

Goss ■ Samford PLLC



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April 22, 2015

Via Hand-Delivery

Mr. Jeffrey Derouen

Executive Director

Kentucky Public Service Commission

P.O. Box 615

211 Sower Boulevard

Frankfort, KY 40602

RECEIVED

APR 22 2015

PUBLIC SERVICE
COMMISSION

Re: An Investigation of the Reliability Measures of Kentucky's Jurisdictional Electric Distribution Utilities; PSC Administrative Case No. 2011-00450

Dear Mr. Derouen:

Enclosed please find and accept for filing in the above-referenced matter a paper and electronic copy of Blue Grass Energy Cooperative Corporation's 2014 Annual Reliability Report. This Report is filed pursuant to the Commission's Orders entered May 30, 2013, and April 1, 2014, in the above-referenced matter.

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

Very truly yours,

M. Evan Buckley

Enclosure



Blue Grass Energy

2014 Annual PSC Reliability Report

SECTION 1: CONTACT INFORMATION

UTILITY NAME	1.1	<u>BLUE GRASS ENERGY COOPERATIVE CORPORATI</u>
REPORT PREPARED BY	1.2	<u>TOM CASTLE</u>
E-MAIL ADDRESS OF PREPARER	1.3	<u>TOMC@BGENERGY.COM</u>
PHONE NUMBER OF PREPARER	1.4	<u>(859) 885-2120</u>

SECTION 2: REPORT YEAR

CALENDAR YEAR OF REPORT	2.1	<u>2014</u>
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SECTION 3: MAJOR EVENT DAYS

	T_{MED}	3.1	<u>11.65</u>
FIRST DATE USED TO DETERMINE T_{MED}		3.2	<u>Jan 1 2009</u>
LAST DATE USED TO DETERMINE T_{MED}		3.3	<u>Dec 31 2013</u>
NUMBER OF MED IN REPORT YEAR		3.4	<u>4</u>

NOTE: Per IEEE 1366 T_{MED} should be calculated using the daily SAIDI values for the five prior years. If five years of data are not available, then utilities should use what is available until five years are accumulated.

SECTION 4: SYSTEM RELIABILITY RESULTS

Total Customers	<u>55,614</u>	Total Circuits	<u>130</u>
		Excluding MED	
	5 Year Average		Reporting Year
SAIDI	<u>114.10</u>	SAIDI	<u>122.9</u>
SAIFI	<u>1.14</u>	SAIFI	<u>1.22</u>
		Including MED	
	5 Year Average		Reporting Year
SAIDI	<u>231.50</u>	SAIDI	<u>257.8</u>
SAIFI	<u>1.42</u>	SAIFI	<u>1.54</u>

41-154

Substation Name and Number 3M #2 41
 Substation Location Hwy 982, Cynthiana, KY 41031
 Circuit Name and Number 3M #2 154
 Circuit Location Industrial Park
 Total Circuit Length (Miles) 50.7
 2014 Member Count 379
 Date of last Trim February 2012

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	173.58	1.8754	455.96	4.2111
Bird	0.04%	0.06%	0.00%	0.00%
Deterioration	6.46%	5.82%	9.13%	7.83%
Equipment Fault	28.18%	27.01%	42.54%	31.20%
Fire	0.04%	0.06%	0.00%	0.00%
Large Animal	0.01%	0.03%	0.00%	0.00%
Lightning	7.15%	4.00%	0.54%	0.94%
Power Supplier	43.76%	39.90%	33.77%	22.43%
Public Accident	1.17%	1.15%	0.00%	0.00%
Scheduled	4.31%	6.81%	7.17%	13.85%
Small Animal	0.65%	0.93%	0.23%	0.31%
Squirrel	0.17%	0.25%	0.23%	0.31%
Tree - Non ROW	3.27%	10.10%	6.23%	22.49%
Tree - ROW	2.25%	1.29%	0.00%	0.00%
Unknown Cause	2.45%	2.48%	0.14%	0.56%
Wind	0.07%	0.11%	0.03%	0.06%

Corrections to be made

No correction to be made at this time

41-164

Substation Name and Number 3M #2 41
 Substation Location Hwy 982, Cynthiana, KY 41031
 Circuit Name and Number 3M #2 164
 Circuit Location Oddville
 Total Circuit Length (Miles) 132.4
 2014 Member Count 1244
 Date of last Trim December 2010

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	170.15	1.7292	188.98	1.2822
Bird	0.14%	0.21%	0.00%	0.00%
Deterioration	5.50%	4.46%	0.23%	0.63%
Equipment Fault	4.90%	3.91%	0.51%	0.69%
Ice/Snow	5.03%	0.28%	0.00%	0.00%
Large Animal	0.00%	0.00%	0.00%	0.00%
Lightning	23.18%	15.31%	84.50%	78.37%
Overload	0.80%	0.79%	0.00%	0.00%
Power Supplier	26.57%	32.35%	0.00%	0.00%
Public Accident	3.35%	2.62%	4.41%	6.90%
Scheduled	0.77%	0.97%	0.12%	0.13%
Small Animal	0.38%	0.71%	0.21%	0.50%
Squirrel	1.58%	0.97%	6.92%	5.83%
Tree - Non ROW	0.93%	0.63%	0.36%	0.25%
Tree - ROW	0.44%	0.31%	0.99%	0.94%
Unknown Cause	19.23%	33.80%	1.70%	5.64%
Wind	7.18%	2.67%	0.05%	0.13%

Corrections to be made

No correction to be made at this time

21-114

Substation Name and Number BRIDGEPORT 21
 Substation Location Taylor Branch Rd., Frankfort, KY 40601
 Circuit Name and Number BRIDGEPORT 114
 Circuit Location Huntington Woods/Taylor Branch
 Total Circuit Length (Miles) 83.3
 2014 Member Count 1193
 Date of last Trim December 2011

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	267.14	2.3838	310.12	3.0273
Bird	0.15%	0.34%	0.00%	0.00%
Deterioration	0.31%	0.47%	0.11%	0.22%
Equipment Fault	15.69%	18.57%	33.05%	30.21%
Ice/Snow	0.07%	0.06%	0.00%	0.00%
Lightning	10.03%	8.01%	5.79%	2.85%
Power Supplier	27.68%	31.75%	46.03%	32.30%
Public Accident	2.24%	5.27%	3.90%	13.79%
Scheduled	0.15%	0.57%	0.32%	0.61%
Small Animal	0.49%	0.79%	0.22%	0.42%
Squirrel	0.31%	0.51%	0.07%	0.14%
Tree - Non ROW	12.93%	10.49%	6.12%	10.08%
Tree - ROW	7.56%	5.49%	4.10%	8.83%
Unknown Cause	1.84%	2.97%	0.23%	0.53%
Wind	20.54%	14.71%	0.05%	0.03%

Corrections to be made

Currently in the process of building 30 miles of deteriorating single-phase conductor
 Power supplier adding secondary substation to improve reliability

21-134

Substation Name and Number BRIDGEPORT 21
 Substation Location Taylor Branch Rd., Frankfort, KY 40601
 Circuit Name and Number BRIDGEPORT 134
 Circuit Location Harvieland/Flat Creek
 Total Circuit Length (Miles) 71.4
 2014 Member Count 439
 Date of last Trim November 2014

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	364.35	2.8243	557.51	4.1874
Bird	0.01%	0.02%	0.00%	0.00%
Deterioration	3.08%	2.00%	0.09%	0.16%
Equipment Fault	7.00%	5.37%	1.41%	1.09%
Ice/Snow	0.82%	0.85%	1.50%	1.85%
Lightning	18.63%	19.07%	19.38%	25.73%
Power Supplier	27.31%	33.65%	25.61%	23.35%
Public Accident	0.67%	1.08%	0.09%	0.11%
Small Animal	0.06%	0.08%	0.10%	0.05%
Squirrel	2.87%	6.92%	0.00%	0.00%
Tree - Non ROW	11.97%	14.89%	19.80%	24.04%
Tree - ROW	7.27%	4.05%	23.19%	13.11%
Unknown Cause	2.73%	3.52%	3.29%	3.26%
Wind	17.59%	8.50%	5.54%	7.24%

Corrections to be made

Very recently trimmed

Power supplier adding secondary substation to improve reliability

21-144

Substation Name and Number BRIDGEPORT 21
 Substation Location Taylor Branch Rd., Frankfort, KY 40601
 Circuit Name and Number BRIDGEPORT 144
 Circuit Location Coolbrook
 Total Circuit Length (Miles) 32.6
 2014 Member Count 1054
 Date of last Trim April 2013

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	210.70	2.0003	301.45	2.6875
Bird	1.23%	2.61%	0.02%	0.07%
Deterioration	1.86%	1.92%	1.79%	2.58%
Equipment Fault	1.30%	1.19%	0.07%	0.07%
Ice/Snow	0.03%	0.03%	0.00%	0.00%
Lightning	14.03%	12.76%	1.57%	2.26%
Overload	0.04%	0.07%	0.01%	0.04%
Power Supplier	35.10%	37.84%	47.36%	36.38%
Public Accident	0.17%	0.32%	0.00%	0.00%
Scheduled	0.39%	0.97%	0.10%	0.28%
Small Animal	0.60%	1.32%	0.13%	0.39%
Squirrel	0.82%	1.62%	0.02%	0.04%
Tree - Non ROW	18.32%	10.43%	0.03%	0.18%
Tree - ROW	15.26%	16.82%	37.77%	42.29%
Unknown Cause	1.40%	2.68%	0.11%	0.21%
Vandalism	0.01%	0.01%	0.00%	0.00%
Wind	9.47%	9.42%	11.01%	15.22%

