

APR 18 2018

PUBLIC SERVICE
COMMISSION

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 1: CONTACT INFORMATION

UTILITY NAME	Clark Energy Cooperative
REPORT PREPARED BY	Phillip Blythe
E-MAIL ADDRESS OF PREPARER	<u>pblythe@clarkenergy.com</u>
PHONE NUMBER OF PREPARER	859-901-9203

SECTION 2: REPORTING YEAR

CALENDAR YEAR OF REPORT	<u>2017</u>
-------------------------	-------------

SECTION 3: MAJOR EVENT DAYS (MED)

T_{MED}	<u>11.14</u>
FIRST DATE USED TO DETERMINE T_{MED}	<u>1/1/2012</u>
LAST DATE USED TO DETERMINE T_{MED}	<u>12/31/2016</u>
NUMBER OF MED IN REPORT YEAR	<u>3</u>

NOTE: Per IEEE 1366 T_{MED} should be calculated using the daily SAIDI values for the five prior years. If five years of data are not available, then utilities should use what is available until five years are accumulated.

SECTION 4: SYSTEM RELIABILITY INFORMATION AND RESULTS

System-wide Information

TOTAL CUSTOMERS	<u>26,264</u>	TOTAL CIRCUITS	<u>75</u>
-----------------	---------------	----------------	-----------

Excluding MED

5 YEAR AVERAGE		REPORTING YEAR	
SAIDI	<u>153.73</u>	SAIDI	<u>122.666</u>
SAIFI	<u>1.6</u>	SAIFI	<u>1.242</u>

Including MED

5 YEAR AVERAGE		REPORTING YEAR	
SAIDI	<u>332.68</u>	SAIDI	<u>154.34</u>
SAIFI	<u>2.03</u>	SAIFI	<u>1.389</u>

Notes:

- 1) All duration indices (SAIDI) 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, and T_{MED}

KENTUCKY PUBLIC SERVICE COMMISSION

SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1: Becknerville 1

1. SUBSTATION NAME AND NUMBER Becknerville N92
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Clark County- Combs Ferry Road- Winchester
3. CIRCUIT NAME AND NUMBER Becknerville 1- Combs Ferry
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Combs Ferry Road
5. TOTAL CIRCUIT LENGTH (MILES) 7.633
6. CUSTOMER COUNT FOR THIS CIRCUIT 25
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2014
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS
NUMBERS REPRESENTED BY EACH CAUSE See Attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 5.34
10. REPORTING YEAR (SAIDI) 5.48
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) .07
12. REPORTING YEAR (SAIFI) .08
13. CORRECTIVE ACTION PLAN- no plan of action at this time

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

Substation	ElementName	
BECKNERVILLE	Becknerville1	
Planned	Cust	CustMin
1	1	35

%
25.93%

Unknown	Cust	CustMin
1	1	100

74.07%

135 100%

SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1: Becknerville 2

1. SUBSTATION NAME AND NUMBER Becknerville N92
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Clark County- Combs Ferry Road- Winchester
3. CIRCUIT NAME AND NUMBER Becknerville 2- Waterworks Road area
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Combs Ferry Road
5. TOTAL CIRCUIT LENGTH (MILES) 23.843
6. CUSTOMER COUNT FOR THIS CIRCUIT 141
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2014
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS
NUMBERS REPRESENTED BY EACH CAUSE See Attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 40.87
10. REPORTING YEAR (SAIDI) 64.61
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) .29
12. REPORTING YEAR (SAIFI) .65
13. CORRECTIVE ACTION PLAN- Experienced one incident with a public caused outage that increased the SAIDI and SAIF
No action plan at this time

