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TAYLOR, KELLER & OSWALD

ATTORNEYS AT LAW
A PROFESSIONAL LIMITED LIABILITY COMPANY

1306 W. 5th St., Suite 100
P.O. Box 3440
London, KY 40743-3440
Phone: (606) 878-8844
Fax: (606) 878-5550

Hamburg Place Office Park
1795 Alysheba Way, Suite 2201
Lexington, KY 40509
Phone: (859) 543-1613

J. Warren Keller
Clayton O. Oswald

Boyd F. Taylor
(1924 – 2012)

Ashley P. Hoover

Writer's Email: coswald@tkolegal.com

April 20, 2021

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

Re: Jackson Energy's 2020 Annual Reliability Report
Administrative Case No. 2011-00450

Dear Sir or Madam:

Please find enclosed with this letter Jackson Energy's 2020 Annual Reliability Report in Administrative Case Number 2011-00450. Please feel free to contact me if you have any questions or concerns.

Best regards.

Sincerely,

Clayton O. Oswald

Clayton O. Oswald

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 2020

SECTION 3: MAJOR EVENT DAYS

T_{MED}	<u>10.21</u>
FIRST DATE USED TO DETERMINE T_{MED}	<u>1/1/2020</u>
LAST DATE USED TO DETERMINE T_{MED}	<u>12/31/2020</u>
NUMBER OF MED IN REPORT YEAR	<u>6</u>

TMED should be calculated using the daily SAIDI values for the five prior years.

SECTION 4: SYSTEM RELIABILITY INFORMATION AND RESULTS

System-wide Information

TOTAL CUSTOMERS 51320 TOTAL CIRCUITS 112

Excluding MED

	5 YEAR AVERAGE		REPORTING YEAR
SAIDI	<u>203.3</u>	SAIDI	<u>234.8</u>
SAIFI	<u>1.6830</u>	SAIFI	<u>1.9337</u>

Including MED

	5 YEAR AVERAGE		REPORTING YEAR
SAIDI	<u>313.8</u>	SAIDI	<u>351.9</u>
SAIFI	<u>1.9424</u>	SAIFI	<u>2.3964</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 May 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}

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 03E092
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Welchburg Egypt Rd., Annville KY 40402
3. CIRCUIT NAME AND NUMBER Bond F2
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
HWY 3630 toward Bond
5. TOTAL CIRCUIT LENGTH (MILES) 57.7
6. CUSTOMER COUNT FOR THIS CIRCUIT 820
7. DATE OF LAST CIRCUIT TRIM (VM) 2017
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	7%	22%
Equipment	34%	42%
Lightning	41%	23%
Maintenance	2%	3%
Scheduled	0.3%	0.2%
Squirrel	4%	3%
Tree/Limb out of ROW	4%	3%
Unknown Cause	3%	3%
Vehicles/Heavy Equipment	6%	2%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 95
10. REPORTING YEAR (SAIDI) 175
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.4606
12. REPORTING YEAR (SAIFI) 2.4098
13. CORRECTIVE ACTION PLAN

Equipment issues were located and corrected.

**REPEAT INFORMATION FOR EACH CIRCUIT EXCEEDING ITS 5 YEAR AVERAGE
FOR SAIDI AND/OR SAIFI**

CIRCUIT #: 2

1. SUBSTATION NAME AND NUMBER Annville 03E092
 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Welchburg Egypt Rd., Annville KY 40402
 3. CIRCUIT NAME AND NUMBER Greenhill F3
 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Greenhill Road to Sugar Camp - Moores Camp Road
 5. TOTAL CIRCUIT LENGTH (MILES) 61.7
 6. CUSTOMER COUNT FOR THIS CIRCUIT 387
 7. DATE OF LAST CIRCUIT TRIM (VM) 2015 Scheduled for 2021
 8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
 NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Customer Responsible	0.1%	0.2%
Lightning	2%	1%
Maintenance	1%	5%
Squirrel	0.1%	0.2%
Tree/Limb in ROW	2%	1%
Tree/Limb out of ROW	47%	56%
Unknown Cause	7%	10%
Vehicles/Heavy Equipment	41%	26%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 122
 10. REPORTING YEAR (SAIDI) 208
 11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.0762
 12. REPORTING YEAR (SAIFI) 1.5891
 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).

CIRCUIT #: 3

1. SUBSTATION NAME AND NUMBER Annville 03E092
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Welchburg Egypt Rd., Annville KY 40402
3. CIRCUIT NAME AND NUMBER Welchburg F5
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Jackson County feeding toward Welchburg
5. TOTAL CIRCUIT LENGTH (MILES) 6
6. CUSTOMER COUNT FOR THIS CIRCUIT 45
7.. DATE OF LAST CIRCUIT TRIM (VM) 2015 Scheduled for 2021
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Lightning	59%	50%
Tree/Limb out of ROW	17%	25%
Unknown Cause	24%	25%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 184
10. REPORTING YEAR (SAIDI) 296
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 2.3092
12. REPORTING YEAR (SAIFI) 3.6667
13. CORRECTIVE ACTION PLAN
Jackson Energy field personnel attempt to identify the cause of every outage.

CIRCUIT #: 4

1. SUBSTATION NAME AND NUMBER Beattyville 03E011
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
1251 HWY 52 East, Beattyville, KY 41311
3. CIRCUIT NAME AND NUMBER Zoe F1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Along HWY 11 toward Zoe
5. TOTAL CIRCUIT LENGTH (MILES) 54
6. CUSTOMER COUNT FOR THIS CIRCUIT 460
7.. DATE OF LAST CIRCUIT TRIM (VM) 2018
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird		2%
Equipment		20%
Lightning		1%
Maintenance		5%
Scheduled		11%
Squirrel		1%
Tree/Limb out of ROW		51%
Unknown Cause		3%
Vines/Kudzu		0.1%
Wind		6%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 254
10. REPORTING YEAR (SAIDI) 187
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.5573
12. REPORTING YEAR (SAIFI) 1.5674
13. CORRECTIVE ACTION PLAN Equipment issues were located and corrected.
Jackson Energy attempts to identify and remove trees that pose an
outage risk but are located outside of the Right-of-Way (ROW).

CIRCUIT #: 5

1. SUBSTATION NAME AND NUMBER Beattyville 03E011
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
1251 HWY 52 East, Beattyville, KY 41311
3. CIRCUIT NAME AND NUMBER St. Helens F2
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
St. Helens, Big Andy Ridge, Primrose
5. TOTAL CIRCUIT LENGTH (MILES) 65.7
6. CUSTOMER COUNT FOR THIS CIRCUIT 691
7.. DATE OF LAST CIRCUIT TRIM (VM) 2019
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	0.2%	0.4%
Equipment	30%	18%
Lightning	11%	18%
Maintenance	2%	4%
Other Utilities	0.1%	0.1%
Scheduled	8%	7%
Squirrel	2%	3%
Thunder Storm	22%	18%
Tree/Limb out of ROW	22%	29%
Unknown Cause	1%	2%
Vehicles/Heavy Equipment	0.2%	0.3%
Vines/Kudzu	0.2%	0.2%
Wind	1%	1%
Woodcutter	0.1%	0.2%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 492
10. REPORTING YEAR (SAIDI) 964
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 3.2681
12. REPORTING YEAR (SAIFI) 5.7308
13. CORRECTIVE ACTION PLAN

Equipment issues were located and corrected.

CIRCUIT #: 6

1. SUBSTATION NAME AND NUMBER Beattyville 03E011
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
1251 HWY 52 East, Beattyville, KY 41311
3. CIRCUIT NAME AND NUMBER Heidelberg F3
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
HWY 52, HWY 11 and across hills to Heidelberg
5. TOTAL CIRCUIT LENGTH (MILES) 121.6
6. CUSTOMER COUNT FOR THIS CIRCUIT 644
7. DATE OF LAST CIRCUIT TRIM (VM) 2017
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	0.4%	1%
Customer Responsible	0.1%	0.1%
Equipment	47%	49%
Fire	0.03%	0.04%
Maintenance	3%	3%
Overload	0.4%	2%
Scheduled	16%	13%
Squirrel	6%	8%
Tree/Limb in ROW	1%	1%
Tree/Limb out of ROW	16%	12%
Unknown Cause	4%	5%
Vines/Kudzu	1%	1%
Wind	5%	5%
Woodcutter	2%	2%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 235
10. REPORTING YEAR (SAIDI) 352
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 2.0161
12. REPORTING YEAR (SAIFI) 4.028
13. CORRECTIVE ACTION PLAN

Equipment issues were located and corrected.

CIRCUIT #: 7

1. SUBSTATION NAME AND NUMBER Beattyville 03E011
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 HWY 1144 West of Beattyville
5. TOTAL CIRCUIT LENGTH (MILES) 87
6. CUSTOMER COUNT FOR THIS CIRCUIT 578
7.. DATE OF LAST CIRCUIT TRIM (VM) 2017
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	0.5%	0.4%
Equipment	39%	29%
Maintenance	9%	12%
Scheduled	1%	1%
Squirrel	3%	4%
Tree/Limb in ROW	29%	42%
Tree/Limb out of ROW	4%	2%
Unknown Cause	6%	6%
Vehicles/Heavy Equipment	2%	1%
Wind	6%	2%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 164
10. REPORTING YEAR (SAIDI) 198
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.4604
12. REPORTING YEAR (SAIFI) 2.4464
13. CORRECTIVE ACTION PLAN Equipment issues were located and corrected.
Tree / Limb category was due to one outage lasting 57 minutes that affected
the entire feeder.

CIRCUIT #: 8

1. SUBSTATION NAME AND NUMBER Big Creek 03E102
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
100 North Hwy. 66, Manchester, KY 40962
3. CIRCUIT NAME AND NUMBER Jacks Creek F1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
HWY 66 to Hector Road and Joe Gilbert Road
5. TOTAL CIRCUIT LENGTH (MILES) 21.7
6. CUSTOMER COUNT FOR THIS CIRCUIT 170
7.. DATE OF LAST CIRCUIT TRIM (VM) 2018
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	1%	1%
Deterioration	0.1%	0.1%
Equipment	0.1%	0.1%
Fire	0.02%	0.03%
Ice/Snow	7%	2%
Lightning	0.3%	0.3%
Maintenance	1%	1%
Squirrel	2%	2%
Tree/Limb in ROW	0.1%	0.1%
Tree/Limb out of ROW	61%	59%
Unknown Cause	24%	31%
Vehicles/Heavy Equipment	2%	2%
Vines/Kudzu	1%	1%
Wind	2%	1%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 239
10. REPORTING YEAR (SAIDI) 783
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 2.1441
12. REPORTING YEAR (SAIFI) 7.4133
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).

CIRCUIT #: 9

1. SUBSTATION NAME AND NUMBER Big Creek 03E102
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)
East along HWY 421 in Big Creek Area
5. TOTAL CIRCUIT LENGTH (MILES) 7.4
6. CUSTOMER COUNT FOR THIS CIRCUIT 176
7.. DATE OF LAST CIRCUIT TRIM (VM) 2019
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	1%	1%
Equipment	0.5%	0.3%
Ice/Snow	5%	5%
Thunder Storm	14%	11%
Tree/Limb in ROW	59%	60%
Tree/Limb out of ROW	10%	7%
Unknown Cause	5%	8%
Vehicles/Heavy Equipment	7%	7%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 170
10. REPORTING YEAR (SAIDI) 197
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.2757
12. REPORTING YEAR (SAIFI) 1.6932
13. CORRECTIVE ACTION PLAN The outage category of Tree / Limb in the ROW
was due to one outage lasting 4 hours and 13 minutes which affected the
entire feeder. During restoration an issue developed with an unfused side
tap that required attention before the rstoration could be completed.
This caused the outage to last longer than it would have otherwise.

CIRCUIT #: 10

1. SUBSTATION NAME AND NUMBER Big Creek 03E102
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
100 North Hwy. 66, Manchester, KY 40962
3. CIRCUIT NAME AND NUMBER Flat Creek F3
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
HWY 421 and Big Creek Road
5. TOTAL CIRCUIT LENGTH (MILES) 39.6
6. CUSTOMER COUNT FOR THIS CIRCUIT 468
7.. DATE OF LAST CIRCUIT TRIM (VM) 2017
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Equipment	0.2%	
Fire	0.1%	
Flood	39%	
Ice/Snow	44%	
Lightning	0.1%	
Maintenance	1%	
Squirrel	0.3%	
Thunder Storm	1%	
Tree/Limb in ROW	0.1%	
Tree/Limb out of ROW	11%	
Unknown Cause	0.2%	
Vines/Kudzu	0.1%	
Wind	4%	

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 378
10. REPORTING YEAR (SAIDI) 573
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 2.1118
12. REPORTING YEAR (SAIFI) 1.8333
13. CORRECTIVE ACTION PLAN None

CIRCUIT #: 11

1. SUBSTATION NAME AND NUMBER Booneville 03E056
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)
HWY 30 to Lerose in Owsley County
5. TOTAL CIRCUIT LENGTH (MILES) 41.8
6. CUSTOMER COUNT FOR THIS CIRCUIT 433
7.. DATE OF LAST CIRCUIT TRIM (VM) 2020
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Equipment	5%	
Lightning	2%	
Maintenance	1%	
Mudslide	1%	
Scheduled	1%	
Squirrel	2%	
Tree/Limb out of ROW	4%	
Unknown Cause	3%	
Vehicles/Heavy Equipment	81%	

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 322
10. REPORTING YEAR (SAIDI) 330
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 2.5601
12. REPORTING YEAR (SAIFI) 1.7298
13. CORRECTIVE ACTION PLAN None

CIRCUIT #: 12

1. SUBSTATION NAME AND NUMBER Booneville 03E056
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) 27.1
6. CUSTOMER COUNT FOR THIS CIRCUIT 555
7.. DATE OF LAST CIRCUIT TRIM (VM) 2020
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	0.1%	0.1%
Lightning	1%	1%
Maintenance	2%	3%
Mudslide	25%	26%
Squirrel	4%	3%
Tree/Limb out of ROW	44%	55%
Unknown Cause	6%	7%
Vehicles/Heavy Equipment	18%	4%
Wind	0.1%	0.05%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 266
10. REPORTING YEAR (SAIDI) 296
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 2.424
12. REPORTING YEAR (SAIFI) 3.7712
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).

