



A Touchstone Energy Cooperative 

March 22, 2011

Jeff DeRouen  
Executive Director  
Public Service Commission  
P.O. Box 615  
Frankfort, KY 40602-0615

RECEIVED

MAR 25 2011

PUBLIC SERVICE  
COMMISSION

Dear Mr. DeRouen:

Enclosed is Fleming Mason Energy's Reliability Report for the calendar year of 2010 requested by the Public Service Commission's Order dated October 26, 2007 for Case No. 2006-00494.

If you have any questions or comments, please contact the office at, 1-800-464-3144 or by email at [bhunt@fme.coop](mailto:bhunt@fme.coop).

Sincerely,

A handwritten signature in cursive script, appearing to read "Brandon Hunt".

Brandon Hunt  
System Engineer

# KENTUCKY PUBLIC SERVICE COMMISSION

## Electric Distribution Utility Annual Reliability Report

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### SECTION 1: CONTACT INFORMATION

UTILITY NAME	1.1	<u>Fleming Mason Energy</u>
REPORT PREPARED BY	1.2	<u>Brandon Hunt</u>
E-MAIL ADDRESS OF PREPARER	1.3	<u>bhunt@fme.coop</u>
PHONE NUMBER OF PREPARER	1.4	<u>606-845-2661</u>

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### SECTION 2: REPORT YEAR

CALENDAR YEAR OF REPORT	2.1	<u>2010</u>
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### SECTION 3: MAJOR EVENT DAYS

T <sub>MED</sub>	3.1	<u>7.05</u>
FIRST DATE USED TO DETERMINE T <sub>MED</sub>	3.2	<u>1/1/2006</u>
LAST DATE USED TO DETERMINE T <sub>MED</sub>	3.3	<u>12/31/2010</u>
NUMBER OF MED IN REPORT YEAR	3.4	<u>12</u>

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

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### SECTION 4: SYSTEM RELIABILITY RESULTS

#### Excluding MED

SAIDI	4.1	<u>110</u>
SAIFI	4.2	<u>1.29</u>
CAIDI	4.3	<u>85.2</u>

#### Including MED (Optional)

SAIDI	4.4	<u>                    </u>
SAIFI	4.5	<u>                    </u>
CAIDI	4.6	<u>                    </u>

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#### Notes:

- 1) All duration indices (SAIDI, CAIDI) are to be reported in units of minutes.
  - 2) Reports are due on the first business day of April of each year
  - 3) Reports cover the calendar year ending in the December before the reports are due.
  - 4) IEEE 1366 (latest version) is used to define SAIDI, SAIFI, CAIDI, and T<sub>MED</sub>
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# KENTUCKY PUBLIC SERVICE COMMISSION

## Electric Distribution Utility Annual Reliability Report

### SECTION 5: OUTAGE CAUSE CATEGORIES

Excluding MED

CAUSE CODE DESCRIPTION	SAIDI VALUE	CAUSE CODE DESCRIPTION	SAIFI VALUE
Lightning 5.1.1	33.2	Lightning 5.2.1	0.34
Unknown 5.1.2	21.6	Unknown 5.2.2	0.26
Power Supplier 5.1.3	11.3	Power Supplier 5.2.3	0.17
Tree / Limb 5.1.4	11.2	Tree / Limb 5.2.4	0.14
Deterioration 5.1.5	8.7	Bad Connection 5.2.5	0.11
Bad Connection 5.1.6	8.4	Wind 5.2.6	0.09
Wind 5.1.7	5.8	Deterioration 5.2.7	0.08
Vehicles 5.1.8	38	Vehicles 5.2.8	0.03
Vandals 5.1.9	1.7	Vandals 5.2.9	0.02
Animal/Bird 5.1.10	1.6	Animal/Bird 5.2.10	0.02

### SECTION 6: WORST PERFORMING CIRCUITS

CIRCUIT IDENTIFIER	SAIDI VALUE	MAJOR OUTAGE CATEGORY
Charter 144 (Holly) 6.1.1	9.59	Tree / Limb
Murphysville 124 (Stonewall) 6.1.2	8.36	Lightning
Charter 134 (Vanceburg) 6.1.3	7.02	Deterioration
Hilda 134 (Pine Hills) 6.1.4	6.2	Lightning
Hillsboro 104 (Grange City) 6.1.5	4.84	Lightning
Oak Ridge 144 (Mud Lick) 6.1.6	4.09	Lightning
Rectorville 124 (Tollesboro) 6.1.7	3.87	Unknown
Charters 124 (Herron Hill) 6.1.8	3.5	Lightning
Sharkey 124 (801 / Farmers) 6.1.9	3.44	Lightning
Hilda 104 (Cranston) 6.1.10	3.08	Vehicles

CIRCUIT IDENTIFIER	SAIFI VALUE	MAJOR OUTAGE CATEGORY
Charter 144 (Holly) 6.2.1	0.12	Tree / Limb
Oak Ridge 144 (Mud Lick) 6.2.2	0.08	Lightning
Sharkey 124 (801 / Farmers) 6.2.3	0.07	Lightning
Rectorville 124 (Tollesboro) 6.2.4	0.06	Unknown
Murphysville 124 (Stonewall) 6.2.5	0.06	Lightning
Charter 134 (Vanceburg) 6.2.6	0.05	Deterioration
Maysville 134 (Moransburg) 6.2.7	0.05	Wind
Hilda 134 (Pine Hills) 6.2.8	0.04	Lightning
Flemingsburg 114 (Cowan) 6.2.9	0.04	Wind
Hillsboro 124 (Sherburne) 6.2.10	0.04	Lightning