Corrections to be made

Power supplier adding secondary substation to improve reliability

26-124

Substation Name and Number CLAY_LICK 26
 Substation Location Louisville, Rd., Salvisa, KY 40372
 Circuit Name and Number CLAY_LICK 124
 Circuit Location McCouns Ferry
 Total Circuit Length (Miles) 63.0
 2014 Member Count 593
 Date of last Trim December 2014

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	190.13	1.6708	336.38	1.2243
Bird	2.83%	1.78%	0.01%	0.41%
Deterioration	3.19%	3.77%	0.04%	0.28%
Equipment Fault	21.31%	28.66%	3.28%	20.52%
Fire	0.01%	0.02%	0.00%	0.00%
Ice/Snow	2.32%	2.66%	0.00%	0.00%
Large Animal	0.02%	0.08%	0.00%	0.00%
Lightning	17.95%	16.03%	7.44%	15.01%
Overload	0.09%	0.06%	0.00%	0.00%
Power Supplier	1.32%	10.70%	0.00%	0.00%
Public Accident	2.02%	2.62%	3.70%	10.47%
Sag/Clearance	0.01%	0.04%	0.00%	0.00%
Small Animal	1.76%	2.52%	0.70%	2.75%
Squirrel	0.27%	0.52%	0.36%	1.79%
Tree - Non ROW	7.16%	5.91%	2.36%	6.61%
Tree - ROW	33.21%	15.60%	77.41%	28.37%
Unknown Cause	5.03%	8.18%	4.02%	11.71%
Wind	1.51%	0.83%	0.68%	2.07%

Corrections to be made Very recently trimmed

26-134

Substation Name and Number CLAY_LICK 26
Substation Location Louisville, Rd., Salvisa, KY 40372
Circuit Name and Number CLAY_LICK 134
Circuit Location Lillard's Ferry
Total Circuit Length (Miles) 50.3
2014 Member Count 339
Date of last Trim September 2010

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	19.43	0.3180	35.98	0.3186
Bird	0.16%	0.19%	0.00%	0.00%
Deterioration	1.33%	1.86%	1.28%	4.63%
Equipment Fault	4.01%	1.86%	1.79%	2.78%
Lightning	3.23%	2.04%	2.20%	3.70%
Overload	0.37%	0.37%	0.54%	0.93%
Power Supplier	12.88%	56.21%	0.00%	0.00%
Scheduled	7.48%	5.38%	11.39%	9.26%
Small Animal	3.01%	2.78%	4.01%	7.41%
Squirrel	3.79%	4.45%	1.08%	1.85%
Tree - Non ROW	2.24%	0.56%	0.00%	0.00%
Tree - ROW	13.18%	5.94%	33.29%	26.85%
Unknown Cause	11.78%	9.46%	16.23%	25.00%
Wind	36.54%	8.91%	28.20%	17.59%

Corrections to be made

Vegetation to be trimmed in 2016

32-114

Substation Name and Number COLEMANSVILLE 32
 Substation Location Corner of HWY 1032 & 1054, Berry, KY 41003
 Circuit Name and Number COLEMANSVILLE 114
 Circuit Location Kelat
 Total Circuit Length (Miles) 62.7
 2014 Member Count 414
 Date of last Trim January 2013

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	43.59	0.5599	73.02	0.8961
Bird	0.28%	0.35%	0.00%	0.00%
Deterioration	19.14%	20.71%	49.15%	54.99%
Equipment Fault	23.54%	17.69%	35.42%	21.56%
Ice/Snow	8.08%	1.64%	0.02%	0.27%
Lightning	24.85%	17.69%	9.23%	14.56%
Public Accident	9.43%	21.23%	0.00%	0.00%
Scheduled	5.65%	10.44%	0.00%	0.00%
Small Animal	4.24%	3.97%	0.97%	1.35%
Squirrel	0.84%	0.86%	0.77%	0.54%
Tree - Non ROW	0.11%	0.09%	0.00%	0.00%
Tree - ROW	0.20%	0.09%	0.00%	0.00%
Unknown Cause	3.44%	4.92%	4.43%	6.74%
Wind	0.20%	0.35%	0.00%	0.00%

Corrections to be made

No action to be made at this time

13-114

Substation Name and Number CROOKSVILLE 13
 Substation Location Crooksville Rd., Richmond, KY 40475
 Circuit Name and Number CROOKSVILLE 114
 Circuit Location Speedwell
 Total Circuit Length (Miles) 69.8
 2014 Member Count 621
 Date of last Trim November 2014

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	67.03	0.6879	119.35	1.0853
Bird	4.22%	5.15%	0.00%	0.00%
Contractor	0.27%	0.61%	0.75%	1.93%
Deterioration	5.00%	3.46%	0.00%	0.00%
Equipment Fault	10.40%	9.50%	3.32%	2.23%
Large Animal	0.12%	0.51%	0.00%	0.00%
Lightning	22.64%	19.19%	53.43%	41.99%
Public Accident	18.03%	13.39%	0.00%	0.00%
Scheduled	2.41%	3.93%	0.29%	0.30%
Small Animal	3.97%	4.17%	8.08%	7.86%
Squirrel	0.08%	0.14%	0.15%	0.30%
Tree - Non ROW	3.63%	3.00%	8.68%	6.53%
Tree - ROW	4.12%	4.17%	9.71%	10.39%
Unknown Cause	24.40%	31.93%	15.60%	28.49%
Wind	0.70%	0.84%	0.00%	0.00%

Corrections to be made Vegetation very recently trimmed

13-124

Substation Name and Number CROOKSVILLE 13
 Substation Location Crooksville Rd., Richmond, KY 40475
 Circuit Name and Number CROOKSVILLE 124
 Circuit Location Ogg Lane
 Total Circuit Length (Miles) 50.0
 2014 Member Count 689
 Date of last Trim January 2010

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	28.35	0.4891	78.13	1.5501
Bird	2.01%	2.61%	0.00%	0.00%
Deterioration	5.64%	4.51%	0.18%	0.28%
Equipment Fault	19.96%	16.91%	31.53%	23.69%
Lightning	9.69%	7.30%	0.31%	0.09%
Overload	0.11%	0.12%	0.00%	0.00%
Public Accident	30.82%	43.20%	55.64%	67.88%
Scheduled	1.04%	0.59%	0.00%	0.00%
Small Animal	4.67%	4.69%	3.20%	3.65%
Squirrel	1.27%	1.25%	0.00%	0.00%
Tree - Non ROW	5.25%	2.14%	5.82%	1.59%
Tree - ROW	1.12%	1.31%	1.91%	1.97%
Unknown Cause	15.74%	12.88%	1.40%	0.84%
Wind	2.62%	2.43%	0.00%	0.00%

Corrections to be made

No action to be made at this time

4-104

Substation Name and Number DAVIS 4
 Substation Location Delong Rd., Lexington, KY 40515
 Circuit Name and Number DAVIS 104
 Circuit Location Ashgrove Pike
 Total Circuit Length (Miles) 19.5
 2014 Member Count 344
 Date of last Trim January 2010

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	64.33	0.8597	90.76	1.0669
Bird	4.67%	5.48%	5.90%	6.81%
Deterioration	0.18%	0.41%	0.00%	0.00%
Equipment Fault	0.50%	0.27%	0.00%	0.00%
Lightning	40.44%	24.47%	0.92%	2.45%
Public Accident	2.84%	4.67%	0.00%	0.00%
Scheduled	1.00%	0.81%	0.00%	0.00%
Small Animal	9.30%	7.24%	31.46%	26.70%
Squirrel	0.87%	1.22%	1.07%	1.63%
Tree - Non ROW	21.68%	17.92%	30.02%	35.97%
Tree - ROW	10.57%	7.71%	20.84%	12.53%
Unknown Cause	7.39%	29.61%	7.76%	13.08%
Wind	0.57%	0.20%	2.03%	0.82%

Corrections to be made

Vegetation to be trimmed this year

4-124

Substation Name and Number DAVIS 4
 Substation Location Delong Rd., Lexington, KY 40515
 Circuit Name and Number DAVIS 124
 Circuit Location East Hickman Road
 Total Circuit Length (Miles) 79.3
 2014 Member Count 632
 Date of last Trim April 2010

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	124.97	1.5584	165.08	3.3212
Bird	0.61%	0.95%	0.00%	0.00%
Deterioration	2.46%	1.99%	1.61%	0.52%
Equipment Fault	46.76%	49.41%	73.90%	87.23%
Ice/Snow	1.15%	1.14%	0.00%	0.00%
Large Animal	0.03%	0.04%	0.00%	0.00%
Lightning	10.07%	5.31%	0.41%	0.29%
Overload	0.03%	0.04%	0.00%	0.00%
Public Accident	20.93%	14.19%	0.00%	0.00%
Scheduled	0.06%	0.12%	0.14%	0.24%
Small Animal	0.63%	0.51%	0.66%	0.52%
Squirrel	3.04%	1.83%	10.85%	3.67%
Tree - Non ROW	2.67%	2.70%	2.18%	0.91%
Tree - ROW	5.29%	4.24%	5.76%	4.34%
Unknown Cause	3.08%	15.15%	0.94%	0.67%
Wind	3.18%	2.38%	3.54%	1.62%