CIRCUIT #: 13

1. SUBSTATION NAME AND NUMBER Brodhead 03S082
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) 78.9
6. CUSTOMER COUNT FOR THIS CIRCUIT 792
7.. DATE OF LAST CIRCUIT TRIM (VM) 2017
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	1%	
Customer Responsible	0.1%	
Equipment	2%	
Lightning	44%	
Maintenance	0.5%	
Scheduled	1%	
Squirrel	1%	
Thunder Storm	0.1%	
Tree/Limb out of ROW	45%	
Unknown Cause	4%	
Vehicles/Heavy Equipment	0.1%	
Vines/Kudzu	1%	
Wind	0.3%	

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 300
10. REPORTING YEAR (SAIDI) 343
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 3.1322
12. REPORTING YEAR (SAIFI) 2.5152
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).

CIRCUIT #: 14

1. SUBSTATION NAME AND NUMBER Brodhead 03S082
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)
Southeast of Brodhead toward Mt Vernon and Renfro Valley
5. TOTAL CIRCUIT LENGTH (MILES) 45.6
6. CUSTOMER COUNT FOR THIS CIRCUIT 437
7. DATE OF LAST CIRCUIT TRIM (VM) 2016 Scheduled for 2021
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	0.5%	1%
Maintenance	3%	3%
Squirrel	1%	2%
Tree/Limb in ROW	0.1%	0.1%
Tree/Limb out of ROW	74%	76%
Unknown Cause	1%	2%
Vines/Kudzu	9%	10%
Wind	12%	7%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 157
10. REPORTING YEAR (SAIDI) 274
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.0375
12. REPORTING YEAR (SAIFI) 1.7437
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).

CIRCUIT #: 15

1. SUBSTATION NAME AND NUMBER Brodhead 03S082
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)
Southwest of Brodhead including the Ottowa community
5. TOTAL CIRCUIT LENGTH (MILES) 50.4
6. CUSTOMER COUNT FOR THIS CIRCUIT 510
7.. DATE OF LAST CIRCUIT TRIM (VM) 2016 Scheduled for 2021
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	0.1%	
Bad Connection	1%	
Equipment	1%	
Lightning	0%	
Maintenance	1%	
Scheduled	2%	
Squirrel	3%	
Thunder Storm	4%	
Unknown Cause	1%	
Wind	86%	

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 330
10. REPORTING YEAR (SAIDI) 602
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 2.2809
12. REPORTING YEAR (SAIFI) 1.6879
13. CORRECTIVE ACTION PLAN None

CIRCUIT #: 16

1. SUBSTATION NAME AND NUMBER Brodhead 03S082
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)
South of Brodhead along HWY 70
5. TOTAL CIRCUIT LENGTH (MILES) 68.1
6. CUSTOMER COUNT FOR THIS CIRCUIT 692
7.. DATE OF LAST CIRCUIT TRIM (VM) 2015 Scheduled 2021
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	0.1%	
Equipment	5%	
Large Animal	0.4%	
Lightning	5%	
Maintenance	3%	
Other Utilities	1%	
Scheduled	1%	
Squirrel	0.3%	
Thunder Storm	1%	
Tree/Limb in ROW	1%	
Tree/Limb out of ROW	2%	
Unknown Cause	2%	
Wind	78%	

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 209
10. REPORTING YEAR (SAIDI) 313
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.9286
12. REPORTING YEAR (SAIFI) 1.6879
13. CORRECTIVE ACTION PLAN None

CIRCUIT #: 17

1. SUBSTATION NAME AND NUMBER Campground 03S020
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)
Rough Creek Rd, Crooked Creek Dr., Farris Road, Laurel Rd, Conley Rd
5. TOTAL CIRCUIT LENGTH (MILES) 30
6. CUSTOMER COUNT FOR THIS CIRCUIT 632
7.. DATE OF LAST CIRCUIT TRIM (VM) 2016
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	1%	1%
Equipment	0.1%	0.1%
Lightning	1%	1%
Overload	60%	64%
Scheduled	7%	5%
Squirrel	1%	1%
Tree/Limb out of ROW	6%	3%
Unknown Cause	14%	14%
Vehicles/Heavy Equipment	11%	10%
Wind	2%	0.2%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 62
10. REPORTING YEAR (SAIDI) 133
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.7648
12. REPORTING YEAR (SAIFI) 1.7104
13. CORRECTIVE ACTION PLAN Overload category was due to two different outages
on 5-6-2020. Both outages were due to overloaded reclosers during a
backfeed situation due to a storm In both outages the recloser was
bypassed to restore power.

CIRCUIT #: 18

1. SUBSTATION NAME AND NUMBER Campground 03S020
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
790 Smith Brewer Rd., London, KY 40744
3. CIRCUIT NAME AND NUMBER Old State Rd F3
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Parks Subdivision, Old State Rd, Happy Hollow Rd, Baker Rd
5. TOTAL CIRCUIT LENGTH (MILES) 19.4
6. CUSTOMER COUNT FOR THIS CIRCUIT 415
7. DATE OF LAST CIRCUIT TRIM (VM) 2017
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	1%	2%
Equipment	6%	5%
Maintenance	0.5%	0.4%
Thunder Storm	52%	53%
Tree/Limb out of ROW	2%	2%
Unknown Cause	38%	38%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 107
10. REPORTING YEAR (SAIDI) 170
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.3514
12. REPORTING YEAR (SAIFI) 2.5325
13. CORRECTIVE ACTION PLAN

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

CIRCUIT #: 19

1. SUBSTATION NAME AND NUMBER Campground 03S020
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
790 Smith Brewer Rd., London, KY 40744
3. CIRCUIT NAME AND NUMBER Tom Cat Trail F4
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
HWY 521 and HWY 80 toward Brock, East of London
5. TOTAL CIRCUIT LENGTH (MILES) 38.2
6. CUSTOMER COUNT FOR THIS CIRCUIT 766
7. DATE OF LAST CIRCUIT TRIM (VM) 2020
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	0.01%	0.05%
Equipment	12%	23%
Large Animal	0.1%	0.3%
Lightning	1%	2%
Maintenance	1%	1%
Scheduled	1%	1%
ROW Crew	1%	1%
Squirrel	1%	1%
Thunder Storm	42%	23%
Tree/Limb in ROW	1%	1%
Tree/Limb out of ROW	8%	9%
Unknown Cause	1%	1%
Vehicles/Heavy Equipment	31%	36%
Wind	1%	1%
Woodcutter	0.1%	0.2%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 126
10. REPORTING YEAR (SAIDI) 315
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.2444
12. REPORTING YEAR (SAIFI) 2.8316
13. CORRECTIVE ACTION PLAN

Equipment issues were located and corrected.

CIRCUIT #: 20

1. SUBSTATION NAME AND NUMBER Conway 03S103
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)
South along US-25 toward Roundstone
5. TOTAL CIRCUIT LENGTH (MILES) 63
6. CUSTOMER COUNT FOR THIS CIRCUIT 788
7. DATE OF LAST CIRCUIT TRIM (VM) 2015 Scheduled 2021
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Equipment	1%	2%
Lightning	1%	1%
Maintenance	1%	2%
Overload	0.03%	0.1%
Scheduled	3%	2%
Thunder Storm	0.1%	0.2%
Tree/Limb out of ROW	4%	7%
Unknown Cause	6%	11%
Vandals	0.03%	0.1%
Vehicles/Heavy Equipment	83%	74%
Vines/Kudzu	0.1%	0.2%
Woodcutter	0.1%	0.1%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 147
10. REPORTING YEAR (SAIDI) 289
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.066
12. REPORTING YEAR (SAIFI) 1.4201
13. CORRECTIVE ACTION PLAN None

CIRCUIT #: 21

1. SUBSTATION NAME AND NUMBER Conway 03S103
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)
North along US-25 toward Berea
5. TOTAL CIRCUIT LENGTH (MILES) 16.2
6. CUSTOMER COUNT FOR THIS CIRCUIT 271
7. DATE OF LAST CIRCUIT TRIM (VM) 2020
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	3%	6%
Maintenance	1%	0.3%
Scheduled	25%	25%
Squirrel	10%	14%
Tree/Limb out of ROW	6%	7%
Unknown Cause	42%	40%
Wind	13%	7%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 110
10. REPORTING YEAR (SAIDI) 169
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.8207
12. REPORTING YEAR (SAIFI) 1.3432
13. CORRECTIVE ACTION PLAN

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

CIRCUIT #: 22

1. SUBSTATION NAME AND NUMBER Conway 03S103
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)
Area East of US-25 toward Climax
5. TOTAL CIRCUIT LENGTH (MILES) 54.5
6. CUSTOMER COUNT FOR THIS CIRCUIT 479
7.. DATE OF LAST CIRCUIT TRIM (VM) 2020
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Equipment	0.4%	0.3%
Flood	4%	5%
Maintenance	19%	32%
Scheduled	10%	11%
ROW Crew	2%	2%
Squirrel	1%	1%
Thunder Storm	7%	2%
Tree/Limb in ROW	0.2%	0.1%
Tree/Limb out of ROW	4%	5%
Unknown Cause	8%	11%
Vehicles/Heavy Equipment	4%	1%
Wind	42%	29%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 235
10. REPORTING YEAR (SAIDI) 244
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.887
12. REPORTING YEAR (SAIFI) 1.9958
13. CORRECTIVE ACTION PLAN None

CIRCUIT #: 23

1. SUBSTATION NAME AND NUMBER East Bernstadt 03E015
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)
West of I-75 along Glenview Road
5. TOTAL CIRCUIT LENGTH (MILES) 18.7
6. CUSTOMER COUNT FOR THIS CIRCUIT 418
7. DATE OF LAST CIRCUIT TRIM (VM) 2020
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	2%	3%
Equipment	1%	2%
Overload	0.2%	0.3%
Scheduled	21%	18%
Tree/Limb out of ROW	1%	3%
Unknown Cause	0.3%	1%
Vehicles/Heavy Equipment	75%	73%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 75
10. REPORTING YEAR (SAIDI) 153
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.7112
12. REPORTING YEAR (SAIFI) 0.8493
13. CORRECTIVE ACTION PLAN None
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CIRCUIT #: 24

1. SUBSTATION NAME AND NUMBER East Bernstadt 03E015
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)
US-25 North toward Hazel Patch
5. TOTAL CIRCUIT LENGTH (MILES) 73.2
6. CUSTOMER COUNT FOR THIS CIRCUIT 998
7. DATE OF LAST CIRCUIT TRIM (VM) 2019
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%
Equipment	4%	11%
Lightning	1%	1%
Maintenance	1%	5%
Overload	2%	1%
Scheduled	3%	3%
Squirrel	1%	1%
Thunder Storm	10%	6%
Tree/Limb out of ROW	64%	59%
Unknown Cause	10%	8%
Vehicles/Heavy Equipment	0.2%	0.4%
Wind	4%	3%
Woodcutter	1%	1%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 251
10. REPORTING YEAR (SAIDI) 339
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 2.0022
12. REPORTING YEAR (SAIFI) 2.5932
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).

CIRCUIT #: 25

1. SUBSTATION NAME AND NUMBER Eberle 03E049
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
1601 Mt. Zion Rd., East Bernstadt, KY 40729
3. CIRCUIT NAME AND NUMBER Letterbox F1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Eberle Rd, KY 2003, Nichols Br. Rd,
5. TOTAL CIRCUIT LENGTH (MILES) 55
6. CUSTOMER COUNT FOR THIS CIRCUIT 470
7.. DATE OF LAST CIRCUIT TRIM (VM) 2020
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird		1%
Equipment		0.3%
Lightning		1%
Maintenance		4%
Squirrel		16%
Thunder Storm		9%
Tree/Limb in ROW		3%
Tree/Limb out of ROW		45%
Unknown Cause		12%
Vines/Kudzu		3%
Wind		6%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 148
10. REPORTING YEAR (SAIDI) 99
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.5478
12. REPORTING YEAR (SAIFI) 1.5511
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).

