MAR 27 2013

PUBLIC SERVICE COMMISSION

LG&E and KU Energy LLC State Regulation and Rates 220 West Main Street PO Box 32010 Louisville, Kentucky 40232 www.lge-ku.com

Rick E. Lovekamp Manager - Regulatory Affairs T 502-627-3780 F 502-627-3213 rick.lovekamp@lge-ku.com

PPL companies

Kyle Willard Director of Engineering Kentucky Public Service Commission 211 Sower Boulevard Frankfort, Kentucky 40602-0615

March 27, 2013

RE: An Investigation of the Reliability Measures of Kentucky's Jurisdictional Electric Distribution Utilities and Certain Reliability Maintenance Practices - Administrative Case No. 2006-00494

Dear Mr. Willard:

Enclosed please find Louisville Gas and Electric Company's and Kentucky Utilities Company's 2012 Annual Reliability Report pursuant to the Commission's Order dated October 26, 2007 in the above referenced matter.

Should you have any questions concerning the enclosed, please contact me at your convenience.

Sincerely,

Rick E. Lovekamp

Rick E. Lowlean

KENTUCKY PUBLIC SERVICE COMMISSION



Electric Distribution Utility Annual Reliability Report

MAR 27 2013

SECTION 1: CONTACT INFORMATION

UTILITY NAME REPORT PREPARED BY E-MAIL ADDRESS OF PREPARER PHONE NUMBER OF PREPARER	1.1 1.2 1.3 1.4	Kentucky Utilities Company Nelson Maynard, Director Reliability nelson.maynard@lge-ku.com 859-367-1107		
SECTION	2: REPC	PRT YEAR		
CALENDAR YEAR OF REPORT	2.1	2012		
SECTION 3: MAJOR EVENT DAYS				

T_{MED}	3.1	6.671
FIRST DATE USED TO DETERMINE T_{MED}	3.2	1-Jan-07
LAST DATE USED TO DETERMINE T_{MED}	3.3	31-Dec-11
NUMBER OF MED IN REPORT YEAR	3.4	3

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

Excluding MED

4.1

SAIFI	4.2	0.847
CAIDI	4.3	112.39
Including	g MED (C	Optional)
SAIDI	4.4	120.23
SAIFI	4.5	0.932
CAIDI	4.6	129.00

95.15

Notes:

1) All duration indices (SAIDI, CAIDI) are to be reported in units of minutes.

SAIDI

- 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_{MED}

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
Animal	5.1.1	5.68	Animal	5.2.1	0.078
Construction	5.1.2	0.55	Construction	5.2.2	0.016
Lightning	5.1.3	12.66	Lightning	5.2.3	0.119
Non-Company	5.1.4	2.43	Non-Company	5.2.4	0.020
Unknown	5.1.5	13.93	Unknown	5.2.5	0.144
Overload	5.1.6	0.76	Overload	5.2.6	0.009
Planned Work	5.1.7	4.95	Planned Work	5.2.7	0.071
Trees	5.1.8	29.25	Trees	5.2.8	0.169
Utility Equip	5.1.9	20.32	Utility Equip	5.2.9	0.176
Vehicle	5.1.10	4.63	Vehicle	5.2.10	0.045

SECTION 6: WORST PERFORMING CIRCUITS

CIRCUIT IDENTIFIER		SAIDI VALUE	MAJOR OUTAGE CATEGORY
0312	6.1.1	2007.16	Trees
0311	6.1.2	1237.53	Trees
0304	6.1.3	1137.08	Trees
0947	6.1.4	1125.16	Trees
0317	6.1.5	1089.36	Trees
4331	6.1.6	838.44	Trees
0504	6.1.7	762.93	Trees
4476	6.1.8	701.51	Trees
0458	6.1.9	692.42	Trees
0418	6.1.10	663.44	Trees
		SAIFI	
CIRCUIT IDENTIFIER		SAIFI VALUE	MAJOR OUTAGE CATEGORY
CIRCUIT IDENTIFIER 0312	6.2.1		MAJOR OUTAGE CATEGORY Trees
	6.2.1 6.2.2	VALUE	
0312		VALUE 12.402	Trees
0312 0304	6.2.2	VALUE 12.402 6.487	Trees Trees
0312 0304 0311	6.2.2 6.2.3	VALUE 12.402 6.487 5.632	Trees Trees Planned Work
0312 0304 0311 0451	6.2.2 6.2.3 6.2.4	VALUE 12.402 6.487 5.632 5.222	Trees Trees Planned Work Vehicle
0312 0304 0311 0451 0314	6.2.2 6.2.3 6.2.4 6.2.5	VALUE 12.402 6.487 5.632 5.222 5.104	Trees Trees Planned Work Vehicle Lightning
0312 0304 0311 0451 0314 0319	6.2.2 6.2.3 6.2.4 6.2.5 6.2.6	VALUE 12.402 6.487 5.632 5.222 5.104 4.698	Trees Trees Planned Work Vehicle Lightning Trees
0312 0304 0311 0451 0314 0319 0365 0551	6.2.2 6.2.3 6.2.4 6.2.5 6.2.6 6.2.7 6.2.8	VALUE 12.402 6.487 5.632 5.222 5.104 4.698 4.631 4.295	Trees Trees Planned Work Vehicle Lightning Trees Trees
0312 0304 0311 0451 0314 0319 0365	6.2.2 6.2.3 6.2.4 6.2.5 6.2.6 6.2.7	VALUE 12.402 6.487 5.632 5.222 5.104 4.698 4.631	Trees Trees Planned Work Vehicle Lightning Trees Trees Non-Company

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

Additional pages may be attached as necessary SECTION 7: VEGETATION MANAGEMENT PLAN REVIEW

The Companies' Vegetation Management Plan was submitted December 19, 2007 and is referenced to the Reliability report submitted April 1, 2008. The Distribution Vegetation Management Program encompasses right of way maintenance for Louisville Gas and Electric Company and Kentucky Utilities Company (referred to as the "Companies"). The program is centralized and managed by a Forestry Manager and eight company Utility Arborists. All are certified arborists by the International Society of Arboriculture.

The Companies' plan is to maintain a proactive trim cycle while balancing the reactive needs of worst performing circuits. The Companies' goal is to maintain an average trim cycle of five years or less. The effectiveness of the plan is evaluated by the cycle, system performance as measured by system SAIDI, SAIFI, and CAIDI.

Effectiveness of the program:

KU/LG&E Tree Cycle - 4.87 years. KU (Kentucky) Tree SAIDI - 29.25 minutes KU (Kentucky) Tree SAIFI - 0.169 KU (Kentucky) Tree CAIDI - 173.08 minutes

The hazard tree program, mid cycle, herbicide, and worst performing circuits were completed as planned. Tree related SAIDI and SAIFI improved in 2012 compared to 2011. Tree CAIDI increased due to improvement in SAIFI.

Adjustments made to the tree plan in 2012 included:

No changes made to plan.

Changes to be implemented in 2013:

SECTION 8: UTILITY COMMENTS

Overall SAIDI and SAIFI improved in 2012 compared to 2011. CAIDI increased due to improvement in SAIFI. The top 10 Worst Performing Circuits for SAIDI and SAIFI have been evaluated for deficiencies. Corrective action was either completed in 2012 or planned and scheduled to be completed in 2013.