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April 2, 2012

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Director of Engineering Kentucky Public Service Commission 211 Sower Blvd. PO Box 615 Frankfort, KY 40602-0615 APR 04 2012

PUBLIC SERVICE

COMMISSION

RE: Jackson Purchase Energy Corporation: 2011 Annual Reliability Report Administrative Case No. 2006-00494

To Whom It May Concern:

Jackson Purchase Energy Corporation respectfully submits the 2011 Annual Reliability Report per the order dated October 26, 2007 in Administrative Case No. 2006-00494.

Please let me know if you have any questions.

Sincerely,

Craig Gerke

Interim Vice President of Engineering

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 1: CONTACT INFORMATION

REPORT PREPARED BY 1.2 Craig Gerke

E-MAIL ADDRESS OF PREPARER 1.3 craig.gerke@jpenergy.com

PHONE NUMBER OF PREPARER 1.4 270-442-7321

SECTION 2: REPORT YEAR

CALENDAR YEAR OF REPORT 2.1 2011

SECTION 3: MAJOR EVENT DAYS

TMED	3.1	19.37984803
FIRST DATE USED TO DETERMINE TMED	3.2	1/1/2006
LAST DATE USED TO DETERMINE TMED	3.3	12/31/2010
NUMBER OF MED IN REPORT YEAR	3.4	1

NOTE: Per IEEE 1366 TMED 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	181.03
SAIFI	4.2	1.775
CAIDI	4.3	101.977

Including MED (Optional)

SAIDI	4.4	257.650	
SAIFI	4.5	2.020	
CAIDI	4.6	127.850	

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 TMED

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SECTION 5: OUTAGE CAUSE CATEGORIES Excluding MED

CAUSE CODE DESCRIPTION		SAIDI VALUE	CAUSE CODE DESCRIPTION		SAIFI VALUE
Storms (Non ME Days)	5.1.1	66.29625	Storms (Non ME Days)	5.2.1	0.441393
Line Equipment	5.1.2	40.19351	Line Equipment	5.2.2	0.431252
ROW	5.1.3	17.98433	Substation	5.2.3	0.178181
Substation	5.1.4	12.76072	ROW	5.2.4	0.140941
Cut Out - Line or XFMR	5.1.5	8.241789	Cut Out - Line or XFMR	5.2.5	0.111445
Lightning	5.1.6	7.53088	Animal	5.2.6	0.108601
Public	5.1.7	6.428666	Public	5.2.7	0.092602
Animal	5.1.8	5.011371	Lightning	5.2.8	0.069443
Wire Primary	5.1.9	4.475595	Planned	5.2.9	0.060673
OCR / Breaker	5.1.10	1.959135	Wire Primary	5.2.10	0.030799

SECTION 6: WORST PERFORMING CIRCUITS

		SAIDI	
CIRCUIT IDENTIFIER		VALUE	MAJOR OUTAGE CATEGORY
4705	6.1.1	1014.178	Storms
4701	6.1.2	981.7876	Storms
3201	6.1.3	743.9869	Line Equipment
4004	6.1.4	719.9869	Storms
505	6.1.5	637.1729	Lightning
3901	6.1.6	586.0229	Storms
4302	6.1.7	582.5928	Storms
4903	6.1.8	560.3454	Storms
4703	6.1.9	521.8356	Storms
5001	6.1.10	519.4277	Storms
		0.4151	
		SAIFI	
CIRCUIT IDENTIFIER		VALUE	MAJOR OUTAGE CATEGORY
CIRCUIT IDENTIFIER 3901	6.2.1		Storms
	6.2.2	VALUE	Storms Line Equipiment
3901		VALUE 5.885496	Storms
3901 7705	6.2.2	VALUE 5.885496 5.511364	Storms Line Equipiment
3901 7705 505	6.2.2 6.2.3	VALUE 5.885496 5.511364 5.471186	Storms Line Equipiment Lightning
3901 7705 505 3201	6.2.2 6.2.3 6.2.4	VALUE 5.885496 5.511364 5.471186 5.219895	Storms Line Equipiment Lightning Line Equipment
3901 7705 505 3201 3104	6.2.2 6.2.3 6.2.4 6.2.5	VALUE 5.885496 5.511364 5.471186 5.219895 4.753507	Storms Line Equipiment Lightning Line Equipment Storms
3901 7705 505 3201 3104 4705	6.2.2 6.2.3 6.2.4 6.2.5 6.2.6	VALUE 5.885496 5.511364 5.471186 5.219895 4.753507 4.251462	Storms Line Equipiment Lightning Line Equipment Storms Storms
3901 7705 505 3201 3104 4705 4204	6.2.2 6.2.3 6.2.4 6.2.5 6.2.6 6.2.7	VALUE 5.885496 5.511364 5.471186 5.219895 4.753507 4.251462 4.239533	Storms Line Equipiment Lightning Line Equipment Storms Storms Storms
3901 7705 505 3201 3104 4705 4204 4703	6.2.2 6.2.3 6.2.4 6.2.5 6.2.6 6.2.7 6.2.8	VALUE 5.885496 5.511364 5.471186 5.219895 4.753507 4.251462 4.239533 3.933333	Storms Line Equipiment Lightning Line Equipment Storms Storms Storms Storms Storms

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SECTION 7: VEGETATION MANAGEMENT PLAN REVIEW

JPEC is satisfied that its current VMP is being implemented properly. Since we have adopted our current four year rotation and become vigilant in our spraying efforts, our right-of-way related outages have remained low when compared to pervious years. No changes will be implemented to the plan in the coming year.	
SECTION 8: UTILITY COMMENTS	