



A Touchstone Energy® Cooperative 

April 28, 2023

Ms. Linda Bridwell
Public Service Commission
P.O. Box 615
211 Sower Boulevard
Frankfort, Kentucky 40602-0615

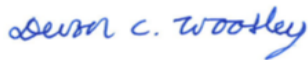
RE: Administrative Case No. 2011-00450: Annual Distribution Reliability Report

Dear Ms Bridwell:

Please find enclosed a copy of the 2022 electric distribution utility annual reliability report for Nolin RECC, as well as a copy of Nolin RECC's vegetation management plan.

If you have any questions regarding the enclosed information, please contact me at (270) 765-6153 ext 2702 or dwoosley@nolinrecc.com

Regards,



Devon C. Woosley
Manager - Engineering
Nolin Rural Electric Cooperative Corporation

Enclosures

Kentucky Public Service Commission
Electric Distribution Utility Annual Reliability Report

SECTION 1: CONTACT INFORMATION

| | |
|-----------------------------|--|
| UTILITY NAME: | Nolin RECC |
| REPORT PREPARED BY: | Jordan Horsley |
| E-MAIL ADDRESS OF PREPARER: | jhorsley@nolinrecc.com |
| PHONE NUMBER OF PREPARER: | (270) 765-6153 ext 2716 |

SECTION 2: REPORTING YEAR

| | |
|--------------------------|------|
| CALENDAR YEAR OF REPORT: | 2022 |
|--------------------------|------|

SECTION 3: MAJOR EVENT DAYS (MED)

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|------------------------------------|------------|
| TMED: | 3.40 |
| FIRST DATE USED TO DETERMINE TMED: | 1/1/2017 |
| LAST DATE USED TO DETERMINE TMED: | 12/31/2021 |
| NUMBER OF MED IN REPORT YEAR: | 5 |

NOTE: Per IEEE TMED 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 accumulated.

SECTION 4: SYSTEM RELIABILITY INFORMATION AND RESULTS

System-wide Information

| | |
|--------------------------------|---------------------------|
| TOTAL CUSTOMERS: <u>36,761</u> | TOTAL CIRCUITS: <u>84</u> |
|--------------------------------|---------------------------|

Excluding MED

| 5-YEAR AVERAGE (2017 - 2021) | REPORTING YEAR |
|------------------------------|----------------------|
| SAIDI: <u>48.892</u> | SAIDI: <u>47.674</u> |
| SAIFI: <u>0.739</u> | SAIFI: <u>0.724</u> |

Including MED

| 5-YEAR AVERAGE (2017 - 2021) | REPORTING YEAR |
|------------------------------|-----------------------|
| SAIDI: <u>190.359</u> | SAIDI: <u>121.176</u> |
| SAIFI: <u>1.206</u> | SAIFI: <u>1.067</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 TMED.

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|---|
| CIRCUIT # 1 | COLESBURG - 2 |
| 1. SUBSTATION NAME AND NUMBER: | COLESBURG (1) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | HARDIN - HALL & BARDSTOWN RD |
| 3. CIRCUIT NAME AND NUMBER: | COLESBURG - 2 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | ELIZABETHTOWN, KY - BARDSTOWN RD, MOUNTAIN VIEW ESTATES RD |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 23.90 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 465 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 09/16 |

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|-----------------------|---|--------------------------------------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR <u>28.83%</u> | PUBLIC ACCIDENTS, OTHER <u>0.00%</u> |
| | EQUIPMENT / MATERIAL FAILURE <u>0.36%</u> | SMALL ANIMALS OR BIRDS <u>0.00%</u> |
| | LIGHTNING <u>5.36%</u> | TREES <u>16.33%</u> |
| | NO CAUSE CODE <u>0.71%</u> | WIND, HIGH WIND <u>0.00%</u> |
| | PLANNED OUTAGE <u>48.41%</u> | WEATHER <u>0.00%</u> |
| | POWER SUPPLIER <u>0.00%</u> | |

| | |
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| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 80.46 |
| 10. REPORTING YEAR (SAIDI): | 37.67 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.77 |
| 12. REPORTING YEAR (SAIFI): | 1.55 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | <div style="border: 1px solid black; height: 30px; width: 100%;"></div> |

TREE CAUSE CODE BREAKDOWN

VEGETATION (I.E. VINES) 95.8% NO EQUIP CODE 4.2%

EQUIPMENT CAUSE CODE BREAKDOWN

PROTECTIVE DEVICE 100.0%

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|--|
| CIRCUIT # 2 | GLENDALE - 1 |
| 1. SUBSTATION NAME AND NUMBER: | GLENDALE (3) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | HARDIN - E. GLENDALE HODGENVILLE RD - GLENDALE |
| 3. CIRCUIT NAME AND NUMBER: | GLENDALE - 1 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | GLENDALE, KY - W GLENDALE HODGENVILLE RD, MUD SPLASH RD, ANDOVER RD |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 10.78 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 210 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 10/20 |

| | | |
|-----------------------|---|--------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR | 0.00% |
| | PUBLIC ACCIDENTS, OTHER | 0.00% |
| | EQUIPMENT / MATERIAL FAILURE | 3.28% |
| | SMALL ANIMALS OR BIRDS | 1.27% |
| | LIGHTNING | 1.47% |
| | TREES | 34.13% |
| | NO CAUSE CODE | 0.13% |
| | WIND, HIGH WIND | 0.00% |
| | PLANNED OUTAGE | 59.71% |
| | WEATHER | 0.00% |
| | POWER SUPPLIER | 0.00% |

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| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 13.57 |
| 10. REPORTING YEAR (SAIDI): | 26.74 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.30 |
| 12. REPORTING YEAR (SAIFI): | 0.24 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Review ROW conditions and vegetation management cycle. |

TREE CAUSE CODE BREAKDOWN

NO EQUIP CODE 100.0%

EQUIPMENT CAUSE CODE BREAKDOWN

CONDUCTOR 22.5% CONNECTOR/CLAMP/SPLICE/DEADEND 60.9%
PROTECTIVE DEVICE 16.6%

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|--|
| CIRCUIT # 3 | GLENDALE - 4 |
| 1. SUBSTATION NAME AND NUMBER: | GLENDALE (3) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | HARDIN - E. GLENDALE HODGENVILLE RD - GLENDALE |
| 3. CIRCUIT NAME AND NUMBER: | GLENDALE - 4 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | GLENDALE, KY - ROUNDTOP RD, LINCOLN PKWY |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 39.89 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 285 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 10/20 |

| | | |
|-----------------------|---|--------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR | 0.00% |
| | EQUIPMENT / MATERIAL FAILURE | 11.87% |
| | LIGHTNING | 2.66% |
| | NO CAUSE CODE | 0.07% |
| | PLANNED OUTAGE | 1.62% |
| | POWER SUPPLIER | 0.00% |
| | PUBLIC ACCIDENTS, OTHER | 0.00% |
| | SMALL ANIMALS OR BIRDS | 0.00% |
| | TREES | 83.78% |
| | WIND, HIGH WIND | 0.00% |
| | WEATHER | 0.00% |

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| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 38.63 |
| 10. REPORTING YEAR (SAIDI): | 109.94 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.71 |
| 12. REPORTING YEAR (SAIFI): | 0.60 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Review ROW conditions and vegetation management cycle. |

TREE CAUSE CODE BREAKDOWN

DEAD TREE (IN-ROW) 90.9% DEAD TREE (OUT-OF-ROW) 9.1%

EQUIPMENT CAUSE CODE BREAKDOWN

CONNECTOR/CLAMP/SPLICE/DEADEND 95.8% PROTECTIVE DEVICE 4.2%

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|---|
| CIRCUIT # 4 | HODGENVILLE-DONNIE PROPES - 2 |
| 1. SUBSTATION NAME AND NUMBER: | HODGENVILLE-DONNIE PROPES (4) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | LARUE - HWY 31E (NEAR WADDELL RD)- HODGENVILLE |
| 3. CIRCUIT NAME AND NUMBER: | HODGENVILLE-DONNIE PROPES - 2 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | WHITE CITY, KY - CAMPBELLSVILLE RD, MT TABOR RD |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 76.47 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 766 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 01/21 |

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|-----------------------|---|--------|-------------------------|-------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | | | |
| | CONTRACTOR | 0.00% | PUBLIC ACCIDENTS, OTHER | 0.00% |
| | EQUIPMENT / MATERIAL FAILURE | 1.49% | SMALL ANIMALS OR BIRDS | 0.05% |
| | LIGHTNING | 1.77% | TREES | 8.42% |
| | NO CAUSE CODE | 55.11% | WIND, HIGH WIND | 0.00% |
| | PLANNED OUTAGE | 33.17% | WEATHER | 0.00% |
| | POWER SUPPLIER | 0.00% | | |

