

APR 30 2019

PUBLIC SERVICE
COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 1: CONTACT INFORMATION

| | |
|----------------------------|---|
| UTILITY NAME | <u>Kentucky Power Company</u> |
| REPORT PREPARED BY | <u>Everett G. Phillips</u> |
| E-MAIL ADDRESS OF PREPARER | <u>egphillips@aep.com</u> |
| PHONE NUMBER OF PREPARER | <u>(606) 327-2610</u> |

SECTION 2: REPORT YEAR

| | |
|-------------------------|-------------|
| CALENDAR YEAR OF REPORT | <u>2018</u> |
|-------------------------|-------------|

SECTION 3: MAJOR EVENT DAYS

| | |
|-----------------------------------|------------------|
| TMED | <u>23.3334</u> |
| FIRST DATE USED TO DETERMINE TMED | <u>1-Jan-13</u> |
| LAST DATE USED TO DETERMINE TMED | <u>31-Dec-17</u> |
| NUMBER OF MED IN REPORT YEAR | <u>3</u> |

NOTE: Per IEEE 1366 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 are accumulated.

SECTION 4: SYSTEM RELIABILITY INFORMATION AND RESULTS

System Wide Information

| | | | |
|-----------------|----------------|----------------|------------|
| Total Customers | <u>165,072</u> | Total Circuits | <u>224</u> |
|-----------------|----------------|----------------|------------|

Excluding MED

| | 5 Year Average | | Reporting Year |
|-------|-----------------------|-------|-----------------------|
| SAIDI | <u>461.94</u> | SAIDI | <u>484.15</u> |
| SAIFI | <u>2.304</u> | SAIFI | <u>2.342</u> |

Including MED

| | 5 Year Average | | Reporting Year |
|-------|-----------------------|--|-----------------------|
| SAIDI | <u>739.39</u> | | <u>624.26</u> |
| SAIFI | <u>2.589</u> | | <u>2.554</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.

The Total Customer count is equal to the number of metered customer accounts on 5) December 31, 2018.

Electric Distribution Utility Annual Reliability Report

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
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
3. CIRCUIT NAME AND NUMBER
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
5. TOTAL CIRCUIT LENGTH (MILES)
6. CUSTOMER COUNT FOR THIS CIRCUIT
7. DATE OF LAST CIRCUIT TRIM (VM)
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
10. REPORTING YEAR (SAIDI)
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
12. REPORTING YEAR (SAIFI)
13. CORRECTIVE ACTION PLAN

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

Please see Attachment 1 for Section 5: Circuit Reporting

Note: Circuits sorted according to reporting year SAIDI

Electric Distribution Utility Annual Reliability Report

Additional pages may be attached as necessary

SECTION 6: VEGETATION MANAGEMENT PLAN REVIEW

See attached copy of Kentucky Power Company's 2018 Vegetation Management Report, filed April 1, 2019, in conformity with Paragraph 8(d) of the Settlement Agreement, Appendix A to the Commission's June 22, 2015 order in Case No. 2014-00396.

SECTION 7: UTILITY COMMENTS

Excluding major events as defined by IEEE standard 1366, Kentucky Power's 2018 overall SAIDI and SAIFI indexes were 484.15 and 2.342, which was an increase over the rolling five-year averages for the respective indexes of 461.94 and 2.304.

Overall, the Company's reliability declined in 2018, mostly due to record or near record rainfall over most of its service territory. The rain was accompanied by frequent storms with wind and lightning. The heavy rains also caused mud/landslides that contributed to numerous outages especially in the last quarter of the year.

Distribution line interruptions caused by Trees Outside of ROW continue to have the most significant impact on reliability and contribute to over 40% of the Company's overall SAIDI. Given the nature of its largely forested territory, the Company experiences significantly more events impacting reliability caused by trees. Kentucky is home to more than 253,285,915 ash trees, and there are 29,383,416 ash trees in the 20 counties (minus Elliott County) comprising the Company's service territory. The destructive emerald ash borer was discovered in Kentucky in 2009, has spread throughout the Commonwealth, and has been identified in every one of the counties in Kentucky Power's service territory. When a tree becomes infested with emerald ash borer, it dies within three to five years. Infected trees are more vulnerable to falling down or blowing over during inclement weather. Kentucky Power's service territory includes the more mountainous and forested areas of the Commonwealth.

In 2018, the Company started a multi-year capital project to address Tree Outside of ROW outages with initial funding of \$6.5 million for 2018. Upon securing property owners' permission, forestry crews are selectively removing large trees that threaten distribution circuits and facilities and performing targeted ROW widening. The project will also address the growing problem associated with the emerald ash borer. The Company removed 18,392 trees under the new project in 2018 and plans to remove more than 20,000 trees in 2019.

Despite the challenges posed by trees outside of ROW, Kentucky Power continues to see positive results from its vegetation management program targeting trees and vines inside of ROW. The Company began a five-year circuit re-clearing cycle in January 2019. Tree Inside of ROW and VINE outages have declined significantly, with only 679 outages for 2018 compared to 3,184 outages in 2009 - the year before the Company began to significantly increase funding and resources to re-clear distribution circuits. The Company began to separately report VINE outages in 2011. Previously, outages caused by vines were reported as Tree Inside of ROW. The five year average for Tree Inside of ROW and VINE outages was 1,089.

The Company's 2018 total customer minutes of interruption including JMEDs declined to 103,047,595 from the rolling five-year average of 123,684,361.

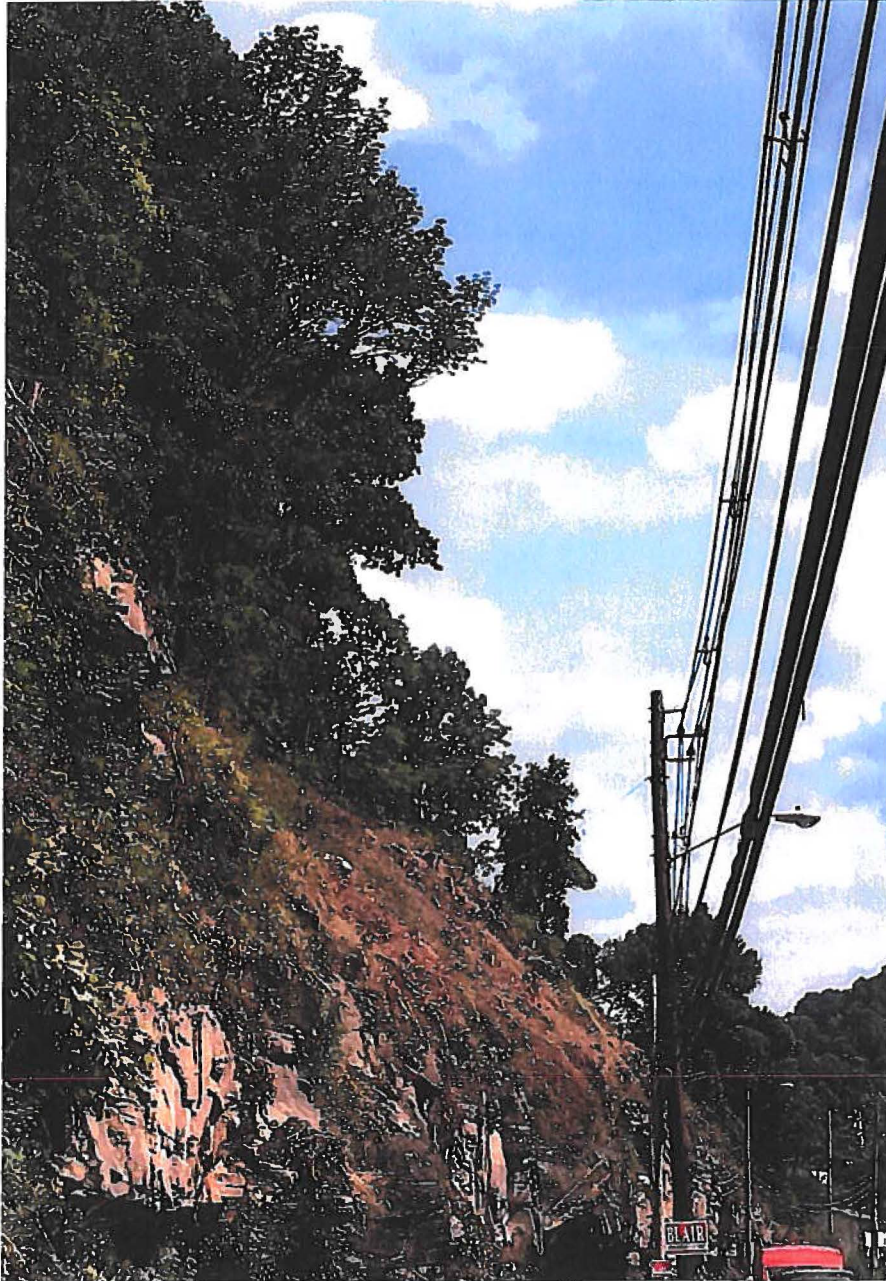
Kentucky Power Company remains committed to its reliability and vegetation management programs to provide and improve reliable service to its customers. In addition to the proactive program to address Tree Out of ROW outages, the Company has begun to analyze and implement a program to greatly increase the penetration of Distribution Automation and Circuit Reconfiguration (DACR) in the Company's distribution grid.

RECEIVED

APR 01 2019

PUBLIC SERVICE
COMMISSION

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION



Right-of-Way
Widening

Bluegrass/Walkertown circuit located on Main Street in Hazard, Ky, following the widening of the right-of-way to remove vegetation on the hillside. The widening helps to protect the circuit by removing trees that could fall onto the circuit or poles. Right of way widening is a capital investment.

