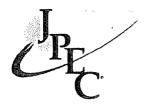
P.O. Box 4030 2900 Irvin Cobb Drive Paducah, KY 42002-4030 270.442,7321 Main 270.442.5337 Main Fax



10:	Dire	ector of Engineeri	ng	rioiii.	Craig Gerke	2
Fax:	502	-564-3460		Fax:	270-441-0	866
Phone	2:			Date:	April 2, 201	12
Re:	201	1 Annual Reliabili	ty Report	Pages:	5 including	the cover
□ Urg	gent	X For Review	☐ Please Comme	nt 🔲 Ple	ease Reply	☐ Please Recycle
Please	find a	ttached our 2011	Annual Reliability Re	port.		
flcan	be of	further assistance	, please contact me	at 270-441	1-0842.	
Thank	you,				RE	CEIVED
Craig	ı Gov	·60			Į.	APR 03 2012
			ring and Opera	tions	PUE C(BLIC SERVICE DMMISSION



Jackson Purchase Energy P.O. Box 4030 • 2900 Irvin Cobb Drive Paducah, KY 42002-4030 270.442.7321 • 800.633.4044

Your Cooperative Partner by Choice Online at JPEnergy com

April 2, 2012

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

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

04/02/2012 16:03 #365 P.003/005

From:

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report				
SECTION 1: CO	NTACT	INFORMATION		
UTILITY NAME REPORT PREPARED BY E-MAIL ADDRESS OF PREPARER PHONE NUMBER OF PREPARER	1.1 1.2 1.3 1.4	Jackson Purchase Energy Corporation Craig Gerke craig.gerke@jpenergy.com 270-442-7321		
SECTION	2: REP	ORT YEAR		
CALENDAR YEAR OF REPORT	2.1	2011		
SECTION 3:	MAJOR	EVENT DAYS		
TMED FIRST DATE USED TO DETERMINE TMED LAST DATE USED TO DETERMINE TMED	3.1 3.2 3.3	19.37984803 1/1/2006 12/31/2010		

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.

3.4

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	

1

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

NUMBER OF MED IN REPORT 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

Electric Distribution Utility Annual Reliability Report

04/02/2012 16:03

KENTUCKY PUBLIC SERVICE COMMISSION

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

		CAIDI	
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
		SAIFI	
CIRCUIT IDENTIFIER		VALUE	MAJOR OUTAGE CATEGORY
3901	6.2.1	5.885496	Storms
7705	6.2.2	5.511364	Line Equipiment
505	6.2.3	5.471186	Lightning
3201	6.2.4	5.219895	Line Equipment
3104	6.2.5	4.753507	Storms
4705	6.2.6	4.251462	Storms
4204	6.2.7	4.239533	Storms
4703	6.2.8	3.933333	Storms
4701	6.2.9	3.694981	Storms
3102	6.2.10	3.675079	Storms

KENTUCKY PUBLIC SERVICE COMMISSION

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					