



**Big Sandy Rural Electric
Cooperative Corporation**

504 11th Street
Paintsville, Kentucky 41240-1422
(606) 789-4095 • Fax (606) 789-5454
Toll Free (888) 789-RECC (7322)

RECEIVED

MAR 10 2011

PUBLIC SERVICE
COMMISSION

**2010 BIG SANDY RECC
ANNUAL RELIABILITY REPORT**

4) IEEE 1366 (latest version) is used to define SAIDI, SAIFI, CAIDI, and T_{MED}

Electric Distribution Utility Annual Reliability Report

SECTION 5: OUTAGE CAUSE CATEGORIES

Excluding MED

CAUSE CODE DESCRIPTION	SAIDI VALUE	CAUSE CODE DESCRIPTION	SAIFI VALUE
Power Supply	5.1.1 56.56	5.2.1	0.114
Out R/W trees	5.1.2 11.18	5.2.2	0.102
Tree Growth In R/W	5.1.3 4.27	5.2.3	0.023
Line equipment	5.1.4 3.56	5.2.4	0.016
Cause Unknown	5.1.5 3.32	5.2.5	0.036
Trees with Ice/snow	5.1.6 3.03	5.2.6	0.027
Planned Maint.	5.1.7 2.97	5.2.7	0.011
Other	5.1.8 1.71	5.2.8	0.026
Overload	5.1.9 0.84	5.2.9	0.026
Decay/Age Material	5.1.10 0.71	5.2.10	0.006

SECTION 6: WORST PERFORMING CIRCUITS

CIRCUIT IDENTIFIER	SAIDI VALUE	MAJOR OUTAGE CATEGORY
Salt Lick Substation #7	6.1.1 497.72	Power Supply CC-000
Martin Co.-Boonscamp #552	6.1.2 162.88	Equipment Fault CC-300
Martin Co.-Tomahawk #551	6.1.3 150.27	Maintenance CC-110
Salt Lick-Decoy #1173	6.1.4 125.61	Maintenance CC-110
Red Bush- Denver #256	6.1.5 88.64	Equipment Fault CC-300
Bill Well's-Cow Creek #992	6.1.6 79.11	Tree Failure Out/RW CC-430
Volga- Denver #466	6.1.7 66.93	Tree Growth In R/W CC-420
Martin Co.-Whitehouse #550	6.1.8 63.15	Tree Failure Out/RW CC-430
Middle Ck.-Tigermart #287	6.1.9 39.57	Tree Failure Out/RW CC-430
Thelma-Volga #95	6.1.10 36.44	Trees with ice/snow CC-440

CIRCUIT IDENTIFIER		SAIFI VALUE	MAJOR OUTAGE CATEGORY
Martin Co.-Boonscamp #552	6.2.1	1.40	Equipment Fault CC-300
Salt Lick Substation #7	6.2.2	1.00	Power Supply CC-000
Salt Lick-Decoy #1173	6.2.3	0.91	Maintenance CC-110
Bill Well's-Cow Creek #992	6.2.4	0.88	Tree Failure Out/RW CC-430
Martin Co.-Tomahawk #551	6.2.5	0.62	Maintenance CC-110
Red Bush- Denver #256	6.2.6	0.57	Equipment Fault CC-300
Salt Lick-Middle Ck. #90	6.2.7	0.56	Cause Unknown #999
Volga-Flat Gap #661	6.2.8	0.47	Corrosion/Abrasion of Mat./equip 410
Thelma-Volga #95	6.2.9	0.45	Trees with ice/snow CC-440
Martin Co.-Whitehouse #550	6.2.10	0.39	Tree Failure Out/RW CC-430

Electric Distribution Utility Annual Reliability Report

Additional pages may be attached as necessary

SECTION 7: VEGETATION MANAGEMENT PLAN REVIEW

Right of Way Plans and Procedures are attached.

Big Sandy RECC in house	\$ 70,458.60
Contract Cutting	\$ 518,519.77
Herbicide	\$ 97,256.76
Total for 2010	\$ 686,235.13

Big Sandy RECC's actual expense for 2010 was \$ 686,235.13.