Corrections to be made

Equipment fixed at time of outage

5-144

Substation Name and Number FAYETTE1 5
 Substation Location Armstrong Mill, Lexington, KY 40515
 Circuit Name and Number FAYETTE1 144
 Circuit Location Squires Road Right Double Circuit
 Total Circuit Length (Miles) 14.7
 2014 Member Count 684
 Date of last Trim December 2014

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	100.70	0.8690	356.77	2.4371
Bird	0.25%	0.44%	0.00%	0.00%
Deterioration	0.66%	0.44%	0.11%	0.12%
Equipment Fault	7.00%	7.77%	1.93%	3.12%
Lightning	6.95%	9.86%	1.25%	2.10%
Overload	0.06%	0.13%	0.00%	0.00%
Public Accident	0.01%	0.03%	0.00%	0.00%
Scheduled	0.08%	0.07%	0.00%	0.00%
Small Animal	0.85%	1.62%	0.87%	2.28%
Squirrel	12.46%	27.22%	15.72%	42.65%
Tree - Non ROW	0.37%	0.54%	0.52%	0.96%
Tree - ROW	4.80%	5.01%	5.06%	6.60%
Unknown Cause	13.69%	23.22%	0.00%	0.00%
Wind	52.83%	23.65%	74.56%	42.17%

Corrections to be made

Vegetation recently trimmed

5-164

Substation Name and Number FAYETTE1 5
 Substation Location Armstrong Mill, Lexington, KY 40515
 Circuit Name and Number FAYETTE1 164
 Circuit Location Armstrong Mill
 Total Circuit Length (Miles) 7.8
 2014 Member Count 807
 Date of last Trim October 2014

Total Minutes/Frequency	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
	58.92	0.6890	81.71	0.6530
Bird	0.13%	0.29%	0.00%	0.00%
Deterioration	0.44%	0.36%	1.24%	0.76%
Equipment Fault	10.25%	4.42%	31.60%	18.03%
Lightning	16.25%	16.58%	0.00%	0.00%
Overload	0.16%	0.29%	0.00%	0.00%
Public Accident	15.36%	28.56%	0.00%	0.00%
Scheduled	0.73%	0.36%	0.00%	0.00%
Small Animal	5.44%	4.24%	0.70%	0.38%
Squirrel	0.56%	0.90%	0.50%	1.52%
Tree - ROW	42.14%	31.76%	48.87%	40.99%
Unknown Cause	7.92%	11.62%	16.97%	37.76%
Wind	0.24%	0.32%	0.12%	0.57%

Corrections to be made

Vegetation very recently trimmed

Substation Name and Number FAYETTE1 5
 Substation Location Armstrong Mill, Lexington, KY 40515
 Circuit Name and Number FAYETTE1 174
 Circuit Location Squires Road Left Double Circuit
 Total Circuit Length (Miles) 7.1
 2014 Member Count 547
 Date of last Trim October 2014

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	34.38	0.4618	105.17	1.4899
Bird	0.94%	0.79%	0.00%	0.00%
Deterioration	3.56%	2.61%	0.00%	0.00%
Equipment Fault	13.57%	9.11%	16.92%	10.55%
Lightning	1.21%	0.63%	1.97%	0.98%
Public Accident	1.70%	0.16%	0.00%	0.00%
Scheduled	0.30%	0.55%	0.00%	0.00%
Small Animal	6.16%	5.46%	8.48%	5.89%
Squirrel	5.98%	8.08%	3.44%	5.64%
Tree - Non ROW	35.64%	47.51%	56.14%	68.96%
Tree - ROW	14.94%	9.03%	11.39%	6.38%
Unknown Cause	8.81%	11.88%	0.00%	0.00%
Vandalism	0.33%	0.24%	0.00%	0.00%
Wind	6.88%	3.96%	1.65%	1.60%

Corrections to be made Vegetation very recently trimmed

36-114

Substation Name and Number HEADQUARTERS 36
 Substation Location Saltwell Hedquarters, Rd., Carlisle, KY 40311
 Circuit Name and Number HEADQUARTERS 114
 Circuit Location Authur Pike
 Total Circuit Length (Miles) 27.4
 2014 Member Count 157
 Date of last Trim August 2011

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	111.43	1.1286	199.55	1.1592
Bird	1.05%	2.03%	0.70%	2.20%
Deterioration	36.24%	22.80%	93.74%	85.71%
Equipment Fault	2.61%	2.37%	0.00%	0.00%
Large Animal	1.04%	0.90%	2.91%	4.40%
Lightning	19.41%	20.82%	0.76%	3.30%
Power Supplier	20.37%	34.37%	0.00%	0.00%
Sag/Clearance	1.59%	2.71%	0.00%	0.00%
Scheduled	1.48%	2.82%	0.31%	0.55%
Small Animal	0.69%	0.90%	1.14%	2.75%
Squirrel	0.09%	0.11%	0.00%	0.00%
Tree - Non ROW	11.08%	3.95%	0.00%	0.00%
Tree - ROW	1.19%	1.81%	0.00%	0.00%
Unknown Cause	2.83%	3.95%	0.43%	1.10%
Wind	0.25%	0.34%	0.00%	0.00%

Corrections to be made

Increased number of protection devices on this circuit in 2015

9-144

Substation Name and Number HICKORY PLAINS 9
 Substation Location Old US 25, Berea, KY 40403
 Circuit Name and Number HICKORY PLAINS 144
 Circuit Location Silver Creek
 Total Circuit Length (Miles) 21.1
 2014 Member Count 697
 Date of last Trim December 2014

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	35.35	0.5538	44.05	1.1033
Deterioration	5.55%	2.75%	0.00%	0.00%
Equipment Fault	10.70%	5.91%	0.00%	0.00%
Large Animal	0.15%	0.16%	0.00%	0.00%
Lightning	3.83%	3.78%	0.69%	0.13%
Overload	1.46%	1.04%	5.86%	2.60%
Public Accident	1.78%	0.47%	7.12%	1.17%
Small Animal	8.85%	9.43%	1.27%	0.91%
Squirrel	1.38%	0.83%	5.42%	1.95%
Tree - Non ROW	5.22%	2.07%	1.26%	1.17%
Tree - ROW	19.47%	36.58%	78.11%	91.81%
Unknown Cause	41.51%	36.68%	0.13%	0.13%
Wind	0.10%	0.31%	0.13%	0.13%

Corrections to be made

Vegetation very recently trimmed

2-114

Substation Name and Number HOLLOWAY 2
 Substation Location Harrodsburg Rd., Nicholasville, KY 40356
 Circuit Name and Number HOLLOWAY 114
 Circuit Location Clear Creek/Murphy's Lane
 Total Circuit Length (Miles) 36.2
 2014 Member Count 324
 Date of last Trim October 2011

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	53.89	0.6405	102.65	1.1914
Bird	3.84%	5.78%	0.00%	0.00%
Deterioration	0.33%	0.67%	0.00%	0.00%
Equipment Fault	6.49%	6.84%	11.30%	11.92%
Lightning	13.54%	7.42%	0.40%	0.26%
Power Supplier	21.77%	29.07%	0.00%	0.00%
Public Accident	32.55%	30.84%	83.24%	82.12%
Scheduled	0.23%	0.29%	0.60%	0.78%
Small Animal	1.62%	2.41%	0.69%	1.30%
Squirrel	0.44%	0.39%	1.17%	1.04%
Tree - Non ROW	8.56%	3.66%	0.00%	0.00%
Tree - ROW	0.08%	0.10%	0.20%	0.26%
Unknown Cause	8.04%	10.41%	0.45%	0.78%
Wind	2.50%	2.12%	1.95%	1.55%

Corrections to be made

No correction to be made at this time

Substation Name and Number HOLLOWAY 2
 Substation Location Harrodsburg Rd., Nicholasville, KY 40356
 Circuit Name and Number HOLLOWAY 134
 Circuit Location Southland Christian Church
 Total Circuit Length (Miles) 26.4
 2014 Member Count 370
 Date of last Trim December 2013

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	90.74	1.3165	168.97	2.1622
Bird	4.64%	5.54%	0.00%	0.00%
Deterioration	1.66%	1.97%	0.00%	0.00%
Equipment Fault	4.79%	3.61%	8.36%	8.50%
Ice/Snow	0.17%	0.04%	0.00%	0.00%
Lightning	18.38%	18.93%	0.42%	0.38%
Overload	1.87%	2.14%	1.51%	2.75%
Power Supplier	12.93%	14.14%	0.00%	0.00%
Public Accident	3.22%	0.66%	0.00%	0.00%
Sag/Clearance	11.55%	13.96%	31.00%	42.50%
Scheduled	0.57%	1.23%	0.00%	0.00%
Small Animal	1.95%	1.97%	1.50%	2.13%
Squirrel	0.13%	0.29%	0.00%	0.00%
Tree - Non ROW	21.31%	14.37%	57.21%	43.75%
Tree - ROW	8.78%	14.08%	0.00%	0.00%
Unknown Cause	8.01%	7.02%	0.00%	0.00%

Corrections to be made

Repaired clearance issue at time of outage

39-104

Substation Name and Number JACKSONVILLE 39
 Substation Location Russell Cave Rd., Cynthiana, KY 41031
 Circuit Name and Number JACKSONVILLE 104
 Circuit Location Broadwell
 Total Circuit Length (Miles) 26.5
 2014 Member Count 176
 Date of last Trim April 2014