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|--|---|
| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 56.08 |
| 10. REPORTING YEAR (SAIDI): | 91.42 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.46 |
| 12. REPORTING YEAR (SAIFI): | 2.36 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Feeder inspection will identify areas for correction. |

TREE CAUSE CODE BREAKDOWN

GREEN TREE FAILURE (OUT-OF-ROW) 10.1% NO EQUIP CODE 89.9%

EQUIPMENT CAUSE CODE BREAKDOWN

POLE/CROSSARM 6.7% CONDUCTOR 36.4%
CONNECTOR/CLAMP/SPLICE/DEADEND 5.5% PORCELAIN CUTOUT 43.7%
TRANSFORMER 6.5% PROTECTIVE DEVICE 1.2%

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|---|
| CIRCUIT # 5 | HODGENVILLE-DONNIE PROPE - 3 |
| 1. SUBSTATION NAME AND NUMBER: | HODGENVILLE-DONNIE PROPE (4) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | LARUE - HWY 31E (NEAR WADDELL RD)- HODGENVILLE |
| 3. CIRCUIT NAME AND NUMBER: | HODGENVILLE-DONNIE PROPE - 3 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | TANNER, KY - LANDMARK DR, S LINCOLN BLVD, TANNER RD |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 37.86 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 448 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 01/21 |

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|-----------------------|---|--------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR | 0.00% |
| | EQUIPMENT / MATERIAL FAILURE | 3.20% |
| | LIGHTNING | 0.00% |
| | NO CAUSE CODE | 20.30% |
| | PLANNED OUTAGE | 2.73% |
| | POWER SUPPLIER | 0.00% |
| | PUBLIC ACCIDENTS, OTHER | 73.77% |
| | SMALL ANIMALS OR BIRDS | 0.00% |
| | TREES | 0.00% |
| | WIND, HIGH WIND | 0.00% |
| | WEATHER | 0.00% |

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| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 32.78 |
| 10. REPORTING YEAR (SAIDI): | 25.92 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.20 |
| 12. REPORTING YEAR (SAIFI): | 0.40 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Feeder inspection will identify areas for correction. |

TREE CAUSE CODE BREAKDOWN

EQUIPMENT CAUSE CODE BREAKDOWN

ARRESTER 3.4% PORCELAIN CUTOUT 31.0% PROTECTIVE DEVICE 65.6%

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

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| CIRCUIT # 6 | HODGENVILLE-DONNIE PROPES - 5 |
| 1. SUBSTATION NAME AND NUMBER: | HODGENVILLE-DONNIE PROPES (4) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | LARUE - HWY 31E (NEAR WADDELL RD)- HODGENVILLE |
| 3. CIRCUIT NAME AND NUMBER: | HODGENVILLE-DONNIE PROPES - 5 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | HODGENVILLE, KY - SHEPHERDSVILLE RD, CARTER BROTHERS RD |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 20.77 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 116 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 01/21 |

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|-----------------------|---|--------|-------------------------|--------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | | | |
| | CONTRACTOR | 0.00% | PUBLIC ACCIDENTS, OTHER | 0.00% |
| | EQUIPMENT / MATERIAL FAILURE | 72.91% | SMALL ANIMALS OR BIRDS | 12.80% |
| | LIGHTNING | 6.13% | TREES | 0.00% |
| | NO CAUSE CODE | 0.00% | WIND, HIGH WIND | 0.00% |
| | PLANNED OUTAGE | 8.15% | WEATHER | 0.00% |
| | POWER SUPPLIER | 0.00% | | |

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| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 79.74 |
| 10. REPORTING YEAR (SAIDI): | 78.68 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.72 |
| 12. REPORTING YEAR (SAIFI): | 1.35 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Feeder inspection to identify equipment for maintenance. |

TREE CAUSE CODE BREAKDOWN

EQUIPMENT CAUSE CODE BREAKDOWN

POLE/CROSSARM 87.5% TRANSFORMER 7.5% PROTECTIVE DEVICE 5.0%

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|---|
| CIRCUIT # 7 | MAGNOLIA - 1 |
| 1. SUBSTATION NAME AND NUMBER: | MAGNOLIA (5) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | LARUE - NEW JACKSON HWY - MAGNOLIA |
| 3. CIRCUIT NAME AND NUMBER: | MAGNOLIA - 1 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | MAGNOLIA, KY- JE JONES RD, MT SHERMAN, BAILEY CROSSROADS, MT TABOR RD, HWY 210, HWY 61 |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 92.87 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 808 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 02/21 |

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|-----------------------|---|---------------------------------------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR <u>0.00%</u> | PUBLIC ACCIDENTS, OTHER <u>23.20%</u> |
| | EQUIPMENT / MATERIAL FAILURE <u>72.91%</u> | SMALL ANIMALS OR BIRDS <u>0.00%</u> |
| | LIGHTNING <u>3.25%</u> | TREES <u>0.00%</u> |
| | NO CAUSE CODE <u>0.00%</u> | WIND, HIGH WIND <u>0.00%</u> |
| | PLANNED OUTAGE <u>0.64%</u> | WEATHER <u>0.00%</u> |
| | POWER SUPPLIER <u>0.00%</u> | |

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| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 99.52 |
| 10. REPORTING YEAR (SAIDI): | 89.67 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 1.26 |
| 12. REPORTING YEAR (SAIFI): | 1.58 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Feeder inspection to identify equipment for maintenance. |

TREE CAUSE CODE BREAKDOWN

EQUIPMENT CAUSE CODE BREAKDOWN

CONDUCTOR 96.0% PORCELAIN CUTOUT 3.0% PROTECTIVE DEVICE 1.0%

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|---|
| CIRCUIT # 8 | STEPHENSBURG - 1 |
| 1. SUBSTATION NAME AND NUMBER: | STEPHENSBURG (6) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | HARDIN-LEITCHFIELD RD-STEPHENSBURG |
| 3. CIRCUIT NAME AND NUMBER: | STEPHENSBURG - 1 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | GLENDALE, KY - STAR MILLS EASTVIEW RD, BACON CREEK RD, HWY 222, CECILIA SMITH MILL RD, PARTRIDGE WAY |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 42.11 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 491 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 04/19 |

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|-----------------------|---|--------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR | 0.00% |
| | PUBLIC ACCIDENTS, OTHER | 0.00% |
| | EQUIPMENT / MATERIAL FAILURE | 1.95% |
| | SMALL ANIMALS OR BIRDS | 0.00% |
| | LIGHTNING | 32.23% |
| | TREES | 0.18% |
| | NO CAUSE CODE | 3.19% |
| | WIND, HIGH WIND | 1.01% |
| | PLANNED OUTAGE | 61.45% |
| | WEATHER | 0.00% |
| | POWER SUPPLIER | 0.00% |

| | |
|--|--|
| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 54.86 |
| 10. REPORTING YEAR (SAIDI): | 107.57 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.87 |
| 12. REPORTING YEAR (SAIFI): | 1.27 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Identify new surge arrestor placement opportunities. Review overvoltage protection. |

TREE CAUSE CODE BREAKDOWN

NO EQUIP CODE 100.0%

EQUIPMENT CAUSE CODE BREAKDOWN

CONNECTOR/CLAMP/SPLICE/DEADEND 52.2% PORCELAIN CUTOUT 1.0%
 TRANSFORMER 26.0% PROTECTIVE DEVICE 20.7%

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|--|
| CIRCUIT # 9 | STEPHENSBURG - 2 |
| 1. SUBSTATION NAME AND NUMBER: | STEPHENSBURG (6) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | HARDIN-LEITCHFIELD RD-STEPHENSBURG |
| 3. CIRCUIT NAME AND NUMBER: | STEPHENSBURG - 2 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | WHITE HILLS, KY - W WHITE MILLS GLENDALE RD, S LONG GROVE RD, MELROSE RD, SONORA HARDIN SPRINGS RD |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 46.41 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 254 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 04/19 |

| | | |
|-----------------------|---|--------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR | 0.00% |
| | PUBLIC ACCIDENTS, OTHER | 0.00% |
| | EQUIPMENT / MATERIAL FAILURE | 75.85% |
| | SMALL ANIMALS OR BIRDS | 3.49% |
| | LIGHTNING | 1.63% |
| | TREES | 0.00% |
| | NO CAUSE CODE | 0.00% |
| | WIND, HIGH WIND | 0.00% |
| | PLANNED OUTAGE | 19.02% |
| | WEATHER | 0.00% |
| | POWER SUPPLIER | 0.00% |

