



Meade County RECC

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RECEIVED

APR - 5 2010

PUBLIC SERVICE
COMMISSION

April 2, 2010

DIRECTOR OF ENGINEERING
KENTUCKY PUBLIC SERVICE COMMISSION
P O BOX 615
211 SOWER BLVD
FRANKFORT KY 40602

Dear Sir or Madam:

Enclosed with this cover letter is the reliability report for the year 2009 as required per case/order number 2006-00494. Please pardon the lateness of this report, for we still must manually integrate old data into the newer data, which is provided by more automated means. Meade County RECC is amidst the integration of our new outage management system. Within this report, you will find the SAIDI, CAIDI and SAIFI indices for the last five (5) years as Meade County 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.

Also included is MCRECC's system summary depicting the three (3) indices excluding the calculated major event days as IEEE 1366 prescribes. Due to the large undertaking necessary to convert and incorporate prior data into these calculations, this method was used for 2007 - 2009 outage numbers only.

The report also depicts the worst ten (10) performing circuits and their causes for each index within the system. The ten (10) leading causes for each index are also included in the report. Major event days are excluded in each of these categories.

Included in this packet is a CD, 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 @ (270) 422-2911, ext. 3149.

Sincerely,

David R. Poe, Vice President
Operations & Engineering

DRP:chc

enclosures

Meade County RECC

System Reliability Study

2009

Meade County RECC System Summary (Excluding Major Event Days) 2008					
Customers Affected 61527	Total Outage Time 7950552	Customers Served 27675	CAIDI 129.221	SAIFI 2.223	SAIDI 287.283
Major Event Day Threshold (SAIDI) - 42.78					

Reliability Indices for 2004 - 2008

		2005	2006	2007	2008*	2009*
All Outage Instances	SAIDI	152.322	214.554	96.006	179.802	129.221
	CAIDI	126.084	116.568	69.708	101.301	2.223
	SAIFI	1.208	1.841	1.377	1.775	287.283
All Outage Instances - Excluding Storms & Power Supplier	SAIDI	39.882	61.758	46.824	80.045	92.264
	CAIDI	70.566	72.924	83.724	69.585	38.855
	SAIFI	0.565	0.847	0.559	1.15	2.375

* This year is with major event days excluded

Top 10 Worst Performing Circuits by Indices

Meade County RECC		
SAIDI Top 10 Circuits		Largest Contributing Cause
Custer 1	2648.0	Storms
Battletown 2	2346.7	Storms
Flaherty 1	780.7	Storms
Custer 2	666.2	Storms
Irvington 3	618.4	Storms
Custer 3	599.2	Storms
Irvington 2	491.9	Storms
Harned 1	485.0	Storms
Fordsville 4	447.1	Storms
Battletown 3	385.9	Storms

Meade County RECC		
CAIDI Top 10 Circuits		Largest Contributing Cause
Battletown 2	3062.5000	Storms
Flaherty 3	1014.6000	Storms
Custer 1	867.2000	Storms
Custer 2	591.3000	Storms
Brandenburg 6	376.8000	Storms
Fordsville 4	329.0000	Storms
Andyville 2	214.3000	Storms
Doe Valley 2	183.0000	Storms
Garrett 1	177.4000	Storms
Garrett 6	169.6000	Storms

Meade County RECC		
SAIFI Top 10 Circuits		Largest Contributing Cause
Irvington 3	7.2000	Unknown
Flaherty 1	6.6000	Storms
Irvington 2	5.8000	Unknown
Irvington 5	5.4000	Unknown
Irvington 6	4.9000	Unknown
Irvington 1	4.7000	Unknown
Irvington 4	4.5000	Unknown
Hardinsburg-2 3	4.4000	Animal/Wildlife
Custer 3	4.3000	Storms
Harned 1	4.1000	Public/Consumer

Top 10 Leading Cause per Indices

CAIDI	
Storms	298.258
Broken Pole	116.033
Trees - Out of row	99.218
Sectional Devices	97.865
Pre-Arranged	94.063
Trees - In row	92.585
Conductor	80.702
Transformer	66.000
Hardware	64.437
Animals / Wildlife	62.407

SAIFI	
Storms	0.587
Unknown	0.536
Pre-Arranged	0.213
Public / Consumer	0.180
Animals / Wildlife	0.140
Power Supplier	0.092
Conductor	0.090
Hardware	0.083
Trees - Out of row	0.078
Broken Pole	0.033

SAIDI	
Storms	175.105
Unknown	30.322
Pre-Arranged	19.994
Public / Consumer	10.942
Animals / Wildlife	8.726
Trees - Out of row	7.707
Conductor	7.272
Hardware	5.327
Broken Pole	3.861
Power Supplier	2.340

Meade County RECC System Reliability Study 2009

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