

**Cumberland Valley Electric, Inc.**

P.O. Box 440  
Gray, Kentucky 40734

**RECEIVED**

APR 26 2016

Public Service  
Commission

April 21, 2016

Executive Director  
Public Service Commission  
211 Sower Blvd  
Frankfort, KY 40602

RE: Cumberland Valley Electric's 2015 Reliability Report

Dear Sir:

Please find enclosed herewith a CD that contains Cumberland Valley Electric's annual distribution reliability report for 2015. This report was previously sent electronically via email to Steve Kingsolver. It is now submitted in a hard copy format.

Sincerely,



Mark D. Abner, P.E.  
Cumberland Valley Electric, Inc.

# KENTUCKY PUBLIC SERVICE COMMISSION

## Electric Distribution Utility Annual Reliability Report

### SECTION 1: CONTACT INFORMATION

UTILITY NAME	Cumberland Valley Electric
REPORT PREPARED BY	Mark Abner
E-MAIL ADDRESS OF PREPARER	<a href="mailto:mark.abner@cumberlandvalley.coop">mark.abner@cumberlandvalley.coop</a>
PHONE NUMBER OF PREPARER	1-800-513-2677

### SECTION 2: REPORTING YEAR

CALENDAR YEAR OF REPORT	2015
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### SECTION 3: MAJOR EVENT DAYS (MED)

$T_{MED}$	13.262
FIRST DATE USED TO DETERMINE $T_{MED}$	1/1/2010
LAST DATE USED TO DETERMINE $T_{MED}$	12/31/2015
NUMBER OF MED IN REPORT YEAR	0

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	<u>23809</u>	TOTAL CIRCUITS	<u>64</u>
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#### Excluding MED

5 YEAR AVERAGE		REPORTING YEAR	
SAIDI	<u>127.66</u>	SAIDI	<u>169.361</u>
SAIFI	<u>1.36</u>	SAIFI	<u>1.98</u>

#### Including MED

5 YEAR AVERAGE		REPORTING YEAR	
SAIDI	<u>166.9</u>	SAIDI	<u>169.361</u>
SAIFI	<u>1.78</u>	SAIFI	<u>1.98</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  
Bacon Creek 87
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)  
Whitley Bacon Crk Rd Corbin
3. CIRCUIT NAME AND NUMBER  
I 75 1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)  
S Corbin I-75 Exit 25 US 25W
5. TOTAL CIRCUIT LENGTH (MILES)  
6.3
6. CUSTOMER COUNT FOR THIS CIRCUIT  
43
- 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  
power supplier 25%, unknown 76%
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)  
1.2
10. REPORTING YEAR (SAIDI)  
2.359
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)  
0.12
12. REPORTING YEAR (SAIFI)  
0.07
13. CORRECTIVE ACTION PLAN  
Can not design corrective plan when majority of outage causes are unknown.

#### REPEAT INFORMATION FOR EACH CIRCUIT EXCEEDING ITS 5 YEAR AVERAGE FOR SAIDI AND/OR SAIFI

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## SECTION 6: VEGETATION MANAGEMENT PLAN REVIEW

### INCLUDE CURRENT VEGETATION MANAGEMENT PLAN

Additional page may be attached as needed.

CVE plans to trim Jellico Creek and Goldbug substation circuits in 2016.  
Emanuel and Girdler substation circuits are planned for 2017.

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## SECTION 7: UTILITY COMMENTS

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #7:

1. SUBSTATION NAME AND NUMBER

Chad 103

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Harlan KY522 Chad

3. CIRCUIT NAME AND NUMBER

Line Fork 4

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

KY522, US119, Chad, Totz, Putney

5. TOTAL CIRCUIT LENGTH (MILES)

80

6. CUSTOMER COUNT FOR THIS CIRCUIT

1004

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

unknown 10%, bad r/w 3%, on r/w tree 41%, off r/w tree 29%, equip fail 17%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