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|---|--|
| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 31.19 |
| 10. REPORTING YEAR (SAIDI): | 34.13 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.55 |
| 12. REPORTING YEAR (SAIFI): | 0.22 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Feeder inspection to identify equipment for maintenance. |

TREE CAUSE CODE BREAKDOWN

EQUIPMENT CAUSE CODE BREAKDOWN

CONDUCTOR 88.2% CONNECTOR/CLAMP/SPLICE/DEADEND 9.8%
PROTECTIVE DEVICE 2.0%

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

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|--|--|
| CIRCUIT # 10 | STEPHENSBURG - 4 |
| 1. SUBSTATION NAME AND NUMBER: | STEPHENSBURG (6) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | HARDIN-LEITCHFIELD RD-STEPHENSBURG |
| 3. CIRCUIT NAME AND NUMBER: | STEPHENSBURG - 4 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | EASTVIEW, KY -EASTVIEW RD, MEETING CREEK RD, SONORA HARDIN SPRINGS RD |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 75.80 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 577 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 02/19 |

| | | |
|-----------------------|---|--------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR | 0.00% |
| | PUBLIC ACCIDENTS, OTHER | 8.42% |
| | EQUIPMENT / MATERIAL FAILURE | 27.18% |
| | SMALL ANIMALS OR BIRDS | 0.17% |
| | LIGHTNING | 0.00% |
| | TREES | 61.60% |
| | NO CAUSE CODE | 0.41% |
| | WIND, HIGH WIND | 0.00% |
| | PLANNED OUTAGE | 2.22% |
| | WEATHER | 0.00% |
| | POWER SUPPLIER | 0.00% |

| | |
|--|--|
| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 43.71 |
| 10. REPORTING YEAR (SAIDI): | 63.49 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.63 |
| 12. REPORTING YEAR (SAIFI): | 0.39 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Review ROW conditions and vegetation management cycle. |

TREE CAUSE CODE BREAKDOWN GREEN TREE FAILURE (OUT-OF-ROW) 86.7% DEAD TREE (OUT-OF-ROW) 8.8%
NO EQUIP CODE 4.4%

EQUIPMENT CAUSE CODE BREAKDOWN CONDUCTOR 94.9% PORCELAIN CUTOUT 1.9% PROTECTIVE DEVICE 3.3%

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|---|
| CIRCUIT # 11 | VERTREES - 1 |
| 1. SUBSTATION NAME AND NUMBER: | VERTREES (8) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | HARDIN - SALT RIVER RD. - VERTREES |
| 3. CIRCUIT NAME AND NUMBER: | VERTREES - 1 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | VERTREES, KY - HARDINSBURG RD, CONSTANTINE RD |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 42.23 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 304 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 03/16 |

| | | |
|-----------------------|---|--------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR | 0.00% |
| | EQUIPMENT / MATERIAL FAILURE | 5.85% |
| | LIGHTNING | 0.00% |
| | NO CAUSE CODE | 0.30% |
| | PLANNED OUTAGE | 2.46% |
| | POWER SUPPLIER | 0.00% |
| | PUBLIC ACCIDENTS, OTHER | 7.42% |
| | SMALL ANIMALS OR BIRDS | 0.09% |
| | TREES | 83.88% |
| | WIND, HIGH WIND | 0.00% |
| | WEATHER | 0.00% |

| | |
|--|--|
| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 24.03 |
| 10. REPORTING YEAR (SAIDI): | 155.39 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.27 |
| 12. REPORTING YEAR (SAIFI): | 0.92 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Review ROW conditions and vegetation management cycle. |

TREE CAUSE CODE BREAKDOWN

GREEN TREE FAILURE (OUT-OF-ROW) 100.0%

EQUIPMENT CAUSE CODE BREAKDOWN

CONNECTOR/CLAMP/SPLICE/DEADEND 2.0% PROTECTIVE DEVICE 98.0%

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|--|
| CIRCUIT # 12 | VERTREES - 4 |
| 1. SUBSTATION NAME AND NUMBER: | VERTREES (8) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | HARDIN - SALT RIVER RD. - VERTREES |
| 3. CIRCUIT NAME AND NUMBER: | VERTREES - 4 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | VERTREES, KY - HARDINSBURG RD, LONG GROVE RD |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 43.61 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 502 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 04/16 |

| | | |
|-----------------------|---|--------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR | 0.00% |
| | EQUIPMENT / MATERIAL FAILURE | 43.21% |
| | LIGHTNING | 0.00% |
| | NO CAUSE CODE | 0.00% |
| | PLANNED OUTAGE | 56.34% |
| | POWER SUPPLIER | 0.00% |
| | PUBLIC ACCIDENTS, OTHER | 0.00% |
| | SMALL ANIMALS OR BIRDS | 0.00% |
| | TREES | 0.45% |
| | WIND, HIGH WIND | 0.00% |
| | WEATHER | 0.00% |

| | |
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| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 26.32 |
| 10. REPORTING YEAR (SAIDI): | 30.49 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.26 |
| 12. REPORTING YEAR (SAIFI): | 0.30 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Feeder inspection to identify equipment for maintenance. |

TREE CAUSE CODE BREAKDOWN

NO EQUIP CODE 100.0%

EQUIPMENT CAUSE CODE BREAKDOWN

CONDUCTOR 61.0% PROTECTIVE DEVICE 39.0%

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|---|
| CIRCUIT # 13 | VINE GROVE - 3 |
| 1. SUBSTATION NAME AND NUMBER: | VINE GROVE (9) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | HARDIN - ROGERSVILLE RD. - RADCLIFF |
| 3. CIRCUIT NAME AND NUMBER: | VINE GROVE - 3 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | VINE GROVE, KY - ROGERSVILLE RD,S LOGSDON PKWY, PEARMAN AVE, S & N WOODLAND DR |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 12.93 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 727 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 08/17 |

| | | |
|-----------------------|---|--------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR | 0.00% |
| | PUBLIC ACCIDENTS, OTHER | 0.00% |
| | EQUIPMENT / MATERIAL FAILURE | 41.37% |
| | SMALL ANIMALS OR BIRDS | 0.13% |
| | LIGHTNING | 0.00% |
| | TREES | 57.94% |
| | NO CAUSE CODE | 0.00% |
| | WIND, HIGH WIND | 0.00% |
| | PLANNED OUTAGE | 0.57% |
| | WEATHER | 0.00% |
| | POWER SUPPLIER | 0.00% |

| | |
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| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 8.12 |
| 10. REPORTING YEAR (SAIDI): | 178.81 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.13 |
| 12. REPORTING YEAR (SAIFI): | 2.03 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Feeder inspection to identify equipment for maintenance. Review ROW conditions and vegetation management cycle. |

TREE CAUSE CODE BREAKDOWN

DEAD TREE (OUT-OF-ROW) 100.0%

EQUIPMENT CAUSE CODE BREAKDOWN

CONDUCTOR 99.4% CONNECTOR/CLAMP/SPLICE/DEADEND 0.2%
TRANSFORMER 0.4%

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|---|
| CIRCUIT # 14 | VINE GROVE - 6 |
| 1. SUBSTATION NAME AND NUMBER: | VINE GROVE (9) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | HARDIN - ROGERSVILLE RD. - RADCLIFF |
| 3. CIRCUIT NAME AND NUMBER: | VINE GROVE - 6 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | VINE GROVE, KY - JOE PRATHER HWY, WINTERGREEN DR, S DIXIE BLVD |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 7.20 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 326 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 07/17 |

| | | |
|-----------------------|---|--------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR | 0.00% |
| | PUBLIC ACCIDENTS, OTHER | 0.00% |
| | EQUIPMENT / MATERIAL FAILURE | 1.46% |
| | SMALL ANIMALS OR BIRDS | 0.00% |
| | LIGHTNING | 0.00% |
| | TREES | 94.45% |
| | NO CAUSE CODE | 0.00% |
| | WIND, HIGH WIND | 0.00% |
| | PLANNED OUTAGE | 4.10% |
| | WEATHER | 0.00% |
| | POWER SUPPLIER | 0.00% |

| | |
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| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 13.99 |
| 10. REPORTING YEAR (SAIDI): | 38.81 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.21 |
| 12. REPORTING YEAR (SAIFI): | 0.37 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Review ROW conditions and vegetation management cycle. |

