



JUL 07 2014

PUBLIC SERVICE  
COMMISSION

Farmers Rural Electric Cooperative Corporation

504 South Broadway, Glasgow, KY 42141 • P.O. Box 1298, Glasgow, KY 42142-1298 • (270) 651-2191 • FAX (270) 651-7332

July 3, 2014

Jeff Derouen, Executive Director  
Kentucky Public Service Commission  
211 Sower Blvd.  
P. O. Box 615  
Frankfort, KY 40602-0615

RE: Case No. 2011-00450

Dear Mr. Derouen,  
Farmers RECC respectfully submits the information requested regarding Case No. 2011-00450.  
If you have any questions, please contact me.

Sincerely,

A handwritten signature in cursive script that reads 'Tony Wells'.

Tony Wells  
V. P. Technical Services  
Farmers Rural Electric Cooperative Corporation

[www.farmersrecc.com](http://www.farmersrecc.com)

A Touchstone Energy® Cooperative The logo for Touchstone Energy, which is a stylized 'X' inside a square.

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## KENTUCKY PUBLIC SERVICE COMMISSION

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## Electric Distribution Utility Annual Reliability Report

**SECTION 1: CONTACT INFORMATION**

UTILITY NAME	Farners Rural Electric Cooperative
REPORT PREPARED BY	Tony Wells
E-MAIL ADDRESS OF PREPARER	twells@farmersrecc.com
PHONE NUMBER OF PREPARER	270-651-2191 Ext 8200

**SECTION 2: REPORT YEAR**

CALENDAR YEAR OF REPORT	2013
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**SECTION 3: MAJOR EVENT DAYS**

$T_{MED}$	30.29
FIRST DATE USED TO DETERMINE $T_{MED}$	5/1/2010
LAST DATE USED TO DETERMINE $T_{MED}$	12/31/2012
NUMBER OF MED IN REPORT YEAR	2

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	24257	TOTAL CIRCUITS	57
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**Excluding MED**

5 YEAR AVERAGE		REPORTING YEAR	
SAIDI	230.54	SAIDI	176.9
SAIFI	2.01	SAIFI	1.8

**Including MED**

5 YEAR AVERAGE		REPORTING YEAR	
SAIDI	279.39	SAIDI	295.65
SAIFI	2.26	SAIFI	2.44

## Notes:

- 1) All duration indices (SAIDI, CAIDI) 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, CAIDI, and  $T_{MED}$

**SECTION 5: CIRCUIT REPORTING**

**(CIRCUIT WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE  
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)**

**CIRCUIT #1**

**1. SUBSTATION NAME AND NUMBER**

Goodnight (1)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Barren County - Hwy 31 E - Goodnight Community

**3. CIRCUIT NAME AND NUMBER**

Country Club Circuit (3)

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

Old Munfordville Rd and Backside of Country Club

**5. TOTAL CIRCUIT MILES (MILES)**

18.6 miles

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

266

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2014

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

Tree Related Off- RW	50.5%
Weather	46.5%
Tree Related On - RW	1.6%
Animal	0.8%
Public	0.3%
Equipment	0.2%
Planned	0.1%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

124.8

**10. REPORTING YEAR (SAIDI)**

734.68

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

1.14

**12. REPORTING YEAR (SAIFI)**

4.95

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

R/W Trimmed in 1st qtr 2014

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## CIRCUIT #2

**1. SUBSTATION NAME AND NUMBER**

Goodnight (1)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Barren County - Hwy 31 E - Goodnight Community

**3. CIRCUIT NAME AND NUMBER**

Rock Quarry (4)

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

Rock Quarry and Hwy 90

**5. TOTAL CIRCUIT MILES (MILES)**

47.5

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

428

**7. DATE OF LAST CIRCUIT TRIM (VM)**

Before 2009

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

Tree off- RW	45.2%
Weather	36.3%
Unknown	17.0%
Tree On - RW	0.5%
Equipment	0.1%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

