

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION



Completed Task 2 work
on Greysbranch -
Greysbranch Circuit in
Greenup County

2016 DISTRIBUTION VEGETATION MANAGEMENT
REPORT OF KENTUCKY POWER COMPANY
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

April 3, 2017

In accordance with the Public Service Commission's Order dated June 22, 2015 in Case No. 2014-00396, Kentucky Power provides the following report regarding its Vegetation Management Program for the 2016 calendar year:

INTRODUCTION

The Commission's June 22, 2015 Order in Case No. 2014-00396 approved, with certain modifications unrelated to this report, the Settlement Agreement among Kentucky Power Company, Kentucky Industrial Utility Customers, Inc., and the Kentucky School Boards Association ("Settlement Agreement"). Paragraph 8 of the Settlement Agreement modified the Company's existing Vegetation Management Program. As approved by the Commission the Vegetation Management Program:

- Extended the period to perform the initial re-clearing of the Company's distribution right-of-way through 2018 ("Task 1");
- Implemented an interim program for the re-clearing of those portions of the Company's distribution right-of-way that were initially re-cleared beginning July 2010 ("Task 2"). The Settlement Agreement projects Task 2 will be completed by June 30, 2019;
- Provided for the initiation of a five-year cycle for Vegetation Management Program maintenance re-clearing ("Task 3") beginning July 1, 2019;
- Maintained the Task 1 operation and maintenance ("O&M") approved by the Commission in Case No. 2009-00459;
- Provided an additional \$10,655,900 in revenue to fund the Task 2-related O&M activities required under the Settlement Agreement.
- Provided modified total spending requirements for the years 2015-2023. These requirements will decrease beginning in 2019 with the completion of Task 1 and Task 2 and the initiation of Task 3;
- Provided an \$11,780,408 reduction of annual base rates beginning July 1, 2019 for those customer classes funding the Vegetation Management Program;
- Established a one-way balancing account to track annual deviations from the \$27,661,060 in total program expenditures included in annual base rates beginning July 1, 2015; and

- Required the Company to obtain Commission approval before deviating on either a Company or a district basis by more than 10% from the budgeted (September 30) expenditure levels.

2016 VEGETATION MANAGEMENT PLAN AND UPDATED FORECASTS

Kentucky Power filed its 2016 Vegetation Management Plan on September 29, 2015. The 2016 Vegetation Management Plan projected the Company would complete 986 miles of Task 1 work at a total O&M cost of \$17,237,965 and capital funding of \$1,195,108. The plan projected Kentucky Power would complete 771 miles of Task 2 work at an O&M cost of \$10,423,095 and \$327,217 in capital funding.¹

In connection with its 2015 Vegetation Management Report, filed March 31, 2016, Kentucky Power updated its forecast of Task 1 work to be completed in 2016. Task 1 work was increased from 986 miles to 1,200 miles. Task 2 work remained unchanged at 771 miles.

The 2015 Report also indicated that total Task 1 and Task 2 O&M forecasted expenditures were projected to increase from \$27,661,060 to \$27,664,598. The 2015 Report indicated that Task 1 and Task 2 forestry capital funding would be increased to \$2,089,725.²

AUTHORITY TO DEVIATE FROM 2016 VEGETATION MANAGEMENT PLAN

The Company on April 13, 2016 filed its application seeking leave to deviate by more than 10% from its 2016 budgeted expenditure levels for the Pikeville and Hazard districts.³ In its request, the Company sought to increase the 2016 budgeted Pikeville district expenditures by 22.82% and to reduce the Hazard district's 2016 budgeted expenditures by 11.1%. The purpose of the deviations was to permit Kentucky Power to complete Task 1 work in each district at approximately the same time.

The Commission granted the Company's application by order entered August 11, 2016.

¹ Task 1 and Task 2 total capital funding was \$1,522,325.

² The total 2016 forestry capital budget for 2016, including projected forestry capital expenditures unrelated to Task 1 and Task 2 work, was \$2,433,956.

³ *In the Matter of: Application Of Kentucky Power Company For Authority To Deviate From The Ten Percent Limitation On Variations In Vegetation Management Expenditures*, Case No. 2016-00143.

2016 EXPENDITURES AND RIGHT-OF-WAY CLEARED

A. 2016 Distribution Vegetation Management Expenditures

Total 2016 O&M expenditures for the Vegetation Management program were \$27,774,545. 2016 O&M total expenditures exceeded the 2016 Plan expenditure target, filed September 29, 2015, by \$113,485 (0.41%), and the revised goal, filed March 31, 2016, by \$109,947 (0.4%).

Actual 2016 Task 1 O&M expenditures were \$17,492,806. The actual Task 1 O&M expenditures exceeded the September 29, 2015 forecast by \$254,841 (1.48%).

2016 Task 2 O&M expenditures totaled \$10,281,740 and were \$144,893 (1.39%) below budget).

The Capital Plan for Task 1 and Task 2 as filed was \$1,522,325. The actual 2016 forestry capital funding for Task 1 and Task 2 was \$2,664,901. This exceeded the projected Capital Plan for Task 1 and Task 2 by \$1,142,576 or 75%. Total forestry capital funding for calendar year 2016 was \$3,718,526. All additional capital funds were used to remove trees larger than 18 inches in diameter, to widen rights-of-way, and for tree growth regulator applications (soil injections).

B. 2016 Vegetation Management Mileage Cleared

Kentucky Power's 2016 Plan, filed September 29, 2015, projected the completion of 986 miles of Task 1 work and 771 miles of Task 2 work during 2016. The plan also projected the Company would spray 2,500 acres to control vegetation. Spraying limits vegetation growth between trim cycles.

As part of its 2015 Vegetation Management Report filed March 31, 2016 Kentucky Power increased its projected 2016 Task 1 work by 21.7% to 1,200 miles. Projected Task 2 work and spraying remained unchanged.

