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May 28, 2020

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VIA E-MAIL [PSCED@KY.GOV](mailto:PSCED@KY.GOV)

Kent A. Chandler  
Executive Director  
Public Service Commission of Kentucky  
211 Sower Boulevard  
P.O. Box 615  
Frankfort, KY 40602-0615


RE: 2019 Calendar Year "Electric Distribution Utility Annual Reliability Report"

Dear Mr. Chandler:

Kentucky Power Company is making this filing by e-mail transmission in accordance with the Commission's March 16, 2020 Order in Case No. 2020-00085. Accompanying this letter is the Company's 2019 calendar year "Electric Distribution Utility Annual Reliability Report."

Please do not hesitate to contact me if you have any questions.

Very truly yours,

  
Mark R. Overstreet

MRO

# Electric Distribution Utility Annual Reliability Report

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## SECTION 1: CONTACT INFORMATION

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

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## SECTION 2: REPORT YEAR

CALENDAR YEAR OF REPORT	2019
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## SECTION 3: MAJOR EVENT DAYS

TMED	25.7028
FIRST DATE USED TO DETERMINE TMED	1-Jan-14
LAST DATE USED TO DETERMINE TMED	31-Dec-18
NUMBER OF MED IN REPORT YEAR	1

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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.

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## SECTION 4: SYSTEM RELIABILITY INFORMATION AND RESULTS

### **System Wide Information**

Total Customers	<u>164,022</u>	Total Circuits	<u>228</u>
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### **Excluding MED**

	<b>5 Year Average</b>		<b>Reporting Year</b>
SAIDI	<u>457.78</u>	SAIDI	<u>485.05</u>
SAIFI	<u>2.326</u>	SAIFI	<u>2.485</u>

### **Including MED**

	<b>5 Year Average</b>		<b>Reporting Year</b>
SAIDI	<u>693.71</u>		<u>531.16</u>
SAIFI	<u>2.571</u>		<u>2.591</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

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# Electric Distribution Utility Annual Reliability Report

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## SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

**CIRCUIT #1:**

1. SUBSTATION NAME AND NUMBER
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

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# Electric Distribution Utility Annual Reliability Report

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Additional pages may be attached as necessary

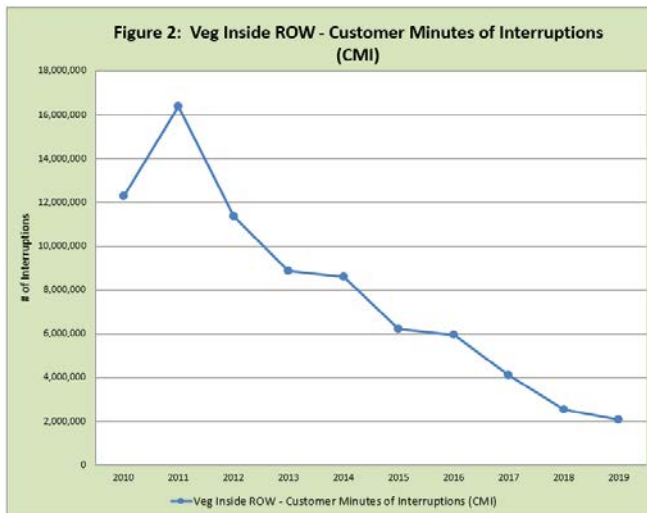
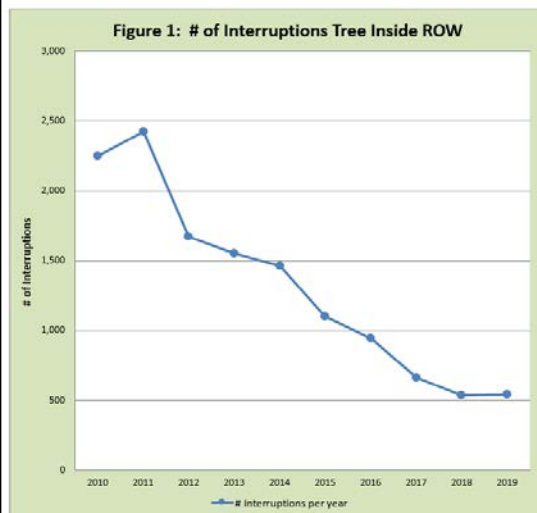
## SECTION 6: VEGETATION MANAGEMENT PLAN REVIEW

**See attached copy of Kentucky Power Company 2019 Vegetation Management Report 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.**

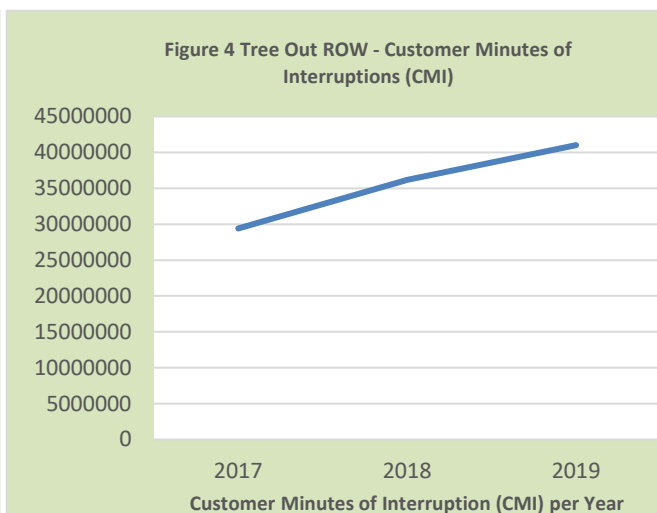
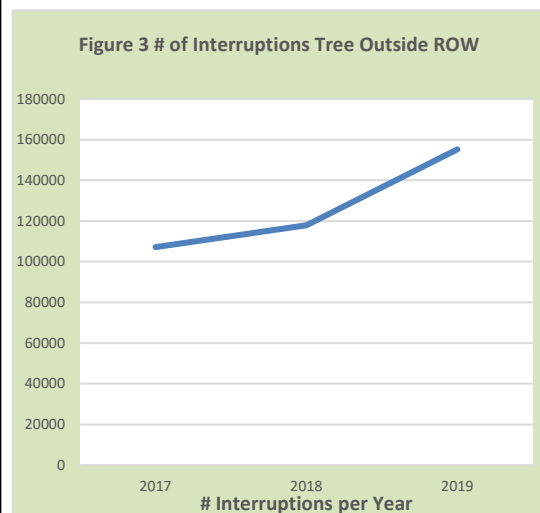
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## SECTION 7: UTILITY COMMENTS

Kentucky Power continues to see positive results from its vegetation management program. The Company is now on a five year circuit reclearing cycle. The success of this program can be seen in the following figures that show the reductions year-over-year of the annual number of interruptions and Customer Minutes of Interruption since 2010.



The major cause of reliability problems for Kentucky Power is trees outside of the Company's rights-of-way (Tree Out of ROW). This is due to several factors: a mature utility forest with natural large tree mortality, pathogens and invasive insects, and above average rainfall and associated storms. In 2019, Tree Out of ROW accounted for over 50% of the total Company SAIDI and nearly 40% of the total Company SAIFI. The Company started an enhanced Tree Out of ROW mitigation program in 2018 that was continued through 2019 and is ongoing in 2020. Below are figures showing the increase in Tree Out of ROW metrics from 2017.



The 5 Year Average and Reporting Year SAIDI and SAIFI excluding MED did not change significantly from the 2018 report values of 462.05 and 484.15 respectively. However, excluding the increase in those metrics for Tree Out of ROW shows that SAIDI and SAIFI for other causes did decrease.

**The 5 Year Average and Reporting Year SAIDI and SAIFI including MED did decrease from the 2018 report values of 739.39 and 624.26 respectively.**

**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 continued a multiyear project to increase the penetration of Distribution Automation and Circuit Reconfiguration (DACR) in its distribution grid.**

COMMONWEALTH OF KENTUCKY  
BEFORE THE PUBLIC SERVICE COMMISSION



**Pike County Kentucky**

Johns Creek Station – Raccoon  
Circuit

The Raccoon Circuit is 85  
miles in length and serves  
1,667 customers. This circuit  
was fully re-cleared in 2016.

Targeted widening such as  
pictured provides an added  
benefit to customer reliability  
by reducing impact from trees  
outside of rights-of-way.

(Photo taken November 2019)

2019 DISTRIBUTION VEGETATION MANAGEMENT

REPORT OF KENTUCKY POWER COMPANY

April 1, 2020

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 2019 Distribution Vegetation Management Program.

## **INTRODUCTION AND BACKGROUND**

Kentucky Power began its five-year cycle on January 1, 2019, in accordance with the Commission's Order in Case No. 2017-00179. Vegetation growth in the Company's rights-of-way as of January 1, 2020 is slightly less than five (4.89) years. The previous miles cleared over the last five years, from January 1, 2015 through December 31, 2019, exceeded the Company's total primary miles of distribution.

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 permitted Kentucky Power to begin a five-year cycle-based vegetation management program effective January 1, 2019. Kentucky Power is now performing cycle-based vegetation management maintenance work on its distribution rights-of-way. The principal characteristics of its current distribution rights-of-way vegetation management program are:

- Vegetation within Kentucky Power's distribution system rights-of-way will be re-cleared on a five-year cycle. The Company will on average re-clear approximately one fifth of the total miles of rights-of-way each year;
- Annual O&M expenditures for the five-year cycle will average approximately \$21.465 million;
- Kentucky Power will notify the Commission and obtain approval for any deviations from the filed work plan equal to or greater than 10% of the aggregate planned O&M expenditures; and
- The one-way balancing account established by the Commission's June 22, 2015 order in Case No. 2014-00396 remains in place. Expenditures are 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.

**2019 Distribution Vegetation Management Expenditures**  
**And Rights-of-Way Work Performed**

Total 2019 O&M expenditures for Kentucky Power's Distribution Vegetation Management program were \$21,312,894. Total 2019 Distribution Vegetation Management O&M expenditures exceeded the 2019 level of O&M expenditures (\$21,283,946) proposed by Kentucky Power in its 2019 Vegetation Management Plan by \$28,948 (0.14%).

Capital expenditures for 2019 totaled \$13,961,984. This includes capital investment made in connection with O&M expenditures and a reliability widening pilot program in the Hazard district to combat established threats (*i.e.*, Oak Wilt, Root Rot – multiple species, Emerald Ash Borer, White Pine Blister Rust, and Hemlock Woolly Adelgid) to Eastern Kentucky forests. The Company saw an average of 31.1% SAIDI reduction in Hazard district for trees outside the rights-of-way for those circuits targeted for widening as compared to those not targeted within the district.

**2019 Vegetation Management Mileage Cleared, Expenditures, and Cost/Unit**

Kentucky Power's 2019 Work Plan is broken down into four major actions in Table 1: Cycle maintenance (field personnel completing cycle maintenance), Internal personnel (provide planning and oversight), Spray (future control of regrowth brush and density population of trees within Rights-of-Way), and Reactive maintenance (field personnel completing maintenance to circuits outside plan due to vegetation issues). Table 1 provides a comparison of the 2019 work completed, actual expenditures, and Cost/Unit to the projections contained for each of its actions within its 2019 Vegetation Work Plan.

<b>Table 1: 2019 Vegetation Work Plan</b>						
<b>Action Description</b>	<b>Targeted</b>			<b>Actual</b>		
	<b>Miles/Acres</b>	<b>Expenses</b>	<b>Cost/Unit</b>	<b>Miles/Acres</b>	<b>Expenses</b>	<b>Cost/Unit</b>
<b>Cycle Maint (Miles)</b>	<b>1,623</b>	<b>\$18,176,206</b>	<b>\$11,199</b>	<b>1,543</b>	<b>\$17,390,711</b>	<b>\$11,271</b>
<b>Internal</b>	-	<b>\$795,000</b>	<b>\$490</b>	-	<b>\$515,734</b>	<b>\$334</b>
<b>Spray (Acres)</b>	<b>3,338</b>	<b>\$1,940,740</b>	<b>\$581</b>	<b>5,037</b>	<b>\$3,125,579</b>	<b>\$621</b>
<b>Reactive Maint</b>	-	<b>\$372,000</b>	<b>\$229</b>	-	<b>\$280,870</b>	<b>\$182</b>
<b>TOTALS</b>	-	<b>\$21,283,946</b>	<b>\$12,500</b>	-	<b>\$21,312,894</b>	<b>\$12,408</b>

Kentucky Power targeted 1,623 miles of annual cycle maintenance and completed 1,543 miles (95.1%) of the 2019 Vegetation Work Plan. Associated expenditures were \$17,390,711 (95.7%) or \$785,495 below the targeted expenditure of \$18,176,206. The Company's cost per unit for field cycle maintenance was approximately \$72 (0.64%) more per mile than targeted due to increases in contracts for forestry vegetation. The Company successfully managed double digit percentage increase in contracts costs (labor, equipment, and material) in 2019 through efficiencies gained, in part from previous spray and control of rights-of-way efficiencies.

The Company targeted 3,338 acres of spray in 2019 and completed 5,037 acres or 1,699 acres (50.9%) above the acres work plan. Approximately 1,270 acres of this variance is due to cut stubble applications and the remaining 429 acres of the variance is due in part to spraying of expanded rights-of-way and to address areas of rapid brush regrowth. Cut stubble applications were used to treat brush cleared by mowing and more immediate application behind maintenance clearing. This method of application is less seasonal than foliar applications which allows the Company to control brush more effectively and to better address the rapid regrowth of brush. Typical control of cut stubble is directed at the tall woody species with the goal of releasing lower growing vegetation that will occupy the site and hinder tree species establishment within the rights-of-way. Previous foliar spray applications could only be completed during May through October even though annual cycle maintenance continued year around. The initial shift to cut stubble along with catch up from previous maintenance clearing outside the window of applications for foliar spray caused an increase in acres sprayed.

Kentucky Power's 2019 expenditures for internal and reactive maintenance totaled (\$370,396) less than the targeted work plan. If spray for the 2019 vegetation plan had been limited to its targeted amount the Company would have achieved the targeted 1,623 miles. This is illustrated by the addition of \$785,495 shortfall in annual cycle maintenance and adding the \$370,396 of under expenditures in internal and reactive maintenance actions for a total of \$1,155,891. These additional dollars (\$1,155,891) divided by average cost per unit of \$11,271 would have allowed for 102.6 additional miles of cycle maintenance. Kentucky Power expects to complete the vegetation cycle on time by distributing the 2019 shortfall of 80 miles over the remaining four years of the first five year cycle.

O&M and Capital work associated with the 2019 Vegetation Management activities included removing 195,074 trees, trimming 50,276 trees, and clearing 4,223 acres of brush.

**2019 Distribution Vegetation Management Work by District**

Table 2 below details the Company's 2019 District O&M vegetation expenditures by circuit within each district. Certain O&M expenditures, including Internal Labor & Fleet, unscheduled hotspot maintenance, trouble restoration work, tree ticket investigation, auditor expenses, third party flagging expenditures, and tree contractor's field supervision cannot be allocated on a per-circuit basis.

<b>Table 2: 2019 District Level O&amp;M Expenditures by Circuit</b>				
<b>Nature of Expense</b>	<b>Ashland</b>	<b>Hazard</b>	<b>Pikeville</b>	<b>Total</b>
Annual Cycle Maintenance	\$5,706,409	\$5,531,057	\$8,048,978	\$19,286,444
Internal	\$171,199	\$160,433	\$184,102	\$515,734
<b>TOTAL</b>	<b>\$5,877,608</b>	<b>\$5,691,490</b>	<b>\$8,233,080</b>	<b>\$19,802,178</b>

Table 3 below provides the 2019 Five Year Cycle work performed within each District in miles cleared and acres sprayed.

<b>Table 3: 2019 District Level Cycle Work Performed</b>				
<b>Nature of Expense</b>	<b>Ashland</b>	<b>Hazard</b>	<b>Pikeville</b>	<b>Total</b>
Annual Cycle Miles Cleared	471.9	495.2	576.2	1,543.3
Acres Sprayed	1,587.7	1,435.6	2,013.6	5,036.9

Attachment 1 to this report details the 2019 annual cycle vegetation management work and expenditures by circuit. The attachment provides 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 below provides total system reliability indices for Kentucky Power's distribution system from 2010 (when the Vegetation Management Program began) through December 31, 2019.

<b>Table 4: Ten Year Reporting Indices for all Outage Cause Codes</b>			
<b>Year</b>	<b>SAIFI</b>	<b>CAIDI</b>	<b>SAIDI</b>
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	206.8	484.2
2019	2.485	195.2	485.0

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

<b>Table 5: Ten Year Reporting Indices for Tree Inside Rights-of-Way Outage Cause Codes</b>			
Year	Tree Inside Rights-of-Way SAIFI	Tree Inside Rights-of-Way CAIDI	Tree Inside Rights-of-Way SAIDI
2010	0.3714	190.8	70.9
2011	0.4192	227.4	95.3
2012	0.2562	258.8	66.3
2013	0.2815	184.3	51.9
2014	0.2154	236.3	50.9
2015	0.1782	207.6	37.0
2016	0.1719	207.2	35.6
2017	0.1137	216.7	24.6
2018	0.0751	204.9	15.4
Average (2010-2018)	0.2314	214.9	49.8
2019	0.0806	156.8	12.6

Excluded from the calculation of the indices in both tables are major events as defined by IEEE standard 1366.

Table 5 highlights the efficacy of the Company's Distribution Vegetation Management Program. The 2019 Tree Inside Rights-of-Way SAIFI and SAIDI were respectively 65.2% below, and 74.6% below the average Tree Inside Rights-of-Way SAIFI and SAIDI metrics for the period 2010-2018. The CAIDI values improved 27% from an average duration of 214.9 minutes in 2010 to 156.8 minutes in 2019. CAIDI measures the time for crews to respond, assess and identify the trouble, remove any debris that may have caused the outage, perform repairs, and restore service.

Since the Distribution Vegetation Management Program began in July 2010, the annual number of Tree Inside Rights-of-Way Interruptions (excluding major event days) declined by approximately 78.6%, from 2,547 to 544. The annual number of customer minutes of

interruption (CMI) associated with these events declined by approximately 83.1% from 12,280,664 to 2,072,958 over the same period (See Figure 1 and Figure 2).

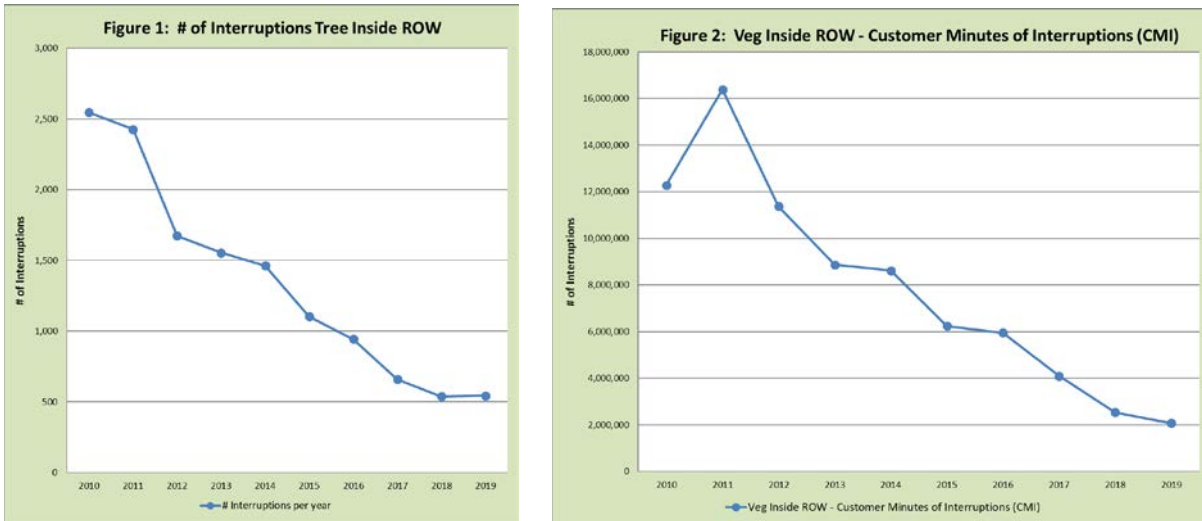


Figure 1 and Figure 2 for cause code Tree Inside Rights-of-Way is expected to continue to flatten in the future for the following reasons:

- The Company has completed end to end maintenance clearing for the entire primary distribution system and gained control of its rights-of-way;
- Refusals of customers to allow the Company to clear rights-of-way to the Company's vegetation specifications; and
- Outages on secondary distribution lines constitute a greater portion of the remaining total outages, limiting a reduction in the total number of outages beyond the current numbers. The Company's distribution vegetation management work has less effect on secondary distribution lines because secondary lines, including service to the house attachments, are positioned lower on the poles and are more likely to cross customer planted trees.

### **Vegetation Management Program-to-Date Expenditures**

Kentucky Power filed vegetation management plans indicating it would spend \$198,146,990 on Vegetation Management O&M from the beginning of the program on July 1, 2010 through December 31, 2019. In that period, the Company spent \$200,050,563, or \$1,903,573 (0.96%) more than planned.