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

Substation	ElementName
------------	-------------

BECKNERVILLE	Becknerville2
--------------	---------------

%

Planned	Cust	CustMin
---------	------	---------

1	3	519
---	---	-----

5.71%

Maintenance	Cust	CustMin
-------------	------	---------

1	3	327
---	---	-----

3.60%

Weather	Cust	CustMin
---------	------	---------

4	7	1297
---	---	------

14.26%

Animal	Cust	CustMin
--------	------	---------

1	6	378
---	---	-----

4.16%

Public	Cust	CustMin
--------	------	---------

1	63	5796
---	----	------

63.73%

Unknown	Cust	CustMin
---------	------	---------

2	9	777
---	---	-----

8.54%

9094

100%

SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1: Blevins Valley 1

1. SUBSTATION NAME AND NUMBER Blevins Valley E100
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Bath County- Blevins Valley Road- Preston Ky
3. CIRCUIT NAME AND NUMBER Blevins Valley 1- Preston
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Preston, Kendall Springs, Blevins Valley
5. TOTAL CIRCUIT LENGTH (MILES) 37.155
6. CUSTOMER COUNT FOR THIS CIRCUIT 415
- 7.. DATE OF LAST CIRCUIT TRIM (VM) Fall 2017
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS
NUMBERS REPRESENTED BY EACH CAUSE See Attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 75.86
10. REPORTING YEAR (SAIDI) 131.45
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) .88
12. REPORTING YEAR (SAIFI) .57
13. CORRECTIVE ACTION PLAN- No corrective action plan at this time

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

Substation	ElementName
------------	-------------

BLEVINS VALLEY	BLEVAL1
----------------	---------

%

Planned	Cust	CustMin
---------	------	---------

5	20	2307
---	----	------

4.23%

Equipment	Cust	CustMin
-----------	------	---------

4	94	11289
---	----	-------

20.70%

Maintenance	Cust	CustMin
-------------	------	---------

3	28	3829
---	----	------

7.02%

Weather	Cust	CustMin
---------	------	---------

1	2	218
---	---	-----

0.40%

Public	Cust	CustMin
--------	------	---------

1	91	36673
---	----	-------

67.23%

Other	Cust	CustMin
-------	------	---------

1	1	117
---	---	-----

0.21%

Unknown	Cust	CustMin
---------	------	---------

2	2	115
---	---	-----

0.21%

54548 100%

SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1: Bowen 1

1. SUBSTATION NAME AND NUMBER Bowen -E58
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Powell County- Campton Road- Stanton KY
3. CIRCUIT NAME AND NUMBER Bowen 1- Natural Bridge
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Campton Road
5. TOTAL CIRCUIT LENGTH (MILES) 47.428
6. CUSTOMER COUNT FOR THIS CIRCUIT 408
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2016
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS
NUMBERS REPRESENTED BY EACH CAUSE See Attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 235.90
10. REPORTING YEAR (SAIDI) 228.10
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.38
12. REPORTING YEAR (SAIFI) 1.81
13. CORRECTIVE ACTION PLAN- corrective action plan not required

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

Substation	ElementName
------------	-------------

BOWEN	BOWEN1
-------	--------

Planned	Cust	CustMin	%
3	36	4647	4.99%

Equipment	Cust	CustMin	%
1	8	240	0.26%

Maintenance	Cust	CustMin	%
17	678	86967	93.41%

Weather	Cust	CustMin	%
3	12	833	0.89%

Unknown	Cust	CustMin	%
2	5	418	0.45%

93105	100%
-------	------

SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1: Cave Run 2

1. SUBSTATION NAME AND NUMBER Cave Run- E52
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Rowan County-HWY 801- Morehead KY
3. CIRCUIT NAME AND NUMBER Cave Run 2- Fish Hatchery, Twin Knobs
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Cave Run Lake- HWY 801
5. TOTAL CIRCUIT LENGTH (MILES) 20.392
6. CUSTOMER COUNT FOR THIS CIRCUIT 242
- 7.. DATE OF LAST CIRCUIT TRIM (VM) January 2018
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS
NUMBERS REPRESENTED BY EACH CAUSE See Attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 131.47
10. REPORTING YEAR (SAIDI) 163.40
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.38
12. REPORTING YEAR (SAIFI) 1.39
13. CORRECTIVE ACTION PLAN- Right of Way has been cut in 2018 in an effort to increase reliability

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

Substation	ElementName
------------	-------------

CAVE RUN	CAVE RUN 2
----------	------------

Equipment	Cust	CustMin	%
4	69	12271	32.13%

Maintenance	Cust	CustMin	
3	245	25036	65.56%

Weather	Cust	CustMin	
2	11	879	2.30%
		38186	100%

SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1: Clay City 1

1. SUBSTATION NAME AND NUMBER Clay City -E71
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Powell County- Ships Branch- Clay City KY
3. CIRCUIT NAME AND NUMBER Clay City 1- Virden Ridge
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)- Winchester Road- Virden
5. TOTAL CIRCUIT LENGTH (MILES) 42.447
6. CUSTOMER COUNT FOR THIS CIRCUIT 673
- 7.. DATE OF LAST CIRCUIT TRIM (VM) Herbicide 2012
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS
NUMBERS REPRESENTED BY EACH CAUSE See Attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 54.51
10. REPORTING YEAR (SAIDI) 82.06
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) .53
12. REPORTING YEAR (SAIFI) .81
13. CORRECTIVE ACTION PLAN- no corrective action plan required