Table 1 below compares the 2016 work completed to the projections contained in its 2016 Plan and the March 31, 2016 update:

Table 1: 2016 Work Plan Comparison to Actual Plan Completion					
Work	2016 Plan	March 31, 2016 Update	Work Completed in 2016	Difference between Actual vs 2016 Plan	Difference between Actual and March 31, 2016 Update
Task 1 Miles	986	1,200	1,094	108	-106
% Completed	-	-	-	111.0%	91.2%
Task 2 Miles	771	771	711	-60	-60
% Completed	-	-	-	92.2%	92.2%
Acres Sprayed	2,500	2,500	3,780	1,280	1,280
% Completed	-	-	-	151.2%	151.2%

Three factors contributed to the variations between revised projected miles cleared and actual miles cleared:

- Travel time for the crews shifted from the Hazard district to Pikeville district was greater than anticipated thereby reducing the amount of time crews were engaged in vegetation maintenance in the Pikeville district.
- The scope of Task 2 work was expanded to remove additional overhanging limbs. The additional work removed limbs from both within and outside of the right-of-way.
- Additional resources (\$2,215,040 instead of the budgeted \$1,200,000) were directed to spraying.

As of December 31, 2016 Kentucky Power completed approximately 83% of the Task 1 work since Task 1 work began in June 29, 2010. This compares to 70% of the Task 1 work completed as of December 31, 2015. Kentucky Power is on schedule to complete Task 1 work by December 31, 2018. At December 31, 2016, the Company was 108 miles ahead of the clearance pace required to complete the Task 1 work by December 31, 2018.

As of December 31, 2016 Kentucky Power had completed approximately 100% of the forecasted Task 2 work to date. This compares to 117% of the forecasted Task 2 work completed as of December 31, 2015. Kentucky Power is on schedule to complete Task 2 work by July 1, 2019.

Since the Company's Vegetation Management program began, Kentucky Power has trimmed 507,259 trees, cleared 14,847 acres of brush, sprayed 16,447 acres to control vegetation, and removed 1,508,893 trees.

C. 2016 Distribution Vegetation Management Work by District

Table 2 below compares the Company's 2016 District O&M expenditures to the projected expenditure levels approved by the Commission in its August 11, 2016 Order in Case No. 2016-00143 approving the Company's application for a deviation from the 2016 Plan filed September 29, 2015.

Table 2: 2016 District O&M Expenditures vs Projected Budgeted Expenditures				
Nature of Expense	Ashland	Hazard	Pikeville	Kentucky Total
Task 1	\$4,729,054.27	\$2,994,719.02	\$9,365,556.68	\$17,089,329.96
Task 2	\$4,139,229.85	\$1,942,600.47	\$3,897,308.96	\$9,979,139.28
Internal Labor Task 1	\$131,799.91	\$133,355.52	\$138,320.52	\$403,475.95
Internal Labor Task 2	\$89,872.45	\$93,248.66	\$119,479.18	\$302,600.29
Total	\$9,089,956.48	\$5,163,923.67	\$13,520,665.34	\$27,774,545.48
Budget	\$8,264,806.00	\$5,268,130.00	\$14,131,662.00	\$27,664,598.00
% Spend per District	109.984%	98.022%	95.676%	100.397%

Table 3 below provides the 2016 Task 1 and Task 2 work performed by district and estimated work remaining.

Table 3: 2016 Actual District Mileage Performed and Remaining Initial Re-clear Mileage				
Work Task	Ashland	Hazard	Pikeville	Kentucky Total
Task 1	306.4	204.9	583.0	1094.3
Task 2	229.0	202.4	280.0	711.4
Total Re-clear Miles	535.4	407.3	863.0	1805.7
Acres Sprayed	680.1	1174.6	1925.5	3780.2
Remaining Initial Re-clear Mileage	631.0	329.2	499.8	1460.0

Attachment 1 to this report details the Task 1 Vegetation Management work and expenditures by circuit. Attachment 2 similarly reports the 2016 Task 2 Vegetation Management work and expenditures by circuit. Both attachments provide the number of miles of circuit

completed for each task, acres of brush cut, acres of brush sprayed, amount of tree growth regulator (soil injection) applied, number of trees removed, and number of trees trimmed.

Consistent with past filings, O&M and capital expenditures are not separately accounted for on a circuit-by-circuit basis. The costs in Attachment 1 (Task 1) and 2 (Task 2) represent the total O&M and Capital expenditures for each circuit. Also unallocated on a circuit-by-circuit basis are Internal Labor & Fleet, unscheduled hotspot maintenance, trouble restoration work, tree ticket investigation, auditor expenses, tree contractor’s field supervision, and incentive program for tree contractor’s employees.

D. Measures Of Improvement In System Reliability (SAIFI, CAIDI, SAIDI, and CMI)

Table 4 provides total system reliability indices for Kentucky Power’s distribution system from 2010 (when the Vegetation Management Program began) through December 31, 2016. Table 5 provides reliability indices limited to Tree Inside of Right-of-Way outages for the same period.