(Photo taken June 2018)

2018 DISTRIBUTION VEGETATION MANAGEMENT
REPORT OF KENTUCKY POWER COMPANY

April 1, 2019

In accordance with the Public Service Commission's June 22, 2015 Order in Case No. 2014-00396, as modified by its January 18, 2018 Order in Case No. 2017-00179, Kentucky Power Company provides the following report regarding the operation of its 2018 Distribution Vegetation Management Program.

INTRODUCTION

Kentucky Power in 2018 completed clearing (Task 1 work) the more-than 8,100 miles of its distribution primary right-of-way. Kentucky Power also completed sufficient re-clearing (Task 2 work) during 2018 to allow the Company to begin its five-year cycle (Task 3 work) right-of-way maintenance January 1, 2019.¹

Since the Vegetation Management Program began in July 2010, the annual number of Tree Inside Right-of Way outages (excluding major event days) has been reduced by approximately 71.3%, from 2,250 to 645. The annual number of customer minutes of interruption associated with these events has been reduced by approximately 79.3%, from 12,280,664 to 2,539,186. Vegetation growth in the Company's rights-of-way as of January 1, 2019 averaged slightly more than five (5.13) years.

BACKGROUND

With approval from the Public Service Commission in Case No. 2017-00179, Kentucky Power in 2018 modified its 2015 vegetation management plan to provide the most economical and reliable forestry plan for its customers. The modification, which consisted of accelerating the more costly Task 1 work, permitted Kentucky Power to begin a five-year cycle based vegetation management program effective January 1, 2019, or approximately six months earlier than forecasted in Case No. 2014-00396.

Beginning January 1, 2019, and in accordance with the Commission's January 18, 2018 Order in Case No. 2017-00179, Kentucky Power is now performing cycle-based vegetation management maintenance work on its distribution right-of-way. The principal characteristics of its current distribution right-of-way vegetation management program are:

- The 8,113 miles of Kentucky Power's distribution system right-of-way will be re-cleared on a five-year cycle. The Company will on average re-clear approximately 1,620 miles of right-of-way each year;
- Annual O&M expenditures for the five-year cycle will average approximately \$21.465 million;

¹ Kentucky Power began performing only cycle-based right-of-way maintenance work (Task 3 work) effective January 1, 2019. The Company proposes to eliminate references to Task 1, Task 2, and Task 3 in this and future reports and plans except as required for historical reporting purposes.

- Kentucky Power will file no later than September 30 of each year its distribution vegetation management work plan for the upcoming calendar year. The report will provide the same type of information as earlier plans, including identifying on a circuit-by-circuit basis the planned work and O&M expenditures, for the upcoming calendar year;
- Kentucky Power will notify the Commission and obtain approval for any deviations from the filed work plan equal to or greater than 10% (approximately \$2.147 million) of the aggregate planned O&M expenditures;
- The one-way balancing account established by the Commission's June 22, 2015 order in Case No. 2014-00396 is being continued. Expenditures are to be credited against the annual budget detailed in the Company's application in Case No. 2017-00179 (Table 9 of the direct testimony of Everett G. Phillips). Any annual shortfall or excess in expenditures is to be applied to the account balance; and
- Kentucky Power will file on or before April 1 of each year a report of its distribution vegetation management activity and reliability performance for the prior calendar year. The report also will provide on a circuit-by-circuit basis the work completed and actual O&M expenditures for the prior year.

2018 Distribution Vegetation Management Expenditures and Right-of-Way Work Performed

Total 2018 O&M expenditures for Kentucky Power's Distribution Vegetation Management program were \$21,779,501. Total 2018 Distribution Vegetation Management O&M expenditures exceeded the 2018 level of O&M expenditures (\$21,638,766) proposed by Kentucky Power in its 2018 Vegetation Management Plan by \$140,735 (0.7%).

Task 1 O&M expenditures in 2018 were \$4,994,934. This expenditure level was approximately 206% of the \$2,419,648 proposed by Kentucky Power in its 2018 Vegetation Management Plan. The increased expenditures resulted from shifting into 2018 the 72 miles of Task 1 work and corresponding ground spraying that was not completed in 2017 as originally scheduled. Completing this additional Task 1 work in 2018 allowed Kentucky Power to transition to a cycle-based vegetation management plan (with its concomitantly lower revenue requirement) on January 1, 2019.

Task 2 O&M expenditures in 2018 were \$16,784,567 or 87.3% of the targeted level of \$19,219,118 (-\$2,434,551). The previously designated Task 2 expenditures were shifted to fund the increased 2018 Task 1 work required to permit the Company to transition to a five-year cycle earlier than previously projected. Notwithstanding the reduced 2018 Task 2 work, Kentucky Power successfully transitioned to the five-year maintenance cycle effective January 1, 2019.

Task 1 and Task 2 distribution vegetation management capital investments in 2018 totaled \$3,124,617. Actual capital investments exceeded the targeted level of \$2,259,463 by \$865,154. The majority of the increased capital investments involved the removal of trees with diameters of 18 inches or greater from rights-of-way.

2018 Vegetation Management Mileage Cleared

Kentucky Power completed 216 miles of Task 1 work in 2018 and 1,341 miles of Task 2 work during the year. Table 1 below compares the 2018 work completed to the projections contained in its modified Plan:

| Table 1: 2018 Work Plan (April 2018 Filing) | | |
|--|---------------------------|-----------------------------|
| Work/Task | 2018 Miles Planned | 2018 Completed Miles |
| Task 1 | 216 | 216 |
| Task 2 | 1,496 | 1,341 |
| Acres Sprayed | 2,925 | 3,257 |

Kentucky Power planned 216 miles of Task 1 work and 1,496 miles of Task 2 work in 2018. To permit the Company to complete all remaining Task 1 work in 2018 and thereby transition to a cycle-based plan in 2019, Kentucky Power in April 2018 increased the Task 1 work to be performed in 2018 to include the 72 miles of Task 1 work scheduled for 2017 that was not completed in 2017. The increased Task 1 work resulted in a decrease of Task 2 work that could be performed in 2018. In addition to shifting funding from Task 2 work to the more expensive Task 1 work,² Kentucky Power sprayed an additional 332 acres (in addition to the planned 2,925 acres) in connection with the increased Task 1 work. The additional spraying reduced the funding available for Task 2 work by an additional \$185,920. Notwithstanding the reduced level of Task 2 work performed in 2018, Kentucky Power successfully transitioned on January 1, 2019 to a five-year cycle-based vegetation management plan

O&M and Capital work associated with the 2018 Vegetation Management activities included removing 254,676 trees, trimming 65,284 trees, and clearing 3,380 acres of brush. The Company also sprayed 3,257 acres to control vegetation and thereby limit vegetation growth between cycles.

² The greater work required for the initial clearing of rights-of-way results in Task 1 work is approximately 23% more expensive per mile than Task 2 work.

2018 Distribution Vegetation Management Work by District

Table 2 below details the Company's 2018 District O&M expenditures by district. Certain O&M expenditures, including Internal Labor & Fleet, unscheduled hotspot maintenance, trouble restoration work, tree ticket investigation, auditor expenses, and tree contractor's field supervision cannot be allocated on a per-circuit basis. The amounts that cannot be assigned to a specific circuit are included in the Task 1 and Task 2 totals and per district expenditures below.

| Table 2: 2018 Details of District O&M Expenditures | | | | |
|---|--------------------|--------------------|--------------------|-----------------------|
| Nature of Expense | Ashland | Hazard | Pikeville | Kentucky Total |
| Task 1 | \$1,590,311 | \$1,012,200 | \$2,284,247 | \$4,886,758 |
| Internal Labor Task 1 | \$38,218 | \$22,864 | \$47,093 | \$108,175 |
| Subtotal Task 1 | \$1,628,530 | \$1,035,064 | \$2,331,340 | \$4,994,934 |
| Task 2 | \$4,241,169 | \$6,761,966 | \$5,415,677 | \$16,418,812 |
| Internal Labor Task 2 | \$106,410 | \$139,682 | \$119,663 | \$365,755 |
| Subtotal Task 2 | \$4,347,579 | \$6,901,648 | \$5,535,340 | \$16,784,567 |
| TOTAL | \$5,976,109 | \$7,936,711 | \$7,866,680 | \$21,779,501 |

Table 3 below provides the 2018 Task 1 and Task 2 work performed by district in miles cleared and acres sprayed.

| Table 3: 2018 Actual District Mileage Performed Task 1 & 2 Mileage | | | | |
|---|----------------|---------------|------------------|-----------------------|
| Work Task | Ashland | Hazard | Pikeville | Kentucky Total |
| Task 1 | 72.7 | 60.7 | 82.3 | 215.7 |
| Task 2 | 370.9 | 497.5 | 472.5 | 1340.9 |
| Total Re-Clear Miles | 443.6 | 558.2 | 554.8 | 1556.6 |
| Acres Sprayed | 644.4 | 958.5 | 1654.5 | 3257.4 |

Attachment 1 to this report details the 2018 Task 1 vegetation management work and expenditures by circuit. Attachment 2 similarly reports the 2018 Task 2 vegetation management work and expenditures by circuit. Both attachments provide the number of miles of circuit completed for each task, acres of brush cut, acres of brush sprayed, amount of tree growth regulator (soil injection) applied, number of trees removed, and number of trees trimmed.

Measures of Improvement in System Reliability (SAIFI, CAIDI, SAIDI, and CMI)

Table 4 provides total system reliability indices for Kentucky Power’s distribution system from 2010 (when the Vegetation Management Program began) through December 31, 2018.

Table 5 provides reliability indices limited to Tree Inside of Rights-of-Way outages for the same period.