CIRCUIT #: 26

1. SUBSTATION NAME AND NUMBER Eberle 03E049
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
1601 Mt. Zion Rd., East Bernstadt, KY 40729
3. CIRCUIT NAME AND NUMBER Hwy 490 F3
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
West along HWY-490 toward Livingston
5. TOTAL CIRCUIT LENGTH (MILES) 85.2
6. CUSTOMER COUNT FOR THIS CIRCUIT 704
7. DATE OF LAST CIRCUIT TRIM (VM) 2016
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	1%	1%
Deterioration	2%	1%
Equipment	2%	2%
Lightning	1%	1%
Maintenance	7%	13%
Scheduled	0.3%	1%
Squirrel	2%	3%
Thunder Storm	3%	1%
Tree/Limb out of ROW	59%	55%
Unknown Cause	6%	11%
Wind	18%	13%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 180
10. REPORTING YEAR (SAIDI) 194
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.2015
12. REPORTING YEAR (SAIFI) 1.6847
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).

CIRCUIT #: 27

1. SUBSTATION NAME AND NUMBER Elk Mountain 03E122
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
478 Clay-Leslie Road Manchester, KY 40962
3. CIRCUIT NAME AND NUMBER Brightshade F2
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Brightshade and Asher's Fork
5. TOTAL CIRCUIT LENGTH (MILES) 66
6. CUSTOMER COUNT FOR THIS CIRCUIT 666
7. DATE OF LAST CIRCUIT TRIM (VM) 2017
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	1%	1%
Deterioration	1%	0.5%
Equipment	10%	10%
Ice/Snow	16%	11%
Lightning	0.1%	0.1%
Maintenance	4%	7%
Scheduled	27%	34%
Squirrel	1%	2%
Tree/Limb in ROW	1%	4%
Tree/Limb out of ROW	22%	18%
Unknown Cause	4%	5%
Vandals	0.03%	0.04%
Vehicles/Heavy Equipment	0.3%	0.2%
Vines/Kudzu	0.04%	0.1%
Wind	11%	5%
Woodcutter	1%	2%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 321
10. REPORTING YEAR (SAIDI) 642
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.9737
12. REPORTING YEAR (SAIFI) 3.9459
13. CORRECTIVE ACTION PLAN None

CIRCUIT #: 28

1. SUBSTATION NAME AND NUMBER Fall Rock 03E016
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
5699 N. Highway 421 Manchester, KY 40962
3. CIRCUIT NAME AND NUMBER Oneida F1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Along HWY 11 toward Oneida
5. TOTAL CIRCUIT LENGTH (MILES) 37.3
6. CUSTOMER COUNT FOR THIS CIRCUIT 378
7.. DATE OF LAST CIRCUIT TRIM (VM) 2015 Scheduled 2021
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Equipment	1%	1%
Fire	0.3%	0.3%
Ice/Snow	6%	1%
Maintenance	0.5%	1%
Overload	1%	10%
Squirrel	3%	3%
Thunder Storm	0.3%	1%
Tree/Limb in ROW	2%	1%
Tree/Limb out of ROW	15%	8%
Unknown Cause	27%	52%
Vehicles/Heavy Equipment	35%	11%
Vines/Kudzu	0.4%	1%
Wind	11%	9%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 234
10. REPORTING YEAR (SAIDI) 246
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 2.4254
12. REPORTING YEAR (SAIFI) 2.4709
13. CORRECTIVE ACTION PLAN

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

CIRCUIT #: 29

1. SUBSTATION NAME AND NUMBER Fall Rock 03E016
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
5699 N. Highway 421 Manchester, KY 40962
3. CIRCUIT NAME AND NUMBER Greenbriar F2
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Along HWY 421 to Overlook Lane
5. TOTAL CIRCUIT LENGTH (MILES) 21
6. CUSTOMER COUNT FOR THIS CIRCUIT 400
7. DATE OF LAST CIRCUIT TRIM (VM) 2017
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Equipment	3%	2%
Maintenance	1%	1%
Scheduled	1%	1%
Squirrel	5%	7%
Tree/Limb in ROW	6%	4%
Tree/Limb out of ROW	54%	46%
Unknown Cause	9%	8%
Wind	23%	32%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 363
10. REPORTING YEAR (SAIDI) 503
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 3.0327
12. REPORTING YEAR (SAIFI) 5.08
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).

CIRCUIT #: 30

1. SUBSTATION NAME AND NUMBER Fall Rock 03E016
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
5699 N. Highway 421 Manchester, KY 40962
3. CIRCUIT NAME AND NUMBER Foggertown F3
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
US-421 toward Burning Springs and along KY-472
5. TOTAL CIRCUIT LENGTH (MILES) 117.6
6. CUSTOMER COUNT FOR THIS CIRCUIT 1161
7.. DATE OF LAST CIRCUIT TRIM (VM) 2016
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	1%	1%
Bad Connection	0.03%	0.03%
Equipment	1%	1%
Ice/Snow	6%	2%
Lightning	1%	1%
Maintenance	4%	6%
Scheduled	15%	12%
Squirrel	1%	2%
Tree/Limb in ROW	20%	12%
Tree/Limb out of ROW	33%	42%
Unknown Cause	4%	5%
Vehicles/Heavy Equipment	1%	2%
Wind	4%	1%
Woodcutter	8%	12%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 195
10. REPORTING YEAR (SAIDI) 306
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.4672
12. REPORTING YEAR (SAIFI) 3.056
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).

CIRCUIT #: 31

1. SUBSTATION NAME AND NUMBER Greenbriar 03E076
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
248 Needmore Hollow Rd., Manchester, 40962
3. CIRCUIT NAME AND NUMBER Island Creek F2
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
HWY 421, HWY 638, Bales Creek, Upper Rader, Sidell
5. TOTAL CIRCUIT LENGTH (MILES) 33.7
6. CUSTOMER COUNT FOR THIS CIRCUIT 609
7. DATE OF LAST CIRCUIT TRIM (VM) 2019
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	3%	
Equipment	14%	
Lightning	3%	
Maintenance	3%	
Overload	0.3%	
Scheduled	31%	
Squirrel	8%	
Thunder Storm	1%	
Tree/Limb out of ROW	27%	
Unknown Cause	8%	
Vines/Kudzu	1%	
Wind	2%	

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 160
10. REPORTING YEAR (SAIDI) 176
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.7124
12. REPORTING YEAR (SAIFI) 1.335
13. CORRECTIVE ACTION PLAN None

CIRCUIT #: 32

1. SUBSTATION NAME AND NUMBER Greenbriar 03E076
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)
South along US-421 toward Manchester
5. TOTAL CIRCUIT LENGTH (MILES) 17.5
6. CUSTOMER COUNT FOR THIS CIRCUIT 309
7. DATE OF LAST CIRCUIT TRIM (VM) 2019
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Maintenance	1%	1%
Scheduled	16%	15%
Squirrel	3%	2%
Tree/Limb in ROW	19%	9%
Tree/Limb out of ROW	58%	70%
Unknown Cause	0.5%	0.4%
Wind	3%	1%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 74
10. REPORTING YEAR (SAIDI) 131
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.817
12. REPORTING YEAR (SAIFI) 1.5987
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).

CIRCUIT #: 33

1. SUBSTATION NAME AND NUMBER Greenbriar 03E076
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)
Area West of Greenbriar along Hwy 638 and 687 toward Urban
5. TOTAL CIRCUIT LENGTH (MILES) 57.9
6. CUSTOMER COUNT FOR THIS CIRCUIT 631
7. DATE OF LAST CIRCUIT TRIM (VM) 2019
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	0.2%	1%
Equipment	3%	9%
Flood	13%	4%
Maintenance	3%	4%
Mudslide	23%	11%
Scheduled	8%	6%
Squirrel	1%	2%
Thunder Storm	0.1%	0.1%
Tree/Limb in ROW	1%	1%
Tree/Limb out of ROW	34%	46%
Unknown Cause	3%	5%
Vehicles/Heavy Equipment	2%	2%
Wind	7%	7%
Woodcutter	2%	2%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 304
10. REPORTING YEAR (SAIDI) 330
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 2.0897
12. REPORTING YEAR (SAIFI) 2.2282
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).

CIRCUIT #: 34

1. SUBSTATION NAME AND NUMBER Greenhall 03E093
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
449 Creech Rd., Tyner, KY 40486
3. CIRCUIT NAME AND NUMBER New Zion F3
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Along HWY 587 to New Zion and Arvel
5. TOTAL CIRCUIT LENGTH (MILES) 79.7
6. CUSTOMER COUNT FOR THIS CIRCUIT 508
7.. DATE OF LAST CIRCUIT TRIM (VM) 2016
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	0.05%	0.1%
Equipment	19%	35%
Lightning	0.3%	0.1%
Maintenance	4%	2%
Overload	44%	36%
Scheduled	4%	2%
Squirrel	0.1%	0.1%
Tree/Limb out of ROW	0.5%	0.4%
Unknown Cause	4%	4%
Wind	2%	0.4%
Woodcutter	22%	20%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 153
10. REPORTING YEAR (SAIDI) 179
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.532
12. REPORTING YEAR (SAIFI) 2.8071
13. CORRECTIVE ACTION PLAN

Overload category due to one outage on 12-25-2020. Tyner substation was off line due to snow. Overload occurred trying to pick up some load from Tyner onto Greenhall substation.
The outage affected 512 members for one hour and seventeen minutes.

CIRCUIT #: 35

1. SUBSTATION NAME AND NUMBER Greenhall 03E093
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
449 Creech Rd., Tyner, KY 40486
3. CIRCUIT NAME AND NUMBER Tyner F4
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Along HWY 30 toward Tyner
5. TOTAL CIRCUIT LENGTH (MILES) 32.2
6. CUSTOMER COUNT FOR THIS CIRCUIT 254
7.. DATE OF LAST CIRCUIT TRIM (VM) 2016 Scheduled 2021
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Bad Connection	15%	51%
Equipment	0.3%	0.2%
Lightning	5%	1%
Maintenance	15%	10%
Scheduled	20%	10%
Tree/Limb out of ROW	1%	1%
Unknown Cause	25%	16%
Vehicles/Heavy Equipment	9%	8%
Wind	9%	3%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 91
10. REPORTING YEAR (SAIDI) 102
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.004
12. REPORTING YEAR (SAIFI) 1.9449
13. CORRECTIVE ACTION PLAN

Bad connection category due to one outage lasting 17 minutes.

Bad connection was located and fixed.

CIRCUIT #: 36

1. SUBSTATION NAME AND NUMBER Hargett 03E091
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
100 East Ky Power Lane, Irvine, KY 40336
3. CIRCUIT NAME AND NUMBER Spout Springs F1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Spout Springs Rd, Hudson Mill Road, State HWY 2001
5. TOTAL CIRCUIT LENGTH (MILES) 25.8
6. CUSTOMER COUNT FOR THIS CIRCUIT 247
7.. DATE OF LAST CIRCUIT TRIM (VM) 2018
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Equipment	20%	13%
Ice/Snow	2%	1%
Large Animal	0.5%	0.4%
Lightning	0.1%	0.1%
Maintenance	15%	35%
Squirrel	1%	2%
Thunder Storm	21%	8%
Tree/Limb out of ROW	38%	35%
Unknown Cause	3%	3%
Vehicles/Heavy Equipment	1%	1%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 153
10. REPORTING YEAR (SAIDI) 318
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.4043
12. REPORTING YEAR (SAIFI) 3.1741
13. CORRECTIVE ACTION PLAN

Equipment issue was located and corrected.

CIRCUIT #: 37

1. SUBSTATION NAME AND NUMBER Hargett 03E091
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)
HWY 82 then along HWY 89 toward Palmer
5. TOTAL CIRCUIT LENGTH (MILES) 42.7
6. CUSTOMER COUNT FOR THIS CIRCUIT 370
7.. DATE OF LAST CIRCUIT TRIM (VM) 2018
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird		3%
Bad Connection		0.1%
Equipment		2%
Ice/Snow		3%
Lightning		5%
Maintenance		54%
Scheduled		11%
Squirrel		0.1%
Thunder Storm		1%
Tree/Limb in ROW		5%
Unknown Cause		9%
Wind		8%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 200
10. REPORTING YEAR (SAIDI) 147
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.547
12. REPORTING YEAR (SAIFI) 2.0946
13. CORRECTIVE ACTION PLAN None

CIRCUIT #: 38

1. SUBSTATION NAME AND NUMBER Keavy 1 03E055
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
167 E. Highway 312, Corbin, KY 40701
3. CIRCUIT NAME AND NUMBER Rooks Branch F1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Rooks Branch, Paris Karr Road
5. TOTAL CIRCUIT LENGTH (MILES) 16.2
6. CUSTOMER COUNT FOR THIS CIRCUIT 269
7. DATE OF LAST CIRCUIT TRIM (VM) 2015 Scheduled 2021
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	2%	2%
Equipment	0.3%	0.4%
Squirrel	7%	13%
Thunder Storm	0.2%	0.2%
Tree/Limb out of ROW	39%	52%
Unknown Cause	40%	30%
Wind	11%	2%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 167
10. REPORTING YEAR (SAIDI) 191
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.8308
12. REPORTING YEAR (SAIFI) 1.9182
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).