712.76

10. REPORTING YEAR (SAIDI)

821.885

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

29.29

12. REPORTING YEAR (SAIFI)

9.46

13. CORRECTIVE ACTION PLAN

trim/remove trees as needed

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## CIRCUIT #9:

1. SUBSTATION NAME AND NUMBER

Emanuel 21

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Knox, KY229, Bailey Switch

3. CIRCUIT NAME AND NUMBER

Swan Pond 1

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

Barbourville, KY459, KY11, Baily Sw, California Hol, Sharps Gap, Swan Pond, Davis Bend

5. TOTAL CIRCUIT LENGTH (MILES)

83.1

6. CUSTOMER COUNT FOR THIS CIRCUIT

819

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

unknown 5%, bad r/w 12%, sm animal 6%, on r/w tree 58%, off r/w tree 19%, equip fail 1%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

147.33

10. REPORTING YEAR (SAIDI)

207.645

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

8.26

12. REPORTING YEAR (SAIFI)

3.65

13. CORRECTIVE ACTION PLAN

trim/cut trees as needed

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## CIRCUIT #10:

1. SUBSTATION NAME AND NUMBER  
Emanuel 21
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)  
Knox, KY229, Bailey Switch
3. CIRCUIT NAME AND NUMBER  
Canon 2
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)  
KY229, KY3438, KY11, Valentine Br
5. TOTAL CIRCUIT LENGTH (MILES)  
27
6. CUSTOMER COUNT FOR THIS CIRCUIT  
369
- 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  
unknown 12%, sm animal 10%, on r/w tree 33%, storm 43%
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)  
54.7
10. REPORTING YEAR (SAIDI)  
65.202
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)  
2.78
12. REPORTING YEAR (SAIFI)  
0.54
13. CORRECTIVE ACTION PLAN  
trim/remove trees as needed

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## CIRCUIT #12:

1. SUBSTATION NAME AND NUMBER  
Girdler 106
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)  
Knox, Hampton Cemetery, Girdler
3. CIRCUIT NAME AND NUMBER  
Girdler 1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)  
Woollum, KY11, Hammons Fork, Disapointment
5. TOTAL CIRCUIT LENGTH (MILES)  
68.4
6. CUSTOMER COUNT FOR THIS CIRCUIT  
348
- 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  
planned const 7%, planned maint 13%, sm animal 1%, on r/w tree 28%, eq fail 30%, unk 18%
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)  
293.58
10. REPORTING YEAR (SAIDI)  
581.134
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)  
10.01
12. REPORTING YEAR (SAIFI)  
7.88
13. CORRECTIVE ACTION PLAN  
inspect facilities for deficiencies, trim/remove trees as needed

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## CIRCUIT #14:

1. SUBSTATION NAME AND NUMBER

Girdler 106

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Knox, Hampton Cemetery, Girdler

3. CIRCUIT NAME AND NUMBER

Girdler 3

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

Cranes Nest, KY1304, KY1803

5. TOTAL CIRCUIT LENGTH (MILES)

47.3

6. CUSTOMER COUNT FOR THIS CIRCUIT

386

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

unk 9%, on r/w tree 1%, off r/w tree 77%, vehicle accident 13%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

245.79

10. REPORTING YEAR (SAIDI)

475.736

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

5.42

12. REPORTING YEAR (SAIFI)

2.13

13. CORRECTIVE ACTION PLAN

trim/remove trees as needed

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## CIRCUIT #16:

1. SUBSTATION NAME AND NUMBER  
Goldbug 64
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)  
Whitley, US25W, Goldbug
3. CIRCUIT NAME AND NUMBER  
Canadatown 1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)  
Canadatown, US25W, KY204, Clio
5. TOTAL CIRCUIT LENGTH (MILES)  
112
6. CUSTOMER COUNT FOR THIS CIRCUIT  
1044
- 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  
bad r/w 1%, sm animal 2%, on r/w tree 56%, off r/w tree 2%, storm 28%, eq fail 4%, unk 7%
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)  
52.92
10. REPORTING YEAR (SAIDI)  
96.558
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)  
3.21
12. REPORTING YEAR (SAIFI)  
1.65
13. CORRECTIVE ACTION PLAN  
trim/remove trees as needed