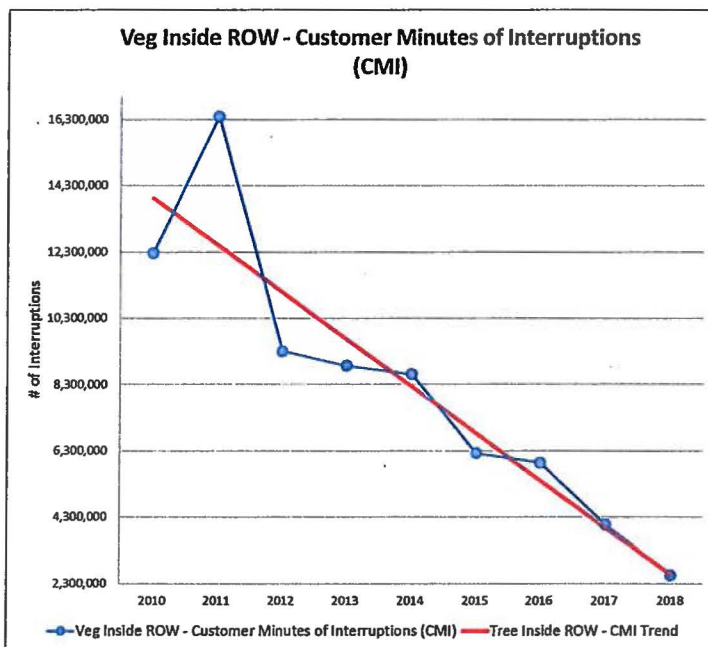
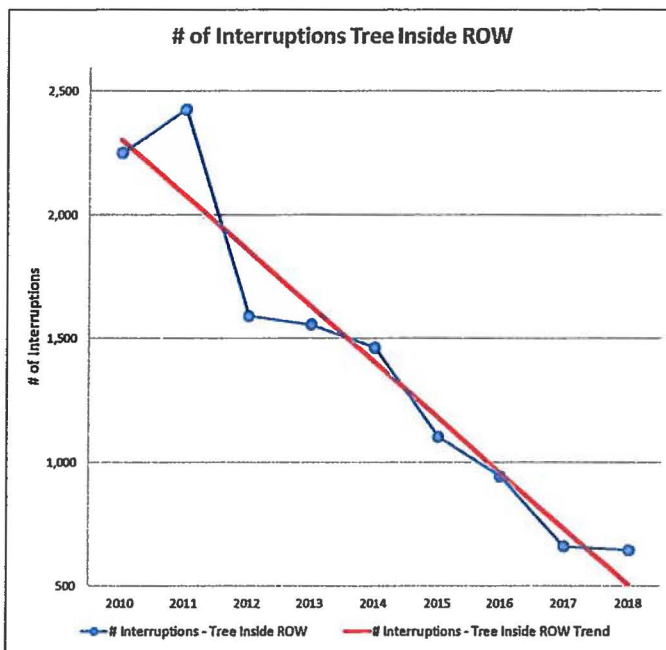
Table 4 and Table 5 include data relating to the System Average Interruption Frequency Index (“SAIFI”), the Customer Average Interruption Duration Index (“CAIDI”), and the System Average Interruption Duration Index (“SAIDI”) for each reporting period. Excluded from the calculation of the indices are major events as defined by IEEE standard 1366.

| Year | SAIFI | CAIDI | SAIDI |
|------|-------|--------|-------|
| 2010 | 2.470 | 169.4 | 418.4 |
| 2011 | 3.085 | 195.4 | 602.8 |
| 2012 | 2.417 | 189.5 | 458.0 |
| 2013 | 2.144 | 178.5 | 382.7 |
| 2014 | 2.373 | 212.9 | 505.3 |
| 2015 | 2.467 | 189.8 | 468.1 |
| 2016 | 2.167 | 205.7 | 445.8 |
| 2017 | 2.169 | 187.3 | 406.3 |
| 2018 | 2.342 | 206.77 | 484.2 |

| Year | Tree Inside Right-of-Way SAIFI | Tree Inside Right-of-Way CAIDI | Tree Inside Right-of-Way SAIDI |
|-----------------|--------------------------------|--------------------------------|--------------------------------|
| 2010 | 0.3714 | 190.8 | 70.87 |
| 2011 | 0.4192 | 227.4 | 95.32 |
| 2012 | 0.2562 | 258.8 | 66.31 |
| 2013 | 0.2815 | 184.3 | 51.88 |
| 2014 | 0.2154 | 236.3 | 50.89 |
| 2015 | 0.1782 | 207.6 | 37.00 |
| 2016 | 0.1719 | 207.2 | 35.61 |
| 2017 | 0.1137 | 216.7 | 24.63 |
| Avg (2010 - 17) | 0.2509 | 216.1 | 54.06 |
| 2018 | 0.0745 | 204.8 | 15.26 |

Table 5 highlights the efficacy of the Company’s Distribution Vegetation Management Program. The 2018 Tree Inside Right-of-Way SAIFI and SAIDI metrics are respectively 70.3% below, and 71.8% below the average Tree Inside Right-of-Way SAIFI, and SAIDI metrics for the period 2010-2017. The CAIDI metrics remained flat for this same time period: an average duration of 216.1 minutes vs. the 2018 metric of 204.8 minutes. This is consistent with the nature of CAIDI, which measures the duration or amount of time for crews to respond, assess and identify the trouble, and remove any debris that may have caused the outage.

Since the Distribution Vegetation Management Program began in July 2010, the annual number of Tree Inside Right-of-Way outages (excluding major event days) has been reduced by approximately 71.3%, from 2,250 to 645. The annual number of customer minutes of interruption (CMI) associated with these events has been reduced by approximately 79.3%, from 12,280,664 to 2,539,186.



Vegetation Management Program-to-Date Expenditures

Kentucky Power filed vegetation management plans indicating it would spend \$176,863,044 on Vegetation Management O&M from the beginning of the program July 1, 2010 through December 31, 2018. In that period, the Company spent \$178,737,669, or \$1,874,625 (1.06%) more than planned.

Kentucky Power has trimmed 656,724 trees, cleared 20,029 acres (31.3 square miles) of brush, sprayed 22,178 acres to control vegetation, and removed 2,224,797 trees since the vegetation management program began July 1, 2010.

Balancing Account

Paragraph 8 (e)(ii) of the Settlement Agreement in Case No. 2014-00396 established a one-way balancing account beginning July 1, 2015. The Settlement Agreement contemplated that the Company would transition to a five-year cycle based vegetation management plan effective July 1, 2019. Any regulatory liability associated with the balancing account would “continue to be recorded on the Company’s books until the Commission set [] base rates in the Company’s next base rate case.” The Commission’s January 18, 2018 order in Case No. 2017-00179 continued the balancing account effective January 19, 2019 and modified the required annual expenditure levels going forward to reflect the amounts detailed in Table 9 of Mr. Phillips’ direct testimony in the case.

The account reflects the Company’s obligation to make \$27,661,060 in Vegetation Management O&M expenditures annually from July 1, 2015³ through December 31, 2017. Consistent with the Commission’s order in Case No. 2017-00179, and Table 9 (page 46) of Company Witness Phillips’ direct testimony in that case, the 2018 balancing account target was \$21,638,766. The balancing account balance at December 31, 2018 was \$224,340.

| Table 6: Kentucky Power Balancing Account Vegetation Management Program Dollars | | | |
|--|-----------------------------|---------------------------|-------------------|
| Year | Required Expenditure | Actual Expenditure | Variance |
| 2015 | \$13,830,530 | \$13,620,717 | -\$209,813 |
| 2016 | \$27,661,060 | \$27,774,546 | \$113,486 |
| 2017 | \$27,661,060 | \$27,840,992 | \$179,932 |
| 2018 | \$21,638,766 | \$21,779,501 | \$140,735 |
| Total | \$90,791,416 | \$91,015,756 | \$224,340 |

³ July 1, 2015 through December 31, 2015 expenditures were prorated using 50% of \$27,661,060 to reflect the effective date of the increased expenditures associated with the establishment of the balancing account.

Attachment Description

The following attachments are incorporated in this report:

Attachment 1 – provides a detailed summary of Task 1 work completed in 2018 at circuit level within each district.

Attachment 2 – provides a detailed summary of Task 2 work completed in 2018 at circuit level within each district.

Attachment 3 – provides the five-year cycle plan for 2019 at circuit level by district.

Attachment 4 – provides the updated Spray plan for 2019 at the district level.

Attachment 5 – provides a recapitulation of updated planned 2019 O&M expenditures (including amounts that cannot be allocated on a circuit basis) by district and projected 2019 capital expenditures by district. The 2019 capital expenditures include, as was detailed in the Company's 2019 Vegetation Management Plan, a pilot capital investment program to widen the Company's existing rights-of-way to address outside of the right-of-way causes of outages, including particularly, trees killed by the emerald ash borer.