CIRCUIT #: 39

1. SUBSTATION NAME AND NUMBER Keavy 2 03E055A
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
167 E. Highway 312, Corbin, KY 40701
3. CIRCUIT NAME AND NUMBER Level Green F3
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Level Green Rd, Flatwoods Rd, Keavy Loop Rd
5. TOTAL CIRCUIT LENGTH (MILES) 35.8
6. CUSTOMER COUNT FOR THIS CIRCUIT 612
7. DATE OF LAST CIRCUIT TRIM (VM) 2018
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Equipment	22%	9%
Maintenance	1%	9%
Overload	24%	22%
Scheduled	8%	9%
Squirrel	0.2%	1%
Thunder Storm	9%	9%
Tree/Limb in ROW	1%	2%
Tree/Limb out of ROW	1%	1%
Unknown Cause	26%	29%
Vines/Kudzu	3%	5%
Woodcutter	3%	6%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 86
10. REPORTING YEAR (SAIDI) 90
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.756
12. REPORTING YEAR (SAIFI) 0.9379
13. CORRECTIVE ACTION PLAN

Overload category due to two outages each involving a fuse.

Both issues were addressed.

CIRCUIT #: 40

1. SUBSTATION NAME AND NUMBER Keavy 2 03E055A
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
167 E. Highway 312, Corbin, KY 40701
3. CIRCUIT NAME AND NUMBER Locust Grove F5
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
HWY 312, Keavy Rd, Topton Rd
5. TOTAL CIRCUIT LENGTH (MILES) 22.8
6. CUSTOMER COUNT FOR THIS CIRCUIT 389
7. DATE OF LAST CIRCUIT TRIM (VM) 2020
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	0.05%	0.2%
Equipment	1%	3%
Lightning	1%	2%
Maintenance	0.4%	1%
Scheduled	4%	8%
Squirrel	0.1%	0.3%
Thunder Storm	89%	65%
Tree/Limb out of ROW	1%	3%
Unknown Cause	3%	14%
Vehicles/Heavy Equipment	0.2%	0.3%
Vines/Kudzu	1%	3%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 154
10. REPORTING YEAR (SAIDI) 345
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.3482
12. REPORTING YEAR (SAIFI) 1.527
13. CORRECTIVE ACTION PLAN None

CIRCUIT #: 41

1. SUBSTATION NAME AND NUMBER Laurel Ind 1 03E088
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)
Area North of KY-80 along KY-1956
5. TOTAL CIRCUIT LENGTH (MILES) 24.5
6. CUSTOMER COUNT FOR THIS CIRCUIT 560
7.. DATE OF LAST CIRCUIT TRIM (VM) 2019
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird		45%
Customer Responsible		1%
Equipment		0.4%
Lightning		0.2%
Maintenance		45%
Scheduled		2%
Squirrel		0.5%
Tree/Limb out of ROW		4%
Unknown Cause		2%
Vehicles/Heavy Equipment		0.3%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 80
10. REPORTING YEAR (SAIDI) 76
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.1762
12. REPORTING YEAR (SAIFI) 2.2571
13. CORRECTIVE ACTION PLAN

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

CIRCUIT #: 42

1. SUBSTATION NAME AND NUMBER Laurel Ind 2 03E088A
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
747 Sinking Creek Rd., London, KY 40741
3. CIRCUIT NAME AND NUMBER Hawk Creek F4
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Along HWY 80, Hawk Creek
5. TOTAL CIRCUIT LENGTH (MILES) 51.4
6. CUSTOMER COUNT FOR THIS CIRCUIT 846
7.. DATE OF LAST CIRCUIT TRIM (VM) 2017
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	24%	22%
Lightning	1%	1%
Maintenance	1%	1%
Overload	23%	35%
Scheduled	2%	2%
Squirrel	1%	1%
Thunder Storm	6%	2%
Tree/Limb out of ROW	32%	25%
Unknown Cause	10%	11%
Vehicles/Heavy Equipment	0.03%	0.1%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 136
10. REPORTING YEAR (SAIDI) 227
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.9434
12. REPORTING YEAR (SAIFI) 2.7565
13. CORRECTIVE ACTION PLAN Overload category due to 2 outages.

On 2-10-2020 East Bernstadt substation went off line due to a problem inside the substation. Attempts were made to backfeed some of the substation from this feeder. Both overloads were due reclosers not able to handle the load.
Equipment issues were located and corrected.

CIRCUIT #: 43

1. SUBSTATION NAME AND NUMBER Maplesville 03E077
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)
HWY 638 toward London
5. TOTAL CIRCUIT LENGTH (MILES) 14.6
6. CUSTOMER COUNT FOR THIS CIRCUIT 251
7.. DATE OF LAST CIRCUIT TRIM (VM) 2015 Scheduled 2021
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Lightning	32%	44%
Maintenance	1%	2%
Squirrel	2%	3%
Thunder Storm	62%	47%
Unknown Cause	2%	4%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 147
10. REPORTING YEAR (SAIDI) 291
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.7533
12. REPORTING YEAR (SAIFI) 2.4104
13. CORRECTIVE ACTION PLAN None

CIRCUIT #: 44

1. SUBSTATION NAME AND NUMBER Maretburg 03S057
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)
South of Mt Vernon toward Sand Springs in Rockcastle County
5. TOTAL CIRCUIT LENGTH (MILES) 64.7
6. CUSTOMER COUNT FOR THIS CIRCUIT 533
7. DATE OF LAST CIRCUIT TRIM (VM) 2020
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Equipment	2%	3%
Lightning	0.3%	1%
Maintenance	0.3%	0.5%
Other Utilities	1%	3%
Scheduled	2%	4%
Squirrel	3%	4%
Thunder Storm	5%	5%
Tree/Limb in ROW	3%	8%
Tree/Limb out of ROW	77%	57%
Unknown Cause	7%	13%
Wind	0.2%	1%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 219
10. REPORTING YEAR (SAIDI) 319
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.381
12. REPORTING YEAR (SAIFI) 1.5553
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).

CIRCUIT #: 45

1. SUBSTATION NAME AND NUMBER McKee 03E014
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)
North of McKee on KY-89 toward Sand Springs in Jackson County
5. TOTAL CIRCUIT LENGTH (MILES) 46.7
6. CUSTOMER COUNT FOR THIS CIRCUIT 475
7. DATE OF LAST CIRCUIT TRIM (VM) 2018
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%
Equipment	2%	1%
Lightning	0.0%	0.1%
Maintenance	0.4%	0.3%
Scheduled	11%	17%
Squirrel	7%	5%
Thunder Storm	0.5%	0.4%
Tree/Limb out of ROW	74%	69%
Unknown Cause	5%	7%
Wind	1%	1%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 304
10. REPORTING YEAR (SAIDI) 357
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 2.9352
12. REPORTING YEAR (SAIFI) 3.0042
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).

CIRCUIT #: 46

1. SUBSTATION NAME AND NUMBER McKee 03E014
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
RT 290, McKee, KY 40447
3. CIRCUIT NAME AND NUMBER Indian Creek F3
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Southwest along HWY 89 toward Livingston
5. TOTAL CIRCUIT LENGTH (MILES) 13.8
6. CUSTOMER COUNT FOR THIS CIRCUIT 120
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2020
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Customer Responsible		0.3%
Equipment		3%
Lightning		1%
Maintenance		15%
Tree/Limb out of ROW		36%
Unknown Cause		39%
Wind		5%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 301
10. REPORTING YEAR (SAIDI) 158
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 2.3462
12. REPORTING YEAR (SAIFI) 2.7
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.

CIRCUIT #: 47

1. SUBSTATION NAME AND NUMBER McKee 03E014
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
RT 290, McKee, KY 40447
3. CIRCUIT NAME AND NUMBER Sand Gap F4
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Along HWY 421 towards Sand Gap
5. TOTAL CIRCUIT LENGTH (MILES) 20.6
6. CUSTOMER COUNT FOR THIS CIRCUIT 242
7.. DATE OF LAST CIRCUIT TRIM (VM) 2017
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	0.03%	0.3%
Equipment	1%	1%
Lightning	4%	4%
Maintenance	2%	2%
Thunder Storm	3%	4%
Tree/Limb in ROW	0.4%	1%
Unknown Cause	4%	6%
Vehicles/Heavy Equipment	86%	81%
Woodcutter	0.4%	0.3%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 57
10. REPORTING YEAR (SAIDI) 158
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 6509
12. REPORTING YEAR (SAIFI) 1.3967
13. CORRECTIVE ACTION PLAN None
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CIRCUIT #: 48

1. SUBSTATION NAME AND NUMBER McKee 03E014
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
RT 290, McKee, KY 40447
3. CIRCUIT NAME AND NUMBER McKee F5
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Downtown McKee, HWY 290
5. TOTAL CIRCUIT LENGTH (MILES) 4.3
6. CUSTOMER COUNT FOR THIS CIRCUIT 140
7.. DATE OF LAST CIRCUIT TRIM (VM) 2017
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Maintenance	27%	41%
Thunder Storm	61%	54%
Tree/Limb out of ROW	11%	4%
Vines/Kudzu	1%	2%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 29
10. REPORTING YEAR (SAIDI) 36
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.2759
12. REPORTING YEAR (SAIFI) 0.3857
13. CORRECTIVE ACTION PLAN None
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CIRCUIT #: 49

1. SUBSTATION NAME AND NUMBER Millers Creek 03E027
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
79 Beattyville, Rd., Irvine, KY 40472
3. CIRCUIT NAME AND NUMBER Pryce F3
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Barnes Mountain area South of Irvine
5. TOTAL CIRCUIT LENGTH (MILES) 54.8
6. CUSTOMER COUNT FOR THIS CIRCUIT 404
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2019
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%
Equipment	0.1%	0.1%
Ice/Snow	0.1%	0.1%
Lightning	3%	1%
Maintenance	3%	8%
Scheduled	4%	5%
Squirrel	1%	2%
Tree/Limb out of ROW	42%	50%
Unknown Cause	2%	2%
Wind	44%	33%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 267
10. REPORTING YEAR (SAIDI) 335
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 2.1081
12. REPORTING YEAR (SAIFI) 3.151
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).

CIRCUIT #: 50

1. SUBSTATION NAME AND NUMBER Oneida 03E067
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)
HWY 11, Cane Creek Rd, Stone Gap Rd, Rock Branch Rd
5. TOTAL CIRCUIT LENGTH (MILES) 39.3
6. CUSTOMER COUNT FOR THIS CIRCUIT 289
7. DATE OF LAST CIRCUIT TRIM (VM) 2018
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	2%	1%
Equipment	3%	4%
Ice/Snow	20%	25%
Maintenance	4%	13%
Scheduled	37%	26%
Squirrel	0.2%	0.4%
Thunder Storm	4%	3%
Tree/Limb in ROW	0.2%	1%
Tree/Limb out of ROW	7%	9%
Unknown Cause	9%	9%
Vehicles/Heavy Equipment	8%	5%
Vines/Kudzu	1%	1%
Wind	5%	1%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 629
10. REPORTING YEAR (SAIDI) 985
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 3.7837
12. REPORTING YEAR (SAIFI) 5.6574
13. CORRECTIVE ACTION PLAN None

CIRCUIT #: 51

1. SUBSTATION NAME AND NUMBER Oneida 03E067
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
11566 N. Highway 11, Manchester, KY 40962
3. CIRCUIT NAME AND NUMBER Little Bullskin F2
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
HWY 1482 to Whoopflarea
5. TOTAL CIRCUIT LENGTH (MILES) 7.3
6. CUSTOMER COUNT FOR THIS CIRCUIT 54
7.. DATE OF LAST CIRCUIT TRIM (VM) 2018
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Fire	2%	3%
Ice/Snow	32%	8%
Maintenance	10%	11%
Tree/Limb out of ROW	3%	4%
Vehicles/Heavy Equipment	53%	74%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 98
10. REPORTING YEAR (SAIDI) 174
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.8509
12. REPORTING YEAR (SAIFI) 1.3519
13. CORRECTIVE ACTION PLAN None

CIRCUIT #: 52

1. SUBSTATION NAME AND NUMBER Oneida 03E067
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)
HWY 1482 toward Brutus
5. TOTAL CIRCUIT LENGTH (MILES) 22.8
6. CUSTOMER COUNT FOR THIS CIRCUIT 222
7.. DATE OF LAST CIRCUIT TRIM (VM) 2019
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	0.4%	1%
Ice/Snow	15%	4%
Maintenance	15%	22%
Scheduled	44%	43%
Squirrel	0.4%	1%
Tree/Limb in ROW	1%	0.4%
Tree/Limb out of ROW	23%	28%
Unknown Cause	1%	1%
Vehicles/Heavy Equipment	1%	1%
Wind	1%	0.1%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 445
10. REPORTING YEAR (SAIDI) 533
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 3.4316
12. REPORTING YEAR (SAIFI) 4.4414
13. CORRECTIVE ACTION PLAN None

CIRCUIT #: 53

1. SUBSTATION NAME AND NUMBER Oneida 03E067
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
11566 N. Highway 11, Manchester, KY 40962
3. CIRCUIT NAME AND NUMBER Spurlock F4
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
HWY 66 toward Bar Creek
5. TOTAL CIRCUIT LENGTH (MILES) 24
6. CUSTOMER COUNT FOR THIS CIRCUIT 241
7.. DATE OF LAST CIRCUIT TRIM (VM) 2017
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	1%	1%
Equipment	1%	1%
Ice/Snow	12%	4%
Maintenance	1%	1%
Scheduled	21%	18%
Squirrel	0.3%	1%
Tree/Limb out of ROW	53%	63%
Unknown Cause	0.03%	0.1%
Vehicles/Heavy Equipment	1%	1%
Vines/Kudzu	1%	1%
Wind	10%	8%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 437
10. REPORTING YEAR (SAIDI) 758
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 2.5538
12. REPORTING YEAR (SAIFI) 4.3195
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).