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	64.68	1.0500	42.77	1.2045
Bird	0.15%	0.22%	0.00%	0.00%
Deterioration	7.16%	7.47%	0.00%	0.00%
Equipment Fault	15.77%	21.86%	0.00%	0.00%
Lightning	22.05%	12.77%	13.87%	8.49%
Public Accident	8.99%	3.35%	0.00%	0.00%
Small Animal	4.41%	5.74%	1.38%	1.42%
Squirrel	0.15%	0.22%	0.60%	0.47%
Tree - Non ROW	9.86%	18.40%	74.53%	80.19%
Tree - ROW	0.39%	0.11%	0.00%	0.00%
Unknown Cause	30.63%	29.76%	9.62%	9.43%
Wind	0.44%	0.11%	0.00%	0.00%

Corrections to be made

Vegetation recently trimmed

39-114

Substation Name and Number JACKSONVILLE 39
 Substation Location Russell Cave Rd., Cynthiana, KY 41031
 Circuit Name and Number JACKSONVILLE 114
 Circuit Location Bourbon Acres
 Total Circuit Length (Miles) 90.3
 2014 Member Count 622
 Date of last Trim August 2013

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	144.12	1.7659	163.63	3.0048
Bird	0.63%	0.58%	0.00%	0.00%
Deterioration	10.74%	7.94%	2.70%	1.82%
Equipment Fault	2.56%	1.69%	1.10%	0.48%
Large Animal	1.93%	1.11%	8.45%	3.21%
Lightning	38.10%	32.30%	6.93%	4.82%
Public Accident	2.20%	1.44%	0.00%	0.00%
Sag/Clearance	4.69%	10.92%	20.56%	32.00%
Scheduled	1.30%	1.60%	1.20%	1.34%
Small Animal	2.66%	2.17%	0.47%	0.32%
Squirrel	1.11%	0.87%	0.12%	0.11%
Tree - Non ROW	12.13%	14.79%	14.63%	11.18%
Tree - ROW	7.11%	3.90%	11.24%	3.37%
Unknown Cause	4.63%	5.43%	7.29%	5.99%
Wind	10.19%	15.26%	25.31%	35.37%

Corrections to be made

Conductor Sag issue fixed at time of outage

34-114

Substation Name and Number LEES_LICK 34
 Substation Location HWY 1842, Cynthiana, KY 41031
 Circuit Name and Number LEES_LICK 114
 Circuit Location White Oak
 Total Circuit Length (Miles) 55.5
 2014 Member Count 448
 Date of last Trim December 2009

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	67.00	1.0172	90.29	1.1987
Bird	1.21%	1.62%	1.97%	2.05%
Deterioration	0.26%	0.13%	0.00%	0.00%
Equipment Fault	2.51%	1.67%	5.83%	5.40%
Ice/Snow	0.15%	0.04%	0.00%	0.00%
Lightning	28.44%	19.27%	23.37%	13.22%
Overload	0.60%	0.97%	0.00%	0.00%
Power Supplier	23.33%	36.01%	0.00%	0.00%
Public Accident	3.99%	2.63%	0.00%	0.00%
Sag/Clearance	0.22%	0.18%	0.83%	0.74%
Scheduled	0.02%	0.04%	0.07%	0.19%
Small Animal	1.99%	2.11%	0.33%	0.37%
Squirrel	0.06%	0.09%	0.00%	0.00%
Tree - Non ROW	5.84%	3.69%	0.32%	0.19%
Unknown Cause	9.73%	9.96%	0.54%	0.74%
Wind	21.63%	21.59%	66.74%	77.09%

Corrections to be made

Single outage caused by wind skewing statistics
 No corrections to be made at this time

34-124

Substation Name and Number LEES_LICK 34
Substation Location HWY 1842, Cynthiana, KY 41031
Circuit Name and Number LEES_LICK 124
Circuit Location Leesburg
Total Circuit Length (Miles) 13.0
2014 Member Count 156
Date of last Trim June 2010

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	147.47	1.2716	165.78	1.9872
Bird	0.22%	0.50%	0.41%	0.65%
Deterioration	4.82%	7.06%	0.00%	0.00%
Equipment Fault	6.87%	6.65%	24.68%	14.84%
Lightning	71.78%	42.85%	68.94%	65.48%
Power Supplier	10.48%	29.02%	0.00%	0.00%
Public Accident	3.99%	10.08%	5.83%	18.71%
Scheduled	1.32%	2.62%	0.00%	0.00%
Small Animal	0.52%	1.21%	0.14%	0.32%

Corrections to be made

No corrections to be made at this time

25-104

Substation Name and Number MERCER_CO 25
Substation Location Industrial Park Drive, Harrodsburg, KY 40330
Circuit Name and Number MERCER_CO 104
Circuit Location Mercer County Schools
Total Circuit Length (Miles) 1.2
2014 Member Count 20
Date of last Trim 2010

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	29.05	0.4510	34.20	0.9500
Deterioration	1.93%	2.22%	0.00%	0.00%
Equipment Fault	35.35%	17.90%	0.00%	0.00%
Lightning	13.39%	6.65%	0.00%	0.00%
Power Supplier	24.91%	50.90%	100.00%	100.00%
Small Animal	1.62%	2.22%	0.00%	0.00%
Squirrel	2.58%	2.22%	0.00%	0.00%
Unknown Cause	20.22%	17.90%	0.00%	0.00%

Corrections to be made No corrections to be made at this time

25-114

Substation Name and Number MERCER_CO 25
Substation Location Industrial Park Drive, Harrodsburg, KY 40330
Circuit Name and Number MERCER_CO 114
Circuit Location Bohon Road
Total Circuit Length (Miles) 25.4
2014 Member Count 253
Date of last Trim November 2014

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	39.30	0.4537	166.57	1.7233
Bird	10.23%	10.80%	0.00%	0.00%
Deterioration	34.41%	14.46%	40.28%	18.81%
Equipment Fault	0.78%	0.51%	0.35%	0.46%
Large Animal	0.06%	0.17%	0.00%	0.00%
Lightning	4.14%	2.27%	4.88%	2.98%
Power Supplier	27.36%	52.63%	31.10%	57.80%
Small Animal	0.50%	0.52%	0.59%	0.69%
Squirrel	0.25%	0.35%	0.29%	0.46%
Unknown Cause	3.93%	5.04%	0.88%	1.38%
Wind	18.34%	13.24%	21.64%	17.43%

Corrections to be made Power Supplier, no corrections to be made at this time

38-124

Substation Name and Number MILLERSBURG 38
 Substation Location Miller Station Rd., Carlisle, KY 40311
 Circuit Name and Number MILLERSBURG 124
 Circuit Location Miller Station Road
 Total Circuit Length (Miles) 34.3
 2014 Member Count 364
 Date of last Trim April 2010

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	126.14	1.2922	185.76	2.1099
Bird	0.47%	0.94%	0.00%	0.00%
Deterioration	6.80%	6.59%	0.05%	0.13%
Equipment Fault	20.58%	16.07%	29.27%	16.54%
Large Animal	0.03%	0.04%	0.00%	0.00%
Lightning	5.72%	5.14%	0.22%	0.26%
Overload	0.31%	0.34%	0.80%	0.65%
Power Supplier	16.83%	29.59%	0.00%	0.00%
Public Accident	2.40%	2.72%	0.00%	0.00%
Sag/Clearance	0.84%	4.68%	2.86%	14.32%
Scheduled	0.60%	2.59%	2.05%	7.94%
Small Animal	0.81%	1.28%	0.00%	0.00%
Squirrel	0.71%	1.79%	0.15%	0.26%
Tree - Non ROW	19.28%	8.89%	5.79%	5.73%
Unknown Cause	0.06%	0.13%	0.17%	0.26%
Vandalism	12.34%	14.92%	41.90%	45.70%
Wind	12.20%	4.29%	16.72%	8.20%

Corrections to be made

No corrections to be made at this time

7-104

Substation Name and Number NEWBY 7
 Substation Location Maple Grove Rd., Richmond, KY 40475
 Circuit Name and Number NEWBY 104
 Circuit Location Hickory Hill
 Total Circuit Length (Miles) 18.1
 2014 Member Count 256
 Date of last Trim January 2012

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	142.67	1.2102	143.84	1.0469
Bird	1.07%	2.84%	0.00%	0.00%
Deterioration	0.04%	0.13%	0.20%	0.75%
Equipment Fault	5.32%	3.68%	3.78%	7.09%
Lightning	4.16%	4.13%	2.61%	4.85%
Overload	0.03%	0.06%	0.00%	0.00%
Power Supplier	5.17%	15.64%	0.00%	0.00%
Small Animal	3.55%	6.39%	0.00%	0.00%
Squirrel	8.48%	15.61%	0.00%	0.00%
Tree - Non ROW	68.52%	46.67%	93.41%	87.31%
Unknown Cause	3.15%	4.20%	0.00%	0.00%
Wind	0.50%	0.65%	0.00%	0.00%

Corrections to be made

No corrections to be made at this time

7-114

Substation Name and Number NEWBY 7
Substation Location Maple Grove Rd., Richmond, KY 40475
Circuit Name and Number NEWBY 114
Circuit Location Baldwin
Total Circuit Length (Miles) 19.6
2014 Member Count 128
Date of last Trim August 2014