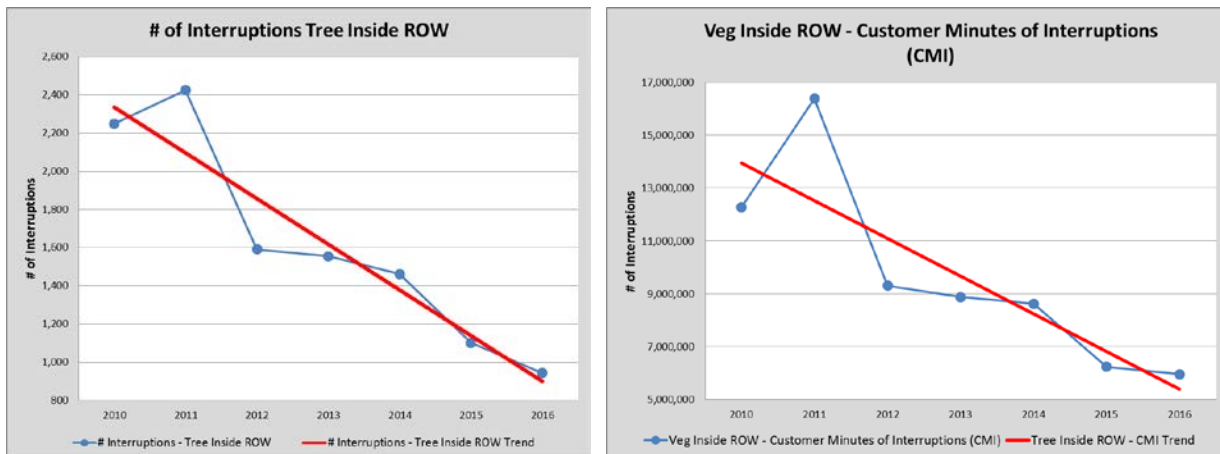
Table 4 and Table 5 include data relating to System Average Interruption Frequency Index (“SAIFI”), the Customer Average Interruption Duration Index (“CAIDI”), and the System Average Interruption Duration Index (“SAIDI”) for each reporting period. Excluded from the calculation of the indices are major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

Table 4: Seven Year Reporting Indices for all Outage Cause Codes			
Year	SAIFI	CAIDI	SAIDI
2010	2.4701	169.39	418.4
2011	3.0854	195.38	602.84
2012	2.4174	189.46	457.99
2013	2.1442	178.49	382.71
2014	2.3736	212.88	505.29
2015	2.4669	189.76	468.12
2016	2.1753	205.14	446.24

Table 5: Seven Year Reporting Indices for Tree Inside Right-of-Way Outage Cause Codes			
YEAR	Tree Inside Right-of-Way SAIFI	Tree Inside Right-of-Way CAIDI	Tree Inside Right-of-Way SAIDI
2010	0.3707	190.7	70.68
2011	0.4192	227.4	95.32
2012	0.2562	258.8	66.31
2013	0.2815	184.3	51.88
2014	0.2154	236.3	50.89
2015	0.1782	207.6	37
2016	0.1719	207.2	35.61

Table 5 highlights the efficacy of the Company’s Vegetation Management Program, which focuses on inside right-of-way vegetation management. The 2016 Tree Inside Right-Of-Way SAIFI, CAIDI, and SAIDI metrics are 40%, 5%, and 43%, respectively, below the average Tree Inside Right-Of-Way SAIFI, CAIDI, and SAIDI metrics for the period 2010-2015.

Since the Vegetation Management Program began in July 2010, the annual number of Tree Inside Right-Of-Way outages (excluding major event days) has been reduced by approximately 58% from 2,250 to 943. The annual number of customer minutes of interruption associated with these events has been reduced by approximately 52% from 12,280,664 to 5,949,862.



E. Vegetation Management Program-To-Date Expenditures

Kentucky Power committed to expend \$127,563,218 on Vegetation Management O&M from the beginning of the program June 29, 2010 through December 31, 2016. In that period the Company expended \$129,117,176 or \$1,553,958 (1.2%) more than its commitment. Kentucky Power’s Vegetation Management Program forecasted capital spending (“Planned Dollars”) during the same period was \$15,222,325. Through that period the Company expended \$21,385,680 or \$6,163,355 (40.5%) more than planned. Table 6 below provides the annual Committed Dollars, Actual Dollars, and Variance for both O&M and Capital Expenditures.

Table 6: Vegetation Management Program Year to Date Expenditures						
Year	O&M Vegetation Management Program			Capital Vegetation Management Program		
	Planned Dollars	Actual Dollars	Variance	Planned Dollars	Actual Dollars	Variance
2010	\$8,618,983	\$8,950,346	\$331,363	\$1,000,000	\$520,507	-\$479,493
2011	\$17,237,965	\$17,261,128	\$23,163	\$2,500,000	\$1,473,700	-\$1,026,300
2012	\$17,237,965	\$17,029,248	-\$208,717	\$2,550,000	\$2,643,820	\$93,820
2013	\$17,237,965	\$17,466,579	\$228,614	\$2,550,000	\$3,428,239	\$878,239
2014	\$17,237,965	\$17,567,439	\$329,474	\$2,550,000	\$3,901,140	\$1,351,140
2015	\$22,327,777	\$23,067,891	\$740,114	\$2,550,000	\$5,699,748	\$3,149,748
2016	\$27,664,598	\$27,774,545	\$109,947	\$1,522,325	\$3,718,526	\$2,196,201
Total	\$127,563,218	\$129,117,176	\$1,553,958	\$15,222,325	\$21,385,680	\$6,163,355

F. Balancing Account

Under paragraph 8(e)(ii) of the Settlement Agreement, a one-way balancing account was established beginning July 1, 2015. The account, which reflects the Company’s commitment to make \$27,661,060 in Vegetation Management O&M expenditures during each July 1 through June 30 period (“Vegetation Management Year”), will continue until base rates are next established. The balancing account will track any shortfall or over-expenditure in Vegetation Management Year Vegetation Management O&M expenditures.

When Company base rates are established after July 1, 2019 any cumulative shortfall in Vegetation Management O&M expenditures will be refunded to customers or used to reduce the Company’s revenue requirement. The Company may not recover any cumulative over-expenditure.

Further information concerning the Balancing Account is presented in Table 7.