Attachment 1 – Task 1 work completed in 2018

| 2018 KY POWER FORESTRY CIRCUIT HISTORY Task 1 - Ashland District | | | | | | Costs that were not allocated to a circuit include; internal labor & fleet costs, some unscheduled hotspot maintenance, trouble restoration work, tree ticket investigation, and tree contractors' field supervision. | | | | | | |
|---|--|---------------------------------|------------------|-------------|--------------------------|---|---------------|--------------|-------------------|---------------------|------------------------------|----------|
| Circuit Number | Circuit data in BOLD represent Full-Circuit Reclearing | | | | Reclearing Miles Planned | Reclearing Miles Complete | Tree Trim | Tree Removal | Brush Cut (acres) | Brush Spray (acres) | Tree Growth Regulator | COMMENTS |
| | Circuit Name | Cost (includes O&M and Capital) | Total Line Miles | | | | | | | | | |
| 3000303 | Bellefonte - Bellefonta | \$115,655.45 | 57.7 | 2.1 | 2.1 | 491 | 527 | 51.2 | 0.0 | | Finish Full Circuit Clearing | |
| 3001002 | Hiltchens - Willard | \$608,899.32 | 152.0 | 41.0 | 41.0 | 2,336 | 6,652 | 65.4 | 0.0 | | Finish Full Circuit Clearing | |
| 3001004 | Hiltchens - EK Road | \$516,428.56 | 31.4 | 29.4 | 29.4 | 2,455 | 4,082 | 221.4 | 0.0 | | Finish Full Circuit Clearing | |
| 3115701 | Belhaven - Diederich | \$15,480.98 | 19.5 | 0.2 | 0.2 | 49 | 37 | 0.3 | 0.0 | | Finish Full Circuit Clearing | |
| 3000201 | Big Sandy - Fallsburg South | \$33,814.56 | 96.6 | 0.0 | 0.0 | 0 | 0 | 0.0 | 79.5 | | Ground Spray | |
| 3000601 | Grahn - Distribution | \$34,449.54 | 41.9 | 0.0 | 0.0 | 0 | 0 | 0.0 | 53.4 | | Ground Spray | |
| 3000801 | Hayward - Halderman | \$125,739.92 | 118.7 | 0.0 | 0.0 | 0 | 0 | 0.0 | 199.7 | | Ground Spray | |
| 3000802 | Hayward - Lawton | \$41,084.78 | 36.8 | 0.0 | 0.0 | 0 | 0 | 0.0 | 84.2 | | Ground Spray | |
| 3000702 | Cannonsburg - Rt. 3 | \$22,747.10 | 98.5 | 0.0 | 0.0 | 0 | 0 | 0.0 | 38.4 | | Ground Spray | |
| 3103103 | Olive Hill - West Carter Elem | \$54,620.36 | 38.7 | 0.0 | 0.0 | 0 | 0 | 0.0 | 92.7 | | Ground Spray | |
| 3116101 | Grayson - Lansdowne | \$19,678.40 | 35.1 | 0.0 | 0.0 | 0 | 0 | 0.0 | 22.2 | | Ground Spray | |
| 3116102 | Grayson - Dixie Park | \$7,001.01 | 33.1 | 0.0 | 0.0 | 0 | 0 | 0.0 | 4.1 | | Ground Spray | |
| ASHLAND DISTRICT Totals | | \$1,595,800.96 | | 72.7 | 72.7 | 5,331 | 11,278 | 338.3 | 574.1 | 0.0 | | |

| 2018 KY POWER FORESTRY CIRCUIT HISTORY Task 1 - Hazard District | | | | | | Costs that were not allocated to a circuit include; internal labor & fleet costs, some unscheduled hotspot maintenance, trouble restoration work, tree ticket investigation, and tree contractors' field supervision. | | | | | | |
|--|--|---------------------------------|------------------|-------------|--------------------------|---|---------------|--------------|-------------------|---------------------|-------------------------------------|----------|
| Circuit Number | Circuit data in BOLD represent Full-Circuit Reclearing | | | | Reclearing Miles Planned | Reclearing Miles Complete | Tree Trim | Tree Removal | Brush Cut (acres) | Brush Spray (acres) | Tree Growth Regulator | COMMENTS |
| | Circuit Name | Cost (includes O&M and Capital) | Total Line Miles | | | | | | | | | |
| 3310501 | Haddix - Quicksand | \$696,938.41 | 116.0 | 57.2 | 57.2 | 2,151 | 11,777 | 88.7 | 9.1 | | Finish Full Circuit Clearing | |
| 3310503 | Haddix - Troublesome | \$0.00 | 97.0 | 3.5 | 3.5 | | | | | | Finish Full Circuit Clearing | |
| 3301101 | Chavies - Chavies | \$57,784.71 | 67.9 | 0.0 | 0.0 | 0 | 0 | 0.0 | 123.79 | | Ground Spray | |
| 3309302 | Vicco - Jeff | \$52,671.38 | 68.4 | 0.0 | 0.0 | 50 | 247 | 1.7 | 100.8 | | Widening and Ground Spray | |
| 3309902 | Slomp - Leatherwood | \$18,606.93 | 70.8 | 0.0 | 0.0 | 0 | 0 | 0.0 | 50.2 | | Ground Spray | |
| 3312901 | Jenkins - Kona | \$9,034.28 | 28.0 | 0.0 | 0.0 | 0 | 3 | 0.0 | 20.7 | | Capital Removals and Ground Spray | |
| 3401301 | Fleming - Neon | \$11,601.55 | 20.4 | 0.0 | 0.0 | 7 | 27 | 0.0 | 18.7 | | Ground Spray and Quality of Service | |
| 3401302 | Fleming - McRoberts | \$16,885.21 | 30.0 | 0.0 | 0.0 | 0 | 0 | 0.0 | 28.4 | | Ground Spray | |
| 3420001 | Softshell - Vest | \$12,325.48 | 54.4 | 0.0 | 0.0 | 0 | 0 | 0.0 | 57.1 | | Ground Spray | |
| HAZARD DISTRICT Totals | | \$873,845.95 | | 60.7 | 60.7 | 2,208 | 12,054 | 88.4 | 408.9 | 0.0 | | |

| 2018 KY POWER FORESTRY CIRCUIT HISTORY Task 1 - Pikeville District | | | | | | Costs that were not allocated to a circuit include; internal labor & fleet costs, some unscheduled hotspot maintenance, trouble restoration work, tree ticket investigation, and tree contractors' field supervision. | | | | | | |
|---|--|---------------------------------|------------------|--------------|--------------------------|---|---------------|--------------|-------------------|---------------------|-----------------------------------|----------|
| Circuit Number | Circuit data in BOLD represent Full-Circuit Reclearing | | | | Reclearing Miles Planned | Reclearing Miles Complete | Tree Trim | Tree Removal | Brush Cut (acres) | Brush Spray (acres) | Tree Growth Regulator | COMMENTS |
| | Circuit Name | Cost (includes O&M and Capital) | Total Line Miles | | | | | | | | | |
| 2150105 | Sprigg - Matewan | \$152,673.85 | 8.0 | 8.0 | 8.0 | 756 | 3410 | 15.8 | 13.3 | | Full Circuit Clearing | |
| 3150502 | Borderland - Chattaroy | \$95,628.85 | 10.2 | 5.5 | 5.5 | 241 | 981 | 9.8 | 0.0 | | Finish Full Circuit Clearing | |
| 3200301 | Belfry - Belfry | \$253,902.79 | 17.4 | 12.9 | 12.9 | 879 | 3777 | 15.8 | 8.5 | | Finish Full Circuit Clearing | |
| 3200302 | Belfry - Toler | \$97,175.82 | 29.0 | 2.1 | 2.1 | 108 | 269 | 1.5 | 103.0 | | Finish Full Circuit Clearing | |
| 3400303 | Betsy Layne - Harold | \$136,311.39 | 54.5 | 4.0 | 4.0 | 269 | 790 | 1.8 | 0.0 | | Finish Full Circuit Clearing | |
| 3402001 | Keyser - Thompson Road | \$166,738.26 | 16.6 | 15.9 | 15.9 | 507 | 1357 | 10.8 | 0.0 | | Full Circuit Clearing | |
| 3402002 | Keyser - Stonecoal | \$301,509.71 | 37.3 | 17.3 | 17.3 | 859 | 3857 | 35.0 | 0.0 | | Finish Full Circuit Clearing | |
| 3408402 | Kimper - Grapevine | \$385,164.65 | 35.8 | 15.8 | 15.8 | 521 | 5097 | 35.4 | 1.0 | | Finish Full Circuit Clearing | |
| 3421002 | Breaks - Grassy | \$8,075.42 | 4.0 | 0.8 | 0.8 | 3 | 96 | 1.1 | 0.0 | | Finish Full Circuit Clearing | |
| 3200201 | Barrenshe - Freeburn | \$43,057.33 | 12.1 | 0.0 | 0.0 | 0 | 0 | 0.0 | 60.3 | | Ground Spray | |
| 3201001 | Tom Watkins-Upper Pond Creek | \$78,286.83 | 28.8 | 0.0 | 0.0 | 0 | 64 | 7.2 | 97.9 | | Ground Spray | |
| 3401002 | Elwood - Virgle | \$24,864.11 | 80.5 | 0.0 | 0.0 | 0 | 0 | 0.0 | 29.3 | | Ground Spray | |
| 3401702 | Henry Clay - Regina | \$310,139.19 | 113.6 | 0.0 | 0.0 | 0 | 0 | 0.0 | 366.5 | | Ground Spray | |
| 3401801 | Index - Distribution | \$47,132.42 | 55.1 | 0.0 | 0.0 | 0 | 1 | 0.0 | 89.2 | | Ground Spray and Capital Removal | |
| 3404301 | Sidney - Big Creek | \$73,841.00 | 25.3 | 0.0 | 0.0 | 0 | 0 | 0.0 | 117.9 | | Ground Spray | |
| 3411401 | Dewey - Inez - A | \$189,386.66 | 171.2 | 0.0 | 0.0 | 0 | 0 | 0.0 | 320.3 | | Ground Spray | |
| 3417602 | New Camp - Arh - W Wmsn | \$41,722.08 | 21.5 | 0.0 | 0.0 | 1 | 17 | 0.0 | 51.3 | | Ground Spray and Capital Removals | |
| PIKEVILLE DISTRICT Totals | | \$2,405,610.36 | | 82.3 | 82.3 | 4,144 | 19,716 | 134.0 | 1,258.3 | 0.0 | | |
| KY POWER Task 1 Totals | | \$4,875,257.27 | | 215.7 | 215.7 | 11,683 | 43,048 | 560.6 | 2,241.4 | 0.0 | | |

