




A Touchstone Energy Cooperative 

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McKee, Kentucky 40447
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RECEIVED

JUN 27 2014

PUBLIC SERVICE
COMMISSION

June 25, 2014

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

Re: Jackson Energy Cooperative: 2013 Annual Reliability Report
Administrative Case No. 2011-00450

Jackson Energy Cooperative respectfully submits the 2013 Annual Reliability report per the order dated July 9, 2013 in Administrative Case No. 2011-00450.

Please inform me if any further information is required.

Sincerely,

A handwritten signature in black ink that reads "Derrick Dean". The signature is fluid and cursive.

Derrick Dean
Chief Operations Officer

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 1: CONTACT INFORMATION

UTILITY NAME	Jackson Energy Cooperative
REPORT PREPARED BY	Ricky Caudill
E-MAIL ADDRESS OF PREPARER	rickcaudill@jacksonenergy.com
PHONE NUMBER OF PREPARER	606-364-9217

SECTION 2: REPORT YEAR

CALENDAR YEAR OF REPORT	2013
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SECTION 3: MAJOR EVENT DAYS

T_{MED}	13.115
FIRST DATE USED TO DETERMINE T_{MED}	1/1/2013
LAST DATE USED TO DETERMINE T_{MED}	12/31/2013
NUMBER OF MED IN REPORT YEAR	2

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 INFORMATION AND RESULTS

System-wide Information			
TOTAL CUSTOMERS		TOTAL CIRCUITS	112
Excluding MED			
	5 YEAR AVERAGE		REPORTING YEAR
SAIDI	172.80	SAIDI	165.54
SAIFI	1.5478	SAIFI	1.3824
Including MED			
	5 YEAR AVERAGE		REPORTING YEAR
SAIDI	451.29	SAIDI	209.99
SAIFI	1.9617	SAIFI	1.5377

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: CIRCUIT REPORTING

(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1:

1. SUBSTATION NAME AND NUMBER Annville
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Welchburg Egypt Rd., Annville KY 40402
3. CIRCUIT NAME AND NUMBER Tyner F1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Jackson County feeding toward Tyner
5. TOTAL CIRCUIT LENGTH (MILES) 4.9
6. CUSTOMER COUNT FOR THIS CIRCUIT 32
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2012
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Scheduled	100.0%	100.0%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 26.62149
10. REPORTING YEAR (SAIDI) 45.09375
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.591466
12. REPORTING YEAR (SAIFI) 1.21875
13. CORRECTIVE ACTION PLAN None

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CIRCUIT #3:

1. SUBSTATION NAME AND NUMBER Beattyville
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
1251 HWY 52 East, Beattyville, KY 41311
3. CIRCUIT NAME AND NUMBER Bear Track F4
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Area between HWY 52 and HWY1144 west of Beattyville
5. TOTAL CIRCUIT LENGTH (MILES) 42.7
6. CUSTOMER COUNT FOR THIS CIRCUIT 539
7. DATE OF LAST CIRCUIT TRIM (VM) 2011
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI
Animal / Bird	0.3%
Equipment	0.1%
Lightning	0.2%
Scheduled	0.5%
Squirrel	0.1%
Tree/Limb in ROW	0.2%
Tree/Limb out of ROW	66.6%
Unknown Cause	2.6%
Vehicles	14.3%
Wind	15.1%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 141.6823
10. REPORTING YEAR (SAIDI) 152.2801
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.635996
12. REPORTING YEAR (SAIFI) 1.361781
13. CORRECTIVE ACTION PLAN

Jackson Energy attempts to identify and remove trees that pose an outage risk but are located outside of the Right-of-Way (ROW).

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CIRCUIT #4:

1. SUBSTATION NAME AND NUMBER Big Creek
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
100 North Hwy. 66, Manchester, KY 40962
3. CIRCUIT NAME AND NUMBER Bear Branch F2
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding East along HWY 421 in Big Creek Area
5. TOTAL CIRCUIT LENGTH (MILES) 8
6. CUSTOMER COUNT FOR THIS CIRCUIT 187
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2008
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	0.1%	0.3%
Bad Connection	0.2%	0.2%
Equipment	40.7%	60.3%
Scheduled	45.7%	29.1%
Tree/Limb in ROW	2.7%	4.2%
Wind	10.6%	5.9%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 432.595
10. REPORTING YEAR (SAIDI) 496.5936
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 2.87974
12. REPORTING YEAR (SAIFI) 3.438503
13. CORRECTIVE ACTION PLAN
Temporary jumper for line work fixed and later removed when line work completed. Damaged lightning arrester replaced.

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CIRCUIT #5:

1. SUBSTATION NAME AND NUMBER Booneville
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Kash Brandenburg Cemetery Rd., Bonneville, KY 41314
3. CIRCUIT NAME AND NUMBER Lerose F1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Along HWY 30 to Lerose in Owsley County
5. TOTAL CIRCUIT LENGTH (MILES) 30.7
6. CUSTOMER COUNT FOR THIS CIRCUIT 456
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2009
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI
Animal / Bird	0.1%
Lightning	2.3%
Maintenance	0.5%
Scheduled	1.4%
Tree/Limb in ROW	4.1%
Tree/Limb out of ROW	2.8%
Unknown Cause	4.2%
Vehicles	82.4%
Wind	2.2%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 197.616
10. REPORTING YEAR (SAIDI) 198.1053
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.532553
12. REPORTING YEAR (SAIFI) 1.381579
13. CORRECTIVE ACTION PLAN
Vehicle broke a pole. The pole was replaced.

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #6:

1. SUBSTATION NAME AND NUMBER Booneville
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Kash Brandenburg Cemetery Rd., Bonneville, KY 41314
3. CIRCUIT NAME AND NUMBER Scoville F2
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding City of Booneville and Southwest along HWY 11 toward South Fork
5. TOTAL CIRCUIT LENGTH (MILES) 29.6
6. CUSTOMER COUNT FOR THIS CIRCUIT 511
7. DATE OF LAST CIRCUIT TRIM (VM) 2008
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI
Animal / Bird	0.6%
Bad Connection	0.3%
Lightning	23.1%
Other Utilities	4.3%
Scheduled	7.6%
Squirrel	0.2%
Tree/Limb in ROW	6.8%
Tree/Limb out of ROW	27.7%
Unknown Cause	12.3%
Vines/Kudzu	15.4%
Wind	1.7%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 74.33437
10. REPORTING YEAR (SAIDI) 80.04892
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.977301
12. REPORTING YEAR (SAIFI) 0.937378
13. CORRECTIVE ACTION PLAN

Jackson Energy attempts to identify and remove trees that pose an outage risk but are located outside of the Right-of-Way (ROW).