Table 7: Kentucky Power Budgeted Expenses for Case No. 2014-00396							
Targeted Task VM Program	Year				Total Budget	Total Actual	Variance
	Budget 2015 (6 Months)	Actual 2015	Budget 2016	Actual 2016			
Task 1	\$8,618,983	\$9,485,769	\$17,237,965	\$17,492,806	\$25,856,948	\$26,978,575	\$1,121,627
Task 2	\$5,089,812	\$4,134,948	\$10,426,633	\$10,281,740	\$15,516,445	\$14,416,688	-\$1,099,757
VM Program Dollars	\$13,708,795	\$13,620,717	\$27,664,598	\$27,774,546	\$41,373,393	\$41,395,263	\$21,870

The Company’s Vegetation Management O&M expenditures since the enhanced plan was approved in Case No. 2014-00396 were \$41,395,263. These expenditures represent 100.05% of the requirement or \$21,870 (0.05%) more than its commitment. Kentucky Power continues to track/monitor the Vegetation Management total O&M expenditures.

2016 KY POWER FORESTRY CIRCUIT HISTORY				Costs that were not allocated to a circuit include; internal labor & fleet costs, some unscheduled hotspot maintenance, trouble restoration work, tree ticket investigation, auditors expense, tree contractors' field supervision, and incentive program for tree contractor's employees.							
Task 1 - Ashland District											
Circuit data in BOLD represent Full-Circuit Reclearing											
Circuit Number	Circuit Name	Cost (includes O&M and Capital)	Total Line Miles	Reclearing Miles Planned	Reclearing Miles Complete	Tree Trim	Tree Removal	Brush Cut (acres)	Brush Spray (acres)	Tree Growth Regulator	COMMENTS
2206403	South Neal - Whites Creek	\$1,346,633.48	38.8	18.8	18.8	8,969	12,680	97.7	119.3		Completed Full Circuit Clearing
3000101	Ashland - 25th St	\$6,360.32	1.4	1.4	1.4	22	11	0.0	0.0		Completed Full Circuit Clearing
3000102	Ashland - 29th St	\$92,659.82	7.0	7.0	7.0	142	432	1.3	0.0		Completed Full Circuit Clearing
3000103	Ashland - 14th St	\$12,123.09	1.3	1.3	1.3	17	3	0.0	0.0		Completed Full Circuit Clearing
3000104	Ashland - 3rd St	\$369.97	0.2	0.2	0.2	0	0	0.0	0.0		Completed Full Circuit Clearing
3000105	Ashland - 1st St	\$2,192.55	1.7	1.7	1.7	0	0	0.1	0.0		Completed Full Circuit Clearing
3001003	Hitchens - Grayson	\$540,538.21	48.4	21.6	22.8	1,614	3,318	16.4	0.0		Began Full Circuit Clearing - To be completed in 2017
3001102	Hoods Creek - Rural	\$434,306.69	47.0	32.2	19.8	1,403	4,081	9.3	0.0		Began Full Circuit Clearing - To be completed in 2017
3001204	Howard Collins - Summit	\$259,351.62	25.7	25.7	11.0	1,125	4,588	15.0	0.0		Began Full Circuit Clearing - To be completed in 2017
3003701	Coalton - U.S. 60 W	\$114,869.16	87.5	5.0	5.0	244	427	2.2	107.3		Completed Full Circuit Clearing
3007905	Busseyville - Mattie	\$1,094,582.88	91.0	69.5	60.0	3,922	12,796	117.1	0.0		Continued Full Circuit Clearing - To complete in 2017
3010602	Russell - Bear Run	\$171,680.82	13.0	10.0	13.0	567	2,150	4.2	3.4		Completed Full Circuit Clearing
3116101	Grayson - Lansdowne	\$430,288.68	36.1	36.1	36.1	2,062	2,786	19.1	11.4		Completed Full Circuit Clearing
3116102	Grayson - Dixie Park	\$113,253.22	33.5	12.9	33.5	400	664	3.6	0.8		Completed Full Circuit Clearing
3116701	Belhaven - Diedrich	\$232,935.40	12.1	12.1	12.1	765	1,245	1.5	0.0		Completed Full Circuit Clearing
3116702	Belhaven - Indian Run	\$367,587.50	19.5	19.5	19.3	1,268	1,772	8.6	2.6		Began Full Circuit Clearing - To be completed in 2017
3116703	Belhaven - Argillite	\$218,942.65	28.0	28.0	13.0	454	565	0.5	1.6		Completed Full Circuit Clearing
3117601	Princess - Meade	\$179,205.48	46.8	12.6	12.6	780	1,062	5.2	76.9		Completed Full Circuit Clearing
3117602	Princess - Rt 180	\$483,618.89	25.0	25.0	25.0	1,406	6,112	27.0	55.9		Completed Full Circuit Clearing
3000202	Big Sandy - Burnaugh	\$56,673.65	84.5	0.0	0.0	0	0	0.0	100.9		Ground Spray
3000302	Bellefonte - Flatwoods	\$2,025.12	3.2	0.0	0.0	0	0	0.0	4.9		Ground Spray
3000303	Bellefonte - Bellefonte	\$17,501.11	56.2	0.0	0.0	2	3	0.0	0.0		Quality of Service Work
3000304	Bellefonte - Town Center	\$1,348.78	2.7	0.0	0.0	0	0	0.0	4.2		Ground Spray
3000601	Grahn - Distribution	\$1,499.03	45.3	0.0	0.0	0	1	0.0	0.0		Quality of Service Work
3000901	Highland - Russell	\$8,599.27	24.0	0.0	0.0	5	0	0.0	13.5		Ground Spray
3000903	Highland - Wurland	\$1,773.77	15.0	0.0	0.0	0	0	0.0	3.4		Ground Spray
3001001	Hitchins - Damron Branch	\$25,573.67	46.2	0.0	0.0	63	486	1.8	0.0		Widening
3001002	Hitchins - Willard	\$4,742.98	152.0	0.0	0.0	7	10	0.1	0.0		Quality of Service Work
3001004	Hitchins - EK Road	\$3,786.60	31.4	0.0	0.0	0	0	0.0	0.0		Work Planning for 2017
3001101	Hoods Creek - Summitt	\$2,223.72	22.7	0.0	0.0	1	11	0.0	0.0		Quality of Service Work
3001201	Howard Collins - 13th St.	\$1,073.36	13.2	0.0	0.0	0	0	0.0	3.1		Ground Spray
3001203	Howard Collins - Floyd St.	\$1,149.67	11.0	0.0	0.0	0	0	0.0	1.9		Ground Spray
3001204	Howard Collins - Summitt	\$34,894.68	25.7	0.0	0.0	1	142	0.0	0.0		Widening
3001402	Louisa - High Bottom	\$430.51	13.0	0.0	0.0	0	0	0.0	1.1		Ground Spray
3002001	South Shore - Siloam	\$3,081.55	34.4	0.0	0.0	0	5	0.0	0.0		Quality of Service Work
3002002	South Shore - Distribution	\$530.08	8.8	0.0	0.0	0	0	0.0	0.9		Ground Spray
3003702	Coalton - Cannonsburg	\$67,359.89	23.3	0.0	0.0	0	1670	0.0	18.4		Widening and Ground Spray
3003703	Coalton - Trace Creek	\$58,351.96	82.5	27.7	0.0	24	1,272	0.0	0.0		Began Planning and Widening - To Complete in 2017
3007903	Busseyville - Louisa	\$29,757.98	44.0	44.0	0.0	0	23	0.4	0.0		Began Planning and Widening - To Complete in 2017
3007904	Busseyville - Torchlight	\$15,902.53	97.0	0.0	0.0	31	189	0.3	0.0		Widening
3008003	47th Street - Catlettsburg	\$12,838.30	28.0	0.0	0.0	0	0	0.0	24.9		Ground Spray
3008701	Cannonsburg - Cannonsburg	\$1,226.79	63.0	0.0	0.0	0	3	0.0	0.0		Quality of Service Work
3008702	Cannonsburg - Rt. 3	\$4,799.19	100.0	0.0	0.0	0	7	0.0	0.0		Quality of Service Work
ASHLAND DISTRICT Totals		\$6,458,644.62		412.3	313.6	25,294	58,514	331.4	556.1	0.0	

