

APR 02 2018

PUBLIC SERVICE  
COMMISSION

**Kentucky Public Service Commission**

**Electric Distribution Utility Annual Reliability Report**

**SECTION 1: CONTACT INFORMATION**

UTILITY NAME	<u>Meade County RECC</u>
REPORT PREPARED BY	<u>David Poe</u>
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**SECTION 2: REPORTING YEAR**

CALENDAR YEAR OF REPORT      2017

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

$T_{MED}$	<u>9.91</u>
FIRST DATE USED TO DETERMINE $T_{MED}$	<u>1/1/2012</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 29410                      TOTAL CIRCUITS 76

**Excluding MED**

5 YEAR AVERAGE		REPORTING YEAR	
SAIDI	<u>86.76</u>	SAIDI	<u>87.77</u>
SAIFI	<u>1.14</u>	SAIFI	<u>1.27</u>

**Including MED**

5 YEAR AVERAGE		REPORTING YEAR	
SAIDI	<u>216.16</u>	SAIDI	<u>98.63</u>
SAIFI	<u>2.07</u>	SAIFI	<u>1.34</u>

Notes:

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

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## SECTION 5: CIRCUIT REPORTING

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

#### (CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

##### **CIRCUIT #1:**

1. SUBSTATION NAME AND NUMBER: Andyville
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)  
Approximately 1 mile North of Andyville at intersection of Hwys 144 and 228 in Meade County
3. CIRCUIT NAME AND NUMBER  
Feeder 3 (Rhodelia circuit)
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)  
West along Hwy 144 towards Rhodelia
5. TOTAL CIRCUIT LENGTH (MILES)  
60 miles
6. CUSTOMER COUNT FOR THIS CIRCUIT  
446
7. DATE OF LAST CIRCUIT TRIM (VM)  
2014

8

Cause	Count	Percentage	Customer-hours	Customers	SAIDI	SAIFI
Storms	5	38.46	1036.45	989.00	139.43	2.22
Trees out of R/W	1	7.69	367.83	446.00	49.48	1.00
Pre-Arranged	3	23.08	11.72	62.00	1.58	0.14
Birds/Animals	2	15.38	37.31	36.00	5.02	0.08
Unknown	2	15.38	25.74	21.00	3.46	0.05

9. CIRCUIT 5 YEAR AVERAGE (SAIDI): 58.77

10. REPORTING YEAR (SAIDI) 140.11

11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.41

12. REPORTING YEAR (SAIFI): 2.49

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

5/27 - Storm caused high-side fuse in substation to fail (Major Event Day)

11/28 - Storm blew 3 trees outside of the right-of-way into the main line

3/1 - Tree outside of the right-of-way fell onto the main line during strong winds

No further action is deemed necessary

# Kentucky Public Service Commission

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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 #2:

1. SUBSTATION NAME AND NUMBER: Battletown
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)  
Approximately 1 1/2 mi. north of Battletown along Hwy 228 in Meade County
3. CIRCUIT NAME AND NUMBER  
Feeder 2 (Brandenburg Circuit)
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)  
Southeast along Hwy 228
5. TOTAL CIRCUIT LENGTH (MILES)  
16.3 miles
6. CUSTOMER COUNT FOR THIS CIRCUIT  
326
7. DATE OF LAST CIRCUIT TRIM (VM)  
2016

Cause	Count	Percentage	Customer-hours	Customers	SAIDI	SAIFI
Storms	8	38.10	568.31	192.00	104.60	0.59
Pre-Arranged	6	28.57	103.35	126.00	19.02	0.39
Public Cause	3	14.29	319.59	110.96	58.82	0.34
Trees out of R/W	1	4.76	42.72	54.00	7.86	0.17
Unknown	1	4.76	22.05	16.00	4.06	0.05
Trees in R/W	2	9.52	10.02	16.00	1.84	0.05

- 8
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 36.74
10. REPORTING YEAR (SAIDI) 191.74
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.40
12. REPORTING YEAR (SAIFI): 1.53
13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

9/20 - Loggers cut tree onto main line  
11/5 - Storm broke pole  
4/5 - lightning outaged 1 phase of the main line  
No further action is deemed necessary.