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #7:

1. SUBSTATION NAME AND NUMBER Brodhead
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Hwy 1505, Brodhead, KY 40409
3. CIRCUIT NAME AND NUMBER Brindle Ridge F1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Along HWY 1505 east of Brodhead and north of Mt Vernon
5. TOTAL CIRCUIT LENGTH (MILES) 74.2
6. CUSTOMER COUNT FOR THIS CIRCUIT 716
7. DATE OF LAST CIRCUIT TRIM (VM) 2011
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	0.8%	1.1%
Deterioration	1.4%	1.2%
Equipment	0.5%	0.6%
Large Animal	0.1%	0.2%
Lightning	2.9%	2.2%
Maintenance	0.02%	0.1%
Scheduled	2.5%	1.2%
Squirrel	5.4%	5.3%
Tree/Limb in ROW	0.2%	0.5%
Tree/Limb out of ROW	38.5%	53.5%
Unknown Cause	7.3%	9.0%
Vines/Kudzu	0.3%	0.2%
Wind	39.9%	25.2%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 171.59
10. REPORTING YEAR (SAIDI) 298.3547
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.473048
12. REPORTING YEAR (SAIFI) 2.768156
13. CORRECTIVE ACTION PLAN
Jackson Energy attempts to identify and remove trees that pose an outage risk but are located outside of the Right-of-Way (ROW).

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #8:

1. SUBSTATION NAME AND NUMBER Brodhead
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Hwy 1505, Brodhead, KY 40409
3. CIRCUIT NAME AND NUMBER Orlando F2
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding Southeast of Brodhead toward Mt Vernon and Renfro Valley
5. TOTAL CIRCUIT LENGTH (MILES) 34.4
6. CUSTOMER COUNT FOR THIS CIRCUIT 302
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2010
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIFI
Animal / Bird	4.1%
Lightning	4.4%
Maintenance	1.5%
Major Storm	0.2%
Scheduled	17.3%
Squirrel	16.5%
Tree/Limb out of ROW	2.4%
Unknown Cause	51.1%
Wind	2.4%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 113.9509
10. REPORTING YEAR (SAIDI) 108.6026
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.039139
12. REPORTING YEAR (SAIFI) 1.360927
13. CORRECTIVE ACTION PLAN

Jackson Energy field personnel attempt to identify the cause of every outage.

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #9:

1. SUBSTATION NAME AND NUMBER Brodhead
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Hwy 1505, Brodhead, KY 40409
3. CIRCUIT NAME AND NUMBER Ottowa F3
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding area Southwest of Brodhead including Ottowa community
5. TOTAL CIRCUIT LENGTH (MILES) 50
6. CUSTOMER COUNT FOR THIS CIRCUIT 447
7. DATE OF LAST CIRCUIT TRIM (VM) 2010
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	2.5%	4.2%
Equipment	4.6%	4.2%
Lightning	51.9%	58.8%
Maintenance	0.03%	0.1%
Squirrel	3.1%	4.2%
Tree/Limb out of ROW	25.4%	14.2%
Unknown Cause	7.1%	8.7%
Vehicles	0.1%	0.1%
Vines/Kudzu	3.2%	4.4%
Wind	2.1%	1.0%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 81.48924
10. REPORTING YEAR (SAIDI) 219.3177
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.69197
12. REPORTING YEAR (SAIFI) 2.053691
13. CORRECTIVE ACTION PLAN

Jackson Energy attempts to identify and remove trees that pose an outage risk but are located outside of the Right-of-Way (ROW).

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #10:

1. SUBSTATION NAME AND NUMBER Brodhead
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Hwy 1505, Brodhead, KY 40409
3. CIRCUIT NAME AND NUMBER Quail F4
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding area South of Brodhead along HWY 70
5. TOTAL CIRCUIT LENGTH (MILES) 67.3
6. CUSTOMER COUNT FOR THIS CIRCUIT 569
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2009
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI
Animal / Bird	0.2%
Equipment	79.7%
Lightning	1.6%
Maintenance	0.5%
Scheduled	1.8%
Squirrel	1.6%
Tree/Limb in ROW	1.5%
Tree/Limb out of ROW	5.7%
Unknown Cause	3.0%
Vehicles	1.8%
Wind	2.1%
Woodcutter	0.6%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 162.9334
10. REPORTING YEAR (SAIDI) 200.1336
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.808165
12. REPORTING YEAR (SAIFI) 1.692443
13. CORRECTIVE ACTION PLAN
Damaged switch removed from service.

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #11:

1. SUBSTATION NAME AND NUMBER Bush
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
6363 Tom Cat Trail, London, KY 40741
3. CIRCUIT NAME AND NUMBER Blackwater F2
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding East along HWY 80 and South along KY1803 toward Blackwater
5. TOTAL CIRCUIT LENGTH (MILES) 45.2
6. CUSTOMER COUNT FOR THIS CIRCUIT 421
7. DATE OF LAST CIRCUIT TRIM (VM) 2012
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	2.2%	2.1%
Bad Connection	0.3%	0.1%
Deterioration	0.9%	0.7%
Equipment	38.8%	42.2%
Ice	0.4%	0.3%
Lightning	3.5%	3.6%
Other Utilities	3.2%	2.9%
Overload	4.7%	4.7%
Squirrel	3.8%	4.9%
Tree/Limb out of ROW	13.3%	6.8%
Unknown Cause	21.9%	27.2%
Wind	7.0%	4.6%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 122.7387
10. REPORTING YEAR (SAIDI) 145.1686
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.133129
12. REPORTING YEAR (SAIFI) 1.712589
13. CORRECTIVE ACTION PLAN
Damaged cross arm replaced.
Jackson Energy field personnel attempt to identify the cause of every outage.

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #12:

1. SUBSTATION NAME AND NUMBER Camprground
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
790 Smith Brewer Rd., London, KY 40744
3. CIRCUIT NAME AND NUMBER Bush F1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding area Norht of 1189 along HWY 521 including Crooked Creek
Country Club and Lesbas
5. TOTAL CIRCUIT LENGTH (MILES) 29.2
6. CUSTOMER COUNT FOR THIS CIRCUIT 511
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2010
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	0.3%	0.5%
Equipment	2.9%	2.1%
Ice	51.3%	26.8%
Maintenance	0.1%	1.1%
Tree/Limb out of ROW	2.4%	1.1%
Unknown Cause	42.1%	67.3%
Wind	1.0%	1.1%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 100.5639
10. REPORTING YEAR (SAIDI) 179.8728
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.975727
12. REPORTING YEAR (SAIFI) 1.704501
13. CORRECTIVE ACTION PLAN
Jackson Energy field personnel attempt to identify the cause of every outage.

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #13:

1. SUBSTATION NAME AND NUMBER Camprground
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
790 Smith Brewer Rd., London, KY 40744
3. CIRCUIT NAME AND NUMBER Camprground F2
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding along HWY 229 South of Hwy 1189
5. TOTAL CIRCUIT LENGTH (MILES) 62.8
6. CUSTOMER COUNT FOR THIS CIRCUIT 865
7. DATE OF LAST CIRCUIT TRIM (VM) 2013
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIFI
Animal / Bird	5.2%
Equipment	0.1%
Lightning	1.5%
Maintenance	5.4%
Major Storm	2.8%
Other Utilities	3.3%
Scheduled	52.5%
Squirrel	0.6%
Tree/Limb in ROW	0.6%
Tree/Limb out of ROW	6.0%
Unknown Cause	21.6%
Vehicles	0.3%
Wind	0.3%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 69.1957
10. REPORTING YEAR (SAIDI) 54.11907
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.82678
12. REPORTING YEAR (SAIFI) 1.028902
13. CORRECTIVE ACTION PLAN

The largest scheduled outage was to allow a ROW crew to safely cut down a tree.

