

# KENTUCKY PUBLIC SERVICE COMMISSION

RECEIVED

## Electric Distribution Utility Annual Reliability Report

APR 28 2017

### SECTION 1: CONTACT INFORMATION

PUBLIC SERVICE  
COMMISSION

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

### SECTION 2: REPORTING YEAR

CALENDAR YEAR OF REPORT	<u>2016</u>
-------------------------	-------------

### SECTION 3: MAJOR EVENT DAYS (MED)

$T_{MED}$	<u>11.139</u>
FIRST DATE USED TO DETERMINE $T_{MED}$	<u>1/1/2011</u>
LAST DATE USED TO DETERMINE $T_{MED}$	<u>12/31/2015</u>
NUMBER OF MED IN REPORT YEAR	<u>0</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>26,348</u>	TOTAL CIRCUITS	<u>74</u>
-----------------	---------------	----------------	-----------

#### Excluding MED

	5 YEAR AVERAGE		REPORTING YEAR
SAIDI	<u>147.43</u>	SAIDI	<u>140.34</u>
SAIFI	<u>1.58</u>	SAIFI	<u>1.48</u>

#### Including MED

	5 YEAR AVERAGE		REPORTING YEAR
SAIDI	<u>336.18</u>	SAIDI	<u>140.34</u>
SAIFI	<u>2.1</u>	SAIFI	<u>1.48</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 6: VEGETATION MANAGEMENT PLAN REVIEW

### INCLUDE CURRENT VEGETATION MANAGEMENT PLAN

Additional page may be attached as needed.

Clark Energy continues to focus on vegetation management which includes circuit cutting and herbicide-spraying of prior year clearing. In the year 2017, Clark Energy is clearing 265.5 miles of existing line and also have 210 mile of line to be sprayed in an effort to control future growth.

We continue to strive to meet our goal of circuit clearing rotation.

---

## SECTION 7: UTILITY COMMENTS

Clark Energy has an exceptionally good year in 2016 concerning weather related outages, although we did have several smaller storms that passed through our service area, we were fortunate to not encounter any Major Event Days. Clark Energy has and will continue to address small and problem conductor changes such as 6A/8A and #4 ACSR. We have over 50 miles of conductor to change along with several multi-phasing projects in our current work plan. Clark Energy experienced several Power Supply outages in 2016 which contributed significantly to our SAIDI and SAIFI numbers and pushing some circuits past our five year average.

## SAIDI and SAIFI for all required Substations

Station name	5 yr. avg SAIDI	2016	5 yr. Avg. SAIFI	2016
Blevins Valley 2	214.9	260.4	2.65	1.57
Clay City 1	30.7	61.09	0.43	0.6
Clay City 4	152.9	204.53	1.08	1.06
Frenchburg 1	133.86	244.18	1.28	3.11
Hardwicks Cr. 2	24.57	51.39	0.27	0.55
Hinkston 1	3.05	6.91	0.02	0.04
Hinkston 3	223.03	159.75	2.14	1.47
Hope 2	49.36	143.79	0.76	1.99
Hope 3	108.74	221.65	1.49	2.3
Hunt 1	62.06	123.85	0.84	1.55
Hunt 3	226.71	292.4	2.14	2.14
Mariba 2	142.68	258.49	1.87	2.57
Mt. Sterling 2	95.44	110.71	0.87	1.85
Reid Village 3	117.72	97.42	0.97	0.53
Trapp 1	76.62	160.39	0.6	1.8
Trapp 2	63.95	182.76	0.57	0.43
Treehaven 3	0.36	23.1	0.01	0.14
J ville 2	121.84	126.25	1.17	1.52
Van Meter 3	106.39	177.98	1.16	1.35

**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 25
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Clark - Combs Ferry- Winchester
3. CIRCUIT NAME AND NUMBER Becknerville 1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Combs Ferry
5. TOTAL CIRCUIT LENGTH (MILES) 7.633
6. CUSTOMER COUNT FOR THIS CIRCUIT 31
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2014
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMI  
NUMBERS REPRESENTED BY EACH CAUSE see attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 3.68
10. REPORTING YEAR (SAIDI) 8.33
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) .05
12. REPORTING YEAR (SAIFI) .12
13. CORRECTIVE ACTION PLAN none at this time