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## CIRCUIT #18:

1. SUBSTATION NAME AND NUMBER  
Hinkle 53
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)  
Knox, KY1304, Bimble
3. CIRCUIT NAME AND NUMBER  
Road Fork 1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)  
Bimble, KY1304, KY223, Road Fork
5. TOTAL CIRCUIT LENGTH (MILES)  
43
6. CUSTOMER COUNT FOR THIS CIRCUIT  
391
- 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  
unk 56%, bad r/w 1%, on r/w tree 24%, off r/w tree 1%, storm 2%, eq fail 5%, vehicle accident 10%
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)  
72.05
10. REPORTING YEAR (SAIDI)  
96.668
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)  
3.18
12. REPORTING YEAR (SAIFI)  
1.86
13. CORRECTIVE ACTION PLAN  
trim/remove trees as needed

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #20:

1. SUBSTATION NAME AND NUMBER

Hinkle 53

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Knox, KY1304, Bimble

3. CIRCUIT NAME AND NUMBER

Road Fork 3

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

Artemus, KY225, Artemus, Trospen

5. TOTAL CIRCUIT LENGTH (MILES)

68.6

6. CUSTOMER COUNT FOR THIS CIRCUIT

454

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

unk 10%, on r/w tree 88%, off r/w tree 1%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

248.57

10. REPORTING YEAR (SAIDI)

621.713

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

3.73

12. REPORTING YEAR (SAIFI)

3.07

13. CORRECTIVE ACTION PLAN

trim/remove trees as needed

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #22:

1. SUBSTATION NAME AND NUMBER  
Oven Fork 64
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)  
Letcher, US119, Oven Fork
3. CIRCUIT NAME AND NUMBER  
Partridge 1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)  
Partridge, US119
5. TOTAL CIRCUIT LENGTH (MILES)  
47.1
6. CUSTOMER COUNT FOR THIS CIRCUIT  
470
- 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  
unk 2%, bad r/w 1%, off r/w tree 58%, eq fail 38%
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)  
87.93
10. REPORTING YEAR (SAIDI)  
96.468
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)  
2.55
12. REPORTING YEAR (SAIFI)  
0.75
13. CORRECTIVE ACTION PLAN  
trim/remove trees as needed

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## CIRCUIT #24:

1. SUBSTATION NAME AND NUMBER

Rockhold 22

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Whitley, KY3423, Rockhold

3. CIRCUIT NAME AND NUMBER

Meadow Creek 2

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

Rockhold, KY3423, KY779, KY1064, Meadow Creek

5. TOTAL CIRCUIT LENGTH (MILES)

61.5

6. CUSTOMER COUNT FOR THIS CIRCUIT

386

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

unk 53%, power supply 1%, sm animal 13%, on r/w tree 26%, off r/w tree 2%, eq fail 1%, vehicle accident 3%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

99.53

10. REPORTING YEAR (SAIDI)

115.809

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

4.24

12. REPORTING YEAR (SAIFI)

1.88

13. CORRECTIVE ACTION PLAN

majority of outage cause is unknown, trim/remove trees as identified, install animal protection where needed

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## CIRCUIT #26:

1. SUBSTATION NAME AND NUMBER

South Corbin 45

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Whitley, Corinth Ch Rd, Corbin

3. CIRCUIT NAME AND NUMBER

High Top 2

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

Corbin, US25W,High Top Rd

5. TOTAL CIRCUIT LENGTH (MILES)

50.3

6. CUSTOMER COUNT FOR THIS CIRCUIT

649

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

power supply 14%, sm animal 5%, storm 2%, eq fail 76%, lightning 1%, unk 1%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

91.04

10. REPORTING YEAR (SAIDI)

191.879

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

3.85

12. REPORTING YEAR (SAIFI)

2.06

13. CORRECTIVE ACTION PLAN

76% equip failure is believed attributable to power supply equipment beyond control of cooperative.