Jackson Energy field personnel attempt to identify the cause of every outage.

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #15:

1. SUBSTATION NAME AND NUMBER Conway
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
US HWY 25, Berea, KY 40403
3. CIRCUIT NAME AND NUMBER Copper Creek F1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding South along US-25 toward Roundstone
5. TOTAL CIRCUIT LENGTH (MILES) 61.6
6. CUSTOMER COUNT FOR THIS CIRCUIT 630
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2009
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	11.8%	12.6%
Bad Connection	0.1%	0.2%
Deterioration	3.9%	5.2%
Equipment	1.5%	0.8%
Ice	15.8%	15.8%
Lightning	7.0%	7.3%
Maintenance	1.4%	1.7%
Scheduled	2.0%	2.5%
Squirrel	0.9%	1.3%
Tree/Limb in ROW	29.1%	21.3%
Unknown Cause	3.0%	6.3%
Vehicles	9.5%	7.5%
Wind	11.1%	15.0%
Woodcutter	3.1%	2.5%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 109.8816
10. REPORTING YEAR (SAIDI) 134.4222
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.816967
12. REPORTING YEAR (SAIFI) 0.953968
13. CORRECTIVE ACTION PLAN
This feeder is scheduled for Right-of-Way clearing in early 2015.

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #16:

1. SUBSTATION NAME AND NUMBER Conway
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
US HWY 25, Berea, KY 40403
3. CIRCUIT NAME AND NUMBER Flat Gap F2
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding North along US-25 toward Berea
5. TOTAL CIRCUIT LENGTH (MILES) 15.3
6. CUSTOMER COUNT FOR THIS CIRCUIT 233
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2008
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	0.1%	0.3%
Lightning	10.9%	33.1%
Tree/Limb in ROW	0.7%	0.7%
Tree/Limb out of ROW	72.7%	54.8%
Unknown Cause	0.1%	0.3%
Wind	15.4%	10.7%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 122.6614
10. REPORTING YEAR (SAIDI) 249.7468
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.839756
12. REPORTING YEAR (SAIFI) 1.283262
13. CORRECTIVE ACTION PLAN

Jackson Energy attempts to identify and remove trees that pose an outage risk but are located outside of the Right-of-Way (ROW).

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #17:

1. SUBSTATION NAME AND NUMBER Conway
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
US HWY 25, Berea, KY 40403
3. CIRCUIT NAME AND NUMBER Scaffold Cane F3
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding area East of US-25 toward Climax
5. TOTAL CIRCUIT LENGTH (MILES) 58.8
6. CUSTOMER COUNT FOR THIS CIRCUIT 466
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2008
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	0.2%	0.2%
Ice	56.0%	42.1%
Lightning	0.1%	0.4%
Maintenance	0.8%	6.1%
Scheduled	0.01%	0.2%
Squirrel	1.2%	2.6%
Tree/Limb in ROW	1.6%	6.9%
Tree/Limb out of ROW	27.5%	19.5%
Unknown Cause	1.5%	3.8%
Vehicles	0.9%	2.0%
Vines/Kudzu	2.1%	5.8%
Wind	8.1%	10.3%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 217.3217
10. REPORTING YEAR (SAIDI) 353.985
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.447413
12. REPORTING YEAR (SAIFI) 1.804721
13. CORRECTIVE ACTION PLAN
Jackson Energy attempts to identify and remove trees that pose an outage risk but are located outside of the Right-of-Way (ROW).

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #18:

1. SUBSTATION NAME AND NUMBER East Bernstadt
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
280 Holland Road, London, KY 40741
3. CIRCUIT NAME AND NUMBER Ft. Sequayah F4
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding along US-25 North toward Hazel Patch
5. TOTAL CIRCUIT LENGTH (MILES) 71.4
6. CUSTOMER COUNT FOR THIS CIRCUIT 797
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2008
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	0.3%	0.7%
Customer Responsible	0.1%	0.1%
Equipment	3.1%	11.6%
Lightning	4.1%	4.6%
Maintenance	0.05%	0.2%
Scheduled	1.6%	3.3%
Squirrel	1.7%	3.4%
Tree/Limb in ROW	2.4%	3.9%
Tree/Limb out of ROW	28.7%	18.8%
Unknown Cause	2.6%	3.8%
Vandals	0.6%	0.7%
Wind	54.7%	48.9%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 300.1709
10. REPORTING YEAR (SAIDI) 319.7127
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.865183
12. REPORTING YEAR (SAIFI) 2.368883
13. CORRECTIVE ACTION PLAN

Jackson Energy attempts to identify and remove trees that pose an outage risk but are located outside of the Right-of-Way (ROW).

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #19:

1. SUBSTATION NAME AND NUMBER East Bernstadt
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
280 Holland Road, London, KY 40741
3. CIRCUIT NAME AND NUMBER Stave Mill F2
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding Northeast toward Robinson Stave Mill
5. TOTAL CIRCUIT LENGTH (MILES) 2.2
6. CUSTOMER COUNT FOR THIS CIRCUIT 18
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2012
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Lightning	100.0%	100.0%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 6.71593
 10. REPORTING YEAR (SAIDI) 8.833333
 11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.094363
 12. REPORTING YEAR (SAIFI) 0.166667
 13. CORRECTIVE ACTION PLAN None
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KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #20:

1. SUBSTATION NAME AND NUMBER East Bernstadt
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
280 Holland Road, London, KY 40741
3. CIRCUIT NAME AND NUMBER Swiss Colony F3
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding area South of East Bernstadt and West of I-75
5. TOTAL CIRCUIT LENGTH (MILES) 18.7
6. CUSTOMER COUNT FOR THIS CIRCUIT 414
7. DATE OF LAST CIRCUIT TRIM (VM) 2010
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	17.5%	13.7%
Bad Connection	0.4%	0.3%
Equipment	5.1%	3.6%
Lightning	1.5%	3.6%
Tree/Limb in ROW	12.6%	15.0%
Unknown Cause	30.1%	38.1%
Vines/Kudzu	20.0%	13.7%
Wind	8.1%	6.0%
Woodcutter	4.7%	6.0%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 23.89462
10. REPORTING YEAR (SAIDI) 58.5628
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.344823
12. REPORTING YEAR (SAIFI) 0.932367
13. CORRECTIVE ACTION PLAN
Jackson Energy field personnel attempt to identify the cause of every outage.

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #21:

1. SUBSTATION NAME AND NUMBER Eberle
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
3. CIRCUIT NAME AND NUMBER Hwy 490 F3
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding area West along HWY-490 toward Livingston
5. TOTAL CIRCUIT LENGTH (MILES) 78.1
6. CUSTOMER COUNT FOR THIS CIRCUIT 544
7. DATE OF LAST CIRCUIT TRIM (VM) 2010
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	0.3%	0.8%
Deterioration	0.4%	0.5%
Equipment	0.7%	2.6%
Ice	2.8%	2.7%
Lightning	8.4%	9.5%
Overload	1.2%	3.2%
Scheduled	3.3%	1.2%
Tree/Limb in ROW	2.0%	12.8%
Tree/Limb out of ROW	68.0%	57.0%
Unknown Cause	0.7%	1.7%
Wind	11.0%	5.2%
Woodcutter	1.1%	2.9%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 142.3378
10. REPORTING YEAR (SAIDI) 181.3309
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.948526
12. REPORTING YEAR (SAIFI) 1.205882
13. CORRECTIVE ACTION PLAN

Jackson Energy attempts to identify and remove trees that pose an outage risk but are located outside of the Right-of-Way (ROW).