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	173.14	1.5946	343.68	2.0625
Deterioration	23.14%	12.05%	58.29%	46.59%
Equipment Fault	20.39%	8.82%	22.33%	16.29%
Lightning	22.98%	25.48%	10.68%	20.45%
Power Supplier	4.26%	11.87%	0.00%	0.00%
Scheduled	0.13%	0.20%	0.00%	0.00%
Small Animal	5.17%	7.15%	0.00%	0.00%
Squirrel	6.95%	11.80%	0.00%	0.00%
Tree - Non ROW	10.89%	14.80%	0.00%	0.00%
Tree - ROW	3.20%	3.92%	7.18%	12.12%
Unknown Cause	2.89%	3.92%	1.53%	4.55%

Corrections to be made

Vegetation recently trimmed
No further action to be taken at this time

7-124

Substation Name and Number NEWBY 7
 Substation Location Maple Grove Rd., Richmond, KY 40475
 Circuit Name and Number NEWBY 124
 Circuit Location Shallow Ford
 Total Circuit Length (Miles) 13.3
 2014 Member Count 148
 Date of last Trim January 2012

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	168.38	1.5855	325.09	1.2432
Bird	0.24%	0.51%	0.00%	0.00%
Equipment Fault	9.84%	13.38%	0.00%	0.00%
Large Animal	0.14%	0.34%	0.00%	0.00%
Lightning	2.62%	3.58%	1.37%	7.61%
Power Supplier	4.38%	11.93%	0.00%	0.00%
Public Accident	2.74%	6.05%	2.16%	7.07%
Small Animal	0.33%	0.51%	0.00%	0.00%
Squirrel	7.40%	12.21%	0.51%	1.63%
Tree - Non ROW	47.21%	26.08%	95.80%	83.15%
Tree - ROW	1.22%	0.85%	0.00%	0.00%
Unknown Cause	0.06%	0.09%	0.16%	0.54%
Wind	23.82%	24.46%	0.00%	0.00%

Corrections to be made No corrections to be made at this time

1-124

Substation Name and Number NICHOLASVILLE 1-
 Substation Location Bethany Rd., Nicholasville, KY 40356
 Circuit Name and Number NICHOLASVILLE 124
 Circuit Location Spears
 Total Circuit Length (Miles) 27.7
 2014 Member Count 365
 Date of last Trim September 2011

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	105.38	0.7797	345.47	2.1233
Bird	1.05%	3.09%	0.00%	0.00%
Deterioration	3.14%	4.50%	0.00%	0.00%
Equipment Fault	28.28%	26.00%	41.63%	45.94%
Ice/Snow	0.55%	0.42%	0.00%	0.00%
Lightning	39.40%	29.80%	55.46%	47.48%
Public Accident	4.05%	4.08%	0.00%	0.00%
Small Animal	1.52%	3.65%	1.71%	4.77%
Squirrel	0.31%	0.56%	0.47%	1.03%
Tree - Non ROW	0.34%	0.21%	0.51%	0.39%
Tree - ROW	16.77%	18.97%	0.00%	0.00%
Unknown Cause	4.26%	7.87%	0.00%	0.00%
Wind	0.32%	0.84%	0.21%	0.39%

Corrections to be made

Equipment repaired at time of outage
 No corrections to be made at this time

1-144

Substation Name and Number NICHOLASVILLE 1
Substation Location Bethany Rd., Nicholasville, KY 40356
Circuit Name and Number NICHOLASVILLE 144
Circuit Location Brittany Heights
Total Circuit Length (Miles) 4.5
2014 Member Count 24
Date of last Trim November 2014

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	39.13	0.4500	47.46	0.4583
Bird	10.99%	22.22%	3.42%	9.09%
Deterioration	24.56%	12.96%	0.00%	0.00%
Equipment Fault	2.66%	1.85%	0.00%	0.00%
Lightning	32.48%	20.37%	76.12%	54.55%
Small Animal	21.19%	31.48%	5.44%	18.18%
Squirrel	1.13%	1.85%	4.65%	9.09%
Tree - ROW	2.51%	1.85%	10.36%	9.09%
Unknown Cause	4.47%	7.41%	0.00%	0.00%

Corrections to be made

No corrections to be made at this time

22-104

Substation Name and Number NINEVAH 22
 Substation Location Clifton Rd., Lawrenceburg, KY 40342
 Circuit Name and Number NINEVAH 104
 Circuit Location Fox Creek Office
 Total Circuit Length (Miles) 35.0
 2014 Member Count 394
 Date of last Trim March 2013

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	158.32	1.5194	264.07	1.5102
Bird	1.61%	2.31%	0.00%	0.00%
Deterioration	3.46%	3.43%	0.05%	0.34%
Equipment Fault	21.44%	13.70%	0.00%	0.00%
Lightning	2.94%	1.90%	0.00%	0.00%
Power Supplier	27.00%	12.96%	80.93%	65.21%
Scheduled	0.63%	1.37%	0.08%	0.17%
Small Animal	0.23%	0.50%	0.69%	2.52%
Squirrel	9.92%	15.37%	1.62%	6.89%
Tree - Non ROW	9.19%	9.15%	7.45%	12.10%
Tree - ROW	6.67%	4.66%	0.00%	0.00%
Unknown Cause	14.54%	33.41%	2.31%	6.72%
Wind	2.31%	1.24%	6.89%	6.05%

Corrections to be made

Power supplier, no corrections to be made at this time

22-114

Substation Name and Number NINEVAH 22
Substation Location Clifton Rd., Lawrenceburg, KY 40342
Circuit Name and Number NINEVAH 114
Circuit Location Walker Lane
Total Circuit Length (Miles) 13.0
2014 Member Count 119
Date of last Trim December 2011

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	64.47	0.7629	126.08	1.0420
Bird	0.97%	2.20%	0.00%	0.00%
Deterioration	1.58%	0.64%	0.00%	0.00%
Equipment Fault	29.16%	24.59%	0.00%	0.00%
Lightning	1.05%	2.64%	0.00%	0.00%
Power Supplier	38.77%	26.43%	99.12%	96.77%
Small Animal	0.21%	0.44%	0.00%	0.00%
Squirrel	0.31%	0.66%	0.00%	0.00%
Tree - ROW	6.52%	10.52%	0.00%	0.00%
Unknown Cause	21.38%	31.86%	0.88%	3.23%

Corrections to be made

Power Supplier, no corrections to be made at this time

22-134

Substation Name and Number NINEVAH 22
 Substation Location Clifton Rd., Lawrenceburg, KY 40342
 Circuit Name and Number NINEVAH 134
 Circuit Location Lanes Mill
 Total Circuit Length (Miles) 58.1
 2014 Member Count 957
 Date of last Trim December 2011

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	110.41	1.2450	255.17	1.4984
Bird	0.29%	0.55%	0.02%	0.07%
Deterioration	4.62%	3.36%	0.42%	0.98%
Equipment Fault	11.60%	23.94%	3.66%	6.83%
Fire	0.02%	0.03%	0.04%	0.14%
Ice/Snow	0.18%	0.24%	0.00%	0.00%
Large Animal	0.02%	0.02%	0.00%	0.00%
Lightning	13.64%	13.87%	3.59%	3.97%
Power Supplier	39.35%	15.86%	85.13%	65.90%
Public Accident	8.22%	17.58%	0.00%	0.00%
Scheduled	0.18%	1.44%	0.23%	2.79%
Small Animal	2.80%	4.03%	3.45%	9.76%
Squirrel	0.55%	0.99%	0.66%	2.79%
Tree - Non ROW	5.16%	6.23%	1.55%	3.49%
Tree - ROW	6.21%	4.45%	0.88%	2.51%
Unknown Cause	4.73%	6.64%	0.33%	0.70%
Wind	2.44%	0.77%	0.03%	0.07%

Corrections to be made

Power Supplier, no corrections to be made at this time

15-104

Substation Name and Number NORTH MADISON 15
 Substation Location Jacks Creek Pike, Richmond KY 40475
 Circuit Name and Number NORTH MADISON 104
 Circuit Location Shiloh Point
 Total Circuit Length (Miles) 12.0
 2014 Member Count 184
 Date of last Trim March 2010

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	57.38	0.8459	126.83	1.2065
Bird	0.57%	0.77%	0.00%	0.00%
Deterioration	6.39%	3.47%	14.46%	12.16%
Equipment Fault	35.32%	22.62%	79.91%	79.28%
Lightning	7.77%	5.01%	3.30%	4.05%
Overload	23.37%	21.43%	0.00%	0.00%
Power Supplier	11.40%	19.34%	0.00%	0.00%
Public Accident	0.64%	0.77%	0.00%	0.00%
Small Animal	3.15%	3.85%	1.92%	4.05%
Tree - Non ROW	1.42%	0.51%	0.00%	0.00%
Unknown Cause	0.24%	0.26%	0.41%	0.45%
Wind	9.72%	21.97%	0.00%	0.00%

Corrections to be made Equipment repaired at time of outage
 No corrections to be made at this time

28-144

Substation Name and Number POWELL TAYLOR 28
Substation Location 1024 Powell Taylor Rd., Lawrenceburg, KY 40342
Circuit Name and Number POWELL TAYLOR 144
Circuit Location Powell Taylor/Glenview
Total Circuit Length (Miles) 9.7
2014 Member Count 180
Date of last Trim January 2012

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	28.81	0.4454	45.33	0.3722
Bird	1.74%	2.49%	0.00%	0.00%
Deterioration	10.98%	9.48%	7.77%	16.42%
Equipment Fault	2.97%	4.74%	2.37%	1.49%
Lightning	9.57%	9.73%	0.00%	0.00%
Power Supplier	8.16%	40.62%	0.00%	0.00%
Small Animal	4.30%	6.49%	0.00%	0.00%
Squirrel	3.41%	4.74%	2.99%	5.97%
Tree - Non ROW	7.56%	0.75%	0.00%	0.00%
Tree - ROW	27.52%	12.97%	86.88%	76.12%
Unknown Cause	3.12%	5.24%	0.00%	0.00%
Wind	20.67%	2.74%	0.00%	0.00%