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

Substation	ElementName
------------	-------------

CLAY CITY	CLAYCTY1	
-----------	----------	--

Planned	Cust	CustMin	%
---------	------	---------	---

8	56	4631	8.39%
---	----	------	-------

Equipment	Cust	CustMin
-----------	------	---------

2	3	448	0.81%
---	---	-----	-------

Maintenance	Cust	CustMin
-------------	------	---------

11	370	37317	67.62%
----	-----	-------	--------

Weather	Cust	CustMin
---------	------	---------

2	5	499	0.90%
---	---	-----	-------

Animal	Cust	CustMin
--------	------	---------

2	37	7371	13.36%
---	----	------	--------

Public	Cust	CustMin
--------	------	---------

1	3	264	0.48%
---	---	-----	-------

Unknown	Cust	CustMin
---------	------	---------

5	72	4659	8.44%
---	----	------	-------

55189 100%

SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1: Clay City 4

1. SUBSTATION NAME AND NUMBER Clay City - E71
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Powell County- Ships Branch- Clay City KY
3. CIRCUIT NAME AND NUMBER Clay City 4- Black Creek, Bottoms(Beech Fork)
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Black Creek
5. TOTAL CIRCUIT LENGTH (MILES) 36.022
6. CUSTOMER COUNT FOR THIS CIRCUIT 555
- 7.. DATE OF LAST CIRCUIT TRIM (VM) Herbicide 2012
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS
NUMBERS REPRESENTED BY EACH CAUSE See Attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 214.56
10. REPORTING YEAR (SAIDI) 217.16
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) .1.35
12. REPORTING YEAR (SAIFI) 1.65
13. CORRECTIVE ACTION PLAN- The majority of the outages were weather related-
no corrective action plan required

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

Substation	ElementName
------------	-------------

CLAY CITY	CLAYCTY4	
-----------	----------	--

Planned	Cust	CustMin	%
4	81	3861	3.20%

Equipment	Cust	CustMin	%
5	163	13383	11.11%

Maintenance	Cust	CustMin	%
9	645	102151	84.79%

Weather	Cust	CustMin	%
2	5	306	0.25%

Animal	Cust	CustMin	%
1	10	330	0.27%

Public	Cust	CustMin	%
1	2	78	0.06%

Unknown	Cust	CustMin	%
1	8	360	0.30%

120469 100%

SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1: Frenchburg 1

1. SUBSTATION NAME AND NUMBER Frenchburg-E19
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Menifee County- HWY 36- Frenchburg KY
3. CIRCUIT NAME AND NUMBER Frenchburg 1- HWY 36/HWY 211
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) HWY 36 North
5. TOTAL CIRCUIT LENGTH (MILES) 44.8
6. CUSTOMER COUNT FOR THIS CIRCUIT 437
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2017
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS
NUMBERS REPRESENTED BY EACH CAUSE See Attached
- 9: CIRCUIT 5 YEAR AVERAGE (SAIDI) 173.68
10. REPORTING YEAR (SAIDI) 211.35
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.72
12. REPORTING YEAR (SAIFI) 1.37
13. CORRECTIVE ACTION PLAN-Current Reconductor project to be complete 2018

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

Substation	ElementName
------------	-------------

FRENCHBURG	FRNBURG1
------------	----------

Planned	Cust	CustMin	%
5	32	2600	2.81%
Equipment	Cust	CustMin	
3	5	492	0.53%
Maintenance	Cust	CustMin	
14	479	79331	85.85%
Weather	Cust	CustMin	
2	2	352	0.38%
Public	Cust	CustMin	
1	5	105	0.11%
Unknown	Cust	CustMin	
3	77	9524	10.31%
		92404	100%

SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1: Hardwicks Creek 2

1. SUBSTATION NAME AND NUMBER Hardwicks Creek -E107
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Powell County- Spout Springs Road- Clay City KY
3. CIRCUIT NAME AND NUMBER Hardwicks Creek 2- Hardwicks Creek to Clay City
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) HWY 1057 North to Clay City
5. TOTAL CIRCUIT LENGTH (MILES) 5.53
6. CUSTOMER COUNT FOR THIS CIRCUIT 41
- 7.. DATE OF LAST CIRCUIT TRIM (VM)- Herbicide 2013
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS
NUMBERS REPRESENTED BY EACH CAUSE See Attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 21.40
10. REPORTING YEAR (SAIDI) 44.29
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) .25
12. REPORTING YEAR (SAIFI) .24
13. CORRECTIVE ACTION PLAN- the two outages on this circuit were maintenance related-
no corrective action required

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

Substation	ElementName
------------	-------------

HARDWICKS CREEK	HARDWICKS2
-----------------	------------

Maintenance	Cust	CustMin	%
2	10	1810	100%

SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1: Hardwicks Creek 3

1. SUBSTATION NAME AND NUMBER Hardwicks Creek -E107
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Powell County- Spouts Springs- Clay City KY
3. CIRCUIT NAME AND NUMBER Hardwicks Creek 3- Happy Top Road
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) - Clay City - Happy Top
5. TOTAL CIRCUIT LENGTH (MILES) 12.061
6. CUSTOMER COUNT FOR THIS CIRCUIT 140
- 7.. DATE OF LAST CIRCUIT TRIM (VM) - Herbicide 2013
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS
NUMBERS REPRESENTED BY EACH CAUSE See Attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 58.55
10. REPORTING YEAR (SAIDI) 135.98
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) .55
12. REPORTING YEAR (SAIFI) 2.22
13. CORRECTIVE ACTION PLAN- No corrective action plan required

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

Substation	ElementName
------------	-------------

HARDWICKS CREEK	HARDWICKS3
-----------------	------------

Maintenance	Cust	CustMin	%
2	139	10040	52.89%
Weather	Cust	CustMin	
1	8	96	0.51%
Animal	Cust	CustMin	
2	18	1508	7.94%
Unknown	Cust	CustMin	
2	145	7340	38.66%
		18984	100%

SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1: Hinkston 1

1. SUBSTATION NAME AND NUMBER Hinkston -E66
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Montgomery- Hinkston Pike- Mt. Sterling KY
3. CIRCUIT NAME AND NUMBER Hinkston 1- Langley-Fayette Metal
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Industrial Park
5. TOTAL CIRCUIT LENGTH (MILES) 1.893
6. CUSTOMER COUNT FOR THIS CIRCUIT 27
- 7.. DATE OF LAST CIRCUIT TRIM (VM) - 2017
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS
NUMBERS REPRESENTED BY EACH CAUSE See Attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 3.35
10. REPORTING YEAR (SAIDI) 15.67
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) .02
12. REPORTING YEAR (SAIFI) .11
13. CORRECTIVE ACTION PLAN- no corrective action plan required

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

Substation	ElementName
------------	-------------

HINKSTON	Hinkston1
----------	-----------

Maintenance	Cust	CustMin	%
-------------	------	---------	---

1	1	252	59.15%
---	---	-----	--------

Weather	Cust	CustMin
---------	------	---------

1	2	174	40.85%
---	---	-----	--------

426	100%
-----	------

SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1: Hope 2

1. SUBSTATION NAME AND NUMBER Hope - E2
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Bath County- Montgomery County -
Hope Means Road- Mt. Sterling
3. CIRCUIT NAME AND NUMBER Hope 2- Hope Means Road
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Hope Means Road
5. TOTAL CIRCUIT LENGTH (MILES) 31.103
6. CUSTOMER COUNT FOR THIS CIRCUIT 313
7. DATE OF LAST CIRCUIT TRIM (VM) 2016
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS
NUMBERS REPRESENTED BY EACH CAUSE See Attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 65.97
10. REPORTING YEAR (SAIDI) 99.14
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) .91
12. REPORTING YEAR (SAIFI) 1.39
13. CORRECTIVE ACTION PLAN- Investigating