Substation	Feeder	Cause	Customers Affe	Customer Minut	%
<b>Weather</b>					50
BECKNERVILLE	Becknerville1	500 Lightning	2	180	
<b>Right of Way</b>					50
BECKNERVILLE	Becknerville1	430 Tree failure from overhang or dead tree without ice/snow	1	29	
<b>Total of 2 outages</b>					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 25
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Clark - Combs Ferry- Winchester
3. CIRCUIT NAME AND NUMBER Becknerville Circuit 2
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Waterworks Road
5. TOTAL CIRCUIT LENGTH (MILES) 23.843
6. CUSTOMER COUNT FOR THIS CIRCUIT 153
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2014
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMI  
NUMBERS REPRESENTED BY EACH CAUSE see attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 21.34
10. REPORTING YEAR (SAIDI) 98.87
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) .15
12. REPORTING YEAR (SAIFI) .71
13. CORRECTIVE ACTION PLAN none at this time

Substation	Feeder	Cause	CustomersAffected	CustomerMinutes
<b>Planned</b>				
BECKNERVILLE	Becknerville2	100 Construction	4	368
BECKNERVILLE	Becknerville2	100 Construction	3	162
			7	530
<b>Weather</b>				
BECKNERVILLE	Becknerville2	500 Lightning	2	20
BECKNERVILLE	Becknerville2	500 Lightning	4	340
BECKNERVILLE	Becknerville2	500 Lightning	3	261
			9	621
<b>Animal</b>				
BECKNERVILLE	Becknerville2	600 Small Animal/Bird	6	588
			6	588
<b>Equipment</b>				
BECKNERVILLE	Becknerville2	300 Material or Equipment Fault/Failure	63	10773
BECKNERVILLE	Becknerville2	400 Decay/Age of Material/Equipment	11	946
			74	11719

% |

25

37.5

12.5

25

Toptal of 8 outages

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 2

1. SUBSTATION NAME AND NUMBER      Blevins Valley 16
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Bath-Blevins Valley Road-Owingsville
3. CIRCUIT NAME AND NUMBER              Blevins Valley Circuit 2
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Bath County- Blevins Valley
5. TOTAL CIRCUIT LENGTH (MILES) 40.044
6. CUSTOMER COUNT FOR THIS CIRCUIT      489
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2017 in progress
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMI  
NUMBERS REPRESENTED BY EACH CAUSE      see attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 214.90
10. REPORTING YEAR (SAIDI) 260.40
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.57
12. REPORTING YEAR (SAIFI) 2.65
13. CORRECTIVE ACTION PLAN



Substation	Feeder	Cause	CustomersAffected	CustomerMinute	%
<b>Planned</b>					16.7
BLEVINS VALLEY	BLEVAL2	100 Construction	31	1240	
BLEVINS VALLEY	BLEVAL2	110 Maintenance	2	126	
BLEVINS VALLEY	BLEVAL2	110 Maintenance	61	1769	
BLEVINS VALLEY	BLEVAL2	110 Maintenance	21	1386	
BLEVINS VALLEY	BLEVAL2	490 Maintenance, Other	27	4428	
			<b>142</b>	<b>8949</b>	
<b>Equipment</b>					10
BLEVINS VALLEY	BLEVAL2	300 Material or Equipment Fault/Failure	54	3240	
BLEVINS VALLEY	BLEVAL2	300 Material or Equipment Fault/Failure	1	81	
BLEVINS VALLEY	BLEVAL2	400 Decay/Age of Material/Equipment	45	1890	
			<b>100</b>	<b>5211</b>	
<b>Right of Way</b>					43.3
BLEVINS VALLEY	BLEVAL2	420 Tree Growth	3	159	
BLEVINS VALLEY	BLEVAL2	430 Tree failure from overhang or dead tree without ice/snow	26	2808	
BLEVINS VALLEY	BLEVAL2	430 Tree failure from overhang or dead tree without ice/snow	29	3596	
BLEVINS VALLEY	BLEVAL2	430 Tree failure from overhang or dead tree without ice/snow	1	275	
BLEVINS VALLEY	BLEVAL2	430 Tree failure from overhang or dead tree without ice/snow	1	221	
BLEVINS VALLEY	BLEVAL2	430 Tree failure from overhang or dead tree without ice/snow	2	122	
BLEVINS VALLEY	BLEVAL2	430 Tree failure from overhang or dead tree without ice/snow	1	90	
BLEVINS VALLEY	BLEVAL2	430 Tree failure from overhang or dead tree without ice/snow	8	2600	
BLEVINS VALLEY	BLEVAL2	430 Tree failure from overhang or dead tree without ice/snow	28	1736	
BLEVINS VALLEY	BLEVAL2	430 Tree failure from overhang or dead tree without ice/snow	21	9072	
BLEVINS VALLEY	BLEVAL2	430 Tree failure from overhang or dead tree without ice/snow	53	17967	
BLEVINS VALLEY	BLEVAL2	430 Tree failure from overhang or dead tree without ice/snow	174	17354	
BLEVINS VALLEY	BLEVAL2	430 Tree failure from overhang or dead tree without ice/snow	1	57	
			<b>348</b>	<b>56057</b>	
<b>Weather</b>					10
BLEVINS VALLEY	BLEVAL2	500 Lightning	5	490	
BLEVINS VALLEY	BLEVAL2	500 Lightning	9	468	
BLEVINS VALLEY	BLEVAL2	510 Wind, Not Trees	408	24480	
			<b>422</b>	<b>25438</b>	

