

KENTUCKY PUBLIC SERVICE COMMISSION

RECEIVED

APR 06 2018

Electric Distribution Utility Annual Reliability Report

PUBLIC SERVICE
COMMISSION

SECTION 1: CONTACT INFORMATION

UTILITY NAME	Cumberland Valley Electric
REPORT PREPARED BY	Jonathan Grove, Mark Abner, Steve Hamptor
E-MAIL ADDRESS OF PREPARER	<u>jonathan.grove@cumberlandvalley.coop</u>
PHONE NUMBER OF PREPARER	<u>606.528.2677 x320</u>

SECTION 2: REPORTING YEAR

CALENDAR YEAR OF REPORT	<u>2017</u>
-------------------------	-------------

SECTION 3: MAJOR EVENT DAYS (MED)

T_{MED}	<u>17.271</u>
FIRST DATE USED TO DETERMINE T_{MED}	<u>1/2/2013</u>
LAST DATE USED TO DETERMINE T_{MED}	<u>12/31/2017</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	<u>23,797</u>	TOTAL CIRCUITS	<u>52</u>
-----------------	---------------	----------------	-----------

Excluding MED

	5 YEAR AVERAGE		REPORTING YEAR
SAIDI	<u>111.00</u>	SAIDI	<u>157.3</u>
SAIFI	<u>1.051</u>	SAIFI	<u>1.28</u>

Including MED

	5 YEAR AVERAGE		REPORTING YEAR
SAIDI	<u>297.5</u>	SAIDI	<u>180.5</u>
SAIFI	<u>1.872</u>	SAIFI	<u>1.359</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}