# 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 #3:**

1. SUBSTATION NAME AND NUMBER      Brandenburg
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)  
Near the corner of the bypass (Hwy 1051) and Old Ekron Rd in Brandenburg located in
3. CIRCUIT NAME AND NUMBER      Meade County  
Feeder 5 (Midway Circuit)
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)  
Southwest along Hwy 79 towards Midway
5. TOTAL CIRCUIT LENGTH (MILES)  
13.25 miles
6. CUSTOMER COUNT FOR THIS CIRCUIT  
533
7. DATE OF LAST CIRCUIT TRIM (VM)  
2017

Cause	Count	Percentage	Customer-hours	Customers	SAIDI	SAIFI
Unknown	3	25.00	2643.69	1113.00	297.60	2.09
Birds/Animals	1	8.33	838.46	554.00	94.39	1.04
Line Hardware	1	8.33	648.77	552.00	73.03	1.04
Pre-Arranged	2	16.67	40.47	43.00	4.56	0.08
Storms	2	16.67	8.19	4.00	0.92	0.01
KVA	3	25.00	4.09	3.00	0.46	0.01

- 8
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)      62.10
10. REPORTING YEAR (SAIDI)      470.96
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)      0.64
12. REPORTING YEAR (SAIFI):      4.26

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN  
 10/25 - Bird(s) flashed across insulator(s) in substation, outaging entire sub. Recloser and other equipment damaged and replaced  
 6/19 - Defective lightning arrestor downline on main line outages entire circuit  
 5/6 & 5/19 - Unknown causes at the time, but defective lightning arrestor found on 6/19  
 No further actions are deemed necessary. ROW was trimmed this year.



# 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 #5:

1. SUBSTATION NAME AND NUMBER      Doe Valley
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)  
    Along Hwy 1638 approximately 3 miles east of Brandenburg Station in Meade County
3. CIRCUIT NAME AND NUMBER  
    Feeder 1 (Rock Ridge circuit)
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)  
    North of substation along Hwy 933 towards the rear entrance of Doe Valley Resort
5. TOTAL CIRCUIT LENGTH (MILES)  
    14.4 miles
6. CUSTOMER COUNT FOR THIS CIRCUIT  
    307
7. DATE OF LAST CIRCUIT TRIM (VM)  
    2017

8

Cause	Count	Percentage	Customer-hours	Customers	SAIDI	SAIFI
Unknown	2	28.57	818.04	612.00	159.88	1.99
Pre-Arranged	2	28.57	30.05	29.00	5.87	0.09
Trees out of R/W	1	14.29	12.29	8.00	2.40	0.03
Other	1	14.29	1.90	8.00	0.37	0.03
Public Cause	1	14.29	1.87	4.00	0.37	0.01

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)      64.59
10. REPORTING YEAR (SAIDI)              168.89
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)    1.58
12. REPORTING YEAR (SAIFI)              2.15
13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

8/6 - Tree outside of right-of-way was later found to have fell and outaged the entire feeder  
10/7 - An insulator was later found on the mainline.  
No further actions are deemed necessary. ROW was trimmed this year.

# 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 #6:

1. SUBSTATION NAME AND NUMBER Falls of Rough
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)  
Approximately 1/3 miles west of intersection of Hwys 79 and 110 in Grayson County
3. CIRCUIT NAME AND NUMBER  
Feeder 1 (Lodge ckt)
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): East along Hwy 110, then north along Hwy 79, then across the Rough River Reservoir to Hinton Hills
5. TOTAL CIRCUIT LENGTH (MILES)  
14.56 Miles
6. CUSTOMER COUNT FOR THIS CIRCUIT  
568
7. DATE OF LAST CIRCUIT TRIM (VM)  
2017

8

Cause	Count	Percentage	Customer-hours	Customers	SAIDI	SAIFI
Storms	2	6.90	982.78	574.00	103.81	1.01
Pre-Arranged	11	37.93	142.17	115.00	15.02	0.20
Unknown	9	31.03	130.41	98.00	13.78	0.17
Trees out of R/W	3	10.34	112.05	72.00	11.84	0.13
Birds/Animals	1	3.45	12.21	11.00	1.29	0.02
KVA	2	6.90	8.98	8.00	0.95	0.01
Broken Pole	1	3.45	2.53	2.00	0.27	0.00

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 52.45
10. REPORTING YEAR (SAIDI) 146.95
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.68
12. REPORTING YEAR (SAIFI) 1.55
13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

2/28 - Severe storm outaged the entire feeder

No further actions are deemed necessary.

