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2/10/16

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Public Service Commission

Case No. 2011-00450

Director of Engineering Kentucky Public Service Commission 211 Sower Blvd P.O. Box 615 Frankfort, Ky 40602-0615

To Whom it May Concern,

Attached is the annual reliability report for 2015 for Meade County RECC. If you should have any questions or concerns, you may contact me at (270) 422-2162.

Sincerely,

David R. Poe, P.E.

Vice President of Operations & Engineering

Electric Distribution Utility Annual Reliability Report

SECTION 1: CONTACT INFORMATION

UTILITY NAME REPORT PREPARED BY E-MAIL ADDRESS OF PREPARER PHONE NUMBER OF PREPARER Meade County RECC
David Poe
dpoe@mcrecc.com
270-422-2162

SECTION 2: REPORTING YEAR

CALENDAR YEAR OF REPORT

2015

SECTION 3: MAJOR EVENT DAYS (MED)

 $${\rm T_{MED}}$$ FIRST DATE USED TO DETERMINE ${\rm T_{MED}}$ LAST DATE USED TO DETERMINE ${\rm T_{MED}}$ NUMBER OF MED IN REPORT YEAR

9.24 1/1/2010 12/31/2014

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 29261

TOTAL CIRCUITS

Excluding MED

| | 5 YEAR AVERAGE | | REPORTING YEAR |
|-------|----------------|-------|----------------|
| SAIDI | 90.96 | SAIDI | 107.89 |
| SAIFI | 1.24 | SAIFI | 1.21 |

Including MED

| | 5 YEAR AVERAGE | | REPORTING YEAR |
|-------|----------------|-------|----------------|
| SAIDI | 214.36 | SAIDI | 135.33 |
| SAIFI | 2.24 | SAIFI | 1.37 |

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_{MFD}

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

444

7. DATE OF LAST CIRCUIT TRIM (VM)

2014

8

| Cause | Count | Percentage | Customer-hours | Customers | SAIDI | SAIFI |
|------------------|-------|------------|----------------|-----------|--------|-------|
| Trees out of R/W | 4 | 19.05 | 965.23 | 732.00 | 130.44 | 1.65 |
| Line Hardware | 2 | 9.52 | 370.48 | 628.00 | 50.06 | 1.41 |
| Storms | 8 | 38.10 | 172.91 | 156.00 | 23.37 | 0.35 |
| Pre-Arranged | 3 | 14.29 | 68.97 | 46.00 | 9.32 | 0.10 |
| Birds/Animals | 1 | 4.76 | 3.66 | 5.00 | 0.49 | 0.01 |
| Unknown | 1 | 4.76 | 0.71 | 1.00 | 0.10 | 0.00 |
| Public Cause | 1 | 4.76 | 1.17 | 1.00 | 0.16 | 0.00 |
| KVA | 1 | 4.76 | 1.67 | 1.00 | 0.23 | 0.00 |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI): 52.70

10. REPORTING YEAR (SAIDI) 204.84

11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.53

12. REPORTING YEAR (SAIFI): 3.43

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

Two of the 'Trees out of R/W' events accounted for 711 of the member outages on windy days. The two 'line hardware' events' was really one, but the entire feeder had to be de-energized to repair a broken insulator on a rainy day.

Feeder averages are below system averages. No further actions are deemed necessary.

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:

Custer

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Approximately 1/4 mi. south of Custer along Hwy 86 in Breckinridge County

3. CIRCUIT NAME AND NUMBER

Feeder 1 (Hensley circuit)

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

North along Hwy 86 to US-60

5. TOTAL CIRCUIT LENGTH (MILES)

60 miles

6. CUSTOMER COUNT FOR THIS CIRCUIT

462

7. DATE OF LAST CIRCUIT TRIM (VM)

2013

8

| Cause | Count | Percentage | Customer-hours | Customers | SAIDI | SAIFI |
|---------------|-------|------------|----------------|-----------|--------|-------|
| Public Cause | 6 | 50.00 | 3364.15 | 935.00 | 436.90 | 2.02 |
| Storms | 2 | 16.67 | 11.92 | 9.00 | 1.55 | 0.02 |
| Pre-Arranged | 2 | 16.67 | 2.21 | 4.00 | 0.29 | 0.01 |
| KVA | 1 | 8.33 | 2.42 | 1.00 | 0.31 | 0.00 |
| Line Hardware | 1 | 8.33 | 1.83 | 1.00 | 0.24 | 0.00 |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 109.44

10. REPORTING YEAR (SAIDI) 439.00

11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.72

12. REPORTING YEAR (SAIFI): 2.05

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

Vehicles struck and broke three-phase poles along Hwy 86 on 3 separate incidences, outaging 928 members.

