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MAR 15 2010

PUBLIC SERVICE
COMMISSION

March 10, 2010

Director of Engineering
Kentucky Public Service Commission
211 Sower Blvd.
PO Box 615
Frankfort, KY 40602-0615

Re: Jackson Energy Cooperative: 2009 Annual Reliability Report
Administrative Case No. 2006-00494

Jackson Energy Cooperative respectfully submits the 2009 Annual Reliability Report per the order dated October 26, 2007 in Administrative Case No. 2006-00494.

Please inform me if any further information is required.

Sincerely,

A handwritten signature in black ink, appearing to read "J. Warren Keller", is written over a faint, larger version of the same signature.

J. Warren Keller
Attorney for Jackson Energy Cooperative

JWK/cr

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 1: CONTACT INFORMATION

UTILITY NAME	1.1	<u>Jackson Energy Cooperative Corp.</u>
REPORT PREPARED BY	1.2	<u>Carol Wright</u>
E-MAIL ADDRESS OF PREPARER	1.3	<u>carolwright@jacksonenergy.com</u>
PHONE NUMBER OF PREPARER	1.4	<u>1-800-262-7480 EXT. 9213</u>

SECTION 2: REPORT YEAR

CALENDAR YEAR OF REPORT	2.1	<u>2009</u>
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SECTION 3: MAJOR EVENT DAYS

T_{MED}	3.1	<u>10.124 minutes</u>
FIRST DATE USED TO DETERMINE T_{MED}	3.2	<u>1/2/2005</u>
LAST DATE USED TO DETERMINE T_{MED}	3.3	<u>12/31/2009</u>
NUMBER OF MED IN REPORT YEAR	3.4	<u>10</u>

NOTE: Per IEEE 1366 T_{MED} should be calculated using the daily SAIDI values for the five prior years. If five years of data are not available, then utilities should use what is available until five years are accumulated.

SECTION 4: SYSTEM RELIABILITY RESULTS

Excluding MED

SAIDI	4.1	<u>181.334</u>
SAIFI	4.2	<u>1.6963</u>
CAIDI	4.3	<u>106.8979</u>

Including MED (Optional)

SAIDI	4.4	<u>1375.7025</u>
SAIFI	4.5	<u>3.1552</u>
CAIDI	4.6	<u>436.0057</u>

Notes:

- 1) All duration indices (SAIDI, CAIDI) are to be reported in units of minutes.
 - 2) Reports are due on the first business day of April of each year
 - 3) Reports cover the calendar year ending in the December before the reports are due.
 - 4) IEEE 1366 (latest version) is used to define SAIDI, SAIFI, CAIDI, and T_{MED}
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SECTION 5: OUTAGE CAUSE CATEGORIES

Excluding MED

CAUSE CODE DESCRIPTION		SAIDI VALUE	CAUSE CODE DESCRIPTION		SAIFI VALUE
Aircraft	5.1.1	0	Aircraft	5.2.1	0
Animal/Bird	5.1.2	4.0636	Animal/Bird	5.2.2	0.0754
Bad Connection	5.1.3	0.1555	Bad Connection	5.2.3	0.0019
Customer Responsible	5.1.4	0.0067	Customer Responsible	5.2.4	0.0001
Deterioration	5.1.5	2.0895	Deterioration	5.2.5	0.0154
Equipment	5.1.6	17.8806	Equipment	5.2.6	0.2291
Fire	5.1.7	0.2619	Fire	5.2.7	0.0017
Ice	5.1.8	13.0059	Ice	5.2.8	0.0256
Large Animal	5.1.9	0.0060	Large Animal	5.2.9	0.0001
Lightning	5.1.10	10.2665	Lightning	5.2.10	0.1074
Maintenance	5.1.11	1.0023	Maintenance	5.1.11	0.0347
Major Storm	5.1.12	14.0532	Major Storm	5.1.12	0.0517
Other Utilities	5.1.13	0.6338	Other Utilities	5.1.13	0.0211
Overload	5.1.14	0.5829	Overload	5.1.14	0.0093
Power Supplier	5.1.15	67.8025	Power Supplier	5.1.15	0.2862
ROW Crew	5.1.16	0.2353	ROW Crew	5.1.16	0.0036
Scheduled	5.1.17	11.0118	Scheduled	5.1.17	0.2245
Squirrel	5.1.18	6.2624	Squirrel	5.1.18	0.0861
Tree/Limb in ROW	5.1.19	4.6118	Tree/Limb in ROW	5.1.19	0.0502
Tree/Limb out of ROW	5.1.20	58.5114	Tree/Limb out of ROW	5.1.20	0.4457
Unknown Cause	5.1.21	19.6351	Unknown Cause	5.1.21	0.2793
Vandals	5.1.22	0.0806	Vandals	5.1.22	0.0008
Vehicles	5.1.23	5.8153	Vehicles	5.1.23	0.0953
Wind	5.1.24	10.1715	Wind	5.1.24	0.0300
Woodcutter	5.1.25	1.6345	Woodcutter	5.1.25	0.0142