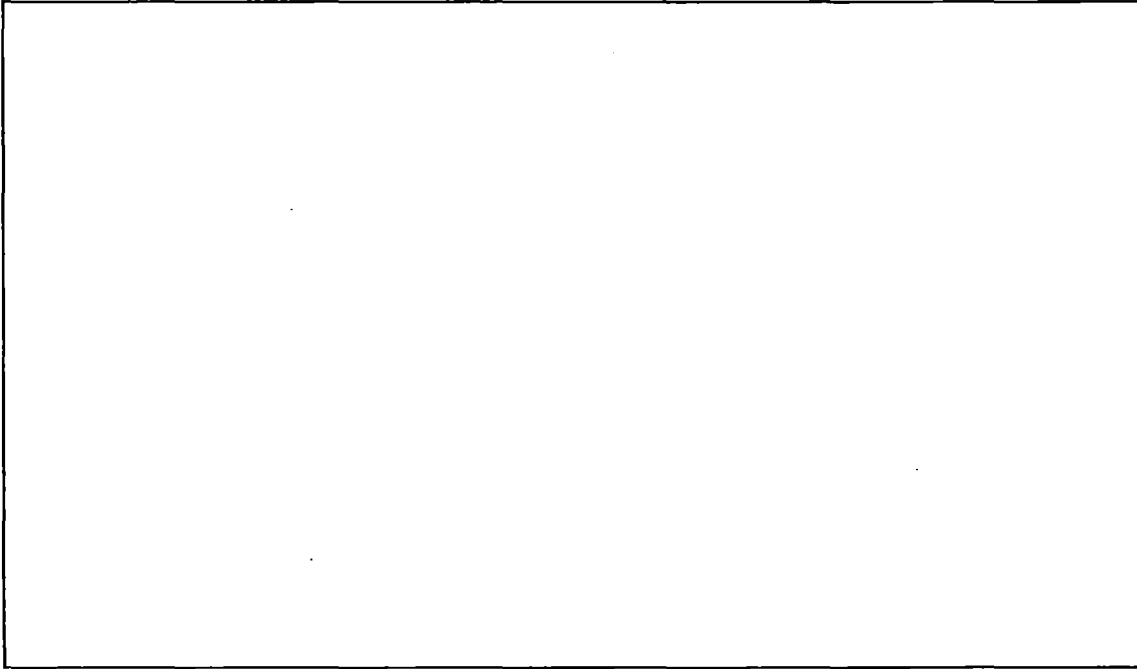
KENTUCKY PUBLIC SERVICE COMMISSION

KENTUCKY PUBLIC SERVICE COMMISSION

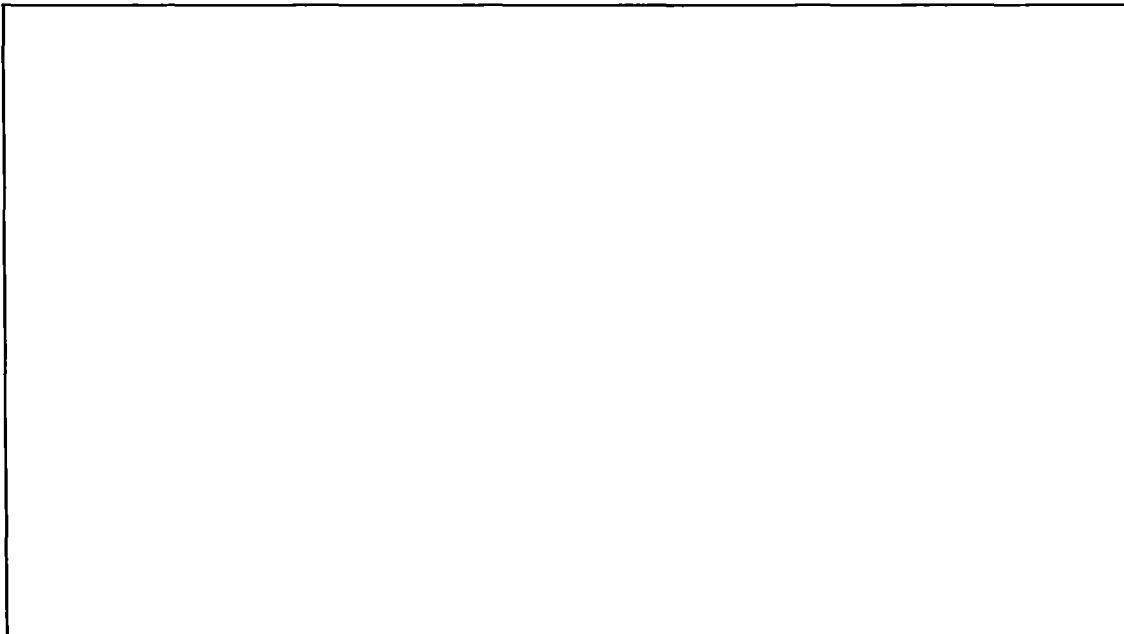
SECTION 6: VEGETATION MANAGEMENT PLAN REVIEW

INCLUDE CURRENT VEGETATION MANAGEMENT PLAN

Additional page may be attached as needed.

A large, empty rectangular box with a black border, intended for the current vegetation management plan review.

SECTION 7: UTILITY COMMENTS

A large, empty rectangular box with a black border, intended for utility comments.

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
Alex Creek (110)
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Knox County, Alex Creek Road, Mills
3. CIRCUIT NAME AND NUMBER
Stinking Creek, 01
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Mills KY, Big Creek, Road Fork
5. TOTAL CIRCUIT LENGTH (MILES)
62.6 mi
6. CUSTOMER COUNT FOR THIS CIRCUIT
572
- 7.. DATE OF LAST CIRCUIT TRIM (VM)
2014
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMI
NUMBERS REPRESENTED BY EACH CAUSE
CVE's OMS system does not permit reporting at this level currently. NISC is working on it.
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
75.661
10. REPORTING YEAR (SAIDI)
72.425
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.583
12. REPORTING YEAR (SAIFI)
0.916
13. CORRECTIVE ACTION PLAN
Although the numbers compared to the five average indicate an icrease in outages, no increase was observed. The numbers were inflated due to tighter reporting standards and adoption of OMS. Circuit will be line patrolled for problems in 2018.

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

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
Bacon Creek (87)
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Whitley County, US 25W, Corbin
3. CIRCUIT NAME AND NUMBER
I-75, 01
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Corbin, US 25W, Corbin
5. TOTAL CIRCUIT LENGTH (MILES)
3.4
6. CUSTOMER COUNT FOR THIS CIRCUIT
40
- 7.. DATE OF LAST CIRCUIT TRIM (VM)
2013
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMI
NUMBERS REPRESENTED BY EACH CAUSE
CVE's OMS system does not permit reporting at this level currently. NISC is working on it.
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
37.865
10. REPORTING YEAR (SAIDI)
185.158
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.025
12. REPORTING YEAR (SAIFI)
0.025
13. CORRECTIVE ACTION PLAN
Circuit is to be cleared by Right of Way in 2018.