93.24

**10. REPORTING YEAR (SAIDI)**

152.81

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

2.1

**12. REPORTING YEAR (SAIFI)**

1.42

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

Right of way to be cut in 2014

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #3

1. **SUBSTATION NAME AND NUMBER**  
Goodnight (1)
2. **SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**  
Barren County - Hwy 31 E - Goodnight Community
3. **CIRCUIT NAME AND NUMBER**  
Cave City (5)
4. **CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)**  
Goodnight to Cave City via Whitney Woods Rd
5. **TOTAL CIRCUIT MILES (MILES)**  
21.4
6. **CUSTOMER COUNT FOR THIS CIRCUIT**  
92
7. **DATE OF LAST CIRCUIT TRIM (VM)**  
Before 2009
8. **LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE**

Weather	91.9%
Animal	7.5%
Maintenance	0.6%
9. **CIRCUIT 5 YEAR AVERAGE (SAIDI)**  
19.92
10. **REPORTING YEAR (SAIDI)**  
50.2
11. **CIRCUIT 5 YEAR AVERAGE (SAIFI)**  
0.8
12. **REPORTING YEAR (SAIFI)**  
0.54
13. **LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN**  
None taken or to be taken. One outage caused circuit to break criteria

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## CIRCUIT #4

**1. SUBSTATION NAME AND NUMBER**

Munfordville (2)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Hart County - North 31-W - Munfordville, KY

**3. CIRCUIT NAME AND NUMBER**

Northtown (2)

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

County barn road, along I65 and Northtown

**5. TOTAL CIRCUIT MILES (MILES)**

76.8

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

482

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2011

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

Equipment	45.9%
Tree off- RW	17.0%
Weather	16.4%
Unknown	15.1%
Public	4.5%
Animal	0.6%
Planned	0.6%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

253.95

**10. REPORTING YEAR (SAIDI)**

375.95

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

2.17

**12. REPORTING YEAR (SAIFI)**

4.83

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

Portion of line will be converted from 12.47 kV to 25 kV which entails changing all transformers and most poletop hardware. 30 poles were added in lines to reduce spans. Line will have additional fuses and lightning protection added in 2014. Sectionalizing study performed changes to be implemented in 2014.

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #5

**1. SUBSTATION NAME AND NUMBER**

Munfordville (2)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Hart County - North 31-W - Munfordville, KY

**3. CIRCUIT NAME AND NUMBER**

Jonesville (5)

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

Hammondsville, Jonesville and Aetna Furnace areas

**5. TOTAL CIRCUIT MILES (MILES)**

174.3

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

1061

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2013

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

Weather	41.4%
Tree off- RW	29.7%
Tree on- RW	11.2%
Unknown	5.8%
Public	3.6%
Equipment	3.6%
Fire	3.2%
Animal	1.2%
Borrower Cuts Tree	0.2%
Planned	0.1%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

225.38

**10. REPORTING YEAR (SAIDI)**

795.93

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

1.91

**12. REPORTING YEAR (SAIFI)**

6.52

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

All taps on 3 phase were fused in 2013

Sectionalizing study was performed and implemented in 2013

Numerous lightning arrestors were added to line in 2013

Right of way was trimmed in 2013

Some lines were relocated to remove wooded cross country lines

New substation will be serving most of the load in 2014.

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #6

1. **SUBSTATION NAME AND NUMBER**  
Munfordville (2)
2. **SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**  
Hart County - North 31-W - Munfordville, KY
3. **CIRCUIT NAME AND NUMBER**  
Munfordville Industrial Park (7)
4. **CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)**  
Munfordville, Industrial park at substation
5. **TOTAL CIRCUIT MILES (MILES)**  
0.22
6. **CUSTOMER COUNT FOR THIS CIRCUIT**  
5
7. **DATE OF LAST CIRCUIT TRIM (VM)**  
N/A
8. **LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE**