Kentucky Power trimmed 707,000 trees, cleared 24,252 acres (37.89 square miles) of brush, sprayed 27,215 acres to control vegetation, and removed 2,419,871 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. 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 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 calculation of the December 31, 2019 balancing account of \$253,288 (expenditures in excess of the targeted amounts) is shown in Table 6 below:

<b>Table 6: Kentucky Power Balancing Account Vegetation Management Program Dollars</b>			
<b>Year</b>	<b>Required Expenditure</b>	<b>Actual Expenditure</b>	<b>Variance</b>
2015	\$13,830,530	\$13,620,717	<b>-\$209,813</b>
2016	\$27,661,060	\$27,774,546	<b>\$113,486</b>
2017	\$27,661,060	\$27,840,992	<b>\$179,932</b>
2018	\$21,638,766	\$21,779,501	<b>\$140,735</b>
2019	\$21,283,946	\$21,312,894	<b>\$28,948</b>
<b>Total</b>	<b>\$112,075,362</b>	<b>\$112,328,650</b>	<b>\$253,288</b>

### **Attachment Description**

The following attachments are incorporated in this report:

**Attachment 1** – provides a detailed summary of annual cycle maintenance work completed in 2019 at a circuit level within each district.

**Attachment 2** – provides the annual cycle maintenance plan for 2020 at circuit level by district.

**Attachment 3** – provides the annual Spray plan for 2020 at the district level.

**Attachment 4** – provides a recapitulation of planned 2020 O&M expenditures (including amounts that cannot be allocated on a circuit basis) by district and projected 2020 capital expenditures by district. The 2020 capital expenditures include, as was detailed in the Company's 2020 Vegetation Management Plan, a pilot capital investment program to widen the Company's existing rights-of-way to address outside of the rights-of-way causes of outages, including particularly, trees killed by the emerald ash borer and root rot.



### Attachment 1 – 2019 Annual Maintenance Cycle

2019 KY POWER FORESTRY CIRCUIT HISTORY Five Year Cycle Maintenance Clearing				Costs that were not allocated to a circuit number include: Internal labor & fleet costs, some unscheduled hotspot maintenance, trouble restoration work, tree ticket investigation, and tree contractors field supervision							
Ashland District											
Circuit Number	Circuit Name	Cost (Includes O&M and Capital)	Total Line Miles	Reclearing Miles Planned	Reclearing Miles Complete	Trees Trimmed	Trees Removed	Brush Cut (Acres)	Brush Sprayed (Acres)	Tree Growth Regulator	Comments
3000801	Hayward - Halderman	\$349,985.49	118.7	28.9	28.9	1,479	2,449	24.5	0.0	0.0	Finish Full Circuit Clearing, from 2018
3001401	Louisa - City	\$100,537.54	9.9	9.9	9.9	324	1,212	17.3	0.0	0.0	Full Circuit Clearing
3001402	Louisa - High Bottom	\$140,278.44	13.4	13.4	12.4	515	1,130	13.7	0.0	0.0	Full Circuit Clearing
3002001	South Shore - Siloam	\$363,397.87	38.5	38.5	38.5	1,285	2,197	35.7	28.9	0.0	Full Circuit Clearing
3002002	South Shore - Distribution	\$145,923.17	9.1	9.1	9.1	271	1,027	23.5	40.8	0.0	Full Circuit Clearing
3002101	10th Street - 6th St.	\$226.10	0.6	0.6	0.6	2	3	0.0	0.0	0.0	Full Circuit Clearing
3002103	10th Street - 12th St.	\$99,988.43	7.0	7.0	7.0	507	273	6.9	14.5	0.0	Full Circuit Clearing
3002104	10th Street - 10-3	\$32,721.13	2.9	2.9	2.9	157	98	0.6	0.0	0.0	Full Circuit Clearing
3002105	10th Street - Midtown	\$13,160.81	3.7	3.7	3.7	67	17	0.4	0.0	0.0	Full Circuit Clearing
3002106	10th Street - Front Street	\$7,810.16	1.8	1.8	1.8	33	63	1.1	0.0	0.0	Full Circuit Clearing
3002107	10th Street - West Central	\$215,159.65	15.7	15.7	15.7	891	990	12.7	27.2	0.0	Full Circuit Clearing
3003701	Coalton - US 60 W	\$996,481.54	87.1	87.1	87.1	3,402	5,160	114.6	207.6	0.0	Full Circuit Clearing
3004301	Siloam - Distribution	\$257,530.73	18.1	18.1	18.1	523	1,630	20.9	12.5	0.0	Full Circuit Clearing
3007904	Busseyville - Torchlight	\$82,402.74	98.1	17.0	0.0	0	19	26.7	2.8	0.0	Mowing and Planning, Clearing Deferred to 2020
3007906	Busseyville - Walbridge	\$1,030,169.63	95.1	75.1	75.1	3,664	10,781	146.3	236.1	0.0	Finish Full Circuit Clearing, from 2018
3008003	47th Street - Catlettsburg	\$204,336.08	26.8	26.8	26.8	1,212	692	33.6	33.1	0.0	Full Circuit Clearing
3008701	Cannonsburg - Cannonsburg	\$784,888.93	62.6	62.6	62.0	2,658	4,230	121.6	92.6	0.0	Full Circuit Clearing
3103101	Olive Hill - Globe	\$447,073.92	120.7	50.0	51.3	1,392	3,103	66.8	1.9	0.0	Begin Full Circuit Clearing
3117601	Princess - Meade	\$250,589.89	46.0	29.2	21.0	1,368	1,580	39.0	25.0	0.0	Begin Full Circuit Clearing
3000201	Big Sandy - Fallsburg South	\$9,214.88	96.0	0.0	0.0	0	0	1.0	0.0	0.0	Mowing
3000202	Big Sandy - Burnaugh North	\$22,362.88	85.1	0.0	0.0	0	0	16.2	0.0	0.0	Mowing
3000203	Big Sandy - Yatesville	\$110,348.92	62.7	0.0	0.0	0	4	57.6	0.0	0.0	Mowing and Capital Work
3000303	Bellefonte - Bellefonte	\$1,231.10	57.9	0.0	0.0	0	1	0.0	0.0	0.0	Capital Work
3000601	Grahn - Distribution	\$4,968.90	42.0	0.0	0.0	2	34	0.0	0.0	0.0	Quality of Service Work
3000701	Graysbranch - Graysbranch	\$16,314.06	69.0	0.0	0.0	0	0	9.8	0.0	0.0	Mowing
3000802	Hayward - Lawton	\$275.97	37.3	0.0	0.0	1	0	0.0	0.0	0.0	Quality of Service Work
3000901	Highland - Russell	\$539.25	24.6	0.0	0.0	0	1	0.0	0.0	0.0	Quality of Service Work
3001001	Hitchins - Damron Branch	\$59,995.59	46.4	0.0	0.0	0	58	0.3	90.7	0.0	Ground Spray and Capital Work
3001002	Hitchins - Willard	\$206,590.58	151.1	0.0	0.0	1	0	0.0	350.1	0.0	Ground Spray
3001004	Hitchins - EK Road	\$32,517.50	31.6	0.0	0.0	0	0	0.0	57.6	0.0	Ground Spray
3001101	Hoods creek - Summitt	\$18,655.82	22.5	0.0	0.0	1	1	0.0	36.9	0.0	Ground Spray and Capital Work
3001102	Hoods creek - Rural	\$3,271.88	47.2	0.0	0.0	0	0	0.0	7.7	0.0	Ground Spray
3001202	Howard Collins - 29th St.	\$3,693.07	13.2	0.0	0.0	4	5	0.0	0.0	0.0	Capital Work and Quality of Service Work
3001204	Howard Collins - Summitt	\$9,418.52	26.1	0.0	0.0	0	0	0.0	60.9	0.0	Ground Spray
3003702	Coalton - Cannonsburg	\$28,055.72	23.6	0.0	0.0	0	0	0.0	62.2	0.0	Ground Spray
3003703	Coalton - Trace Creek	\$79,696.55	83.8	0.0	0.0	0	0	0.0	167.0	0.0	Ground Spray
3007905	Busseyville - Mattie	\$36,145.28	91.2	0.0	0.0	0	0	10.6	1.8	0.0	Mowing
3008001	47th Street - 49th Street	\$8,651.63	25.4	0.0	0.0	2	0	0.0	19.2	0.0	Ground Spray and Quality of Service Work
3008002	47th Street - 39th Street	\$4,224.23	12.8	0.0	0.0	0	0	0.0	10.7	0.0	Ground Spray
3110902	Wurtland - Greenup	\$15,843.02	51.2	0.0	0.0	0	30	0.6	0.0	0.0	Capital Work
3110903	Wurtland - Rt. 503	\$13,559.73	46.3	0.0	0.0	0	0	6.7	0.0	0.0	Mowing
3116101	Grayson - Lansdowne	\$1,544.40	35.4	0.0	0.0	1	3	0.0	0.0	0.0	Capital Work
3116701	Belhaven - Diedrich	\$253.00	8.9	0.0	0.0	1	1	0.0	0.0	0.0	Quality of Service Work
<b>Ashland District Totals</b>		<b>\$6,210,034.73</b>		<b>497.4</b>	<b>471.9</b>	<b>19,763</b>	<b>36,792</b>	<b>808.5</b>	<b>1,587.7</b>	<b>0.0</b>	

2019 KY POWER FORESTRY CIRCUIT HISTORY Five Year Cycle Maintenance Clearing				Costs that were not allocated to a circuit number include: Internal labor & fleet costs, some unscheduled hotspot maintenance, trouble restoration work, tree ticket investigation, and tree contractors field supervision							
Hazard District											
Circuit Number	Circuit Name	Cost (Includes O&M and Capital)	Total Line Miles	Reclearing Miles Planned	Reclearing Miles Complete	Trees Trimmed	Trees Removed	Brush Cut (Acres)	Brush Sprayed (Acres)	Tree Growth Regulator	Comments
3301701	Daisy - Leatherwood	\$682,643.23	88.4	71.5	71.5	2,744	11,390	934.8	0.0	0.0	Finish Full Circuit Clearing, from 2018
3303902	Leslie - Wooton	\$187,904.01	129.9	47.6	20.0	636	2,343	33.8	21.7	0.0	Begin Full Circuit Clearing
3303903	Leslie - Hals Fork	\$425,472.24	76.6	30.6	30.6	1,407	8,670	123.6	0.0	0.0	Finish Full Circuit Clearing, from 2018
3307301	Bulan - Ary-Heiner	\$92,655.76	52.7	0.7	0.7	214	797	4.3	154.2	0.0	Finish Full Circuit Clearing, from 2018
3307302	Bulan - Ajax-Dwarf	\$68,938.44	40.5	0.8	0.8	107	390	2.9	121.8	0.0	Finish Full Circuit Clearing, from 2018
3308001	Jackson - South Jackson	\$453,131.12	26.6	26.6	24.6	842	5,840	71.5	30.9	0.0	Full Circuit Clearing
3308002	Jackson - Panbowl	\$483,859.01	31.4	31.4	31.2	963	6,597	70.2	34.0	0.0	Full Circuit Clearing
3308404	Beckham - Pippa Passes	\$318,546.23	63.4	42.9	42.9	443	2,176	28.4	44.5	0.0	Finish Full Circuit Clearing, from 2018
3308502	Bonnyman - Hazard	\$523,066.73	65.5	42.9	42.7	1,190	9,322	107.9	11.0	0.0	Finish Full Circuit Clearing, from 2018
3308503	Bonnyman - Big Creek	\$295,221.58	87.4	13.8	13.8	933	4,638	43.2	146.3	0.0	Finish Full Circuit Clearing, from 2018
3308603	Collier - Smoot Creek	\$834,888.07	79.7	79.7	79.7	2,640	10,715	177.3	112.6	0.0	Full Circuit Clearing
3309002	Jeff - Jeff	\$69,909.00	5.7	5.7	5.7	63	1,367	8.9	16.6	0.0	Full Circuit Clearing
3309003	Jeff - Viper	\$638,118.72	67.0	56.5	56.5	2,391	9,448	118.1	0.0	0.0	Finish Full Circuit Clearing, from 2018
3311701	Shamrock - Shamrock	\$402,240.76	28.7	28.7	28.5	986	9,743	124.6	6.6	0.0	Full Circuit Clearing
3312201	Engle - Industrial Park	\$14,728.85	4.1	4.1	4.1	14	360	9.1	21.4	0.0	Full Circuit Clearing
3312202	Engle - Grapevine	\$486,323.64	100.2	53.0	41.9	1,350	8,899	118.9	4.2	0.0	Begin Full Circuit Clearing
3300601	Bluegrass - Walkertown	\$2,477.60	28.7	0.0	0.0	0	4	0.0	2.0	0.0	Capital Work and Ground Spray
3302703	Hazard - Hazard	\$2,601.18	11.0	0.0	0.0	0	0	0.0	1.3	0.0	Capital Work and Ground Spray
3302704	Hazard - Kenmont	\$14,550.11	19.9	0.0	0.0	23	6	0.0	34.5	0.0	Capital Work and Ground Spray
3303901	Leslie - Hyden	\$18,564.24	89.4	0.0	0.0	0	0	0.0	33.6	0.0	Ground Spray
3307303	Bulan - Lotts Creek	\$4,211.88	2.2	0.0	0.0	0	0	0.0	9.5	0.0	Ground Spray
3308401	Beckham - Hindman	\$45,021.48	97.3	0.0	0.0	0	0	0.0	116.7	0.0	Ground Spray
3308402	Beckham - Carr Creek	\$66,337.99	51.3	0.0	0.0	8	347	1.5	146.8	0.0	Capital Work and Ground Spray
3308601	Collier - Upper Rockhouse	\$1,379.34	37.3	0.0	0.0	0	0	0.0	29.4	0.0	Ground Spray
3308602	Collier - Lower Rockhouse	\$16,578.83	62.9	0.0	0.0	3	19	0.0	14.8	0.0	Ground Spray and Quality of Service Work
3309001	Jeff - Boone Ledge	\$8,108.64	5.0	0.0	0.0	8	24	0.0	0.0	0.0	Capital Work
3309101	Whitesburg - Whitesburg	\$1,959.10	8.8	0.0	0.0	0	0	0.0	5.5	0.0	Ground Spray
3309102	Whitesburg - Hospital	\$5,527.58	7.1	0.0	0.0	0	0	0.0	15.0	0.0	Ground Spray
3309103	Whitesburg - Cowan	\$2,325.98	43.9	0.0	0.0	0	28	0.0	0.0	0.0	Quality of Service Work
3309104	Whitesburg - Crafts Colley	\$1,035.90	27.9	0.0	0.0	0	0	0.0	1.1	0.0	Quality of Service Work
3309301	Vicco - Red Fox	\$1,202.10	47.8	0.0	0.0	0	8	0.0	0.0	0.0	Quality of Service Work
3309302	Vicco - Jeff	\$4,546.42	88.9	0.0	0.0	1	80	0.0	0.0	0.0	Capital Work and Quality of Service Work
3310501	Haddix - Quicksand	\$32,005.97	111.3	0.0	0.0	0	0	0.0	167.2	0.0	Ground Spray
3310502	Haddix - Canoe	\$18,681.28	124.1	0.0	0.0	0	0	0.0	1.3	0.0	Ground Spray and Work Planning
3310503	Haddix - Troublesome Creek	\$10,157.84	91.7	0.0	0.0	0	0	0.0	66.6	0.0	Ground Spray
3311101	Stinnett - Redbird	\$1,821.90	117.7	0.0	0.0	0	25	0.0	0.0	0.0	Capital Work
3311103	Stinnett - Wendover	\$3,465.81	36.8	0.0	0.0	0	1	0.0	5.5	0.0	Ground Spray and Capital Work
3311401	Reedy - Deane	\$1,968.24	43.7	0.0	0.0	0	0	0.0	2.2	0.0	Quality of Service Work
3312901	Jenkins - Kona	\$3,891.40	26.0	0.0	0.0	0	0	0.0	11.7	0.0	Ground Spray
3312902	Jenkins - Jenkins	\$11,147.30	22.2	0.0	0.0	3	5	1.5	32.1	0.0	Ground Spray and Quality of Service Work
3314401	Mayking - Ermine	\$5,364.60	28.1	0.0	0.0	40	8	0.1	0.0	0.0	Quality of Service Work
3401301	Fleming - Neon	\$2,302.24	20.4	0.0	0.0	0	0	0.0	1.6	0.0	Ground Spray, Quality of Service
3451202	Beehive - Dunham	\$4,949.50	8.7	0.0	0.0	0	0	0.0	11.6	0.0	Ground Spray
<b>Hazard District Totals</b>		<b>\$6,269,831.84</b>		<b>536.5</b>	<b>495.2</b>	<b>17,009</b>	<b>93,250</b>	<b>1,980.3</b>	<b>1,435.6</b>	<b>0.0</b>	

2019 KY POWER FORESTRY CIRCUIT HISTORY Five Year Cycle Maintenance Clearing				Costs that were not allocated to a circuit number include: Internal labor & fleet costs, some unscheduled hotspot maintenance, trouble restoration work, tree ticket investigation, and tree contractors field supervision							
Pikeville District											
Circuit Number	Circuit Name	Cost (Includes O&M and Capital)	Total Line Miles	Reclearing Miles Planned	Reclearing Miles Complete	Trees Trimmed	Trees Removed	Brush Cut (Acres)	Brush Sprayed (Acres)	Tree Growth Regulator	Comments
3120101	Stanville - Mud Creek	\$655,658.54	77.5	32.9	32.9	1,814	6,496	94.2	0.0	0.0	Finish Full Circuit Clearing, from 2018
3200204	Barrenshe - Pounding Mill	\$180,731.45	16.1	16.1	16.1	461	2,274	31.0	0.0	0.0	Full Circuit Clearing
3400601	Burton - Bevinsville	\$355,833.32	19.6	19.6	19.6	483	3,309	66.7	0.0	0.0	Full Circuit Clearing
3400602	Burton - Wheelwright	\$504,356.71	20.8	20.8	20.8	611	2,974	49.3	0.0	0.0	Full Circuit Clearing
3401101	Falcon - Oil Springs	\$350,851.55	48.0	48.0	48.0	748	3,610	109.8	0.0	0.0	Full Circuit Clearing
3402202	McKinney - Gibson	\$552,709.26	41.9	41.9	41.9	1,117	5,467	80.6	0.0	0.0	Full Circuit Clearing
3403002	Pikeville - Main Street	\$138,088.84	6.4	6.4	6.4	385	436	6.0	0.0	0.0	Full Circuit Clearing
3403201	Beaver Creek - Ligon	\$811,465.11	80.2	62.3	49.0	982	7,916	159.1	0.0	0.0	Full Circuit Clearing
3403202	Beaver Creek - Price	\$488,150.56	25.7	25.7	25.7	427	3,259	67.6	0.0	0.0	Full Circuit Clearing
3403302	Prestonsburg - University	\$325,167.03	16.9	16.9	16.9	531	2,374	24.3	0.2	0.0	Full Circuit Clearing
3408303	Coleman - Peter Creek	\$431,221.40	39.3	39.3	39.3	816	3,640	54.7	3.7	0.0	Full Circuit Clearing
3408304	Coleman - Calloway	\$351,012.00	36.5	36.5	36.5	636	2,456	100.7	0.0	0.0	Full Circuit Clearing
3409502	Burdine - Levisa	\$418,750.77	39.9	25.9	25.9	702	3,383	82.9	0.0	0.0	Finish Full Circuit Clearing, from 2018
3410502	So. Pikeville - Island Creek	\$320,433.53	38.5	25.5	25.5	494	2,167	57.5	6.4	0.0	Finish Full Circuit Clearing, from 2018
3411801	Johns Creek - Meta	\$902,111.89	167.0	114.4	114.4	1,649	9,725	277.6	0.0	0.0	Finish Full Circuit Clearing, from 2018
3411901	Fords Branch - Shelby	\$102,961.64	40.5	0.1	0.1	0	0	0.0	108.1	0.0	Finish Full Circuit Clearing, from 2018
3411902	Fords Branch - Robinson Ck	\$157,728.78	69.9	0.4	0.4	0	35	0.0	194.1	0.0	Finish Full Circuit Clearing, from 2018
3412901	Weeksbury - Distribution	\$518,193.30	26.5	26.5	26.5	744	1,840	73.1	0.0	0.0	Full Circuit Clearing
3421001	Breaks - City	\$375,794.17	30.3	30.3	30.3	669	2,699	75.3	0.0	0.0	Full Circuit Clearing
2150103	Sprigg-Sprigg	\$25,884.08	9.0	0.0	0.0	0	14	0.6	39.1	0.0	Ground Spray and Quality of Service Work
2150105	Sprigg - Matewan	\$11,539.32	2.7	0.0	0.0	0	0	0.0	17.0	0.0	Ground Spray
3120102	Stanville - Tram	\$16,335.42	33.4	0.0	0.0	25	86	1.0	0.0	0.0	Quality of Service Work
3120103	Stanville - Harold	\$122,096.56	55.5	0.0	0.0	0	45	1.0	173.7	0.0	Ground Spray
3150501	Borderland - Nolan	\$65,043.75	18.5	0.0	0.0	0	0	0.0	99.6	0.0	Ground Spray
3150502	Borderland - Chattaroy	\$44,039.88	10.1	0.0	0.0	0	0	0.0	69.5	0.0	Ground Spray
3200201	Barrenshe - Freeburn	\$5,729.50	12.2	0.0	0.0	6	59	0.4	0.0	0.0	Quality of Service Work
3200301	Belfry - Belfry	\$9,594.26	13.3	0.0	0.0	0	0	0.0	13.9	0.0	Ground Spray
3200302	Belfry - Toler	\$14,979.30	40.5	0.0	0.0	71	50	0.0	7.1	0.0	Ground Spray and Quality of Service Work
3202201	Lovely - Lovely	\$7,157.10	41.2	0.0	0.0	0	4	0.0	8.8	0.0	Ground Spray and Capital Work
3202203	Lovely - Mt. Sterling	\$55,599.10	13.1	0.0	0.0	0	0	0.0	79.9	0.0	Ground Spray
3400702	Draffin - Yellow Hill	\$9,978.33	11.8	0.0	0.0	12	83	0.8	0.0	0.0	Capital Work
3401001	Elwood - Dorton	\$112,723.48	43.4	0.0	0.0	0	0	0.0	132.1	0.0	Ground Spray
3401002	Elwood - Virgie	\$17,141.14	80.4	0.0	0.0	0	9	0.0	28.1	0.0	Ground Spray
3401102	Falcon - Salyersville	\$35,446.25	45.0	0.0	0.0	0	31	1.1	44.0	0.0	Ground Spray
3401103	Falcon - Burning Fork	\$1,623.20	72.6	0.0	0.0	0	0	0.0	0.0	0.0	Work Planning
3401702	Henry Clay - Regina	\$13,301.78	113.1	0.0	0.0	0	3	0.0	24.0	0.0	Ground Spray and Capital Work
3401801	Index - Distribution	\$2,297.14	55.1	0.0	0.0	0	1	0.0	0.0	0.0	Capital Work
3402001	Keyser - Thompson Road	\$1,163.20	10.6	0.0	0.0	0	2	0.0	0.0	0.0	Capital Work
3402002	Keyser - Stonecoal	\$4,405.38	36.5	0.0	0.0	9	7	0.1	0.0	0.0	Capital Work and Quality of Service Work
3403001	Pikeville - City	\$5,706.00	20.4	0.0	0.0	0	1	0.0	0.0	0.0	Capital Work
3403801	Second Fork - Distribution	\$49,128.71	7.4	0.0	0.0	0	0	0.0	55.0	0.0	Ground Spray
3408101	Salisbury - Printer	\$46,660.96	19.6	0.0	0.0	0	0	0.0	60.6	0.0	Ground Spray
3408103	Salisbury - Martin	\$128,019.74	45.7	0.0	0.0	0	14	0.7	177.0	0.0	Ground Spray
3409001	W. Paintsville - Paintsville	\$6,308.74	3.4	0.0	0.0	0	0	2.9	6.7	0.0	Ground Spray
3409002	W. Paintsville - Staffordsville	\$126,954.42	47.0	0.0	0.0	0	0	0.0	177.2	0.0	Ground Spray
3409003	West Paintsville - Plaza	\$47,004.16	23.2	0.0	0.0	0	0	1.6	63.1	0.0	Ground Spray
3409301	Kenwood - W Van Lear	\$43,968.78	18.9	0.0	0.0	0	23	1.2	54.2	0.0	Ground Spray
3409302	Kenwood - Auxier	\$53,021.55	41.2	0.0	0.0	110	225	1.2	24.8	0.0	Ground Spray and Quality of Service Work
3409303	Kenwood - Hagerhill	\$152,870.55	49.3	0.0	0.0	0	104	10.0	122.6	0.0	Ground Spray and Capital Work
3409402	Feds Creek - Lick Creek	\$4,680.17	17.5	0.0	0.0	0	41	0.0	0.0	0.0	Capital Work
3410602	E. Prestonsburg - Lancer	\$975.70	24.6	0.0	0.0	0	2	0.0	0.0	0.0	Quality of Service Work
3411802	Johns Creek - Raccoon	\$6,624.06	85.0	0.0	0.0	0	16	0.0	0.0	0.0	Capital Work
3414901	Fishtrap - Distribution	\$29,730.98	4.5	0.0	0.0	0	0	0.0	30.0	0.0	Ground Spray
3420101	Mayo Trail-Nippa	\$45,417.59	22.5	0.0	0.0	2	13	0.0	54.3	0.0	Ground Spray and Capital Work
3420102	Mayo Trail-Euclid	\$33,853.07	19.5	0.0	0.0	0	0	0.0	44.7	0.0	Ground Spray
3420103	Mayo Trail - Davis Branch	\$91,884.47	32.1	0.0	0.0	0	139	1.9	67.0	0.0	Ground Spray
3421002	Breaks - Grassy	\$23,575.94	4.2	0.0	0.0	0	0	0.0	18.3	0.0	Ground Spray
970603	Hurley - Race Fork	\$5,792.26	4.9	0.0	0.0	0	0	0.0	8.8	0.0	Ground Spray
<b>Pikeville District Totals</b>		<b>\$9,419,475.87</b>		<b>589.5</b>	<b>576.2</b>	<b>13,504</b>	<b>65,032</b>	<b>1,434.5</b>	<b>2,013.6</b>	<b>0.0</b>	
<b>Kentucky Power 2019 Totals</b>		<b>\$21,899,342.44</b>		<b>1,623.4</b>	<b>1,543.3</b>	<b>50,276</b>	<b>195,074</b>	<b>4,223.3</b>	<b>5,036.9</b>	<b>0.0</b>	