Corrections to be made

No corrections to be made at this time

23-104

Substation Name and Number SINAI 23
 Substation Location Hwy 62, Lawrenceburg, KY 40342
 Circuit Name and Number SINAI 104
 Circuit Location Buntain School Road
 Total Circuit Length (Miles) 26.7
 2014 Member Count 201
 Date of last Trim January 2012

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	128.75	1.6588	144.70	2.6161
Bird	2.18%	4.56%	0.00%	0.00%
Deterioration	6.84%	4.98%	4.83%	3.80%
Equipment Fault	13.70%	8.34%	4.80%	3.99%
Ice/Snow	3.31%	2.04%	0.00%	0.00%
Lightning	13.49%	9.96%	19.68%	16.16%
Power Supplier	22.15%	34.83%	40.61%	38.22%
Public Accident	0.04%	0.06%	0.19%	0.19%
Sag/Clearance	1.04%	0.78%	0.00%	0.00%
Scheduled	1.15%	4.55%	5.10%	14.42%
Small Animal	12.87%	12.15%	0.54%	0.76%
Squirrel	0.13%	0.18%	0.21%	0.38%
Tree - Non ROW	3.96%	5.34%	15.19%	13.88%
Unknown Cause	17.87%	11.28%	8.85%	8.18%
Wind	1.25%	0.96%	0.00%	0.00%

Corrections to be made

Power supplier, no corrections to be made at this time

23-134

Substation Name and Number SINAI 23
 Substation Location Hwy 62, Lawrenceburg, KY 40342
 Circuit Name and Number SINAI 134
 Circuit Location Ashby Road
 Total Circuit Length (Miles) 60.0
 2014 Member Count 458
 Date of last Trim April 2013

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	111.24	1.4064	114.99	1.5745
Bird	0.85%	0.87%	0.00%	0.00%
Deterioration	0.53%	0.43%	0.58%	0.69%
Equipment Fault	2.29%	2.83%	0.36%	0.28%
Ice/Snow	5.61%	1.15%	0.00%	0.00%
Lightning	14.77%	14.31%	25.92%	22.88%
Power Supplier	15.07%	26.86%	0.00%	0.00%
Public Accident	0.10%	0.06%	0.48%	0.28%
Sag/Clearance	0.06%	0.06%	0.00%	0.00%
Scheduled	1.48%	5.10%	6.04%	22.07%
Small Animal	15.02%	14.57%	2.35%	3.33%
Squirrel	0.19%	0.28%	0.22%	0.28%
Tree - Non ROW	15.50%	9.13%	12.93%	5.27%
Tree - ROW	0.06%	0.09%	0.00%	0.00%
Unknown Cause	10.10%	10.25%	28.78%	26.63%
Wind	18.37%	14.00%	22.35%	18.30%

Corrections to be made

No corrections to be made at this time

12-124

Substation Name and Number SOUTH ELKHORN 12
Substation Location 3251 Keene Rd., Nicholasville, KY 40356
Circuit Name and Number SOUTH ELKHORN 124
Circuit Location Champions
Total Circuit Length (Miles) 30.5
2014 Member Count 377
Date of last Trim January 2011

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	76.19	0.7634	179.73	1.1034
Bird	1.36%	2.36%	0.00%	0.00%
Equipment Fault	4.00%	5.07%	0.00%	0.00%
Lightning	19.66%	20.99%	0.06%	0.24%
Public Accident	7.65%	25.02%	0.51%	1.44%
Scheduled	0.33%	0.28%	0.00%	0.00%
Small Animal	1.63%	2.36%	0.07%	0.24%
Squirrel	1.65%	2.78%	0.30%	1.20%
Tree - Non ROW	10.95%	7.51%	8.05%	4.33%
Tree - ROW	42.40%	26.27%	89.64%	90.38%
Unknown Cause	3.75%	5.21%	1.37%	2.16%
Wind	6.64%	2.15%	0.00%	0.00%

Corrections to be made

Vegetation to be trimmed in 2015

14-114

Substation Name and Number SOUTH JESSAMINE 14
 Substation Location 1307 Chrisman Mill Rd., Nicholasville, KY 40356
 Circuit Name and Number SOUTH JESSAMINE 114
 Circuit Location Locust Heights/Southbrook
 Total Circuit Length (Miles) 23.4
 2014 Member Count 798
 Date of last Trim March 2011

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	71.05	0.8625	120.73	0.9787
Bird	2.03%	3.60%	0.06%	0.26%
Deterioration	0.71%	0.64%	0.22%	0.26%
Equipment Fault	22.62%	41.56%	0.12%	0.13%
Ice/Snow	0.19%	0.20%	0.00%	0.00%
Lightning	33.37%	20.86%	0.00%	0.00%
Public Accident	0.27%	0.20%	0.00%	0.00%
Sag/Clearance	33.38%	21.65%	98.21%	95.39%
Scheduled	0.02%	0.06%	0.00%	0.00%
Small Animal	1.69%	2.73%	1.26%	3.71%
Squirrel	0.04%	0.06%	0.12%	0.26%
Unknown Cause	5.68%	8.43%	0.00%	0.00%

Corrections to be made Clearance issue fixed at time of outage
 No corrections to be made at this time

14-124

Substation Name and Number SOUTH JESSAMINE 14
 Substation Location 1307 Chrisman Mill Rd., Nicholasville, KY 40356
 Circuit Name and Number SOUTH JESSAMINE 124
 Circuit Location Sulphur Well
 Total Circuit Length (Miles) 56.2
 2014 Member Count 494
 Date of last Trim August 2011

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	120.46	1.0521	154.68	1.5121
Bird	1.46%	4.00%	1.13%	3.35%
Deterioration	2.43%	3.35%	0.29%	0.54%
Equipment Fault	11.65%	19.23%	0.95%	0.94%
Fire	10.59%	8.04%	41.24%	27.98%
Large Animal	0.02%	0.04%	0.10%	0.13%
Lightning	10.26%	22.70%	0.26%	0.80%
Overload	0.02%	0.04%	0.09%	0.13%
Public Accident	56.87%	30.63%	49.30%	53.55%
Sag/Clearance	0.30%	1.04%	1.17%	3.61%
Scheduled	0.04%	0.08%	0.00%	0.00%
Small Animal	1.35%	3.19%	1.88%	3.75%
Squirrel	0.27%	0.50%	0.80%	1.20%
Tree - Non ROW	1.60%	2.08%	1.91%	2.68%
Tree - ROW	0.67%	1.19%	0.89%	1.34%
Unknown Cause	2.35%	3.73%	0.00%	0.00%
Wind	0.03%	0.04%	0.00%	0.00%

Corrections to be made

No corrections to be performed at this time

24-114

Substation Name and Number VAN_ARSDALL 24
 Substation Location 104 Bardstown Rd., Harrodsburg, KY 40330
 Circuit Name and Number VAN_ARSDALL 114
 Circuit Location Shakertown
 Total Circuit Length (Miles) 124.2
 2014 Member Count 906
 Date of last Trim December 2014

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	148.83	1.5306	222.61	3.49
Bird	0.72%	1.34%	0.93%	1.11%
Contractor	0.03%	0.07%	0.10%	0.16%
Deterioration	3.26%	2.54%	0.32%	0.35%
Equipment Fault	4.19%	3.14%	3.28%	1.83%
Ice/Snow	3.54%	1.57%	0.00%	0.00%
Lightning	36.34%	26.43%	55.26%	29.56%
Overload	0.15%	0.22%	0.51%	0.47%
Power Supplier	11.11%	22.73%	24.08%	27.92%
Public Accident	0.22%	0.22%	0.15%	0.09%
Sag/Clearance	0.01%	0.01%	0.00%	0.00%
Scheduled	2.36%	16.43%	5.04%	28.71%
Small Animal	0.43%	0.91%	0.38%	0.76%
Squirrel	0.54%	0.79%	1.20%	1.14%
Tree - Non ROW	22.45%	11.97%	1.24%	0.63%
Tree - ROW	1.70%	1.57%	3.33%	2.50%
Unknown Cause	3.86%	5.87%	4.19%	4.77%
Wind	9.08%	4.18%	0.00%	0.00%

Corrections to be made

No corrections to be made at this time

24-124

Substation Name and Number VAN_ARSDALL 24
 Substation Location 104 Bardstown Rd., Harrodsburg, KY 40330
 Circuit Name and Number VAN_ARSDALL 124
 Circuit Location Bohon Road
 Total Circuit Length (Miles) 37.9
 2014 Member Count 335
 Date of last Trim April 2013

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	134.88	1.6619	239.31	3.3121
Bird	0.12%	0.18%	0.00%	0.00%
Deterioration	5.47%	4.38%	0.14%	0.27%
Equipment Fault	10.16%	7.00%	17.05%	10.18%
Ice/Snow	0.08%	0.07%	0.00%	0.00%
Lightning	54.92%	41.40%	51.93%	31.77%
Power Supplier	12.12%	20.73%	22.02%	28.93%
Public Accident	4.42%	3.84%	0.00%	0.00%
Scheduled	1.33%	9.02%	3.76%	22.62%
Small Animal	1.53%	2.05%	2.74%	3.33%
Squirrel	0.40%	0.68%	0.00%	0.00%
Tree - Non ROW	1.20%	1.51%	0.23%	0.27%
Tree - ROW	0.05%	0.07%	0.00%	0.00%
Unknown Cause	6.63%	7.87%	2.03%	2.52%
Vandalism	0.00%	0.00%	0.00%	0.00%
Wind	1.51%	1.11%	0.10%	0.09%