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #23:

1. SUBSTATION NAME AND NUMBER Goose Rock
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
7731 S. Highway 421 Manchester, KY 40962
3. CIRCUIT NAME AND NUMBER Big Creek F2
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding Northeast along US-421 toward Big Creek
5. TOTAL CIRCUIT LENGTH (MILES) 11.7
6. CUSTOMER COUNT FOR THIS CIRCUIT 348
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2008
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Equipment	0.5%	1.4%
Lightning	0.4%	0.8%
Tree/Limb out of ROW	86.9%	62.6%
Unknown Cause	10.7%	26.6%
Vines/Kudzu	1.5%	8.5%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 122.1934
10. REPORTING YEAR (SAIDI) 381.9799
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.616286
12. REPORTING YEAR (SAIFI) 1.014368
13. CORRECTIVE ACTION PLAN

Jackson Energy attempts to identify and remove trees that pose an outage risk but are located outside of the Right-of-Way (ROW).

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #24:

1. SUBSTATION NAME AND NUMBER Goose Rock
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
7731 S. Highway 421 Manchester, KY 40962
3. CIRCUIT NAME AND NUMBER Schoolhouse F4
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding area West toward Blue Hole and South along HWY-11
5. TOTAL CIRCUIT LENGTH (MILES) 35.6
6. CUSTOMER COUNT FOR THIS CIRCUIT 310
7. DATE OF LAST CIRCUIT TRIM (VM) 2009
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	0.04%	0.1%
Deterioration	0.3%	0.3%
Equipment	0.2%	0.3%
Lightning	2.0%	4.5%
Maintenance	1.4%	5.4%
Scheduled	10.3%	5.5%
Tree/Limb in ROW	0.03%	0.1%
Tree/Limb out of ROW	26.8%	19.2%
Unknown Cause	26.1%	34.6%
Wind	30.2%	27.2%
Woodcutter	2.5%	2.8%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 596.4928
10. REPORTING YEAR (SAIDI) 950.2161
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 4.242808
12. REPORTING YEAR (SAIFI) 6.1
13. CORRECTIVE ACTION PLAN

Jackson Energy attempts to identify and remove trees that pose an outage risk but are located outside of the Right-of-Way (ROW).

Jackson Energy field personnel attempt to identify the cause of every outage.

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #25:

1. SUBSTATION NAME AND NUMBER Greenbriar
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
248 Needmore Hollow Rd., Manchester, 40962
3. CIRCUIT NAME AND NUMBER Fox Hollow F4
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding area West of Greenbriar along Hwy 638 and 687 toward Urban
5. TOTAL CIRCUIT LENGTH (MILES) 58.4
6. CUSTOMER COUNT FOR THIS CIRCUIT 262
7. DATE OF LAST CIRCUIT TRIM (VM) 2009
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	0.1%	0.1%
Equipment	31.1%	40.0%
Lightning	0.3%	0.2%
Maintenance	0.6%	1.1%
Major Storm	0.3%	0.2%
Scheduled	0.7%	0.4%
Squirrel	0.8%	1.1%
Tree/Limb in ROW	0.3%	0.4%
Tree/Limb out of ROW	34.6%	16.8%
Unknown Cause	0.03%	0.1%
Wind	31.3%	39.6%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 477.7843
10. REPORTING YEAR (SAIDI) 662.9084
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 3.196197
12. REPORTING YEAR (SAIFI) 6.118321

13. CORRECTIVE ACTION PLAN
 - Bad porcelain cut out located and replaced.
 - Jackson Energy attempts to identify and remove trees that pose an outage risk but are located outside of the Right-of-Way (ROW).

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #26:

1. SUBSTATION NAME AND NUMBER Greenbriar
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
248 Needmore Hollow Rd., Manchester, 40962
3. CIRCUIT NAME AND NUMBER Manchester F3
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeds South along US-421 toward Manchester
5. TOTAL CIRCUIT LENGTH (MILES) 17.5
6. CUSTOMER COUNT FOR THIS CIRCUIT 266
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2009
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI
Animal / Bird	0.1%
Equipment	0.3%
Scheduled	2.3%
Squirrel	0.2%
Tree/Limb out of ROW	92.1%
Unknown Cause	0.7%
Vehicles	2.7%
Vines/Kudzu	1.6%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 299.0116
10. REPORTING YEAR (SAIDI) 552.6466
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.758694
12. REPORTING YEAR (SAIFI) 1.68797
13. CORRECTIVE ACTION PLAN
Jackson Energy attempts to identify and remove trees that pose an outage risk but are located outside of the Right-of-Way (ROW).

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #27:

1. SUBSTATION NAME AND NUMBER Greenhall
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
449 Creech Rd., Tyner, KY 40486
3. CIRCUIT NAME AND NUMBER Travellers Rest F5
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeds area along KY-1071 and KY-30 toward Travellers Rest
5. TOTAL CIRCUIT LENGTH (MILES) 42
6. CUSTOMER COUNT FOR THIS CIRCUIT 255
7. DATE OF LAST CIRCUIT TRIM (VM) 2009
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	2.2%	1.8%
Maintenance	8.2%	37.5%
Scheduled	0.3%	0.5%
Tree/Limb out of ROW	37.7%	19.9%
Unknown Cause	50.1%	39.9%
Wind	1.5%	0.4%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 122.1772
10. REPORTING YEAR (SAIDI) 204.3647
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.260802
12. REPORTING YEAR (SAIFI) 3.113725
13. CORRECTIVE ACTION PLAN

Jackson Energy field personnel attempt to identify the cause of every outage.

Jackson Energy attempts to identify and remove trees that pose an outage risk but are located outside of the Right-of-Way (ROW).

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #28:

1. SUBSTATION NAME AND NUMBER Hargett
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
100 East Ky Power Lane, Irvine, KY 40336
3. CIRCUIT NAME AND NUMBER Ivory Hill F4
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding South along HWY 82 then West along HWY 89 toward Palmer
5. TOTAL CIRCUIT LENGTH (MILES) 36.6
6. CUSTOMER COUNT FOR THIS CIRCUIT 293
7. DATE OF LAST CIRCUIT TRIM (VM) 2013
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIFI
Equipment	1.3%
Lightning	25.9%
Scheduled	27.8%
Squirrel	5.1%
Tree/Limb out of ROW	34.2%
Unknown Cause	5.7%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 58.36031
10. REPORTING YEAR (SAIDI) 57.33788
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.449876
12. REPORTING YEAR (SAIFI) 0.539249
13. CORRECTIVE ACTION PLAN
Jackson Energy attempts to identify and remove trees that pose an outage risk but are located outside of the Right-of-Way (ROW).