Attachment 2 – Task 2 work completed in 2018 Ashland District

| 2018 KY POWER FORESTRY CIRCUIT HISTORY | | | | Costs that were not allocated to a circuit include; internal labor & fleet costs, some unscheduled hotspot maintenance, trouble restoration work, tree ticket investigation, and tree contractors' field supervision. | | | | | | | |
|--|-----------------------------|---------------------------------|------------------|---|---------------------------|---------------|---------------|-------------------|---------------------|-----------------------|------------------------------------|
| Ashland District - Task 2 | | | | | | | | | | | |
| Circuit Number | Circuit Name | Cost (Includes O&M and Capital) | Total Line Miles | Reclearing Miles Planned | Reclearing Miles Complete | Tree Trim | Tree Removal | Brush Cut (acres) | Brush Spray (acres) | Tree Growth Regulator | COMMENTS |
| 3000201 | Big Sandy - Fallsburg South | \$727,848.76 | 98.6 | 57.0 | 57.0 | 3,067 | 7,301 | 90.1 | 1.0 | | Finish Interim Reclear |
| 3000801 | Hayward - Haldeman | \$928,340.28 | 118.7 | 88.9 | 89.8 | 4,083 | 4,482 | 83.0 | 4.8 | | Begin Interim Reclear |
| 3001101 | Hoods Creek - Summitt | \$208,704.21 | 22.5 | 22.5 | 22.5 | 1,410 | 1,058 | 21.6 | 0.0 | | Interim Reclear |
| 3007906 | Busseyville - Walbridge | \$216,844.19 | 95.1 | 72.0 | 20.0 | 679 | 1,903 | 40.4 | 0.0 | | Begin Interim Reclear |
| 3008001 | 47th Street - 49th Street | \$389,224.94 | 25.4 | 25.4 | 25.4 | 1,625 | 575 | 15.1 | 0.0 | | Interim Reclear |
| 3008702 | Cannonsburg - Route 3 | \$1,105,334.32 | 98.5 | 83.3 | 83.3 | 4,823 | 10,965 | 135.8 | 64.5 | | Finish Interim Reclear |
| 3010601 | Russell - Kenwood | \$318,052.27 | 20.2 | 20.2 | 20.2 | 1,401 | 1,262 | 11.6 | 0.0 | | Interim Reclear |
| 3110901 | Wurland - Wurland | \$5,366.62 | 1.5 | 1.5 | 1.5 | 9 | 25 | 1.1 | 0.0 | | Interim Reclear |
| 3110902 | Wurland - Greenup | \$598,542.46 | 51.2 | 51.2 | 51.2 | 1,534 | 4,152 | 91.4 | 0.0 | | Interim Reclear |
| 3000202 | Big Sandy - Burnaugh North | \$9,345.28 | 84.9 | 0.0 | 0.0 | 0 | 0 | 2.8 | 0.0 | | Mowing |
| 3001202 | Howard Collins - 28th St. | \$1,407.55 | 13.4 | 0.0 | 0.0 | 0 | 1 | 0.0 | 0.0 | | Capital Work |
| 3001204 | Howard Collins - Summitt | \$790.47 | 25.7 | 0.0 | 0.0 | 0 | 3 | 0.0 | 0.0 | | Capital Work |
| 3001401 | Louisa - City | \$157.04 | 10.0 | 0.0 | 0.0 | 1 | 0 | 0.0 | 0.0 | | Quality of Service Work |
| 3002107 | 10th Street - West Central | \$296.78 | 15.6 | 0.0 | 0.0 | 1 | 0 | 0.0 | 0.0 | | Quality of Service Work |
| 3003701 | Coalton - US 60 W | \$31,952.02 | 87.5 | 0.0 | 0.0 | 0 | 0 | 14.7 | 0.0 | | Mowing |
| 3003703 | Coalton - Trace Creek | \$27,025.28 | 82.5 | 0.0 | 0.0 | 0 | 0 | 17.0 | 0.0 | | Mowing |
| 3008701 | Cannonsburg - Cannonsburg | \$37,889.21 | 62.6 | 0.0 | 0.0 | 16 | 39 | 17.4 | 0.0 | | Mowing and Quality of Service Work |
| 3103101 | Olive Hill - Globe | \$82,933.58 | 120.7 | 0.0 | 0.0 | 0 | 0 | 47.5 | 0.0 | | Mowing |
| 3118101 | Grayson - Lansdowne | \$4,188.15 | 35.1 | 0.0 | 0.0 | 0 | 2 | 3.2 | 0.0 | | Quality of Service Work |
| 3117601 | Princess - Meade Station | \$1,585.50 | 46.8 | 0.0 | 0.0 | 6 | 0 | 0.0 | 0.0 | | Quality of Service Work |
| ASHLAND DISTRICT Totals | | \$4,699,806.87 | | 420.0 | 370.9 | 18,635 | 31,748 | 592.3 | 79.3 | 0 | |

Attachment 2 – Task 2 work completed in 2018 Hazard District

| 2018 KY POWER FORESTRY CIRCUIT HISTORY | | | | | | Costs that were not allocated to a circuit include; Internal labor & fleet costs, some unscheduled hotspot maintenance, trouble restoration work, tree ticket investigation, and tree contractors' field supervision. | | | | | |
|--|----------------------------|---------------------------------|------------------|--------------------------|---------------------------|---|----------------|-------------------|---------------------|-----------------------|---|
| Hazard District - Task 2 | | | | | | | | | | | |
| Circuit Number | Circuit Name | Cost (Includes O&M and Capital) | Total Line Miles | Reclearing Miles Planned | Reclearing Miles Complete | Tree Trim | Tree Removal | Brush Cut (acres) | Brush Spray (acres) | Tree Growth Regulator | COMMENTS |
| 3301101 | Chavles - Chavles | \$40,778.02 | 67.9 | 0.6 | 0.6 | 64 | 383 | 0.7 | 43.0 | | Remote Location Capital and Outage Work |
| 3301701 | Dalry - Leatherwood | \$138,248.40 | 88.4 | 12.4 | 16.9 | 505 | 1,516 | 25.7 | 3.8 | | Begin Interim Reclear |
| 3302704 | Hazard - Kenmont | \$288,870.35 | 19.8 | 19.8 | 19.8 | 958 | 4,058 | 48.7 | 1.9 | | Interim Reclear |
| 3303901 | Leslie - Hyden | \$84,280.50 | 89.8 | 3.1 | 3.1 | 75 | 3,000 | 8.7 | 6.1 | | Remote Location Capital and Outage Work |
| 3303903 | Leslie - Hals Fork | \$548,439.39 | 78.6 | 78.6 | 46.0 | 1,543 | 12,140 | 148.2 | 3.9 | | Begin Interim Reclear |
| 3307301 | Bulan - Ary Hiner | \$773,014.21 | 52.7 | 52.7 | 52.0 | 1,340 | 7,392 | 141.9 | 1.1 | | Interim Reclear |
| 3307302 | Bulan - Ajax Dwarf | \$514,278.47 | 40.5 | 40.5 | 39.7 | 1,993 | 9,745 | 84.3 | 1.4 | | Interim Reclear |
| 3307303 | Bulan - Lotts Creek | \$39,717.61 | 2.2 | 2.2 | 2.2 | 13 | 562 | 13.7 | 0.0 | | Interim Reclear |
| 3308401 | Beckham - Hindman | \$414,604.68 | 102.8 | 25.4 | 25.4 | 997 | 5,433 | 75.4 | 60.9 | | Finish Interim Reclear |
| 3308402 | Beckham - Carr Creek | \$451,890.31 | 51.6 | 51.4 | 51.4 | 1,718 | 7,238 | 105.3 | 0.8 | | Finish Interim Reclear |
| 3308403 | Beckham - Pippa Passes | \$0.00 | 63.4 | 23.9 | 20.5 | 0 | 0 | 0.0 | 0.0 | | Begin Interim Reclear - Worked under Carr |
| 3308502 | Bonnyman - Hazard | \$823,555.97 | 65.5 | 20.0 | 22.6 | 1,511 | 1,405 | 1.3 | 2.1 | | Begin Interim Reclear |
| 3308503 | Bonnyman - Big Creek | \$793,138.91 | 87.4 | 74.8 | 61.0 | 2,520 | 14,722 | 128.9 | 66.3 | | Finish Interim Reclear |
| 3308602 | Collier - Lower Rockhouse | \$653,242.53 | 62.8 | 42.8 | 42.8 | 2,687 | 9,805 | 129.6 | 2.3 | | Finish Interim Reclear |
| 3309003 | Jeff - Viper | \$199,042.11 | 67.0 | 9.9 | 10.5 | 519 | 828 | 3.3 | 5.1 | | Begin Interim Reclear |
| 3309102 | Whitesburg - Hospital | \$258,063.87 | 7.8 | 7.8 | 7.8 | 187 | 1,638 | 0.0 | 0.0 | | Interim Reclear |
| 3311103 | Stinnett - Wendover | \$583,451.87 | 36.7 | 36.7 | 36.7 | 2,358 | 10,722 | 85.6 | 1.0 | | Interim Reclear |
| 3312902 | Jenkins - Jenkins | \$273,383.30 | 22.8 | 22.8 | 22.6 | 749 | 5,702 | 79.0 | 1.1 | | Interim Reclear |
| 3409503 | Burdine - Jenkins | \$349,274.19 | 8.2 | 7.2 | 7.2 | 889 | 591 | 0.0 | 0.5 | | Finish Interim Reclear |
| 3451202 | Beethide - Dunham | \$108,940.60 | 8.7 | 8.7 | 8.7 | 368 | 2,781 | 26.5 | 0.4 | | Interim Reclear |
| 3300602 | Bluegrass - Hazard | \$1,335.74 | 11.1 | 0.0 | 0.0 | 0 | 0 | 0.0 | 1.5 | | Vine Spray |
| 3301401 | Combs - Combs | \$20,850.74 | 9.4 | 0.0 | 0.0 | 0 | 0 | 0.0 | 85.2 | | Ground Spray |
| 3301402 | Combs - Airport Garden | \$50,494.58 | 42.3 | 0.0 | 0.0 | 0 | 0 | 0.0 | 122.7 | | Ground Spray |
| 3302701 | Hazard - Black Gold | \$5,348.68 | 30.6 | 0.0 | 0.0 | 10 | 60 | 1.0 | 2.1 | | Capital Work |
| 3302703 | Hazard - Hazard | \$955.82 | 11.0 | 0.0 | 0.0 | 0 | 0 | 0.0 | 1.0 | | Vine Spray |
| 3303902 | Leslie - Wooton | \$13,745.74 | 129.9 | 0.0 | 0.0 | 0 | 194 | 0.0 | 6.8 | | Capital Work and Vines |
| 3308002 | Jackson - Penbow | \$1,495.23 | 31.4 | 0.0 | 0.0 | 0 | 0 | 0.0 | 1.8 | | Vine Spray |
| 3308601 | Collier - Upper Rockhouse | \$955.35 | 37.3 | 0.0 | 0.0 | 0 | 0 | 0.0 | 0.5 | | Vine Spray |
| 3308603 | Collier - Smoot Creek | \$4,305.14 | 79.7 | 0.0 | 0.0 | 1 | 134 | 0.3 | 0.4 | | Capital and Quality of Service Work |
| 3309001 | Jeff - Boone Ledge | \$3,540.38 | 5.0 | 0.0 | 0.0 | 0 | 3 | 0.0 | 7.4 | | Ground Spray and Capital Work |
| 3309002 | Jeff - Jeff | \$4,594.85 | 5.7 | 0.0 | 0.0 | 2 | 15 | 0.0 | 1.3 | | Quality of Service Work |
| 3309101 | Whitesburg - Whitesburg | \$1,967.92 | 8.7 | 0.0 | 0.0 | 0 | 0 | 0.0 | 3.3 | | Ground Spray |
| 3309103 | Whitesburg - Cowan | \$5,730.63 | 43.8 | 0.0 | 0.0 | 9 | 44 | 0.3 | 0.6 | | Capital and Quality of Service Work |
| 3309104 | Whitesburg - Crafts Colley | \$8,957.04 | 27.9 | 0.0 | 0.0 | 0 | 60 | 0.0 | 1.5 | | Capital and Quality of Service Work |
| 3309301 | Vicco - Red Fox | \$8,337.25 | 47.9 | 0.0 | 0.0 | 3 | 78 | 0.2 | 1.8 | | Quality of Service Work |
| 3309302 | Vicco - Jeff | \$4,482.83 | 88.4 | 0.0 | 0.0 | 0 | 0 | 0.0 | 0.8 | | Vine Spray |
| 3309901 | Slamp - Defeated Cr. | \$936.84 | 13.5 | 0.0 | 0.0 | 0 | 0 | 0.0 | 0.2 | | Vine Spray |
| 3310502 | Haddx - Canoe | \$2,921.50 | 123.8 | 0.0 | 0.0 | 0 | 0 | 0.0 | 2.7 | | Vine Spray |
| 3311101 | Stinnett - Redbird | \$30,293.45 | 118.0 | 0.0 | 0.0 | 0 | 0 | 0.0 | 43.0 | | Ground Spray |
| 3311102 | Stinnett - Beech Fork | \$8,139.39 | 9.6 | 0.0 | 0.0 | 0 | 0 | 0.0 | 18.2 | | Ground Spray |
| 3311401 | Reedy - Deane | \$40,202.09 | 45.4 | 0.0 | 0.0 | 0 | 0 | 0.0 | 68.7 | | Ground Spray |
| 3311701 | Shamrock - Shamrock | \$5,601.02 | 28.7 | 0.0 | 0.0 | 86 | 19 | 0.0 | 2.0 | | Quality of Service Work |
| 3312202 | Engle - Grapevine 34.5 | \$1,681.47 | 100.2 | 0.0 | 0.0 | 1 | 3 | 0.0 | 0.3 | | Quality of Service Work |
| 3312901 | Jenkins - Kona | \$5,380.02 | 28.0 | 0.0 | 0.0 | 0 | 0 | 0.0 | 10.4 | | Ground Spray |
| 3314401 | Mayking - Ermine | \$681.35 | 28.1 | 0.0 | 0.0 | 0 | 0 | 0.0 | 0.6 | | Vine Spray |
| 3314402 | Mayking - Millstone | \$3,541.13 | 53.5 | 0.0 | 0.0 | 0 | 77 | 0.7 | 0.7 | | Capital and Quality of Service Work |
| 3420002 | Softshell - Lebum | \$2,455.08 | 49.6 | 0.0 | 0.0 | 0 | 3 | 0.0 | 0.5 | | Capital Work |
| HAZARD DISTRICT Totals | | \$7,272,054.81 | | 539.1 | 497.5 | 21,104 | 100,047 | 1,119.3 | 549.6 | 0 | |

