



# Blue Grass Energy

A Touchstone Energy Cooperative



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March 28, 2008

Director of Engineering  
Public Service Commission  
P O Box 615  
Frankfort KY 40602

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PUBLIC SERVICE  
COMMISSION

RE: **Case No. 2006-00494**

In accordance to the Commission's Order dated October 26, 2007, I have enclosed the annual reliability reports and a review of the 2007 vegetation management plan.

If you have any questions, please do not hesitate to call.

Sincerely,

Chris Brewer  
Vice President, Engineering

Enclosure

# Blue Grass Energy Vegetation Management Plan Review

## 2007 Plan Implementation Review

Blue Grass Energy has developed a plan to manage the maintenance of vegetation on distribution rights-of-way (ROW). The plans goals were established to provide excellent member service, maintain current tree related reliability and look for opportunities to increase production and reduce program cost.

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.

## 2007-2008 Vegetation Management Strategy

### SCHEDULED MAINTENANCE AND CLEARANCE

Blue Grass Energy provides electric service to nearly 55,000 members through a network of over 4,400 miles of distribution line. Blue Grass Energy uses a cyclic approach to preventive 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.

As illustrated in Table 1, Blue Grass Energy completed 17 distribution circuits in 2007 for a total of 797.46 miles of distribution line. This is 86.02 miles ahead of the original goal. In 2008, there are 29 distribution circuits for a total of 731.23 miles scheduled.

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

Maintenance Year	2007	2008
Scheduled	711.44	731.23
Completed	797.46	TBD

## **2008 VEGETATION MANAGEMENT PLAN**

Blue Grass Energy plans to continue the implementation of the vegetation management plan as submitted in 2007 in its final response to case no. 2006-00494. There are no significant changes planned for 2008.

Blue Grass Energy												
Year	SAIDI						CAIDI	SAIFI				
	All	MED					All	All				
2003	1133.2	1033.4	Due to Ice Storm				504.5	2.25				
2004	310.9	162.0	Due to Ice Storm				158.8	1.96				
2005	108.6	0.0					91.1	1.19				
2006	124.4	0.0					113.5	1.10				
2007	147.1	41.5	Major wind events in April and August				120.2	1.22				

MED - Major Event Day as defined by IEEE

<b>Analysis of overall system based on cause for 2007</b>				
	<b>Number of</b>			
	<b>Incidents</b>	<b>SAIDI</b>	<b>CAIDI</b>	<b>SAIFI</b>
Lightning	451	44.3	36.8	0.2462
Small Animal S.C.	378	5.5	4.5	0.0721
Unknown	320	7.3	6.0	0.0960
Equipment Fault	273	12.1	10.0	0.1071
Trees	204	28.8	23.9	0.2117
Deterioration	104	9.0	7.5	0.0570
Public Accident	75	5.3	4.4	0.0716
Overload	64	0.8	0.6	0.0114
Wind-not trees	59	9.5	7.9	0.0407
Other	76	24.6	18.5	0.3062
<b>Total outages</b>	<b>2004</b>	<b>147.1</b>	<b>120.2</b>	<b>1.2200</b>