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #29:

1. SUBSTATION NAME AND NUMBER Hargett
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
100 East Ky Power Lane, Irvine, KY 40336
3. CIRCUIT NAME AND NUMBER Lower Bend F3
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding area Southwest of Hargett toward Fox and Witt Springs
5. TOTAL CIRCUIT LENGTH (MILES) 41.6
6. CUSTOMER COUNT FOR THIS CIRCUIT 328
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2013
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	5.3%	3.6%
Equipment	2.2%	1.3%
Lightning	12.7%	13.9%
Scheduled	1.5%	11.7%
Tree/Limb in ROW	0.4%	0.4%
Tree/Limb out of ROW	21.6%	5.7%
Unknown Cause	30.8%	18.2%
Wind	25.5%	45.1%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 114.6015
10. REPORTING YEAR (SAIDI) 213.5518
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.195958
12. REPORTING YEAR (SAIFI) 2.341463
13. CORRECTIVE ACTION PLAN

Jackson Energy field personnel attempt to identify the cause of every outage.

Jackson Energy attempts to identify and remove trees that pose an outage risk but are located outside of the Right-of-Way (ROW).

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #30:

1. SUBSTATION NAME AND NUMBER Keavy 1
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
167 E. Highway 312, Corbin, KY 40701
3. CIRCUIT NAME AND NUMBER Hwy 312 F2
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding along KY-312 toward Corbin
5. TOTAL CIRCUIT LENGTH (MILES) 26.8
6. CUSTOMER COUNT FOR THIS CIRCUIT 718
7. DATE OF LAST CIRCUIT TRIM (VM) 2012
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	2.5%	6.0%
Equipment	83.7%	68.1%
Lightning	0.1%	0.2%
Maintenance	1.2%	4.9%
Tree/Limb in ROW	2.6%	3.4%
Tree/Limb out of ROW	2.0%	3.3%
Unknown Cause	7.9%	14.1%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 129.0452
10. REPORTING YEAR (SAIDI) 259.085
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.163631
12. REPORTING YEAR (SAIFI) 1.704735
13. CORRECTIVE ACTION PLAN

One outage began due to a bad lightning arrester. After the lightning arrester was cleared then the station recloser would not close back in. This feeder had to be tied to another feeder and the substation recloser control had to be replaced.

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #31:

1. SUBSTATION NAME AND NUMBER Laurel Industrial 1
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
747 Sinking Creek Rd., London, KY 40741
3. CIRCUIT NAME AND NUMBER Laurel Industrial F2
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding out KY-80 to Laurel Industrial Park
5. TOTAL CIRCUIT LENGTH (MILES) 1.9
6. CUSTOMER COUNT FOR THIS CIRCUIT 10
7. DATE OF LAST CIRCUIT TRIM (VM) 2008
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Customer Responsible	61.8%	25.0%
Overload	24.2%	12.5%
Scheduled	13.9%	62.5%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 35.00
10. REPORTING YEAR (SAIDI) 46.59999
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.33
12. REPORTING YEAR (SAIFI) 0.8
13. CORRECTIVE ACTION PLAN
A 2,500 KVA transformer was replaced.

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #32:

1. SUBSTATION NAME AND NUMBER Laurel Industrial 1
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
747 Sinking Creek Rd., London, KY 40741
3. CIRCUIT NAME AND NUMBER Liberty Circle F3
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding area North of KY-80 along KY-1956
5. TOTAL CIRCUIT LENGTH (MILES) 23.1
6. CUSTOMER COUNT FOR THIS CIRCUIT 508
7. DATE OF LAST CIRCUIT TRIM (VM) 2009
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI
Animal / Bird	0.5%
Equipment	0.5%
Lightning	0.0%
Scheduled	12.8%
Tree/Limb in ROW	2.8%
Tree/Limb out of ROW	50.4%
Unknown Cause	6.0%
Wind	26.9%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 53.46075
10. REPORTING YEAR (SAIDI) 72.89764
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.39413
12. REPORTING YEAR (SAIFI) 0.391732
13. CORRECTIVE ACTION PLAN

Jackson Energy attempts to identify and remove trees that pose an outage risk but are located outside of the Right-of-Way (ROW).

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #33:

1. SUBSTATION NAME AND NUMBER Laurel Industrial 2
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
747 Sinking Creek Rd., London, KY 40741
3. CIRCUIT NAME AND NUMBER Sinking Creek F6
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding along KY-1535 South of KY-80
5. TOTAL CIRCUIT LENGTH (MILES) 41.7
6. CUSTOMER COUNT FOR THIS CIRCUIT 637
7. DATE OF LAST CIRCUIT TRIM (VM) 2009
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	1.4%	2.3%
Deterioration	0.5%	0.5%
Lightning	4.8%	4.1%
Scheduled	1.7%	7.7%
Tree/Limb in ROW	1.0%	0.5%
Tree/Limb out of ROW	55.5%	47.8%
Unknown Cause	10.6%	15.2%
Vehicles	13.5%	7.7%
Wind	11.1%	14.1%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 31.7248
10. REPORTING YEAR (SAIDI) 62.07692
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.243718
12. REPORTING YEAR (SAIFI) 0.610675
13. CORRECTIVE ACTION PLAN
Jackson Energy attempts to identify and remove trees that pose an outage risk but are located outside of the Right-of-Way (ROW).

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #34:

1. SUBSTATION NAME AND NUMBER Maplesville
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
91 Hanna Leigh Trail, London, KY 40741
3. CIRCUIT NAME AND NUMBER Slate Lick F3
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding down HWY 638 toward McWhorter
5. TOTAL CIRCUIT LENGTH (MILES) 14.6
6. CUSTOMER COUNT FOR THIS CIRCUIT 214
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2009
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	1.0%	1.1%
Deterioration	2.5%	2.4%
Equipment	26.1%	29.8%
Large Animal	36.4%	29.8%
Lightning	3.1%	2.0%
Squirrel	0.1%	0.1%
Tree/Limb out of ROW	4.6%	3.3%
Unknown Cause	24.8%	29.5%
Woodcutter	1.4%	2.0%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 181.3123
10. REPORTING YEAR (SAIDI) 261.4346
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.793045
12. REPORTING YEAR (SAIFI) 3.719626

13. CORRECTIVE ACTION PLAN

Repaired damaged primary jumper.

Jackson Energy field personnel attempt to identify the cause of every outage.

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #35:

1. SUBSTATION NAME AND NUMBER Maretburg
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
752 KY HWY 461, Mt. Vernon, KY 40456
3. CIRCUIT NAME AND NUMBER Sand Springs F3
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding South of Mt Vernon toward Sand Springs in Rockcastle County
5. TOTAL CIRCUIT LENGTH (MILES) 64.5
6. CUSTOMER COUNT FOR THIS CIRCUIT 440
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2009
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Equipment	7.7%	7.5%
Ice	4.4%	7.9%
Lightning	5.6%	3.6%
Maintenance	1.8%	2.1%
Scheduled	3.1%	2.8%
Tree/Limb in ROW	8.7%	11.7%
Tree/Limb out of ROW	51.8%	53.7%
Unknown Cause	3.2%	3.4%
Vines/Kudzu	0.1%	0.1%
Wind	11.1%	5.8%
Woodcutter	2.5%	1.3%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 329.7634
10. REPORTING YEAR (SAIDI) 541.9114
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 3.580723
12. REPORTING YEAR (SAIFI) 4.909091
13. CORRECTIVE ACTION PLAN

Jackson Energy attempts to identify and remove trees that pose an outage risk but are located outside of the Right-of-Way (ROW).