CIRCUIT #: 54

1. SUBSTATION NAME AND NUMBER Oneida 03E067
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
11566 N. Highway 11, Manchester, KY 40962
3. CIRCUIT NAME AND NUMBER Wildcat F5
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
HWY 11 toward Wildcat
5. TOTAL CIRCUIT LENGTH (MILES) 8.6
6. CUSTOMER COUNT FOR THIS CIRCUIT 89
7.. DATE OF LAST CIRCUIT TRIM (VM) 2015 Scheduled 2021
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	1%	1%
Equipment	62%	30%
Maintenance	1%	1%
Squirrel	3%	4%
Tree/Limb out of ROW	32%	34%
Vines/Kudzu	1%	30%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 190
10. REPORTING YEAR (SAIDI) 480
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.5864
12. REPORTING YEAR (SAIFI) 3.1685
13. CORRECTIVE ACTION PLAN

Equipment issues were located and corrected.

CIRCUIT #: 55

1. SUBSTATION NAME AND NUMBER Pine Grove 1 03E086
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
165 Maple Grove Rd., London, KY 40741
3. CIRCUIT NAME AND NUMBER Yorkshire F1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Maple Grove Rd, Keavy Rd, Philpot Rd
5. TOTAL CIRCUIT LENGTH (MILES) 18.3
6. CUSTOMER COUNT FOR THIS CIRCUIT 664
7.. DATE OF LAST CIRCUIT TRIM (VM) 2019
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	2%	3%
Equipment	7%	9%
Maintenance	2%	3%
Scheduled	3%	4%
Squirrel	6%	8%
Thunder Storm	4%	2%
Tree/Limb out of ROW	60%	55%
Unknown Cause	6%	9%
Vehicles/Heavy Equipment	2%	4%
Vines/Kudzu	0.4%	0.3%
Wind	7%	2%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 107
10. REPORTING YEAR (SAIDI) 189
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.2285
12. REPORTING YEAR (SAIFI) 1.8193
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).

CIRCUIT #: 56

1. SUBSTATION NAME AND NUMBER Pine Grove 1 03E086
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)
Southwest toward Cold Hill along Maple Grove and KY-192
5. TOTAL CIRCUIT LENGTH (MILES) 29.7
6. CUSTOMER COUNT FOR THIS CIRCUIT 666
7. DATE OF LAST CIRCUIT TRIM (VM) 2015 Scheduled 2021
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	2%	3%
Bad Connection	0.1%	0.1%
Customer Responsible	0.3%	0.4%
Equipment	7%	2%
Lightning	4%	2%
Maintenance	1%	1%
Scheduled	1%	1%
Squirrel	2%	4%
Thunder Storm	9%	3%
Tree/Limb in ROW	2%	5%
Tree/Limb out of ROW	19%	24%
Unknown Cause	51%	54%
Vehicles/Heavy Equipment	1%	1%
Vines/Kudzu	1%	1%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 105
10. REPORTING YEAR (SAIDI) 138
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.9747
12. REPORTING YEAR (SAIFI) 1.1607
13. CORRECTIVE ACTION PLAN

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

CIRCUIT #: 57

1. SUBSTATION NAME AND NUMBER Pine Grove 2 03E086A
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)
HWY 363 toward Keavy
5. TOTAL CIRCUIT LENGTH (MILES) 27.3
6. CUSTOMER COUNT FOR THIS CIRCUIT 584
7.. DATE OF LAST CIRCUIT TRIM (VM) 2020
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	2%	1%
Squirrel	5%	8%
Thunder Storm	70%	36%
Tree/Limb out of ROW	8%	4%
Unknown Cause	3%	7%
Vehicles/Heavy Equipment	7%	38%
Wind	5%	6%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 161
10. REPORTING YEAR (SAIDI) 298
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.9389
12. REPORTING YEAR (SAIFI) 2.7825
13. CORRECTIVE ACTION PLAN None

CIRCUIT #: 58

1. SUBSTATION NAME AND NUMBER Rice Station 03E026
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)
HWY 594 toward West Irvine
5. TOTAL CIRCUIT LENGTH (MILES) 115.3
6. CUSTOMER COUNT FOR THIS CIRCUIT 1244
7.. DATE OF LAST CIRCUIT TRIM (VM) 2016 Scheduled 2021
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	0.2%	0.3%
Customer Responsible	0.2%	0.2%
Equipment	0.1%	0.1%
Lightning	2%	3%
Maintenance	5%	8%
Scheduled	6%	4%
Squirrel	2%	4%
Thunder Storm	0.4%	0.2%
Tree/Limb in ROW	1%	2%
Tree/Limb out of ROW	61%	24%
Unknown Cause	19%	50%
Vehicles/Heavy Equipment	2%	3%
Vines/Kudzu	0.2%	0.4%
Wind	0.3%	1%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 224
10. REPORTING YEAR (SAIDI) 329
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.6711
12. REPORTING YEAR (SAIFI) 2.0651
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.

CIRCUIT #: 59

1. SUBSTATION NAME AND NUMBER Sand Gap 03S092
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)
Area South of HWY 421 along Lodge Hall Road
5. TOTAL CIRCUIT LENGTH (MILES) 5.6
6. CUSTOMER COUNT FOR THIS CIRCUIT 78
7.. DATE OF LAST CIRCUIT TRIM (VM) 2018
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Maintenance	27%	35%
Squirrel	21%	25%
Unknown Cause	23%	20%
Wind	28%	20%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 35
10. REPORTING YEAR (SAIDI) 55
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.5568
12. REPORTING YEAR (SAIFI) 0.9103
13. CORRECTIVE ACTION PLAN

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

CIRCUIT #: 60

1. SUBSTATION NAME AND NUMBER Sand Gap 03S092
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Gravel Lick Rd., McKee, KY 40447
3. CIRCUIT NAME AND NUMBER Clover Bottom F2
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
HWY 421, Clover Bottom, Clover Bottom Rd, Asbill Rd
5. TOTAL CIRCUIT LENGTH (MILES) 71.8
6. CUSTOMER COUNT FOR THIS CIRCUIT 642
7.. DATE OF LAST CIRCUIT TRIM (VM) 2020
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird		0.3%
Equipment		8%
Lightning		1%
Maintenance		3%
Scheduled		20%
ROW Crew		2%
Squirrel		0.1%
Thunder Storm		2%
Tree/Limb out of ROW		51%
Unknown Cause		12%
Wind		0.1%
Woodcutter		1%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 178
10. REPORTING YEAR (SAIDI) 166
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.5957
12. REPORTING YEAR (SAIFI) 2.2072
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).

CIRCUIT #: 61

1. SUBSTATION NAME AND NUMBER South Fork 03E012
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)
Notheast toward Eversole, Lerosse and Tallega
5. TOTAL CIRCUIT LENGTH (MILES) 61.4
6. CUSTOMER COUNT FOR THIS CIRCUIT 388
7.. DATE OF LAST CIRCUIT TRIM (VM) 2018
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	0.1%	0.1%
Maintenance	1%	1%
Mudslide	25%	25%
Other Utilities	0.2%	0.1%
Scheduled	0.3%	1%
Squirrel	0.1%	0.2%
Tree/Limb out of ROW	71%	70%
Unknown Cause	2%	2%
Vehicles/Heavy Equipment	0.1%	0.1%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 363
10. REPORTING YEAR (SAIDI) 427
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 2.9873
12. REPORTING YEAR (SAIFI) 3.8763
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).

CIRCUIT #: 62

1. SUBSTATION NAME AND NUMBER South Fork 03E012
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)
Area East of HWY 11 toward Arnett
5. TOTAL CIRCUIT LENGTH (MILES) 49.5
6. CUSTOMER COUNT FOR THIS CIRCUIT 249
7. DATE OF LAST CIRCUIT TRIM (VM) 2020
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Equipment		6%
Ice/Snow		12%
Maintenance		1%
Squirrel		2%
Tree/Limb out of ROW		70%
Unknown Cause		2%
Wind		7%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 907
10. REPORTING YEAR (SAIDI) 871
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 3.2187
12. REPORTING YEAR (SAIFI) 5.0241
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).

CIRCUIT #: 63

1. SUBSTATION NAME AND NUMBER South Fork 03E012
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Griffith Cemetery Rd., Island City, KY 41338
3. CIRCUIT NAME AND NUMBER Walnut Grove F3
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Sturgeon, HWY 1350, HWY 11
5. TOTAL CIRCUIT LENGTH (MILES) 43.7
6. CUSTOMER COUNT FOR THIS CIRCUIT 263
7.. DATE OF LAST CIRCUIT TRIM (VM) 2018
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%
Flood	1%	1%
Ice/Snow	12%	5%
Lightning	1%	2%
Maintenance	1%	4%
Scheduled	4%	3%
Thunder Storm	0.1%	0.1%
Tree/Limb in ROW	19%	21%
Tree/Limb out of ROW	28%	37%
Unknown Cause	0.2%	0.2%
Wind	33%	26%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 378
10. REPORTING YEAR (SAIDI) 630
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 2.9507
12. REPORTING YEAR (SAIFI) 4.8479
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).

CIRCUIT #: 64

1. SUBSTATION NAME AND NUMBER South Fork 03E012
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Griffith Cemetery Rd., Island City, KY 41338
3. CIRCUIT NAME AND NUMBER White Oak F4
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
HWY 2025 and HWY 847 toward Endee and Traveller's Rest
5. TOTAL CIRCUIT LENGTH (MILES) 14.8
6. CUSTOMER COUNT FOR THIS CIRCUIT 58
7.. DATE OF LAST CIRCUIT TRIM (VM) 2017
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Equipment	52%	70%
Maintenance	0.5%	4%
Tree/Limb out of ROW	47%	25%
Unknown Cause	0.2%	0.4%
Woodcutter	1%	1%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 500
10. REPORTING YEAR (SAIDI) 734
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 2.5789
12. REPORTING YEAR (SAIFI) 4.2414
13. CORRECTIVE ACTION PLAN

Equipment issues were located and corrected.

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

CIRCUIT #: 65

1. SUBSTATION NAME AND NUMBER Three Links 03S084
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)
HWY 1955, Cave Springs Rd., HWY 421, Morrill-Kerby Knob Rd.
5. TOTAL CIRCUIT LENGTH (MILES) 51.7
6. CUSTOMER COUNT FOR THIS CIRCUIT 492
7.. DATE OF LAST CIRCUIT TRIM (VM) 2020
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	0.2%	0.4%
Equipment	77%	65%
Lightning	1%	3%
Maintenance	6%	9%
Scheduled	3%	4%
ROW Crew	1%	3%
Squirrel	4%	6%
Tree/Limb in ROW	1%	1%
Tree/Limb out of ROW	3%	3%
Unknown Cause	2%	3%
Woodcutter	2%	3%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 204
10. REPORTING YEAR (SAIDI) 373
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.9754
12. REPORTING YEAR (SAIFI) 2.3902
13. CORRECTIVE ACTION PLAN

Equipment issues were located and corrected.

CIRCUIT #: 66

1. SUBSTATION NAME AND NUMBER Three Links 03S084
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
52 Climax Rd., Mount Vernon, KY 40456
3. CIRCUIT NAME AND NUMBER Red Hill F2
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
HWY 1912, HWY 1955, Cooksburg, Eglon, HWY 1004
5. TOTAL CIRCUIT LENGTH (MILES) 48.7
6. CUSTOMER COUNT FOR THIS CIRCUIT 257
7.. DATE OF LAST CIRCUIT TRIM (VM) 2018
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Equipment	0.3%	0.3%
Lightning	0.2%	0.2%
Maintenance	21%	20%
Scheduled	26%	23%
Squirrel	2%	2%
Tree/Limb out of ROW	49%	52%
Unknown Cause	1%	2%
Wind	0.2%	0.3%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 259
10. REPORTING YEAR (SAIDI) 292
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.9275
12. REPORTING YEAR (SAIFI) 2.249
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).

CIRCUIT #: 67

1. SUBSTATION NAME AND NUMBER Tyner 03E013
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Tyner Tower Rd., Tyner, KY 40486
3. CIRCUIT NAME AND NUMBER Zekes Point F2
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Zekes Point, Maulden, Island City
5. TOTAL CIRCUIT LENGTH (MILES) 36.2
6. CUSTOMER COUNT FOR THIS CIRCUIT 208
7.. DATE OF LAST CIRCUIT TRIM (VM) 2016
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Equipment		20%
Maintenance		6%
Scheduled		1%
Squirrel		1%
Tree/Limb out of ROW		44%
Vehicles/Heavy Equipment		13%
Woodcutter		14%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 161
10. REPORTING YEAR (SAIDI) 143
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.3045
12. REPORTING YEAR (SAIFI) 1.339
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).