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

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
Bacon Creek (87)
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Whitley County, US 25W, Corbin
3. CIRCUIT NAME AND NUMBER
Scuffletown, 03
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Corbin, US 25W, Corbin Hospital
5. TOTAL CIRCUIT LENGTH (MILES)
7.2
6. CUSTOMER COUNT FOR THIS CIRCUIT
126
- 7.. DATE OF LAST CIRCUIT TRIM (VM)
2013
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMI
NUMBERS REPRESENTED BY EACH CAUSE
CVE's OMS system does not permit reporting at this level currently. NISC is working on it.
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
37.257
10. REPORTING YEAR (SAIDI)
109.075
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.396
12. REPORTING YEAR (SAIFI)
0.659
13. CORRECTIVE ACTION PLAN
Although the numbers compared to the five average indicate an icrease in outages, no increase was observed. The numbers were inflated due to tighter reporting standards and adoption of OMS. Circuit isto be cleared by Right of Way in 2018.

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

SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #4:

1. SUBSTATION NAME AND NUMBER
Carpenter (85)
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Whitley County, KY92, Carpenter
3. CIRCUIT NAME AND NUMBER
Greasy Creek/Bryants Store, 02
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Bryants Store, KY1809/KY92, S Knox Co/E Whitley Co, S Bell Co
5. TOTAL CIRCUIT LENGTH (MILES)
55.2
6. CUSTOMER COUNT FOR THIS CIRCUIT
978
- 7.. DATE OF LAST CIRCUIT TRIM (VM)
2013
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMI
NUMBERS REPRESENTED BY EACH CAUSE
CVE's OMS system does not permit reporting at this level currently. NISC is working on it.
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
141.621
10. REPORTING YEAR (SAIDI)
167.879
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
1.35
12. REPORTING YEAR (SAIFI)
1.501
13. CORRECTIVE ACTION PLAN
Increase in outage over 5 year average due to difficulties with power supplier.
East Kentucky Power has been contacted with regard to this issue.
Circuit is to be bush hogged in 2018.

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

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
Carpenter (85)
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Whitley County, KY92, Carpenter
3. CIRCUIT NAME AND NUMBER
Williamsburg, 03
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Yaden/Nevisdale, KY92/KY904, S Whitley Co
5. TOTAL CIRCUIT LENGTH (MILES)
102.9
6. CUSTOMER COUNT FOR THIS CIRCUIT
1011
7. DATE OF LAST CIRCUIT TRIM (VM)
2013
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMI
NUMBERS REPRESENTED BY EACH CAUSE
CVE's OMS system does not permit reporting at this level currently. NISC is working on it.
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
123.364
10. REPORTING YEAR (SAIDI)
232.766
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
1.528
12. REPORTING YEAR (SAIFI)
3.557
13. CORRECTIVE ACTION PLAN
Increase in outage over 5 year average due to difficulties with power supplier.
East Kentucky Power has been contacted with regard to this issue.

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

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
Chad (103)
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Harlan, KY522, Chad
3. CIRCUIT NAME AND NUMBER
Kingdom Come School, 01
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Gordon, KY160, SW Letcher Co
5. TOTAL CIRCUIT LENGTH (MILES)
12.7
6. CUSTOMER COUNT FOR THIS CIRCUIT
135
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
CVE's OMS system does not permit reporting at this level currently. NISC is working on it.
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
328.064
10. REPORTING YEAR (SAIDI)
298.161
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
2.526
12. REPORTING YEAR (SAIFI)
2.963
13. CORRECTIVE ACTION PLAN
Although the numbers compared to the five average indicate an increase in outages, no increase was observed. The numbers were inflated due to tighter reporting standards and adoption of OMS. Circuit is to be cleared by Right of Way in 2018.