TREE CAUSE CODE BREAKDOWN

GROW IN 100.0%

EQUIPMENT CAUSE CODE BREAKDOWN

PROTECTIVE DEVICE 100.0%

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|---|
| CIRCUIT # 15 | VINE GROVE - 7 |
| 1. SUBSTATION NAME AND NUMBER: | VINE GROVE (9) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | HARDIN - ROGERSVILLE RD. - VINE GROVE |
| 3. CIRCUIT NAME AND NUMBER: | VINE GROVE - 7 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | VINE GROVE, KY - DECKARD SCHOOL RD TO COUNTRY LN, BURNS RD, DUGGIN SWITCH RD, VILLA RAY DR |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 17.24 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 304 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 07/17 |

| | | |
|-----------------------|---|--------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR | 0.00% |
| | EQUIPMENT / MATERIAL FAILURE | 0.00% |
| | LIGHTNING | 11.27% |
| | NO CAUSE CODE | 15.26% |
| | PLANNED OUTAGE | 0.18% |
| | POWER SUPPLIER | 0.00% |
| | PUBLIC ACCIDENTS, OTHER | 0.00% |
| | SMALL ANIMALS OR BIRDS | 0.00% |
| | TREES | 73.29% |
| | WIND, HIGH WIND | 0.00% |
| | WEATHER | 0.00% |

| | |
|--|--|
| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 11.04 |
| 10. REPORTING YEAR (SAIDI): | 70.78 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.16 |
| 12. REPORTING YEAR (SAIFI): | 0.81 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Review ROW conditions and vegetation management cycle. |

TREE CAUSE CODE BREAKDOWN

DEAD TREE (IN-ROW) 11.5% GROW IN 2.3% GREEN TREE FAILURE (OUT-OF-ROW) 86.2%

EQUIPMENT CAUSE CODE BREAKDOWN

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|--|
| CIRCUIT # 16 | RADCLIFF - 3 |
| 1. SUBSTATION NAME AND NUMBER: | RADCLIFF (10) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | HARDIN - HILL ST (NEAR W. LINCOLN TRAIL BLVD) - RADCLIFF |
| 3. CIRCUIT NAME AND NUMBER: | RADCLIFF - 3 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | RADCLIFF, KY - RED HILL RD NORTH OF GERONIMO CIR, HILL ST NORTH OF SUBSTATION, EAST SIDE OF SAFARI TRL, |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 19.79 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 1177 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 01/18 |

| | | |
|-----------------------|---|--------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR | 0.00% |
| | PUBLIC ACCIDENTS, OTHER | 0.32% |
| | EQUIPMENT / MATERIAL FAILURE | 1.84% |
| | SMALL ANIMALS OR BIRDS | 3.58% |
| | LIGHTNING | 0.00% |
| | TREES | 3.59% |
| | NO CAUSE CODE | 0.14% |
| | WIND, HIGH WIND | 0.00% |
| | PLANNED OUTAGE | 13.21% |
| | WEATHER | 0.00% |
| | POWER SUPPLIER | 77.32% |

| | |
|--|--|
| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 61.73 |
| 10. REPORTING YEAR (SAIDI): | 67.84 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 1.13 |
| 12. REPORTING YEAR (SAIFI): | 1.37 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Nolin RECC to work with EKPC to review remedies for transmission/substation reliability issues. |

TREE CAUSE CODE BREAKDOWN

VEGETATION (I.E. VINES) 3.2% GROW IN 68.0% NO EQUIP CODE 28.8%

EQUIPMENT CAUSE CODE BREAKDOWN

PORCELAIN CUTOUT 49.9% TRANSFORMER 18.2% PROTECTIVE DEVICE 31.9%

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|--|
| CIRCUIT # 17 | RADCLIFF - 5 |
| 1. SUBSTATION NAME AND NUMBER: | RADCLIFF (10) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | HARDIN - HILL ST (NEAR W. LINCOLN TRAIL BLVD) - RADCLIFF |
| 3. CIRCUIT NAME AND NUMBER: | RADCLIFF - 5 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | RADCLIFF, KY - W LINCOLN TRAIL BLVD, N LORRAINE ST, S LORRAINE ST |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 3.68 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 488 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 03/18 |

| | | |
|-----------------------|---|--------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR | 0.00% |
| | EQUIPMENT / MATERIAL FAILURE | 0.00% |
| | LIGHTNING | 0.00% |
| | NO CAUSE CODE | 26.83% |
| | PLANNED OUTAGE | 18.71% |
| | POWER SUPPLIER | 0.00% |
| | PUBLIC ACCIDENTS, OTHER | 0.61% |
| | SMALL ANIMALS OR BIRDS | 0.00% |
| | TREES | 53.86% |
| | WIND, HIGH WIND | 0.00% |
| | WEATHER | 0.00% |

| | |
|--|--|
| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 19.42 |
| 10. REPORTING YEAR (SAIDI): | 31.89 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.32 |
| 12. REPORTING YEAR (SAIFI): | 0.38 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Review ROW conditions and vegetation management cycle. |

TREE CAUSE CODE BREAKDOWN

GROW IN 100.0%

EQUIPMENT CAUSE CODE BREAKDOWN

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|---|
| CIRCUIT # 18 | TUNNEL HILL 1 - 1 |
| 1. SUBSTATION NAME AND NUMBER: | TUNNEL HILL 1 (11) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | HARDIN - TUNNEL HILL RD. - E-TOWN |
| 3. CIRCUIT NAME AND NUMBER: | TUNNEL HILL 1 - 1 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | ELIZABETHTOWN, KY - DOLPHIN RD, COMMERCE DR |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 7.98 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 452 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 09/18 |

| | | |
|-----------------------|---|--------------------------------------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR <u>0.00%</u> | PUBLIC ACCIDENTS, OTHER <u>0.00%</u> |
| | EQUIPMENT / MATERIAL FAILURE <u>16.76%</u> | SMALL ANIMALS OR BIRDS <u>0.50%</u> |
| | LIGHTNING <u>0.00%</u> | TREES <u>0.00%</u> |
| | NO CAUSE CODE <u>0.00%</u> | WIND, HIGH WIND <u>0.00%</u> |
| | PLANNED OUTAGE <u>82.74%</u> | WEATHER <u>0.00%</u> |
| | POWER SUPPLIER <u>0.00%</u> | |

| | |
|--|---|
| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 9.90 |
| 10. REPORTING YEAR (SAIDI): | 16.53 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.12 |
| 12. REPORTING YEAR (SAIFI): | 0.18 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | <div style="border: 1px solid black; height: 30px; width: 100%;"></div> |

TREE CAUSE CODE BREAKDOWN

EQUIPMENT CAUSE CODE BREAKDOWN

PROTECTIVE DEVICE 100.0%

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|--|
| CIRCUIT # 19 | THARP 1 - 4 |
| 1. SUBSTATION NAME AND NUMBER: | THARP 1 (12) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | HARDIN - ST. JOHN RD. - ETOWN |
| 3. CIRCUIT NAME AND NUMBER: | THARP 1 - 4 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | ELIZABETHTOWN, KY - SAINT JOHN RD, THOMAS RD |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 67.32 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 997 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 12/15 |

| | | |
|-----------------------|---|--------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR | 0.00% |
| | PUBLIC ACCIDENTS, OTHER | 0.12% |
| | EQUIPMENT / MATERIAL FAILURE | 85.66% |
| | SMALL ANIMALS OR BIRDS | 1.34% |
| | LIGHTNING | 1.29% |
| | TREES | 7.14% |
| | NO CAUSE CODE | 0.00% |
| | WIND, HIGH WIND | 0.03% |
| | PLANNED OUTAGE | 4.41% |
| | WEATHER | 0.00% |
| | POWER SUPPLIER | 0.00% |

| | |
|--|--|
| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 48.04 |
| 10. REPORTING YEAR (SAIDI): | 84.66 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.85 |
| 12. REPORTING YEAR (SAIFI): | 2.25 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Feeder inspection to identify equipment for maintenance. |

TREE CAUSE CODE BREAKDOWN

DEAD TREE (IN-ROW) 57.4% GROW IN 42.6%

EQUIPMENT CAUSE CODE BREAKDOWN

INSULATOR 60.0% PORCELAIN CUTOUT 1.2% PROTECTIVE DEVICE 0.9%
OVERLOAD 37.9%

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|---|
| CIRCUIT # 20 | THARP 1 - 5 |
| 1. SUBSTATION NAME AND NUMBER: | THARP 1 (12) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | HARDIN - ST. JOHN RD. - ETOWN |
| 3. CIRCUIT NAME AND NUMBER: | THARP 1 - 5 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | ELIZABETHTOWN, KY - SAINT JOHN RD, RING RD, WEST PARK RD |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 1.60 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 7 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 12/15 |

| | | |
|-----------------------|---|---------------------------------------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR <u>0.00%</u> | PUBLIC ACCIDENTS, OTHER <u>91.34%</u> |
| | EQUIPMENT / MATERIAL FAILURE <u>0.00%</u> | SMALL ANIMALS OR BIRDS <u>0.00%</u> |
| | LIGHTNING <u>0.00%</u> | TREES <u>0.00%</u> |
| | NO CAUSE CODE <u>0.00%</u> | WIND, HIGH WIND <u>0.00%</u> |
| | PLANNED OUTAGE <u>8.66%</u> | WEATHER <u>0.00%</u> |
| | POWER SUPPLIER <u>0.00%</u> | |

| | |
|--|---|
| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 47.12 |
| 10. REPORTING YEAR (SAIDI): | 713.31 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.59 |
| 12. REPORTING YEAR (SAIFI): | 2.29 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Feeder inspection will identify areas for correction. |

