



**Big Sandy Rural Electric
Cooperative Corporation**

504 11th Street
Paintsville, Kentucky 41240-1422
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Toll Free (888) 789-RECC (7322)

February 15, 2013

Attention: Jeff Derouen, Executive Director

Kentucky Public Service Commission

211 Sower Blvd.

P. O. Box 615

Frankfort, KY 40602-0615

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**PUBLIC SERVICE
COMMISSION**

Dear Mr. Derouen,

Please find the enclosed document for Big Sandy RECC. This is our 2012 Electric Distribution Utility Annual Reliability Report.

If you have any questions or need anything further, please don't hesitate to contact our office.

Thank you,

A handwritten signature in black ink, appearing to read "David Estepp".

David Estepp, President & General Manager

Big Sandy RECC

606-789-4095

Enclosures

DE/jm

Electric Distribution Utility Annual Reliability Report

SECTION 1: CONTACT INFORMATION

UTILITY NAME	1.1	<u>Big Sandy RECC</u>
REPORT PREPARED BY	1.2	<u>Jeff Prater</u>
E-MAIL ADDRESS OF PREPARER	1.3	<u>jprater@bigsandyrecc.com</u>
PHONE NUMBER OF PREPARER	1.4	<u>606 789-4095 ext 227</u>

SECTION 2: REPORT YEAR

CALENDAR YEAR OF REPORT	2.1	<u>2012</u>
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SECTION 3: MAJOR EVENT DAYS

T_{MED}	3.1	<u>7.1</u>
FIRST DATE USED TO DETERMINE T_{MED}	3.2	<u>1/1/2012</u>
LAST DATE USED TO DETERMINE T_{MED}	3.3	<u>12/31/2012</u>
NUMBER OF MED IN REPORT YEAR	3.4	<u>17</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

Excluding MED

SAIDI	4.1	<u>115</u>
SAIFI	4.2	<u>93</u>
CAIDI	4.3	<u>1.2</u>

Including MED (Optional)

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

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
Tree failure/out of ROW	5.1.1 102	Power Supply	5.2.1 0.4227
Wind, not trees	5.1.2 87.94	Weather, other	5.2.2 0.2870
Weather, other	5.1.3 86.28	Tree failure/out of ROW	5.2.3 0.2681
Tree growth	5.1.4 29.28	Wind, not trees	5.2.4 0.2621
Power Supply	5.1.5 25.88	Equip & Material Failure	5.2.5 0.098
Trees with ice/snow	5.1.6 16.7	Tree growth	5.2.6 0.092
Equip & Material Failure	5.1.7 11.93	Trees with ice/snow	5.2.7 0.0451
Conductor Sag	5.1.8 11.11	Lightning	5.2.8 0.0351
Unknown	5.1.9 6.6	Unknown	5.2.9 0.0229
Lightning	5.1.10 3.84	Conductor Sag/Clearance	5.2.10 0.0102

SECTION 6: WORST PERFORMING CIRCUITS

CIRCUIT IDENTIFIER	SAIDI VALUE	MAJOR OUTAGE CATEGORY
Thelma 392	6.1.1 30.2684	Material and Equipment failure
Cow Creek 992	6.1.2 21.5523	Construction
Whitehouse 550	6.1.3 18.9083	Tree failure/overhang or dead tree
Decoy 1173	6.1.4 17.4426	Power Supply
Middle Creek 90	6.1.5 16.3916	Power Supply
Rock Fork 679	6.1.6 14.3736	Power Supply
Denver 708	6.1.7 13.1539	Weather, other
Salt Lick 308	6.1.8 10.9358	Maintenance
Arkansas 655	6.1.9 8.16719	Cause unknown
Flat Gap 661	6.1.10 8.10849	Tree failure/overhang or dead tree

CIRCUIT IDENTIFIER	SAIFI VALUE	MAJOR OUTAGE CATEGORY
Cow Creek 992	6.2.1 0.27	Construction
Whitehouse 550	6.2.2 0.24	Tree failure/overhand or dead tree
Arkansas 655	6.2.3 0.18	Cause unknown
Salt Lick 308	6.2.4 0.14	Maintenance

Thelma 392	6.2.5	0.14	Material and Equipment failure
Flat Gap 661	6.2.6	0.08	Tree failure/overhand or dead tree
Middle Creek 90	6.2.7	0.07	Power Supply
Decoy 1173	6.2.8	0.06	Power Supply
Denver 708	6.2.9	0.05	Weather, other
Rock Fork 679	6.2.10	0.04	Power Supply

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Additional pages may be attached as necessary

SECTION 7: VEGETATION MANAGEMENT PLAN REVIEW

Big Sandy RECC contracted ECI, an industry leader in utility vegetation management to review Big Sandy's Vegetation Management Plan. This review was completed and submitted to the PSC in 2012. Big Sandy's Vegetation Management Plan has been revamped using recommendations from ECI's report. Big Sandy now has a comprehensive vegetation maintenance schedule which tracks progress on a circuit by circuit basis.

Big Sandy's Vegetation budget was increased in 2012 with an actual expenditure of **\$ 715,758.83.**

2013 Vegetation Management work is continuing with 3 contract cutting crews and one herbicide spray crew.

2013 Vegetation maintenance work has been planned to manage circuits based on the number of right of way caused outages during the calendar year of 2012.

Big Sandy RECC is committed to an aggressive Vegetation Management Plan as a part of providing safe and reliable electric to our membership.

SECTION 8: UTILITY COMMENTS

Big Sandy has experienced problems with the transmission supply into our Salt Lick substation. East Kentucky Power is working with AEP to address and correct the problems.

Big Sandy's Denver 708 circuit experience severe damage during the spring tornado. Consequently, our major events day may appear a bit higher than normal.

Big Sandy experienced an above normal year for MED's with 17 days exceeding the threshold. Three storms produced multiple day events, including the spring tornado contributing to the

MED value.

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