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## CIRCUIT #28:

1. SUBSTATION NAME AND NUMBER

South Corbin 45

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Whitley, Corinth Ch Rd, Corbin

3. CIRCUIT NAME AND NUMBER

I 75/S Corbin 5

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

Corbin, US25W, Exit 25

5. TOTAL CIRCUIT LENGTH (MILES)

11.6

6. CUSTOMER COUNT FOR THIS CIRCUIT

170

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

power supply 67%, sm animal 27%, storm 1%, lightning 4%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

38.15

10. REPORTING YEAR (SAIDI)

67.767

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

3.44

12. REPORTING YEAR (SAIFI)

2.22

13. CORRECTIVE ACTION PLAN

power supply beyond cooperative control. Install animal protection where needed.

# KENTUCKY PUBLIC SERVICE COMMISSION

## SECTION 5: CIRCUIT REPORTING

**CIRCUIT**

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

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

**CIRCUIT #2:**

<p>1. SUBSTATION NAME AND NUMBER Bacon Creek                    87</p> <p>2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Whitley    Bacon Crk Rd            Corbin</p> <p>3. CIRCUIT NAME AND NUMBER Hospital                    2</p> <p>4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Baptist Regional Med Ctr</p> <p>5. TOTAL CIRCUIT LENGTH (MILES) 1.14</p> <p>6. CUSTOMER COUNT FOR THIS CIRCUIT 1</p> <p>7.. DATE OF LAST CIRCUIT TRIM (VM) 2013</p> <p>8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE failed URD cable 100%</p> <p>9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 73</p> <p>10. REPORTING YEAR (SAIDI) 219</p> <p>11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1</p> <p>12. REPORTING YEAR (SAIFI) 1</p> <p>13. CORRECTIVE ACTION PLAN Inspect facilities for deficiencies, repair/replace as needed.</p>	<p>1. SUBST/ Carpenter</p> <p>2. SUBST/ Whitley</p> <p>3. CIRCUIT Greasy Cr</p> <p>4. CIRCUIT Siler, KY92</p> <p>5. TOTAL 80.9</p> <p>6. CUSTO 1557</p> <p>7.. DATE C 2013</p> <p>8. LIST OI NUMBE</p> <p>sm animal:</p> <p>9. CIRCUI 60.69</p> <p>10. REPOI</p> <p>11. CIRCU 135.818</p> <p>1.74</p> <p>12. REPOI 1.26</p> <p>13. CORR Installation</p>
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# KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #3:	CIRCUIT #3:
<p>1. SUBSTATION NAME AND NUMBER Bacon Creek                    87</p>	<p>1. SUBSTATION NAME AND NUMBER Carpenter</p>
<p>2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Whitley    Bacon Crk Rd            Corbin</p>	<p>2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Whitley</p>
<p>3. CIRCUIT NAME AND NUMBER Scuffletown                    3</p>	<p>3. CIRCUIT NAME AND NUMBER Williamsburg</p>
<p>4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) S Corbin, US 25W, Scuffletown Rd</p>	<p>4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) KY92, Gatliff</p>
<p>5. TOTAL CIRCUIT LENGTH (MILES) 12.6</p>	<p>5. TOTAL CIRCUIT LENGTH (MILES) 146</p>
<p>6. CUSTOMER COUNT FOR THIS CIRCUIT 125</p>	<p>6. CUSTOMER COUNT FOR THIS CIRCUIT 1127</p>
<p>7.. DATE OF LAST CIRCUIT TRIM (VM) 2013</p>	<p>7.. DATE OF LAST CIRCUIT TRIM (VM) 2013</p>
<p>8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE power supplier 3%, on R/W tree 67%, equipment failure 30%</p>	<p>8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE power supplier 3%, on R/W tree 67%, equipment failure 30%</p>
<p>9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 15.98</p>	<p>9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 101.54</p>
<p>10. REPORTING YEAR (SAIDI) 34.99</p>	<p>10. REPORTING YEAR (SAIDI) 107.931</p>
<p>11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.68</p>	<p>11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 3.79</p>
<p>12. REPORTING YEAR (SAIFI) 0.35</p>	<p>12. REPORTING YEAR (SAIFI) 1.1</p>
<p>13. CORRECTIVE ACTION PLAN Spot trim trees as needed.</p>	<p>13. CORRECTIVE ACTION PLAN trim or remove trees as needed.</p>