TREE CAUSE CODE BREAKDOWN

EQUIPMENT CAUSE CODE BREAKDOWN

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|--|
| CIRCUIT # 21 | SMITHERSVILLE 1 - 4 |
| 1. SUBSTATION NAME AND NUMBER: | SMITHERSVILLE 1 (13) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | HARDIN -S. WILSON & W.A. JENKINS RD. - E-TOWN |
| 3. CIRCUIT NAME AND NUMBER: | SMITHERSVILLE 1 - 4 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | RINEYVILLE, KY - WILSON RD, BOONE RD, HUTCHERON RD |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 12.80 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 876 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 05/20 |

| | | |
|-----------------------|---|--------------------------------------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR <u>53.84%</u> | PUBLIC ACCIDENTS, OTHER <u>0.00%</u> |
| | EQUIPMENT / MATERIAL FAILURE <u>0.00%</u> | SMALL ANIMALS OR BIRDS <u>0.00%</u> |
| | LIGHTNING <u>0.00%</u> | TREES <u>0.00%</u> |
| | NO CAUSE CODE <u>8.26%</u> | WIND, HIGH WIND <u>0.00%</u> |
| | PLANNED OUTAGE <u>37.89%</u> | WEATHER <u>0.00%</u> |
| | POWER SUPPLIER <u>0.00%</u> | |

| | |
|--|---|
| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 18.13 |
| 10. REPORTING YEAR (SAIDI): | 4.44 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.24 |
| 12. REPORTING YEAR (SAIFI): | 0.28 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | One contractor outage was caused by telecommunications contractor |

TREE CAUSE CODE BREAKDOWN

EQUIPMENT CAUSE CODE BREAKDOWN

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT # 22

SOUTH BOUNDARY - 2

| | |
|--|--|
| 1. SUBSTATION NAME AND NUMBER: | SOUTH BOUNDARY (14) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | HARDIN - HWY 313 - RADCLIFF |
| 3. CIRCUIT NAME AND NUMBER: | SOUTH BOUNDARY - 2 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | RADCLIFF, KY - SOUTH BOUNDARY RD (N OF SUB) , WAGON WHEEL TR , LIBERTY ST |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 4.68 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 508 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 03/18 |

| | | | |
|------------------------------|---|-------------------------|-------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | | |
| CONTRACTOR | 0.00% | PUBLIC ACCIDENTS, OTHER | 0.00% |
| EQUIPMENT / MATERIAL FAILURE | 55.66% | SMALL ANIMALS OR BIRDS | 0.00% |
| LIGHTNING | 0.00% | TREES | 2.49% |
| NO CAUSE CODE | 0.00% | WIND, HIGH WIND | 0.00% |
| PLANNED OUTAGE | 41.85% | WEATHER | 0.00% |
| POWER SUPPLIER | 0.00% | | |

| | |
|--|--|
| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 14.68 |
| 10. REPORTING YEAR (SAIDI): | 8.16 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.15 |
| 12. REPORTING YEAR (SAIFI): | 0.20 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Feeder inspection to identify equipment for maintenance. |

TREE CAUSE CODE BREAKDOWN

GROW IN 21.5% NO EQUIP CODE 78.5%

EQUIPMENT CAUSE CODE BREAKDOWN

PROTECTIVE DEVICE 76.6% OVERLOAD 23.4%

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|---|
| CIRCUIT # 23 | SOUTH BOUNDARY - 3 |
| 1. SUBSTATION NAME AND NUMBER: | SOUTH BOUNDARY (14) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | HARDIN - HWY 313 - RADCLIFF |
| 3. CIRCUIT NAME AND NUMBER: | SOUTH BOUNDARY - 3 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | RADCLIFF, KY - SOUTH BOUNDARY RD (N OF SUB) , AUSTIN DR , SHELBY AVE |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 16.21 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 703 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 03/18 |

| | | |
|-----------------------|---|--------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR | 0.00% |
| | PUBLIC ACCIDENTS, OTHER | 0.25% |
| | EQUIPMENT / MATERIAL FAILURE | 85.24% |
| | SMALL ANIMALS OR BIRDS | 0.00% |
| | LIGHTNING | 0.00% |
| | TREES | 13.99% |
| | NO CAUSE CODE | 0.13% |
| | WIND, HIGH WIND | 0.00% |
| | PLANNED OUTAGE | 0.38% |
| | WEATHER | 0.00% |
| | POWER SUPPLIER | 0.00% |

| | |
|-------------------------------------|--------|
| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 30.29 |
| 10. REPORTING YEAR (SAIDI): | 112.41 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.67 |
| 12. REPORTING YEAR (SAIFI): | 2.16 |

| | |
|---|--|
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Feeder inspection to identify equipment for maintenance. |
|---|--|

TREE CAUSE CODE BREAKDOWN DEAD TREE (IN-ROW) 1.9% VEGETATION (I.E. VINES) 0.5% GROW IN 96.7%
NO EQUIP CODE 0.9%

EQUIPMENT CAUSE CODE BREAKDOWN ARRESTER 0.1% CONNECTOR/CLAMP/SPLICE/DEADEND 0.7% INSULATOR
99.2%

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|---|
| CIRCUIT # 24 | SOUTH BOUNDARY - 5 |
| 1. SUBSTATION NAME AND NUMBER: | SOUTH BOUNDARY (14) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | HARDIN - HWY 313 - RADCLIFF |
| 3. CIRCUIT NAME AND NUMBER: | SOUTH BOUNDARY - 5 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | ELIZABETHTOWN, KY - BATTLE TRAINING RD, BEWLEY HOLLOW RD |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 20.44 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 360 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 03/18 |

| | | |
|-----------------------|---|---------------------------------------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR <u>0.00%</u> | PUBLIC ACCIDENTS, OTHER <u>67.62%</u> |
| | EQUIPMENT / MATERIAL FAILURE <u>0.58%</u> | SMALL ANIMALS OR BIRDS <u>0.00%</u> |
| | LIGHTNING <u>0.00%</u> | TREES <u>31.64%</u> |
| | NO CAUSE CODE <u>0.00%</u> | WIND, HIGH WIND <u>0.00%</u> |
| | PLANNED OUTAGE <u>0.16%</u> | WEATHER <u>0.00%</u> |
| | POWER SUPPLIER <u>0.00%</u> | |

| | |
|--|---|
| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 46.09 |
| 10. REPORTING YEAR (SAIDI): | 271.99 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.71 |
| 12. REPORTING YEAR (SAIFI): | 3.21 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Feeder inspection will identify areas for correction. Review ROW conditions and vegetation management cycle. |

TREE CAUSE CODE BREAKDOWN

GROW IN 0.3% GREEN TREE FAILURE (OUT-OF-ROW) 67.5% NO EQUIP CODE
32.2%

EQUIPMENT CAUSE CODE BREAKDOWN

PROTECTIVE DEVICE 100.0%

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|--|
| CIRCUIT # 25 | KARGLE 2 - 5 |
| 1. SUBSTATION NAME AND NUMBER: | KARGLE 2 (15) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | HARDIN - AUTO GLASS DR - ELIZABETHTOWN |
| 3. CIRCUIT NAME AND NUMBER: | KARGLE 2 - 5 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | ELIZABETHTOWN, KY - AUTO GLASS DR |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 0.01 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 1 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | N/A |

| | | |
|-----------------------|---|--------------------------------------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR <u>0.00%</u> | PUBLIC ACCIDENTS, OTHER <u>0.00%</u> |
| | EQUIPMENT / MATERIAL FAILURE <u>100.00%</u> | SMALL ANIMALS OR BIRDS <u>0.00%</u> |
| | LIGHTNING <u>0.00%</u> | TREES <u>0.00%</u> |
| | NO CAUSE CODE <u>0.00%</u> | WIND, HIGH WIND <u>0.00%</u> |
| | PLANNED OUTAGE <u>0.00%</u> | WEATHER <u>0.00%</u> |
| | POWER SUPPLIER <u>0.00%</u> | |

| | |
|--|---|
| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 0.00 |
| 10. REPORTING YEAR (SAIDI): | 44.40 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.00 |
| 12. REPORTING YEAR (SAIFI): | 1.00 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | One Equipment/material outage was caused by a failed metering PT |