**Attachment 2 – 2020 Annual Maintenance Cycle Plan**

2020 Kentucky Power Distribution Five Year Cycle VM Plan					Costs that are not allocated to a circuit include: internal labor & fleet costs, unscheduled hotspot maintenance, ground & 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	Ashland	25th St	3000101	1.3	1.3	\$11,983	\$15,578	\$1,429	\$17,008	Full Circuit Reclear
ASH	Ashland	29th St	3000102	6.8	6.8	\$11,983	\$81,486	\$7,476	\$88,963	Full Circuit Reclear
ASH	Ashland	14th St	3000103	1.4	1.4	\$11,983	\$16,777	\$1,539	\$18,316	Full Circuit Reclear
ASH	Ashland	3rd St	3000104	0.2	0.2	\$11,983	\$2,397	\$220	\$2,617	Full Circuit Reclear
ASH	Ashland	1st St	3000105	1.7	1.7	\$11,983	\$20,372	\$1,869	\$22,241	Full Circuit Reclear
ASH	Big Sandy	Burnaugh North	3000202	85.1	56.7	\$11,983	\$679,453	\$62,340	\$741,793	Begin Full Circuit Reclear
ASH	Bellefonte	Flatwoods	3000302	3.1	3.1	\$11,983	\$37,148	\$3,408	\$40,557	Full Circuit Reclear
ASH	Bellefonte	Town Center	3000304	2.7	2.7	\$11,983	\$32,235	\$2,958	\$35,193	Full Circuit Reclear
ASH	Highland	Russell	3000901	24.6	24.6	\$11,983	\$294,789	\$27,047	\$321,836	Full Circuit Reclear
ASH	Highland	Flatwoods	3000902	20.0	20.0	\$11,983	\$239,666	\$21,989	\$261,655	Full Circuit Reclear
ASH	Highland	Wurtland	3000903	15.3	15.3	\$11,983	\$183,344	\$16,822	\$200,166	Full Circuit Reclear
ASH	Howard Collins	13th St	3001201	13.0	13.0	\$11,983	\$155,783	\$14,293	\$170,076	Full Circuit Reclear
ASH	Howard Collins	Floyd	3001203	11.1	11.1	\$11,983	\$132,775	\$12,182	\$144,957	Full Circuit Reclear
ASH	Louisa	Highbottom	3001402	13.4	1.0	\$11,983	\$11,983	\$1,099	\$13,083	Finish Full Circuit Reclear, from 2019
ASH	Coalton	US 60 West	3003701	87.1	0.1	\$11,983	\$1,198	\$110	\$1,308	Finish Full Circuit Reclear, from 2019
ASH	Siloam	Distribution	3004301	18.1	0.1	\$11,983	\$1,198	\$110	\$1,308	Finish Full Circuit Reclear, from 2019
ASH	Busseyville	Torchlight	3007904	97.4	97.4	\$11,983	\$1,167,173	\$107,088	\$1,274,261	Full Circuit Reclear
ASH	Cannonsburg	Cannonsburg	3008701	62.6	0.6	\$11,983	\$7,190	\$660	\$7,850	Finish Full Circuit Reclear, from 2019
ASH	Russell	Bear Run	3010602	12.0	12.0	\$11,983	\$143,800	\$13,194	\$156,993	Full Circuit Reclear
ASH	Russell	Ashland Oil	3010603	0.8	0.8	\$11,983	\$9,587	\$880	\$10,466	Full Circuit Reclear
ASH	Olive Hill	Globe	3103101	121.1	69.8	\$11,983	\$836,434	\$76,743	\$913,177	Finish Full Circuit Reclear, from 2019
ASH	Grayson	Lansdowne	3116101	35.4	35.4	\$11,983	\$424,209	\$38,921	\$463,130	Full Circuit Reclear
ASH	Grayson	Dixie Park	3116102	33.1	33.1	\$11,983	\$396,647	\$36,392	\$433,039	Full Circuit Reclear
ASH	Belhaven	Diedrich	3116701	8.9	8.9	\$11,983	\$106,651	\$9,785	\$116,437	Full Circuit Reclear
ASH	Belhaven	Indian Run	3116702	19.1	19.1	\$11,983	\$228,881	\$21,000	\$249,881	Full Circuit Reclear
ASH	Belhaven	Argillite	3116703	27.7	12.5	\$11,983	\$150,151	\$13,776	\$163,927	Begin Full Circuit Reclear
ASH	Princess	Meade	3117601	46.0	25.0	\$11,983	\$299,582	\$27,487	\$327,069	Finish Full Circuit Reclear, from 2019
ASH	Princess	Route 180	3117602	23.3	23.3	\$11,983	\$279,211	\$25,618	\$304,828	Full Circuit Reclear
<b>Ashland District Totals</b>					<b>497.0</b>		<b>\$5,955,700</b>	<b>\$546,434</b>	<b>\$6,502,134</b>	

2020 Kentucky Power Distribution Five Year Cycle VM Plan					Costs that are not allocated to a circuit include: internal labor & fleet costs, unscheduled hotspot maintenance, ground & 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	Bluegrass	Hazard	3300602	11.1	11.1	\$11,180	\$124,102	\$11,790	\$135,892	Full Circuit Reclear
HAZ	Hazard	Blackgold	3302701	30.3	30.3	\$11,180	\$338,766	\$32,183	\$370,949	Full Circuit Reclear
HAZ	Hazard	Hazard	3302703	11.1	11.1	\$11,180	\$124,102	\$11,790	\$135,892	Full Circuit Reclear
HAZ	Leslie	Hyden	3303901	89.4	89.4	\$11,180	\$999,528	\$94,955	\$1,094,483	Full Circuit Reclear
HAZ	Leslie	Wooton	3303902	129.9	109.9	\$11,180	\$1,228,723	\$116,729	\$1,345,452	Finish Full Circuit Reclear - from 2019
HAZ	Jackson	South Jackson	3308001	26.6	2.0	\$11,180	\$22,361	\$2,124	\$24,485	Finish Full Circuit Reclear - from 2019
HAZ	Jackson	Panbowl	3308002	31.4	0.2	\$11,180	\$2,236	\$212	\$2,449	Finish Full Circuit Reclear - from 2019
HAZ	Bonnyman	Hazard	3308502	65.5	0.2	\$11,180	\$2,236	\$212	\$2,449	Finish Full Circuit Reclear - from 2019
HAZ	Collier	Upper Rockhouse	3308601	37.3	37.3	\$11,180	\$416,805	\$39,597	\$456,402	Full Circuit Reclear
HAZ	Whitesburg	Cowan	3309103	43.9	43.9	\$11,180	\$490,820	\$46,628	\$537,447	Full Circuit Reclear
HAZ	Vicco	Redfox	3309301	47.8	47.8	\$11,180	\$534,535	\$50,781	\$585,316	Full Circuit Reclear
HAZ	Slemp	Beechfork	3309903	1.7	1.7	\$11,180	\$19,230	\$1,827	\$21,057	Full Circuit Reclear
HAZ	Slemp	Royal Diamond	3309904	2.3	2.3	\$11,180	\$25,715	\$2,443	\$28,158	Full Circuit Reclear
HAZ	Shamrock	Shamrock	3311701	28.7	0.2	\$11,180	\$2,236	\$212	\$2,449	Finish Full Circuit Reclear - from 2019
HAZ	Engle	Grapevine	3312202	99.6	57.7	\$11,180	\$645,109	\$61,285	\$706,394	Finish Full Circuit Reclear - from 2019
HAZ	Mayking	Ermine	3314401	28.1	28.1	\$11,180	\$313,826	\$29,813	\$343,639	Full Circuit Reclear
HAZ	Mayking	Millstone	3314402	53.5	23.1	\$11,180	\$258,502	\$24,558	\$283,060	Begin Full Circuit Reclear
HAZ	Softshell	Leburn	3420002	49.7	49.7	\$11,180	\$555,666	\$52,788	\$608,454	Full Circuit Reclear
<b>Hazard District Totals</b>					<b>546.0</b>		<b>\$6,104,498</b>	<b>\$579,927</b>	<b>\$6,684,425</b>	

2020 Kentucky Power Distribution Five Year Cycle VM Plan					Costs that are not allocated to a circuit include: internal labor & fleet costs, unscheduled hotspot maintenance, ground & 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	Allen	Distribution	3400101	27.2	27.2	\$10,811	\$294,052	\$26,465	\$320,517	Full Circuit Reclear
PKV	Falcon	Salyersville	3401102	45.0	45.0	\$10,811	\$486,483	\$43,783	\$530,266	Full Circuit Reclear
PKV	Falcon	Burning Fork	3401103	72.6	72.6	\$10,811	\$784,859	\$70,637	\$855,496	Full Circuit Reclear
PKV	Keyser	Mullins	3402003	29.6	29.6	\$10,811	\$319,998	\$28,800	\$348,797	Full Circuit Reclear
PKV	Pikeville	City	3403001	20.0	20.0	\$10,811	\$216,215	\$19,459	\$235,674	Full Circuit Reclear
PKV	Pikeville	Cedar Creek	3403003	28.0	28.0	\$10,811	\$302,700	\$27,243	\$329,944	Full Circuit Reclear
PKV	Beaver Creek	Ligon	3403201	80.2	31.2	\$10,811	\$337,295	\$30,357	\$367,651	Finish Full Circuit Reclear - from 2019
PKV	Spring Fork	Single Phase	3404002	8.2	8.2	\$10,811	\$88,648	\$7,978	\$96,626	Full Circuit Reclear
PKV	Sidney	Coburn Mtn	3404302	46.1	46.1	\$10,811	\$498,375	\$44,854	\$543,228	Full Circuit Reclear
PKV	W. Paintsville	Staffordsville	3409002	47.0	47.0	\$10,811	\$508,104	\$45,729	\$553,834	Full Circuit Reclear
PKV	Kenwood	Auxier	3409302	40.2	40.2	\$10,811	\$434,591	\$39,113	\$473,705	Full Circuit Reclear
PKV	Feds Creek	Feds Creek	3409401	41.0	41.0	\$10,811	\$443,240	\$39,892	\$483,132	Full Circuit Reclear
PKV	Feds Creek	Lick Creek	3409402	17.0	17.0	\$10,811	\$183,782	\$16,540	\$200,323	Full Circuit Reclear
PKV	E. Prestonsburg	Lancer	3410602	25.0	25.0	\$10,811	\$270,268	\$24,324	\$294,592	Full Circuit Reclear
PKV	Dewey	Inez	3411401	15.3	15.3	\$10,811	\$165,404	\$14,886	\$180,291	Begin Full Circuit Reclear
PKV	Johns Creek	Raccoon	3411802	84.0	84.0	\$10,811	\$908,101	\$81,729	\$989,831	Full Circuit Reclear
PKV	Garrett	Garrett	3413401	38.4	16.7	\$10,811	\$180,539	\$16,249	\$196,788	Begin Full Circuit Reclear
PKV	Beehide	Beehide	3451201	4.0	4.0	\$10,811	\$43,243	\$3,892	\$47,135	Full Circuit Reclear
PKV	Big Rock	Conaway	3974101	0.9	0.9	\$10,811	\$9,730	\$876	\$10,606	Full Circuit Reclear
<b>Pikeville District Totals</b>					<b>599.0</b>		<b>\$6,475,629</b>	<b>\$582,807</b>	<b>\$7,058,436</b>	
<b>Kentucky Power Totals</b>					<b>1,642.0</b>		<b>\$18,535,827</b>	<b>\$1,709,168</b>	<b>\$20,244,995</b>	

**Attachment 3 – 2020 Annual Spray Plan**

<b>Kentucky Power 2020 Distribution VM Spray Plan - Cycle Based</b>		
<b>District</b>	<b>Acres</b>	<b>O&amp;M Budget</b>
Ashland	720	\$468,199
Hazard	790	\$513,719
Pikeville	1,200	\$780,332
<b>KY Total</b>	<b>2,710</b>	<b>\$1,762,250</b>

**Attachment 4 – 2020 Recapitulation Expenditures by District**

<b>Kentucky Power Company 2020 Distribution VM O&amp;M Forestry Plan - Summary</b>				
<b>Activity</b>	<b>Total O&amp;M</b>	<b>Ashland</b>	<b>Hazard</b>	<b>Pikeville</b>
5 Year Cycle Maintenance	\$18,535,827	\$5,955,700	\$6,104,498	\$6,475,629
Spray - Ground and Aerial	\$1,762,250	\$468,199	\$513,719	\$780,332
Internal - KY Forestry Staff	\$817,500	\$272,500	\$272,500	\$272,500
Unscheduled/Reactive Maintenance	\$357,200	\$75,734	\$160,733	\$120,733
<b>2020 Total 5 yr. Cycle O&amp;M Budget</b>	<b>\$21,472,777</b>	<b>\$6,772,133</b>	<b>\$7,051,450</b>	<b>\$7,649,194</b>

<b>Kentucky Power Company 2020 Distribution VM Capital Forestry Plan - Summary</b>				
<b>Activity</b>	<b>Total CAP</b>	<b>Ashland</b>	<b>Hazard</b>	<b>Pikeville</b>
Capital Assoc. w/ 5 Yr. Cycle Maintenance	\$1,709,168	\$546,434	\$579,927	\$582,807
Internal - KY Forestry Staff	\$190,500	\$63,500	\$63,500	\$63,500
Capital Reliability Pilot Program	\$6,500,000	\$100,000	\$100,000	\$6,300,000
Internal - KY Forestry Staff	\$200,000	\$3,000	\$3,000	\$194,000
<b>2020 Total Capital Budget</b>	<b>\$8,599,668</b>	<b>\$712,934</b>	<b>\$746,427</b>	<b>\$7,140,307</b>