<b>Animal</b>				
BLEVINS VALLEY	BLEVAL2	600 Small Animal/Bird	9	612
BLEVINS VALLEY	BLEVAL2	600 Small Animal/Bird	4	368
BLEVINS VALLEY	BLEVAL2	600 Small Animal/Bird	3	234
			<b>16</b>	<b>1214</b>
<b>Public</b>				
BLEVINS VALLEY	BLEVAL2	710 Motor Vehicle	1	131
BLEVINS VALLEY	BLEVAL2	790 Public, Other	10	870
			<b>11</b>	<b>1001</b>
<b>Uknown</b>				
BLEVINS VALLEY	BLEVAL2	999 Cause Unknown	57	9861
			<b>57</b>	<b>9861</b>

10

6.7

3.3

100

Total of 30 outages

**SECTION 5: CIRCUIT REPORTING**

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

**(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)**

**CIRCUIT #1:** Cane Ridge 1

1. SUBSTATION NAME AND NUMBER Cane Ridge 24
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Bourbon- College Road- Paris
3. CIRCUIT NAME AND NUMBER Cane Ridge 1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) College Road, Steele Road
5. TOTAL CIRCUIT LENGTH (MILES) 26.915
6. CUSTOMER COUNT FOR THIS CIRCUIT 173
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2016
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMI  
NUMBERS REPRESENTED BY EACH CAUSE see attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 198.63
10. REPORTING YEAR (SAIDI) 223.09
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.02
12. REPORTING YEAR (SAIFI) .98
13. CORRECTIVE ACTION PLAN none at this time

Substation	Feeder	Cause	CustomersAffected	CustomerMinutes
<b>Right of Way</b>				
CANE RIDGE	Caneridge1	420 Tree Grow	6	684

%  
5.9

**Weather**

CANE RIDGE	Cainridge1	500 Lightning	7	791
CANE RIDGE	Caneridge1	500 Lightning	49	19992
CANE RIDGE	Caneridge1	500 Lightning	1	117
CANE RIDGE	Caneridge1	500 Lightning	7	735
CANE RIDGE	Caneridge1	500 Lightning	1	102
CANE RIDGE	Caneridge1	500 Lightning	38	5548
CANE RIDGE	Caneridge1	500 Lightning	1	204
			<b>104</b>	<b>27489</b>

41.2

**Animal**

CANE RIDGE	Caneridge1	600 Small Anin	7	511
CANE RIDGE	Caneridge1	600 Small Anin	10	800
CANE RIDGE	Caneridge1	600 Small Anin	2	264
CANE RIDGE	Cainridge1	610 Large Anin	8	1032
			<b>27</b>	<b>2607</b>

23.5

**Public**

CANE RIDGE	Cainridge1	710 Motor Veh	27	7047
CANE RIDGE	Cainridge1	710 Motor Veh	27	1485
			<b>54</b>	<b>8532</b>

11.8

**Uknown**

CANE RIDGE	Cainridge1	999 Cause Unk	7	735
CAIN RIDGE	Caneridge1	999 Cause Unk	6	444
CANE RIDGE	Caneridge1	999 Cause Unk	27	5076
			<b>40</b>	<b>6255</b>