2016 KY POWER FORESTRY CIRCUIT HISTORY				Costs that were not allocated to a circuit include: internal labor & fleet costs, some unscheduled hotspot maintenance, trouble restoration work, tree ticket investigation, auditors expense, tree contractors' field supervision, and incentive program for tree contractor's employees.							
Task 1 - Hazard District											
<i>Circuit data in BOLD represent Full-Circuit Reclearing</i>											
Circuit Number	Circuit Name	Cost (includes O&M and Capital)	Total Line Miles	Reclearing Miles Planned	Reclearing Miles Complete	Tree Trim	Tree Removal	Brush Cut (acres)	Brush Spray (acres)	Tree Growth Regulator	COMMENTS
3300601	Bluegrass - Walkertown	\$210,294.94	29.0	15.8	15.8	1,060	3,613	19.0	18.1		Completed Full Circuit Clearing
3301101	Chavies - Chavies	\$37,421.73	69.1	2.5	0.3	8	135	3.5	58.7		Began Full Circuit Clearing - To be completed in 2017
3309302	Vicco - Jeff	\$270,264.34	84.7	29.8	24.9	825	5,138	31.8	98.2		Continued Full Circuit Clearing - To complete in 2017
3309901	Slemp - Defeated Creek	\$84,407.72	13.4	13.4	13.4	64	4,032	70.9	4.7		Completed Full Circuit Clearing
3309902	Slemp - Leatherwood	\$497,953.27	71.3	27.7	27.7	1,072	17,383	76.9	10.2		Continued Full Circuit Clearing - To complete in 2017
3310501	Haddix - Quicksand	\$44,137.81	201.0	10.0	0.0	0	4	0.0	84.1		Ground Spray
3310502	Haddix - Canoe	\$436,296.92	125.0	42.3	43.3	1,136	7,206	97.4	72.4		Continued Full Circuit Clearing - To complete in 2017
3401301	Fleming - Neon	\$359,870.24	20.5	20.5	20.5	1,725	2,678	28.4	0.0		Completed Full Circuit Clearing
3401302	Fleming - McRoberts	\$191,266.04	30.3	20.3	20.3	820	1,130	22.5	0.0		Completed Full Circuit Clearing
3420001	Softshell - Vest	\$267,953.87	56.7	38.7	38.7	957	8,662	72.3	0.0		Completed Full Circuit Clearing
3300602	Bluegrass - Hazard	\$10,195.55	0.0	0.0	0.0	0	0	0.0	19.2		Ground Spray
3303901	Leslie - Hyden	\$150,790.27	0.0	0.0	0.0	0	0	0.0	360.0		Ground Spray
3303902	Leslie - Wooton	\$10,494.56	0.0	0.0	0.0	10	132	0.3	9.8		Ground Spray and Widening
3303903	Leslie - Hals Fork	\$4,611.39	0.0	0.0	0.0	0	0	0.0	5.7		Ground Spray
3307301	Bulan - Ary Hiner	\$2,922.87	0.0	0.0	0.0	5	64	0.8	0.0		Quality of Service Work
3307302	Bulan - Ajax Dwarf	\$3,820.56	40.0	0.0	0.0	0	18	0.0	0.0		Quality of Service Work
3308002	Jackson - Panbowl	\$5,569.11	31.6	0.0	0.0	0	0	0.0	8.3		Ground Spray
3308601	Collier - Upper Rockhouse	\$40,510.96	0.0	0.0	0.0	0	0	0.0	86.9		Ground Spray
3308603	Collier - Smoot Creek	\$988.97	0.0	0.0	0.0	16	0	0.0	0.0		Quality of Service Work
3309001	Jeff - Boone Ledge	\$3,203.36	5.0	0.0	0.0	0	4	0.0	3.8		Ground Spray
3309002	Jeff - Jeff	\$18,418.15	5.7	0.0	0.0	0	0	0.0	14.3		Ground Spray
3309003	Jeff - Viper	\$2,459.61	0.0	0.0	0.0	0	0	0.0	6.1		Ground Spray
3309101	Whitesburg - Whitesburg	\$2,549.93	10.0	0.0	0.0	0	1	0.0	0.0		Quality of Service Work
3309103	Whitesburg - Cowan	\$23,419.93	0.0	0.0	0.0	0	0	0.0	38.2		Ground Spray
3309104	Whitesburg - Crafts Colley	\$14,753.48	28.0	0.0	0.0	8	138	0.0	0.0		Widening
3309301	Vicco - Red Fox	\$41,151.13	0.0	0.0	0.0	0	0	0.0	94.5		Ground Spray
3310501	Haddix - Quicksand	\$44,137.81	201.1	10.0	0.0	0	4	0.0	84.1		Ground Spray
3312202	Engle - Grapevine	\$9,699.80	0.0	0.0	0.0	0	0	0.0	31.9		Ground Spray
3420002	Softshell - Leburn	\$29,704.41	0.0	0.0	0.0	17	189	0.4	65.6		Ground Spray and Widening
3451202	Beehide - Dunham	\$524.59	9.8	0.0	0.0	0	6	0.0	0.0		Quality of Service Work
HAZARD DISTRICT Totals		\$2,819,793.32		231.0	204.9	7,723	50,537	424.2	1,174.8	0.0	