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CIRCUIT #6:	CIRCUIT #6:
1. SUBSTATION NAME AND NUMBER Chad 103	1. SUBSTATION NAME AND NUMBER Cumberland
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Harlan KY522 Chad	2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Whitley
3. CIRCUIT NAME AND NUMBER Line Fork 1	3. CIRCUIT NAME AND NUMBER Corbin
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) KY160, Gordon, Kingdom Come School	4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) S Corbin, L
5. TOTAL CIRCUIT LENGTH (MILES) 18.1	5. TOTAL CIRCUIT LENGTH (MILES) 67.9
6. CUSTOMER COUNT FOR THIS CIRCUIT 214	6. CUSTOMER COUNT FOR THIS CIRCUIT 1388
7.. DATE OF LAST CIRCUIT TRIM (VM) 2012	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 unknown 10%, bad r/w 3%, on r/w tree 41%, off r/w tree 29%, equip fail 17%	8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE planned cc
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 190.54	9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 20.85
10. REPORTING YEAR (SAIDI) 305.28	10. REPORTING YEAR (SAIDI) 50.774
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 4.25	11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.87
12. REPORTING YEAR (SAIFI) 2.15	12. REPORTING YEAR (SAIFI) 0.67
13. CORRECTIVE ACTION PLAN trim/remove trees as needed	13. CORRECTIVE ACTION PLAN

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CIRCUIT #8:	CIRCUIT #8:
1. SUBSTATION NAME AND NUMBER Cumberland Falls            26	1. SUBSTATION NAME AND NUMBER Cumberland Falls            26
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Whitley    US25W                    Corbin	2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Whitley    US25W                    Corbin
3. CIRCUIT NAME AND NUMBER Corbin                                    1	3. CIRCUIT NAME AND NUMBER Corbin                                    1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) S Corbin, US25W, KY511	4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) S Corbin, US25W, KY511
5. TOTAL CIRCUIT LENGTH (MILES) 67.9	5. TOTAL CIRCUIT LENGTH (MILES) 67.9
6. CUSTOMER COUNT FOR THIS CIRCUIT 1388	6. CUSTOMER COUNT FOR THIS CIRCUIT 1388
7. DATE OF LAST CIRCUIT TRIM (VM) 2013	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 planned const 1%, sm animals 2%, on r/w tree 2%, off r/w tree 69%, storm 3%, eq fail 12%, vehicle	8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE planned const 1%, sm animals 2%, on r/w tree 2%, off r/w tree 69%, storm 3%, eq fail 12%, vehicle
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 20.85	9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 20.85
10. REPORTING YEAR (SAIDI) 50.774	10. REPORTING YEAR (SAIDI) 50.774
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.87	11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.87
12. REPORTING YEAR (SAIFI) 0.67	12. REPORTING YEAR (SAIFI) 0.67
13. CORRECTIVE ACTION PLAN trim/remove trees as deemed necessary	13. CORRECTIVE ACTION PLAN trim/remove trees as deemed necessary

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #8:

1. SUBSTATION NAME AND NUMBER  
Cumberland Falls            26
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)  
Whitley    US25W                    Corbin
3. CIRCUIT NAME AND NUMBER  
Devils Crk                            4
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)  
Devils Crk, Frankfort School
5. TOTAL CIRCUIT LENGTH (MILES)  
32.4
6. CUSTOMER COUNT FOR THIS CIRCUIT  
353
- 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  
sm animals30%, on r/w tree 30%, off r/w tree 12%, lightning 37%, eq fail 3%, unk 7%, storm 6%
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)  
54.88
10. REPORTING YEAR (SAIDI)  
146.883
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)  
2.4
12. REPORTING YEAR (SAIFI)  
2.07
13. CORRECTIVE ACTION PLAN  
trim/remove trees as needed, install varmint guard, inspect/replace arrestors as needed