Equipment Failure	100.0%
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9. **CIRCUIT 5 YEAR AVERAGE (SAIDI)**  
0
10. **REPORTING YEAR (SAIDI)**  
22.33
11. **CIRCUIT 5 YEAR AVERAGE (SAIFI)**  
0
12. **REPORTING YEAR (SAIFI)**  
0.2
13. **LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN**  
None



# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #7

**1. SUBSTATION NAME AND NUMBER**

Temple Hill (3)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Barren County - Hwy 63 - Temple Hill

**3. CIRCUIT NAME AND NUMBER**

Summer Shade (1)

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

Temple Hill to Summer Shade - Hwy 90

**5. TOTAL CIRCUIT MILES (MILES)**

125.65

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

869

**7. DATE OF LAST CIRCUIT TRIM (VM)**

Before 2009

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

Weather	29.6%
Unknown	23.4%
Public	20.4%
Animal	14.5%
Equipment	7.4%
Tree on- RW	2.5%
Planned	1.5%
Tree off- RW	0.7%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

633.69

**10. REPORTING YEAR (SAIDI)**

323.54

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

2.77

**12. REPORTING YEAR (SAIFI)**

5.27

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

All taps on 3 phase were fused in 2014

Sectionalizing study was performed and implemented in 2014

Numerous lightning arrestors were added to line in 2014

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #8

**1. SUBSTATION NAME AND NUMBER**

Beckton (2)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Barren County - Hwy 1297 - Beckton

**3. CIRCUIT NAME AND NUMBER**

Rocky Hill - Barren River State Park

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

Beckton, Rocky Hill, Finney - Hwy 252, Beckton-Rocky Hill Rd - Barren River State Pk

**5. TOTAL CIRCUIT MILES (MILES)**

109.79

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

1125

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2010

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

Weather	24.3%
Unknown	22.1%
Animal	16.9%
Tree on- RW	16.4%
Tree off- RW	9.5%
Equipment	5.9%
Public	2.8%
Planned	2.0%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

85.48

**10. REPORTING YEAR (SAIDI)**

113.56

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

1.159

**12. REPORTING YEAR (SAIFI)**

1.79

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

All taps on 3 phase will be fused in 2015

Sectionalizing study will be performed and implemented in 2015

Numerous lightning arrestors will be added to line in 2015

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #9

**1. SUBSTATION NAME AND NUMBER**

Beckton (4)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Barren County - Hwy 1297 - Beckton

**3. CIRCUIT NAME AND NUMBER**

Bon Ayr (4)

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

Bon Ayr - Hwy 68-80

**5. TOTAL CIRCUIT MILES (MILES)**

116.34

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

531 (Avg customers due to new substation in 2013)

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2014

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

Equipment	76.4%
Animal	18.1%
Tree on- RW	3.8%
Public	1.6%
Planned	0.04%
Tree off- RW	0.03%
Unknown	0.03%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

208.48

**10. REPORTING YEAR (SAIDI)**

748.31

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

2.18

**12. REPORTING YEAR (SAIFI)**

7.13

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

New substation energized mid-year 2013

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #10

**1. SUBSTATION NAME AND NUMBER**

Cave City (6)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Barren County - Hwy 90 - Cave City

**3. CIRCUIT NAME AND NUMBER**

Cave City (2)

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

Cave City - I65 interchange

**5. TOTAL CIRCUIT MILES (MILES)**

3.43

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

41

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2011

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

Equipment Failure	94.3%
Weather	5.7%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

4.3

**10. REPORTING YEAR (SAIDI)**

13.25

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

0.06

**12. REPORTING YEAR (SAIFI)**

0.07

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

None, one outage caused circuit to fail criteria.

