South Kentucky RECC
A Touchstone Energy® Cooperative
Allen Anderson, President & CEO

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March 18, 2013

Mr. Kyle Willard, Director of Engineering
Kentucky Public Service Commission
P.O. Box 615
Frankfort, KY 40602

Case No. 2006-00494

Dear Mr. Willard:

SUBJECT: Electric Distribution Utility Annual Reliability Report

Please find enclosed our Annual Reliability Report for your review.

If more informations is needed, please contact me.

Sincerely,

SOUTH KENTUCKY RECC

Dennis Holt

Dennis Holt
VP of Engineering & Operations

DH:jb

Enclosures

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Electric Distribution Utility Annual Reliability Report

SECTION 1: CONTACT INFORMATION

UTILITY NAME	1.1	South Kentucky RECC
REPORT PREPARED BY	1.2	Kevin Newton
E-MAIL ADDRESS OF PREPARER	1.3	knewton@skrecc.com
PHONE NUMBER OF PREPARER	1.4	(606)678-4121

SECTION 2: REPORT YEAR

CALENDAR YEAR OF REPORT	2.1	2012

SECTION 3: MAJOR EVENT DAYS

T_{MED}	3.1	23.99 minutes per consumer
FIRST DATE USED TO DETERMINE T_{MED}	3.2	1-Jan-08
LAST DATE USED TO DETERMINE T_{MED}	3.3	31-Dec-12
NUMBER OF MED IN REPORT YEAR	3.4	2

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

SAIDI	4.1	167.5
SAIFI	4.2	1.81
CAIDI	4.3	92.55

Including MED (Optional)

SAIDI	4.4	239.29
SAIFI	4.5	2.22
CAIDI	4.6	107.36

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_{MED}

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SECTION 5: OUTAGE CAUSE CATEGORIES
Excluding MED

CAUSE CODE DESCRIPTION		SAIDI VALUE	CAUSE CODE DESCRIPTION		SAIFI VALUE
Trees	5.1.1	7171.2	Trees	5.2.1	66.00
Broke Pole	5.1.2	2883.8	Source	5.2.2	41.80
Source (transmission)	5.1.3	2634.9	Broke Pole	5.2.3	20.90
Line Down	5.1.4	1647.0	Unknown	5.2.4	14.00
Car Hit Pole	5.1.5	1456.7	Line Down	5.2.5	13.20
Lightning	5.1.6	1014.8	Planned	5.2.6	12.20
Unknown Cause	5.1.7	898.5	Lightning	5.2.7	11.70
Planned	5.1.8	843.3	Car Hit Pole	5.2.8	7.10
Line Fuse	5.1.9	427.8	Line Fuse	5.2.9	6.10
Wind	5.1.10	356.0	Wind	5.2.10	3.50

SECTION 6: WORST PERFORMING CIRCUITS

CIRCUIT IDENTIFIER				SAIDI VALUE	MAJOR OUTAGE CATEGORY
SBS_3101			6.1.1	822.9302	Broke Pole
SBS_2702			6.1.2	613.0295	Trees
SBS_0505			6.1.3	606.9687	Source (transmission)
SBS_1601			6.1.4	550.5345	Trees
SBS_2202			6.1.5	520.1374	Car Hit Pole
SBS_0406			6.1.6	511.6932	Trees
SBS_3003			6.1.7	503.8983	Line Down
SBS_1702			6.1.8	497.1226	Major Storm
SBS_1404			6.1.9	439.0151	Major Storm
SBS_2203			6.1.10	422.9927	Car Hit Pole

CIRCUIT IDENTIFIER				SAIFI VALUE	MAJOR OUTAGE CATEGORY
SBS_3101			6.2.1	9.8754	Planned
SBS_1601			6.2.2	6.2691	Trees
SBS_1404			6.2.3	4.6804	Trees
SBS_3402			6.2.4	4.5565	Trees
SBS_2702			6.2.5	4.3542	Trees
SBS_0505			6.2.6	4.2762	Trees
SBS_0406			6.2.7	3.8902	Unknown
SBS_3805			6.2.8	3.7430	Line Fuse
SBS_3103			6.2.9	3.6751	Trees
SBS_2901			6.2.10	3.6187	Trees

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Additional pages may be attached as necessary

SECTION 7: VEGETATION MANAGEMENT PLAN REVIEW

Evaluation of the 2012 VMP

Introduction:

SKRECC has had a formally written VMP in place since 2007. In prior years it did not have a formerly written plan; however, it did have established goals and objectives that were being monitored and administered by the Right-of-Way Manager.

Bushhogging:

In 2012 the cooperative performed 168.45 miles of bush hogging.

Herbicidal Spraying:

For the year of 2012 we accomplished all of the herbicide spraying that was planned for. This was approximately 448.51 miles of spraying.

Cycle Trimming:

For the standard trimming cycle work the cooperative planned to trim 21 circuits for the year. We completed those circuits or approximately 564.3 miles of this work.

Other Trimming and Cutting:

In 2012 we built to approximately 934 new members, and this amounted to 11 miles of new overhead distribution line clearing. We were able to take care of the clearing for all these new lines.

Along with the above mentioned work, we were able to complete 1,626 individual work-orders for trimming and other right-of-way work at various locations across the system. These were primarily places near the member's homes that involved yard trees or other special situations, but included the full range of right-of-way work that is typical for a rural electric system.

Conclusions:

At the end of 2012 we were very close to being on schedule for all of our planned right-of-way work. We feel that our Right-of-Way plan was implemented well, but we will continue to look for ways to improve in both cost containment and effectiveness of methods. We are evaluating the data that is contained in the annual reliability report to the PSC and will consider the worst performing circuits to see if any changes in our right-of-way plans are needed to help improve reliability on those circuits.

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SECTION 8: UTILITY COMMENTS

South Kentucky RECC's worst performing circuits were typically rural circuits with tree lined right of ways. The vast majority of the ranking circuits show TREES as the prominant cause of the outages. This holds true for both the frequency of outages (SAIFI list) and the duration of the outage (SAIDI list).

We would also note that many of the outages that are categorized as TREES are outages that occurred during storms. The category is picked by the dispatcher with the assistance of the crew working the outage. During busy times the category may be picked without getting information from the field, and TREES may be picked when the outage may more accurately be identified as WIND or LIGHTNING. Many of the outages during storms are off right of way trees. We have very few outages caused by trees brushing the line. Trees brushing the line are much more likely to cause flicker or dimming and present safety issues for the public. We feel we are on a good cycle for trimming and the fact that TREES shows up as the cause so frequently is not a reflection on our VMP, but rather a result of the number of miles of line we have that is in tree lined right of ways.

We believe that the nature of a rural system lends itself to longer feeders and thus more exposure. Longer feeders along with increased travel time to outages affect the duration and frequency of outages on these longer feeders that are so common to the rural coops.