



Big Sandy Rural Electric Cooperative Corporation

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PUBLIC SERVICE
COMMISSION

March 3, 2008

Director of Engineering
Public Service Commission
P.O. Box 615
Frankfort, KY 40602

RE: Case No. 2006-00494

Dear Director of Engineering,

In response to the Public Service Commission's order, Case No. 2006-00494, Big Sandy RECC is submitting our Annual Reliability Reports for the past 5 years.

We compiled system-wide S.A.I.D.I. reliability numbers only until 2007. During the calendar year of 2007, we compiled three indices: S.A.I.D.I., S.A.I.F.I., and C.A.I.D.I on a system-wide basis.

Big Sandy RECC has no formal method of analyzing the reliability of individual circuits. However, circuits are monitored by direct communication between service personnel and the Maintenance Superintendent or the Plant Superintendent. Due to the small size of our system, the reliability of specific circuits can informally be monitored in this manner. Whenever a specific circuit has numerous outages, the Maintenance Superintendent will patrol the circuit or ascertain the reasons and decide on appropriate corrective measures.

With the erratic nature of the weather patterns in this area it is very difficult to determine within a one-year period the effectiveness of our ROW program, but in 2007 Big Sandy RECC has emphasized 'Hot Spotting; out of ROW danger trees, and regular ROW clearing. We have also targeted fused disconnect devices for replacement due to a noticeable high number of failures. We currently believe these methods are addressing our highest number of outages.

In 2008, we plan to continue to target 'Hot Spots', out of ROW danger trees, and regular ROW clearing. We also plan to continue our fused disconnect replacement program until the number of failures no longer is substantial.

Sincerely,

Jeff Prater
Plant Superintendent

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2007

Outage	Power supply	Extreme storm	Prearranged	Equipment failure	Weather	Man-made	Animals	In R/W	Out R/W	Other	Total
Summary											
For month of <u>Dec</u>											
For Calendar year <u>2007</u>											
Number of Outages											
This month	0	0	7	18	23	3	0	2	10	0	63
This month last year	0	0	10	23	27	1	2	3	0	0	66
This year to date	3	0	121	244	106	34	28	74	120	0	730
Corresponding date	0	0	69	184	90	18	35	56	68	1	521
Consumer Hours outages											
This month	0	0	110'25"	268'15"	600'25"	10'15"	0	22'15"	337'35"	0	1349'10"
This month last year	0	0	120'	155'40"	797'40"	1'50"	26'10"	11'20"	0	0	1112'40"
This year to date	12,343'20"	0	1837'40"	5151'20"	1401'	495'30"	199'45"	2046'15"	3815'35"	0	27,288'25"
Corresponding date	0	0	2196'45"	6561'50"	2393'55"	528'25"	328'15"	1894'40"	1680'15"	90'	15,674'5"
S.A.I.D.I	Average Outage Time Per Consumer										
This year to date	56.3"	0	8.4"	23.5"	6.4"	2.3"	.9"	9.3"	17.4"	0	2.1' hrs
Corresponding date	0	0	10.1"	30.2"	11.0"	2.4"	1.5"	8.7"	7.7"	.4"	1.2' hrs
S.A.I.F.I	Number of consumers Out of Power/Avg. Number Consumers Served										
This year to date											1.02
Corresponding date											
C.A.I.D.I	Total Downtime/ Number People Out of Power										
This last year to date											126.3" mins
Corresponding date											

Data For Computing Avg*

OUTAGE HOURS PER CONSUMER

Number of consumer served this month: 13, 272

Weighted Avg. Number of Consumer served this year to date: 13, 166.5

2006

Outage	Power supply	Extreme storm	Prearranged	Equipment failure	Weather	Man-made	Animals	In RW	Out RW	Other	Total
Summary											
For month of <u>Dec</u>											
For Calendar year <u>2006</u>											
Number of Outages											
This month	0	0	10	23	27	1	2	3	0	0	66
This month last year	0	0	5	21	0	0	2	10	0	0	38
This year to date	0	0	69	184	90	18	35	56	68	1	521
Corresponding date	0	0	82	196	98	26	23	214	0	11	650

Consumer Hours outages	Power supply	Extreme storm	Prearranged	Equipment failure	Weather	Man-made	Animals	In RW	Out RW	Other	Total
This month	0	0	120'	155'40"	797'40"	1'50"	26'10"	11'20"	0	0	1112'40"
This month last year	0	0	109'45"	260'25"	0	0	5'10"	269'	0	0	644'20"
This year to date	0	0	2196'45"	6561'50"	2393'55"	528'25"	328'15"	1894'40"	1680'15"	90'	15,674'5"
Corresponding date	0	0	2849'30"	2010'45"	1335'55"	576'50"	183'20"	4966'35"	0	40'5"	11,963'

Average Outage Time Per Consumer

This year to date	0	0	10.1"	30.2"	11.0"	2.4"	1.5"	8.7"	7.7"	.4"	1.2' hrs
Corresponding date	0	0	13.2"	9.3"	6.2"	2.7"	.9"	23."	0	.2"	55.4" hrs.