# 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 #7:

1. SUBSTATION NAME AND NUMBER Falls of Rough
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)  
Approximately 1/3 miles west of intersection of Hwys 79 and 110 in Grayson County
3. CIRCUIT NAME AND NUMBER  
Feeder 2 (Short Creek circuit)
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)  
East along Hwy 110, then south along Hwy 79
5. TOTAL CIRCUIT LENGTH (MILES)  
11.97 Miles
6. CUSTOMER COUNT FOR THIS CIRCUIT  
204
7. DATE OF LAST CIRCUIT TRIM (VM)  
2013

Cause	Count	Percentage	Customer-hours	Customers	SAIDI	SAIFI
Storms	4	40.00	146.59	56.00	43.33	0.28
Trees out of R/W	2	20.00	93.47	44.00	27.63	0.22
Line Hardware	2	20.00	15.40	39.00	4.55	0.19
Cutouts/OCB	1	10.00	25.01	24.00	7.39	0.12
Unknown	1	10.00	3.96	5.00	1.17	0.02

- 8
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 42.43
10. REPORTING YEAR (SAIDI) 83.65
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.29
12. REPORTING YEAR (SAIFI) 0.82

### 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

Storms throughout the year, causing a few outages on a very reliable feeder historically

No further actions are deemed necessary.



# 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 #8:**

1. SUBSTATION NAME AND NUMBER      Fordsville
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)  
    Approximately 1 mi. east of Fordsville along Hwy 54 in Ohio County
3. CIRCUIT NAME AND NUMBER  
    Feeder 1 (Dunaway Circuit)
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)  
    East on Hwy 54 through town, then north on Easton Rd, then northwest to Hwy 69
5. TOTAL CIRCUIT LENGTH (MILES)  
    18.88 miles
6. CUSTOMER COUNT FOR THIS CIRCUIT  
    601
7. DATE OF LAST CIRCUIT TRIM (VM)  
    2014

Cause	Count	Percentage	Customer-hours	Customers	SAIDI	SAIFI
Storms	6	30.00	4494.47	776.00	448.70	1.29
Trees out of RAW	3	15.00	276.38	114.00	27.59	0.19
Birds/Animals	4	20.00	79.48	61.00	7.94	0.10
Pre-Arranged	2	10.00	6.73	12.00	0.67	0.02
Unknown	2	10.00	4.81	4.00	0.48	0.01
Public Cause	2	10.00	3.62	2.00	0.36	0.00
Conductor	1	5.00	4.41	1.00	0.44	0.00

- 8
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)      50.36
10. REPORTING YEAR (SAIDI)              95.79
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)      0.27
12. REPORTING YEAR (SAIFI)              0.63

### 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

5/27 - Lightning and wind damaged a jumper wire in a remote location at night, outaging the entire feeder (Major Event Day)  
No further actions are deemed necessary.

# Kentucky Public Service Commission

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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 #9:**

1. SUBSTATION NAME AND NUMBER      Hardinsburg 1
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)  
    Immediately behind the Hardinsburg branch office in Hardinsburg in Breckinridge County
3. CIRCUIT NAME AND NUMBER Feeder  
    Feeder 3 (Town Circuit)
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)  
    West along Old US 60 in Hardinsburg
5. TOTAL CIRCUIT LENGTH (MILES)  
    1.49 miles
6. CUSTOMER COUNT FOR THIS CIRCUIT  
    278
7. DATE OF LAST CIRCUIT TRIM (VM)  
    2015
- 8

Cause	Count	Percentage	Customer-hours	Customers	SAIDI	SAIFI
Unknown	2	100.00	290.34	258.00	62.89	0.93

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)      11.06
10. REPORTING YEAR (SAIDI)              62.66
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)      0.22
12. REPORTING YEAR (SAIFI)              0.93
13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

5/11 - lightning damaged a cutout in the mainline, outaging on phase of the feeder

Downline cutouts in-line with the main circuit were either replaced with switches or eliminated  
No further actions are deemed necessary.

# 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 #10:**

1. SUBSTATION NAME AND NUMBER      Hardinsburg 2
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)  
Northeast corner of US-60 and Old US-60 intersection in west Hardinsburg in
3. CIRCUIT NAME AND NUMBER      Breckinridge County  
Feeder 1 (McQuady circuit)
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)  
Southwest along Hwys 261 and 108
5. TOTAL CIRCUIT LENGTH (MILES)  
35.5 Miles
6. CUSTOMER COUNT FOR THIS CIRCUIT  
655
7. DATE OF LAST CIRCUIT TRIM (VM)  
2016

Cause	Count	Percentage	Customer-hours	Customers	SAIDI	SAIFI
Line Hardware	2	13.33	2000.40	1204.00	183.24	1.84
Public Cause	3	20.00	276.82	94.00	25.36	0.14
Birds/Animals	3	20.00	50.21	37.00	4.60	0.06
Storms	3	20.00	30.82	13.00	2.82	0.02
Trees out of R/W	3	20.00	15.96	12.00	1.46	0.02
Pre-Arranged	1	6.67	2.82	3.00	0.26	0.00