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #36:

1. SUBSTATION NAME AND NUMBER McKee
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
RT 290, McKee, KY 40447
3. CIRCUIT NAME AND NUMBER Bills Branch F1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding North of McKee on KY-89 toward Sand Springs in Jackson County
5. TOTAL CIRCUIT LENGTH (MILES) 46.2
6. CUSTOMER COUNT FOR THIS CIRCUIT 447
7. DATE OF LAST CIRCUIT TRIM (VM) 2012
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Ice	67.4%	35.4%
Lightning	0.8%	1.2%
Maintenance	0.1%	0.3%
Major Storm	0.1%	0.1%
Other Utilities	0.1%	0.2%
Scheduled	15.2%	37.5%
Squirrel	0.1%	0.2%
Tree/Limb in ROW	0.1%	0.1%
Tree/Limb out of ROW	11.1%	19.7%
Unknown Cause	5.0%	5.4%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 215.2774
10. REPORTING YEAR (SAIDI) 352.0112
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.95054
12. REPORTING YEAR (SAIFI) 2.959732
13. CORRECTIVE ACTION PLAN None

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #37:

1. SUBSTATION NAME AND NUMBER Millers Creek
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
79 Beattyville, Rd., Irvine, KY 40472
3. CIRCUIT NAME AND NUMBER Cobb Hill F1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding North toward Fitchburg along HWYs 975 and 1182
5. TOTAL CIRCUIT LENGTH (MILES) 77.1
6. CUSTOMER COUNT FOR THIS CIRCUIT 474
7. DATE OF LAST CIRCUIT TRIM (VM) 2013
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI
Animal / Bird	0.03%
Bad Connection	0.2%
Lightning	12.4%
Maintenance	0.0%
Scheduled	4.1%
ROW Crew	0.3%
Squirrel	0.3%
Tree/Limb in ROW	0.2%
Tree/Limb out of ROW	60.9%
Unknown Cause	2.6%
Vehicles	0.2%
Wind	18.4%
Woodcutter	0.3%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 434.6096
10. REPORTING YEAR (SAIDI) 567.5738
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 2.996234
12. REPORTING YEAR (SAIFI) 2.700422
13. CORRECTIVE ACTION PLAN

Jackson Energy attempts to identify and remove trees that pose an outage risk but are located outside of the Right-of-Way (ROW).

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #39:

1. SUBSTATION NAME AND NUMBER Oneida
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
11566 N. Highway 11, Manchester, KY 40962
3. CIRCUIT NAME AND NUMBER Big Bullskin F3
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding along 1482 toward Brutus
5. TOTAL CIRCUIT LENGTH (MILES) 22.7
6. CUSTOMER COUNT FOR THIS CIRCUIT 222
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2008
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIFI
Animal / Bird	0.3%
Bad Connection	0.8%
Equipment	31.6%
Large Animal	0.3%
Scheduled	41.9%
Tree/Limb in ROW	0.6%
Tree/Limb out of ROW	19.5%
Unknown Cause	5.0%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 293.2858
10. REPORTING YEAR (SAIDI) 285.1937
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 2.030034
12. REPORTING YEAR (SAIFI) 2.954955
13. CORRECTIVE ACTION PLAN

The largest scheduled outage was to install a pole in line safely.

The equipment related outage was due to a pole on fire.

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #40:

1. SUBSTATION NAME AND NUMBER Oneida
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
11566 N. Highway 11, Manchester, KY 40962
3. CIRCUIT NAME AND NUMBER Road Run F1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding along HWY 11 toward Teges
5. TOTAL CIRCUIT LENGTH (MILES) 42.7
6. CUSTOMER COUNT FOR THIS CIRCUIT 278
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2012
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Equipment	5.0%	9.1%
Ice	1.7%	0.8%
Maintenance	1.4%	1.6%
Scheduled	4.4%	10.3%
Tree/Limb out of ROW	84.4%	75.2%
Vines/Kudzu	1.8%	1.6%
Wind	1.3%	1.4%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 343.7104
10. REPORTING YEAR (SAIDI) 377.4209
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 2.192837
12. REPORTING YEAR (SAIFI) 2.874101
13. CORRECTIVE ACTION PLAN

Jackson Energy attempts to identify and remove trees that pose an outage risk but are located outside of the Right-of-Way (ROW).

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #41:

1. SUBSTATION NAME AND NUMBER Pine Grove 1
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
165 Maple Grove Rd., London, KY 40741
3. CIRCUIT NAME AND NUMBER Hwy 363 F3
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding along HWY 363 toward Keavy
5. TOTAL CIRCUIT LENGTH (MILES) 27.2
6. CUSTOMER COUNT FOR THIS CIRCUIT 455
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2009
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI
Animal / Bird	16.4%
Deterioration	8.6%
Equipment	1.5%
Lightning	30.4%
Squirrel	15.1%
Tree/Limb in ROW	1.4%
Tree/Limb out of ROW	9.0%
Unknown Cause	17.7%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 79.62568
10. REPORTING YEAR (SAIDI) 84.85934
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.32343
12. REPORTING YEAR (SAIFI) 1.008791
13. CORRECTIVE ACTION PLAN _____

Jackson Energy field personnel attempt to identify the cause of every outage.

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #42:

1. SUBSTATION NAME AND NUMBER Pine Grove 1
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
165 Maple Grove Rd., London, KY 40741
3. CIRCUIT NAME AND NUMBER River Bend F2
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding area East of I-75 between Sublimity Springs Subdivision and Lily
5. TOTAL CIRCUIT LENGTH (MILES) 22.7
6. CUSTOMER COUNT FOR THIS CIRCUIT 610
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2009
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	6.7%	5.8%
Bad Connection	0.1%	0.1%
Equipment	4.2%	3.8%
Lightning	44.4%	48.1%
Maintenance	0.9%	0.8%
Overload	2.3%	2.1%
Scheduled	3.2%	4.0%
Squirrel	4.4%	2.7%
Tree/Limb in ROW	2.5%	2.5%
Unknown Cause	25.2%	26.0%
Vines/Kudzu	0.6%	0.5%
Wind	5.3%	3.7%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 145.0683
10. REPORTING YEAR (SAIDI) 164.6574
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 2.224911
12. REPORTING YEAR (SAIFI) 2.563934
13. CORRECTIVE ACTION PLAN
Jackson Energy field personnel attempt to identify the cause of every outage.