Corrections to be made

No corrections to be made at this time

24-134

Substation Name and Number VAN_ARSDELL 24
 Substation Location 104 Bardstown Rd., Harrodsburg, KY 40330
 Circuit Name and Number VAN_ARSDELL 134
 Circuit Location Kirkwood
 Total Circuit Length (Miles) 86.8
 2014 Member Count 446
 Date of last Trim October 2009

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	192.35	2.2787	392.04	4.0099
Bird	0.48%	0.91%	0.00%	0.00%
Deterioration	6.57%	4.49%	5.01%	3.47%
Equipment Fault	12.76%	16.18%	0.18%	0.22%
Lightning	43.74%	29.45%	72.76%	58.34%
Overload	0.04%	0.04%	0.00%	0.00%
Power Supplier	15.78%	29.72%	18.81%	33.44%
Public Accident	0.24%	0.26%	0.07%	0.11%
Scheduled	0.72%	1.50%	0.63%	1.45%
Small Animal	4.13%	3.15%	0.64%	0.89%
Squirrel	4.56%	6.14%	0.38%	0.84%
Tree - Non ROW	1.12%	0.39%	0.54%	0.11%
Tree - ROW	0.71%	1.08%	0.00%	0.00%
Unknown Cause	4.65%	4.82%	0.98%	1.12%
Wind	4.51%	1.89%	0.00%	0.00%

Corrections to be made

Vegetation to be trimmed this year

24-144

Substation Name and Number VAN_ARSDELL 24
Substation Location 104 Bardstown Rd., Harrodsburg, KY 40330
Circuit Name and Number VAN_ARSDELL 144
Circuit Location Cornishville
Total Circuit Length (Miles) 70.9
2014 Member Count 600
Date of last Trim May 2010

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	144.59	1.3647	198.78	2.5187
Bird	0.41%	0.51%	0.00%	0.00%
Deterioration	0.19%	0.27%	0.06%	0.07%
Equipment Fault	2.43%	1.66%	0.21%	0.13%
Large Animal	0.02%	0.02%	0.00%	0.00%
Lightning	41.88%	40.36%	66.13%	45.61%
Power Supplier	9.36%	21.49%	19.41%	27.86%
Public Accident	7.01%	8.52%	0.00%	0.00%
Scheduled	1.77%	6.11%	5.12%	15.55%
Small Animal	24.69%	7.69%	0.42%	0.40%
Squirrel	2.03%	3.35%	2.05%	3.51%
Tree - Non ROW	5.04%	4.45%	0.00%	0.00%
Tree - ROW	0.45%	0.61%	0.23%	0.07%
Unknown Cause	3.65%	4.42%	6.37%	6.82%
Wind	1.08%	0.54%	0.00%	0.00%

Corrections to be made

Vegetation to be trimmed this year

No further corrections to be made at this time

Substation Name and Number WEST BERA 8
 Substation Location 5350 Walnutmeadow Rd., Berea, KY 40403
 Circuit Name and Number WEST BERA 104
 Circuit Location New Peggy Flats
 Total Circuit Length (Miles) 44.3
 2014 Member Count 729
 Date of last Trim July 2014

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	107.25	1.0250	415.10	3.3621
Bird	2.28%	4.95%	0.00%	0.00%
Deterioration	2.09%	1.82%	1.09%	0.94%
Equipment Fault	1.77%	2.28%	0.15%	0.20%
Lightning	37.75%	28.83%	39.72%	31.70%
Overload	0.06%	0.08%	0.00%	0.00%
Power Supplier	14.01%	18.79%	18.09%	28.64%
Public Accident	28.30%	20.58%	35.05%	29.01%
Scheduled	0.36%	1.31%	0.00%	0.00%
Small Animal	4.51%	8.81%	1.66%	2.77%
Squirrel	0.22%	0.62%	0.02%	0.04%
Tree - Non ROW	0.70%	0.99%	0.35%	0.57%
Tree - ROW	1.71%	2.09%	1.87%	2.65%
Unknown Cause	5.48%	7.90%	2.00%	3.47%
Wind	0.77%	0.96%	0.00%	0.00%

Corrections to be made

No corrections to be made at this time

8-114

Substation Name and Number WEST BEREA 8
Substation Location 5350 Walnutmeadow Rd., Berea, KY 40403
Circuit Name and Number WEST BEREA 114
Circuit Location Days Inn
Total Circuit Length (Miles) 4.0
2014 Member Count 118
Date of last Trim 2009

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	42.12	0.6712	73.42	1.0000
Equipment Fault	50.45%	59.60%	0.00%	0.00%
Lightning	1.19%	0.76%	0.06%	0.85%
Power Supplier	34.84%	29.55%	99.94%	99.15%
Small Animal	13.52%	10.10%	0.00%	0.00%

Corrections to be made No corrections to be made at this time

Substation Name and Number WEST BERA 8
 Substation Location 5350 Walnutmeadow Rd., Berea, KY 40403
 Circuit Name and Number WEST BERA 124
 Circuit Location Dogwood Drive
 Total Circuit Length (Miles) 44.8
 2014 Member Count 1151
 Date of last Trim December 2009

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	103.03	1.3425	256.93	2.7341
Bird	0.59%	0.91%	0.00%	0.00%
Deterioration	0.29%	0.18%	0.02%	0.03%
Equipment Fault	17.58%	14.24%	0.54%	0.32%
Lightning	20.90%	21.29%	17.27%	16.68%
Overload	0.02%	0.03%	0.00%	0.00%
Power Supplier	14.14%	14.28%	28.35%	35.05%
Public Accident	28.96%	29.60%	44.44%	35.37%
Scheduled	0.42%	0.18%	0.04%	0.06%
Small Animal	3.21%	4.58%	0.57%	1.05%
Squirrel	0.33%	0.53%	0.51%	1.11%
Tree - Non ROW	2.69%	2.30%	0.10%	0.16%
Tree - ROW	3.38%	3.59%	5.39%	6.77%
Unknown Cause	1.48%	1.58%	2.23%	2.70%
Wind	6.01%	6.72%	0.56%	0.70%

Corrections to be made

No corrections to be made at this time

8-134

Substation Name and Number WEST BEREA 8
 Substation Location 5350 Walnutmeadow Rd., Berea, KY 40403
 Circuit Name and Number WEST BEREA 134
 Circuit Location Wallacetown
 Total Circuit Length (Miles) 36.6
 2014 Member Count 462
 Date of last Trim January 2010

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	116.36	1.1108	160.27	1.8420
Bird	0.69%	1.17%	0.00%	0.00%
Deterioration	0.43%	1.13%	1.57%	3.41%
Equipment Fault	4.94%	3.90%	0.18%	0.12%
Ice/Snow	4.06%	1.56%	0.00%	0.00%
Lightning	4.05%	4.91%	7.94%	5.41%
Power Supplier	12.44%	17.38%	45.18%	52.41%
Public Accident	9.30%	10.99%	14.81%	17.04%
Scheduled	0.36%	0.27%	0.00%	0.00%
Small Animal	1.69%	2.77%	2.59%	3.53%
Squirrel	0.07%	0.19%	0.00%	0.00%
Tree - Non ROW	14.37%	7.95%	0.00%	0.00%
Tree - ROW	6.30%	4.36%	20.91%	10.22%
Unknown Cause	39.40%	38.93%	6.82%	7.87%
Wind	1.90%	4.48%	0.00%	0.00%

Corrections to be made

No corrections to be made at this time

8-154

Substation Name and Number WEST BEREA 8
 Substation Location 5350 Walnutmeadow Rd., Berea, KY 40403
 Circuit Name and Number WEST BEREA 154
 Circuit Location Walnut Meadow
 Total Circuit Length (Miles) 46.5
 2014 Member Count 237
 Date of last Trim September 2009

Total Minutes/Frequency	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
	70.38	0.7941	158.02	1.8734
Bird	1.97%	2.76%	0.00%	0.00%
Deterioration	21.60%	18.49%	17.19%	15.99%
Equipment Fault	6.50%	10.84%	0.10%	0.23%
Lightning	11.12%	8.40%	2.98%	2.48%
Power Supplier	21.42%	24.34%	47.70%	51.58%
Public Accident	0.50%	0.64%	0.00%	0.00%
Sag/Clearance	3.69%	2.34%	0.00%	0.00%
Scheduled	0.60%	0.64%	0.27%	0.23%
Small Animal	5.34%	7.86%	4.20%	5.18%
Tree - Non ROW	1.75%	1.81%	3.90%	3.83%
Tree - ROW	2.98%	2.23%	5.84%	4.05%
Unknown Cause	15.53%	15.41%	17.53%	15.99%
Wind	6.70%	3.83%	0.29%	0.45%

Corrections to be made

No corrections to be made at this time

Substation Name and Number WEST NICHOLASVILLE 3
 Substation Location 398 Bass Pond Glen Dr., Nicholasville, KY 40356
 Circuit Name and Number WEST NICHOLASVILLE 134
 Circuit Location Loan Oak/Clear Creek
 Total Circuit Length (Miles) 46.6
 2014 Member Count 988
 Date of last Trim March 2013