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #11

**1. SUBSTATION NAME AND NUMBER**

Parkway (7)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Barren County - Hwy 31E - Glasgow, KY

**3. CIRCUIT NAME AND NUMBER**

Roseville (3)

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

Glasgow, KY - Roseville Rd - South of Glasgow, KY

**5. TOTAL CIRCUIT MILES (MILES)**

37.0

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

454

**7. DATE OF LAST CIRCUIT TRIM (VM)**

Before 2009

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

Tree off- RW	97.5%
Borrower Cuts Tree	1.9%
Tree on- RW	0.2%
Unknown	0.1%
Maintenance, Other	0.1%
Weather	0.1%
Animal	0.04%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

32.09

**10. REPORTING YEAR (SAIDI)**

249.59

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

0.29

**12. REPORTING YEAR (SAIFI)**

1.98

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

None, major category is off right of way trees.

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #12

**1. SUBSTATION NAME AND NUMBER**

Parkway (7)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Barren County - Hwy 31E - Glasgow, KY

**3. CIRCUIT NAME AND NUMBER**

Haywood (4)

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

Glasgow, KY - Hwy 31E - Haywood

**5. TOTAL CIRCUIT MILES (MILES)**

46.36

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

830

**7. DATE OF LAST CIRCUIT TRIM (VM)**

Before 2009

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

Tree off- RW	82.3%
Weather	15.4%
Tree on- RW	2.1%
Animal	2.1%
Unknown	1.4%
Planned	0.8%
Public	0.6%
Equipment Failure	0.05%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

100.57

**10. REPORTING YEAR (SAIDI)**

255.13

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

0.97

**12. REPORTING YEAR (SAIFI)**

2.39

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

None, major category is off right of way trees.

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #13

**1. SUBSTATION NAME AND NUMBER**

Galloway (8)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Metcalfe County - Hwy 68-80 - Edmonton, KY

**3. CIRCUIT NAME AND NUMBER**

Randolph (2)

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

Edmonton, Ky - Hwy 68-80, Randolph Rd - Wisdom and Randolph

**5. TOTAL CIRCUIT MILES (MILES)**

104.15

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

772

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2011

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

Equipment Failure	53.4%
Weather	23.9%
Animal	14.2%
Tree Off - RW	6.5%
Public	1.4%
Unknown	0.6%
Planned	0.2%
Other	0.0%
Planned	0.01%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

124.94

**10. REPORTING YEAR (SAIDI)**

162.84

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

1.63

**12. REPORTING YEAR (SAIFI)**

1.53

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

None, one outage caused circuit to fail criteria.

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #14

**1. SUBSTATION NAME AND NUMBER**

Galloway (8)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Metcalfe County - Hwy 68-80 - Edmonton, KY

**3. CIRCUIT NAME AND NUMBER**

Old Hwy 68-80 (3)

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

Edmonton, KY - Old Hwy 68-80

**5. TOTAL CIRCUIT MILES (MILES)**

0.93

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

17

**7. DATE OF LAST CIRCUIT TRIM (VM)**

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

Public	100.0%
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**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

0.00

**10. REPORTING YEAR (SAIDI)**

8.12

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

0.00

**12. REPORTING YEAR (SAIFI)**

0.12

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

Only Experienced 1 outage in 3 years



# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #15

**1. SUBSTATION NAME AND NUMBER**

Seymour (11)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Hart County - Hwy 218 - Horse Cave, KY

**3. CIRCUIT NAME AND NUMBER**

Uno (2)

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

Uno, KY - Hwy 31E - Uno, Bunnell Crossing

**5. TOTAL CIRCUIT MILES (MILES)**

111.96

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

743

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2012

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

Weather	72.9%
Equipment Failure	20.4%
Animal	4.5%
Planned	1.4%
Tree on- RW	0.5%
Tree off- RW	0.2%
Unknown	0.1%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

184.61

**10. REPORTING YEAR (SAIDI)**

253.09

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

1.75

**12. REPORTING YEAR (SAIFI)**

2.68

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

Perform overvoltage study and install lightning arrestors

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #16

**1. SUBSTATION NAME AND NUMBER**

Seymour (11)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Hart County - Hwy 218 - Horse Cave, KY