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

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
Chad (103)
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Harlan, KY522, Chad
3. CIRCUIT NAME AND NUMBER
Blair, 03
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Blair, US119, NE Harlan Co
5. TOTAL CIRCUIT LENGTH (MILES)
11.1
6. CUSTOMER COUNT FOR THIS CIRCUIT
153
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
CVE's OMS system does not permit reporting at this level currently. NISC is working on it.
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
207.061
10. REPORTING YEAR (SAIDI)
684.195
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
2.869
12. REPORTING YEAR (SAIFI)
11.007
13. CORRECTIVE ACTION PLAN
Although the numbers compared to the five average indicate an increase in outages, no increase was observed. The numbers were inflated due to tighter reporting standards and adoption of OMS. Circuit is to be cleared by Right of Way in 2018.

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

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
Cumberland Falls (26)
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Whitley, US25W, Frankfort School
3. CIRCUIT NAME AND NUMBER
Oak Grove, 01
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Oak Grove, US25W, N central Whitley Co
5. TOTAL CIRCUIT LENGTH (MILES)
44.7
6. CUSTOMER COUNT FOR THIS CIRCUIT
628
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
CVE's OMS system does not permit reporting at this level currently. NISC is working on it.
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
66.83
10. REPORTING YEAR (SAIDI)
166.658
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.68
12. REPORTING YEAR (SAIFI)
0.857
13. CORRECTIVE ACTION PLAN
Although the numbers compared to the five average indicate an increase in outages, no increase was observed. The numbers were inflated due to tighter reporting standards and adoption of OMS. Yard trees to be trimmed in 2018.

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

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
Cumberland Falls (26)
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Whitley, US25W, Frankfort School
3. CIRCUIT NAME AND NUMBER
Devils Creek, 04
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Devils Creek, US25W, NW Whitley Co
5. TOTAL CIRCUIT LENGTH (MILES)
21.1
6. CUSTOMER COUNT FOR THIS CIRCUIT
657
- 7.. DATE OF LAST CIRCUIT TRIM (VM)
2016
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMI
NUMBERS REPRESENTED BY EACH CAUSE
CVE's OMS system does not permit reporting at this level currently. NISC is working on it.
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
55.977
10. REPORTING YEAR (SAIDI)
63.145
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.625
12. REPORTING YEAR (SAIFI)
0.685
13. CORRECTIVE ACTION PLAN
Yard trees to be trimmed in 2018.

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

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

Emanuel (21)

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Knox, KY229, Jarvis

3. CIRCUIT NAME AND NUMBER

Swan Pond, 01

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

Baily Switch/Swan Pond, US25E/KY11, Baily Switch/Sharps Gap/Swan Pond

5. TOTAL CIRCUIT LENGTH (MILES)

52.3

6. CUSTOMER COUNT FOR THIS CIRCUIT

832

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

CVE's OMS system does not permit reporting at this level currently. NISC is working on it.

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

217.595

10. REPORTING YEAR (SAIDI)

278.865

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

2.827

12. REPORTING YEAR (SAIFI)

1.543

13. CORRECTIVE ACTION PLAN

Although the numbers compared to the five average indicate an increase in outages, no increase was observed. The numbers were inflated due to tighter reporting standards and adoption of OMS. Circuit will be line patrolled for problems in 2018.

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

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

Emanual (21)

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Knox, KY229, Jarvis

3. CIRCUIT NAME AND NUMBER

Cannon, 02

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

Cannon, KY3438/KY11, central Knox Co

5. TOTAL CIRCUIT LENGTH (MILES)

14.96

6. CUSTOMER COUNT FOR THIS CIRCUIT

329

7.. DATE OF LAST CIRCUIT TRIM (VM)

2017

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

CVE's OMS system does not permit reporting at this level currently. NISC is working on it.

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

51.922

10. REPORTING YEAR (SAIDI)

89.39

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.905

12. REPORTING YEAR (SAIFI)

1.179

13. CORRECTIVE ACTION PLAN

Although the numbers compared to the five average indicate an increase in outages, no increase was observed. The numbers were inflated due to tighter reporting standards and adoption of OMS. Circuit will be line patrolled for problems in 2018.