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #11:

1. SUBSTATION NAME AND NUMBER  
Emanuel 21
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)  
Knox, KY229, Bailey Switch
3. CIRCUIT NAME AND NUMBER  
Knox Fork 3
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)  
KY229, Knox Fork
5. TOTAL CIRCUIT LENGTH (MILES)  
30
6. CUSTOMER COUNT FOR THIS CIRCUIT  
369
- 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  
unknown 24%, sm animal 2%, on r/w tree 67%, off r/w tree 4%, vehicle accident 2%
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)  
22.79
10. REPORTING YEAR (SAIDI)  
38.38
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)  
1.43
12. REPORTING YEAR (SAIFI)  
0.57
13. CORRECTIVE ACTION PLAN  
trim/remove trees as needed

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #13:

1. SUBSTATION NAME AND NUMBER  
Girdler 106
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)  
Knox, Hampton Cemetery, Girdler
3. CIRCUIT NAME AND NUMBER  
Girdler 2
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)  
Girdler, KY11, KY1304, Calebs Crk
5. TOTAL CIRCUIT LENGTH (MILES)  
33.6
6. CUSTOMER COUNT FOR THIS CIRCUIT  
554
- 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  
unk 8%, sm animal 3%, on r/w tree 8%, off r/w tree 2%, eq fail 79%
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)  
30.56
10. REPORTING YEAR (SAIDI)  
47.899
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)  
1.95
12. REPORTING YEAR (SAIFI)  
0.86
13. CORRECTIVE ACTION PLAN  
inspect facilities for deficiencies

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #15:

1. SUBSTATION NAME AND NUMBER  
Girdler 106
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)  
Knox, Hampton Cemetery, Girdler
3. CIRCUIT NAME AND NUMBER  
Hughs Hill 4
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)  
Girdler, KY11, Hughs Hill
5. TOTAL CIRCUIT LENGTH (MILES)  
14.6
6. CUSTOMER COUNT FOR THIS CIRCUIT  
168
- 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  
unk 33%, on r/w tree 26%, eq fail 41%
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)  
57.33
10. REPORTING YEAR (SAIDI)  
141.357
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)  
2.94
12. REPORTING YEAR (SAIFI)  
1.91
13. CORRECTIVE ACTION PLAN  
trim/removed trees as needed, inspect facilities for deficiencies

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #17:

1. SUBSTATION NAME AND NUMBER

Goldbug 64

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Whitley, US25W, Goldbug

3. CIRCUIT NAME AND NUMBER

Three Point/Croley Bt 3

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

Three Point/Croley Bend, US25W

5. TOTAL CIRCUIT LENGTH (MILES)

20.6

6. CUSTOMER COUNT FOR THIS CIRCUIT

117

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

bad r/w 2%, sm animal 55%, on r/w tree 3%, eq fail 28%, unk 11%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

95.26

10. REPORTING YEAR (SAIDI)

246.961

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

4.91

12. REPORTING YEAR (SAIFI)

4.03

13. CORRECTIVE ACTION PLAN

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #19:

1. SUBSTATION NAME AND NUMBER

Hinkle 53

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Knox, KY1304, Bimble

3. CIRCUIT NAME AND NUMBER

Shy Mug 2

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

Bimble, KY1304, Shy Mug

5. TOTAL CIRCUIT LENGTH (MILES)

25.2

6. CUSTOMER COUNT FOR THIS CIRCUIT

189

7.. DATE OF LAST CIRCUIT TRIM (VM)

2013

8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE I

NUMBERS REPRESENTED BY EACH CAUSE

unk 69%, power supply 13%, sm animal 2%, on r/w tree 16%,

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

111.92

10. REPORTING YEAR (SAIDI)

208.102

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

2.24

12. REPORTING YEAR (SAIFI)

1.5

13. CORRECTIVE ACTION PLAN

no plan - majority of outages have unknown cause

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #21:

1. SUBSTATION NAME AND NUMBER  
Liberty Church 107
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)  
Knox, KY3436, Liberty Church
3. CIRCUIT NAME AND NUMBER  
Bill Smith Post Mill 3
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)  
KY3436
5. TOTAL CIRCUIT LENGTH (MILES)  
0.5
6. CUSTOMER COUNT FOR THIS CIRCUIT  
1
- 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  
on r/w tree 100%
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)  
3642.5
10. REPORTING YEAR (SAIDI)  
10927.5
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)  
77.5
12. REPORTING YEAR (SAIFI)  
77.5
13. CORRECTIVE ACTION PLAN  
no plan. This ckt, for most of reporting year, was only half mile long. Late during reporting year ckt was enlarged with load from another ckt on same sub.

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #23:

1. SUBSTATION NAME AND NUMBER  
Rockhold 22
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)  
Whitley, KY3423, Rockhold
3. CIRCUIT NAME AND NUMBER  
Woodbine 1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)  
Faber, KY26, Woodbine
5. TOTAL CIRCUIT LENGTH (MILES)  
66.7
6. CUSTOMER COUNT FOR THIS CIRCUIT  
579
- 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  
unk 6%, overload 84%, bad r/w 2%, sm animal 1%, on r/w tree 4%, public cut tree 2%,
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)  
121.71
10. REPORTING YEAR (SAIDI)  
136.936
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)  
3.36
12. REPORTING YEAR (SAIFI)  
1.27
13. CORRECTIVE ACTION PLAN  
validity of 84% overload outage cause is questionable. Plan is to review data and monitor ckt.

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #25:

1. SUBSTATION NAME AND NUMBER  
South Corbin 45
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)  
Whitley, Corinth Ch Rd, Corbin
3. CIRCUIT NAME AND NUMBER  
Tattersall 1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)  
Corbin, KY727, Riva Ridge Trl, Tattersall Subd
5. TOTAL CIRCUIT LENGTH (MILES)  
22
6. CUSTOMER COUNT FOR THIS CIRCUIT  
314
- 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  
power supply 2%, sm animal 22%, storm 74%
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)  
79.35
10. REPORTING YEAR (SAIDI)  
125.773
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)  
7.02
12. REPORTING YEAR (SAIFI)  
2.86
13. CORRECTIVE ACTION PLAN  
install animal protection where needed

# KENTUCKY PUBLIC SERVICE COMMISSION

## CIRCUIT #27:

1. SUBSTATION NAME AND NUMBER

South Corbin 45

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Whitley, Corinth Ch Rd, Corbin

3. CIRCUIT NAME AND NUMBER

312 4

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

Corbin, KY727, KY312

5. TOTAL CIRCUIT LENGTH (MILES)

54.3

6. CUSTOMER COUNT FOR THIS CIRCUIT

721

7.. DATE OF LAST CIRCUIT TRIM (VM)

2012

8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE I

NUMBERS REPRESENTED BY EACH CAUSE

unk 4%, power supply 25%, sm animal 14%, bad urd primary 11%, eq fail 10%, vehicle accident 31%, lightnir

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

57.41

10. REPORTING YEAR (SAIDI)

66.97

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

1.65

12. REPORTING YEAR (SAIFI)

0.83

13. CORRECTIVE ACTION PLAN

equip failure & bad URD are likely attributable to Laurel Bridge Rec Area cable failures owned by US Forest Svc. USFS plans to replace URD system. Install animal protection where needed

# KENTUCKY PUBLIC SERVICE COMMISSION

# KENTUCKY PUBLIC SERVICE COMMISSION

## JIT #4:

STATION NAME AND NUMBER

85

STATION LOCATION (COUNTY-ROAD-TOWN)

KY92E Carpenter

TRANSFORMER NAME AND NUMBER

2

TRANSFORMER LOCATION (TOWN-ROAD-GENERAL AREA)

2E, Greasy Creek

CIRCUIT LENGTH (MILES)