**3. CIRCUIT NAME AND NUMBER**

Monroe (4)

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

Hardyville, KY - Hwy 218, Hundred Acre rd - Legrade and Monroe

**5. TOTAL CIRCUIT MILES (MILES)**

49.40

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

403

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2012

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

Weather	74.1%
Equipment Failure	18.9%
Unknown	6.7%
Planned	1.2%
Animal	0.1%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

101.01

**10. REPORTING YEAR (SAIDI)**

153.68

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

0.94

**12. REPORTING YEAR (SAIFI)**

1.42

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

None, one outage caused circuit to fail criteria.

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #17

**1. SUBSTATION NAME AND NUMBER**

Fox Hollow (12)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Barren County - Hwy 63 - Glasgow, KY

**3. CIRCUIT NAME AND NUMBER**

Lecta (1)

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

Glasgow, KY - Hy 68-80 - Lecta

**5. TOTAL CIRCUIT MILES (MILES)**

85.32

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

975

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2013

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

Weather	41.9%
Tree on- RW	30.3%
Public	20.1%
Unknown	3.2%
Equipment Failure	2.7%
Borrower crew	0.6%
Animal	0.5%
Tree off- RW	0.4%
Planned	0.1%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

98.22

**10. REPORTING YEAR (SAIDI)**

264.38

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

0.94

**12. REPORTING YEAR (SAIFI)**

1.40

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

Right of way was cut in 2013

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #18

**1. SUBSTATION NAME AND NUMBER**

Fox Hollow (12)

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Barren County - Hwy 63 - Glasgow, KY

**3. CIRCUIT NAME AND NUMBER**

Hollow Rd (3)

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

Glasgow, KY - Hwy 90 and Hollow Rd - Green Valley

**5. TOTAL CIRCUIT MILES (MILES)**

8.36

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

166

**7. DATE OF LAST CIRCUIT TRIM (VM)**

Before 2009

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

Equipment Failure	87.4%
Weather	4.3%
Planned	3.7%
Animal	2.5%
Public	2.1%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

93.74

**10. REPORTING YEAR (SAIDI)**

152.43

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

1.24

**12. REPORTING YEAR (SAIFI)**

0.99

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

None, one outage caused circuit to fail criteria.

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #19

1. **SUBSTATION NAME AND NUMBER**  
Edmonton Industrial (2)
2. **SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**  
Metcalfe County - Industrial Dr - Edmonton, KY
3. **CIRCUIT NAME AND NUMBER**  
Industrial Park (2)
4. **CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)**  
Edmonton, KY - Industrial Drive - Edmonton Industrial Park
5. **TOTAL CIRCUIT MILES (MILES)**  
0.68
6. **CUSTOMER COUNT FOR THIS CIRCUIT**  
10
7. **DATE OF LAST CIRCUIT TRIM (VM)**  
2010
8. **LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE**

Unknown	100.0%
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9. **CIRCUIT 5 YEAR AVERAGE (SAIDI)**  
0.00
10. **REPORTING YEAR (SAIDI)**  
17.5
11. **CIRCUIT 5 YEAR AVERAGE (SAIFI)**  
0.00
12. **REPORTING YEAR (SAIFI)**  
0.1
13. **LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN**  
One outage on a circuit that has not had an outage in 2 years

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #20

1. **SUBSTATION NAME AND NUMBER**  
Edmonton Industrial (2)
2. **SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**  
Metcalfe County - Industrial Dr - Edmonton, KY
3. **CIRCUIT NAME AND NUMBER**  
Sumitomo SEWS (3)
4. **CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)**  
Edmonton, KY - Industrial Drive - Edmonton Industrial Park
5. **TOTAL CIRCUIT MILES (MILES)**  
0.19
6. **CUSTOMER COUNT FOR THIS CIRCUIT**  
1
7. **DATE OF LAST CIRCUIT TRIM (VM)**  
2010
8. **LIST OUTAGE FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE**