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

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
Emanual (21)
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Knox, KY229, Jarvis
3. CIRCUIT NAME AND NUMBER
Knox Fork, 03
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Jarvis, KY229, N Knox Co
5. TOTAL CIRCUIT LENGTH (MILES)
21.1
6. CUSTOMER COUNT FOR THIS CIRCUIT
329
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
CVE's OMS system does not permit reporting at this level currently. NISC is working on it.
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
128.247
10. REPORTING YEAR (SAIDI)
525.256
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.997
12. REPORTING YEAR (SAIFI)
2.604
13. CORRECTIVE ACTION PLAN
Although the numbers compared to the five average indicate an increase in outages, no increase was observed. The numbers were inflated due to tighter reporting standards and adoption of OMS. Circuit will be line patrolled for problems in 2018.

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

SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #13:

1. SUBSTATION NAME AND NUMBER
Emanual (21)
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Knox, KY229, Jarvis
3. CIRCUIT NAME AND NUMBER
CVE Office, 04
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Gray/Rossland, US25E, W Knox Co
5. TOTAL CIRCUIT LENGTH (MILES)
71.4
6. CUSTOMER COUNT FOR THIS CIRCUIT
958
- 7.. DATE OF LAST CIRCUIT TRIM (VM)
2017
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMI
NUMBERS REPRESENTED BY EACH CAUSE
CVE's OMS system does not permit reporting at this level currently. NISC is working on it.
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
74.977
10. REPORTING YEAR (SAIDI)
82.02
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.887
12. REPORTING YEAR (SAIFI)
0.386
13. CORRECTIVE ACTION PLAN
Although the numbers compared to the five average indicate an icrease in outages, no increase was observed. The numbers were inflated due to tighter reporting standards and adoption of OMS. Circuit will be line patrolled for problems in 2018.

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

SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #14:

1. SUBSTATION NAME AND NUMBER
Girdler (106)
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Knox, Hampton Cemetery Rd, Girdler
3. CIRCUIT NAME AND NUMBER
Hughes Hill, 04
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Girdler, KY11, N central Knox Co
5. TOTAL CIRCUIT LENGTH (MILES)
12
6. CUSTOMER COUNT FOR THIS CIRCUIT
189
- 7.. DATE OF LAST CIRCUIT TRIM (VM)
2014
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMI
NUMBERS REPRESENTED BY EACH CAUSE
CVE's OMS system does not permit reporting at this level currently. NISC is working on it.
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
59.744
10. REPORTING YEAR (SAIDI)
63.837
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.944
12. REPORTING YEAR (SAIFI)
0.471
13. CORRECTIVE ACTION PLAN
Although the numbers compared to the five average indicate an icrease in outages, no increase was observed. The numbers were inflated due to tighter reporting standards and adoption of OMS. Circuit will be line patrolled for problems in 2018.

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

SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #15:

1. SUBSTATION NAME AND NUMBER
Hinkle (52)
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Knox, KY1304, Hinkle
3. CIRCUIT NAME AND NUMBER
Road Fork, 01
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Hinkle/Dewitt, KY1304/KY223, E Knox Co
5. TOTAL CIRCUIT LENGTH (MILES)
29
6. CUSTOMER COUNT FOR THIS CIRCUIT
347
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
CVE's OMS system does not permit reporting at this level currently. NISC is working on it.
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
74.778
10. REPORTING YEAR (SAIDI)
90.549
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
1.004
12. REPORTING YEAR (SAIFI)
0.865
13. CORRECTIVE ACTION PLAN
Although the numbers compared to the five average indicate an increase in outages, no increase was observed. The numbers were inflated due to tighter reporting standards and adoption of OMS. Circuit will be line patrolled for problems in 2018.

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

SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #16:

1. SUBSTATION NAME AND NUMBER
Hinkle (52)
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Knox, KY1304, Hinkle
3. CIRCUIT NAME AND NUMBER
Brush Creek, 03
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Artemus/Trosper, KY225, SE Knox Co
5. TOTAL CIRCUIT LENGTH (MILES)
49.4
6. CUSTOMER COUNT FOR THIS CIRCUIT
472
- 7.. DATE OF LAST CIRCUIT TRIM (VM)
2014
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMI
NUMBERS REPRESENTED BY EACH CAUSE
CVE's OMS system does not permit reporting at this level currently. NISC is working on it.
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
85.414
10. REPORTING YEAR (SAIDI)
63.639
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.829
12. REPORTING YEAR (SAIFI)
0.928
13. CORRECTIVE ACTION PLAN
Circuit will be line patrolled for problems in 2018.