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

Substation	ElementName
------------	-------------

HOPE	HOPE2
------	-------

Planned	Cust	CustMin	%
---------	------	---------	---

3	5	575	1.85%
---	---	-----	-------

Maintenance	Cust	CustMin
-------------	------	---------

3	365	26548	85.53%
---	-----	-------	--------

Weather	Cust	CustMin
---------	------	---------

2	2	225	0.72%
---	---	-----	-------

Animal	Cust	CustMin
--------	------	---------

2	11	703	2.26%
---	----	-----	-------

Public	Cust	CustMin
--------	------	---------

2	51	2987	9.62%
---	----	------	-------

		31038	100%
--	--	-------	------

SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1: Hunt 2

1. SUBSTATION NAME AND NUMBER Hunt -N1
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Clark County- Jackson Ferry Road- Winchester KY
3. CIRCUIT NAME AND NUMBER Hunt 2- Red River
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) - Winchester- Red River
5. TOTAL CIRCUIT LENGTH (MILES) 27.276
6. CUSTOMER COUNT FOR THIS CIRCUIT 134
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2011
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS
NUMBERS REPRESENTED BY EACH CAUSE See Attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 169.82
10. REPORTING YEAR (SAIDI) 177.66
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) .82
12. REPORTING YEAR (SAIFI) .70
13. CORRECTIVE ACTION PLAN- Investigating

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

Substation	ElementName
------------	-------------

HUNT	HUNT2
------	-------

Planned	Cust	CustMin	%
---------	------	---------	---

1	3	267	1.13%
---	---	-----	-------

Maintenance	Cust	CustMin
-------------	------	---------

3	86	22933	96.65%
---	----	-------	--------

Weather	Cust	CustMin
---------	------	---------

2	4	326	1.37%
---	---	-----	-------

Public	Cust	CustMin
--------	------	---------

1	1	203	0.86%
---	---	-----	-------

23729	100%
-------	------

SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1: Mariba 4

1. SUBSTATION NAME AND NUMBER Mariba -E85
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Menifee County- Kendrick Ridge- Frenchburg KY
3. CIRCUIT NAME AND NUMBER Mariba 4- Kendrick Ridge (single phase)
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Kendrick Ridge
5. TOTAL CIRCUIT LENGTH (MILES) 10.549
6. CUSTOMER COUNT FOR THIS CIRCUIT 105
- 7.. DATE OF LAST CIRCUIT TRIM (VM) - 2013
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS
NUMBERS REPRESENTED BY EACH CAUSE See Attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 44.84
10. REPORTING YEAR (SAIDI) 24.06
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) .49
12. REPORTING YEAR (SAIFI) .64
13. CORRECTIVE ACTION PLAN- planned outages caused the increased SAIFI number. No corrective action

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

Substation	ElementName
------------	-------------

MARIBA	MARIBA4
--------	---------

Planned	Cust	CustMin	%	
---------	------	---------	---	--

2	67	2523	100%	
---	----	------	------	--

SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1: Miller Hunt 1

1. SUBSTATION NAME AND NUMBER Miller Hunt- N71
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Clark County- Miller Hunt Road- Winchester KY
3. CIRCUIT NAME AND NUMBER Miller Hunt 1- Miller Hunt Feed
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Miller Hunt, Pilot View
5. TOTAL CIRCUIT LENGTH (MILES) 36.486
6. CUSTOMER COUNT FOR THIS CIRCUIT 317
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2015
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS
NUMBERS REPRESENTED BY EACH CAUSE See Attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 94.11
10. REPORTING YEAR (SAIDI) 79.86
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.02
12. REPORTING YEAR (SAIFI) 1.35
13. CORRECTIVE ACTION PLAN- Motor Vehicle accident caused the increased numbers

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

Substation	ElementName
------------	-------------

MILLER HUNT MILLER HUNT1

Planned	Cust	CustMin	%
---------	------	---------	---

6	48	2303	9.10%
---	----	------	-------

Equipment	Cust	CustMin
-----------	------	---------

2	3	126	0.50%
---	---	-----	-------

Maintenance	Cust	CustMin
-------------	------	---------

1	1	163	0.64%
---	---	-----	-------

Weather	Cust	CustMin
---------	------	---------

10	27	2476	9.78%
----	----	------	-------

Animal	Cust	CustMin
--------	------	---------

6	34	2601	10.28%
---	----	------	--------

Public	Cust	CustMin
--------	------	---------

1	314	17568	69.41%
---	-----	-------	--------

Unknown	Cust	CustMin
---------	------	---------

1	1	73	0.29%
---	---	----	-------

25310 100%

SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1: Miller Hunt 3

1. SUBSTATION NAME AND NUMBER Miller Hunt -N71
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Clark County- Miller Hunt Road- Winchester
3. CIRCUIT NAME AND NUMBER Miller Hunt 3- Office Feed
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) HWY 15, Veterans Memorial Bypass, Irvine Road
5. TOTAL CIRCUIT LENGTH (MILES) 9.633
6. CUSTOMER COUNT FOR THIS CIRCUIT 110
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2015
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS
NUMBERS REPRESENTED BY EACH CAUSE See Attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 80.82
10. REPORTING YEAR (SAIDI) 90.99
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) .57
12. REPORTING YEAR (SAIFI) .99
13. CORRECTIVE ACTION PLAN- no action plan required