Weather	100.0%
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9. **CIRCUIT 5 YEAR AVERAGE (SAIDI)**  
0.00
10. **REPORTING YEAR (SAIDI)**  
158.5
11. **CIRCUIT 5 YEAR AVERAGE (SAIFI)**  
0.00
12. **REPORTING YEAR (SAIFI)**  
0.5
13. **LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN**  
One outage on a circuit that has not had an outage in 2 years

# KENTUCKY PUBLIC SERVICE COMMISSION

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## CIRCUIT #21

**1. SUBSTATION NAME AND NUMBER**

Bon Ayr

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Barren County - Hwy 68-80 - Glasgow, KY

**3. CIRCUIT NAME AND NUMBER**

Dripping Springs (1)

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

Glasgow, KY - Hwy 68-80, Dripping Springs - Drippings Springs

**5. TOTAL CIRCUIT MILES (MILES)**

23.7253965751893

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

333

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2014

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

Unknown	95.4%
Tree on- RW	4.6%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

0.00

**10. REPORTING YEAR (SAIDI)**

153.45

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

0.00

**12. REPORTING YEAR (SAIFI)**

1.49

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

Two outages, new substation brought online in 2013 with no history

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #22

**1. SUBSTATION NAME AND NUMBER**

Bon Ayr

**2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)**

Barren County - Hwy 68-80 - Glasgow, KY

**3. CIRCUIT NAME AND NUMBER**

Park City (3)

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

Park City, KY - Bon Ayr - Park City Rd - Park City

**5. TOTAL CIRCUIT MILES (MILES)**

51.70

**6. CUSTOMER COUNT FOR THIS CIRCUIT**

403

**7. DATE OF LAST CIRCUIT TRIM (VM)**

2014

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

Tree on- RW	96.2%
Unknown	3.8%

**9. CIRCUIT 5 YEAR AVERAGE (SAIDI)**

0.00

**10. REPORTING YEAR (SAIDI)**

6.4

**11. CIRCUIT 5 YEAR AVERAGE (SAIFI)**

0.00

**12. REPORTING YEAR (SAIFI)**

0.09

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

Three outages, new substation brought online in 2013 with no history



# KENTUCKY PUBLIC SERVICE COMMISSION

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## Electric Distribution Utility Annual Reliability Report

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Additional pages may be attached as necessary

### SECTION 7: VEGETATION MANAGEMENT PLAN REVIEW

#### Farmers RECC Vegetation Management Plan for 2014

Farmers Rural Electric will be committed to its members by providing safe reliable electricity.

For 2014 we have contracted with Enviromental Consultants Inc. (ECI) to help oversee and manage our Right-Of-Way Program.

In 2014 we have started work on five circuits. We have contracted with A&G Tree Service to clear the following circuits.

- Goodnight-Hiseville-Circuit #1 which has 76 miles of line.
- Goodnight-Rock Quarry-Circuit # 4 which has 49 miles.
- Munfordville-Priceville-Circuit #3 which has 84 miles.
- Bonnieville-Munfordville-Circuit #2 which has 50 miles.
- West Glasgow-Bowling Green Road-Circuit #1 which has 52 miles.

We also have two A& G crews working hot spots & yard trees. They are cutting right of way for new work orders.

We have contracted with Osmose for herbicide spraying that will include several miles of line which will include the following circuits.

- Knob Lick-Sulpher Well-Circuit #1 which has 96 miles.
- Knob Lick-Center-Circuit #4 which has 112 miles.
- Knob Lick-Wisdom-Circuit #5 which has 28 miles.
- Fox Hollow-Green Valley-Circuit #1 which has 90 miles.

Total miles 326

By implementing this work plan we can keep our commitment to our consumers and provide a safe reliable service.

# KENTUCKY PUBLIC SERVICE COMMISSION

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## SECTION 8: UTILITY COMMENTS

Circuit comparison based on 2 years of history instead of 5. 5 years of data not available in the OMS.