Have contacted the KY DOT to look into this issue along Hwy 86; no resolution yet. No further action is deemed necessary.

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 Doe Valley

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Approximately 4 miles east of Brandenburg along Hwy 1638 in Meade County

3. CIRCUIT NAME AND NUMBER

Feeder 3 (Weldon circuit)

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

West along Hwy 1638 into Doe Valley resort; supplies west Doe Valley and Weldon

5. TOTAL CIRCUIT LENGTH (MILES)

12 miles

6. CUSTOMER COUNT FOR THIS CIRCUIT

229

7. DATE OF LAST CIRCUIT TRIM (VM)

2012

8

| Cause | Count | Percentag | e Customer-hours | Customers | SAIDI | SAIFI |
|---------------|-------|-----------|------------------|-----------|-------|-------|
| Public Cause | 2 | 33.33 | 196.67 | 249.00 | 51.53 | 1.09 |
| Birds/Animals | 2 | 33.33 | 188.28 | 239.00 | 49.33 | 1.04 |
| Unknown | 1 | 16.67 | 11.64 | 12.00 | 3.05 | 0.05 |
| KVA | 1 | 16.67 | 1.54 | 2.00 | 0.40 | 0.01 |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 38.72

10. REPORTING YEAR (SAIDI) 104.31

11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.81

12. REPORTING YEAR (SAIFI): 2.19

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

In July, the Brandenburg Telephone Company were installing equipment along our route and pulled our neutral into the phase.

In October, a squirrel got into the substation and blew two high-side fuses.

At this time, no further actions are deemed necessary.

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

Doe Valley

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Approximately 4 miles east of Brandenburg along Hwy 1638 in Meade County

3. CIRCUIT NAME AND NUMBER

Feeder 4 (Condo circuit)

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

West along Hwy 1638 into Doe Valley resort; supplies south Doe Valley

5. TOTAL CIRCUIT LENGTH (MILES)

10 miles

6. CUSTOMER COUNT FOR THIS CIRCUIT

242

7. DATE OF LAST CIRCUIT TRIM (VM)

2012

8

| Cause | Count | Percentage | Customer-hours | Customers | SAIDI | SAIFI |
|--|-------------|----------------------------------|-----------------------------------|-----------------------------------|---------------------------------|------------------------------|
| Birds/Animals KVA Trees out of R/W Pre-Arranged | 2 2 1 | 33.33 33.33 16.67 16.67 | 225.48 597.91 19.71 1.40 | 248.00 239.00 18.00 1.00 | 55.90 148.24 4.89 0.35 | 1.02 0.99 0.07 0.00 |
| | | | | | | |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 53.58

10. REPORTING YEAR (SAIDI) 209.03

11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.04

12. REPORTING YEAR (SAIFI) 2.09

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

Downline distribution transformer primary winding failed, faulted the entire feeder. In October, a squirrel got into the substation and blew two high-side fuses. At this time, no further actions are deemed necessary.

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

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)

Along south Hwy 79 towards Short Creek

5. TOTAL CIRCUIT LENGTH (MILES)

31 miles

6. CUSTOMER COUNT FOR THIS CIRCUIT

195

7. DATE OF LAST CIRCUIT TRIM (VM)

2014

8

| Cause | Count | Percentage | Customer-hours | Customers | SAIDI | SAIFI |
|------------------|-------|------------|----------------|-----------|--------|-------|
| Line Hardware | 2 | 16.67 | 543.64 | 203.00 | 167.27 | 1.04 |
| Trees out of R/W | 3 | 25.00 | 51.38 | 27.00 | 15.81 | 0.14 |
| Pre-Arranged | 2 | 16.67 | 24.97 | 22.00 | 7.68 | 0.11 |
| Storms | 2 | 16.67 | 35.32 | 11.00 | 10.87 | 0.06 |
| Birds/Animals | 1 | 8.33 | 8.27 | 9.00 | 2.54 | 0.05 |
| Unknown | 1 | 8.33 | 10.40 | 5,00 | 3,20 | 0.03 |
| Cutouts/OCB | 1 | 8.33 | 1.14 | 1.00 | 0.35 | 0.01 |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 38.95

10. REPORTING YEAR (SAIDI) 200.05

11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.31

12. REPORTING YEAR (SAIFI) 1.31

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

Insulator failed downline; outaged entire feeder.

