGE OUTAGE THAT ELEVATED THE 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
FLEMINGSBURG
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
FLEMING, ENERGY RD, FLEMINGSBURG
3. CIRCUIT NAME AND NUMBER
UNDERBUILD OCR 244
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
WALLINGFORD, KY 59
5. TOTAL CIRCUIT LENGTH (MILES)
77
6. CUSTOMER COUNT FOR THIS CIRCUIT
893
- 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	0.32	Tree Failure	0	Animal	0.17
Installation Fault	0	Tree w/ Ice	0	Cust Caused	0.04
Conductor Sag	0	In-house Tree	0	Motor Vehicle	5.46
Overload	0	Tree out of ROW	2.24	Public Cut Tree	0
Decay/Age Equip	0.14	Lightning	49.42	Public Other	1.55
Corrosion/Abrasion	0	Wind	0	Other	11.72
Tree w/ wind	21.58	Small Animal	2.45	Cause Unknown	4.74

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
15.3
10. REPORTING YEAR (SAIDI)
18.3
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.895
12. REPORTING YEAR (SAIFI)
0.102
13. CORRECTIVE ACTION PLAN

LIGHTNING WAS THE BIGGEST CAUSE. WILL INVESTIGATE MORE 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
CHARTERS
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
LEWIS, KY 9, CHARTERS
3. CIRCUIT NAME AND NUMBER
VANCEBURG OCR 224
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
VANCEBURG, KY 9
5. TOTAL CIRCUIT LENGTH (MILES)
170.1
6. CUSTOMER COUNT FOR THIS CIRCUIT
1372
- 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	3.16	Tree Failure	4.29	Animal	0
Installation Fault	0.02	Tree w/ Ice	0	Cust Caused	0.04
Conductor Sag	0	In-house Tree	0	Motor Vehicle	22.89
Overload	0	Tree out of ROW	45.13	Public Cut Tree	0
Decay/Age Equip	0.15	Lightning	5.21	Public Other	0
Corrosion/Abrasion	0	Wind	0.13	Other	0.12
Tree w/ wind	16.7	Small Animal	0.32	Cause Unknown	1.52
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
151.3
10. REPORTING YEAR (SAIDI)
224.4
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
5.41
12. REPORTING YEAR (SAIFI)
1.44
13. CORRECTIVE ACTION PLAN

TREE OUT OF ROW 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
MURPHYSVILLE
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
MASON, MURPHYSVILLE
3. CIRCUIT NAME AND NUMBER
WEAVER RD OCR 214
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
MAYSLICK, US 68
5. TOTAL CIRCUIT LENGTH (MILES)
83.7
6. CUSTOMER COUNT FOR THIS CIRCUIT
73
- 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	0.18	Tree Failure	0	Animal	0
Installation Fault	0.22	Tree w/ Ice	0	Cust Caused	0
Conductor Sag	0	In-house Tree	0	Motor Vehicle	10.47
Overload	0	Tree out of ROW	11.33	Public Cut Tree	0
Decay/Age Equip	0.3	Lightning	46.33	Public Other	0
Corrosion/Abrasion	0	Wind	0.42	Other	0
Tree Growth	0	Small Animal	15.91	Cause Unknown	14.82

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
17.33
10. REPORTING YEAR (SAIDI)
18.32
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
1.01
12. REPORTING YEAR (SAIFI)
0.145
13. CORRECTIVE ACTION PLAN

LIGHTNING 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

2021 - FLEMINGSBURG (COWAN, TILTON), MURPHYSVILLE (WEAVER RD, STONEWALL)

Trimming Cycle - 6 years

Spaying Cycle - 3 years

KENTUCKY PUBLIC SERVICE COMMISSION