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	75.66	1.1477	118.98	1.1204
Bird	2.50%	3.32%	0.00%	0.00%
Deterioration	0.59%	0.58%	0.10%	0.18%
Equipment Fault	5.79%	5.01%	8.36%	9.85%
Lightning	1.90%	1.85%	2.73%	2.53%
Overload	0.20%	0.30%	0.29%	0.45%
Power Supplier	21.12%	31.66%	0.00%	0.00%
Public Accident	3.74%	1.85%	0.00%	0.00%
Scheduled	0.16%	0.21%	0.00%	0.00%
Small Animal	1.56%	0.97%	0.47%	1.17%
Squirrel	0.83%	1.04%	0.03%	0.09%
Tree - Non ROW	0.13%	0.19%	0.41%	0.99%
Tree - ROW	3.97%	3.07%	0.75%	1.45%
Unknown Cause	30.19%	33.68%	0.00%	0.00%
Wind	27.30%	16.23%	86.81%	83.11%

Corrections to be made

No corrections to be made at this time

3-154

Substation Name and Number WEST NICHOLASVILLE 3-
Substation Location 398 Bass Pond Glen Dr., Nicholasville, KY 40356
Circuit Name and Number WEST NICHOLASVILLE 154
Circuit Location North Main Street
Total Circuit Length (Miles) 9.5
2014 Member Count 692
Date of last Trim February 2010

	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
Total Minutes/Frequency	21.26	0.3303	11.40	0.4639
Bird	0.04%	0.09%	0.00%	0.00%
Deterioration	0.43%	0.53%	0.00%	0.00%
Equipment Fault	1.66%	1.84%	0.00%	0.00%
Lightning	6.02%	5.60%	0.00%	0.00%
Public Accident	10.39%	27.57%	96.84%	98.13%
Small Animal	1.02%	2.89%	0.00%	0.00%
Squirrel	1.68%	3.50%	3.16%	1.87%
Unknown Cause	78.76%	57.99%	0.00%	0.00%

Corrections to be made

No corrections to be made at this time

3-164

Substation Name and Number WEST NICHOLASVILLE 3-
Substation Location 398 Bass Pond Glen Dr., Nicholasville, KY 40356
Circuit Name and Number WEST NICHOLASVILLE 164
Circuit Location Squire Lake
Total Circuit Length (Miles) 6.3
2014 Member Count 412
Date of last Trim January 2013

Total Minutes/Frequency	5 Year Average		2014	
	SAIDI	SAIFI	SAIDI	SAIFI
	21.78	0.2649	17.66	0.3180
Bird	0.58%	1.28%	0.00%	0.00%
Deterioration	2.96%	4.77%	0.00%	0.00%
Equipment Fault	9.13%	14.48%	46.50%	54.96%
Lightning	2.27%	1.28%	0.00%	0.00%
Public Accident	7.13%	7.15%	43.95%	29.77%
Scheduled	1.37%	0.55%	0.00%	0.00%
Small Animal	0.14%	0.37%	0.00%	0.00%
Squirrel	0.20%	0.73%	1.21%	3.05%
Unknown Cause	75.71%	68.84%	5.17%	9.92%
Wind	0.51%	0.55%	3.17%	2.29%

Corrections to be made

No corrections to be made at this time



**DISTRIBUTION RIGHT-OF-WAY VEGETATION
MANAGEMENT 2015 PLAN/ 2014 PLAN REVIEW**

April 2015

Blue Grass Energy Vegetation Management Plan

2014 Review of Plan Implementation

Blue Grass Energy developed a formal plan to manage the maintenance of vegetation on distribution rights-of-way (ROW) in 2007/2008. The plan's goals were established to provide excellent member service, maintain current tree-related reliability, and look for opportunities to increase production and reduce program cost. These plans were continued and improved into 2014.

As stated in the previously submitted Vegetation Management Plan, the plan may be modified from time-to-time based on performance as measured by tree-related service reliability and evaluations of member satisfaction with service reliability. Specific reliability metrics may include Tree SAIFI, trends in customer minutes interrupted by tree-related causes and tree-caused primary interruptions per 100 line miles as internal benchmarks of program performance over time. A Tree-Caused Outage Report summarizes these reliability criteria and is regularly reviewed and monitored daily. Upon reporting of tree-related outages a field investigation is conducted to determine the root cause.

2012-2015 Vegetation Management Strategy

SCHEDULED MAINTENANCE AND CLEARANCE

Blue Grass Energy provides electric service to over 55,000 members through a network of over 4,600 miles of distribution line. Blue Grass Energy uses a cyclic approach to preventive vegetation management of its electric distribution ROW. Different circuits or portions of circuits may be scheduled on different cycles based on site conditions, sensitivity of the line to interruptions caused by trees or criticality of the line. The maintenance cycle for tree removal, tree pruning or brush control may be the same or different for a given scheduling unit. Following pruning and clearance operations, herbicide application is conducted after one full growing season.

As illustrated in Table 1, Blue Grass Energy completed 25 distribution circuits scheduled in 2014 for a total of 777 miles of distribution line. In 2015, there are 24 distribution circuits, for a total of 718 miles scheduled for completion in 2015. The varying site conditions determine the cost and cause completed miles to vary by year. Of the 2013 maintenance year mileage, 9 circuits consisting of 532 miles were identified for selective herbicide application and completed in 2014. Herbicide application of 7 circuits consisting of 591 miles from the 2014 maintenance year will be completed in 2015.

Table 1. Blue Grass Energy R/W Miles Scheduled vs. Completed

Maintenance Year	2012	2013	2014	2015
Scheduled	893	908	777	718
Completed	761	901	777	TBD

RELIABILITY

In 2008, Blue Grass Energy developed and implemented an outage investigation process to better understand the cause of tree failures. The data was again used in 2014 to identify species failure rates and help plan future scheduled and non scheduled work to eliminate potential outages. The investigation of all tree related outages will continue through 2015 to collect data on major outage categories.

Historical Blue Grass Energy tree caused outages within the right of way are illustrated in Table 2.

Table 2. Number of Tree-Caused Outages within the ROW on the Blue Grass Energy System

Year	2010	2011	2012	2013	2014
TOTALS	121	68	67	65	91

2014 VEGETATION MANAGEMENT PLAN REVIEW

Changes were implemented in 2014 to improve the ROW management plan. The “Distribution Right-Of-Way Vegetation Management Plan” submitted March 2014 reiterated in detail the processes that were built into the plan.

In 2014, all scheduled mileage was completed within the 2014 calendar year.

Listed below are some of the processes used in 2014:

1. Continuation of Formal Contractor Evaluation Program. Each contractor will be rated on nine qualitative categories such as customer complaints, quarterly mileage goals, exceptions/ omissions, quality/standards, tools/equipment, unscheduled interruptions/OSHA LWD, contractor cooperation & communication, crew professionalism, and data accuracy.
2. Yearly Revision of formal program policies and procedures and assurance of consistent implementation throughout the system to include additional detailed requirements.
3. Continued yearly revision of a general 5-6 year maintenance cycle for the system based on collected field data. In areas where standard clearances cannot be consistently achieved (e.g., subdivisions), mid cycle assessments will be conducted and cycles adjusted based on those findings. Recommended cycle lengths are guidelines.
4. ISA Certified Arborist Utility Specialist supervisory personnel have adequate utility vegetation management technical expertise and a qualified ISA Certified Assistant Arborist is on staff.
5. Selective use of herbicides to control resprouting from the stumps of removed deciduous trees.
6. RE-established formal herbicide spray program to control woody species following maintenance pruning.

7. Written notification of property owners of the intent to prune trees and requirement of written permission for "yard" tree removals. We always strive to not allow property owners to influence pruning clearances.
8. The crew labor and equipment complements were adjusted throughout the year to maximize cost effectiveness.
9. Revised and improved the formal work monitoring and completion process. Each circuit is individually and 100 percent audited by ROW supervisory personnel to ensure specifications for clearance and quality are achieved.
10. Records were maintained of key aspects of the ROW vegetation management program to document program performance. This data provides information necessary for ongoing program management and circuit scheduling.

2015 VEGETATION MANAGEMENT PLAN

In addition to continuing the Distribution Right-Of-Way Vegetation Management Plans outlined for 2014 we intend to utilize the following key objectives in the upcoming year:

- Continue Formal Crew Field Audit Evaluation process, at the 100 percent level
- Uphold National Arbor Day Tree Line USA standards
- Continue to uphold ANSI A300 pruning and Z133 safety standards
- Utilization of vegetation management Best Management Practices as defined by the International Society of Arboriculture.
- Continue to evaluate and increase production and quality with established work force.
- Further inspection and reduction of unnecessary reactive maintenance
- Utilize multiple ROW vegetation maintenance contractors
- Continue with formal herbicide spray program to control woody species following maintenance pruning.

Appendix

ROW VEGETATION MAINTENANCE CLEARANCE CYCLE SCHEDULING STRATEGY

The following table summarizes the Blue Grass Energy ROW vegetation maintenance scheduling strategy. Individual circuits may be accelerated or deferred based on assessment of field conditions and operating performance.

Circuit Description	Primary Cycle Length (Years)	Mid-cycle Inspection/selective Tree Maintenance (Years)
Feeder Multi-phase	5-6	2 to 3
Feeder Laterals (single-phase)	5-6	
Industrial Circuits	5-6	Annual inspection and selective maintenance