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #43:

1. SUBSTATION NAME AND NUMBER Pine Grove 2
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
165 Maple Grove Rd., London, KY 40741
3. CIRCUIT NAME AND NUMBER Maple Grove F4
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding Southwest toward Cold Hill along Maple Grove and KY-192
5. TOTAL CIRCUIT LENGTH (MILES) 29.6
6. CUSTOMER COUNT FOR THIS CIRCUIT 541
7. DATE OF LAST CIRCUIT TRIM (VM) 2010
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI
Animal / Bird	8.6%
Deterioration	6.5%
Equipment	22.7%
Lightning	0.2%
Scheduled	9.6%
Squirrel	0.5%
Tree/Limb in ROW	11.9%
Tree/Limb out of ROW	33.6%
Unknown Cause	6.5%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 55.91296
10. REPORTING YEAR (SAIDI) 70.05176
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.744623
12. REPORTING YEAR (SAIFI) 0.556377
13. CORRECTIVE ACTION PLAN

Jackson Energy attempts to identify and remove trees that pose an outage risk but are located outside of the Right-of-Way (ROW).

A damaged primary jumper was found and fixed.

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #44:

1. SUBSTATION NAME AND NUMBER Rice Station
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
75 Substation Rd., Irvine, KY 40336
3. CIRCUIT NAME AND NUMBER Sand Hill F1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding Notheast from substation toward North Irvine North of HWY 1457
5. TOTAL CIRCUIT LENGTH (MILES) 37.4
6. CUSTOMER COUNT FOR THIS CIRCUIT 570
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2012
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	31.0%	39.3%
Equipment	0.1%	0.2%
Ice	4.1%	1.1%
Lightning	0.1%	0.4%
Maintenance	11.1%	37.9%
Scheduled	2.7%	1.2%
Tree/Limb out of ROW	6.3%	5.0%
Unknown Cause	1.5%	2.9%
Vines/Kudzu	2.8%	2.7%
Wind	39.6%	7.8%
Woodcutter	0.7%	1.6%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 187.7051
10. REPORTING YEAR (SAIDI) 432.2772
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.837349
12. REPORTING YEAR (SAIFI) 2.815789
13. CORRECTIVE ACTION PLAN
Animal guards are placed on equipment, when possible, after an animal caused outage occurs.
An outage was taken to replace a primary voltage switch.

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #45:

1. SUBSTATION NAME AND NUMBER Rice Station
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
75 Substation Rd., Irvine, KY 40336
3. CIRCUIT NAME AND NUMBER Station Camp F2
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding area along HWY 594 toward West Irvine
5. TOTAL CIRCUIT LENGTH (MILES) 117.9
6. CUSTOMER COUNT FOR THIS CIRCUIT 1187
7. DATE OF LAST CIRCUIT TRIM (VM) 2011
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	1.8%	3.3%
Bad Connection	0.05%	0.2%
Equipment	2.4%	1.9%
Ice	11.7%	10.8%
Lightning	0.7%	1.2%
Maintenance	0.5%	2.6%
Scheduled	4.2%	4.9%
ROW Crew	0.2%	0.7%
Squirrel	0.2%	0.3%
Tree/Limb in ROW	0.2%	0.2%
Tree/Limb out of ROW	23.0%	15.5%
Unknown Cause	47.2%	51.7%
Vehicles	0.6%	0.6%
Vines/Kudzu	0.1%	0.3%
Wind	7.2%	5.9%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 269.9572
10. REPORTING YEAR (SAIDI) 364.6344
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 2.016473
12. REPORTING YEAR (SAIFI) 2.694187
13. CORRECTIVE ACTION PLAN

Jackson Energy field personnel attempt to identify the cause of every outage.

Jackson Energy attempts to identify and remove trees that pose an outage risk but are located outside of the Right-of-Way (ROW).

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #46:

1. SUBSTATION NAME AND NUMBER Sand Gap
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Gravel Lick Rd., McKee, KY 40447
3. CIRCUIT NAME AND NUMBER Lodge Hall F1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding area South of HWY 421 along Lodge Hall Road
5. TOTAL CIRCUIT LENGTH (MILES) 5.6
6. CUSTOMER COUNT FOR THIS CIRCUIT 82
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2012
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI
Equipment	4.0%
Lightning	7.2%
Tree/Limb out of ROW	24.3%
Vehicles	64.5%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 29.88039
10. REPORTING YEAR (SAIDI) 31.65854
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.33864
12. REPORTING YEAR (SAIFI) 0.317073
13. CORRECTIVE ACTION PLAN

Vehicle broke a guy wire that was repaired.

Jackson Energy attempts to identify and remove trees that pose an outage risk but are located outside of the Right-of-Way (ROW).

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #47:

1. SUBSTATION NAME AND NUMBER South Fork
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Griffith Cemetery Rd., Island City, KY 41338
3. CIRCUIT NAME AND NUMBER Bear Run F1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding Notheast toward Eversole, Lerosé and Tallega
5. TOTAL CIRCUIT LENGTH (MILES) 60.1
6. CUSTOMER COUNT FOR THIS CIRCUIT 212
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2013
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	0.1%	0.2%
Ice	0.2%	0.1%
Lightning	0.04%	0.1%
Other Utilities	14.0%	17.3%
Scheduled	7.8%	6.2%
ROW Crew	0.05%	0.1%
Squirrel	0.7%	1.9%
Tree/Limb in ROW	0.03%	0.1%
Tree/Limb out of ROW	60.5%	57.3%
Unknown Cause	5.2%	7.1%
Vehicles	1.2%	1.9%
Vines/Kudzu	2.1%	2.1%
Wind	7.8%	4.9%
Woodcutter	0.3%	0.7%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 348.5891
10. REPORTING YEAR (SAIDI) 914.7264
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 3.021122
12. REPORTING YEAR (SAIFI) 7.240566
13. CORRECTIVE ACTION PLAN

Jackson Energy attempts to identify and remove trees that pose an outage risk but are located outside of the Right-of-Way (ROW).

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #48:

1. SUBSTATION NAME AND NUMBER South Fork
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Griffith Cemetery Rd., Island City, KY 41338
3. CIRCUIT NAME AND NUMBER Booneville F5
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding along HWY 11 toward Sag Hollow Golf Course
5. TOTAL CIRCUIT LENGTH (MILES) 5.4
6. CUSTOMER COUNT FOR THIS CIRCUIT 82
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2013
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Scheduled	100.0%	100.0%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 20.08795
10. REPORTING YEAR (SAIDI) 42.85366
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.317341
12. REPORTING YEAR (SAIFI) 1.012195
13. CORRECTIVE ACTION PLAN None

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #49:

1. SUBSTATION NAME AND NUMBER South Fork
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Griffith Cemetery Rd., Island City, KY 41338
3. CIRCUIT NAME AND NUMBER Rice Town F2
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding area East of HWY 11 toward Arnett
5. TOTAL CIRCUIT LENGTH (MILES) 49.5
6. CUSTOMER COUNT FOR THIS CIRCUIT 266
7. DATE OF LAST CIRCUIT TRIM (VM) 2007
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	1.5%	1.2%
Bad Connection	1.2%	1.0%
Deterioration	2.4%	3.5%
Equipment	3.5%	2.6%
Ice	0.5%	0.4%
Lightning	2.0%	2.0%
Maintenance	9.0%	11.6%
Scheduled	17.7%	18.6%
ROW Crew	20.3%	23.9%
Tree/Limb in ROW	6.7%	4.4%
Tree/Limb out of ROW	31.8%	24.5%
Unknown Cause	2.8%	4.7%
Woodcutter	0.7%	1.5%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 325.2524
10. REPORTING YEAR (SAIDI) 641.9173
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 2.309044
12. REPORTING YEAR (SAIFI) 4.394737
13. CORRECTIVE ACTION PLAN
Jackson Energy attempts to identify and remove trees that pose an
outage risk but are located outside of the Right-of-Way (ROW).