CIRCUIT #: 68

1. SUBSTATION NAME AND NUMBER Tyner 03E013

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Tyner Tower Rd., Tyner, KY 40486

3. CIRCUIT NAME AND NUMBER Annville F4

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

HWY 3630 toward Tyner Elem School and Annville

5. TOTAL CIRCUIT LENGTH (MILES) 6.9

6. CUSTOMER COUNT FOR THIS CIRCUIT 67

7.. DATE OF LAST CIRCUIT TRIM (VM) 2016

8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Maintenance	28%	28%
Unknown Cause	72%	72%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 58

10. REPORTING YEAR (SAIDI) 71

11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.7758

12. REPORTING YEAR (SAIFI) 0.8507

13. CORRECTIVE ACTION PLAN

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

CIRCUIT #: 69

1. SUBSTATION NAME AND NUMBER West London 1 03E048
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)
Area along Parker Road West of I-75
5. TOTAL CIRCUIT LENGTH (MILES) 6.9
6. CUSTOMER COUNT FOR THIS CIRCUIT 82
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2020
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Equipment		100%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 69
10. REPORTING YEAR (SAIDI) 34
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.8937
12. REPORTING YEAR (SAIFI) 1
13. CORRECTIVE ACTION PLAN One outage lasting 33 minutes.
Equipment issue was located and corrected.

CIRCUIT #: 70

1. SUBSTATION NAME AND NUMBER West London 2 03E048A
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
436 West Laurel Rd., London, KY 40741
3. CIRCUIT NAME AND NUMBER Sublimity F3
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Southeast toward Sublimity City
5. TOTAL CIRCUIT LENGTH (MILES) 10.6
6. CUSTOMER COUNT FOR THIS CIRCUIT 528
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2016 Scheduled 2021
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird		2%
Equipment		1%
Squirrel		4%
Tree/Limb out of ROW		68%
Unknown Cause		9%
Woodcutter		16%

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 121
10. REPORTING YEAR (SAIDI) 97
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.1334
12. REPORTING YEAR (SAIFI) 1.4659
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).

CIRCUIT #: 71

1. SUBSTATION NAME AND NUMBER West London 2 03E048A
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)
Area along HWY 192 Southwest of London
5. TOTAL CIRCUIT LENGTH (MILES) 21.5
6. CUSTOMER COUNT FOR THIS CIRCUIT 595
7. DATE OF LAST CIRCUIT TRIM (VM) 2020
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

	SAIDI	SAIFI
Animal / Bird	4%	
Bad Connection	5%	
Equipment	8%	
Lightning	40%	
Squirrel	22%	
Tree/Limb in ROW	12%	
Tree/Limb out of ROW	0%	
Unknown Cause	5%	
Vehicles/Heavy Equipment	0.1%	
Wind	5%	

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 42
10. REPORTING YEAR (SAIDI) 44
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 0.4876
12. REPORTING YEAR (SAIFI) 0.4874
13. CORRECTIVE ACTION PLAN

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

INCLUDE CURRENT VEGETATION MANAGEMENT PLAN

Additional page may be attached as needed,

The vegetation management plan is attached.

SECTION 7: UTILITY COMMENTS

Goose Rock substation was removed from service in early 2020.

As a result of Goose Rock substation being retired the number of feeders decreased from the report for 2019.



Jackson Energy Cooperative
Engineering & Operations Department
115 Jackson Energy Lane
McKee, KY 40447
606-364-1000

VEGETATION MANAGEMENT PLAN
GUIDELINES, METHODS
AND PROCEDURES

Revised: August 2020

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Section 1.0 Definitions

- A. "JEC" shall mean Jackson Energy Cooperative.
- B. "Contractor" shall mean the successful Bidder to whom a Contract is awarded.
- C. "Work" shall refer to everything agreed to be done and furnished by the Contractor including all supervision, supplies, labor, transportation and equipment together with all responsibilities and obligations imposed by the Contract Documents.
- D. "Equipment" shall mean the trucks, trailers, tools, saws, and other apparatus which are owned and operated by the Contractor and which are required to be maintained by the Contractor for the performance of the Contract in accordance with the Specifications.
- E. "Specifications" shall mean all specifications pertaining to the Work to be performed.
- F. "Contract" shall mean the fully executed document which binds the interested parties in an agreement to fulfill all terms, conditions, and specifications.
- G. "Invitation for Bids" shall be the means by which JEC solicits bids from Pre-qualified Contractors for Work which JEC may from time to time deem necessary to have performed.
- H. "Install", "Furnish", "Provide", or words of like import shall mean the Contractor shall install, furnish, or provide, and similarly the words "Approved", "Authorized", "Required", "Satisfactory", "Acceptable", or words of like import shall mean, as applicable, approved by, authorized by, required by, satisfactory to, or acceptable to JEC, unless otherwise expressly stated.
- I. "Prequalified Contractor" shall mean a contractor who is determined by JEC to be eligible to bid on the Work, subject to any of JEC's conditions, but such status shall not imply or infer compliance with any of the requirements of the Contract, Specifications or other Contract Documents.
- J. "Tree" shall mean any woody vegetation with a DBH of 4 inches or greater.

- K. "Brush" shall mean any vegetation with a DBH of less than 4 inches.

Section 2.0 Bidder's Qualifications

- 2.1 Bids will be accepted only from well established and qualified licensed contractors, trained and experienced in the clearing of power line rights of way and tree trimming that have been approved by JEC as a Pre-qualified Contractor. No bid will be considered from any Contractor unless they are known to be skilled and were previously engaged in work of a character and scope consistent with these bid specifications.
- 2.2 Bidders must show that their equipment and facilities are sufficient, and their workload so arranged as to meet the schedules called for by the Contract without the use of subcontractors. In order to aid JEC in determining the responsibility of any Bidder, the Bidder shall furnish evidence, satisfactory to JEC, of the Bidder's qualifications, experience and familiarity with work of the character specified and his or her financial ability to properly prosecute the proposed work to completion.
- 2.3 Unless previously approved, each Bidder shall submit to JEC a Contractor's Prequalification Application Form, available at JEC's office, and must be subsequently approved by JEC as a Pre-qualified Contractor in order to receive a formal Invitation to Bid. JEC will only accept bids from Bidders who have been approved by JEC as a Pre-qualified Contractor.

Section 3.0 Instructions to Bidders

- 3.1 Bids that are sent by U.S. Postal Service or private carrier shall be clearly marked "**BID ENVELOPE ENCLOSED**". The bid shall be sealed in a separate envelope and shall have the following information shown on the outside of the envelope:

BID FOR: Power Line Right of Way Clearance and Tree Trimming

BID DUE: 2:00 p.m. October 27th, 2020

OWNER: Jackson Energy Cooperative

BIDDER: _____

Envelope must be addressed and submitted to:

Jackson Energy Cooperative
ATTN: Mr. Jim Ball
115 Jackson Energy Ln.
McKee, Kentucky 40447

Any bid not conforming to these requirements will not be considered.

- 3.2 Before submitting a bid, each Bidder must (a) examine the Contract Documents thoroughly, (b) visit the system to become familiar with local conditions that may in any manner affect cost, progress, or performance of the work, (c) have knowledge of all federal, state and local laws, ordinances, rules and regulations affecting performance of the work, and (d) carefully correlate the Bidder's observations with the requirements of the Contract Documents.
- 3.3 Each bid shall be carefully prepared in accordance with the JEC Specifications referenced in the Contract Documents.
- 3.4 Each bid shall be signed by a representative of the Bidder who is authorized to make contractual obligations for the Bidder and shall give the Bidder's full business address. Bids by partnerships shall be signed with the partnership name followed by the signature and designation of one of the partners or other authorized representatives.
- 3.5 Bids by a corporation shall be signed in the name of the corporation, followed by the signature and designation of the president, secretary, or other person authorized to bind the corporation. The name of all persons signing shall also be typed or printed.
- 3.6 Sealed bids will be opened in private the day the bids are due. Contractors will be notified of any awarded work after Board approval.
- 3.7 JEC reserves the right to reject any and all bids, waive any and all technicalities therein, disregard all nonconforming or conditional bids, and evaluate and award bids on other than a low bid basis. By submission of a bid, Bidder thereby agrees to these stipulations and will not challenge JEC's decisions.
- 3.8 JEC may conduct such investigations as it deems prudent to establish the responsibility, qualifications, and financial ability of the Bidders. JEC's final selection of the best overall bid submitted, as determined solely by JEC, shall be based upon factors such as: financial stability of bidder; personnel experience and training; surveys of current and previous employers and previous work history with JEC; overall quality of equipment and organization; ability to adequately

serve JEC with full coverage, customer responsiveness and complaint processing; employee safety training, safety compliance and procedures, including drug-free workforce initiatives, etc.

- 3.9 If the Contract is awarded, JEC will give the successful Bidder due notice of award after its Board of Directors meeting on or after **December 2, 2020**. Work is expected to commence on this Contract **on or after January 1, 2021**, unless otherwise approved at JEC's option.
- 3.10 JEC may elect during the term of this Contract to award one (1) or more additional contracts for rights of way clearance and tree trimming via alternative contractual arrangements such as hourly rates, unit cutting, zone clearing, or lump sum cost for circuit trimming. Nothing contained herein shall be construed as prohibiting JEC from awarding such additional contracts as it deems necessary for the continued safe operation and maintenance of its electric distribution system.

Section 4.0 Introduction: Guidelines and Evaluation Methods

In order to maintain line clearance for public safety and electrical reliability, Jackson Energy Cooperative regularly undertakes tree pruning and herbicide activities. These activities are required in order to be compliant with NESC, as well as Kentucky Revised Statute, and guidelines promulgated by OSHA. This guide details the methods and guidelines which JEC uses to accomplish that goal.

Goal:

The goal of our right-of-way clearance program is to maintain line clearance for public safety and electric reliability.

Strategy:

Our strategy for clearing and maintaining line clearance is to arrange the entire system in operable units, defined by individual circuits or substations, and to operate line clearance activities on those units in a regular and scheduled manner.

Tactics:

The tactics involved are detailed in the following Guidelines. At the development stage of Jackson Energy's vegetation management plan, circuits were prioritized on the basis of last available date of trimming, and vegetation conditions found by onsite circuit inspections which occur incidentally throughout the year as a part of normal activities to determine circuit condition. Reliability, measured by the number of tree related outages expressed on a per circuit mile basis was further used to identify circuits which should be cleared the soonest, with the highest going first and so on. Circuit outages due to trees are regularly reviewed to

determine if any adjustment of the trimming cycle to address changing conditions on the circuit is warranted. Onsite inspection further allows adjustment of these time frames should extraordinary circumstances warrant such an adjustment. Examples of such circumstances are insect infestation damage (Southern Pine Beetle, etc), heavy forest fire damage which will result in tree losses throughout the circuit, or weather-related instances. The effectiveness of the plan is evaluated by the reduction of the frequency of tree related outages, and the duration of tree related outages on the treated circuit. This is monitored by the contribution of tree related outages to both customer and system average interruption indices (SAIDI, SAIFI, and CAIDI). Reports generated by the dispatch Outage Management System (OMS) identify these circuits and the nature and frequency of outages. These reports are given daily, as well as accumulated monthly and annually to better define units needing attention.

Jackson Energy Cooperative conducts clearing activity in each circuit feeder to one full circuit clearing, encompassing floor, side and shade tree trimming each six years. Circuits and new construction units are then scheduled for chemical treatment to reduce floor vegetation within two years of full circuit clearing.

Section 5.0 General Requirements

- 5.1 Bidders bidding on herbicide treatment work shall be trained and licensed in the handling and use of chemicals and sprays, and shall furnish evidence of the same, for foliage, basal, and tree stump applications. Evidence shall include, without being limited to, the Bidder's Commercial Applicator's License Number certified in Category 6 - Right of Way from the Kentucky Department of Agriculture.
- 5.2 If a Contractor utilizes a Hispanic work force, they shall have a general foreman capable of speaking Spanish. At least one member of every crew, ideally the working foreman shall be capable of speaking English in order to answer any questions a landowner or a representative of JEC might have.
- 5.3 A contract crew shall consist of all necessary personnel and all necessary tools and equipment as outlined in the Contractor's Pre-qualification Application Form, to safely and efficiently complete the work. JEC reserves the right to do any Work covered within this Contract by its own forces, to have such Work performed by other contractors, to cause such Work to be completed by other means, or to defer any Work to a future date.
- 5.4 Since Contractor(s) employees come in contact with JEC customers, they shall be completely dressed in suitable clothing which shall be clean at the beginning of each day. Identification badges or other forms of identification which displays the Company's name, contact information, position, etc. is required and must be shown to the customer upon request.
- 5.5 All motor trucks and other vehicles provided by the Contractor to perform the

Work shall bear the Contractor's number and shall be well marked and identified with company insignia or name designating the vehicles as property of the Contractor.

