



# SALT RIVER ELECTRIC

111 West Brashear Avenue • Bardstown, Kentucky 40004  
(502) 348-3931 • (502) 955-9732 • Fax (502) 348-1993

March 27, 2008

Director of Engineering  
KY Public Service Commission  
PO Box 615  
Frankfort KY 40602

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PUBLIC SERVICE  
COMMISSION

Re: Administrative Case No. 2006 – 00494  
Annual Reliability Report for 2007  
Salt River Electric Cooperative Corporation

Dear Sir:

As ordered by the Commission on October 26, 2007, attached is the 2007 Annual Reliability Report for Salt River Electric Cooperative Corporation, Bardstown, Kentucky.

The report includes the following:

- **Schedule 1**- SAIDI, SAIFI and CAIDI indexes calculated for the five-year period January 1, 2003, through December 31, 2007, on Salt River Electric's complete system
- **Schedule 2** - Chart of analysis on the contributing causes for outages which occurred in the SRECC service territory in the reporting year 2007
- **Schedule 3** - List of SRECC's ten worst performing circuits in the reporting year 2007 identified by substation number, feeder number and name, and including each circuit's index value and contributing cause of poor performance

For clarification of terms contained in this report, please refer to IEEE Standard 1366-2003.

If you require further information or have any questions regarding this report, please contact me at 502.350.1605.

Sincerely,

Timothy J. Sharp, PE  
Vice President of Operations

Attachments

**SALT RIVER ELECTRIC COOPERATIVE CORPORATION**

System Designation KY-021

**SAIDI – SAIFI – CAIDI**

01/01/2003 – 12/31/2007

	<u>SAIDI</u>					<u>SAIFI</u>	<u>CAIDI</u>
	Total	Major Event Days	Power Supplier	Scheduled	Other	Occurrences	Minutes
<b>2003</b>	368.2	291.0	3.9	1.8	71.5	1.60	229.9
<b>2004</b>	627.7	521.5	6.1	4.2	95.9	2.03	309.6
<b>2005</b>	123.6	0.0	20.4	5.7	97.5	1.68	73.4
<b>2006</b>	190.2	42.8	29.6	3.4	114.4	2.11	90.0
<b>2007</b>	140.9	43.2	14.2	2.0	81.6	1.67	84.3

**SALT RIVER ELECTRIC COOPERATIVE CORPORATION**  
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**Top Ten Outage Causes  
For Reporting Year 2007**

SAIDI				SAIFI		
	<u>Cause</u>	<u>Value</u>	<u>Percentage</u>	<u>Cause</u>	<u>Value</u>	<u>Percentage</u>
1.	Trees	46.45	32.93	Power Supplier	0.68	40.75
2.	Power Supplier	37.23	26.40	Trees	0.31	18.46
3.	Unknown	15.33	10.87	Unknown	0.13	7.92
4.	Lightning	11.43	8.10	Equipment	0.13	7.74
5.	Equipment	11.03	7.82	Lightning	0.10	5.88
6.	Small Animals	6.30	4.47	Small Animals	0.10	5.88
7.	Vehicles	5.49	3.89	Scheduled	0.09	5.20
8.	Wind	3.39	2.40	Vehicles	0.06	3.82
9.	Scheduled	1.95	1.38	Wind	0.03	1.61
10.	Overload	0.79	0.56	Overload	0.02	1.19

**SCHEDULE 3****SALT RIVER ELECTRIC COOPERATIVE CORPORATION**

System Designation KY-021

**Ten Worst Performing Circuits  
For Reporting Year 2007**

<b>SAIDI</b>				<b>SAIFI</b>		
	<b>CIRCUIT</b>	<b>Index Value</b>	<b>Major Cause Category</b>	<b>CIRCUIT</b>	<b>Index Value</b>	<b>Major Cause Category</b>
	<u>Substation # / (Feeder #) / Sub Name</u>	<u>Value</u>	<u>Category</u>	<u>Substation # / (Feeder #) / Sub Name</u>	<u>Value</u>	<u>Category</u>
1.	12 (2) – Mt. Washington	9.1	Supplier	12 (2) – Mt. Washington	0.1155	Supplier
2.	06 (5) – Brooks	6.6	Supplier	21 (4) – Beulah Beam	0.1080	Supplier
3.	21 (4) – Beulah Beam	6.3	Supplier	11 (4) – Cedar Grove	0.0856	Trees
4.	19 (3) – Woosley	6.3	Trees	06 (5) – Brooks	0.0812	Supplier
5.	11 (4) – Cedar Grove	6.2	Trees	20 (3) – West Mt. Washington	0.0810	Supplier
6.	02 (2) – Bardstown Shopping Center	5.9	Trees	14 (3) – Pleasant Grove	0.0699	Supplier
7.	05 (1) – Blue Lick	5.8	Supplier	06 (2) – Brooks	0.0632	Supplier
8.	05 (2) – Blue Lick	5.0	Supplier	04 (4) – Bloomfield	0.0582	Scheduled
9.	04 (4) – Bloomfield	4.7	Scheduled	05 (1) – Blue Lick	0.0538	Supplier
10.	20 (4) – West Mt. Washington	4.2	Supplier	22 (2) – Joe Tichenor	0.0533	Trees