**Section 5 - Circuit Report**  
**Reporting Year : 2019**

	District	Station/ Circuit Number	Station Name	Circuit Name	Station Location	Area Served	Circuit Length (Mi)	Number of Customers Served	Last Circuit R/W Trim Date Completed	Reliability Data For Reporting Year				Circuit Outage Causes for Report Year		List of Corrective Actions	Comments
										Circuit 5 Year Avg SAIDI	Reporting Year SAIDI	Circuit 5 Year Avg SAIFI	Reporting Year SAIFI	Outage Causes	% of Outages Due to Causes Listed in Previous Column		
1	PIKEVILLE	2970603	HURLEY	RACEFORK	Nickelsville, Virginia	Paw Paw	3.47	45	5/10/2018	1358.0	3113.3	3.247	5.511	SCHEDULED COMPANY, TREE OUT OF ROW, FACILITATION OF WORK, TREE INSIDE ROW, EQUIPMENT FAILURE	33.33%, 25.00%, 25.00%, 8.33%, 8.33%	No further actions planned for 2020.	Two Tree Out Of Row outages accounted for 38.4% of total SAIDI and 40.1% of total SAIFI.
2	PIKEVILLE	2150105	SPRIGG	MATEWAN	Lobata, KY	Sprigg, Lobata, Matewan, McCarr, Thacker	9.42	123	2/24/2018	1496.6	2649.5	4.309	3.569	EQUIPMENT FAILURE, TREE OUT OF ROW, WEATHER - UNKNOWN, VINE, CUST. EQUIPMENT > 1 CUSTOMER, SCHEDULED COMPANY	34.78%, 30.43%, 17.39%, 8.70%, 4.35%, 4.35%	No further actions planned for 2020.	One Equipment Failure (Feeder Breaker) outage accounted for 31.36% of total SAIDI and 27.57% of total SAIFI.
3	PIKEVILLE	3404002	SPRINGFORK	SINGLE PHASE	3173 Mine Shaft Road, Lambric, KY 41339	Ky Route 542, Mine Shaft Road	7.91	20	3/27/2020	1359.0	2219.6	2.545	3.850	TREE OUT OF ROW, WEATHER - UNKNOWN	83.33%, 16.67%	No further actions planned for 2020.	Two Tree Out of ROW outages accounted for 86% of the total SAIDI and 40% of the total SAIFI for this circuit in 2019.
4	PIKEVILLE	3417601	NEW CAMP	SOUTHSIDE	339 New Camp Road, South Williamson, KY 41503	Turkey Creek	13.20	304	7/6/2018	616.1	2196.9	2.780	6.855	SCHEDULED COMPANY, TREE OUT OF ROW, EQUIPMENT FAILURE, UNKNOWN (NON WEATHER), WEATHER - LIGHTNING, VINE, ABNORMAL FEED, FACILITATION OF WORK, WEATHER - UNKNOWN, ANIMAL - BIRD	41.67%, 19.44%, 13.89%, 8.33%, 2.78%, 2.78%, 2.78%, 2.78%, 2.78%, 2.78%	No further actions planned for 2020.	One Equipment Failure outages accounted for 61.81% of total SAIDI and 25.09% of total SAIFI. One Tree Out Of Row(Feeder Breaker) outages accounted for 13.2% of total SAIDI and 22.75% of total SAIFI.
5	PIKEVILLE	3202201	LOVELY	LOVELY	Hwy 292, Lovely, KY 41649	Beauty, Hode, Stepptown, Greyeagle, Warfield, Kermit	53.84	938	12/17/2016	1044.5	2194.4	4.317	6.057	SCHEDULED COMPANY, TREE OUT OF ROW, EQUIPMENT FAILURE, VINE, UNKNOWN (NON WEATHER), FACILITATION OF WORK, WEATHER - UNKNOWN, WEATHER - FLOOD/SLIDE, VANDALISM, TREE INSIDE ROW, VEHICLE ACCIDENT (NON AEP)	29.03%, 27.42%, 11.29%, 11.29%, 8.06%, 3.23%, 3.23%, 1.61%, 1.61%, 1.61%, 1.61%	No further actions planned for 2020.	Three Tree Out Of Row(Feeder Breaker) outages accounted for 72.14% of total SAIDI and 66.04% of total SAIFI.
6	HAZARD	3308402	BECKHAM	CARR CREEK	Rt 899, Beckham	Brinkley, Spider, Bath, Litt Carr	51.37	770	7/24/2018	1122.3	2144.1	5.606	11.051	TREE OUT OF ROW, EQUIPMENT FAILURE, SCHEDULED COMPANY, UNKNOWN (NON WEATHER), VEHICLE ACCIDENT (NON AEP), OTHER, VINE, CUST. EQUIPMENT > 1 CUSTOMER, WEATHER - UNKNOWN, SCHEDULED OUTSIDE REQUEST > 1 CUSTOMER, TREE INSIDE ROW	39.13%, 19.56%, 13.04%, 10.86%, 4.34%, 2.17%, 2.17%, 2.17%, 2.17%, 2.17%, 2.17%	No further actions planned for 2020.	Tree Out of Row outages accounted for 69.73% of the total SAIDI and 60.85% of the total SAIFI. Equipment failure accounted for 17.67% of the total SAIDI and 18.20% of the total SAIFI.
7	PIKEVILLE	3408402	KIMPER	GRAPEVINE	11893 KY Highway 194, Phyllis, KY 41554	Kimper, Phyllis	44.89	594	4/24/2018	949.8	1791.0	3.178	5.763	TREE OUT OF ROW, EQUIPMENT FAILURE, UNKNOWN (NON WEATHER), SCHEDULED COMPANY, ANIMAL - NON BIRD, VINE, WEATHER - UNKNOWN, CONTAMINATION/FLASHOVER, FACILITATION OF WORK, FIRE - AEP, OR AFFECTING > 1 CUSTOMER	32.35%, 26.47%, 14.71%, 5.88%, 5.88%, 2.94%, 2.94%, 2.94%, 2.94%	No further actions planned for 2020.	Four Tree Out Of Row outages accounted for 62.47% of total SAIDI and 39.85% of total SAIFI. One Weather - Flood/Slide outage accounted for 20.58% of total SAIDI and 11.27% of total SAIFI.
8	PIKEVILLE	3202203	LOVELY STATION	MOUNT STERLING	Hwy 292, Lovely, KY 41649	Lovely, Naugatuck	16.39	197	4/19/2018	1212.4	1741.1	5.068	7.584	TREE OUT OF ROW, SCHEDULED COMPANY, UNKNOWN (NON WEATHER), WEATHER - UNKNOWN, FACILITATION OF WORK, FIRE - AEP, OR AFFECTING > 1 CUSTOMER, EQUIPMENT FAILURE	35.29%, 17.65%, 11.76%, 11.76%, 11.76%, 5.88%, 5.88%	No further actions planned for 2020.	Three Tree Out Of Row(Feeder Breaker) outages accounted for 28.98% of total SAIDI and 12.98% of total SAIFI.
9	HAZARD	3309901	SLEMP	DEFEATED CREEK	Rt 699, Slemp	Defeated Creek Hwy 1103	13.49	27	4/11/2016	1564.0	1687.4	3.812	6.259	UNKNOWN (NON WEATHER), TREE OUT OF ROW, WEATHER - LIGHTNING, SCHEDULED COMPANY, WEATHER - UNKNOWN, EQUIPMENT FAILURE, FACILITATION OF WORK	26.67%, 20.00%, 13.33%, 13.33%, 13.33%, 6.67%, 6.67%	No further actions planned for 2020.	Tree Out of Row outages accounted for 36.62% of the total SAIDI and 21.30% of the total SAIFI. One weather related (lightning strike) accounted for 29.34% of the total SAIDI and 34.32% of the total SAIFI.
10	HAZARD	3308401	BECKHAM	HINDMAN	Rt 899, Beckham	Dwarf, Hindman, Emmalena	103.83	1,810	6/9/2018	929.6	1642.4	4.199	7.867	SCHEDULED COMPANY, TREE OUT OF ROW, EQUIPMENT FAILURE, UNKNOWN (NON WEATHER), FACILITATION OF WORK, WEATHER - UNKNOWN, SCHEDULED OUTSIDE REQUEST > 1 CUSTOMER, TREE INSIDE ROW, WEATHER - FLOOD/SLIDE, VEHICLE ACCIDENT (NON AEP), ANIMAL - BIRD, ERROR - FIELD, VANDALISM, VINE, FIRE - AEP, OR AFFECTING > 1 CUSTOMER, TREE REMOVAL (NON AEP)	35.97%, 20.14%, 14.39%, 7.91%, 5.04%, 2.88%, 2.16%, 2.16%, 1.44%, 1.44%, 1.44%, 1.44%, 1.44%, 0.72%, 0.72%, 0.72%	No further actions planned for 2020.	Tree Out of Row outages accounted for 55.34% of the total SAIDI and 26.45% of the total SAIFI.



**Section 5 - Circuit Report**  
**Reporting Year : 2019**

	District	Station/ Circuit Number	Station Name	Circuit Name	Station Location	Area Served	Circuit Length (Mi)	Number of Customers Served	Last Circuit R/W Trim Date Completed	Reliability Data For Reporting Year				Circuit Outage Causes for Report Year		List of Corrective Actions	Comments
										Circuit 5 Year Avg SAIDI	Reporting Year SAIDI	Circuit 5 Year Avg SAIFI	Reporting Year SAIFI	Outage Causes	% of Outages Due to Causes Listed in Previous Column		
11	HAZARD	3307301	BULAN	ARY-HEINER	Carriage Lane, Bulan	Bulan, Ary, Talcum	53.08	714	2/6/2019	885.8	1472.3	2.884	3.761	SCHEDULED COMPANY, UNKNOWN (NON WEATHER), TREE OUT OF ROW, EQUIPMENT FAILURE, FACILITATION OF WORK, ANIMAL - BIRD, VEHICLE ACCIDENT (NON AEP), CUST. EQUIPMENT > 1 CUSTOMER, WEATHER - UNKNOWN, FIRE - AEP, OR AFFECTING > 1 CUSTOMER, OTHER	29.41%, 14.71%, 14.71%, 11.76%, 8.82%, 5.88%, 2.94%, 2.94%, 2.94%, 2.94%	No further actions planned for 2020.	Tree Out of Row outages accounted for 74.55% of the total SAIDI and 41.07% of the total SAIFI.
12	PIKEVILLE	3411401	DEWEY	INEZ	200 N. Daniels Creek, Van Lear, KY 41265	City of Inez, Ky Hwy 3, Blacklog Road	173.71	2,738	10/15/2016	980.8	1460.0	5.624	7.388	TREE OUT OF ROW, SCHEDULED COMPANY, EQUIPMENT FAILURE, UNKNOWN (NON WEATHER), TREE INSIDE ROW, ANIMAL - NON BIRD, FACILITATION OF WORK, VINE, WEATHER - UNKNOWN, SCHEDULED OUTSIDE REQUEST > 1 CUSTOMER, WEATHER - FLOOD/SLIDE, TREE REMOVAL (NON AEP), FOREIGN OBJECT (NON ANIMAL), ANIMAL - BIRD, OTHER	31.84%, 30.85%, 16.42%, 6.97%, 2.99%, 2.49%, 1.99%, 1.49%, 1.49%, 1.00%, 0.50%, 0.50%, 0.50%, 0.50%, 0.50%	Tree Clearing scheduled for 2020	Trees Out of ROW outages accounted for 67% of the total SAIDI and 60% of the total SAIFI. One equipment failure outage accounted for 11% of that total SAIDI and 13% of the total SAIFI.
13	HAZARD	3310502	HADDIX	CANOE	Rt 1110, Haddix	Buckhorn, Canoe	123.13	1,109	1/12/1900	1118.2	1446.6	4.182	5.913	TREE OUT OF ROW, SCHEDULED COMPANY, UNKNOWN (NON WEATHER), EQUIPMENT FAILURE, FACILITATION OF WORK, TREE INSIDE ROW, TREE REMOVAL (NON AEP), VEHICLE ACCIDENT (NON AEP), WEATHER - LIGHTNING, VINE	42.98%, 20.18%, 12.28%, 8.77%, 5.26%, 4.39%, 2.63%, 1.75%, 0.88%, 0.88%	No further actions planned for 2020.	Tree Out of Row outages accounted for 42.64% of the total SAIDI and 26.74% of the total SAIFI.
14	PIKEVILLE	3400602	BURTON	WHEELWRIGHT	85 Upper Burton, Bypro, KY 41612	Ky Route 122, Melvin, Wheelwright	20.92	697	11/22/2019	602.4	1385.8	2.311	5.056	TREE OUT OF ROW, SCHEDULED COMPANY, EQUIPMENT FAILURE, UNKNOWN (NON WEATHER), VINE, WEATHER - UNKNOWN, FACILITATION OF WORK, VEHICLE ACCIDENT (NON AEP)	29.73%, 24.32%, 16.22%, 13.51%, 8.11%, 2.70%, 2.70%, 2.70%	No further actions planned for 2020.	Trees Out of ROW outages accounted for 78% of the total SAIDI and 72% of the total SAIFI for this circuit in 2019.
15	PIKEVILLE	3411801	JOHNSCREEK	META	3697 State Highway 194E, Kimper, KY 41539	McCombs, Gulnare, Mayflowe, Varney, Meta	191.08	1,985	4/30/2019	947.5	1331.4	4.091	5.957	SCHEDULED COMPANY, TREE OUT OF ROW, EQUIPMENT FAILURE, UNKNOWN (NON WEATHER), FACILITATION OF WORK, ANIMAL - NON BIRD, WEATHER - UNKNOWN, VINE, FIRE - AEP, OR AFFECTING > 1 CUSTOMER, TREE INSIDE ROW, TREE REMOVAL (NON AEP), WEATHER - LIGHTNING, OVERLOAD, ANIMAL - BIRD	52.04%, 17.47%, 11.9%, 4.46%, 2.97%, 2.6%, 2.6%, 1.86%, 1.12%, 1.12%, 0.74%, 0.37%, 0.37%, 0.37%	Installing DA Scheme and part of the circuit will part of the Raccoon Station this year.	One Equipment Failure outages accounted for 13.24% of total SAIDI and 13.05% of total SAIFI. Two Tree Out Of Row outages accounted for 19.27% of total SAIDI and 10.68% of total SAIFI.
16	HAZARD	3301401	COMBS	COMBS	Combs Road, Combs	Combs, Air Port Garden, Lotts Creek, Darfork	42.81	62	4/15/2016	187.2	1283.2	1.275	6.371	TREE OUT OF ROW, EQUIPMENT FAILURE, SCHEDULED COMPANY, ANIMAL - NON BIRD, VINE, WEATHER - FLOOD/SLIDE, TREE INSIDE ROW	27.27%, 18.18%, 18.18%, 9.09%, 9.09%, 9.09%, 9.09%	No further actions planned for 2020.	Equipment failure outages accounted for 93.55% of the total SAIDI and 91.26% of the total SAIFI.
17	HAZARD	3301101	CHAVIES	CHAVIES	Hwy 28	Chavies, Buckhorn	68.05	670	11/11/2017	833.3	1281.0	2.477	3.304	TREE OUT OF ROW, EQUIPMENT FAILURE, UNKNOWN (NON WEATHER), WEATHER - UNKNOWN, SCHEDULED COMPANY, FACILITATION OF WORK, WEATHER - LIGHTNING, TREE REMOVAL (NON AEP), WEATHER - FLOOD/SLIDE, VINE, ERROR - FIELD, FIRE - AEP, OR AFFECTING > 1 CUSTOMER, ANIMAL - NON BIRD, TREE INSIDE ROW	32.69%, 17.31%, 13.46%, 7.69%, 5.77%, 3.85%, 3.85%, 3.85%, 1.92%, 1.92%, 1.92%, 1.92%, 1.92%, 1.92%	No further actions planned for 2020.	Tree Out of Row outages accounted for 81.83% of the total SAIDI and 73.49% of the total SAIFI.
18	PIKEVILLE	3409502	BURDINE	LEVISA	12319 Highway 805, Letcher, KY 41537	Jenkins, Elkhorn City	47.52	643	4/27/2019	1037.9	1218.6	4.111	3.835	EQUIPMENT FAILURE, TREE OUT OF ROW, UNKNOWN (NON WEATHER), SCHEDULED COMPANY, WEATHER - UNKNOWN, FACILITATION OF WORK, TREE INSIDE ROW, FIRE - AEP, OR AFFECTING > 1 CUSTOMER, ANIMAL - NON BIRD, VINE, OTHER, FOREIGN OBJECT (NON ANIMAL), TREE REMOVAL (NON AEP)	25.49%, 15.69%, 15.69%, 13.73%, 7.84%, 5.88%, 3.92%, 1.96%, 1.96%, 1.96%, 1.96%, 1.96%, 1.96%	No further actions planned for 2020.	One Tree Out Of Row(Feeder Breaker) outages accounted for 56.38% of total SAIDI and 37.55% of total SAIFI.

**Section 5 - Circuit Report**  
**Reporting Year : 2019**

	District	Station/ Circuit Number	Station Name	Circuit Name	Station Location	Area Served	Circuit Length (Mi)	Number of Customers Served	Last Circuit R/W Trim Date Completed	Reliability Data For Reporting Year				Circuit Outage Causes for Report Year		List of Corrective Actions	Comments
										Circuit 5 Year Avg SAIDI	Reporting Year SAIDI	Circuit 5 Year Avg SAIFI	Reporting Year SAIFI	Outage Causes	% of Outages Due to Causes Listed in Previous Column		
19	HAZARD	3311101	STINNETT	REDBIRD	Greasy Creek Road, Stinnett	Hwy 421, Hwy 426, Redbird	117.62	1,228	7/15/2017	1117.7	1186.5	5.223	6.160	SCHEDULED COMPANY, TREE OUT OF ROW, EQUIPMENT FAILURE, UNKNOWN (NON WEATHER), VINE, WEATHER - UNKNOWN, FACILITATION OF WORK, TREE INSIDE ROW, ANIMAL - NON BIRD, OTHER, TREE REMOVAL (NON AEP), FIRE - AEP, OR AFFECTING > 1 CUSTOMER, VEHICLE ACCIDENT (NON AEP), WEATHER - FLOOD/SLIDE, CONTAMINATION/FLASHOVER, ANIMAL - BIRD, SCHEDULED OUTSIDE REQUEST > 1 CUSTOMER	31.25%, 21.53%, 11.81%, 6.94%, 6.94%, 4.86%, 4.17%, 2.78%, 2.08%, 2.08%, 1.39%, 0.69%, 0.69%, 0.69%, 0.69%, 0.69%	No further actions planned for 2020.	Tree Out of Row outages accounted for 40.38% of the total SAIDI and 16.90% of the total SAIFI. Scheduled outages accounted for 17.00% of the SAIFI.
20	PIKEVILLE	3408304	COLEMAN	CALLOWAY	721 Calloway Branch, Freeburn, KY 41553	Coleman	44.03	533	8/7/2019	886.8	1184.5	3.079	5.053	TREE OUT OF ROW, SCHEDULED COMPANY, EQUIPMENT FAILURE, UNKNOWN (NON WEATHER), VEHICLE ACCIDENT (NON AEP), OTHER, TREE INSIDE ROW, WEATHER - FLOOD/SLIDE, ANIMAL - NON BIRD	27.59%, 20.69%, 17.24%, 6.90%, 6.90%, 6.90%, 3.45%, 3.45%	No further actions planned for 2020.	One Tree Out Of Row outages accounted for 36.48% of total SAIDI and 11.95% of total SAIFI. One Other (Feeder Breaker) outage accounted for 21.02% of total SAIDI and 33.92% of total SAIFI.
21	PIKEVILLE	2150501	BORDERLAND STA	NOLAN	Deskins Drive, Williamson, WV	Nolan, Hatfield, Maher	21.79	196	5/21/2018	982.0	1170.0	2.674	1.821	TREE OUT OF ROW, UNKNOWN (NON WEATHER), WEATHER - UNKNOWN, FACILITATION OF WORK, EQUIPMENT FAILURE, WEATHER - LIGHTNING	35.29%, 29.41%, 11.76%, 11.76%, 5.88%, 5.88%	No further actions planned for 2020.	Two Tree Out Of Row outages accounted for 68.72% of total SAIDI and 53.58% of total SAIFI.
22	HAZARD	3312202	ENGLE	GRAPEVINE	Coal Fields Industrial Drive, Engle	Manuel, Krypton, Dunraven	100.85	1,303	4/10/2020	877.5	1130.8	3.511	5.098	TREE OUT OF ROW, SCHEDULED COMPANY, EQUIPMENT FAILURE, UNKNOWN (NON WEATHER), WEATHER - UNKNOWN, FACILITATION OF WORK, TREE INSIDE ROW, VINE, ERROR - FIELD, FIRE - AEP, OR AFFECTING > 1 CUSTOMER, ANIMAL - BIRD, VEHICLE ACCIDENT (NON AEP)	31.25%, 18.75%, 14.58%, 12.50%, 5.21%, 5.21%, 5.21%, 2.08%, 2.08%, 1.04%, 1.04%, 1.04%	No further actions planned for 2020.	Tree Out of Row outages accounted for 71.74% of the total SAIDI and 54.22% of the total SAIFI.
23	PIKEVILLE	3202202	LOVELY	WOLFCREEK	Hwy 292, Lovely, KY 41649	Pilgrim, Threefork, Laura	73.98	752	11/10/2018	842.7	1082.2	2.855	3.850	TREE OUT OF ROW, EQUIPMENT FAILURE, SCHEDULED COMPANY, UNKNOWN (NON WEATHER), VINE, TREE INSIDE ROW, WEATHER - UNKNOWN, ERROR - OPERATIONS, TREE REMOVAL (NON AEP), FACILITATION OF WORK	39.13%, 19.57%, 15.22%, 8.70%, 4.35%, 4.35%, 2.17%, 2.17%, 2.17%, 2.17%	No further actions planned for 2020.	Two Tree Out Of Row outages accounted for 61.63% of total SAIDI and 52.47% of total SAIFI.
24	ASHLAND	3000701	GRAYS BRANCH	GRAYS BRANCH	166 Corp Street, Greenup, KY 41169	Ohio River Rd, Lloyd, Greenup	79.84	1,236	2/11/2017	388.0	1049.3	1.308	3.786	SCHEDULED COMPANY, UNKNOWN (NON WEATHER), TREE OUT OF ROW, EQUIPMENT FAILURE, WEATHER - UNKNOWN, FACILITATION OF WORK, ANIMAL - BIRD, WEATHER - LIGHTNING, VINE, ANIMAL - NON BIRD, VANDALISM, TREE INSIDE ROW	42.15%, 16.53%, 14.88%, 11.57%, 4.96%, 3.31%, 2.48%, 0.83%, 0.83%, 0.83%, 0.83%, 0.83%	No further actions planned for 2020	One Vandalism outage at the station accounted for 48% of the total SAIDI and 26% of the total SAIFI. Tree Out of ROW outages accounted for 23% of the total SAIDI and 20% of the total SAIFI.
25	PIKEVILLE	3451201	BEEFHIDE	BEEFHIDE	Improvement Branch Road, Jenkins, KY 41537	Andy Wright Br	4.86	1	4/24/2020	1349.2	1036.0	1.800	4.000	WEATHER - UNKNOWN, ERROR - FIELD	50.00%, 50.00%	Building Tie-line with Elwood-Dorton Ckt this year. R/W on 2020 Work Plan	One Weather - Unknown outage accounted for 61.58% of total SAIDI and 50.00% of total SAIFI. Four Weather - One Error - Field outage accounted for 38.42% of total SAIDI and 50.00% of total SAIFI.
26	PIKEVILLE	3409401	FEDSCREEK	FEDSCREEK	21379 Card Mountain Road, Mouthcard, KY 41548	Mouthcard, Fedscreek, Steele, Toonerville	51.81	787	3/27/2020	756.0	981.6	3.141	5.156	SCHEDULED COMPANY, EQUIPMENT FAILURE, TREE OUT OF ROW, VINE, UNKNOWN (NON WEATHER), FACILITATION OF WORK, TREE INSIDE ROW, ANIMAL - NON BIRD, TREE REMOVAL (NON AEP), WEATHER - UNKNOWN, WEATHER - HIGH WINDS (EXCEEDING 60 MPH), VEHICLE ACCIDENT (NON AEP), VANDALISM	24.29%, 21.43%, 17.14%, 10.00%, 7.14%, 4.29%, 4.29%, 2.86%, 2.86%, 1.43%, 1.43%, 1.43%, 1.43%	R/W on 2020 Work Plan	One Scheduled Company(Feeder Breaker) outage accounted for 24.53% of total SAIDI and 19.39% of total SAIFI. One Weather Unknown outage accounted for 10.99% of total SAIDI and 9.11% of total SAIFI.