Attachment 2 – Task 2 work completed in 2018 Pikeville District

| 2018 KY POWER FORESTRY CIRCUIT HISTORY | | | | Costs that were not allocated to a circuit include; internal labor & fleet costs, some unscheduled hotspot maintenance, trouble restoration work, tree ticket investigation, and tree contractors' field supervision. | | | | | | | |
|--|----------------------------------|---------------------------------|------------------|---|---------------------------|---------------|----------------|-------------------|---------------------|-----------------------|---|
| Pikeville District - Task 2 | | | | | | | | | | | |
| Circuit Number | Circuit Name | Cost (Includes O&M and Capital) | Total Line Miles | Reclearing Miles Planned | Reclearing Miles Complete | Tree Trim | Tree Removal | Brush Cut (acres) | Brush Spray (acres) | Tree Growth Regulator | COMMENTS |
| 2150103 | Sprigg - Sprigg | \$96,630.38 | 9.0 | 9.0 | 9.0 | 551 | 1,174 | 18.0 | 0.0 | | Interim Reclear |
| 2150501 | Borderland - Nolan | \$143,651.47 | 18.5 | 18.5 | 18.5 | 675 | 1,993 | 35.3 | 0.0 | | Interim Reclear |
| 2153502 | Middle Burning Creek - Naugatuck | \$2,033.97 | 1.0 | 1.0 | 1.0 | 2 | 28 | 0.8 | 0.0 | | Interim Reclear |
| 2970603 | Hurley - Race Fork | \$8,954.77 | 4.3 | 4.3 | 4.3 | 21 | 223 | 4.1 | 0.0 | | Interim Reclear |
| 3200301 | Belfry - Belfry | \$52,524.99 | 17.5 | 4.6 | 4.6 | 287 | 817 | 5.4 | 0.0 | | Finish Interim Reclear |
| 3202202 | Lovely - Wolf Creek | \$874,224.44 | 60.9 | 60.9 | 60.9 | 2,322 | 7,881 | 151.8 | 0.5 | | Interim Reclear |
| 3202203 | Lovely - Mt. Sterling | \$100,194.66 | 13.1 | 13.1 | 13.1 | 454 | 1,431 | 27.9 | 0.0 | | Interim Reclear |
| 3308402 | Beckham - Carr Creek | \$227,057.47 | 7.0 | 7.0 | 7.0 | 414 | 1,303 | 0.0 | 0.0 | | Interim Reclear |
| 3400301 | Betsy Layne - Mud Creek | \$467,497.78 | 77.5 | 57.0 | 44.8 | 1,405 | 6,219 | 109.9 | 3.4 | | Interim Reclear |
| 3400701 | Draffin - Belcher | \$217,603.81 | 21.4 | 21.4 | 21.4 | 401 | 2,127 | 51.8 | 0.0 | | Interim Reclear |
| 3400702 | Draffin - Yellow Hill | \$234,836.38 | 11.8 | 11.8 | 11.8 | 243 | 3,298 | 31.5 | 0.0 | | Interim Reclear |
| 3408101 | Sallsbury - Printer | \$228,030.42 | 19.6 | 19.6 | 19.6 | 973 | 2,283 | 41.2 | 0.0 | | Interim Reclear |
| 3408102 | Sallsbury - Black Diamond | \$0.00 | 1.5 | 1.5 | 1.5 | 0 | 0 | 0.0 | 0.0 | | Interim Reclear - Double Circuit with Printer |
| 3409103 | Sallsbury - Martin | \$289,575.43 | 46.7 | 46.7 | 46.7 | 1,090 | 4,258 | 98.4 | 0.0 | | Interim Reclear |
| 3409502 | Burdine - Levins | \$173,785.66 | 39.9 | 39.9 | 14.0 | 92 | 1,687 | 37.6 | 0.0 | | Interim Reclear |
| 3410502 | South Pikeville - Island Creek | \$274,923.89 | 38.5 | 38.5 | 13.0 | 233 | 2,067 | 48.8 | 0.0 | | Interim Reclear |
| 3410503 | South Pikeville - Hospital | \$68,876.78 | 5.7 | 5.7 | 5.7 | 90 | 377 | 10.4 | 0.0 | | Interim Reclear |
| 3411801 | Johns Creek - Meta | \$665,432.60 | 167.0 | 30.0 | 52.6 | 1,404 | 5,650 | 141.1 | 0.0 | | Begin Interim Reclear |
| 3411901 | Fords Branch - Shelby | \$549,354.63 | 40.5 | 40.5 | 40.4 | 1,210 | 5,033 | 81.1 | 0.0 | | Interim Reclear |
| 3411902 | Fords Branch - Robinson Creek | \$1,175,340.61 | 69.9 | 69.9 | 69.5 | 1,810 | 11,458 | 170.9 | 0.0 | | Interim Reclear |
| 3412901 | Weeksbury - Distribution | \$0.00 | 26.5 | 26.5 | 0.0 | 0 | 0 | 0.0 | 0.0 | | Interim Reclear - Deferred to 2019 |
| 3417601 | New Camp - Southside | \$85,736.57 | 10.1 | 10.1 | 10.1 | 64 | 786 | 32.6 | 0.0 | | Interim Reclear |
| 3421002 | Breaks - Grassy | \$32,301.68 | 4.0 | 0.0 | 3.2 | 10 | 385 | 4.5 | 0.0 | | Interim Reclear |
| 3200202 | Barenshe - Vulcan - A | \$150,358.35 | 45.2 | 0.0 | 0.0 | 13 | 162 | 3.1 | 231.0 | | Ground Spray and Capital Work |
| 3200204 | Barenshe - Pounding Mill | \$60,897.90 | 16.1 | 0.0 | 0.0 | 33 | 269 | 0.9 | 0.0 | | Capital Work |
| 3201001 | Tom Watkins-Upper Pond Creek | \$2,873.42 | 28.8 | 0.0 | 0.0 | 0 | 36 | 0.6 | 0.0 | | Quality of Service Work |
| 3401002 | Elwood - Virgie | \$157,835.20 | 80.5 | 0.0 | 0.0 | 0 | 0 | 0.0 | 161.2 | | Ground Spray |
| 3401101 | Falcon - Oil Springs | \$1,262.40 | 48.0 | 0.0 | 0.0 | 0 | 0 | 0.0 | 0.0 | | Quality of Service Work |
| 3401103 | Falcon - Burning Fork | \$14,566.33 | 72.2 | 0.0 | 0.0 | 29 | 81 | 1.5 | 0.0 | | Capital and Quality of Service Work |
| 3401702 | Henry Clay - Regina | \$23,668.86 | 113.6 | 0.0 | 0.0 | 2 | 47 | 0.0 | 0.0 | | Capital Work |
| 3402003 | Keyser - Mullins | \$1,797.06 | 29.2 | 0.0 | 0.0 | 0 | 13 | 0.0 | 0.0 | | Quality of Service Work |
| 3402202 | McKinney - Gibson | \$23,954.87 | 41.9 | 0.0 | 0.0 | 0 | 182 | 0.2 | 0.0 | | Capital Work |
| 3403003 | Pikeville - Cedar Creek | \$2,883.14 | 23.5 | 0.0 | 0.0 | 6 | 2 | 0.0 | 0.0 | | Capital and Quality of Service Work |
| 3403201 | Beaver Creek - Lipon | \$1,308.37 | 80.2 | 0.0 | 0.0 | 1 | 14 | 0.0 | 0.0 | | Quality of Service Work |
| 3403302 | Prestonsburg - University | \$2,331.10 | 16.9 | 0.0 | 0.0 | 0 | 6 | 0.0 | 0.0 | | Capital Work |
| 3403701 | Russell Fork - Little Beaver | \$1,799.28 | 12.2 | 0.0 | 0.0 | 2 | 4 | 0.0 | 0.0 | | Capital and Quality of Service Work |
| 3408303 | Coleman - Peter Creek | \$6,415.34 | 39.3 | 0.0 | 0.0 | 0 | 39 | 0.0 | 0.0 | | Capital Work |
| 3409002 | W. Paintsville - Staffordsville | \$936.00 | 46.8 | 0.0 | 0.0 | 0 | 3 | 0.0 | 0.0 | | Quality of Service Work |
| 3409302 | Kenwood - Auxler | \$3,482.02 | 41.1 | 0.0 | 0.0 | 1 | 6 | 0.0 | 0.0 | | Capital and Quality of Service Work |
| 3410602 | E. Prestonsburg - Lancer | \$2,411.04 | 24.6 | 0.0 | 0.0 | 4 | 0 | 0.0 | 0.0 | | Quality of Service Work |
| 3411802 | Johns Creek - Recoon | \$28,409.20 | 85.8 | 0.0 | 0.0 | 0 | 83 | 0.0 | 0.0 | | Capital Work |
| 3420101 | Mayo Trail-Nippa | \$5,184.44 | 22.5 | 0.0 | 0.0 | 8 | 14 | 0.0 | 0.0 | | Quality of Service Work |
| 3420103 | Mayo Trail - Davis Branch | \$984.00 | 32.6 | 0.0 | 0.0 | 0 | 2 | 0.0 | 0.0 | | Capital Work |
| | PIKEVILLE DISTRICT Totals | \$6,483,745.47 | | 537.5 | 472.5 | 13,850 | 61,441 | 1,107.3 | 398.2 | 0 | |
| KY POWER Task 2 Totals | | \$18,335,608.95 | | 1,496.6 | 1,340.9 | 53,589 | 193,236 | 2,818.9 | 1,016.0 | 0.0 | |