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

Substation	ElementName
------------	-------------

MILLER HUNT	MILLER HUNT3
-------------	--------------

Equipment	Cust	CustMin	%
1	1	150	1.50%

Weather	Cust	CustMin	%
1	108	9828	98.50%
		9978	100%

SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1: Reid Village 1

1. SUBSTATION NAME AND NUMBER Reid Village -N64
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Montgomery County- HWY 60- Mt. Sterling KY
3. CIRCUIT NAME AND NUMBER Reid Village 1- Clak County
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) US HWY 60 West
5. TOTAL CIRCUIT LENGTH (MILES) 44.720
6. CUSTOMER COUNT FOR THIS CIRCUIT 396
- 7.. DATE OF LAST CIRCUIT TRIM (VM) Herbicide 2017
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS
NUMBERS REPRESENTED BY EACH CAUSE See Attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 57.71
10. REPORTING YEAR (SAIDI) 150.77
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) .68
12. REPORTING YEAR (SAIFI) 1.36
13. CORRECTIVE ACTION PLAN No plan of action- two car accidents with broken poles that impacted the
reliability on this circuit

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

Substation	ElementName
------------	-------------

REID VILLAGE	RDVILLAGE1
--------------	------------

Planned	Cust	CustMin	%
1	7	301	0.50%
Equipment	Cust	CustMin	
3	17	1672	2.80%
Maintenance	Cust	CustMin	
3	7	1584	2.65%
Weather	Cust	CustMin	
4	16	1211	2.03%
Animal	Cust	CustMin	
3	11	735	1.23%
Public	Cust	CustMin	
2	479	54168	90.78%
		59671	100%

SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1: Reid Village 3

1. SUBSTATION NAME AND NUMBER Reid Village - N64
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Montgomery County- HWY 60- Mt. Sterling KY
3. CIRCUIT NAME AND NUMBER Reid Village 3- Airport (single phase)
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) HWY 60, Mt. Sterling Airport
5. TOTAL CIRCUIT LENGTH (MILES) 6.652
6. CUSTOMER COUNT FOR THIS CIRCUIT 81
7. DATE OF LAST CIRCUIT TRIM (VM) Herbicide 2017
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS
NUMBERS REPRESENTED BY EACH CAUSE See Attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 77.78
10. REPORTING YEAR (SAIDI) 114.63
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) .52
12. REPORTING YEAR (SAIFI) .45
13. CORRECTIVE ACTION PLAN Reconductor of line was completed in 2017 as well as right of way clearing

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

Substation	ElementName
------------	-------------

REID VILLAGE	RDVILLAGE3
--------------	------------

Planned	Cust	CustMin	%
4	32	8799	95.03%
Maintenance	Cust	CustMin	
1	4	460	4.97%
		9259	100%

SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1: Sideview 2

1. SUBSTATION NAME AND NUMBER Sideview - N2
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Clark County- Childs HWY - Winchester
3. CIRCUIT NAME AND NUMBER Sideview 2- Judy Feed
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
5. TOTAL CIRCUIT LENGTH (MILES) 43.231
6. CUSTOMER COUNT FOR THIS CIRCUIT 350
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2013
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS
NUMBERS REPRESENTED BY EACH CAUSE See Attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 249.03
10. REPORTING YEAR (SAIDI) 272.04
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.29
12. REPORTING YEAR (SAIFI) 1.57
13. CORRECTIVE ACTION PLAN- outage numbers increased by 1 equipment failure. No corrective action

