

Meade County RECC

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3/26/08

RECEIVED

MAR 28 2008

**PUBLIC SERVICE
COMMISSION**

Director of Engineering
Kentucky Public Service Commission
P.O. Box 615
211 Sower Blvd.
Frankfort, Ky 40602

Mr. Welch,

Enclosed with this cover letter is the reliability report for the year of 2007 as required per case/order number 2006-00494. Within this report you will find the SAIDI, CAIDI, and SAIFI indices for the last 5 years as Meade County RECC has measured, recorded, and reported it internally for many years. These indices are calculated in two manners: (1) with all outages and (2) without all power supplier and storm related outages. No major event days are calculated or excluded in these indices.

Also included is MCRECC's system summary depicting the three indices excluding the calculated major event days as IEEE 1366 prescribes. Due to the large undertaking necessary to convert and incorporate the previous four years of data into these calculations, this method was used for 2007's outage numbers only.

The next page contains the results of the 10 worst performing circuits within MCRECC's system per index. Each circuit is listed with its corresponding calculated index value along with its largest contributing factor. Major event days are excluded in these calculations.

The last page lists the top ten causes of system outages per index. The corresponding index value is listed with that cause and, again, major event days are excluded.

With this packet, a CD is included which contains all but this cover letter and the five-year reliability report as described in the first paragraph. If you should have any questions or concerns, you may contact me at (270) 422-2911, ext. 3149.

Sincerely,

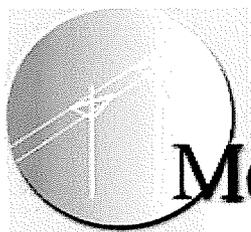
David R. Poe
Vice President of Operations & Engineering

Meade County RECC

1351 Highway 79

Brandenburg Kentucky 40108

System Reliability Study 2007



Meade County RECC

Reliability Indices for 2003 - 2007

		2003	2004	2005	2006	2007
Including all outages	SAIDI	109.800	626.070	152.322	214.554	96.006
	CAIDI	89.526	2440.044	126.084	116.568	69.708
	SAIFI	1.227	3.897	1.208	1.841	1.377
Excluding outages due to power supplier and storms	SAIDI	45.222	63.120	39.882	61.758	46.824
	CAIDI	68.916	78.486	70.566	72.924	83.724
	SAIFI	0.656	0.804	0.565	0.847	0.559

SAIDI and CAIDI vaules are expressed in minutes

Meade County RECC System Summary

(Excluding Major Event Days)

2007

Outage Time	Customers Affected	Total Outage Time	Customers Served	CAIDI	SAIFI	SAIDI
76591	30599	1355939	27675	44.313	1.106	48.995

Top 10 worst performing circuit by each index

System Average Interruption Duration Index

Meade County RECC		
SAIDI Top 10 Circuits		Largest Contributing Cause
Irvington 1	267.0425	Public / Consumer
Brandenburg 1	236.5068	Public / Consumer
Fordsville 3	201.6489	Public / Consumer
Doe Valley 3	178.7047	Storms
Battletown 2	171.5156	Storms
Union Star 2	117.5841	Public / Consumer
Battletown 3	104.9568	Storms
Irvington 5	94.1121	Storms
Custer 3	86.1643	Storms
Garrett 4	84.5000	Conductor

System Average Interruption Frequency Index

Meade County RECC		
SAIFI Top 10 Circuits		Largest Contributing Cause
Brandenburg 1	4.4630	Public / Consumer
Irvington 1	3.8880	Public / Consumer
Battletown 2	3.2691	Power Supplier
Garrett 4	2.7273	Power Supplier
Doe Valley 3	2.4116	Storms
Brandenburg 3	2.1384	Animals / Wildlife
Fordsville 2	2.0886	Power Supplier
Union Star 2	2.0029	Trees - Out of row
Andyville 1	1.9570	Power Supplier
Garrett 2	1.9063	Power Supplier

Customer Average Interruption Duration Index

Meade County RECC		
CAIDI Top 10 Circuits		Largest Contributing Cause
Hardinsburg II 4	171.7143	Transformer
Irvington 6	156.7500	Pre-Arranged
Mc Daniels 1	153.4245	Conductor
Irvington 5	150.0338	Public / Consumer
Hardinsburg II 3	130.0000	Transformer
Fordsville 3	118.7161	Public / Consumer
Union Star 3	115.5200	Storms
Battletown 2	104.9307	Transformer
Mc Daniels 3	101.2210	Trees - Out of row
Harned 2	98.3000	Trees - In row

Top 10 contributing causes by each index

System Average Interruption Duration Index

SAIDI	
Storms	16.987
Public / Consumer	8.218
Power Supplier	4.960
Trees - Out of row	3.319
Animals / Wildlife	3.299
Unknown	3.142
Conductor	2.845
Pre-Arranged	1.891
Hardware	1.516
Transformer	1.062

System Average Interruption Frequency Index

SAIFI	
Power Supplier	0.574
Storms	0.175
Public / Consumer	0.081
Animals / Wildlife	0.065
Unknown	0.048
Trees - Out of row	0.041
Pre-Arranged	0.038
Conductor	0.029
Hardware	0.020
Transformer	0.013

Customer Average Interruption Duration Index

CAIDI	
Public / Consumer	100.912
Conductor	97.198
Storms	96.977
Transformer	84.195
Trees - Out of row	80.432
Trees - In row	80.037
Hardware	76.174
Unknown	65.083
Animals / Wildlife	50.443
Pre-Arranged	49.993

Pre-Arranged

49.993