**Section 5 - Circuit Report**  
**Reporting Year : 2019**

	District	Station/ Circuit Number	Station Name	Circuit Name	Station Location	Area Served	Circuit Length (Mi)	Number of Customers Served	Last Circuit R/W Trim Date Completed	Reliability Data For Reporting Year				Circuit Outage Causes for Report Year		List of Corrective Actions	Comments
										Circuit 5 Year Avg SAIDI	Reporting Year SAIDI	Circuit 5 Year Avg SAIFI	Reporting Year SAIFI	Outage Causes	% of Outages Due to Causes Listed in Previous Column		
27	PIKEVILLE	3410601	E.PRESTON	PRESTONSBURG	2024 South Lake Drive, Prestonsburg, KY 41653	City of Prestonsburg, Town Branch	7.81	614	11/12/2016	487.7	978.0	2.481	3.852	SCHEDULED COMPANY, EQUIPMENT FAILURE, TREE OUT OF ROW, FACILITATION OF WORK, VINE, UNKNOWN (NON WEATHER), ANIMAL - BIRD, WEATHER - UNKNOWN, ANIMAL BUS, UG CONST. /DIG-INS (NON AEP)	40.00%, 20.00%, 13.33%, 6.67%, 3.33%, 3.33%, 3.33%, 3.33%, 3.33%	No further actions planned for 2020.	One Weather (Unknown) outage accounted for 35% of SAIDI and 26% of SAIFI. Scheduled Company outages accounted for 23% of the total SAIDI and 17% of the total SAIFI.
28	HAZARD	3308603	COLLIER	SMOOTCREEK	Cinnamon Rd, Collier	Premium, Smoot Creek	79.51	907	12/13/2019	608.2	938.7	3.178	4.563	SCHEDULED COMPANY, TREE OUT OF ROW, UNKNOWN (NON WEATHER), EQUIPMENT FAILURE, FACILITATION OF WORK, TREE INSIDE ROW, TREE REMOVAL (NON AEP), VINE, OTHER, FIRE - AEP, OR AFFECTING > 1 CUSTOMER, WEATHER - UNKNOWN, ERROR - FIELD, ABNORMAL FEED	40.54%, 26.13%, 13.51%, 7.21%, 2.70%, 2.70%, 1.80%, 0.90%, 0.90%, 0.90%, 0.90%, 0.90%	No further actions planned for 2020.	Tree Out of Row outages accounted for 40.07% of the total SAIDI and 19.72% of the total SAIFI. Scheduled outages accounted for 25.73% of the total SAIDI and 36.51% of the total SAIFI.
29	HAZARD	3307303	BULAN	LOTTSCREEK	Carriage Lane, Bulan	Bulan	2.24	26	4/27/2018	426.2	924.1	1.941	2.500	TREE OUT OF ROW, SCHEDULED COMPANY, EQUIPMENT FAILURE, FACILITATION OF WORK	50.00%, 16.67%, 16.67%, 16.67%	No further actions planned for 2020.	Tree Out of Row outages accounted for 98.03% of the total SAIDI and 75.38% of the total SAIFI.
30	HAZARD	3309003	JEFF	VIPER	Hwy 7, Jeff	Maces Creek Upper River Rd.	67.30	999	8/23/2019	557.1	922.2	2.452	3.372	SCHEDULED COMPANY, TREE OUT OF ROW, EQUIPMENT FAILURE, VINE, FACILITATION OF WORK, UNKNOWN (NON WEATHER), SCHEDULED OUTSIDE REQUEST > 1 CUSTOMER, WEATHER - UNKNOWN, VEHICLE ACCIDENT (NON AEP), TREE INSIDE ROW	46.15%, 20.88%, 9.89%, 6.59%, 6.59%, 5.49%, 1.10%, 1.10%, 1.10%, 1.10%	No further actions planned for 2020.	Tree Out of Row outages accounted for 52.02% of the total SAIDI and 23.44% of the total SAIFI. Scheduled outages accounted for 33.30% of the total SAIDI and 33.04% of the total SAIFI.
31	HAZARD	3309302	VICCO	JEFF	Rowdy Hollow, Vicco	Vicco, Happy Circle, Scuddy	89.04	1,374	8/19/2017	570.1	894.8	2.596	3.103	TREE OUT OF ROW, EQUIPMENT FAILURE, UNKNOWN (NON WEATHER), SCHEDULED COMPANY, FACILITATION OF WORK, TREE INSIDE ROW, WEATHER - UNKNOWN, VEHICLE ACCIDENT (NON AEP), ANIMAL - BIRD, TREE REMOVAL (NON AEP), VANDALISM, VINE, FIRE - AEP, OR AFFECTING > 1 CUSTOMER, ANIMAL - NON BIRD	25.66%, 21.24%, 15.93%, 14.16%, 5.31%, 3.54%, 2.65%, 2.65%, 1.77%, 1.77%, 0.88%, 0.88%, 0.88%	No further actions planned for 2020.	Tree Out of Row outages accounted for 46.52% of the total SAIDI and 28.52% of the total SAIFI. Scheduled outages accounted for 36.86% of the total SAIDI and 19.59% of the total SAIFI.
32	PIKEVILLE	3411802	JOHNSCREEK	RACCOON	3697 State Highway 194E, Kimper, KY 41539	Kimper, Raccoon	101.84	1,667	5/31/2016	613.3	892.4	3.316	2.463	EQUIPMENT FAILURE, SCHEDULED COMPANY, UNKNOWN (NON WEATHER), TREE OUT OF ROW, TREE INSIDE ROW, FACILITATION OF WORK, WEATHER - UNKNOWN, WEATHER - HIGH WINDS (EXCEEDING 60 MPH), FOREIGN OBJECT (NON ANIMAL), OTHER, VINE	22.67%, 21.33%, 18.67%, 16.00%, 6.67%, 4.00%, 2.67%, 2.67%, 2.67%, 1.33%, 1.33%	Installing DA Scheme and part of the circuit will part of the Raccoon Station this year. R/W on 2020 Work Plan.	One Weather - Unknown outages accounted for 61.1% of total SAIDI and 38.39% of total SAIFI. 12 Tree Out Of Row outages accounted for 22.22% of total SAIDI and 27.10% of total SAIFI.
33	PIKEVILLE	3401002	ELWOOD	VIRGIE	3333 Highway 610 West, Jonancy, KY 41538	Jonancy, Virgie, Long Fk, Indian Crk, Little Robinson Crk	100.25	1,829	5/28/2016	639.4	875.2	3.970	5.113	SCHEDULED COMPANY, EQUIPMENT FAILURE, TREE OUT OF ROW, UNKNOWN (NON WEATHER), WEATHER - UNKNOWN, VINE, TREE INSIDE ROW, WEATHER - LIGHTNING, FACILITATION OF WORK, VANDALISM	27.78%, 25%, 15.74%, 12.96%, 6.48%, 6.48%, 2.78%, 0.93%, 0.93%, 0.93%	No further actions planned for 2020.	One Tree Out Of Row outages accounted for 24.04% of total SAIDI and 8.83% of total SAIFI. One Equipment Failure outages accounted for 14.99% of total SAIDI and 15.91% of total SAIFI.
34	PIKEVILLE	3417602	NEW CAMP	APP REG HOSP	339 New Camp Road, South Williamson, KY 41503	Turkey Creek	29.3	663	10/14/2017	574.9	868.6	4.593	4.300	SCHEDULED COMPANY, TREE OUT OF ROW, EQUIPMENT FAILURE, FACILITATION OF WORK, VINE, OTHER, UNKNOWN (NON WEATHER), VEHICLE ACCIDENT (NON AEP), WEATHER - UNKNOWN, ANIMAL - NON BIRD, TREE INSIDE ROW	70.73%, 8.54%, 8.54%, 2.44%, 2.44%, 1.22%, 1.22%, 1.22%, 1.22%, 1.22%, 1.22%	No further actions planned for 2020.	One Equipment Failure outages accounted for 22.31% of total SAIDI and 23.24% of total SAIFI.
35	ASHLAND	3000601	GRAHN	PLEASANTV	3296 Grahn Road, Olive Hill, KY 41164	Grahn Rd and Cory Rd, Grahn	47.49	382	7/1/2017	608.5	847.9	2.370	3.903	TREE OUT OF ROW, SCHEDULED COMPANY, EQUIPMENT FAILURE, UNKNOWN (NON WEATHER), VEHICLE ACCIDENT (NON AEP), WEATHER - UNKNOWN, VINE, ERROR - FIELD, ANIMAL - NON BIRD, VANDALISM	23.08%, 19.23%, 19.23%, 15.38%, 3.85%, 3.85%, 3.85%, 3.85%, 3.85%, 3.85%	Project to build better tie line scheduled for 2021	Tree Out of ROW outages accounted for 35% of the total SAIDI and 31% of the total SAIFI. One Vandalism outage at the station accounted for 25% of the total SAIDI and 24% of the total SAIFI.

**Section 5 - Circuit Report**  
**Reporting Year : 2019**

Circuit ID	District	Station/ Circuit Number	Station Name	Circuit Name	Station Location	Area Served	Circuit Length (Mi)	Number of Customers Served	Last Circuit R/W Trim Date Completed	Reliability Data For Reporting Year				Circuit Outage Causes for Report Year		List of Corrective Actions	Comments
										Circuit 5 Year Avg SAIDI	Reporting Year SAIDI	Circuit 5 Year Avg SAIFI	Reporting Year SAIFI	Outage Causes	% of Outages Due to Causes Listed in Previous Column		
36	HAZARD	3309902	SLEMP	LEATHERWOOD	Rt 699, Slemp	Cornettsville, Slemp, Yeaddiss Road	70.76	799	11/18/2017	806.8	820.4	3.651	4.209	TREE OUT OF ROW, EQUIPMENT FAILURE, UNKNOWN (NON WEATHER), ANIMAL - NON BIRD, SCHEDULED COMPANY, VEHICLE ACCIDENT (NON AEP), WEATHER - LIGHTNING, TREE REMOVAL (NON AEP), ANIMAL - BIRD, WEATHER - UNKNOWN, SCHEDULED OUTSIDE REQUEST > 1 CUSTOMER, TREE INSIDE ROW, WEATHER - FLOOD/SLIDE	24.44%, 15.56%, 15.56%, 11.11%, 6.67%, 4.44%, 4.44%, 4.44%, 4.44%, 2.22%, 2.22%, 2.22%	No further actions planned for 2020.	Weather Issues (Lightning) accounted for 41.74% of the total SAIDI and 31.90% of the total SAIFI. Trees Out of ROW accounted for 32.93% of the total SAIDI and 35.58% of the total SAIFI.
37	ASHLAND	3007904	BUSSEYVILLE STA.	TORCHLIGHT	856 Isaac Park Road, Louisa, KY 41230	Rt 23 towards Ulysses	110.48	942	12/31/2015	971.1	808.4	4.123	4.728	TREE OUT OF ROW, SCHEDULED COMPANY, UNKNOWN (NON WEATHER), EQUIPMENT FAILURE, FACILITATION OF WORK, WEATHER - LIGHTNING, VINE, FIRE - AEP, OR AFFECTING > 1 CUSTOMER, TREE REMOVAL (NON AEP), CUST. EQUIPMENT > 1 CUSTOMER	43.12%, 22.94%, 12.84%, 9.17%, 3.67%, 1.83%, 1.83%, 1.83%, 1.83%, 0.92%	DA went into effect Dec 2019. Project to move portion of main line closer to road completed early 2020. Tree clearing scheduled for 2020	Tree Out of ROW outages accounted for 86% of the total SAIDI and 91% of the total SAIFI.
38	HAZARD	3303901	LESLIE	HYDEN	Azalea Dr, Wooten	City of Hyden, Confluence, Thousandsticks	89.4	894	12/8/2015	788.0	792.5	3.543	3.559	TREE OUT OF ROW, SCHEDULED COMPANY, EQUIPMENT FAILURE, UNKNOWN (NON WEATHER), VINE, TREE INSIDE ROW, FACILITATION OF WORK, WEATHER - UNKNOWN, WEATHER - LIGHTNING, VEHICLE ACCIDENT (NON AEP), CONTAMINATION/FLASHOVER, TREE REMOVAL (NON AEP), ANIMAL - NON BIRD, OTHER	35.05%, 19.59%, 12.37%, 9.28%, 8.25%, 4.12%, 2.06%, 2.06%, 2.06%, 1.03%, 1.03%, 1.03%, 1.03%, 1.03%	No further actions planned for 2020.	Tree Out of Row outages accounted for 71.43% of the total SAIDI and 40.47% of the total SAIFI.
39	ASHLAND	3000201	BIG SANDY	FALLSBURG SOUTH	23000 Us Highway 23, Louisa, KY 41230	N Rt 3 and Rt 1 Fallsburg	105.17	673	10/20/2018	1102.5	761.4	2.832	2.939	TREE OUT OF ROW, SCHEDULED COMPANY, UNKNOWN (NON WEATHER), EQUIPMENT FAILURE, FACILITATION OF WORK, WEATHER - UNKNOWN, TREE INSIDE ROW, ANIMAL - BIRD, VINE, ABNORMAL FEED, VANDALISM	32.81%, 23.44%, 20.31%, 6.25%, 4.69%, 3.13%, 3.13%, 1.56%, 1.56%, 1.56%	No further actions planned for 2020	Tree Out of ROW outages accounted for 76% of the total SAIDI and 63% of the total SAIFI. Scheduled company outages accounted for 12% of the total SAIDI and 19% of the total SAIFI.
40	HAZARD	3309903	SLEMP	BEECH FORK	Rt 699, Slemp	Rt 699, Old Beech Fork Road	1.74	3	12/15/2015	257.5	760.0	0.867	0.667	WEATHER - LIGHTNING	100.00%	No further actions planned for 2020.	Weather Issues (Lightning) accounted for 100% of the total SAIDI and 100% of the total SAIFI.
41	HAZARD	3451202	BEEFHIDE	DUNHAM	Wyatt Row, Beefhide	Beefhide	9.37	203	10/27/20018	526.3	753.8	2.178	3.724	SCHEDULED COMPANY, EQUIPMENT FAILURE, UNKNOWN (NON WEATHER), WEATHER - UNKNOWN, ERROR - FIELD, TREE REMOVAL (NON AEP)	60.00%, 15.00%, 10.00%, 5.00%, 5.00%, 5.00%	No further actions planned for 2020.	Weather Issues accounted for 42.23% of the total SAIDI and 27.51% of the total SAIFI.
42	PIKEVILLE	3401702	HENRYCLAY	REGINA	6949 Marrowbone Creek Road, Marrowbone, KY 41522	Lookout, Rockhouse, Dry Fork, Ratiiff, Venter	145.09	2,539	9/16/2017	550.7	748.7	3.193	4.334	EQUIPMENT FAILURE, TREE OUT OF ROW, UNKNOWN (NON WEATHER), VINE, SCHEDULED COMPANY, FACILITATION OF WORK, FIRE - AEP, OR AFFECTING > 1 CUSTOMER, WEATHER - UNKNOWN, TREE INSIDE ROW, VANDALISM, VEHICLE ACCIDENT (NON AEP), CUST. EQUIPMENT > 1 CUSTOMER, TREE REMOVAL (NON AEP), ERROR - FIELD, ANIMAL - NON BIRD, SCHEDULED OUTSIDE REQUEST > 1 CUSTOMER	23.81%, 21.43%, 12.70%, 11.11%, 10.32%, 5.56%, 3.17%, 3.17%, 3.17%, 0.79%, 0.79%, 0.79%, 0.79%, 0.79%	Installing DA Scheme and part of the circuit will be transferred to the new the Raccoon Station.	One Equipment Failure(Feeder Breaker) outages accounted for 28.31% of total SAIDI and 23.06% of total SAIFI.
43	PIKEVILLE	3200302	BELFRY	TOLER	US Highway 119N, Belfry, KY	Forest Hill, Toler, Belfry, Hardy	53.2	1,070	1/20/2018	673.5	726.2	4.425	5.258	SCHEDULED COMPANY, TREE OUT OF ROW, EQUIPMENT FAILURE, UNKNOWN (NON WEATHER), FACILITATION OF WORK, WEATHER - UNKNOWN, ANIMAL - NON BIRD, VINE, ANIMAL - BIRD	62.26%, 16.98%, 5.66%, 4.72%, 4.72%, 1.89%, 1.89%, 0.94%, 0.94%	No further actions planned for 2020.	One Tree Out Of Row outages accounted for 14.01% of total SAIDI and 15.55% of total SAIFI.

**Section 5 - Circuit Report**  
**Reporting Year : 2019**

	District	Station/ Circuit Number	Station Name	Circuit Name	Station Location	Area Served	Circuit Length (Mi)	Number of Customers Served	Last Circuit R/W Trim Date Completed	Reliability Data For Reporting Year				Circuit Outage Causes for Report Year		List of Corrective Actions	Comments
										Circuit 5 Year Avg SAIDI	Reporting Year SAIDI	Circuit 5 Year Avg SAIFI	Reporting Year SAIFI	Outage Causes	% of Outages Due to Causes Listed in Previous Column		
44	PIKEVILLE	3420103	MAYO TRAIL	DAVIS BRANCH	632 Ponderosa Drive, Paintsville, KY 41240	Ky Route 40E, Ky Route 1107, Buffalo Road	32.85	1,024	2/11/2017	293.3	723.4	1.922	3.638	SCHEDULED COMPANY, TREE OUT OF ROW, EQUIPMENT FAILURE, FACILITATION OF WORK, ANIMAL - NON BIRD, UNKNOWN (NON WEATHER), SCHEDULED OUTSIDE REQUEST > 1 CUSTOMER, WEATHER - UNKNOWN, OTHER, WEATHER - FLOOD/SLIDE, TREE INSIDE ROW, VEHICLE ACCIDENT (NON AEP)	28.24%, 24.71%, 12.94%, 10.59%, 9.41%, 3.53%, 3.53%, 2.35%, 1.18%, 1.18%, 1.18%, 1.18%	No further actions planned for 2020.	Trees Out of ROW outages accounted for 24% of the total SAIDI and 33% of the total SAIFI. Two Equipment Failure events accounted for 22% of SAIDI and 30% of SAIFI. Two Scheduled Company outages accounted for 9% of SAIDI and 10% of SAIFI. One Weather-Unknown event accounted for 3% of SAIDI and 7% of SAIFI.
45	HAZARD	3309104	WHITESBURG	CRAFTS COLLEY	Rt 931, Whitesburg	City of Whitesburg, Ermine, Sandlick Gap, Licking Rock Branch	27.81	535	2/10/2016	471.1	706.2	2.508	3.908	TREE OUT OF ROW, EQUIPMENT FAILURE, SCHEDULED COMPANY, UNKNOWN (NON WEATHER), FOREIGN OBJECT (NON ANIMAL), VEHICLE ACCIDENT (NON AEP), TREE INSIDE ROW, OTHER	32.35%, 26.47%, 17.65%, 11.76%, 2.94%, 2.94%, 2.94%	No further actions planned for 2020.	Tree Out of Row outages accounted for 93.94% of the total SAIDI and 82.40% of the total SAIFI.
46	HAZARD	3310503	HADDIX	TROUBLESOME CREEK	Rt 1110, Haddix	Clayhole, Hardshell, Lost Creek, Rowdy	92.1	984	3/29/2018	579.5	678.6	2.579	3.556	TREE OUT OF ROW, EQUIPMENT FAILURE, SCHEDULED COMPANY, UNKNOWN (NON WEATHER), FACILITATION OF WORK, WEATHER - UNKNOWN, TREE INSIDE ROW, WEATHER - LIGHTNING, VEHICLE ACCIDENT (NON AEP), CUST. EQUIPMENT > 1 CUSTOMER, FIRE - AEP, OR AFFECTING > 1 CUSTOMER, ERROR - FIELD	27.66%, 22.34%, 20.21%, 10.64%, 5.32%, 5.32%, 3.19%, 1.06%, 1.06%, 1.06%, 1.06%, 1.06%	No further actions planned for 2020.	Tree Out of Row outages accounted for 51.63% of the total SAIDI and 41.38% of the total SAIFI.
47	PIKEVILLE	3409402	FEDSCREEK	LICKCREEK	21379 Card Mountain Road, Mouthcard, KY 41548	Mikegrady, Honey Fork	21.69	332	5/30/2020	411.2	674.9	2.230	4.349	TREE OUT OF ROW, EQUIPMENT FAILURE, SCHEDULED COMPANY, UNKNOWN (NON WEATHER), VINE, VANDALISM	34.78%, 26.09%, 21.74%, 8.70%, 4.35%, 4.35%	R/W on 2020 Work Plan	TwoTree Out Of Row outages accounted for 58.82% of total SAIDI and 31.54% of total SAIFI.
48	PIKEVILLE	3407101	TOPMOST	DEMA	7429 South Highway 7, Topmost, KY 41862	Dry Creek, Potato Branch, Dema	36.17	527	4/15/2016	750.4	659.0	3.040	3.148	SCHEDULED COMPANY, EQUIPMENT FAILURE, TREE OUT OF ROW, ANIMAL - NON BIRD, WEATHER - UNKNOWN, TREE REMOVAL (NON AEP), TREE INSIDE ROW, UNKNOWN (NON WEATHER), FACILITATION OF WORK, VEHICLE ACCIDENT (NON AEP), ERROR - FIELD, OTHER, ANIMAL - BIRD	40.48%, 14.29%, 9.52%, 7.14%, 4.76%, 4.76%, 4.76%, 2.38%, 2.38%, 2.38%, 2.38%, 2.38%	No further actions planned for 2020.	One Trees Out of ROW outage accounted for 31% of the total SAIDI and 33% of the total SAIFI.
49	HAZARD	3309103	WHITESBURG	COWAN	Rt 931, Whitesburg	City of Whitesburg, Cowan Creek	43.79	878	6/22/2015	540.5	648.1	3.260	4.366	SCHEDULED COMPANY, TREE OUT OF ROW, UNKNOWN (NON WEATHER), EQUIPMENT FAILURE, FACILITATION OF WORK, VEHICLE ACCIDENT (NON AEP), TREE INSIDE ROW, FIRE - AEP, OR AFFECTING > 1 CUSTOMER, WEATHER - UNKNOWN, WEATHER - FLOOD/SLIDE, TREE REMOVAL (NON AEP), ERROR - FIELD, SCHEDULED OUTSIDE REQUEST > 1 CUSTOMER	47.9%, 20.17%, 15.13%, 6.72%, 1.68%, 1.68%, 1.68%, 0.84%, 0.84%, 0.84%, 0.84%, 0.84%	No further actions planned for 2020.	Scheduled outages accounted for 52.04% of the total SAIDI and 33.66% of the total SAIFI. Tree Out of Rowoutages accounted for 30.28% of the total SAIDI and 37.50% of the total SAIFI.
50	PIKEVILLE	3403701	RUSSELLFORK	LITTLE BEAVER	3354 Beaver Creek Road, Elkhorn, KY 41522	Elkhorn City	14.04	131	12/16/2017	629.8	632.7	2.755	3.076	TREE OUT OF ROW, UNKNOWN (NON WEATHER), EQUIPMENT FAILURE, FACILITATION OF WORK, VANDALISM, OTHER, SCHEDULED COMPANY	28.57%, 21.43%, 21.43%, 7.14%, 7.14%, 7.14%	No further actions planned for 2020.	One Tree Out Of Row outages accounted for 31.90% of total SAIDI and 10.40% of total SAIFI. One Vandalism outage accounted for 21.00% of total SAIDI and 31.76% of total SAIFI.
51	PIKEVILLE	3403202	BEAVERCREEK	PRICE	17475 Ky Route 122, Hi Hat, KY 41636	Rt 122, Spewing Camp Branch	25.7	391	12/20/2019	569.7	624.6	2.871	3.212	SCHEDULED COMPANY, TREE OUT OF ROW, FACILITATION OF WORK, FIRE - AEP, OR AFFECTING > 1 CUSTOMER, VINE, TREE INSIDE ROW, SCHEDULED OUTSIDE REQUEST > 1 CUSTOMER, EQUIPMENT FAILURE, ANIMAL - NON BIRD	29.62%, 25.92%, 14.81%, 11.11%, 3.70%, 3.70%, 3.70%, 3.70%	No further actions planned for 2020.	Two Tree Out of ROW outages accounted for 51% of the total SAIDI and 73% of the total SAIFI.