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

Substation	ElementName
------------	-------------

SIDEVIEW	SIDEVIEW2
----------	-----------

Planned	Cust	CustMin	%
---------	------	---------	---

1	1	109	0.11%
---	---	-----	-------

Equipment	Cust	CustMin
-----------	------	---------

1	156	38658	40.57%
---	-----	-------	--------

Maintenance	Cust	CustMin
-------------	------	---------

2	3	425	0.45%
---	---	-----	-------

Weather	Cust	CustMin
---------	------	---------

7	369	54626	57.32%
---	-----	-------	--------

Animal	Cust	CustMin
--------	------	---------

4	8	337	0.35%
---	---	-----	-------

Public	Cust	CustMin
--------	------	---------

1	1	223	0.23%
---	---	-----	-------

Other	Cust	CustMin
-------	------	---------

1	3	405	0.42%
---	---	-----	-------

Unknown	Cust	CustMin
---------	------	---------

2	8	514	0.54%
---	---	-----	-------

95297	100%
-------	------

SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1: Stanton 5

1. SUBSTATION NAME AND NUMBER Stanton -E1
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Powell County- Halls Road- Stanton KY
3. CIRCUIT NAME AND NUMBER Stanton 5- Morris Creek
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Morris Creek, Spacer Cable
5. TOTAL CIRCUIT LENGTH (MILES) 39.65
6. CUSTOMER COUNT FOR THIS CIRCUIT 720
- 7.. DATE OF LAST CIRCUIT TRIM (VM) Herbicide 2014
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS
NUMBERS REPRESENTED BY EACH CAUSE See Attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 66.07
10. REPORTING YEAR (SAIDI) 118.80
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) .66
12. REPORTING YEAR (SAIFI) 1.06
13. CORRECTIVE ACTION PLAN- equipment failure and maintenance to repair issues increased
the outage numbers. No corrective action

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

Substation	ElementName
------------	-------------

STANTON	STANTON5
---------	----------

Planned	Cust	CustMin	%
---------	------	---------	---

7	56	2156	2.52%
---	----	------	-------

Equipment	Cust	CustMin
-----------	------	---------

4	576	55123	64.42%
---	-----	-------	--------

Maintenance	Cust	CustMin
-------------	------	---------

4	125	28193	32.95%
---	-----	-------	--------

Animal	Cust	CustMin
--------	------	---------

1	2	24	0.03%
---	---	----	-------

Unknown	Cust	CustMin
---------	------	---------

1	1	68	0.08%
---	---	----	-------

		85564	100%
--	--	-------	------

SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1: Three Forks 1

1. SUBSTATION NAME AND NUMBER Three Forks -S61
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Madison County- Three Forks Road- Richmond KY
3. CIRCUIT NAME AND NUMBER Three Forks 1- Ford Feed
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Bill Eads, Redhouse
5. TOTAL CIRCUIT LENGTH (MILES) 45.688
6. CUSTOMER COUNT FOR THIS CIRCUIT 308
- 7.. DATE OF LAST CIRCUIT TRIM (VM) Herbicide 2012
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS
NUMBERS REPRESENTED BY EACH CAUSE See Attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 129.30
10. REPORTING YEAR (SAIDI) 446.00
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.27
12. REPORTING YEAR (SAIFI) 2.12
13. CORRECTIVE ACTION PLAN- Investigating

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

Substation	ElementName
------------	-------------

THREE FORKS	THRFRKS1
-------------	----------

Planned	Cust	CustMin	%
---------	------	---------	---

25	64	10396	7.56%
----	----	-------	-------

Equipment	Cust	CustMin
-----------	------	---------

4	7	540	0.39%
---	---	-----	-------

Maintenance	Cust	CustMin
-------------	------	---------

5	321	77870	56.60%
---	-----	-------	--------

Weather	Cust	CustMin
---------	------	---------

6	15	1120	0.81%
---	----	------	-------

Animal	Cust	CustMin
--------	------	---------

3	19	1617	1.18%
---	----	------	-------

Unknown	Cust	CustMin
---------	------	---------

4	228	46035	33.46%
---	-----	-------	--------

		137578	100%
--	--	--------	------

SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1: Three Forks 2

1. SUBSTATION NAME AND NUMBER Three Forks - S61
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Madison County- Three Forks Road- Richmond KY
3. CIRCUIT NAME AND NUMBER Three Forks 2- Madison Village
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Madison Village
5. TOTAL CIRCUIT LENGTH (MILES) 37.155
6. CUSTOMER COUNT FOR THIS CIRCUIT 458
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2011 projected to be cut 2018-2019
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS
NUMBERS REPRESENTED BY EACH CAUSE See Attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 87.90
10. REPORTING YEAR (SAIDI) 115.24
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) .83
12. REPORTING YEAR (SAIFI) 1.25
13. CORRECTIVE ACTION PLAN Right of Way projected to be cut in 2018-2019