- 8
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)      67.32
10. REPORTING YEAR (SAIDI)      217.74
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)      0.69
12. REPORTING YEAR (SAIFI)      2.08
13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

11/7 - was actually only one event, but a portion was re-energized. Downline insulator pin came loose on a cross in a remote field, shorting phases and outaging the entire feeder

No further actions are deemed necessary

# 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 #11:

1. SUBSTATION NAME AND NUMBER      McDaniels
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)  
0.8 mile northwest of McDaniels along Hwy 259 in southern Breckinridge County
3. CIRCUIT NAME AND NUMBER  
Feeder 4 (Cannon's Point Circuit)
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)  
East along Hwy 259 including Hwy 737 and Cannon's Point Lane
5. TOTAL CIRCUIT LENGTH (MILES)  
16.12 Miles
6. CUSTOMER COUNT FOR THIS CIRCUIT  
718
7. DATE OF LAST CIRCUIT TRIM (VM)  
2017

8 Cause	Count	Percentage	Customer-hours	Customers	SAIDI	SAIFI
Pre-Arranged	14	48.28	118.99	111.00	9.96	0.15
Trees out of R/W	5	17.24	145.54	66.00	12.18	0.09
Unknown	2	6.90	87.07	59.00	7.29	0.08
Birds/Animals	2	6.90	40.21	55.00	3.36	0.08
Storms	2	6.90	277.18	49.00	23.19	0.07
KVA	2	6.90	15.44	7.00	1.29	0.01
Line Hardware	1	3.45	0.84	1.00	0.07	0.00
Public Cause	1	3.45	1.81	1.00	0.15	0.00

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)      29.70
10. REPORTING YEAR (SAIDI)              57.42
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)      0.31
12. REPORTING YEAR (SAIFI)              0.49

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

11/18 - Large tree fell into the ROW onto a major single-phase line, outaging it for nearly 6 hours during a storm  
There were several small to individual pre-arranged outages due to many line upgrades and copper replacement jobs in the area.  
No further action is deemed necessary.

# 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 #12:**

1. SUBSTATION NAME AND NUMBER      Union Star
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)  
Due north of the Hwy 86/Hwy 144 intersection along the Old Union Star Rd in northern
3. CIRCUIT NAME AND NUMBER      Breckinridge County  
Feeder 2 (Frymire circuit)
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)  
East along Hwy 144 towards Payneville including Hwy 477
5. TOTAL CIRCUIT LENGTH (MILES)  
19.93 miles
6. CUSTOMER COUNT FOR THIS CIRCUIT  
360
7. DATE OF LAST CIRCUIT TRIM (VM)  
2016

8

Cause	Count	Percentage	Customer-hours	Customers	SAIDI	SAIFI
Storms	8	47.06	831.11	449.00	138.52	1.25
Unknown	2	11.76	10.94	11.00	1.82	0.03
Trees out of R/W	1	5.88	10.13	10.00	1.69	0.03
Birds/Animals	2	11.76	5.68	5.00	0.95	0.01
Conductor	1	5.88	23.42	5.00	3.90	0.01
KVA	2	11.76	4.55	2.00	0.76	0.01
Pre-Arranged	1	5.88	0.92	1.00	0.15	0.00

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)      40.90
10. REPORTING YEAR (SAIDI)      147.48
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)      0.45
12. REPORTING YEAR (SAIFI)      1.34

13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN

On 7/23 - Large tree outside of the ROW fell onto the main line during a storm, outaging the entire feeder

No further actions deemed necessary

# Kentucky Public Service Commission

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## SECTION 6: VEGETATION MANAGEMENT PLAN REVIEW

### INCLUDE CURRENT VEGETATION MANAGEMENT PLAN

Additional page may be attached as needed.

There were no alarming trends regarding vegetation related outages in 2017. Scheduled substation trimming has progressed as planned and no changes to the 2018 schedule are anticipated.

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## SECTION 7: UTILITY COMMENTS

Storm related outages were the most prevalent in 2017. However the overall outage numbers were down significantly compared to prior years. Pre-arranged hours are still noticeable due to continued conductor replacement. Safety concerns have accelerated those numbers in the latter years and will continue to be a concern.

2017 concludes the huge copper replacement project MCRECC has worked on for several years. Only small lines and taps remain which will be replaced as time and efforts allow. Replacement of the aging small copper lines have been a huge boost for reliability.