NUMBER OF TRANSFORMERS FOR THIS CIRCUIT

DATE OF LAST CIRCUIT TRIM (VM)

OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE HOURS

REPRESENTED BY EACH CAUSE

Storm 52%, tree on R/W 5%, tree off R/W 6%, storm 52%, equip fail 1%, unknown 9%

SAIDI 5 YEAR AVERAGE (SAIDI)

REPORTING YEAR (SAIDI)

SAIFI 5 YEAR AVERAGE (SAIFI)

REPORTING YEAR (SAIFI)

EFFECTIVE ACTION PLAN

Installation of animal contact prevention devices is ongoing across system. Spot trim trees and danger tree removal as needed.

# KENTUCKY PUBLIC SERVICE COMMISSION

JIT #5:

STATION NAME AND NUMBER

85

STATION LOCATION (COUNTY-ROAD-TOWN)

KY92E Carpenter

TRANSFORMER NAME AND NUMBER

10003

TRANSFORMER LOCATION (TOWN-ROAD-GENERAL AREA)

Cliff, Loudon, Whetstone, Nevisdale

CIRCUIT LENGTH (MILES)

NUMBER OF TRANSFORMERS FOR THIS CIRCUIT

DATE OF LAST CIRCUIT TRIM (VM)

OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE HOURS

REPRESENTED BY EACH CAUSE

poor maintenance 7%, overload 10%, planned const 7%, planned maint 3%, on R/W tree 58%, storm 1%, lightning 1%, unknown 1%

PERCENTAGE OF TOTAL OUTAGE HOURS (SAIDI)

REPORTING YEAR (SAIDI)

PERCENTAGE OF TOTAL OUTAGE HOURS (SAIFI)

REPORTING YEAR (SAIFI)

RECOMMENDED ACTION PLAN

trim trees as needed

# KENTUCKY PUBLIC SERVICE COMMISSION

JIT #8:

STATION NAME AND NUMBER

Old Falls 26

STATION LOCATION (COUNTY-ROAD-TOWN)

US25W Corbin

STREET NAME AND NUMBER

1

STREET LOCATION (TOWN-ROAD-GENERAL AREA)

JS25W, KY511

CIRCUIT LENGTH (MILES)

NUMBER OF PHASES FOR THIS CIRCUIT

DATE OF LAST CIRCUIT TRIM (VM)

OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE HOURS

REPRESENTED BY EACH CAUSE

Wrestling 1%, small animals 2%, on r/w tree 2%, off r/w tree 69%, storm 3%, eq fail 12%, vehicle 9%, unk 2%

DATE OF 5 YEAR AVERAGE (SAIDI)

REPORTING YEAR (SAIDI)

DATE OF 5 YEAR AVERAGE (SAIFI)

REPORTING YEAR (SAIFI)

PROPOSED ACTION PLAN

# KENTUCKY PUBLIC SERVICE COMMISSION

**JIT #8:**

STATION NAME AND NUMBER

Old Falls 26

STATION LOCATION (COUNTY-ROAD-TOWN)

US25W Corbin

TRANSFORMER NAME AND NUMBER

Is 2

TRANSFORMER LOCATION (TOWN-ROAD-GENERAL AREA)

SRP, US25W

CIRCUIT LENGTH (MILES)

NUMBER OF TRANSFORMERS FOR THIS CIRCUIT

DATE OF LAST CIRCUIT TRIM (VM)

OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE HOURS REPRESENTED BY EACH CAUSE

Is 13%, on r/w tree 30%, off r/w tree 12%, lightning 38%, eq fail 2%, unk 4%

SAIDI 5 YEAR AVERAGE (SAIDI)

SAIDI REPORTING YEAR (SAIDI)

SAIFI 5 YEAR AVERAGE (SAIFI)

SAIFI REPORTING YEAR (SAIFI)

EFFECTIVE ACTION PLAN

trim trees as needed, inspect arrestors

**KENTUCKY PUBLIC SERVICE COMMISSION**

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