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										Circuit 5 Year Avg SAIDI	Reporting Year SAIDI	Circuit 5 Year Avg SAIFI	Reporting Year SAIFI	Outage Causes	% of Outages Due to Causes Listed in Previous Column		
52	PIKEVILLE	3409302	KENWOOD	AUXIER	980 Industrial Park, Hager Hill, KY 41222	Van Lear, Ky Route 321, East Point, Hager Branch, George Branch, Davis Branch	41.31	1,017	6/16/2015	320.1	617.2	1.619	3.219	TREE OUT OF ROW, SCHEDULED COMPANY, EQUIPMENT FAILURE, ANIMAL - NON BIRD, WEATHER - FLOOD/SLIDE, TREE INSIDE ROW, VINE, FACILITATION OF WORK, WEATHER - UNKNOWN	40.00%, 15.00%, 13.33%, 13.33%, 5.00%, 5.00%, 3.33%, 3.33%, 1.67%	Tree Clearing scheduled for 2020	Two Trees Out of ROW outage accounted for 37% of the total SAIDI and 44% of the total SAIFI. One Trees Inside ROW outage accounted for 36% of the total SAIDI and 32% of the total SAIFI.
53	PIKEVILLE	3403201	BEAVERCREEK	LIGON	17475 Ky Route 122, Hi Hat, KY 41636	Rt 979, Ky Route 3379	72.01	1,478	2/20/2020	529.4	615.9	2.868	3.069	EQUIPMENT FAILURE, TREE OUT OF ROW, UNKNOWN (NON WEATHER), TREE INSIDE ROW, SCHEDULED OUTSIDE REQUEST > 1 CUSTOMER, SCHEDULED COMPANY, VINE, WEATHER - UNKNOWN, WEATHER - FLOOD/SLIDE, FACILITATION OF WORK, VEHICLE ACCIDENT (NON AEP), OTHER	23.07%, 15.38%, 11.53%, 10.25%, 8.97%, 8.97%, 6.41%, 6.41%, 2.56%, 2.56%, 2.56%, 1.28%	Distribution automation project scheduled to be completed in 2020.	Two Tree Out of ROW outages accounted for 57% of the total SAIDI and 65% of the total SAIFI.
54	PIKEVILLE	3400601	BURTON	BEVINSONVILLE	85 Upper Burton, Bypro, KY 41612	Jacks, Creek, Orchard Fork, Riley's Branch	19.57	332	12/20/2019	365.5	612.7	2.266	2.777	TREE OUT OF ROW, SCHEDULED COMPANY, UNKNOWN (NON WEATHER), FACILITATION OF WORK, FIRE - AEP, OR AFFECTING > 1 CUSTOMER, EQUIPMENT FAILURE, VINE, OTHER, WEATHER - LIGHTNING, TREE REMOVAL (NON AEP), SCHEDULED OUTSIDE REQUEST > 1 CUSTOMER	36.36%, 21.21%, 9.09%, 6.06%, 6.06%, 6.06%, 3.03%, 3.03%, 3.03%	No further actions planned for 2020.	Two Trees Out of ROW outages accounted for 36% of the total SAIDI and 45% of the total SAIFI. One Scheduled Company outages accounted for 35% of SAIDI and 21% of SAIFI.
55	ASHLAND	3000202	BIG SANDY	BURNAUGH NORTH	23000 Us Highway 23, Louisa, KY 41230	Hwy 23 and Burnaugh, Catlettsburg	94.68	786	10/31/2015	477.0	611.8	1.544	1.842	TREE OUT OF ROW, UNKNOWN (NON WEATHER), EQUIPMENT FAILURE, SCHEDULED COMPANY, WEATHER - UNKNOWN, VINE, FACILITATION OF WORK, ERROR - FIELD, CUST. EQUIPMENT > 1 CUSTOMER, OTHER UTILITY	40%, 24.71%, 8.24%, 8.24%, 8.24%, 3.53%, 3.53%, 1.18%, 1.18%, 1.18%	Tree clearing scheduled for 2020	Tree Out of ROW outages accounted for 83% of the total SAIDI and 72% of the total SAIFI.
56	PIKEVILLE	3413402	GARRETT	LACKEY	611 Stonecoal Road, Garrett, KY 41630	Hwy 550, Jones Fork, Waylon	34.45	515	1/25/2017	461.2	565.0	1.861	2.043	TREE OUT OF ROW, WEATHER - UNKNOWN, UNKNOWN (NON WEATHER), SCHEDULED OUTSIDE REQUEST > 1 CUSTOMER, SCHEDULED COMPANY, TREE INSIDE ROW, FACILITATION OF WORK, VINE, EQUIPMENT FAILURE, VEHICLE ACCIDENT (NON AEP)	29.63%, 18.52%, 11.11%, 11.11%, 7.41%, 7.41%, 3.70%, 3.70%, 3.70%	No further actions planned for 2020.	One Tree Out of ROW outage accounted for 30% of the total SAIDI and 11% of the total SAIFI.
57	ASHLAND	3110903	WURTLAND	RT.503	50 Wurtland Avenue, Wurtland, KY 41144	Rt 503 and Wurtland Ave	55.26	962	3/18/2017	599.7	563.9	1.965	2.222	SCHEDULED COMPANY, UNKNOWN (NON WEATHER), TREE OUT OF ROW, EQUIPMENT FAILURE, FACILITATION OF WORK, VEHICLE ACCIDENT (NON AEP), VINE, WEATHER - UNKNOWN, FOREIGN OBJECT (NON ANIMAL), OTHER, ANIMAL - BIRD, TREE INSIDE ROW	34.43%, 21.31%, 13.11%, 9.84%, 4.92%, 3.28%, 3.28%, 3.28%, 1.64%, 1.64%, 1.64%, 1.64%	Project to build better tie line scheduled for 2021	One Tree Out of ROW outage accounted for 54% of the total SAIDI and 29% of the total SAIFI. One OTHER outage accounted for 33% of the total SAIDI and 29% of the total SAIFI.
58	ASHLAND	3117602	PRINCESS	ROUTE 180	Off Paul Coffey Blvd, along Mackey Ln, Ashland	SR 5, Straight Creek Road, Buena Vista Dr, East Park Industrial Sites	30.71	301	2/29/2020	319.2	562.7	2.323	4.973	SCHEDULED COMPANY, EQUIPMENT FAILURE, TREE OUT OF ROW, WEATHER - UNKNOWN, WEATHER - LIGHTNING, TREE INSIDE ROW	27.78%, 27.78%, 22.22%, 11.11%, 5.56%, 5.56%	Tree clearing completed in 2020	Tree Out of ROW outages accounted for 46% of the total SAIDI and 22% of the total SAIFI. One Scheduled Company outage (to reconductor) accounted for 30% of the total SAIDI and 18% of the total SAIFI.
59	ASHLAND	3103103	OLIVEHILL	W.CARTERS ELEM	111 Aep Lane (Curtis Rd), Olive Hill, KY 41164	Route 986, Sawmill Hollow, Olive Hill	41.8	290	11/11/2017	435.0	561.6	1.999	2.828	UNKNOWN (NON WEATHER), EQUIPMENT FAILURE, TREE OUT OF ROW, ABNORMAL FEED, SCHEDULED COMPANY, WEATHER - LIGHTNING, TREE REMOVAL (NON AEP), VEHICLE ACCIDENT (NON AEP)	25.00%, 21.88%, 15.63%, 12.50%, 12.50%, 6.25%, 3.13%, 3.13%	Project to build better tie line scheduled for 2021	Tree Out of ROW outages accounted for 48% of the total SAIDI and 26% of the total SAIFI. One Unknown (Non Weather) outage on the Transmission Line accounted for 3% of the total SAIDI and 31% of the total SAIFI.

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										Circuit 5 Year Avg SAIDI	Reporting Year SAIDI	Circuit 5 Year Avg SAIFI	Reporting Year SAIFI	Outage Causes	% of Outages Due to Causes Listed in Previous Column		
60	HAZARD	3314402	MAYKING	MILLSTONE	HWY 119, Mayking	Mayking, Thornton	53.46	927	12/15/2015	518.1	553.3	1.988	1.851	SCHEDULED COMPANY, TREE OUT OF ROW, UNKNOWN (NON WEATHER), EQUIPMENT FAILURE, FACILITATION OF WORK, TREE INSIDE ROW, WEATHER - UNKNOWN, WEATHER - FLOOD/SLIDE, WEATHER - LIGHTNING, CUST. EQUIPMENT > 1 CUSTOMER, FIRE - AEP, OR AFFECTING > 1 CUSTOMER, VINE	25.88%, 24.71%, 16.47%, 12.94%, 5.88%, 4.71%, 3.53%, 1.18%, 1.18%, 1.18%, 1.18%, 1.18%	No further actions planned for 2020.	Tree Out of Row outages accounted for 75.45% of the total SAIDI and 62.48% of the total SAIFI.
61	ASHLAND	3002106	10TH STREET	FRONT STREET	Greenup Ave and 10th St, Ashland	Front St and W. Greenup Ave, Ashland Town Center Mall, Ashland	3.92	102	5/4/2019	216.7	550.3	1.528	3.255	EQUIPMENT FAILURE, WEATHER - UNKNOWN, UNKNOWN (NON WEATHER)	60.00%, 20.00%, 20.00%	Project to rebuild mainline scheduled towards end of 2020	Two Equipment Failure outages due to failed hot taps accounted for 70% of the total SAIDI and 60% of the total SAIFI.
62	HAZARD	3420001	SOFT SHELL	VEST	Raymond Smith Dr, Leburn	Soft Shell, Vest, Tina	55.55	524	4/6/2016	466.6	543.3	2.242	2.865	SCHEDULED COMPANY, TREE OUT OF ROW, EQUIPMENT FAILURE, UNKNOWN (NON WEATHER), FACILITATION OF WORK, ERROR - FIELD, TREE INSIDE ROW, FIRE - AEP, OR AFFECTING > 1 CUSTOMER, WEATHER - LIGHTNING, VEHICLE ACCIDENT (NON AEP)	34.69%, 20.41%, 14.29%, 8.16%, 8.16%, 4.08%, 4.08%, 2.04%, 2.04%, 2.04%	No further actions planned for 2020.	Tree Out of Row outages accounted for 43.89% of the total SAIDI and 45.70% of the total SAIFI.
63	HAZARD	3401301	FLEMING	NEON	SR 343, Fleming Rd, off Arlie Hall Dr	SR 343, Fleming Rd, SR 317, Fleming Neon	20.25	702	11/12/2016	440.4	539.2	1.766	2.818	SCHEDULED COMPANY, TREE OUT OF ROW, UNKNOWN (NON WEATHER), VINE, WEATHER - UNKNOWN, WEATHER - FLOOD/SLIDE, EQUIPMENT FAILURE, FIRE - AEP, OR AFFECTING > 1 CUSTOMER, VEHICLE ACCIDENT (NON AEP)	34.78%, 21.74%, 17.39%, 4.35%, 4.35%, 4.35%, 4.35%, 4.35%	No further actions planned for 2020.	Scheduled outages accounted for 67.20% of the total SAIDI and 77.91% of the total SAIFI.
64	PIKEVILLE	3403001	PIKEVILLE	CITY	144 Williams Drive, Pikeville, KY 41501	Northmonte Woods, N Bypass Rd, Town Mountain Rd and Chloe Rd	33.08	1,208	3/19/2016	389.8	539.1	2.460	4.629	SCHEDULED COMPANY, EQUIPMENT FAILURE, TREE OUT OF ROW, UNKNOWN (NON WEATHER), WEATHER - UNKNOWN, OTHER, VEHICLE ACCIDENT (NON AEP), FACILITATION OF WORK, TREE INSIDE ROW, SCHEDULED OUTSIDE REQUEST > 1 CUSTOMER	29.09%, 29.09%, 12.73%, 10.91%, 5.45%, 3.64%, 3.64%, 1.82%, 1.82%, 1.82%	R/W on 2020 Work Plan	Two Equipment Failure(Feeder Breaker) outages accounted for 30.28% of total SAIDI and 23.32% of total SAIFI.
65	HAZARD	3311102	STINNETT	BEECH FORK	Greasy Creek Road, Stinnett	Beech Fork	29.87	3	12/17/2016	391.75	520.7	1.500	1.333	TREE OUT OF ROW, FACILITATION OF WORK	50.00%, 50.00%	No further actions planned for 2020.	Tree Out of Row outages accounted for 84.89% of the total SAIDI and 50% of the total SAIFI.
66	HAZARD	3300601	BLUEGRASS	WALKERTOWN	Messer Branch, Hazard	City of Hazard, Walkertown, Wabaco	28.84	1,201	6/30/2016	467.64199	510.6	3.038	4.036	SCHEDULED COMPANY, UNKNOWN (NON WEATHER), TREE OUT OF ROW, EQUIPMENT FAILURE, VINE, WEATHER - UNKNOWN, ANIMAL NON BIRD, WEATHER - HIGH WINDS (EXCEEDING 60 MPH), CUST. EQUIPMENT > 1 CUSTOMER, TREE REMOVAL (NON AEP), OTHER, TREE INSIDE ROW	42.59%, 14.81%, 12.96%, 7.41%, 5.56%, 3.7%, 3.7%, 1.85%, 1.85%, 1.85%, 1.85%	No further actions planned for 2020.	Scheduled outages accounted for 45.41% of the total SAIDI and 18.27% of the total SAIFI.
67	PIKEVILLE	3414901	FISHTRAP	DISTRIBUTION	Left Fork Island Creek, Phyllis	Phyllis	4.5	3	1/28/2017	310.36842	499.3	1.474	1.000	UNKNOWN (NON WEATHER), CUST. EQUIPMENT > 1 CUSTOMER	50.00%, 50.00%	No further actions planned for 2020.	One Unknown (Non Weather) outage accounted for 68.76% of total SAIDI and 66.67% of total SAIFI. One Customer Equipment > 1 Customer outage accounted for 31.24% of total SAIDI and 33.33% of total SAIFI.

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										Circuit 5 Year Avg SAIDI	Reporting Year SAIDI	Circuit 5 Year Avg SAIFI	Reporting Year SAIFI	Outage Causes	% of Outages Due to Causes Listed in Previous Column		
68	HAZARD	3308404	BECKHAM	PIPPA PASSES	Rt 899, Beckham	Hollybush, Mallie, Pippa Passes, Pine Top	56.41	1,042	7/31/2019	394.94148	491.7	2.608	2.250	SCHEDULED COMPANY, EQUIPMENT FAILURE, TREE OUT OF ROW, UNKNOWN (NON WEATHER), TREE INSIDE ROW, ANIMAL - NON BIRD, VINE, TREE REMOVAL (NON AEP), FOREIGN OBJECT (NON ANIMAL), WEATHER - UNKNOWN, WEATHER - FLOOD/SLIDE, CUST. EQUIPMENT > 1 CUSTOMER, VEHICLE ACCIDENT (NON AEP), OTHER	30.88%, 22.06%, 13.24%, 11.76%, 4.41%, 2.94%, 2.94%, 2.94%, 1.47%, 1.47%, 1.47%, 1.47%	No further actions planned for 2020.	Scheduled outages accounted for 38.05% of the total SAIDI and 41.60% of the total SAIFI.
69	PIKEVILLE	3400101	ALLEN	DISTRIBUTION	401 Oklahoma Hollow, Allen, KY 41601	Allen City, New Allen, Ky Route 1428, Banner, US Highway 23S	27.61	785	2/13/2016	403.15795	485.3	2.224	2.121	SCHEDULED COMPANY, EQUIPMENT FAILURE, UNKNOWN (NON WEATHER), TREE OUT OF ROW, FACILITATION OF WORK, VANDALISM, WEATHER - UNKNOWN, VINE, FIRE - AEP, OR AFFECTING > 1 CUSTOMER, ANIMAL - NON BIRD, ANIMAL - BIRD	41.66%, 25.00%, 5.55%, 5.55%, 5.55%, 2.78%, 2.78%, 2.78%, 2.78%, 2.78%, 2.78%	Tree Clearing scheduled for 2020	One Equipment Failure outage accounted for 58% of the total SAIDI and 47% of the total SAIFI.
70	PIKEVILLE	3408103	SALISBURY	MARTIN	2241 Ky Rt 122, Printer, KY 41655	City of Martin, Alphoretta, Hite, Ky Route 80, Bucks Branch, Hite	46.21	1,065	5/17/2018	253.00552	472.2	1.795	3.582	TREE OUT OF ROW, EQUIPMENT FAILURE, SCHEDULED COMPANY, VINE, ANIMAL - NON BIRD, UNKNOWN (NON WEATHER), VEHICLE ACCIDENT (NON AEP), WEATHER - UNKNOWN	28.95%, 21.05%, 13.16%, 10.53%, 10.53%, 7.89%, 5.26%, 2.63%	No further actions planned for 2020.	One Tree Out of ROW outages accounted for 28% of the total SAIDI and 16% of the total SAIFI. One Scheduled Company outage accounted for 34% of SAIDI and 62% of SAIFI.
71	PIKEVILLE	3403302	PRESTONSBURG	UNIVERSITY	80 Josh Francis Drive, Prestonsburg, KY 41653	Cliff, US Highway 23S	19.01	792	9/30/2019	425.65705	471.0	2.310	1.259	SCHEDULED COMPANY, TREE OUT OF ROW, FACILITATION OF WORK, ANIMAL - NON BIRD, UNKNOWN (NON WEATHER), EQUIPMENT FAILURE, VINE, VEHICLE ACCIDENT (NON AEP), WEATHER - FLOOD/SLIDE, ANIMAL - BIRD, TREE INSIDE ROW	56.79%, 11.11%, 9.88%, 7.41%, 4.94%, 2.47%, 2.47%, 1.23%, 1.23%, 1.23%	No further actions planned for 2020.	One Weather-Flood/Slide outage accounted for 59% of the total SAIDI and 20% of the total SAIFI.
72	PIKEVILLE	3410501	SOUTH PIKEVILLE	PIKEVILLE	332 South Mayo Trail, Pikeville KY 41501	City of Pikeville	19.1	679	4/8/2017	335.20594	466.9	1.668	2.336	SCHEDULED COMPANY, EQUIPMENT FAILURE, UNKNOWN (NON WEATHER), VINE, TREE OUT OF ROW, WEATHER - UNKNOWN	28.57%, 21.43%, 14.29%, 14.29%, 14.29%, 7.14%	No further actions planned for 2020.	Two Equipment Failure outages accounted for 85.17% of total SAIDI and 80.53% of total SAIFI.
73	PIKEVILLE	3403003	PIKEVILLE	CEDAR CREEK	144 Williams Drive, Pikeville, KY 41501	City of Pikeville	16.62	550	11/25/2015	176.77928	463.5	1.520	6.945	SCHEDULED COMPANY, TREE OUT OF ROW, EQUIPMENT FAILURE, UNKNOWN (NON WEATHER), WEATHER - UNKNOWN, ANIMAL - NON BIRD, ANIMAL - BIRD, FOREIGN OBJECT (NON ANIMAL), OTHER	30.95%, 23.81%, 19.05%, 7.14%, 7.14%, 4.76%, 2.38%, 2.38%, 2.38%	Part of the circuit become part of the new Cedar Creek-Hoopwood Ckt. R/W on 2020 Work Plan	One Tree Out Of Row outages accounted for 29.35% of total SAIDI and 49.24% of total SAIFI.
74	ASHLAND	3001102	HOODSCREEK	RURAL	Rt 5 and Inheritance Dr, Ashland	W Rt 5 and Naples	55.22	739	6/10/2017	418.02118	453.2	2.296	1.574	SCHEDULED COMPANY, UNKNOWN (NON WEATHER), TREE OUT OF ROW, WEATHER - UNKNOWN, EQUIPMENT FAILURE, TREE INSIDE ROW, CUST. EQUIPMENT > 1 CUSTOMER, VEHICLE ACCIDENT (NON AEP), FIRE - AEP, OR AFFECTING > 1 CUSTOMER, ANIMAL - NON BIRD	30.00%, 28.00%, 14.00%, 8.00%, 8.00%, 4.00%, 2.00%, 2.00%, 2.00%, 2.00%	Increased Sectionalizing to reduce large zones	One Vehicle accident (non Aep) outage accounted for 76% of the total SAIDI and 63% of the total SAIFI. Only the SAIDI increased this year.
75	HAZARD	3301402	COMBS	AIRPORT GARDENS	Combs Road, Combs	Combs, Air Port Garden, Lotts Creek, Darfork	42.81	1,000	12/9/2017	337.80335	448.1	1.249	0.606	EQUIPMENT FAILURE, TREE OUT OF ROW, SCHEDULED COMPANY, VINE, UNKNOWN (NON WEATHER), WEATHER - LIGHTNING, TREE INSIDE ROW, VEHICLE ACCIDENT (NON AEP), ANIMAL - BIRD, OVERLOAD, ANIMAL - NON BIRD, FACILITATION OF WORK, OTHER UTILITY	21.62%, 16.22%, 13.51%, 10.81%, 10.81%, 5.41%, 5.41%, 2.70%, 2.70%, 2.70%, 2.70%, 2.70%	No further actions planned for 2020.	Tree Out of Row outages accounted for 89.63% of the total SAIDI and 55.65% of the total SAIFI.