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

Substation	ElementName
------------	-------------

THREE FORKS	THRFRKS 2
-------------	-----------

Planned	Cust	CustMin	%
---------	------	---------	---

14	38	1189	2.28%
----	----	------	-------

Equipment	Cust	CustMin
-----------	------	---------

2	63	7557	14.52%
---	----	------	--------

Maintenance	Cust	CustMin
-------------	------	---------

2	463	43309	83.20%
---	-----	-------	--------

52055	100%
-------	------

SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1: Union City 1

1. SUBSTATION NAME AND NUMBER Union City-S90
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Madison County- Union City Road- Richmond KY
3. CIRCUIT NAME AND NUMBER Union City 1- Hampton Ridge
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Union City West, Hunter Lane, Brookstown
5. TOTAL CIRCUIT LENGTH (MILES) 44.736
6. CUSTOMER COUNT FOR THIS CIRCUIT 512
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2018
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS
NUMBERS REPRESENTED BY EACH CAUSE See Attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 87.05
10. REPORTING YEAR (SAIDI) 226.64
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) .49
12. REPORTING YEAR (SAIFI) 1.15
13. CORRECTIVE ACTION PLAN Right of Way currently being cut

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

Substation	ElementName
------------	-------------

UNION CITY	UNION CITY 1
------------	--------------

Planned	Cust	CustMin	%
---------	------	---------	---

8	39	3752	3.24%
---	----	------	-------

Equipment	Cust	CustMin
-----------	------	---------

4	48	9729	8.39%
---	----	------	-------

Maintenance	Cust	CustMin
-------------	------	---------

7	332	68241	58.85%
---	-----	-------	--------

Weather	Cust	CustMin
---------	------	---------

11	108	29049	25.05%
----	-----	-------	--------

Animal	Cust	CustMin	
2	23	2033	1.75%

Unknown	Cust	CustMin	
4	38	3146	2.71%

115950 100%

KENTUCKY PUBLIC SERVICE COMMISSION

SECTION 6: VEGETATION MANAGEMENT PLAN REVIEW

INCLUDE CURRENT VEGETATION MANAGEMENT PLAN

Additional page may be attached as needed.

Clark Energy is scheduled to cut 250 miles of existing line in 2018 and will be spraying the 265.5 miles of line that was cut in 2017. We continue to strive to improve upon and control future growth.

SECTION 7: UTILITY COMMENTS

Clark Energy experienced three major event days in 2017 but still had a decent year outage wise. Clark continues to improve upon our reliability to our member/owners by continuing with pole inspection/replacements and with conductor changes that are scheduled over the next few years. We also experienced several Power Supply outages that contributed significantly to our SAIDI and SAIFI numbers causing some circuits to go above the five year average.

SAIDI and SAIFI for all required Substation Circuits

<u>Station/circuit</u>	<u>5 yr avg</u> <u>SAIDI</u>	<u>2017</u>	<u>5 yr avg</u> <u>SAIFI</u>	<u>2017</u>
Becknerville 1	5.34	5.48	0.07	0.08
Becknerville 2	40.87	64.61	0.29	0.65
Blevins Valley 1	75.86	131.45	0.88	0.57
Bowen 1	235.9	228.1	1.38	1.81
Cave Run 2	131.47	163.4	1.38	1.39
Clay City 1	54.51	82.06	0.53	0.81
Clay City 4	214.56	217.16	1.35	1.65
Frenchburg 1	173.68	211.35	1.72	1.37
Hardwicks Creek 2	21.4	44.29	0.25	0.24
Hardwicks Creek 3	58.55	135.98	0.55	2.22
Hinkston 1	3.35	15.67	0.02	0.11
Hope 2	65.97	99.14	0.91	1.39
Hunt 2	169.82	177.66	0.82	0.7
Mariba 4	44.84	24.06	0.49	0.64
Miller Hunt 1	94.11	79.86	1.02	1.35
Miller Hunt 3	80.82	90.99	0.57	0.99
Reid Village 1	57.71	150.77	0.68	1.36
Reid Village 3	77.78	114.63	0.52	0.45
Sideview 2	249.03	272.04	1.29	1.57
Stanton 5	66.07	118.8	0.66	1.06
Three Forks 1	129.3	446	1.27	2.12
Three Forks 2	87.9	115.24	0.83	1.25
Union City 1	87.05	226.64	0.49	1.15