TREE CAUSE CODE BREAKDOWN

EQUIPMENT CAUSE CODE BREAKDOWN

NO EQUIP CODE 100.0%

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT # 26

KARGLE 2 - 6

| | |
|--|--|
| 1. SUBSTATION NAME AND NUMBER: | KARGLE 2 (15) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | HARDIN - AUTO GLASS DR - ELIZABETHTOWN |
| 3. CIRCUIT NAME AND NUMBER: | KARGLE 2 - 6 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | ELIZABETHTOWN, KY - AUTO GLASS DR |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 0.80 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 3 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | N/A |

| | | | |
|------------------------------|---|-------------------------|-------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | | |
| CONTRACTOR | 0.00% | PUBLIC ACCIDENTS, OTHER | 0.00% |
| EQUIPMENT / MATERIAL FAILURE | 0.00% | SMALL ANIMALS OR BIRDS | 0.00% |
| LIGHTNING | 0.00% | TREES | 0.00% |
| NO CAUSE CODE | 0.00% | WIND, HIGH WIND | 0.00% |
| PLANNED OUTAGE | 100.00% | WEATHER | 0.00% |
| POWER SUPPLIER | 0.00% | | |

| | |
|--|-------|
| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 0.00 |
| 10. REPORTING YEAR (SAIDI): | 32.60 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.00 |
| 12. REPORTING YEAR (SAIFI): | 0.33 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | |

TREE CAUSE CODE BREAKDOWN

EQUIPMENT CAUSE CODE BREAKDOWN

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|--|
| CIRCUIT # 27 | WILLIAMS - 3 |
| 1. SUBSTATION NAME AND NUMBER: | WILLIAMS (16) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | HARDIN - BARDSTOWN RD. - E-TOWN |
| 3. CIRCUIT NAME AND NUMBER: | WILLIAMS - 3 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | ELIZABETHTOWN, KY - SPRINGFIELD RD, LOCUST GROVE RD, MIDDLE CREEK RD, FORD HWY, VALLEY CREEK RD, MILLER RD, |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 47.27 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 767 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 03/22 |

| | | |
|-----------------------|---|--------------------------------------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR <u>0.00%</u> | PUBLIC ACCIDENTS, OTHER <u>2.51%</u> |
| | EQUIPMENT / MATERIAL FAILURE <u>50.81%</u> | SMALL ANIMALS OR BIRDS <u>4.42%</u> |
| | LIGHTNING <u>14.39%</u> | TREES <u>20.61%</u> |
| | NO CAUSE CODE <u>0.57%</u> | WIND, HIGH WIND <u>0.00%</u> |
| | PLANNED OUTAGE <u>6.68%</u> | WEATHER <u>0.00%</u> |
| | POWER SUPPLIER <u>0.00%</u> | |

| | |
|-------------------------------------|-------|
| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 48.21 |
| 10. REPORTING YEAR (SAIDI): | 28.41 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.82 |
| 12. REPORTING YEAR (SAIFI): | 1.17 |

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

Feeder inspection to identify equipment for maintenance.

TREE CAUSE CODE BREAKDOWN

DEAD TREE (IN-ROW) 88.4% VEGETATION (I.E. VINES) 2.6% GROW IN 3.6%
NO EQUIP CODE 5.4%

EQUIPMENT CAUSE CODE BREAKDOWN

ARRESTER 0.8% CONDUCTOR 80.1% CONNECTOR/CLAMP/SPLICE/DEADEND
1.8% PORCELAIN CUTOUT 0.1% PROTECTIVE DEVICE 17.2%

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|---|
| CIRCUIT # 28 | WILLIAMS - 4 |
| 1. SUBSTATION NAME AND NUMBER: | WILLIAMS (16) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | HARDIN - BARDSTOWN RD. - E-TOWN |
| 3. CIRCUIT NAME AND NUMBER: | WILLIAMS - 4 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | ELIZABETHTOWN, KY - BARDSTOWN RD, N MULBERRY ST EAST OF I-65, BETH CT, |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 13.60 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 459 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 03/17 |

| | | |
|-----------------------|---|--------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR | 0.00% |
| | PUBLIC ACCIDENTS, OTHER | 0.00% |
| | EQUIPMENT / MATERIAL FAILURE | 10.14% |
| | SMALL ANIMALS OR BIRDS | 0.00% |
| | LIGHTNING | 0.00% |
| | TREES | 86.56% |
| | NO CAUSE CODE | 0.00% |
| | WIND, HIGH WIND | 0.00% |
| | PLANNED OUTAGE | 3.30% |
| | WEATHER | 0.00% |
| | POWER SUPPLIER | 0.00% |

| | |
|--|--|
| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 35.25 |
| 10. REPORTING YEAR (SAIDI): | 55.41 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.46 |
| 12. REPORTING YEAR (SAIFI): | 0.46 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Review ROW conditions and vegetation management cycle. |

TREE CAUSE CODE BREAKDOWN

DEAD TREE (IN-ROW) 65.5% VEGETATION (I.E. VINES) 0.3% GROW IN 14.2%
OVERHANG 11.6% NO EQUIP CODE 8.4%

EQUIPMENT CAUSE CODE BREAKDOWN

ARRESTER 1.5% CONDUCTOR 9.1% PROTECTIVE DEVICE 89.4%

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|---|
| CIRCUIT # 29 | LOGSDON - 3 |
| 1. SUBSTATION NAME AND NUMBER: | LOGSDON (18) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | HARDIN - HILL ST (NEAR ETHAN CT) - VINE GROVE |
| 3. CIRCUIT NAME AND NUMBER: | LOGSDON - 3 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | RADCLIFF, KY -W CROCUS DR , ELM RD , N LOGSDON PKWY |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 15.05 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 1010 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 10/17 |

| | | |
|-----------------------|---|--------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR | 0.00% |
| | PUBLIC ACCIDENTS, OTHER | 2.77% |
| | EQUIPMENT / MATERIAL FAILURE | 82.76% |
| | SMALL ANIMALS OR BIRDS | 1.22% |
| | LIGHTNING | 0.00% |
| | TREES | 3.63% |
| | NO CAUSE CODE | 0.00% |
| | WIND, HIGH WIND | 0.00% |
| | PLANNED OUTAGE | 9.63% |
| | WEATHER | 0.00% |
| | POWER SUPPLIER | 0.00% |

| | |
|--|--|
| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 23.66 |
| 10. REPORTING YEAR (SAIDI): | 32.35 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.33 |
| 12. REPORTING YEAR (SAIFI): | 1.30 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Feeder inspection to identify equipment for maintenance. |

TREE CAUSE CODE BREAKDOWN

VEGETATION (I.E. VINES) 13.5% GROW IN 46.5% NO EQUIP CODE 40.1%

EQUIPMENT CAUSE CODE BREAKDOWN

NO EQUIP CODE 86.5% PORCELAIN CUTOUT 4.8% PROTECTIVE DEVICE 1.7%
OVERLOAD 7.1%

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|---|
| CIRCUIT # 30 | LOGSDON - 5 |
| 1. SUBSTATION NAME AND NUMBER: | LOGSDON (18) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | HARDIN - HILL ST (NEAR ETHAN CT) - VINE GROVE |
| 3. CIRCUIT NAME AND NUMBER: | LOGSDON - 5 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | RADCLIFF, KY - W VINE ST, S LOGSDON PKWY |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 7.27 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 526 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 10/17 |

| | | |
|-----------------------|---|--------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR | 0.00% |
| | PUBLIC ACCIDENTS, OTHER | 0.00% |
| | EQUIPMENT / MATERIAL FAILURE | 16.18% |
| | SMALL ANIMALS OR BIRDS | 6.38% |
| | LIGHTNING | 0.00% |
| | TREES | 48.59% |
| | NO CAUSE CODE | 21.90% |
| | WIND, HIGH WIND | 0.00% |
| | PLANNED OUTAGE | 6.95% |
| | WEATHER | 0.00% |
| | POWER SUPPLIER | 0.00% |

| | |
|--|--|
| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 11.11 |
| 10. REPORTING YEAR (SAIDI): | 17.00 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.14 |
| 12. REPORTING YEAR (SAIFI): | 0.55 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Review ROW conditions and vegetation management cycle. |