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 3 (Autumn Ridge circuit)

- 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): East along Hwy 110, crosses Rough River Reservoir, then towards Duff along along Beauchamp Cemetary
- 5. TOTAL CIRCUIT LENGTH (MILES)

65 miles

6. CUSTOMER COUNT FOR THIS CIRCUIT

1311

7. DATE OF LAST CIRCUIT TRIM (VM)

2014

| 8 | Cause | Count | Percentage | Customer-hours | Customers | SAIDI | SAIFI |
|---|------------------|-------|------------|----------------|-----------|-------|-------|
| | Cutouts/OCB | 1 | 2.04 | 1914.52 | 1297.00 | 87.62 | 0.99 |
| | Pre-Arranged | 7 | 14.29 | 827.32 | 686.00 | 37.86 | 0.52 |
| | Line Hardware | 4 | 8.16 | 499.56 | 546.00 | 22.86 | 0.42 |
| | Trees out of R/W | 11 | 22.45 | 757.17 | 338.00 | 34.65 | 0.26 |
| | Birds/Animals | 9 | 18.37 | 302,08 | 236.00 | 13.83 | 0.18 |
| | Unknown | 6 | 12.24 | 151.88 | 112.00 | 6.95 | 0.09 |
| | Trees in R/W | 2 | 4.08 | 15.37 | 52.00 | 0.70 | 0.04 |
| | KVA | 5 | 10.20 | 41.95 | 23.00 | 1.92 | 0.02 |
| | Storms | 3 | 6.12 | 14.47 | 7.00 | 0.66 | 0.01 |
| | Conductor | 1 | 2.04 | 4.02 | 1.00 | 0.18 | 0.00 |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 77.18

10. REPORTING YEAR (SAIDI) 169.38

11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.79

12. REPORTING YEAR (SAIFI) 1.99

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

Recloser control failed in substation during an isolated rainstorm; bypassed recloser and replaced control.

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 Flaherty

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

At north edge of Flaherty along Hwy 144

3. CIRCUIT NAME AND NUMBER

Feeder 2 (St. Martin's Rd)

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

West along Hwy 1600 and then south along Hwy 333 to Big Springs

5. TOTAL CIRCUIT LENGTH (MILES)

55 miles

6. CUSTOMER COUNT FOR THIS CIRCUIT

721

7. DATE OF LAST CIRCUIT TRIM (VM)

2010

8

| Cause | Count | Percentage | Customer-hours | Customers | SAIDI | SAIFI |
|------------------|-------|------------|----------------|-----------|-------|-------|
| Trees out of R/W | 2 | 15.38 | 1120.63 | 265.00 | 93.26 | 0.37 |
| Other | 1 | 7.69 | 17.52 | 29.00 | 1.46 | 0.04 |
| Unknown | 2 | 15.38 | 20.77 | 24.00 | 1.73 | 0.03 |
| Birds/Animals | 1 | 7.69 | 20.25 | 23.00 | 1.69 | 0.03 |
| Pre-Arranged | 3 | 23.08 | 39.21 | 20.00 | 3.26 | 0.03 |
| Storms | 1 | 7.69 | 18.48 | 19.00 | 1.54 | 0.03 |
| KVA | 2 | 15.38 | 3.97 | 3.00 | 0.33 | 0.00 |
| Public Cause | 1 | 7.69 | 1.10 | 2.00 | 0.09 | 0.00 |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 33.96

10. REPORTING YEAR (SAIDI) 100.09

11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.87

12. REPORTING YEAR (SAIFI) 0.51

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

Tree out of the R/W fell and tore down the three-phase lines near the end of the feeder. Sub was trimmed during 2015.

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 3 (Pattyville circuit)

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

East on Hwy 54 and northeast on Hwy 110

5. TOTAL CIRCUIT LENGTH (MILES)

42 miles

6. CUSTOMER COUNT FOR THIS CIRCUIT

219

7. DATE OF LAST CIRCUIT TRIM (VM)

2014

8

| Cause | Count | Percentage | Customer-hours | Customers | SAIDI | SAIFI |
|------------------|-------|------------|----------------|-----------|--------|-------|
| Trees out of R/W | 2 | 28.57 | 842.23 | 266.00 | 230.75 | 1.21 |
| Storms | 1 | 14.29 | 9.26 | 9.00 | 2.54 | 0.04 |
| Unknown | 3 | 42.86 | 5.12 | 4.00 | 1.40 | 0.02 |
| KVA | 1 | 14.29 | 1.65 | 1.00 | 0.45 | 0.00 |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 72.49

10. REPORTING YEAR (SAIDI) 235.14

11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.69

12. REPORTING YEAR (SAIFI) 1.28

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

Wind knocked over a tree out of the R/W in July, pushed pole over and damaged it.