- 5.6 Contractor shall observe all generally recognized safety rules (including without limitation the provisions of the National Electrical Safety Code and ANSI Z133.1 - 2000 or latest edition thereof), regulations, and methods to prevent injury to all employees and other persons or damage to property of JEC or the public arising from its operations. Contractor shall observe all laws and regulations applicable to its operations including without limitation OSHA requirements, Kentucky Department of Transportation requirements, and Kentucky Department of Agriculture requirements.
- 5.7 Contractor shall secure from JEC information as to the nature of the electric circuits involved in all cases prior to commencement of Work in each area. Contractor acknowledges that JEC's electric circuits are to continue in normal operation during this Work, and Contractor shall provide and use all protective equipment necessary for the protection of its employees and to guard against interfering with the normal operation of these electric circuits. If a line is interrupted or damaged caused by work from this operation the Contractor will be responsible for cost of repairing and restoring that line.
- 5.8 Contractor shall immediately notify JEC of any irregular situations observed on JEC's system, including, without limitation, equipment or facility malfunctions, actual or potential safety problems, loose or sagging guy wires, damaged conductors, leaking transformers, damaged or defective poles, and any other seemingly unusual circumstance encountered by the Contractor.
- 5.9 If, during the term of the Contract, additional hourly crews or workers are needed to perform right of way clearing, tree trimming, chemical applications, JEC will first request such crews or workers from the Contractor then working for JEC. Should the Contractor fail to furnish additional crews or workers upon thirty (30) days written notice, JEC shall have the right to obtain additional crews or workers from other resources.
- 5.10 Contractor shall promote a drug and alcohol-free working environment.
- 5.11 Contractor(s) shall not perform or solicit any type of private tree trimming work on customer's property while actively engaged in performing work for JEC under this contract until all work on the circuit is completed.

Section 6.0 Work

- 6.1 Contractor shall perform all Work to the complete satisfaction of JEC and in accordance with all municipal, county, state and other local laws, ordinances, and

regulations applicable to Work of this character and nature. All Work performed by the Contractor is subject to inspection and approval by JEC. Any Work not meeting the minimums as set forth in these Specifications, or generally accepted line clearance standards, or Work which has been falsely represented in any fashion by Contractor shall be redone by the Contractor at no (zero) cost to JEC. Failure by JEC to inspect Contractor's Work shall in no way relieve the Contractor from any obligations, liabilities, or responsibilities in connection with the Contract.

- 6.2 Contractor agrees to provide adequate notice and if possible, obtain consent, for the necessary work from the property owner or public authorities having ownership or control over each tree to be trimmed or removed and/or all property to be cleared or sprayed. Contractor shall discuss with the property owner the type of work to be performed, identifying any and all trees that need to be trimmed or removed, the disposal of brush, any areas that need to be sprayed, and the proposed route of all vehicles and equipment traveling over the owner's property. When property owners cannot be contacted, door hangers shall be left to inform them that Contractor was present to trim trees. Hangers shall contain information as Company Name, Phone Number, etc. Whenever permission to do any work cannot be obtained, JEC shall be informed of the situation.
- 6.3 Contractor shall certify that complaints of any nature received from property owners or public authorities resulting from this Work will receive immediate attention and that all efforts will be made to effect a prompt adjustment. If any damage is done to the property of others by Contractor's workforce, Contractor shall repair and restore at its sole expense any such property and correct any damage inflicted thereto, all to the complete satisfaction of the owner(s) of the injured property. All complaints, and any action taken by Contractor in connection with such complaints, shall be reported to JEC.
- 6.4 Contractor shall secure all permits and licenses necessary for the Work to be performed and pay all charges and fees required for such permits and licenses.
- 6.5 Contractor(s) shall provide sufficient crews to complete the work in the specified time period. However, JEC expects that after work has begun on specified circuits, the Contractor's operation will progress on a continued basis with necessary staffing levels to complete the required circuit miles by the end of the term of the contract, which is **December 31, 2021**. Crew size, crew structure, crew equipment, and the need for any additional crews under this contract will be at the Contractor's sole discretion. Any work not completed by the specified date must still be completed by the Contractor. The inability to finish the work on time will also be considered and noted before any future bid work is granted to that Contractor.

Section 7.0 Notification/Authorization to Trim or Remove Trees

- 7.1 The Contractor shall provide the property owner(s) with notification of intent to conduct the required right-of-way clearance and cut stump herbicide application work. This contact shall precede any work done on any property. The work will then be scheduled for each crew. Any line clearance work done without proper notification must have specific approval by the authorized Jackson Energy representative. Jackson Energy must have **10 business days** notice requesting notification calls be sent by our automated machine before any contact takes place.
- 7.2 Verbal notification of the property owner for routine line clearance work is sufficient. If the property owner is not home, a notification card may be left on the door. Notification cards shall not be placed in any U.S. mailboxes. Notification cards shall only be used where the owner is likely to be present on site on a regular basis. Absentee owners may be notified by mail or by phone.
- 7.3 In the case of the industrial, municipal, county, state, or large private estate type of properties, the caretakers or other designated individual in the employ of the owners who is responsible for the trees or brush to be cut or trimmed is considered to represent the interest of the owner. Notification of such caretakers or grounds maintenance supervisors is sufficient.
- 7.4 For both bid and T&M crews, the contractor shall maintain a written daily log of all property owner notification and/or refusals by personal contact, letter, phone call, and notification card. The log shall include a record of the date of initial contact, party contacted, address, any agreements entered or understanding reached, and any follow-up conducted. Contractor shall make an attempt to have landowner/member sign log sheet. Contractor shall also keep appropriate maps marked to reflect current **daily** progress for all projects/substation circuits.
- 7.5 If landowner refuses access, Contractor shall notify authorized Jackson Energy representative immediately.

Section 8.0 Right of Way Clearing/Re-clearing Requirements

- 8.1 Work within the boundaries of this project shall include clearing/re-clearing. The work may be performed on both urban/residential and rural sites where a specified or desired right-of-way shall be established, reestablished and maintained. Trimming shall adhere to ANSI A300 guidelines and OSHA Safety regulations: If the crown of a tree or any branches are within the right-of-way boundaries, even though the base of the tree is outside of the right-of-way boundary, this tree will be considered as part of the Bid Project and shall be removed or trimmed to meet the guidelines (i.e. overhang from a tree outside of right of way).
- 8.2 Techniques consistent with the practices of directional, natural, lateral, and drop crotch trimming should be utilized. Drop crotch pruning consists of reducing tops, sides, or individual limbs and avoids cutting back to small suckers. Directional

pruning or trimming shall be used to direct or train future tree growth or sprouting away from the wires. Tree trimming required on coniferous trees (pine, spruce, hemlock, etc.), along the established tree edge shall involve the removal and/or trimming of limbs that are encroaching the right-of-way. Removal of the limbs will be back to the main stem, trunk, and/or to suitable live lateral branch.

- 8.3 The practices of “shearing”, “flat-topping”, “pollarding”, “stubbing”, and “rounding over” shall not be permitted anywhere along Jackson Energy’s lines.
- 8.4 Right of way clearing and tree trimming shall be performed on all primary lines. All tree trimming on right-of-way boundaries shall be ground to sky. Tree removals will be concentrated to trees that may pose a threat to primary lines (i.e. danger trees), trees of a fast-growing species (i.e. maples, and poplars) and trees requested by landowners to be removed within the Row. Trees that are outside of the Row will be trimmed to obtain proper clearance. Contractors are not responsible for tree removals requested by landowners that are outside of the Row unless such trees are hazard trees. Emphasis shall be placed on removing trees in the 4-12-inch range, where approval is granted by the property owner. Trees larger than 4-12 inch shall be trimmed if reasonable clearance can be obtained to avoid contact with primary lines until the next trim cycle, unless otherwise requested by the landowner.
- 8.5 Where trimming only is permitted, the lateral pruning method shall be employed. Clearances following our right of way widths for single and three phase lines shall be obtained wherever possible. Trees where landowners may refuse to allow these clearances shall have clearances that will provide a minimum of ten (10) feet of unobstructed space (any direction) from JEC’s conductors, including the system neutral.
- 8.6 When working on the floor of unmaintained areas any brush less than 3 feet in height will be left and will be sprayed the year after work on this circuit is complete. Any brush higher than 3 feet must be cut during work on that circuit.
- 8.7 As designated by the authorized Jackson Energy representative **fruit bearing trees** that remain within the right-of-way shall be trimmed not removed in accordance to the Jackson Energy right-of-way clearing guidelines unless otherwise notified by the property owner.
- 8.8 Existing right of way consisting of primary lines shall be cleared to meet the clearance standards below. If the existing Right-of-Way is in such condition that the clearances below are already achieved, then no work is needed. In the event that the right-of-way clearance is not sufficient then work will progress in accordance with these specifications. Normal right of way widths are as follows:

- a.) Three-Phase Primary lines - 40 ft.

b.) Single-Phase Primary lines - 30 ft.

- 8.9 Secondary lines and Individual services will not be the responsibility of the Contractor on Circuit bids. Secondary circuits include all right-of-way between the Jackson Energy owned pole with transformer and the final Jackson Energy owned pole. Clearing of secondary services will be the responsibility of the landowner unless a hazardous situation exists that would not allow them to maintain those lines. If such a hazard exists a service man will be dispatched to trim enough to allow swing clearance of the secondary wire. If a landowner requests to remove a tree near a service wire, JEC will temporarily take down the wire while the landowner resolves the removal of the tree in question.
- 8.10 All overhead guy stubs, anchors, and riser poles, shall be cleared of all vines and vegetation to allow reasonable access to that facility for maintenance and serviceability. Generally, this would include the area within 5 feet of the pole or equipment.
- 8.11 Unless otherwise specified by JEC, all removals shall be as close to the ground as the topography and type of soil will allow, with a maximum remaining height of three (3) inches for brush stubs and three (3) inches for tree stumps. Stumps resulting from circuit clearing will **NOT** need to be treated due to spray work scheduled for the following year. Actual product to be used must be approved by Jackson Energy. Applicators must be licensed by the Kentucky Department of Agriculture. The contractor assumes any and all liability that may arise as a result of the misapplication of the cut stump treatment. All communications concerning notifications and refusals of cut stump herbicide applications must be recorded in the written daily log kept by the contractor and referenced to the specific property in question
- 8.12 Mechanical Clearing and Re-Clearing work will be permitted where applicable. After any mechanical operation, if any damages to property exist, the Contractor shall restore the land to the natural contour existing prior to the start of the work (i.e. ruts caused by machinery). This must be accomplished to the satisfaction of Jackson Energy and the landowner.
- 8.13 All work is to be performed under the supervision of the contractor. Work shall be conducted in a manner such that all phases of the clearing and/or reclearing work shall progress concurrently, (i.e., cutting, disposal and final cleanup). Jackson Energy has the sole authority to designate the class of right-of-way. If any recent right-of-way clearing/reclearing is encountered, and it does not conform to these specifications, it must be included in the bid.
- 8.14 Disposal of operation wood residue such as brush, wood, large sections of tree trunks, large limbs, wood chips, and other such products produced or generated by this operation on the JEC system shall not obstruct roads, paths, or waterways. Disposal of said residue shall be the sole responsibility of the Contractor and at

approved locations. All disposal costs shall be included in the cost submitted on the JEC bid. When approved by property owners, logs and brush may be left "wind-rowed" along the outer edges of the right of way. In general, unless otherwise approved by the property owner, the premises of the property owner shall be left as neat as before the Work started.

- 8.15 Disposal of wood from **Urban areas** and or **Yards** will consist of the clean up of all brush and large wood will be cut and stacked. **The Contractor will not be responsible for the removal of large wood.** Cleanup of wood resulting from the removal of a tree will be the responsibility of the landowner. The area will be left in a neat fashion as it was before work was completed unless otherwise instructed by the property owner. Disposal of wood and brush in **Unmaintained Right of Ways** will consist of wind rowing the brush and wood to the outer edge of the right of way.
- 8.16 Members requesting **Timber** of a merchantable size to be left will be cut in lengths of 100 inches unless otherwise specified by the landowner. The timber will be piled on the edge of the right of way and will become the responsibility of the landowner to remove.
- 8.17 Any dead trees or trees deemed to be a hazard even if beyond the right of way, which would strike the line in falling, shall be removed. Contractors are also responsible for any hazardous trees missed upon inspection and will be sent back to remove these hazards. (*Hazard trees may include but not limited to dead or dying trees, trees with visible cankers or rots, severe leaning trees, and trees with severe animal or mechanical damage showing signs of rot*).
- 8.18 Vines on poles, guy wires, and equipment shall be removed and cut off at ground level and the area surrounding the pole and/or equipment.

Section 9.0 Options for Refusals/Reluctance to Yield Right-of-Way

- 9.1 Options to modify right-of-way clearing may be offered to individual landowners or groups of adjacent landowners that object to clearing according to the standards indicated by the Jackson Energy right-of-way program. In providing these options, Jackson Energy seeks to enable individual members to choose methods for right-of-way clearance that best address their concerns while preventing the burden of costs for use of non-standard procedures from being placed upon Jackson Energy members as a whole.

Because of varying site conditions, not all options will be offered in all locations. Options that may be available for a particular site include:

Grinding of stumps:

Stump Grinding will not be used on the JEC system unless authorized by a representative of JEC. If any stump grinding is utilized by JEC the Contractor will be compensated at an hourly rate.

Relocation of lines:

Where consistent with Jackson Energy standards for line maintenance/improvement, rerouting of lines or moving lines underground at the member's expense will be considered. Rerouting must follow Jackson Energy guidelines, and accessibility to the lines must be as good as or better than at the original location. In locations where groups of landowners must agree to rerouting, it is the responsibility of the interested landowners to negotiate agreement with adjacent landowners and obtain necessary easements before rerouting can proceed. If such agreement cannot be obtained within a time frame specified by Jackson Energy, right-of-way clearing will proceed unless other options are negotiated individually with Jackson Energy.

Replacement Tree Voucher:

Subject to agreement with the landowner, Jackson Energy may assume or share reasonable costs for providing a voucher for member to purchase a replacement tree. Trees/shrubs must be replaced with an approved species planted at an appropriate distance from the lines and members are responsible for their care. Jackson Energy reserves the right to limit quantities of replacement tree vouchers and no more than one replacement voucher will be allowed per member/location.