Attachment 3 – 2019 VM 5 year Cycle Plan

| 2019 Kentucky Power Distribution VM Plan Five Year Cycle Maintenance Clearing | | | | | | Costs that are not allocated to a circuit include: internal labor and fleet costs, unscheduled hotspot maintenance, tree ticket investigation, tree contractors' field supervision, ground and aerial spray, and aerial saw | | | | |
|--|--------------|---------------|----------------|--------------------|---------------|---|--------------------|------------------------------|--------------------|---|
| District | Station Name | Circuit Name | Circuit Number | Circuit Line Miles | Miles Planned | Projected O&M Cost per Mile | O&M Cost | Capital Assoc. with Clearing | Total Cost | Comments |
| ASH | Hayward | Haldeman | 3000801 | 118.7 | 28.9 | \$11,994 | \$346,627 | \$41,595 | \$388,222 | Finish Full Circuit Clearing, from 2018 |
| ASH | Louisa | City | 3001401 | 9.9 | 9.9 | \$11,994 | \$118,741 | \$14,249 | \$132,990 | Full Circuit Clearing |
| ASH | Louisa | Highbottom | 3001402 | 13.4 | 13.4 | \$11,994 | \$160,720 | \$19,286 | \$180,006 | Full Circuit Clearing |
| ASH | South Shore | Siloam | 3002001 | 38.5 | 38.5 | \$11,994 | \$461,789 | \$55,412 | \$517,181 | Full Circuit Clearing |
| ASH | South Shore | Distribution | 3002002 | 9.1 | 9.1 | \$11,994 | \$109,145 | \$13,097 | \$122,243 | Full Circuit Clearing |
| ASH | 10th Street | 6th Street | 3002101 | 0.6 | 0.6 | \$11,994 | \$7,196 | \$864 | \$8,060 | Full Circuit Clearing |
| ASH | 10th Street | 12th Street | 3002102 | 7.0 | 7.0 | \$11,994 | \$83,658 | \$10,075 | \$94,033 | Full Circuit Clearing |
| ASH | 10th Street | 3rd Street | 3002103 | 2.9 | 2.9 | \$11,994 | \$34,783 | \$4,174 | \$38,957 | Full Circuit Clearing |
| ASH | 10th Street | Midtown | 3002104 | 3.7 | 3.7 | \$11,994 | \$44,378 | \$5,325 | \$49,703 | Full Circuit Clearing |
| ASH | 10th Street | Front Street | 3002105 | 1.8 | 1.8 | \$11,994 | \$21,589 | \$2,591 | \$24,180 | Full Circuit Clearing |
| ASH | 10th Street | West Central | 3002701 | 15.7 | 15.7 | \$11,994 | \$188,306 | \$22,597 | \$210,902 | Full Circuit Clearing |
| ASH | Coalton | US 60 West | 3003701 | 87.1 | 87.1 | \$11,994 | \$1,044,677 | \$125,381 | \$1,170,039 | Full Circuit Clearing |
| ASH | Siloam | Distribution | 3004301 | 18.1 | 18.1 | \$11,994 | \$217,091 | \$26,051 | \$243,142 | Full Circuit Clearing |
| ASH | Busseyville | Torchlight | 3007904 | 98.1 | 17.0 | \$11,994 | \$203,898 | \$24,468 | \$228,366 | Begin Full Circuit Clearing |
| ASH | Busseyville | Walbridge | 3007906 | 95.1 | 75.1 | \$11,994 | \$900,749 | \$108,090 | \$1,008,839 | Finish Full Circuit Clearing, from 2018 |
| ASH | 47th Street | Cattlettsburg | 3009003 | 26.8 | 26.8 | \$11,994 | \$321,439 | \$38,573 | \$360,012 | Full Circuit Clearing |
| ASH | Cannonsburg | Cannonsburg | 3008701 | 62.6 | 62.6 | \$11,994 | \$750,824 | \$90,099 | \$840,923 | Full Circuit Clearing |
| ASH | Olive Hill | Globe | 3103101 | 120.7 | 50.0 | \$11,994 | \$599,700 | \$71,984 | \$671,684 | Begin Full Circuit Clearing |
| ASH | Princess | Meade | 3117601 | 46.0 | 29.2 | \$11,994 | \$350,225 | \$42,027 | \$392,252 | Begin Full Circuit Clearing |
| Ashland District Totals | | | | | 497.4 | \$11,994 | \$5,965,816 | \$715,898 | \$6,681,713 | |