2016 KY POWER FORESTRY CIRCUIT HISTORY				Costs that were not allocated to a circuit include; internal labor & fleet costs, some unscheduled hotspot maintenance, trouble restoration work, tree ticket investigation, auditors expense, tree contractors' field supervision, and incentive program for tree contractor's employees.							
Task 1 - Pikeville District											
Circuit data in BOLD represent Full-Circuit Reclearing											
Circuit Number	Circuit Name	Cost (includes O&M and Capital)	Total Line Miles	Reclearing Miles Planned	Reclearing Miles Complete	Tree Trim	Tree Removal	Brush Cut (acres)	Brush Spray (acres)	Tree Growth Regulator	COMMENTS
3201002	Tom Watkins - Distribution - A	\$610,901.93	28.8	0.0	23.0	2356	11943	39.6	0.0		Began Full Circuit Clearing - To be completed in 2017
3400302	Betsy Layne - Tram	\$577,639.76	35.0	35.0	35.0	1896	6563	47.8	9.3		Completed Full Circuit Clearing
3401702	Henry Clay - Regina	\$857,818.74	112.6	49.3	25.5	1352	7616	251.2	14.1		Began Full Circuit Clearing - To be completed in 2017
3401703	Henry Clay - Ashcamp	\$930,119.06	43.0	43.0	43.0	2373	10359	106.1	0.0		Completed Full Circuit Clearing
3401801	Index - Distribution	\$561,216.52	54.1	54.0	52.8	2067	8971	95.5	0.0		Began Full Circuit Clearing - To be completed in 2017
3402204	McKinney - Maytown	\$472,134.31	36.0	36.0	36.0	1668	9871	54.9	0.0		Completed Full Circuit Clearing
3402501	Middle Creek - Distribution	\$51,894.38	6.0	6.0	6.0	148	1099	13.3	0.0		Completed Full Circuit Clearing
3403001	Pikeville - City	\$121,472.50	20.0	12.9	12.9	373	1488	15.0	0.0		Completed Full Circuit Clearing from 2015
3403301	Prestonsburg - City	\$53,235.96	6.7	7.0	7.0	157	796	3.7	0.0		Completed Full Circuit Clearing
3407101	Topmost - Dema	\$328,934.89	37.0	37.0	37.0	1456	9043	70.3	0.6		Completed Full Circuit Clearing
3407102	Topmost - Caney	\$10,239.14	4.4	4.4	2.5	31	660	9.1	0.0		Completed Full Circuit Clearing
3407103	Topmost - Kite	\$290,475.29	25.4	25.0	25.0	1051	4392	48.2	0.0		Completed Full Circuit Clearing
3409301	Kenwood - W Van Lear	\$212,589.61	19.0	19.0	19.0	637	3020	97.0	8.8		Completed Full Circuit Clearing
3409302	Kenwood - Auxier	\$992.87	41.6	2.6	0.0	0	2	0.0	0.0		Capital Work
3410501	So. Pikeville - Pikeville	\$20,486.44	10.0	10.0	1.3	26	179	0.6	0.0		Began Full Circuit Clearing - To be completed in 2017
3410601	E. Prestonsburg - Prestonsburg	\$101,989.63	7.1	7.0	7.0	181	730	3.4	0.3		Completed Full Circuit Clearing
3411401	Dewey - Inez-A	\$2,185,874.74	171.0	143.5	143.5	7272	28836	338.4	0.0		Completed Full Circuit Clearing from 2015
3411802	Johns Creek - Raccoon	\$887,921.42	84.8	58.3	58.3	2372	11108	93.9	2.7		Completed Full Circuit Clearing from 2015
3413402	Garrett - Lackey	\$335,802.34	34.7	35.0	25.6	1501	7276	56.2	0.0		Began Full Circuit Clearing
3414501	Consol - Coal Co	\$13,420.49	4.6	0.0	3.6	13	293	3.0	0.0		Began Full Circuit Clearing
3420103	Mayo Trail - Davis Branch	\$170,275.27	33.1	0.0	19.0	512	2388	34.1	0.0		Began Full Circuit Clearing
3150501	Borderland - Nolan - A	\$31,842.68	18.0	0.0	0.0	0	0	0.0	52.2		Ground Spray
3200201	Barrenshe - Freeburn	\$30,284.52	13.0	0.0	0.0	52	197	4.6	0.0		Capital Work
3200204	Barrenshe - Pounding Mill	\$39,290.78	16.0	0.0	0.0	0	0	3.9	64.1		Ground Spray
3202202	Lovely - Wolf Creek	\$70,168.78	58.7	0.0	0.0	0	0	0.0	71.1		Ground Spray
3400301	Betsy Layne - Mud Creek	\$652.39	77.0	0.0	0.0	0	1	0.0	0.0		Capital Work
3400701	Draffin - Belcher	\$35,010.30	21.0	0.0	0.0	0	0	0.0	44.0		Ground Spray
3400901	Elkhorn City - City	\$49,469.37	27.8	0.0	0.0	0	0	0.0	61.7		Ground Spray
3400902	Elkhorn City - Grassy	\$3,807.46	4.0	0.0	0.0	0	0	0.0	4.0		Ground Spray
3401101	Falcon - Oil Springs	\$4,542.70	48.5	0.0	0.0	0	2	0.0	15.5		Ground Spray and Capital
3401102	Falcon - Salyersville	\$5,363.78	44.0	0.0	0.0	0	0	0.0	16.2		Ground Spray
3401103	Falcon - Burning Fork	\$51,671.05	71.7	0.0	0.0	0	0	0.0	185.7		Ground Spray
3402002	Keyser - Stonecoal	\$1,251.01	37.3	0.0	0.0	0	11	0.0	0.0		Capital Work
3402003	Keyser - Mullins	\$54,532.78	29.6	0.0	0.0	0	0	0.0	60.3		Ground Spray
3403003	Pikeville - Cedar Creek	\$8,535.26	28.0	0.0	0.0	6	9	0.0	0.0		Quality of Service Work
3403201	Beaver Creek - Ligon	\$362.98	80.0	0.0	0.0	1	0	0.0	0.0		Quality of Service Work
3403202	Beaver Creek - Price	\$13,119.97	21.0	0.0	0.0	0	0	0.0	13.2		Ground Spray
3403302	Prestonsburg - University	\$2,162.36	18.0	0.0	0.0	0	50	0.1	0.0		Capital Work
3404301	Sidney - Big Creek	\$13,126.62	29.1	0.0	0.0	0	0	0.0	0.0		Work Planning for 2017 Clearing
3408103	Salisbury - Martin	\$8,620.02	46.0	0.0	0.0	1	15	0.0	0.0		Capital Work
3408303	Coleman - Peter Creek	\$93,052.27	40.0	0.0	0.0	0	0	0.0	132.9		Ground Spray
3408304	Coleman - Calloway	\$57,634.20	36.0	0.0	0.0	7	63	0.0	102.0		Capital Work and Ground Spray
3409002	W. Paintsville - Staffordsville	\$5,338.50	21.0	0.0	0.0	3	3	0.0	0.0		Quality of Service Work
3411801	Johns Creek - Meta	\$358,729.30	167.0	0.0	0.0	6	32	0.1	525.8		Capital Work and Ground Spray
3413401	Garrett - Garrett	\$3,801.35	38.4	0.0	0.0	0	3	0.0	0.0		Capital Work
3417602	New Camp - Arh-W Wmsn	\$13,490.19	17.0	0.0	0.0	0	0	0.0	0.0		Work Planning for 2017 Clearing
PIKEVILLE DISTRICT Totals		\$9,751,295.91		585.0	583.0	27,518	127,019	1,389.9	1,384.5	0.0	