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

SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #17:

1. SUBSTATION NAME AND NUMBER
Jellico Creek (41)
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Whitley, KY92, Jellico Creek
3. CIRCUIT NAME AND NUMBER
Alsile, 01
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Alsile/Ryans Creek, SW Whitley Co
5. TOTAL CIRCUIT LENGTH (MILES)
40.2
6. CUSTOMER COUNT FOR THIS CIRCUIT
246
- 7.. DATE OF LAST CIRCUIT TRIM (VM)
2014
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMI
NUMBERS REPRESENTED BY EACH CAUSE
CVE's OMS system does not permit reporting at this level currently. NISC is working on it.
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
128.928
10. REPORTING YEAR (SAIDI)
305.794
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
1.481
12. REPORTING YEAR (SAIFI)
1.134
13. CORRECTIVE ACTION PLAN
Although the numbers compared to the five average indicate an icrease in outages, no increase was observed. The numbers were inflated due to tighter reporting standards and adoption of OMS. Outages affected by station conversion in 2017 and work by EKP station conversion.

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

SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #18:

1. SUBSTATION NAME AND NUMBER
Jellico Creek (41)
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Whitley, KY92, Jellico Creek
3. CIRCUIT NAME AND NUMBER
Pine Knot, 02
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Pine Knot, KY92/KY1470KY592KY1044, SW Whitley Co/SE McCreary Co
5. TOTAL CIRCUIT LENGTH (MILES)
60.9
6. CUSTOMER COUNT FOR THIS CIRCUIT
476
- 7.. DATE OF LAST CIRCUIT TRIM (VM)
2014
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMI
NUMBERS REPRESENTED BY EACH CAUSE
CVE's OMS system does not permit reporting at this level currently. NISC is working on it.
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
263.839
10. REPORTING YEAR (SAIDI)
330.5
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
1.481
12. REPORTING YEAR (SAIFI)
1.134
13. CORRECTIVE ACTION PLAN
Although the numbers compared to the five average indicate an increase in outages, no increase was observed. The numbers were inflated due to tighter reporting standards and adoption of OMS. Outages affected by station conversion in 2017 and work by EKP station conversion.

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

SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #19:

1. SUBSTATION NAME AND NUMBER
Oven Fork (641)
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Letcher, US119, Oven Fork
3. CIRCUIT NAME AND NUMBER
Partridge, 01
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Partridge, US119, SW Letcher Co
5. TOTAL CIRCUIT LENGTH (MILES)
28.7
6. CUSTOMER COUNT FOR THIS CIRCUIT
471
- 7.. DATE OF LAST CIRCUIT TRIM (VM)
2013
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMI
NUMBERS REPRESENTED BY EACH CAUSE
CVE's OMS system does not permit reporting at this level currently. NISC is working on it.
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
164.659
10. REPORTING YEAR (SAIDI)
517.118
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
1.064
12. REPORTING YEAR (SAIFI)
2.437
13. CORRECTIVE ACTION PLAN
Right of Way and spray will be conducted in 2018.

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

SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #20:

1. SUBSTATION NAME AND NUMBER
South Corbin (45)
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Whitley, Corinth Church Rd, Corbin
3. CIRCUIT NAME AND NUMBER
West Corbin, 04
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Corbin, KY727/KY1259/KY3421, N Whitley Co
5. TOTAL CIRCUIT LENGTH (MILES)
32.8
6. CUSTOMER COUNT FOR THIS CIRCUIT
690
- 7.. DATE OF LAST CIRCUIT TRIM (VM)
2013
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMI
NUMBERS REPRESENTED BY EACH CAUSE
CVE's OMS system does not permit reporting at this level currently. NISC is working on it.
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
55.729
10. REPORTING YEAR (SAIDI)
32.65
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.573
12. REPORTING YEAR (SAIFI)
0.632
13. CORRECTIVE ACTION PLAN
Although the numbers compared to the five average indicate an increase in outages, no increase was observed. The numbers were inflated due to tighter reporting standards and adoption of OMS. Circuit will be line patrolled for problems in 2018.

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