Section 10.0 Use of Chemicals and Sprays

- 10.1 The Contractor shall ensure that the on-site applicator be certified by the Kentucky Department of Agriculture, Division of Pesticides. Only certified applicator(s) may apply herbicide on Jackson Energy right-of-way. Copies of applicators licenses shall be given to Jackson Energy prior to starting any projects.
- 10.2 All herbicides used by the contractor shall be approved by Jackson Energy and used in accordance with the manufacturer's specifications on the label. Herbicides with a National Fire Protection Association (NFPA) health rating of 3 or greater shall not be used on Jackson Energy's system unless specifically approved by Jackson Energy. Contractor shall be responsible for purchasing, storing, and furnishing chemicals to its crews.
- 10.3 There will be no herbicide application on National Forest or other State or Federally owned lands unless authorized with proper permits and authorization from the proper manager of those lands.

- 10.4 All herbicide treatment crews shall have the ability to perform foliar and basal chemical treatment where applicable. All grasses, ferns, herbaceous plants, annual weeds, and annual plants, and those compatible non-woody species shall not be treated unless directed to do so by the authorized representative.
- 10.5 Treatment Around Poles and Guy Wire Attachments - Cut off all vines ascending all poles and guy wires at the height of reach. Treat with herbicides all vines below cutting and other vegetation, which may interfere with Jackson Energy's facilities from all poles and guy wires. In the case of kudzu vines, Jackson Energy must be notified within 2 days of the existence of this condition, in order for us to place kudzu guards the pole and guide wires.
- 10.6 Herbicide treatment of right of way may be done at various locations using suitable herbicides to control vegetation particular to that location. Detailed records of the applicator's name, property owner permission, date, location, amount and type of herbicide used shall be kept and copies furnished to JEC on a routine basis or upon completion of the job. Prior to commencement of any Work involving the application of chemicals, the Contractor shall thoroughly familiarize and inform himself of all local conditions and other factors which could or might affect herbicide treatment.
- 10.7 Unless otherwise specified by JEC, the Contractor shall mix and apply the herbicides in accordance with the recommendations of the manufacturer's label and the following general specifications:
- (a) For Foliage Application: This method shall be used only on brush during the active plant growth period, generally between May 1 and September 1. Herbicide mixture shall be applied to completely wet the entire leaf, stem and trunk surface of each plant.
 - (b) For Basal Application: This method shall be used on brush of any size at any season of the year. Herbicide mixture shall be applied to completely wet the entire surface of the stem or trunk from the root-crown up the stem eighteen (18) inches, with emphasis on completely wetting the root-crown.
 - (c) For Stump Application: This method shall be used on all new stumps at any season of the year. Stumps shall be treated as soon as practical, but always on the same day that the cutting is performed. Herbicide mixture shall be applied in sufficient volume to completely wet the sapwood, the area around the outer edge of stump.
- 10.8 Contractor shall not be obligated to treat any portion of a line where damages to crops, orchards, or ornamental plants may result from chemical drift.
- 10.9 JEC will have the right to specify when and where herbicide application and/or herbicide treatment will be used in rural areas or otherwise.
- 10.10 Contractor's use of herbicides in connection with the Work shall be in strict compliance with all federal and state laws, rules and regulations which from time

to time govern the use of herbicides. By undertaking to perform any part of the Work in which chemicals are used, the Contractor certifies that Contractor is familiar with, has complied with, and at all times will comply with all requirements (including but not limited to those relating to training and the giving and posting of all required notices) under all of the foregoing laws, rules and regulations and further, the Contractor shall indemnify and hold harmless Jackson Energy and its directors, officers, employees and agents from and against any liability, claim, demand, cause of action of every kind and description, damage, losses and expenses, including attorney's fees through appeals, arising or resulting from the Contractor's non-compliance with or violation of any of the foregoing laws, rules or regulations.

- 10.11 Chemical spills shall be immediately cleaned-up in a manner consistent with label restrictions, Federal and State regulations, and acceptable environmental procedures mandated by law. Any and all notifications to proper authorities in connection with such spills shall be made by the Contractor. Each crew responsible for herbicide applications shall be supplied with a suitable spill response kit for cleaning-up and neutralizing spills of chemicals, all at the sole expense of the Contractor. Contractor shall insure that its employees are trained in the proper techniques for spill response and are supplied with the necessary personal protective equipment required to perform spill mitigation duties.
- 10.12 Contractor shall at all times be solely responsible for the continuous safeguarding of its workforce, including compliance with all applicable Federal, State, and local laws, together with its responsibilities for training its employees in the proper methods and use of personal protective equipment required for handling herbicides used in connection with this Work.

Section 11.0 Safety to Employees and the Public

- 11.1 The contractor shall obtain full information from Jackson Energy as to the voltage of its circuits before starting the various parts of the work.
- 11.2 The Contractor shall at all times conduct the work in a manner as to safeguard the public from injury to persons or property, and shall comply with the regulations set forth in OSHA 1910.269, OSHA 1910.331, OSHA 1910.266 Logging Standard and ANSI Z133.1 – 1994. All provisions of Jackson Energy safety policy, as detailed in the Jackson Energy Safety Manual, further apply to all contractors on Jackson Energy.
- 11.3 The contractor shall use all necessary protection for its employees and to guard against interference with the normal operation of the circuits. If, in the judgment of the Contractor's General Foreman/Supervisor, it is hazardous to trim or remove trees with the circuits energized, the authorized Jackson Energy representative(s) shall be contacted. If deemed appropriate, the necessary protection or de-

energizing the circuits will be provided by Jackson Energy to ensure the safe removal of the affected tree parts.

- 11.4 Should the Contractor knock down or come in contact with Jackson Energy's conductors, Jackson Energy's main office must be notified immediately. The following telephone number shall be used: 1-606-364-1236, directing the call to "Dispatch".
- 11.5 When applying herbicides, the contractor shall at all times take all reasonable precautions for the safety of employees on the work and of the public by utilizing safety equipment and methods in accordance with the manufacturer's specifications on the herbicide label. Contractor shall comply with all applicable provisions of Federal, State, and local laws specifically including 302 KAR Chapters 27, 28 and 29 relating to the use and application of herbicides. Contractor will furnish copies of any required licenses, certifications or permits to Jackson Energy upon request.

Section 12.0 Work Assignments

- 12.1 The Contractor shall advise JEC on a daily basis as to the location of all crews, any and all crew movements throughout the day, the progress of the Work assigned, and any problems or unusual occurrences. JEC will provide the Contractor with necessary copies of JEC's system maps to aid in routing crews throughout our service area.
- 12.2 Contractor shall make available its crews for emergency work as determined by JEC, day or night, weekends, holidays, or during any natural disasters such as ice or snowstorms, tornadoes and other strong storms, etc. Contractor shall furnish an emergency work price list to JEC along with their bid. Contractor shall furnish JEC the name and telephone number of the person to contact for emergency crews. Contractor may be asked to assign additional crews to JEC's system if the emergency is severe or of long duration.
- 12.3 Contractor shall submit to JEC a progress report at the end of each week containing the following information:
 - (a) Each crew's work location and the progress report for each crew
 - (b) The areas sprayed and/or bush-hogged
 - (c) The quantity and type of each unit cut by each crew
- 12.4 Reasonable working hours shall be utilized for lump sum cost for circuit work. Contractor shall be free to determine working days and hours to suit his needs with the following exceptions. There shall be no work on Saturday or Sunday and on JEC designated holidays without approval by a designated JEC representative. In general, the normal workweek for lump sum work should consist of forty (40) productive hours between 7:00 a.m. and 6:00 p.m., Monday through Friday, unless

otherwise approved by JEC. The workday shall begin at the designated assembly location and end at the work site.

- 12.5 Jackson Energy properties will not be made available for the Contractor for crew starting points or for storing/garaging tools or equipment, unless authorized by the Jackson Energy representative.
- 12.6 JEC shall not be charged for time spent on maintenance of equipment, including without limitation fueling of vehicles, oil or antifreeze changes, changing and/or sharpening of chipper blades, and other similar maintenance and repair work. JEC will not render payment for equipment that is incapable of fully performing its intended function. Minor mechanical repairs such as sharpening and adjusting chain saws shall be permitted on JEC time.

Section 13.0 Supervision of Work and Workmanship

- 13.1 Contractor shall supervise and direct the Work, using the Contractor's best skill and attention. The Contractor shall be solely responsible for and have control over construction means, methods, techniques, and procedures.
- 13.2 **Contractor is an independent contractor and neither Contractor nor any of its employees shall be deemed to be agents or employees of JEC.**
- 13.3 The Contractor shall give prior notification of work start-up and when adding or changing crew. Complete the necessary reporting forms as needed. All reports, logs, timesheets, and paperwork shall be accurate, neat, and complete. Exaggerated, padded, or incorrect work report entries may result in the dismissal of the crew foreman and/or general foreman/supervisor. The crew foreman and/or supervisor shall maintain an up-to-date log of all property owner notification and/or refusals.
- 13.4 Contractor shall provide and maintain continually on the site of the Work during its progress and until its completion, adequate and competent supervision of all operations for and in connection with the Work being performed under this Contract, either personally or by a duly authorized representative. The General Foreman or other representative of the Contractor, who has charge of the Work thereof, shall be fully authorized to act for the Contractor and to receive whatever orders as may be given for the proper execution of the Work or notices in connection therewith.
- 13.5 Contractor shall employ only workers who are competent to perform the Work assigned to them and who are adequately trained and experienced in performing first-class Work of the character and magnitude required by this Contract and expected of reputable Contractor's performing work similar to the Work necessary under this Contract.

- 13.6 JEC will periodically review and evaluate crew performance based upon factors such as, but not limited to, quality of work, quantity of work, clearances obtained, safety awareness and public relations efforts.
- 13.7 Contractor shall be required to attend regular progress meetings with JEC to discuss the Work of this Contract, review crew evaluations, receive information as to future work locations for planning purposes and discuss any problems in prosecuting the Work under this Contract.

Section 14.0 Contractor Caused Outages

- 14.1 Anytime the Contractor feels that work can not be completed safely or an outage due to work associated with the clearing of the right of way is unavoidable he should ask for an outage to be scheduled by our line crews. We will have no problem with scheduling an outage to make the job safe.
- 14.2 Should the Contractor knock down or come in contact with Jackson Energy's conductors, Jackson Energy's main office must be notified immediately. The following telephone number shall be used: 1-606-364-1236, directing the call to "dispatch".
- 14.3 There will be a minimum charge of \$200 dollars for each Contractor caused outage for restoration costs. If the amount of restoration costs exceeds \$200 then the total amount for restoration will be charged to the Contractor.
- 14.4 If a Contract Crew causes an outage, that entire crew will not be allowed to work on the JEC system for 1 business day following the day of the outage. This will allow the contractor and JEC sufficient time to investigate and take any necessary actions to ensure future outages will be avoided.

Section 15.0 Payment for Work

- 15.1 The Contractor will be compensated for trimming at the fixed rate(s) designated in the bid. The Owner shall make a partial payment of 25% to the Contractor once one fourth of the Project has been inspected and approved. Another payment of 25% will be paid when one half of the project is completed and another 25% at three fourths of completion. The final payment will only be made at the end of the Project and only after the work has been inspected and approved. Invoices should be sent to the attention of: **Mr. Eric Glovier 115 Jackson Energy Lane McKee, Kentucky, 40447.**
- 15.2 Contractor(s) shall keep accurate records of its compensation at its principal office which will be available for audit by JEC during regular office hours.

- 15.3 The Contractor will be required to utilize daily time sheets provided by or approved by Jackson Energy. Timesheets shall be accurate, neat and complete, and shall detail time charged to individual work and service orders.
- 15.4 In order to receive payment for any **Combination Lump Sum/Unit Price** bid work the Contractor must supply with invoices a weekly detailed list of units cleared or trimmed and the location of these units. Inspection for accuracy shall be done by a representative of JEC before payment.

Section 16.0 Hazard Tree Mitigation Project

- 16.1 Jackson Energy has started a Hazard Tree Mitigation Project to address the issue of trees falling from outside of the right of way and still contacting power lines. For this project Jackson Energy is inspecting circuits that have a high number of outages from outside of the right of way. Trees to be marked during this inspection include all hazard trees that will strike the line if it falls whether inside or outside of the right of way. Hazard trees will include and tree that is dead, dying, decaying, or has severe lean towards any primary line. Once identified any hazard trees that are found will be removed by our contract right of way crews by bid work or hourly work.

Section 17.0 Indemnification

To the maximum extent permitted by law, Contractor shall defend, indemnify, and hold harmless Owner and Owner's directors, officers, and employees from all claims, causes of action, losses, liabilities, and expenses (including reasonable attorney's fees) for personal loss, injury, or death to persons (including but not limited to Contractor's employees) and loss, damage to or destruction of Owner's property or the property of any other person or entity (including but not limited to Contractor's property) in any manner arising out of or connected with the Contract, or the materials or equipment supplied or services performed by Contractor, its subcontractors and suppliers of any tier. But nothing herein shall be construed as making Contractor liable for any injury, death, loss, damage, or destruction caused by the sole negligence of Owner.