TREE CAUSE CODE BREAKDOWN

VEGETATION (I.E. VINES) 26.2% GROW IN 73.8%

EQUIPMENT CAUSE CODE BREAKDOWN

CONDUCTOR 12.6% CONNECTOR/CLAMP/SPLICE/DEADEND 0.5%
 TRANSFORMER 72.6% PROTECTIVE DEVICE 14.3%

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|---|
| CIRCUIT # 31 | TUNNEL HILL 2 - 2 |
| 1. SUBSTATION NAME AND NUMBER: | TUNNEL HILL 2 (19) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | HARDIN - TUNNEL HILL RD. - E-TOWN |
| 3. CIRCUIT NAME AND NUMBER: | TUNNEL HILL 2 - 2 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | ETOWN, KY - TUNNEL HILL RD, N MILES ST TO COLONIAL DR |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 9.16 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 497 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 01/19 |

| | | |
|-----------------------|---|--------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR | 0.00% |
| | PUBLIC ACCIDENTS, OTHER | 27.85% |
| | EQUIPMENT / MATERIAL FAILURE | 33.32% |
| | SMALL ANIMALS OR BIRDS | 0.00% |
| | LIGHTNING | 0.00% |
| | TREES | 38.38% |
| | NO CAUSE CODE | 0.00% |
| | WIND, HIGH WIND | 0.00% |
| | PLANNED OUTAGE | 0.45% |
| | WEATHER | 0.00% |
| | POWER SUPPLIER | 0.00% |

| | |
|--|--|
| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 5.25 |
| 10. REPORTING YEAR (SAIDI): | 11.79 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.07 |
| 12. REPORTING YEAR (SAIFI): | 0.16 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Feeder inspection to identify equipment for maintenance. Review ROW conditions and vegetation management cycle. |

TREE CAUSE CODE BREAKDOWN

GROW IN 15.6% GREEN TREE FAILURE (OUT-OF-ROW) 84.4%

EQUIPMENT CAUSE CODE BREAKDOWN

CONDUCTOR 83.8% PROTECTIVE DEVICE 16.2%

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|--|
| CIRCUIT # 32 | TUNNEL HILL 2 - 3 |
| 1. SUBSTATION NAME AND NUMBER: | TUNNEL HILL 2 (19) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | HARDIN - TUNNEL HILL RD. - E-TOWN |
| 3. CIRCUIT NAME AND NUMBER: | TUNNEL HILL 2 - 3 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | ETOWN, KY - TUNNEL HILL CHURCH RD, SAINT JOHN RD |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 62.83 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 1076 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 12/19 |

| | | |
|-----------------------|---|--------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR | 0.00% |
| | PUBLIC ACCIDENTS, OTHER | 31.15% |
| | EQUIPMENT / MATERIAL FAILURE | 42.94% |
| | SMALL ANIMALS OR BIRDS | 0.49% |
| | LIGHTNING | 0.39% |
| | TREES | 21.80% |
| | NO CAUSE CODE | 2.25% |
| | WIND, HIGH WIND | 0.00% |
| | PLANNED OUTAGE | 0.99% |
| | WEATHER | 0.00% |
| | POWER SUPPLIER | 0.00% |

| | |
|--|---|
| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 59.76 |
| 10. REPORTING YEAR (SAIDI): | 90.44 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 1.04 |
| 12. REPORTING YEAR (SAIFI): | 1.44 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Feeder inspection to identify equipment for maintenance. Feeder inspection will identify areas for correction. |

TREE CAUSE CODE BREAKDOWN

DEAD TREE (IN-ROW) 19.3% GROW IN 80.7%

EQUIPMENT CAUSE CODE BREAKDOWN

NO EQUIP CODE 0.1% CONDUCTOR 86.7%
 CONNECTOR/CLAMP/SPLICE/DEADEND 0.1% PORCELAIN CUTOUT 7.5%
 PROTECTIVE DEVICE 5.6%

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT # 33

RINEYVILLE - 3

| | |
|--|---|
| 1. SUBSTATION NAME AND NUMBER: | RINEYVILLE (21) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | HARDIN - OWSLEY RD - RINEYVILLE |
| 3. CIRCUIT NAME AND NUMBER: | RINEYVILLE - 3 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | RINEYVILLE, KY - BERRYTOWN RD, RINEYVILLE BIG SPRINGS RD, RINEYVILLE SCHOOL RD |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 20.36 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 466 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 05/17 |

| | | | |
|------------------------------|---|-------------------------|--------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | | |
| CONTRACTOR | 0.00% | PUBLIC ACCIDENTS, OTHER | 0.00% |
| EQUIPMENT / MATERIAL FAILURE | 8.21% | SMALL ANIMALS OR BIRDS | 0.00% |
| LIGHTNING | 1.33% | TREES | 63.68% |
| NO CAUSE CODE | 0.00% | WIND, HIGH WIND | 0.00% |
| PLANNED OUTAGE | 26.78% | WEATHER | 0.00% |
| POWER SUPPLIER | 0.00% | | |

| | |
|--|--|
| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 5.34 |
| 10. REPORTING YEAR (SAIDI): | 16.01 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.09 |
| 12. REPORTING YEAR (SAIFI): | 0.14 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Review ROW conditions and vegetation management cycle. |

TREE CAUSE CODE BREAKDOWN

GROW IN 1.5% GREEN TREE FAILURE (OUT-OF-ROW) 98.5%

EQUIPMENT CAUSE CODE BREAKDOWN

CONDUCTOR 10.3% TRANSFORMER 30.9% PROTECTIVE DEVICE 58.9%

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|--|
| CIRCUIT # 34 | RINEYVILLE - 4 |
| 1. SUBSTATION NAME AND NUMBER: | RINEYVILLE (21) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | HARDIN - OWSLEY RD - RINEYVILLE |
| 3. CIRCUIT NAME AND NUMBER: | RINEYVILLE - 4 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | RINEYVILLE, KY - BERRYTOWN RD, BLUE BALL RD, SALT RIVER RD |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 51.88 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 428 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 04/17 |

| | | |
|-----------------------|---|--------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR | 0.00% |
| | PUBLIC ACCIDENTS, OTHER | 0.73% |
| | EQUIPMENT / MATERIAL FAILURE | 72.87% |
| | SMALL ANIMALS OR BIRDS | 0.00% |
| | LIGHTNING | 2.16% |
| | TREES | 20.16% |
| | NO CAUSE CODE | 2.61% |
| | WIND, HIGH WIND | 0.00% |
| | PLANNED OUTAGE | 1.46% |
| | WEATHER | 0.00% |
| | POWER SUPPLIER | 0.00% |

| | |
|---|--|
| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 45.12 |
| 10. REPORTING YEAR (SAIDI): | 65.89 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.42 |
| 12. REPORTING YEAR (SAIFI): | 0.73 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Feeder inspection to identify equipment for maintenance. |

TREE CAUSE CODE BREAKDOWN

GREEN TREE FAILURE (OUT-OF-ROW) 100.0%

EQUIPMENT CAUSE CODE BREAKDOWN

POLE/CROSSARM 43.9% CONDUCTOR 52.4% PORCELAIN CUTOUT 2.1%
PROTECTIVE DEVICE 1.5%

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|--|
| CIRCUIT # 35 | RINEYVILLE - 5 |
| 1. SUBSTATION NAME AND NUMBER: | RINEYVILLE (21) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | HARDIN - OWSLEY RD - RINEYVILLE |
| 3. CIRCUIT NAME AND NUMBER: | RINEYVILLE - 5 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | RINEYVILLE, KY - OWSLEY RD, RINEYVILLE RD, HARGAN RD, PICKERELL LN, BENNET RD, BLACKBURN RD |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 29.43 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 521 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 05/17 |

| | | |
|-----------------------|---|--------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR | 0.00% |
| | PUBLIC ACCIDENTS, OTHER | 45.99% |
| | EQUIPMENT / MATERIAL FAILURE | 48.44% |
| | SMALL ANIMALS OR BIRDS | 0.94% |
| | LIGHTNING | 0.00% |
| | TREES | 4.02% |
| | NO CAUSE CODE | 0.00% |
| | WIND, HIGH WIND | 0.00% |
| | PLANNED OUTAGE | 0.57% |
| | WEATHER | 0.03% |
| | POWER SUPPLIER | 0.00% |

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| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 26.28 |
| 10. REPORTING YEAR (SAIDI): | 144.97 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.52 |
| 12. REPORTING YEAR (SAIFI): | 2.28 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Feeder inspection to identify equipment for maintenance. Feeder inspection will identify areas for correction. |