17.6

--	--	--	--	--

**Total of 17 outages**

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 3

1. SUBSTATION NAME AND NUMBER Clay City 11
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Powell- Ships Branch- Clay City
3. CIRCUIT NAME AND NUMBER Clay City 3
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Black Creek and Beechfork Roads
5. TOTAL CIRCUIT LENGTH (MILES) 11.847
6. CUSTOMER COUNT FOR THIS CIRCUIT 702
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2010
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMI  
NUMBERS REPRESENTED BY EACH CAUSE see attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 14.26
10. REPORTING YEAR (SAIDI) 93.06
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) .22
12. REPORTING YEAR (SAIFI) 1.13
13. CORRECTIVE ACTION PLAN ROW is to cut in 2018; no corrective action at this time

Substation	Feeder	Cause	CustomersAffected	CustomerMinutes	%
<b>Planned</b>					<b>29.3</b>
CLAY CITY	CLAYCTY3	100 Construction	5	115	
CLAY CITY	CLAYCTY3	100 Construction	1	13	
CLAY CITY	CLAYCTY3	100 Construction	4	308	
CLAY CITY	CLAYCTY3	110 Maintenance	5	70	
CLAY CITY	CLAYCTY3	110 Maintenance	2	22	
			<b>17</b>	<b>528</b>	
<b>Equipment</b>					<b>11.8</b>
CLAY CITY	CLAYCTY3	300 Material or Equipment	8	2240	
CLAY CITY	CLAYCTY3	300 Material or Equipment	11	704	
			<b>19</b>	<b>2944</b>	
<b>Right of Way</b>					<b>11.8</b>
CLAY CITY	CLAYCTY3	420 Tree Growth	13	559	
CLAY CITY	CLAYCTY3	420 Tree Growth	10	2760	
			<b>23</b>	<b>3319</b>	
<b>Weather</b>					<b>23.5</b>
CLAY CITY	CLAYCTY3	500 Lightning	1	126	
CLAY CITY	CLAYCTY3	500 Lightning	7	140	
CLAY CITY	CLAYCTY3	500 Lightning	3	228	
CLAY CITY	CLAYCTY3	500 Lightning	606	48480	
			<b>617</b>	<b>48974</b>	
<b>Animal</b>					<b>11.8</b>
CLAY CITY	CLAYCTY3	600 Small Animal/Bird	1	36	
CLAY CITY	CLAYCTY3	600 Small Animal/Bird	1	67	
			<b>2</b>	<b>103</b>	

<b>Public</b>				
CLAY CITY	CLAYCTY3	790 Public, Other	1	348
			<b>1</b>	<b>348</b>
<b>Uknown</b>				
CLAY CITY	CLAYCTY3	999 Cause Unknown	4	168
			<b>4</b>	<b>168</b>
<b>Total of 17 outages</b>				

5.9

5.9

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 11
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Powell-Ships Branch- Clay City
3. CIRCUIT NAME AND NUMBER Clay City 3
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Lofty Heights
5. TOTAL CIRCUIT LENGTH (MILES) 32.286
6. CUSTOMER COUNT FOR THIS CIRCUIT 585
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2010
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMI  
NUMBERS REPRESENTED BY EACH CAUSE see attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 152.90
10. REPORTING YEAR (SAIDI) 204.53
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.08
12. REPORTING YEAR (SAIFI) 1.06
13. CORRECTIVE ACTION PLAN  
Large outage due to motor vehicle accident and the ROW is due to be cut in 2018