# KENTUCKY PUBLIC SERVICE COMMISSION

## Electric Distribution Utility Annual Reliability Report

Additional pages may be attached as necessary

### SECTION 7: VEGETATION MANAGEMENT PLAN REVIEW

**In 2010 the following circuits were sprayed.**

Oak Ridge(Burtonville, Petersville)  
Sharkey(801 Farmers, Sharkey)  
Oak Ridge(Mudlick)  
Rectorville(Plumville)  
Charters(Herron Hill, Holly)  
Flemingsburg(Tilton, Helena, Underbuild, Cowan)  
Plummers Landing(Bluebank)

**In 2010 the following circuits were cleared.**

Snow Hill  
Murphysville (Barret Pike, Strodes Run)  
Maysville  
Rectorville (Owl Hollow, Tollesboro)

Proposed spray and clear cycles are attached.

### SECTION 8: UTILITY COMMENTS

Circuit Descriptions:

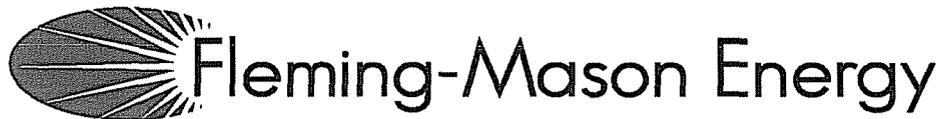
**Charters 144 (Holly)** - A long ckt that travels through rough terrain. Floods in this area caused many outages by washing out poles and trees.

**Murphysville 124 (Stonewall)** - Our longest ckt. Line exposure due to the ckt length is cause for higher outage numbers.

**Oak Ridge 144 (Mudlick)** - Line exposure due to the ckt length is cause for higher outage numbers.

**Charters 134 (Vanceburg)** - Another long ckt. Had a significant outage due to insulators breaking down. Ckt is being thoroughly inspected.

**Rectorville 124 (Tollesboro)** - A densely populated ckt. Lightning was a major cause.



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**Proposed Right of Way Clearing Cycle**

	<b>Substation</b>	<b>Mileage</b>
<b>2010</b>	<b>Snow Hill</b>	240
	<b>Murphysville</b> (Barret Pike, Strodes Run)	55
	<b>Maysville</b>	108
	<b>Rectorville</b> (Owl Hollow, Tollesboro)	151
	<b>TOTAL</b>	<b>554</b>
<b>2011</b>	<b>Rectorville</b> (Plumville)	80
	<b>Charters</b> ( Salt Lick, Vanceburg, Holly)	333
	<b>TOTAL</b>	<b>413</b>
<b>2012</b>	<b>Charters</b> ( Herron Hill)	102
	<b>Sharkey</b>	107
	<b>Oak Ridge</b>	229
	<b>Hilda</b> (Interchange, Pine Hills, Blue Stone)	93
	<b>TOTAL</b>	<b>531</b>
<b>2013</b>	<b>Hilda</b> (Cranston)	66
	<b>Hillsboro</b>	340
	<b>Plummers Landing</b> (Muses Mill, Hillsboro)	105
	<b>TOTAL</b>	<b>511</b>
<b>2014</b>	<b>Peasticks</b>	269
	<b>Plummers Landing</b> (Blue Bank)	59
	<b>Flemingsburg</b> (Hospital, Mt.Carmel, Underbuild)	92
	<b>TOTAL</b>	<b>420</b>
<b>2015</b>	<b>Flemingsburg</b> (Cowan, Tilton)	190
	<b>Murphysville</b> (Weaver Rd, Stonewall)	299
	<b>TOTAL</b>	<b>489</b>

## Proposed Right of Way Spraying Cycle

Substation	Mileage
<b>2011 Hilda</b> (Cranston, Interchange,Bluestone, Pine Hills)	
66 18 19 56	159
<b>Plummers Landing</b> (Muses Mill, Hillsboro)	
69 34	103
<b>Snow Hill</b> (Bluelicks, Fairview, Piqua, Doyle Pike)	
109 46 34 51	240
<b>Murphysville</b> (Weaver Rd, Stonewall, Barrett Pike, Strodes Run)	
87 212 25 30	354
<b>Rectorville</b> (Tollesboro, Owl Hollow)	
90 61	151
<b>TOTAL</b>	<b>1007</b>
<b>2012 Hillsboro</b> (Sherburne, Ringos, Poplar Plains, Grange City)	
127 33 72 108	340
<b>Maysville</b> (Moransburg, Federal Mogal)	
102 6	108
<b>Peasticks</b> (Forge Mill,Moores Ferry,Owingsville Sharpsburg,Hart Pike)	
42 48 152 27	269
<b>Charters</b> (Salt Lick, Vanceburg)	
12 154	166
<b>TOTAL</b>	<b>883</b>
<b>2013 Oak Ridge</b> (Burtonville, Petersville)	
60 32	92
<b>Sharkey</b> (801 Farmers, Sharkey)	
42 65	106
<b>Oak Ridge</b> (Mudlick)	137
<b>Rectorville</b> (Plumville)	80
<b>Charters</b> (Herron Hill, Holly)	
102 152	254
<b>Flemingsburg</b> (Tilton, Helena, Underbuild, Cowan)	
86 19 68 105	278
<b>Plummers Landing</b> (Bluebank)	59
<b>TOTAL</b>	<b>1006</b>