2016 KY POWER FORESTRY CIRCUIT HISTORY
Ashland District - Task 2

Costs that were not allocated to a circuit include; internal labor & fleet costs, some unscheduled hotspot maintenance, trouble restoration work, tree ticket investigation, auditors expense, tree contractors' field supervision, and incentive program for tree contractor's employees.

Circuit Number	Circuit Name	Cost (includes O&M and Capital)	Total Line Miles	Reclearing Miles Planned	Reclearing Miles Complete	Tree Trim	Tree Removal	Brush Cut (acres)	Brush Spray (acres)	Tree Growth Regulator	COMMENTS
3000201	Big Sandy - Fallsburg	\$1,141,390.01	161.1	58.1	74.8	5,843	3,900	197.1	42.5		Begin 2nd Cycle Re-clearing - To be Completed in 2017
3000301	Bellefonte - Westwood	\$438,318.48	23.5	23.5	23.5	2,133	498	44.1	0.0		Completed 2nd Cycle Re-clearing
3000701	Graysbranch - Graysbranch	\$590,930.21	68.8	23.0	24.7	3,534	1,625	32.7	0.0		Begin 2nd Cycle Re-clearing - To be Completed in 2017
3001202	Howard Collins - 29th St.	\$10,647.13	13.4	0.0	0.0	0	4	0.0	0.5		Work Planning for 2017
3008002	47th Street - 39th Street	\$192,167.38	13.1	13.1	13.1	1,016	225	5.6	0.0		Completed 2nd Cycle Re-clearing
3103101	Olive Hill - Globe	\$1,568,395.83	120.7	75.0	75.6	9,366	8,975	539.4	119.5		Begin 2nd Cycle Re-clearing - To be Completed in 2017
3110903	Wurtland - Rt. 503	\$325,933.26	46.0	18.0	18.0	1,782	360	13.6	0.0		Begin 2nd Cycle Re-clearing - To be Completed in 2017
ASHLAND DISTRICT Totals		\$4,267,782.30		210.7	229.7	23,674	15,587	832.5	162.5	0	