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #50:

1. SUBSTATION NAME AND NUMBER Three Links
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
52 Climax Rd., Mount Vernon, KY 40456
3. CIRCUIT NAME AND NUMBER Disputanta F3
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding Southwest along HWY 1912
5. TOTAL CIRCUIT LENGTH (MILES) 60.6
6. CUSTOMER COUNT FOR THIS CIRCUIT 495
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2013
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI
Animal / Bird	0.1%
Bad Connection	0.1%
Deterioration	3.8%
Equipment	10.0%
Lightning	2.3%
Maintenance	0.5%
Scheduled	19.4%
Squirrel	0.4%
Tree/Limb in ROW	15.4%
Tree/Limb out of ROW	39.5%
Unknown Cause	8.2%
Wind	0.2%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 222.221
10. REPORTING YEAR (SAIDI) 247.6505
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 2.359002
12. REPORTING YEAR (SAIFI) 2.036364
13. CORRECTIVE ACTION PLAN
Jackson Energy attempts to identify and remove trees that pose an outage risk but are located outside of the Right-of-Way (ROW).

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #51:

1. SUBSTATION NAME AND NUMBER Three Links
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
52 Climax Rd., Mount Vernon, KY 40456
3. CIRCUIT NAME AND NUMBER Pine Grove F1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding area Northeast of HWY 2614 toward Clover Bottom
5. TOTAL CIRCUIT LENGTH (MILES) 51.1
6. CUSTOMER COUNT FOR THIS CIRCUIT 445
7. DATE OF LAST CIRCUIT TRIM (VM) 2008
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	3.3%	4.0%
Bad Connection	0.1%	0.1%
Ice	45.0%	21.8%
Lightning	7.1%	11.9%
Maintenance	0.4%	1.1%
Squirrel	4.0%	7.1%
Tree/Limb in ROW	10.3%	10.4%
Tree/Limb out of ROW	8.2%	12.3%
Unknown Cause	8.2%	17.1%
Wind	13.5%	14.2%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 176.1273
10. REPORTING YEAR (SAIDI) 220.7865
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.435539
12. REPORTING YEAR (SAIFI) 1.667416
13. CORRECTIVE ACTION PLAN None

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #52:

1. SUBSTATION NAME AND NUMBER Tyner
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Tyner Town Rd., Tyner, KY 40486
3. CIRCUIT NAME AND NUMBER Gray Hawk F1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding area along US-421 South of Gray Hawk
5. TOTAL CIRCUIT LENGTH (MILES) 40.9
6. CUSTOMER COUNT FOR THIS CIRCUIT 486
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2010
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	0.1%	0.1%
Equipment	3.4%	3.6%
Ice	1.0%	0.6%
Lightning	3.9%	4.4%
Scheduled	1.5%	2.3%
ROW Crew	27.8%	7.8%
Squirrel	0.6%	0.7%
Tree/Limb out of ROW	3.8%	5.7%
Unknown Cause	5.0%	5.6%
Vehicles	42.1%	61.0%
Wind	10.9%	8.0%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 46.14092
10. REPORTING YEAR (SAIDI) 107.6296
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.717815
12. REPORTING YEAR (SAIFI) 1.757202
13. CORRECTIVE ACTION PLAN
Car wreck broke a pole. Broken pole was replaced.

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #53:

1. SUBSTATION NAME AND NUMBER West London 1
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
436 West Laurel Rd., London, KY 40741
3. CIRCUIT NAME AND NUMBER Jerrys Rest. F1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding area along Parker Road West of I-75
5. TOTAL CIRCUIT LENGTH (MILES) 3.3
6. CUSTOMER COUNT FOR THIS CIRCUIT 229
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2009
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIFI
Animal / Bird	57.1%
Unknown Cause	42.9%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 19.52114
10. REPORTING YEAR (SAIDI) 12.77729
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.258869
12. REPORTING YEAR (SAIFI) 0.336245
13. CORRECTIVE ACTION PLAN

Animal guards are placed on equipment, when possible, after an animal caused outage occurs.

Jackson Energy field personnel attempt to identify the cause of every outage.

KENTUCKY PUBLIC SERVICE COMMISSION

CIRCUIT #54:

1. SUBSTATION NAME AND NUMBER West London 2
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
436 West Laurel Rd., London, KY 40741
3. CIRCUIT NAME AND NUMBER Cold Hill F4
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Feeding area along HWY 192 Southwest of London
5. TOTAL CIRCUIT LENGTH (MILES) 20.7
6. CUSTOMER COUNT FOR THIS CIRCUIT 478
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2008
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIFI
Animal / Bird	10.0%
Lightning	6.6%
Squirrel	6.6%
Tree/Limb in ROW	9.1%
Tree/Limb out of ROW	19.5%
Unknown Cause	25.7%
Vehicles	3.7%
Vines/Kudzu	7.5%
Wind	11.2%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 42.7277
10. REPORTING YEAR (SAIDI) 42.17782
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.448687
12. REPORTING YEAR (SAIFI) 0.504184
13. CORRECTIVE ACTION PLAN

Jackson Energy field personnel attempt to identify the cause of every outage.

Jackson Energy attempts to identify and remove trees that pose an outage risk but are located outside of the Right-of-Way (ROW).

KENTUCKY PUBLIC SERVICE COMMISSION

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

Jackson Energy maintains an aggressive Vegetation Management Plan clearing approximately 800 miles of right-of-way annually, which also includes herbicide treatment on all cleared circuits the following year. This has allowed us to maintain a clearing cycle that is less than 6 years.

However, our service territory is heavily wooded and within the National Forest and our maximum ROW width of 40' does not prevent the majority of the outage category "Tree/Limb out of ROW" identified in Section 6. We continue to utilize our Hazard Tree Program that identifies these trees "out of ROW". The hazard trees identified are removed (with property owners permission) during the normal clearing cycle.

A copy of our current Vegetation Management Plan is attached for review.

SECTION 8: UTILITY COMMENTS

South Fork - Bear Run F1: Circuit was cleared in 2013 during normal clearing cycle.

Greenbriar - Fox Hollow F4: Hazard Tree Program Identification complete 2013 and crews to complete in 2014.

South Fork - Rice Town F2: Hazard Tree Program Identification complete 2013 and crews to complete in 2014.

Millers Creek - Cobb Hill F1: Hazard Tree Program Identification complete in 2012 and crews completed end of 2013.

Greenbriar - Manchester F3: Hazard Tree Program Identification complete in 2013 and crews to complete in 2014.

Maretburg - Sand Spring F3: Hazard Tree Program Identification will be done in 2014 and cut in 2014.

KENTUCKY PUBLIC SERVICE COMMISSION