Big Sandy has implemented a more aggressive herbicide program with 170 line section miles treated in 2010. In Right of way growth was the third leading cause of outages in 2010. One of the worst performing circuits calculated by SAIDI are in right-of-way trees. This circuit is being evaluated by our Right-of-way Supervisor for work in 2011 to reduce outage time.

Other circuits are being evaluated for Out of Right of way danger tree removals, which cause numerous outages.

Big Sandy has plans for replacing 500 porcelain fused cutouts in 2011 in an effort to reduce equipment failure outage times.

SECTION 8: UTILITY COMMENTS

Please note that the number one cause for outages in 2010 was power supply. This is a direct result of several extended outages on the transmission line that feeds East KY Power's Salt Lick Substation in southern Floyd County. The transmission line is owned by AEP.

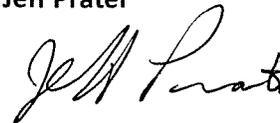
EKPC has contacted AEP about this situation in the past trying to improve the reliability.

These SAIDI numbers will be forwarded to EKPC with a request to explore options for improving reliability on this substation.

Outage Metrics were calculated using RUS Bulletin 1730A-119
MED were calculated using IEEE 1366

The ten worst performing circuits are calculated with a true SAIDI number for each circuit. The outage metrics used the number of customers served on the individual circuit and the outage time for that circuit, as well as the number customers interrupted.

Jeff Prater



Operations Superintendent

Big Sandy RECC Right-of-Way Plan and Procedures

Big Sandy RECC has approximately 1000 miles of distribution line with a goal of cutting and spraying 145 miles per year and targets a 7-year cycle of right of way maintenance with a combination of ROW cutting and herbicide spraying.

Big Sandy RECC plans to use 3 contract crews and 1 Big Sandy RECC crew to perform all right of way cutting; and a contractor for herbicide application.

Big Sandy RECC procedures for the maintenance of ROW under its authority shall be performed on all energized, de-energized primary, secondary, and service drops as follows:

1. Provide no less than thirty-five feet (35) of cleared right of way depending upon permission obtained, including all side trim and overhang on all energized or de-energized distribution 3 phase, B phase lines, and thirty-feet (30) on all single phase distribution lines. All rural right of ways shall be cleared from ground to sky, dead and dangerous trees removed and all yard trees laterally trimmed. A minimum of three years average growth to be trimmed from all distribution lines.
2. Provide minimum of 5 feet clearance around open secondary conductor and poles (If property owner will grant permission).
3. Only limbs applying direct pressure to insulated service drops will be trimmed at the direction of Maintenance Superintendent.
4. Do such additional trimming according to RUS specifications as well as give the tree a satisfactory shape and appearance where necessary.
5. Trim all trees on highways and other public places in accordance with the requirement of the authorities having jurisdiction.
6. In those instances when Big Sandy RECC has the legal right to do so, remove all overhanging hazards in so far as conditions will permit, including cutting dead or leaning trees in or out of right of way, which will strike Big Sandy RECC lines.
7. All brush and wood will be left to the side and in the right of way with the following exceptions:

Brush and tree removal in yards, gardens, mown fields, etc.

8. Cut and Slash method can be used under the direction of Maintenance Superintendent.
9. No trees, brush, etc. shall be left on fences or in creeks, etc.
10. Trees shall be trimmed only when permission to cut and/or remove cannot be obtained.
11. When conditions permit all stump cuts shall be at a height of 2 inches or lower.
12. Chemical treatment of stumps with a growth retardant, at the direction of Superintendent, shall be done immediately after cutting the tree.
13. Priority work locations will be designated by Big Sandy RECC, striving to promote the efficiency of operations by enhancing progress in an orderly fashion wherever practicable.
14. Big Sandy RECC may suspend work wholly or in part for such periods, as the Maintenance Superintendent may deem necessary due to unsuitable weather or such other conditions as are considered unfavorable.
15. Big Sandy RECC shall perform work in such a manner as to maximize preservation of beauty, conservation of natural resources, and minimize marring and scarring of the landscape and silting of streams. Workers shall not deposit trash in or on streams, waterways, or on consumer's property. All workers shall follow the criteria related to EPA as specified by the Maintenance Superintendent.
16. Any and all excess debris, underbrush, and other useless material shall be removed from the work site as rapidly as practicable as the work progresses unless agreed by property owner.



Operations Superintendent