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										Circuit 5 Year Avg SAIDI	Reporting Year SAIDI	Circuit 5 Year Avg SAIFI	Reporting Year SAIFI	Outage Causes	% of Outages Due to Causes Listed in Previous Column		
76	HAZARD	3309301	VICCO	REDFOX	Rowdy Hollow, Vicco	Sassafras, Big Branch, Hwy 15S	47.91	525	1/6/2015	418.03525	444.9	2.148	2.667	TREE OUT OF ROW, UNKNOWN (NON WEATHER), EQUIPMENT FAILURE, FACILITATION OF WORK, VINE, WEATHER - UNKNOWN, WEATHER - FLOOD/SLIDE, SCHEDULED COMPANY, ANIMAL - BIRD, TREE INSIDE ROW, CUST. EQUIPMENT > 1 CUSTOMER	27.03%, 18.92%, 10.81%, 8.11%, 5.41%, 5.41%, 5.41%, 5.41%, 5.41%, 5.41%, 2.70%	Trees crews are currently working on this circuit. As of 4/30/2020, over 21 miles of circuit has been cleared.	Weather - Flood/Slide outages accounted for 56.39% of the total SAIDI and 38.73% of the total SAIFI.
77	PIKEVILLE	3120101	STANVILLE	MUDCREEK	Williams Dr, Stanville, KY 41659	Big Mud Creek, Little Mud Creek, Prater Creek	85.18	1,679	3/18/2019	250.85074	442.7	1.385	2.630	TREE OUT OF ROW, SCHEDULED COMPANY, EQUIPMENT FAILURE, WEATHER - UNKNOWN, VINE, UNKNOWN (NON WEATHER), FACILITATION OF WORK, ANIMAL - NON BIRD, TREE INSIDE ROW, ANIMAL - BIRD, UG CONST. /DIG-INS (NON AEP)	18.46%, 18.46%, 12.31%, 12.31%, 10.77%, 9.23%, 6.15%, 4.62%, 4.62%, 1.54%, 1.54%	Disstrubution automation project scheduled to be completed in 2020.	Two Tree Out of ROW outages accounted for 60% of the total SAIDI and 51% of the total SAIFI.
78	PIKEVILLE	3402002	KEYSER	STONECOAL	3249 North Mayo Trail, Pikeville 41501	Coal Run Village	44.09	771	6/7/2018	303.39549	414.6	2.125	3.687	TREE OUT OF ROW, SCHEDULED COMPANY, UNKNOWN (NON WEATHER), EQUIPMENT FAILURE, WEATHER - UNKNOWN, VINE, VEHICLE ACCIDENT (NON AEP), WEATHER - HIGH WINDS (EXCEEDING 60 MPH), SCHEDULED OUTSIDE REQUEST > 1 CUSTOMER, ERROR - FIELD, ANIMAL - NON BIRD	31.43%, 14.29%, 14.29%, 14.29%, 8.57%, 2.86%, 2.86%, 2.86%, 2.86%, 2.86%, 2.86%	No further actions planned for 2020.	Two Tree Out Of Row outages accounted for 43.57% of total SAIDI and 30.29% of total SAIFI. One Vehicle Accident (Non AEP) outage accounted for 28.20% of total SAIDI and 43.44% of total SAIFI.
79	ASHLAND	3000304	BELLEFONT	ASHLAND TOWN CT	Off US 23 between SR 5 and A K Steel entrance, Russell	Armco Rd and Russell Rd (23)	4.39	264	11/14/2015	157.72782	410.6	0.891	2.602	EQUIPMENT FAILURE, VEHICLE ACCIDENT (NON AEP), SCHEDULED OUTSIDE REQUEST > 1 CUSTOMER	40.00%, 40.00%, 20.00%	Relocated pole where both vehicle accidents occurred.	Two Equipment Failure outages, due to bad cutouts accounted for 45% of the total SAIDI and 23% of the total SAIFI. Two Vehicle accident (non Aep) outages accounted for 34% of the total SAIDI and 42% of the total SAIFI.
80	PIKEVILLE	3401801	INDEX	DISTRIBUTION	6075 Liberty Rd., West Liberty, KY 26074	West Liberty, Harper Branch, Hwy 460E, May Branch, Elsie, Long Branch	55.99	625	8/26/2017	450.22826	402.1	1.883	2.966	TREE OUT OF ROW, EQUIPMENT FAILURE, FACILITATION OF WORK, SCHEDULED COMPANY, UNKNOWN (NON WEATHER), WEATHER - UNKNOWN, VANDALISM, TREE INSIDE ROW, ANIMAL - NON BIRD, OVERLOAD	22.22%, 22.22%, 14.81%, 14.81%, 7.41%, 3.70%, 3.70%, 3.70%, 3.70%, 3.70%	No further actions planned for 2020.	Two Tree Out of ROW outages accounted for 70% of the total SAIDI and 35% of the total SAIFI.
81	PIKEVILLE	3402202	MCKINNEY	GIBSON	36 Reed Ln., Grethel, KY 41619	McDowell, Sizemore Road, Frasure Creek	41.34	968	11/27/2019	251.70586	394.6	1.172	1.571	TREE OUT OF ROW, SCHEDULED COMPANY, UNKNOWN (NON WEATHER), EQUIPMENT FAILURE, WEATHER - FLOOD/SLIDE, FACILITATION OF WORK, WEATHER - UNKNOWN, VINE, SCHEDULED OUTSIDE REQUEST > 1 CUSTOMER, OTHER, VEHICLE ACCIDENT (NON AEP), VANDALISM, WEATHER - LIGHTNING, FIRE - AEP, OR AFFECTING > 1 CUSTOMER, ANIMAL - BIRD	32.84%, 14.93%, 11.94%, 11.94%, 4.48%, 4.48%, 2.99%, 2.99%, 2.99%, 1.49%, 1.49%, 1.49%, 1.49%	No further actions planned for 2020.	Tree Out of ROW outages accounted for 38% of the total SAIDI and 39% of the total SAIFI. Scheduled Company outages accounted for 35% of the total SAIDI and 41% of the total SAIFI.
82	ASHLAND	3002001	SOUTH SHORE	SILOAM	255 S M Roberson, South Shore, KY 41175	James Hannah, US 23 (Mark West)	47.13	1,010	6/28/2019	249.05206	379.4	1.721	2.756	TREE OUT OF ROW, SCHEDULED COMPANY, EQUIPMENT FAILURE, UNKNOWN (NON WEATHER), FACILITATION OF WORK, TREE REMOVAL (NON AEP), VEHICLE ACCIDENT (NON AEP), WEATHER - UNKNOWN, WEATHER - LIGHTNING, OTHER UTILITY, FIRE - AEP, OR AFFECTING > 1 CUSTOMER, TREE INSIDE ROW	27.27%, 23.64%, 14.55%, 10.91%, 5.45%, 3.64%, 3.64%, 3.64%, 1.82%, 1.82%, 1.82%, 1.82%	Project to build better tie line scheduled for 2021	One Equipment Failure outage due to a broken pole accounted for 45% of the total SAIDI and 36% of the total SAIFI. Tree Out of ROW outages accounted for 35% of the total SAIDI and 13% of the total SAIFI.
83	ASHLAND	3007905	BUSSEYVILLE	MATTIE	856 Isaac Park Road, Louisa, KY 41230	Rt 32, Adams, Louisa	103.32	705	3/25/2017	785.09014	372.9	2.259	2.464	SCHEDULED COMPANY, TREE OUT OF ROW, UNKNOWN (NON WEATHER), EQUIPMENT FAILURE, WEATHER - UNKNOWN, VINE, FACILITATION OF WORK, TREE INSIDE ROW	43.08%, 21.54%, 15.38%, 7.69%, 4.62%, 3.08%, 3.08%, 1.54%	DA went into effect Dec 2019.	Tree Out of ROW outages accounted for 84% of the total SAIDI and 46% of the total SAIFI. One Unknown (Non Weather) outage accounted for 9% of the total SAIDI and 32% of the total SAIFI.

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	District	Station/ Circuit Number	Station Name	Circuit Name	Station Location	Area Served	Circuit Length (Mi)	Number of Customers Served	Last Circuit R/W Trim Date Completed	Reliability Data For Reporting Year				Circuit Outage Causes for Report Year		List of Corrective Actions	Comments
										Circuit 5 Year Avg SAIDI	Reporting Year SAIDI	Circuit 5 Year Avg SAIFI	Reporting Year SAIFI	Outage Causes	% of Outages Due to Causes Listed in Previous Column		
84	PIKEVILLE	3410602	E.PRESTON	LANCER	2024 South Lake Drive, Prestonsburg, KY 41653	East Lake Drive, Lake Road, Corn Fork	24.92	954	4/16/2020	276.87565	358.9	1.647	2.274	SCHEDULED COMPANY, TREE OUT OF ROW, UNKNOWN (NON WEATHER), EQUIPMENT FAILURE, TREE INSIDE ROW, WEATHER - UNKNOWN, ANIMAL - NON BIRD, VINE, OTHER, ANIMAL BUS, WEATHER - FLOOD/SLIDE, VEHICLE ACCIDENT (NON AEP), FACILITATION OF WORK	25.00%, 14.29%, 10.71%, 10.71%, 8.93%, 7.14%, 7.14%, 5.36%, 3.57%, 1.79%, 1.79%, 1.79%, 1.79%	No further actions planned for 2020.	One Scheduled Company outage accounted for 28% of the total SAIDI and 23% of the total SAIFI. One Animal Bus outage accounted for 23% of the total SAIDI and 45% of the total SAIFI.
85	PIKEVILLE	3410502	S.PIKEVILLE	ISLAND CREEK	332 South Mayo Trail, Pikeville KY 41501	City of Pikeville	51.63	893	4/27/2019	457.22038	346.9	1.805	2.043	EQUIPMENT FAILURE, TREE OUT OF ROW, SCHEDULED COMPANY, WEATHER - UNKNOWN, UNKNOWN (NON WEATHER), OTHER, VEHICLE ACCIDENT (NON AEP), VANDALISM, VINE, SCHEDULED OUTSIDE REQUEST > 1 CUSTOMER, CUST. EQUIPMENT > 1 CUSTOMER, TREE INSIDE ROW	27.91%, 23.26%, 13.95%, 9.3%, 6.98%, 4.65%, 2.33%, 2.33%, 2.33%, 2.33%, 2.33%, 2.33%	Part of the circuit become part of the new Cedar Creek-Ivy Court Ckt	Three Tree Out Of Row outages accounted for 51.61% of total SAIDI and 77.23% of total SAIFI.
86	HAZARD	3420002	SOFT SHELL	LEBURN	Raymond Smith Dr, Leburn	Possum Trot Wiley Fork Upper Mill Cr	49.73	934	9/18/2015	309.10601	338.5	1.411	1.728	SCHEDULED COMPANY, TREE OUT OF ROW, EQUIPMENT FAILURE, FACILITATION OF WORK, UNKNOWN (NON WEATHER), WEATHER - UNKNOWN, VINE, TREE INSIDE ROW, ANIMAL - NON BIRD, WEATHER - HIGH WINDS (EXCEEDING 60 MPH)	37.04%, 22.22%, 9.26%, 9.26%, 5.56%, 5.56%, 3.70%, 3.70%, 1.85%, 1.85%	No further actions planned for 2020.	Tree Out of Row outages accounted for 70.79% of the total SAIDI and 74.60% of the total SAIFI.
87	HAZARD	3309101	WHITESBURG	WHITESBURG	SR 931, Whitesburg	City of Whitesburg	9.77	610	4/21/2017	114.72575	325.6	0.747	1.821	EQUIPMENT FAILURE, SCHEDULED COMPANY, UNKNOWN (NON WEATHER), TREE OUT OF ROW, VEHICLE ACCIDENT (NON AEP)	30.77%, 30.77%, 15.38%, 15.38%, 7.69%	No further actions planned for 2020.	Tree Out of Row outages accounted for 86.82% of the total SAIDI and 83.74% of the total SAIFI.
88	ASHLAND	3001402	LOUISA	HIGHBOTTOM	Town Hill Rd off Hwy 32, Louisa	Hwy 32 and along Lick Creek, Louisa	17.41	639	1/11/2020	195.59796	320.9	1.359	1.959	SCHEDULED COMPANY, UNKNOWN (NON WEATHER), EQUIPMENT FAILURE, VEHICLE ACCIDENT (NON AEP), CUST. EQUIPMENT > 1 CUSTOMER, TREE OUT OF ROW	47.06%, 17.65%, 17.65%, 5.88%, 5.88%, 5.88%	No further actions planned for 2020	Tree Out of ROW outages accounted for 35% of the total SAIDI and 21% of the total SAIFI. One Vehicle accident (non Aep) outage accounted for 23% of the total SAIDI and 16% of the total SAIFI.
89	ASHLAND	3004301	SILOAM	DISTRIBUTION	203 Dunaway Lane, South Shore, KY 41175	Siloam and Graf Brothers	21.4	434	9/6/2019	177.87323	313.4	1.395	1.788	EQUIPMENT FAILURE, UNKNOWN (NON WEATHER), TREE OUT OF ROW, SCHEDULED COMPANY, ANIMAL - BIRD, WEATHER - UNKNOWN, VEHICLE ACCIDENT (NON AEP)	35.29%, 17.65%, 17.65%, 11.76%, 5.88%, 5.88%, 5.88%	Project to build better tie line scheduled for 2021	One Tree Out of ROW outage accounted for 39% of the total SAIDI and 24% of the total SAIFI. One Equipment Failure outage due to failed cutout accounted for 38% of the total SAIDI and 56% of the total SAIFI.
90	ASHLAND	3008702	CANNONSBURG	ROUTE 3	16400 Ponderosa Dr., Catlettsburg, KY 41129	St Route 3, lake Bonita Rd, Alley Br, Catlettsurg	123.22	1,926	12/31/2018	248.8676	307.8	1.885	2.356	SCHEDULED COMPANY, UNKNOWN (NON WEATHER), EQUIPMENT FAILURE, TREE OUT OF ROW, WEATHER - UNKNOWN, WEATHER - LIGHTNING, FACILITATION OF WORK, VEHICLE ACCIDENT (NON AEP), VINE, FIRE - AEP, OR AFFECTING > 1 CUSTOMER, ERROR - FIELD, CUST. EQUIPMENT > 1 CUSTOMER	39.1%, 21.79%, 14.74%, 10.9%, 4.49%, 2.56%, 1.92%, 1.28%, 1.28%, 0.64%, 0.64%, 0.64%	Circuit targeted for Find and Fix 2020	Tree Out of ROW outages accounted for 46% of the total SAIDI and 33% of the total SAIFI. Equipment Failure outages mostly due to failed cutouts accounted for 27% of the total SAIDI and 31% of the total SAIFI.
91	HAZARD	3308002	JACKSON	PANBOWL	Cripple Creek Rd, Jackson	City of Jackson, Quicksand, Lick Branch	31.86	1,024	1/18/2020	254.7	287.4	1.521	0.897	SCHEDULED COMPANY, EQUIPMENT FAILURE, TREE OUT OF ROW, CUST. EQUIPMENT > 1 CUSTOMER, TREE INSIDE ROW, FOREIGN OBJECT (NON ANIMAL), CORROSION, ERROR - FIELD, FACILITATION OF WORK	38.24%, 20.59%, 17.65%, 5.88%, 5.88%, 2.94%, 2.94%, 2.94%, 2.94%	No further actions planned for 2020.	Scheduled outages accounted for 77.52% of the total SAIDI and 79.22% of the total SAIFI.
92	ASHLAND	3001004	HITCHINS	EK ROAD	3655 State Highway 773, Hitchins, KY 41146	N Hwy 773 and Ek Railroad, Hitchins/Grayson	37.98	527	3/9/2018	163.31461	271.5	1.061	2.311	SCHEDULED COMPANY, TREE OUT OF ROW, UNKNOWN (NON WEATHER), EQUIPMENT FAILURE, FACILITATION OF WORK, WEATHER - LIGHTNING, CUST. EQUIPMENT > 1 CUSTOMER	26.92%, 23.08%, 19.23%, 15.38%, 7.69%, 3.85%, 3.85%	No further actions planned for 2020	Tree Out of ROW outages accounted for 64% of the total SAIDI and 50% of the total SAIFI. One WEATHER - Lightning outage accounted for 31% of the total SAIDI and 47% of the total SAIFI.