Hazard District - Task 2

3300601	Bluegrass - Walkertown	\$102,836.75	29.0	12.7	12.7	719	957	13.80	4.80		Completed 2nd Cycle Re-clearing
3301101	Chaves - Chaves	\$153,764.99	69.1	17.5	10.0	183	3,788	59.90	0.00		Began 2nd Cycle Re-clearing - To be Completed in 2017
3301401	Combs - Combs	\$54,202.85	9.0	9.0	9.0	235	665	9.30	0.00		Completed 2nd Cycle Re-clearing
3301402	Combs - Airport Gardens	\$444,312.65	43.0	43.0	39.0	1,758	5,520	71.3	1.3		Began 2nd Cycle Re-clearing - To be Completed in 2017
3302701	Hazard - Black Gold	\$8,654.78	55.0	0.0	0.0	0	0	0.0	7.9		2nd Cycle Ground Spray
3302703	Hazard - Hazard	\$11,711.30	11.2	0.0	0.0	0	0	0.0	12.2		2nd Cycle Ground Spray
3307303	Bulan - Lotts Creek	\$1,230.57	2.2	0.0	0.0	0	0	0.0	4.4		2nd Cycle Ground Spray
3308401	Beckham - Hindman	\$314,752.16	102.0	44.0	23.5	603	4,556	45.3	1.8		Began 2nd Cycle Re-clearing - To be Completed in 2017
3308402	Beckham - Carr Creek	\$3,060.90	111.0	0.0	0.0	0	4	0.0	0.0		Quality of Service Work
3308503	Bonnyman - Big Creek	\$18,003.39	84.0	0.0	0.0	0	10	0.0	17.5		2nd Cycle Ground Spray
3309101	Whitesburg - Whitesburg	\$4,441.02	10.0	0.0	0.0	2	5	0.4	0.0		Quality of Service Work
3309903	Slemp - Beech Fork	\$4,052.40	0.0	0.0	0.0	0	324	8.5	0.0		2nd Cycle Widening
3311101	Stinnett - Redbird	\$673,307.36	121.0	84.2	75.0	3,121	9,622	134.5	5.4		Began 2nd Cycle Re-clearing - To be Completed in 2017
3311102	Stinnett - Beech Fork	\$21,866.59	10.0	1.5	1.5	28	399	0.3	0.0		Completed 2nd Cycle Re-clearing
3311103	Stinnett - Wendover	\$1,399.71	0.0	0.0	0.0	0	0	0.0	1.0		2nd Cycle Ground Spray
3311401	Reedy - Deane	\$304,834.73	44.5	44.5	31.7	1,100	4,173	54.2	0.0		Began 2nd Cycle Re-clearing - To be Completed in 2017
3314401	Mayking - Ermine	\$17,178.15	28.8	0.0	0.0	0	57	0.1	27.4		2nd Cycle Ground Spray and Widening
3314402	Mayking - Millstone	\$38,259.75	55.0	0.0	0.0	14	76	0.7	42.7		2nd Cycle Ground Spray and Widening
HAZARD DISTRICT Totals		\$2,177,870.05		256.4	202.4	7,763	30,156	398.3	126.4	0	

Pikeville District - Task 2

3200202	Barrenshe - Vulcan A	\$764,268.07	49.0	49.0	49.0	2,928	10,581	69.9	0.0		Completed 2nd Cycle Re-clearing
3202201	Lovely - Lovely	\$1,415,941.45	41.0	20.0	41.0	625	875	22.6	66.9		Completed 2nd Cycle Re-clearing and Ground Spray
3400101	Allen - Distribution	\$180,725.87	26.0	15.0	26.0	555	1,913	38.9	55.6		Completed 2nd Cycle Re-clearing and Ground Spray
3400702	Draffin - Yellow Hill	\$41,358.51	12.4	12.0	0.0	0	87	0.0	22.0		Widening and Ground Spray for 2nd Cycle Re-clearing
3401001	Elwood - Dorton	\$394,289.44	43.3	43.3	35.0	1,270	8,632	49.2	12.8		Began Interim Re-Clearing - To be Completed in 2017
3401002	Elwood - Virgie	\$1,310,942.11	71.0	71.0	80.0	4,795	22,932	123.1	6.7		Completed 2nd Cycle Re-Clearing
3404302	Sidney - Coburn Mtn.	\$93,024.24	46.1	0.0	0.0	0	0	0.0	184.4		2nd Cycle Ground Spray
3409303	Kenwood - Hagerhill	\$932,713.58	51.0	20.0	49.0	4,172	4,102	6.5	0.0		Began Interim Re-Clearing - To be Completed in 2017
3409502	Burdine - Levisa	\$97,374.53	39.4	15.0	0.0	0	32	0.0	125.3		2nd Cycle Ground Spray and Widening
3411901	Fords Branch - Shelby	\$12,853.46	42.4	39.0	0.0	0	0	0.0	0.0		Work Planning for 2017 2nd Cycle Re-clearing
3411902	Fords Branch - Robinson Ck	\$40,243.55	39.4	15.0	0.0	0	0	0.0	39.4		2nd Cycle Ground Spray
PIKEVILLE DISTRICT Totals		\$5,283,734.81		299.3	280.0	14,345	49,154	310.2	513.1	0	

KY POWER Totals		\$11,729,387.16		766.4	712.1	45,782	94,897	1,541.0	802.0	0.0	
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Kentucky Power Forestry Plan Terminology

Feeder Breaker Zone

Synonymous with Station Zone. Segment of line extending from the circuit station breaker to the first operating device. This zone includes unfused taps, but does not include fused taps.

Full Circuit Reclear

Entire circuit from the station breaker to the end of the circuit.

Recloser Zone

Line segment extending from a specific recloser to the next operating device. This zone includes unfused taps, but does not include fused taps.

Partial Reclear

A portion of the circuit is planned for reclearing.

BID JOB

Planned reclearing work released as an open, lump-sum bid for competing contractors.

Finish Full Circuit Reclear

Reclearing scheduled to complete Full Circuit Reclear that began in the previous year.

2nd Recloser Zone

Line segment beginning at the second operating device beyond the station circuit breaker extending to the next operating device. This zone includes unfused taps, but does not include fused taps.

Quality-of-Service Work

Tree trimming or removal work scheduled for a line segment to address reliability issues. This work does not conform to reclearing specifications (e.g.-Hotspotting).

Cycle Buster Tree

A tree that has to be revisited before the circuit is due for its next cycle trim.