TREE CAUSE CODE BREAKDOWN

GROW IN 97.6% NO EQUIP CODE 2.4%

EQUIPMENT CAUSE CODE BREAKDOWN

CONNECTOR/CLAMP/SPLICE/DEADEND 0.2% INSULATOR 84.8% PORCELAIN
 CUTOUT 5.3% TRANSFORMER 0.1% PROTECTIVE DEVICE 9.5%

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|---|
| CIRCUIT # 36 | THARP 2 - 3 |
| 1. SUBSTATION NAME AND NUMBER: | THARP 2 (22) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | HARDIN - ST. JOHN RD. - ETOWN |
| 3. CIRCUIT NAME AND NUMBER: | THARP 2 - 3 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | ELIZABETHTOWN, KY - SAINT JOHN RD, RING RD, WEST PARK RD |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 1.01 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 1 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 05/15 |

| | | |
|-----------------------|---|--|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR <u>0.00%</u> | PUBLIC ACCIDENTS, OTHER <u>100.00%</u> |
| | EQUIPMENT / MATERIAL FAILURE <u>0.00%</u> | SMALL ANIMALS OR BIRDS <u>0.00%</u> |
| | LIGHTNING <u>0.00%</u> | TREES <u>0.00%</u> |
| | NO CAUSE CODE <u>0.00%</u> | WIND, HIGH WIND <u>0.00%</u> |
| | PLANNED OUTAGE <u>0.00%</u> | WEATHER <u>0.00%</u> |
| | POWER SUPPLIER <u>0.00%</u> | |

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| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 14.40 |
| 10. REPORTING YEAR (SAIDI): | 39.60 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.40 |
| 12. REPORTING YEAR (SAIFI): | 2.00 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Feeder inspection will identify areas for correction. |

TREE CAUSE CODE BREAKDOWN

EQUIPMENT CAUSE CODE BREAKDOWN

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|---|
| CIRCUIT # 37 | ROANOKE - 1 |
| 1. SUBSTATION NAME AND NUMBER: | ROANOKE (23) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | LARUE - GRAY RD - ROANOKE |
| 3. CIRCUIT NAME AND NUMBER: | ROANOKE - 1 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | HODGENVILLE, KY - RIVER RD, LAFOLLETTE RD |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 8.77 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 96 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 10/22 |

| | | |
|-----------------------|---|--------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR | 0.00% |
| | PUBLIC ACCIDENTS, OTHER | 0.00% |
| | EQUIPMENT / MATERIAL FAILURE | 9.91% |
| | SMALL ANIMALS OR BIRDS | 0.00% |
| | LIGHTNING | 0.00% |
| | TREES | 0.00% |
| | NO CAUSE CODE | 0.00% |
| | WIND, HIGH WIND | 0.00% |
| | PLANNED OUTAGE | 1.52% |
| | WEATHER | 0.00% |
| | POWER SUPPLIER | 88.58% |

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| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 83.33 |
| 10. REPORTING YEAR (SAIDI): | 84.92 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.86 |
| 12. REPORTING YEAR (SAIFI): | 1.04 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Nolin RECC to work with EKPC to review remedies for transmission/substation reliability issues. |

TREE CAUSE CODE BREAKDOWN

EQUIPMENT CAUSE CODE BREAKDOWN

CONDUCTOR 1.8% PORCELAIN CUTOUT 17.2% PROTECTIVE DEVICE 81.0%

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|--|
| CIRCUIT # 38 | ROANOKE - 2 |
| 1. SUBSTATION NAME AND NUMBER: | ROANOKE (23) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | LARUE - GRAY RD - ROANOKE |
| 3. CIRCUIT NAME AND NUMBER: | ROANOKE - 2 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | HODGENVILLE, KY - DAN DUNN RD,SLACK RD,MARTIN RD,SPENCER SCHOOL RD,CISSAL HILL RD |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 22.65 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 182 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 09/22 |

| | | |
|-----------------------|---|--------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR | 0.00% |
| | PUBLIC ACCIDENTS, OTHER | 0.00% |
| | EQUIPMENT / MATERIAL FAILURE | 8.49% |
| | SMALL ANIMALS OR BIRDS | 0.29% |
| | LIGHTNING | 0.00% |
| | TREES | 18.27% |
| | NO CAUSE CODE | 0.00% |
| | WIND, HIGH WIND | 0.00% |
| | PLANNED OUTAGE | 0.60% |
| | WEATHER | 7.28% |
| | POWER SUPPLIER | 65.06% |

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| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 47.27 |
| 10. REPORTING YEAR (SAIDI): | 118.71 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 0.69 |
| 12. REPORTING YEAR (SAIFI): | 1.49 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Nolin RECC to work with EKPC to review remedies for transmission/substation reliability issues. |

TREE CAUSE CODE BREAKDOWN

GROW IN 3.5% GREEN TREE FAILURE (OUT-OF-ROW) 96.5%

EQUIPMENT CAUSE CODE BREAKDOWN

PORCELAIN CUTOUT 11.2% TRANSFORMER 4.8% PROTECTIVE DEVICE 84.0%

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|-------------------------------|
| CIRCUIT # 39 | ROANOKE - 3 |
| 1. SUBSTATION NAME AND NUMBER: | ROANOKE (23) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | LARUE - GRAY RD - ROANOKE |
| 3. CIRCUIT NAME AND NUMBER: | ROANOKE - 3 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | HODGENVILLE, KY - DAN DUNN RD |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 26.80 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 251 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 07/22 |

| | | |
|-----------------------|---|--------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR | 0.00% |
| | EQUIPMENT / MATERIAL FAILURE | 0.13% |
| | LIGHTNING | 0.00% |
| | NO CAUSE CODE | 0.00% |
| | PLANNED OUTAGE | 1.73% |
| | POWER SUPPLIER | 73.06% |
| | PUBLIC ACCIDENTS, OTHER | 0.00% |
| | SMALL ANIMALS OR BIRDS | 0.00% |
| | TREES | 25.08% |
| | WIND, HIGH WIND | 0.00% |
| | WEATHER | 0.00% |

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| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 98.52 |
| 10. REPORTING YEAR (SAIDI): | 102.21 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 1.03 |
| 12. REPORTING YEAR (SAIFI): | 1.11 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Nolin RECC to work with EKPC to review remedies for transmission/substation reliability issues. |

TREE CAUSE CODE BREAKDOWN

NO EQUIP CODE 100.0%

EQUIPMENT CAUSE CODE BREAKDOWN

ARRESTER 57.4% PORCELAIN CUTOUT 42.6%

SECTION 5: CIRCUIT REPORTING
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

| | |
|--|--|
| CIRCUIT # 40 | ROANOKE - 4 |
| 1. SUBSTATION NAME AND NUMBER: | ROANOKE (23) |
| 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): | LARUE - GRAY RD - ROANOKE |
| 3. CIRCUIT NAME AND NUMBER: | ROANOKE - 4 |
| 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA): | HODGENVILLE, KY - GRAY RD, VALLEY CREEK RD |
| 5. TOTAL CIRCUIT LENGTH (MILES): | 34.28 |
| 6. CUSTOMER COUNT FOR THIS CIRCUIT: | 478 |
| 7. DATE OF LAST CIRCUIT TRIM (MM/YY): | 11/22 |

| | | |
|-----------------------|---|--------|
| 8. LIST OF OUTAGE(S): | OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES): | |
| | CONTRACTOR | 0.00% |
| | EQUIPMENT / MATERIAL FAILURE | 0.11% |
| | LIGHTNING | 0.00% |
| | NO CAUSE CODE | 0.00% |
| | PLANNED OUTAGE | 1.83% |
| | POWER SUPPLIER | 32.13% |
| | PUBLIC ACCIDENTS, OTHER | 0.00% |
| | SMALL ANIMALS OR BIRDS | 10.47% |
| | TREES | 53.12% |
| | WIND, HIGH WIND | 2.35% |
| | WEATHER | 0.00% |

| | |
|---|---|
| 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): | 131.32 |
| 10. REPORTING YEAR (SAIDI): | 240.11 |
| 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): | 1.66 |
| 12. REPORTING YEAR (SAIFI): | 2.74 |
| 13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN | Nolin RECC to work with EKPC to review remedies for transmission/substation reliability issues. Circuit was trimmed |

TREE CAUSE CODE BREAKDOWN

GREEN TREE FAILURE (OUT-OF-ROW) 99.1% NO EQUIP CODE 0.9%

EQUIPMENT CAUSE CODE BREAKDOWN

CONNECTOR/CLAMP/SPLICE/DEADEND 48.1% PORCELAIN CUTOUT 51.9%

SECTION 6: VEGETATION MANAGEMENT PLAN REVIEW
INCLUDE CURRENT VEGETATION MANGEMENT PLAN

See attached "Vegetation Management Program" PDF file

SECTION 7: UTILITY COMMENTS