| 2019 Kentucky Power Distribution VM Plan Five Year Cycle Maintenance Clearing | | | | | | Costs that are not allocated to a circuit include: internal labor and fleet costs, unscheduled hotspot maintenance, tree ticket investigation, tree contractors' field supervision, ground and aerial spray, and aerial saw | | | | |
|--|--------------|-----------------|----------------|--------------------|---------------|---|--------------------|------------------------------|--------------------|---|
| District | Station Name | Circuit Name | Circuit Number | Circuit Line Miles | Miles Planned | Projected O&M Cost per Mile | O&M Cost | Capital Assoc. with Clearing | Total Cost | Comments |
| HAZ | Daisy | Leatherwood | 3301701 | 88.4 | 71.5 | \$10,839 | \$774,989 | \$92,999 | \$867,987 | Finish Full Circuit Clearing, from 2018 |
| HAZ | Leslie | Wootton | 3303902 | 129.9 | 47.8 | \$10,839 | \$515,838 | \$61,912 | \$577,849 | Begin Full Circuit Clearing |
| HAZ | Leslie | Hale Fork | 3303903 | 76.6 | 30.6 | \$10,839 | \$331,673 | \$39,801 | \$371,474 | Finish Full Circuit Clearing, from 2018 |
| HAZ | Butan | Ary Hiner | 3307301 | 52.7 | 0.7 | \$10,839 | \$7,587 | \$910 | \$8,496 | Finish Full Circuit Clearing, from 2018 |
| HAZ | Butan | Ajax Dwarf | 3307302 | 40.5 | 0.8 | \$10,839 | \$8,671 | \$1,041 | \$9,712 | Finish Full Circuit Clearing, from 2018 |
| HAZ | Jackson | South Jackson | 3309001 | 26.6 | 26.6 | \$10,839 | \$288,317 | \$34,598 | \$322,915 | Full Circuit Clearing |
| HAZ | Jackson | Parlow | 3308002 | 31.4 | 31.4 | \$10,839 | \$340,345 | \$40,841 | \$381,186 | Full Circuit Clearing |
| HAZ | Beckham | Pippe Passes | 3306404 | 63.4 | 42.9 | \$10,839 | \$484,993 | \$55,799 | \$520,792 | Finish Full Circuit Clearing, from 2018 |
| HAZ | Bonnyman | Hazard | 3308502 | 65.5 | 42.9 | \$10,839 | \$484,993 | \$55,799 | \$520,792 | Finish Full Circuit Clearing, from 2018 |
| HAZ | Bonnyman | Big Creek | 3308503 | 87.4 | 13.8 | \$10,839 | \$149,578 | \$17,849 | \$167,528 | Finish Full Circuit Clearing, from 2018 |
| HAZ | Collier | Smoot Creek | 3308603 | 79.7 | 79.7 | \$10,839 | \$863,868 | \$103,664 | \$967,532 | Full Circuit Clearing |
| HAZ | Jeff | Jeff | 3309002 | 5.7 | 5.7 | \$10,839 | \$61,762 | \$7,414 | \$69,196 | Full Circuit Clearing |
| HAZ | Jeff | Viper | 3309003 | 67.0 | 56.5 | \$10,839 | \$612,404 | \$73,468 | \$685,892 | Finish Full Circuit Clearing, from 2018 |
| HAZ | Shamrock | Shamrock | 3311701 | 28.7 | 28.7 | \$10,839 | \$311,079 | \$37,330 | \$348,409 | Finish Full Circuit Clearing, from 2018 |
| HAZ | Engle | Industrial Park | 3312201 | 4.1 | 4.1 | \$10,839 | \$44,440 | \$5,333 | \$49,773 | Finish Full Circuit Clearing, from 2018 |
| HAZ | Engle | Grapewine | 3312202 | 100.2 | 53.0 | \$10,839 | \$574,467 | \$68,936 | \$643,403 | Finish Full Circuit Clearing, from 2018 |
| Hazard District Totals | | | | | 536.5 | \$10,839 | \$5,615,124 | \$697,615 | \$6,312,938 | |

| 2019 Kentucky Power Distribution VM Plan Five Year Cycle Maintenance Clearing | | | | | | Costs that are not allocated to a circuit include: internal labor and fleet costs, unscheduled hotspot maintenance, tree ticket investigation, tree contractors' field supervision, ground and aerial spray, and aerial saw | | | | |
|--|-----------------|----------------|----------------|--------------------|----------------|---|---------------------|------------------------------|---------------------|---|
| District | Station Name | Circuit Name | Circuit Number | Circuit Line Miles | Miles Planned | Projected O&M Cost per Mile | O&M Cost | Capital Assoc. with Clearing | Total Cost | Comments |
| PKV | Barneshe | Pounding Mill | 3200204 | 18.1 | 16.1 | \$10,849 | \$174,669 | \$20,960 | \$195,629 | Full Circuit Clearing |
| PKV | Betsy Layne | Mud Creek | 3400301 | 77.5 | 32.9 | \$10,849 | \$366,932 | \$42,832 | \$399,764 | Finish Full Circuit Clearing, from 2018 |
| PKV | Burton | Benlenville | 3400601 | 19.8 | 19.6 | \$10,849 | \$212,840 | \$25,517 | \$238,157 | Full Circuit Clearing |
| PKV | Burton | Wheelwright | 3400602 | 20.8 | 20.8 | \$10,849 | \$225,659 | \$27,079 | \$252,738 | Full Circuit Clearing |
| PKV | Falcon | Oil Springs | 3401101 | 48.0 | 48.0 | \$10,849 | \$520,752 | \$62,490 | \$583,242 | Full Circuit Clearing |
| PKV | McKinney | Gibson | 3402202 | 41.9 | 41.9 | \$10,849 | \$454,573 | \$54,549 | \$509,122 | Full Circuit Clearing |
| PKV | Pikeville | Main Street | 3403002 | 6.4 | 6.4 | \$10,849 | \$69,434 | \$8,332 | \$77,766 | Full Circuit Clearing |
| PKV | Beaver Creek | Ugon | 3403201 | 80.2 | 80.2 | \$10,849 | \$870,090 | \$104,411 | \$974,501 | Full Circuit Clearing |
| PKV | Beaver Creek | Price | 3403202 | 25.7 | 25.7 | \$10,849 | \$278,819 | \$33,456 | \$312,278 | Full Circuit Clearing |
| PKV | Prestonsburg | University | 3403302 | 16.9 | 16.9 | \$10,849 | \$183,348 | \$22,002 | \$205,350 | Full Circuit Clearing |
| PKV | Coleman | Peter Creek | 3406303 | 39.3 | 39.3 | \$10,849 | \$426,366 | \$51,164 | \$477,530 | Full Circuit Clearing |
| PKV | Coleman | Calloway | 3406304 | 38.5 | 18.6 | \$10,849 | \$201,791 | \$24,215 | \$226,006 | Begin Full Circuit Clearing |
| PKV | Burdine | Levisa | 3409502 | 39.9 | 25.9 | \$10,849 | \$280,969 | \$33,719 | \$314,708 | Finish Full Circuit Clearing, from 2018 |
| PKV | South Pikeville | Island Creek | 3410502 | 38.5 | 25.5 | \$10,849 | \$278,650 | \$33,198 | \$309,847 | Finish Full Circuit Clearing, from 2018 |
| PKV | Johns Creek | Meta | 3411801 | 167.0 | 114.4 | \$10,849 | \$1,241,128 | \$148,935 | \$1,390,061 | Finish Full Circuit Clearing, from 2018 |
| PKV | Fords Branch | Sheby | 3411901 | 40.5 | 0.1 | \$10,849 | \$1,085 | \$130 | \$1,215 | Finish Full Circuit Clearing, from 2018 |
| PKV | Fords Branch | Robinson Creek | 3411902 | 69.9 | 0.4 | \$10,849 | \$4,340 | \$521 | \$4,860 | Finish Full Circuit Clearing, from 2018 |
| PKV | Weeksbury | Distribution | 3412901 | 26.5 | 26.5 | \$10,849 | \$287,499 | \$34,500 | \$321,998 | Full Circuit Clearing |
| PKV | Breake | City | 3421001 | 30.3 | 30.3 | \$10,849 | \$328,725 | \$39,447 | \$368,172 | Full Circuit Clearing |
| Pikeville District Totals | | | | | 589.5 | \$10,849 | \$6,395,488 | \$767,458 | \$7,162,944 | |
| Kentucky Power Totals | | | | | 1,623.4 | \$11,197 | \$18,176,425 | \$2,181,171 | \$20,357,596 | |

Attachment 4 – 2019 Distribution Spray Plan

| Kentucky Power 2019 Distribution VM Spray Plan - Task 3 | | |
|--|--------------|-----------------------|
| District | Acres | O&M Budget |
| Ashland | 800 | \$500,000 |
| Hazard | 1,038 | \$610,000 |
| Pikeville | 1,500 | \$877,500 |
| KY Total | 3,338 | \$1,987,500 |

Attachment 5 – 2019 Recapitulation of planned O&M and Capital Expenditures by District

| Kentucky Power Company 2019 Distribution VM O&M Forestry Plan - Summary | | | | |
|--|----------------------|--------------------|--------------------|--------------------|
| Activity | Total O&M | Ashland | Hazard | Pikeville |
| 5 Year Cycle Maintenance | \$18,176,425 | \$5,965,816 | \$5,815,124 | \$6,395,486 |
| Spray - Ground and Aerial | \$1,987,500 | \$500,000 | \$610,000 | \$877,500 |
| Internal - KY Forestry Staff | \$756,986 | \$252,329 | \$252,329 | \$252,329 |
| Unscheduled/Reactive Maintenance | \$363,035 | \$75,700 | \$165,667 | \$121,668 |
| 2019 Total 5 Yr. Cycle O&M Budget | \$21,283,946 | \$6,793,844 | \$6,843,119 | \$7,646,982 |

| Kentucky Power Company 2019 Distribution VM Capital Forestry Plan - Summary | | | | |
|--|--------------------|------------------|--------------------|--------------------|
| Activity | Total CAP | Ashland | Hazard | Pikeville |
| Capital Assoc. w/ 5 Yr. Cycle Maintenance | \$2,181,171 | \$715,898 | \$697,815 | \$767,458 |
| Internal - KY Forestry Staff | \$185,400 | \$60,851 | \$59,314 | \$65,234 |
| Capital Reliability Pilot Program | \$6,500,000 | \$100,000 | \$5,000,000 | \$1,400,000 |
| Internal - KY Forestry Staff | \$240,500 | \$3,700 | \$185,000 | \$51,800 |
| 2019 Total Capital Budget | \$9,107,070 | \$880,449 | \$5,942,129 | \$2,284,492 |