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SECTION 6: WORST PERFORMING CIRCUITS

<u>CIRCUIT IDENTIFIER</u>		<u>SAIDI</u> <u>VALUE</u>	<u>MAJOR OUTAGE CATEGORY</u>
Millers Creek - Cobb Hill F1	6.1.1	864.8618	Major Storm
Goose Rock - Schoohouse F4	6.1.2	720.0221	Major Storm
Goose Rock - Brightshade F3	6.1.3	628.5744	Equipment
Booneville - Lerosé F1	6.1.4	521.9994	Tree/Limb Out of ROW
Big Creek - Bear Branch F2	6.1.5	484.7476	Major Storm
Greenbriar - Island Creek F2	6.1.6	478.1810	Unkown Cause
Beattyville - Heidelberg F3	6.1.7	475.5516	Lightning
Three Links - Disputanta F3	6.1.8	441.1320	Tree/Limb Out of ROW
Beattyville - St. Helens F2	6.1.9	399.5201	Tree/Limb Out of ROW
Oneida - Road Run F1	6.1.10	378.0170	Major Storm

<u>CIRCUIT IDENTIFIER</u>		<u>SAIFI</u> <u>VALUE</u>	<u>MAJOR OUTAGE CATEGORY</u>
Three Links - Disputanta F3	6.2.1	6.6322	Tree/Limb Out of ROW
Goose Rock - Schoohouse F4	6.2.2	6.5214	Major Storm
Greenbriar - Island Creek F2	6.2.3	5.8252	Unkown Cause
Beattyville - Heidelberg F3	6.2.4	5.3793	Lightning
Beattyville - St. Helens F2	6.2.5	4.3843	Tree/Limb Out of ROW
Pine Grove 1 - Maple Grove F4	6.2.6	4.2520	Lightning
Booneville - Lerosé F1	6.2.7	4.0115	Tree/Limb Out of ROW
Booneville - Levi F3	6.2.8	3.8758	Vehicles
McKee - Indian Creek F3	6.2.9	3.8235	Deterioration
Oneida - Little Bullskin F2	6.2.10	3.3889	Lightning

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Additional pages may be attached as necessary
SECTION 7: VEGETATION MANAGEMENT PLAN REVIEW

A revised copy of Jackson Energy's Vegetation Management Plan has been attached. Jackson Energy maintains an aggressive Vegetation Management Plan with the results providing improved reliability.

The worst performing circuits listed in Section 6 related to trees are all "Out of the ROW" categories. Our ROW has a maximum width of 40 feet and since our service territory is in the National Forest, there are trees that grow in heights exceeding the width of our ROW. Jackson Energy does identify "hazard" trees out of the ROW and removes them with the permission of the property owner.

SECTION 8: UTILITY COMMENTS

Greenbriar - Island Creek F2 had outages due to an Unknown Cause on 4-30-09 and 5-28-09 that outaged the entire feeder. On 6-30-09 an outage occurred for this entire feeder and a bad insulator was found on the main line.

Major Storm is listed as the predominant outage cause for many of the feeders under the SAIDI and SAIFI categories above. Here are some SAIDI numbers for 2009.

The T-MED for 2009 was 10.124.

The SAIDI for 1-30-09 was 9.637 following 3 MED's.

The SAIDI for 2-12-09 was 6.908 following a MED.

The SAIDI for 6-19-09 was 6.209 following a MED.

The SAIDI for 12-21-09 was 5.434 following 3 MED's.

These 4 days were not MED's, but they followed MED's and were continuations of the storms that caused the MED's.