

Jackson Purchase Energy P.O. Box 4030 • 2900 Irvin Cobb Drive Paducah, KY 42002-4030 270/442-7321 • 800/633-4044

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March 28, 2008

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Director of Engineering Public Service Commission P.O. Box 615 Frankfort, KY 40602 APR - 1 2008 PUBLIC SERVICE COMMISSION

Re: Jackson Purchase Energy Corporation 2007 Reliability Report

Mr. Welch:

Enclosed is a copy on CD of Jackson Purchase Energy Corporation's (JPEC) submittal of the 2007 Reliability Report required by the Public Service Commission's order in Administrative Case No. 2006-00494.

If you need any additional information, please let us know.

Sincerely,

JACKSON PURCHASE ENERGY CORPORATION

By

Fracy A. Bensley, P.E. Vice President of Engineering & Operations

Cc: Mr. Kelly Nuckols, JPEC President/CEO



Jackson Purchase Energy Corporation Annual Reliability Report - 2007

System Statistics:

<u>Calendar Year</u>	<u>SAIFI</u>	SAIDI (minutes)	CAIDI (minutes)
2002*	1.735	151.592	87.365
2003*	2.128	224.204	105.345
2004*	2.416	199.254	82.473
2005*	1.593	109.646	68.845
2006*	2.596	390.298	150.321
2007** (all inclusive)	1.986	177.592	89.439
2007** (w/o major events)	1.814	155.638	85.821

* Note: IEEE Standard 1366 could not be used in the calculations for years 2002-2006 as data is not available for daily SAIDI values until the calendar year 2006. Daily SAIDI values for 2006 were used to calculate major event days for 2007, per this standard.

** Note: The indices reported for 2007 are calculated including and excluding major event day data. The only major event day per IEEE Standard 1366 was June 23.

Vegetation Management Plan (VMP) Implementation:

JPEC is satisfied that its current VMP is being implemented properly and is providing adequate results as indicated by the drop in outages attributed to right-of-way from 251 in the calendar year 2006 to 142 in the calendar year 2007. No changes will be implemented to the plan in the coming year.

Jackson Purchase Energy Corporation Annual Reliability Report - 2007

Contributing Causes:

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Feeder Statistics:

Feeder - SAIFI	Index Value	Major Outage Category
3202	5.795	Storms
1502	4.000	Animal
6104	3.913	Public
1404	3.884	Right-of-way
3201	3.458	Line Equipment
4902	3.458	Right-of-way
4702	3.439	Storms
4705	3.397	Right-of-way
4003	3.136	OCR/Breaker
2802	3.058	Weather
Feeder - SAIDI	Index Value	Major Outage Category
6102	722.458	Public
1404	697.550	Storms
3202	631.196	Storms
4503	513.000	Line Equipment
4705	449.035	Storms
501	441.865	Storms
7702	404.551	Wire, Primary
6104	358.695	Public
1502	358.375	Animal
4702	338.408	Storms
Feeder - CAIDI	Index Value	Major Outage Category
6102	410.619	Public
501	368.221	Storms
505	362.368	Storms
4503	256.500	Line Equipment
7601	234.415	Right-of-way
4203	233.385	Storms
5003	225.875	Animal
1902	190.143	Cutout - Line or Transformer
1404	179.592	Storms
7401	179.307	Cutout - Line or Transformer