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 2

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

West edge of Hardinsburg along old US-60

3. CIRCUIT NAME AND NUMBEF Feeder

Feeder 1 (Breckwood/Kirk circuit)

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

South through town and then south along Hwy 261 through McQuady

5. TOTAL CIRCUIT LENGTH (MILES)

93 miles

6. CUSTOMER COUNT FOR THIS CIRCUIT

653

7. DATE OF LAST CIRCUIT TRIM (VM)

2011

| Cause | Count | Percentage | Customer-hours | Customers | SAIDI | SAIFI |
|------------------|-------|------------|----------------|-----------|-------|-------|
| Unknown | 8 | 22.86 | 674.41 | 681.00 | 61.97 | 1.04 |
| Line Hardware | 2 | 5.71 | 1026.15 | 647.00 | 94.29 | 0.99 |
| Storms | 4 | 11.43 | 113.58 | 92.00 | 10.44 | 0.14 |
| Trees out of R/W | 2 | 5.71 | 177.58 | 72.00 | 16.32 | 0.11 |
| Pre-Arranged | 7 | 20.00 | 68.77 | 44.00 | 6.32 | 0.07 |
| Conductor | 1 | 2.86 | 76.05 | 39.00 | 6.99 | 0.06 |
| Public Cause | 1 | 2.86 | 24.14 | 25.00 | 2.22 | 0.04 |
| Trees in R/W | 1 | 2.86 | 6.58 | 10.00 | 0.60 | 0.02 |
| Birds/Animals | 5 | 14.29 | 4.84 | 7.00 | 0.44 | 0.01 |
| KVA | 4 | 11.43 | 4.16 | 5.00 | 0.38 | 0.01 |

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 45.57

10. REPORTING YEAR (SAIDI) 193.64

11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.47

12. REPORTING YEAR (SAIFI) 2.42

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

Entire circuit locked out on 6/23 near midnight; no reason was found. Connector failed on main line and burned the line down on 10/11. No further actions deemed necessary.

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

McDaniels

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

0.8 mile northwest of McDaniels along Hwy 259

3. CIRCUIT NAME AND NUMBER

Feeder 1 (Hinton Hills circuit)

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

West along Hwys 259 and 79 towards Axtel

5. TOTAL CIRCUIT LENGTH (MILES)

31 miles

6. CUSTOMER COUNT FOR THIS CIRCUIT

836

7. DATE OF LAST CIRCUIT TRIM (VM)

2012

12. REPORTING YEAR (SAIFI)

| 8 | | | | | | | |
|-----------------------------------|------------------------------|--------|------------|----------------|-----------|--------|-------|
| | Cause | Count | Percentage | Customer-hours | Customers | SAIDI | SAIFI |
| | Unknown | 2 | 6.90 | 1955.82 | 921.00 | 140.37 | 1.10 |
| | Other | 1 | 3.45 | 225.72 | 329.00 | 16.20 | 0.39 |
| | Cutouts/OCB | 1 | 3.45 | 672.40 | 328.00 | 48.26 | 0.39 |
| | Storms | 5 | 17.24 | 511.72 | 216.00 | 36.73 | 0.26 |
| | Trees out of R/W | 3 | 10.34 | 208.17 | 153.00 | 14.94 | 0.18 |
| | Pre-Arranged | 10 | 34.48 | 428.06 | 150.00 | 30.72 | 0.18 |
| | Line Hardware | 1 | 3.45 | 129.07 | 88.00 | 9.26 | 0.11 |
| | Birds/Animals | 5 | 17.24 | 9.89 | 13.00 | 0.71 | 0.02 |
| | KVA | 1 | 3.45 | 3.60 | 3.00 | 0.26 | 0.00 |
| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI) | | AIDI) | 77.50 | | | | |
| 1 | 0. REPORTING YEAR (SAIDI) | | 266.73 | | | | |
| 1 | 1. CIRCUIT 5 YEAR AVERAGE (S | SAIFI) | 0.85 | | | | |

2.45

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

On 7/29, storm caused outage, but energization was hindered due to high loads; reconfigured feeds and performed sectionalizing study to resolve the issue.

On 8/26, the Deer Trail area went out for unknown reasons and re-energization was hampered due to high loads; plans were already in place to three-phase area; completed in December.

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 2015. Scheduled substation trimming has progressed as planned and no changes to the 2016 schedule are antipated. | | | | |
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SECTION 7: UTILITY COMMENTS

Power supplier issues declined significantly from the previous years, mainly due to extensive overhaul of breakers, cabling, relays, and other equipment at the Big Rivers Hardinsburg Substation.

2016 will conclude the huge copper replacement project MCRECC has worked on for several years. Only small lines and taps will remain which will be replaced as time and efforts allow. Replacement of the aging small copper lines have been a huge boost for reliablity.