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										Circuit 5 Year Avg SAIDI	Reporting Year SAIDI	Circuit 5 Year Avg SAIFI	Reporting Year SAIFI	Outage Causes	% of Outages Due to Causes Listed in Previous Column		
93	ASHLAND	3001204	HOWARDCOL	SUMMIT	3600 Floyd Street, Ashland, KY 41101	S Skyline Dr, Boy Scout Rd, and Us 60	32.25	714	3/30/2017	184.86785	260.9	1.292	2.326	TREE OUT OF ROW, EQUIPMENT FAILURE, UNKNOWN (NON WEATHER), SCHEDULED COMPANY, FACILITATION OF WORK, ANIMAL - NON BIRD, SCHEDULED OUTSIDE REQUEST > 1 CUSTOMER, TREE INSIDE ROW, TREE REMOVAL (NON AEP)	24.44%, 22.22%, 17.78%, 11.11%, 8.89%, 6.67%, 4.44%, 2.22%, 2.22%	No further actions planned for 2020	Tree Out of ROW outages accounted for 87% of the total SAIDI and 77% of the total SAIFI.
94	ASHLAND	3003703	COALTON	TRACE CREEK	2449 South Big Run Rd, Meads, KY 41101	Trace Road, Four Mile Rd, SR 3, SR 854, Rush	93.26	846	10/21/2017	439.62742	245.6	3.095	3.857	SCHEDULED COMPANY, EQUIPMENT FAILURE, TREE OUT OF ROW, UNKNOWN (NON WEATHER), WEATHER - UNKNOWN, VINE, VEHICLE ACCIDENT (NON AEP), ANIMAL - NON BIRD, FACILITATION OF WORK, ANIMAL - BIRD, SCHEDULED OUTSIDE REQUEST > 1 CUSTOMER	32.89%, 25.00%, 15.79%, 10.53%, 5.26%, 3.95%, 1.32%, 1.32%, 1.32%, 1.32%	No further actions planned for 2020	Tree Out of ROW outages accounted for 39% of the total SAIDI and 7% of the total SAIFI. One Equipment Failure outage due to the installation of a station mobile accounted for 4% of the total SAIDI and 25% of the total SAIFI. Only the SAIFI increased this year.
95	HAZARD	3309904	SLEMP	ROYAL DIAMOND	Rt 699, Slemo	Rt 463, Stony Fork Road	2.3	2	12/15/2015	156.46154	245.5	0.692	0.500	UNKNOWN (NON WEATHER)	100.00%	No further actions planned for 2020.	One Unknown (Non Weather) outage accounted for 100% of both the total SAIDI and total SAIFI.
96	ASHLAND	3001202	HOWARDCOL	29TH STREET	3600 Floyd Street, Ashland, KY 41101	29th St and Blackburn	19.81	1,267	4/21/2017	119.89363	244.6	0.992	1.979	SCHEDULED COMPANY, UNKNOWN (NON WEATHER), TREE OUT OF ROW, EQUIPMENT FAILURE, FACILITATION OF WORK, TREE INSIDE ROW, OTHER, ERROR - FIELD, WEATHER - LIGHTNING, OTHER UTILITY, WEATHER - UNKNOWN, SCHEDULED OUTSIDE REQUEST > 1 CUSTOMER	27.69%, 18.46%, 15.38%, 15.38%, 6.15%, 6.15%, 3.08%, 1.54%, 1.54%, 1.54%, 1.54%, 1.54%	No further actions planned for 2020	One Tree Out of ROW outage on the Transmission Line accounted for 36% of the total SAIDI and 50% of the total SAIFI. One Scheduled Company outage, (to safely replace a broken pole) accounted for 8% of the total SAIDI and 6% of the total SAIFI.
97	PIKEVILLE	3400701	DRAFFIN	BELCHER	235 Road Creek Road, Draffin, KY 41521	Regina Belcher Hwy, Russell Fork, Road Creek	25.75	388	12/31/2018	311.47419	215.4	2.635	4.503	EQUIPMENT FAILURE, SCHEDULED COMPANY, UNKNOWN (NON WEATHER), FACILITATION OF WORK, WEATHER - UNKNOWN, ANIMAL - BIRD, OTHER	27.27%, 22.73%, 18.18%, 13.64%, 9.09%, 4.55%, 4.55%	No further actions planned for 2020.	One Other outage accounted for 22.51% of total SAIDI and 21.98% of total SAIFI.
98	ASHLAND	3003702	COALTON	CANNONSBURG	2449 South Big Run Rd, Meads, KY 41101	US 60, Big Run, City of Cannonsburg	29.1	513	6/17/2017	220.44009	201.5	1.977	1.982	SCHEDULED COMPANY, UNKNOWN (NON WEATHER), EQUIPMENT FAILURE, TREE OUT OF ROW, FACILITATION OF WORK, WEATHER - LIGHTNING, VINE, WEATHER - UNKNOWN, CUST. EQUIPMENT > 1 CUSTOMER, ABNORMAL FEED, ANIMAL - NON BIRD, TREE REMOVAL (NON AEP)	43.59%, 17.95%, 12.82%, 6.41%, 5.13%, 3.85%, 2.56%, 2.56%, 1.28%, 1.28%, 1.28%, 1.28%	Part of this circuit was permanently transferred early 2020	Tree Out of ROW outages accounted for 25% of the total SAIDI and 5% of the total SAIFI. One Equipment Failure outage due to the installation of a station mobile accounted for 7% of the total SAIDI and 51% of the total SAIFI.
99	PIKEVILLE	3120102	STANVILLE	TRAM	Williams Dr, Stanville, KY 41659	Tram, Mare Creek, Ivy Creek	33.11	834	9/24/2016	97.568862	194.8	0.206	0.411	TREE OUT OF ROW, UNKNOWN (NON WEATHER), SCHEDULED COMPANY, TREE INSIDE ROW, EQUIPMENT FAILURE, FIRE - AEP, OR AFFECTING > 1 CUSTOMER, WEATHER - UNKNOWN, VINE	25.00%, 21.43%, 17.86%, 17.86%, 7.14%, 3.57%, 3.57%, 3.57%	No further actions planned for 2020.	Tree Out of ROW outages accounted for 73% of the total SAIDI and 61% of the total SAIFI. One Tree In ROW outage accounted for 10% of total SAIDI and 22% of total SAIFI.
100	ASHLAND	3002107	10TH STREET	WEST CENTRAL	Greenup Ave and 10th St, Ashland	S 6th St, Roberts Drive, and Blackburn, Ashland	23.14	1,307	3/30/2019	131.6	187.9	0.986	1.854	TREE OUT OF ROW, UNKNOWN (NON WEATHER), SCHEDULED COMPANY, EQUIPMENT FAILURE, WEATHER - UNKNOWN, VEHICLE ACCIDENT (NON AEP), TREE INSIDE ROW, CUST. EQUIPMENT > 1 CUSTOMER, WEATHER - LIGHTNING	25.00%, 20.45%, 18.18%, 11.36%, 9.09%, 4.54%, 4.54%, 4.54%, 2.27%	No further actions planned for 2020	One Scheduled Company outage (to replace poles) accounted for 47% of the total SAIDI and 12% of the total SAIFI. Tree Out of ROW outages accounted for 28% of the total SAIDI and 58% of the total SAIFI.
101	HAZARD	3308001	JACKSON	SOUTH JACKSON	Town Hill Rd.	City of Jackson	26.74	934	1/18/2020	128.66179	177.3	0.933	1.540	SCHEDULED COMPANY, EQUIPMENT FAILURE, TREE OUT OF ROW, WEATHER - UNKNOWN, VINE, FIRE - AEP, OR AFFECTING > 1 CUSTOMER, UNKNOWN (NON WEATHER), FIRE-AEP, OR AFFECTING > 1 CUSTOMER, VANDALISM, VEHICLE ACCIDENT (NON AEP), FACILITATION OF WORK, ERROR - FIELD, ANIMAL - BIRD, TREE INSIDE ROW	40%, 11.11%, 11.11%, 11.11%, 4.44%, 4.44%, 2.22%, 2.22%, 2.22%, 2.22%, 2.22%, 2.22%, 2.22%	No further actions planned for 2020.	Equipment failure outages accounted for 62.85% of the total SAIDI and 72.46% of the total SAIFI.

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										Circuit 5 Year Avg SAIDI	Reporting Year SAIDI	Circuit 5 Year Avg SAIFI	Reporting Year SAIFI	Outage Causes	% of Outages Due to Causes Listed in Previous Column		
102	ASHLAND	3000903	HIGHLAND	WURTLAND	437.5 Greenup Avenue, Raceland, KY 41169	Wurtland Ave and Riverside	19.98	589	5/30/2020*	105.19548	173.3	0.767	0.608	UNKNOWN (NON WEATHER), SCHEDULED COMPANY, TREE OUT OF ROW, EQUIPMENT FAILURE, TREE INSIDE ROW, FIRE - AEP, OR AFFECTING > 1 CUSTOMER, VINE, FACILITATION OF WORK	41.67%, 16.67%, 12.50%, 8.33%, 8.33%, 4.17%, 4.17%, 4.17%	Tree clearing scheduled for 2020	One Equipment Failure outage during a major event, due to a bad cutout accounted for 59% of the total SAIDI and 36% of the total SAIFI. Only the SAIDI increased this year.
103	ASHLAND	3002105	10TH STREET	MIDTOWN	Greenup Ave and 10th St, Ashland	Winchester and Greenup Ave, Downtown Ashland	10.67	542	5/4/2019	63.5054	171.3	0.294	0.758	SCHEDULED COMPANY, EQUIPMENT FAILURE, UNKNOWN (NON WEATHER), FIRE - AEP, OR AFFECTING > 1 CUSTOMER, OTHER UTILITY	40.00%, 30.00%, 10.00%, 10.00%, 10.00%	No further actions planned for 2020	One Scheduled Company outage (to reconductor) accounted for 55% of the total SAIDI and 28% of the total SAIFI. One FIRE - AEP, OR AFFECTING > 1 CUSTOMER accounted for 11% of the total SAIDI and 30% of the total SAIFI.
104	ASHLAND	3103101	OLIVEHILL	GLOBE	111 Aep Lane (Curtis Rd), Olive Hill, KY 41164	W US 60 and Smith Run, Globe	135.57	1,250	4/18/2020	536.9856	164.6	2.184	3.846	SCHEDULED COMPANY, UNKNOWN (NON WEATHER), EQUIPMENT FAILURE, TREE OUT OF ROW, VINE, WEATHER - UNKNOWN, WEATHER - LIGHTNING, CUST. EQUIPMENT > 1 CUSTOMER, ANIMAL - NON BIRD, ERROR - FIELD, ANIMAL - BIRD, FACILITATION OF WORK	27.78%, 23.33%, 22.22%, 13.33%, 3.33%, 2.22%, 2.22%, 1.11%, 1.11%, 1.11%, 1.11%, 1.11%	Tree clearing completed in 2020. Project to build better tie line scheduled for 2022	Tree Out of ROW outages accounted for 54% of the total SAIDI and 16% of the total SAIFI. One Unknown (Non Weather) outage on the Transmission Line accounted for 9% of the total SAIDI and 26% of the total SAIFI.
105	ASHLAND	3001203	HOWARDCOL	FLOYD STREET	3600 Floyd Street, Ashland, KY 41101	Crooks and Moore St	18.64	1,406	5/30/2020*	108.71977	155.7	0.950	1.678	EQUIPMENT FAILURE, TREE OUT OF ROW, UNKNOWN (NON WEATHER), SCHEDULED COMPANY, TREE INSIDE ROW, OTHER, VINE, FACILITATION OF WORK, WEATHER - UNKNOWN, UNBALANCE	29.55%, 18.18%, 13.64%, 9.09%, 9.09%, 6.82%, 4.55%, 4.55%, 2.27%, 2.27%	Tree clearing completed in 2020	One Tree Out of ROW outage on the Transmission Line accounted for 54% of the total SAIDI and 60% of the total SAIFI. One Equipment Failure outage, (to safely replace a broken pole) accounted for 10% of the total SAIDI and 4% of the total SAIFI.
106	ASHLAND	3001001	HITCHINS	DENTON	3655 State Highway 773, Hitchins, KY 41146	E Hwy 773, Glancy Fork, Hitchins	51.79	410	8/19/2017	196.79981	149.5	0.877	0.895	UNKNOWN (NON WEATHER), TREE OUT OF ROW, EQUIPMENT FAILURE, SCHEDULED COMPANY, WEATHER - LIGHTNING, WEATHER - UNKNOWN, FACILITATION OF WORK, ANIMAL - BIRD	40.00%, 22.50%, 17.50%, 7.50%, 5.00%, 2.50%, 2.50%, 2.50%	No further actions planned for 2020	Tree Out of ROW outages accounted for 45% of the total SAIDI and 26% of the total SAIFI. One Equipment Failure outage due to a bad cutout accounted for 17% of the total SAIDI and 23% of the total SAIFI.
107	ASHLAND	3110902	WURTLAND	GREENUP	50 Wurtland Avenue, Wurtland, KY 41144	Industrial Parkway and Rt 1	63.52	1,299	12/31/2018	161.51186	136.7	1.879	3.192	UNKNOWN (NON WEATHER), SCHEDULED COMPANY, EQUIPMENT FAILURE, TREE OUT OF ROW, ANIMAL - BIRD, FACILITATION OF WORK, WEATHER - LIGHTNING, CUST. EQUIPMENT > 1 CUSTOMER, VEHICLE ACCIDENT (NON AEP), FIRE - AEP, OR AFFECTING > 1 CUSTOMER, TREE REMOVAL (NON AEP)	28.33%, 21.67%, 15.00%, 15.00%, 5.00%, 5.00%, 3.33%, 1.67%, 1.67%, 1.67%, 1.67%	No further actions planned for 2020	One Equipment Failure outage due to a failed insulator in the station zone accounted for 24% of the total SAIDI and 29% of the total SAIFI. One Animal - Bird outage accounted for 20% of the total SAIDI and 30% of the total SAIFI.
108	PIKEVILLE	3120103	STANVILLE	HAROLD	Williams Dr, Stanville, KY 41659	Harold, Hurricane Creek, Pike Floyd Hollow	56.77	1,626	10/27/2018	103.55901	121.9	0.377	0.514	TREE OUT OF ROW, EQUIPMENT FAILURE, UNKNOWN (NON WEATHER), SCHEDULED COMPANY, WEATHER - UNKNOWN, VINE, ANIMAL - NON BIRD, OTHER, TREE INSIDE ROW, ANIMAL - BIRD, FOREIGN OBJECT (NON ANIMAL), OVERLOAD, CUST. EQUIPMENT > 1 CUSTOMER, FACILITATION OF WORK	26.15%, 20.00%, 10.77%, 10.77%, 7.69%, 4.62%, 4.62%, 4.62%, 3.08%, 1.54%, 1.54%, 1.54%, 1.54%, 1.54%	No further actions planned for 2020.	Two Tree Out of ROW outages accounted for 33% of the total SAIDI and 36% of the total SAIFI.
109	ASHLAND	3008002	47TH STREET	39TH STREET	US 23 and 47th St, Catlettsburg	39th st and Belmont, Ashland	20.51	1,134	8/20/2016	88.053223	113.4	0.708	0.706	EQUIPMENT FAILURE, UNKNOWN (NON WEATHER), SCHEDULED COMPANY, TREE OUT OF ROW, FACILITATION OF WORK, VEHICLE ACCIDENT (NON AEP), TREE INSIDE ROW, WEATHER - UNKNOWN	27.50%, 27.50%, 15.00%, 10.00%, 7.50%, 5.00%, 5.00%, 2.50%	No further actions planned for 2020	One Vehicle accident (non Aep) outage accounted for 39% of the total SAIDI and 33% of the total SAIFI. One Scheduled Company outage (to replace poles) accounted for 5% of the total SAIDI and 20% of the total SAIFI.
110	ASHLAND	3116702	BELHAVEN STATION	INDIAN RUN	260 Thompson Road, Russell, KY 41169	Reed St and Route 207, Flatwoods	24.97	1,035	9/10/2016	65.59422	99.7	0.533	0.512	SCHEDULED COMPANY, EQUIPMENT FAILURE, TREE OUT OF ROW, UNKNOWN (NON WEATHER), ERROR - FIELD, FACILITATION OF WORK	27.27%, 27.27%, 24.24%, 15.15%, 3.03%, 3.03%	Tree clearing scheduled for 2020	Tree Out of ROW outages accounted for 68% of the total SAIDI and 50% of the total SAIFI. One Unknown (Non Weather) outage accounted for 12% of the total SAIDI and 17% of the total SAIFI.
111	ASHLAND	3116703	BELHAVEN STATION	ARGILLITE ROAD	260 Thompson Road, Russell, KY 41169	Indian Run and Argillite Rd, Flatwoods	35.23	1,511	5/6/2017	80.315351	95.6	0.857	0.951	SCHEDULED COMPANY, EQUIPMENT FAILURE, UNKNOWN (NON WEATHER), TREE OUT OF ROW, VINE, WEATHER - UNKNOWN, FACILITATION OF WORK, VEHICLE ACCIDENT (NON AEP)	32.76%, 22.41%, 20.69%, 12.07%, 5.17%, 3.45%, 1.72%, 1.72%	Tree clearing scheduled for 2020	Tree Out of ROW outages accounted for 44% of the total SAIDI and 10% of the total SAIFI. One Equipment Failure outage due to a failed arrester accounted for 30% of the total SAIDI and 51% of the total SAIFI.

**Section 5 - Circuit Report**  
**Reporting Year : 2019**

	District	Station/ Circuit Number	Station Name	Circuit Name	Station Location	Area Served	Circuit Length (Mi)	Number of Customers Served	Last Circuit R/W Trim Date Completed	Reliability Data For Reporting Year				Circuit Outage Causes for Report Year		List of Corrective Actions	Comments
										Circuit 5 Year Avg SAIDI	Reporting Year SAIDI	Circuit 5 Year Avg SAIFI	Reporting Year SAIFI	Outage Causes	% of Outages Due to Causes Listed in Previous Column		
112	ASHLAND	3000301	BELLEFONT	WESTWOOD	Off US 23 between SR 5 and A K Steel entrance, Russell	Main St, Westwood Area, Ashland	34.76	1,594	8/20/2016	144.81944	81.0	0.586	0.617	SCHEDULED COMPANY, UNKNOWN (NON WEATHER), TREE OUT OF ROW, TREE INSIDE ROW, EQUIPMENT FAILURE, VINE, VEHICLE ACCIDENT (NON AEP), WEATHER - LIGHTNING, WEATHER - UNKNOWN, FIRE - AEP, OR AFFECTING > 1 CUSTOMER, TREE REMOVAL (NON AEP)	42.22%, 17.78%, 17.78%, 4.44%, 4.44%, 2.22%, 2.22%, 2.22%, 2.22%	No further actions planned for 2020	Tree Out of ROW outages accounted for 76% of the total SAIDI and 70% of the total SAIFI. Scheduled company outages accounted for 16% of the total SAIDI and 17% of the total SAIFI.
113	ASHLAND	3000302	BELLEFONT	FLATWOODS	Off US 23 between SR 5 and A K Steel entrance, Russell	Diedrich Blvd (Alt OLBH)	3.92	88	12/30/2015	79.527352	66.2	0.674	1.000	SCHEDULED COMPANY, UNKNOWN (NON WEATHER), EQUIPMENT FAILURE, WEATHER - LIGHTNING, ABNORMAL FEED, TREE OUT OF ROW	40.00%, 20.00%, 10.00%, 10.00%, 10.00%, 10.00%	No further actions planned for 2020	One WEATHER - Lightning outage accounted for 61% of the total SAIDI and 41% of the total SAIFI. Two UNKNOWN (NON WEATHER) outages accounted for 31% of the total SAIDI and 42% of the total SAIFI.
114	ASHLAND	3001401	LOUISA	CITY	Town Hill Rd off Hwy 32, Louisa	Town Hill Rd and N of Highway 3, Louisa	16.41	824	11/27/2019	50.051608	65.5	0.676	0.559	SCHEDULED COMPANY, UNKNOWN (NON WEATHER), FACILITATION OF WORK, EQUIPMENT FAILURE, VEHICLE ACCIDENT (NON AEP), VINE, TREE OUT OF ROW	42.11%, 21.05%, 10.53%, 10.53%, 5.26%, 5.26%, 5.26%	No further actions planned for 2020	One Tree Out of ROW outage accounted for 37% of the total SAIDI and 40% of the total SAIFI. One Scheduled Company outage, (to safely replace a broken pole) accounted for 48% of the total SAIDI and 34% of the total SAIFI.
115	PIKEVILLE	3403301	PRESTONSBURG	CITY	80 Josh Francis Drive, Prestonsburg, KY 41653	City of Prestonsburg	7.07	475	11/12/2016	53.764731	65.2	0.517	0.659	SCHEDULED COMPANY, TREE OUT OF ROW, EQUIPMENT FAILURE, WEATHER - UNKNOWN, ANIMAL - NON BIRD, FACILITATION OF WORK, VINE, VEHICLE ACCIDENT (NON AEP), TREE INSIDE ROW	64.29%, 11.90%, 4.76%, 4.76%, 4.76%, 2.38%, 2.38%, 2.38%, 2.38%	No further actions planned for 2020.	One Tree Out of ROW outage accounted for 44% of the total SAIDI and 39% of the total SAIFI.
116	ASHLAND	3000104	ASHLAND	3RD STREET	2431 Greenup Ave., Ashland, KY 41101	East Front St, Ashland	0.58	8	3/21/2020	11.666667	61.3	0.119	0.625	EQUIPMENT FAILURE	100.00%	No further actions planned for 2020	One Equipment Failure outage due to a broken clamp accounted for 100% of the total SAIDI and 100% of the total SAIFI.
117	ASHLAND	3002103	10TH STREET	12TH STREET	Greenup Ave and 10th St, Ashland	12th St, Oakview Rd and Pollard, Ashland	12.29	583	5/4/2019	43.742857	47.4	0.471	0.398	TREE OUT OF ROW, UNKNOWN (NON WEATHER), SCHEDULED COMPANY, TREE INSIDE ROW, FACILITATION OF WORK, FIRE - AEP, OR AFFECTING > 1 CUSTOMER	26.66%, 20.00%, 20.00%, 13.33%, 13.33%, 6.66%	No further actions planned for 2020	One Scheduled Company outage, (to safely replace a pole) accounted for 24% of the total SAIDI and 24% of the total SAIFI. One Unknown (Non Weather) outage accounted for 16% of the total SAIDI and 25% of the total SAIFI.
118	ASHLAND	3000101	ASHLAND	25TH STREET	2431 Greenup Ave., Ashland, KY 41101	25th St and King's Daughters Hosp.	2.2	112	3/21/2020	24.103509	45.5	0.135	0.125	EQUIPMENT FAILURE, VANDALISM, TREE OUT OF ROW	33.33%, 33.33%, 33.33%	No further actions planned for 2020	One Tree Out of ROW outage accounted for 91% of the total SAIDI and 43% of the total SAIFI. Only the SAIDI increased this year.
119	PIKEVILLE	3403002	PIKEVILLE	MAIN STREET	144 Williams Drive, Pikeville, KY 41501	City of Pikeville	23.9	747	6/27/2019	100.0469	34.3	1.063	1.304	TREE OUT OF ROW, EQUIPMENT FAILURE, WEATHER - UNKNOWN, TREE REMOVAL (NON AEP), UNKNOWN (NON WEATHER), OTHER, CUST. EQUIPMENT > 1 CUSTOMER, SCHEDULED COMPANY	27.27%, 18.18%, 9.09%, 9.09%, 9.09%, 9.09%, 9.09%, 9.09%	No further actions planned for 2020.	One Tree Out Of Row outages accounted for 30.11% of total SAIDI and 8.44% of total SAIFI. Two Equipment Failure outages accounted for 35.14% of total SAIDI and 76.80% of total SAIFI.
120	ASHLAND	3000105	ASHLAND	1ST STREET	2431 Greenup Ave., Ashland, KY 41101	East Front St, Ashland	3.35	125	3/21/2020	45.530885	14.0	0.104	0.160	SCHEDULED COMPANY, EQUIPMENT FAILURE	50.00%, 50.00%	No further actions planned for 2020	One Scheduled Company outage (Pole Replacement) accounted for 93% of the total SAIDI and 95% of the total SAIFI.
121	ASHLAND	3002101	10TH STREET	6TH STREET	Greenup Ave and 10th St, Ashland	8th St and Ashland Town Mall	1.76	93	5/4/2019	8.8565217	10.2	0.128	0.043	SCHEDULED COMPANY, FACILITATION OF WORK	50.00%, 50.00%	No further actions planned for 2020	One Facilitation of Work outage accounted for 75% of the total SAIDI and 75% of the total SAIFI. Only the SAIDI increased this year.