Average Number of Outages Per Consumer

This year to date											
Corresponding date											

Average Outage Time Per Number of Outages

This last year to date											
Corresponding date											

Data For Computing Avg*
OUTAGE HOURS PER CONSUMER

Number of consumer served this month: 13,123

Weighted Avg. Number of Consumer served this year to date: 13,048.5

2005

	Power Supply	Extreme storm	Prearranged	Equipment Failure	Weather	Man-made	Animals	R-Way	Unknown	Other	Total Causes
Outage Summary											
For month of <i>Dec</i>											
For Calendar Year <i>2005</i>											
Number Of Outages											
This Month	0	0	5	21	0	0	2	10	0	0	38
This Month Last Year	0	0	7	13	7	2	0	25	9	0	63
this year to date	0	0	82	196	98	26	23	214	11	0	650
Corresponding date	2	0	99	39	129	16	27	288	133	51	784
Consumer Hours Outages											
This Month	0	0	109'45"	260'25"	0	0	5'10"	269'	0	0	644'20"
This Month Last Year	0	0	98'20"	261'10"	185'5"	30'50"	0	868'25"	130'25"	0	1574'15"
This Year to date	0	0	2849'30"	2010'45"	1335'55"	576'50"	183'20"	4966'35"	40'5"	0	11,963'
Corresponding date	1403'	0	2193'25"	424'50"	154,113'50"	217'5"	75'5"	7246'25"	590'	1088'40"	167,352'20"
S.A.I.D.I	Average Outage Time Per Consumer										
This year to date	0	0	13.2"	9.3"	6.2"	2.7"	.9"	23."	.2"	0	55.4"
Corresponding date	6.6"	0	10.5"	2.0"	12.0' hrs.	1.0"	.4"	33.9"	2.8"	5.1"	13.0' hrs
S.A.I.F.I	Average Number of Outages Per Consumer										
This year to date	[REDACTED]										
Corresponding date	[REDACTED]										
C.A.I.D.I	Average Outage Time Per Number of Outages										
This last year to date	[REDACTED]										
corresponding date	[REDACTED]										

Data For Computing Avg*
 OUTAGE HOURS PER CONSUMER
 Number of consumer served: this month 13,017
 Weighted Avg. Number of Consumer Served: This Year to Date 12,964.0

2004

Outage	Power Supply	Extreme storm	Prearranged	Equipment Failure	Weather	Man-made	Animals	R-Way	Unknown	Other	Total Causes
Summary											
For month of <i>Dec</i>											
For Calendar Year <i>2004</i>											
Number Of Outages											
This Mouth	0	0	7	13	7	2	0	25	9	0	63
This Mouth Last Year	0	0	1	0	1	0	0	8	16	7	33
this year to date	2	0	99	39	129	16	27	288	133	51	784
Corresponding date	0	0	83	0	50	0	8	194	201	82	618
Consumer Hours Outages											
This Mouth	0	0	98'20"	261'10"	185'5"	30'50"	0	868'25"	130'25"	0	1574'15"
This Mouth Last Year	0	0	3'	0	22'30"	0	0	532'35"	36'15"	1926'15"	2520'35"
This Year to date	1403'	0	2193'25"	424'50"	154,113'50"	217'5"	75'5"	7246'25"	590'	1088'40"	167,352'20"
Corresponding date	0	0	2081'35"	0	627'45"	0	58'40"	6102'55"	813'45"	4562'15"	14,238'55"
S.A.I.D.I	Average Outage Time Per Consumer										
This year to date	6.6"	0	10.5"	2.0"	12.0' hrs	1.0"	.4"	33.9"	2.8"	5.1"	13.0' hrs
Corresponding date	0	0	9.9"	0	3.0"	0	.2"	29.0"	3.9"	21.7"	1.1' hrs
S.A.I.F.I	Average Number of Outages Per Consumer										
This year to date											
Corresponding date											
C.A.I.D.I	Average Outage Time Per Number of Outages										
This last year to date											
corresponding date											

Data For Computing Avg*
 OUTAGE HOURS PER CONSUMER
 Number of consumer served: this month 12,924
 Weighted Avg. Number of Consumer Served: This Year to Date 12,829.6

OUTAGE SUMMARY

For Month of Dec
 For Calendar Year 2003

	Power Supply	Pre-Arranged	Trees	Lightning	Broken Jumper	Blown Fuses	Animals & Birds	Unknown	Other	TOTAL ALL CAUSES
NUMBER OF OUTAGES										
This Month	0	1	8	1	0	16	0	0	7	33
This Month Last Year	0	2	8	32	0	12	1	0	8	63
This Year to Date	0	83	194	50	0	196	8	5	82	618
Last Year to Corresponding Date	1	98	216	97	0	185	15	6	76	694
CONSUMER HOURS OUTAGE										
This Month	0	3'	532'35"	22'30"	0	36'15"	0	0	1926'15"	2520'35"
This Month Last Year	0	25'	136'	1600'55"	0	14'15"	25"	0	376'15"	160,605'45"
This Year to Date	0	208'1'35"	6702'55"	627'45"	0	671'40"	50'40"	142'5"	4562'15"	14,238'55"
Last Year to Corresponding Date	93'45"	1172'30"	7049'15"	163547'25"	0	530'30"	75'50"	307'40"	4611'25"	177,288'20"
AVERAGE* OUTAGE TIME PER CONSUMER										
This Month	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx
This Month Last Year	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx
This Year to Date	0	9.9"	29.0"	3.0"	0	3.2"	.2"	.7"	21.7"	1.1' hrs
Last Year to Corresponding Date	.5"	5.6"	33.9"	13.1 hrs	0	2.6"	.4"	1.1"	22.2"	14.2' hrs

DECAPITULATION FOR DECEMBER
 REPORT ONLY

Average* Outage Hours Per Consumer Per Year										
This Year	0	9.9"	29.0"	3.0"	0	3.2"	.2"	.7"	21.7"	1.1' hrs
Last Year	.5"	5.6"	33.9"	13.1' hrs	0	2.6"	.4"	1.0"	22.2"	14.2' hrs

DATA FOR COMPUTING AVERAGE*
 OUTAGE HOURS PER CONSUMER

Number of Consumers Served: This Month 12,748
 Weighted Average Number of Consumers Served: This Year to Date 12,616.1

REMARKS:

Average outage hours per consumer are based on total consumers served on the system,