Substation	Feeder	Cause	CustomersAffected	CustomerMinutes
<b>Planned</b>				
CLAY CITY	CLAYCTY4	100 Construction	2	146
CLAY CITY	CLAYCTY4	110 Maintenance	5	755
			<b>7</b>	<b>901</b>
<b>Equipment</b>				
CLAY CITY	CLAYCTY4	300 Material or Equipment Fault/Failure	1	94
CLAY CITY	CLAYCTY4	340 Overload	4	720
CLAY CITY	CLAYCTY4	340 Overload	3	135
			<b>8</b>	<b>949</b>
<b>Right of Way</b>				
CLAY CITY	CLAYCTY4	430 Tree failure from overhang or dead tree without ice	2	222
CLAY CITY	CLAYCTY4	430 Tree failure from overhang or dead tree without ice	3	462
CLAY CITY	CLAYCTY4	430 Tree failure from overhang or dead tree without ice	2	304
CLAY CITY	CLAYCTY4	430 Tree failure from overhang or dead tree without ice	7	378
CLAY CITY	CLAYCTY4	430 Tree failure from overhang or dead tree without ice	17	4199
CLAY CITY	CLAYCTY4	430 Tree failure from overhang or dead tree without ice	1	316
CLAY CITY	CLAYCTY4	430 Tree failure from overhang or dead tree without ice	85	19236
CLAY CITY	CLAYCTY4	430 Tree failure from overhang or dead tree without ice	152	9732
CLAY CITY	CLAYCTY4	430 Tree failure from overhang or dead tree without ice	1	75
			<b>270</b>	<b>34924</b>
<b>Weather</b>				
CLAY CITY	CLAYCTY4	500 Lightning	3	237
CLAY CITY	CLAYCTY4	500 Lightning	2	132
			<b>5</b>	<b>369</b>
<b>Public</b>				
CLAY CITY	CLAYCTY4	710 Motor Vehicle	237	65076
			<b>237</b>	<b>65076</b>
<b>Unknown</b>				
CLAY CITY	CLAYCTY4	999 Cause Unknown	1	45
			<b>1</b>	<b>45</b>

% |  
11.1

16.6

50

11.1

5.6

5.6

**Total of 18 outages**

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 6
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Menifee- HWY 36- Frenchburg
3. CIRCUIT NAME AND NUMBER              Frenchburg 1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)    HWY 460 East
5. TOTAL CIRCUIT LENGTH (MILES)    44.800
6. CUSTOMER COUNT FOR THIS CIRCUIT    500
- 7.. DATE OF LAST CIRCUIT TRIM (VM)    2017 in progress
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMI  
NUMBERS REPRESENTED BY EACH CAUSE      see attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)    133.86
10. REPORTING YEAR (SAIDI)    244.18
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)    1.28
12. REPORTING YEAR (SAIFI)    3.11
13. CORRECTIVE ACTION PLAN  
    ROW to be cut on entire station in 2017, recondutoring and multi-phase to be done 2017

Substation	Feeder	Cause	CustomersAffected	CustomerMinutes
<b>Planned</b>				
FRENCHBURG	FRNBURG1	100 Construction	1	56
FRENCHBURG	FRNBURG1	100 Construction	21	399
FRENCHBURG	FRNBURG1	110 Maintenance	1	26
FRENCHBURG	FRNBURG1	110 Maintenance	1	21
FRENCHBURG	FRNBURG1	110 Maintenance	11	561
FRENCHBURG	FRNBURG1	110 Maintenance	3	117
			<b>38</b>	<b>1180</b>
<b>Equipment</b>				
FRENCHBURG	FRNBURG1	300 Material or Equipment Fault/Failure	2	98
FRENCHBURG	FRNBURG1	300 Material or Equipment Fault/Failure	9	1113
FRENCHBURG	FRNBURG1	400 Decay/Age of Material/Equipment	372	21270
			<b>383</b>	<b>22481</b>
<b>Right of Way</b>				
FRENCHBURG	FRNBURG1	420 Tree Growth	372	41664
FRENCHBURG	FRNBURG1	420 Tree Growth	423	26820
FRENCHBURG	FRNBURG1	420 Tree Growth	1	73
FRENCHBURG	FRNBURG1	430 Tree failure from overhang or dead tre	2	564
FRENCHBURG	FRNBURG1	430 Tree failure from overhang or dead tre	21	2520
			<b>819</b>	<b>71641</b>
<b>Weather</b>				
FRENCHBURG	FRNBURG1	500 Lightning	2	46
FRENCHBURG	FRNBURG1	500 Lightning	1	155
FRENCHBURG	FRNBURG1	500 Lightning	3	840
			<b>6</b>	<b>1041</b>
<b>Unknown</b>				
FRENCHBURG	FRNBURG1	999 Cause Unknown	2	66
FRENCHBURG	FRNBURG1	999 Cause Unknown	55	6050

% |  
30

15

25

15

15

FRENCHBURG	FRNBURG1	999 Cause Unknown	1	23
			<b>58</b>	<b>6139</b>

**Total of 20 outages**

**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 23
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Powell- Happy Top- Clay City
3. CIRCUIT NAME AND NUMBER              Hardwicks Creek 2
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)      Hardwicks Creek Road
5. TOTAL CIRCUIT LENGTH (MILES)    5.530
6. CUSTOMER COUNT FOR THIS CIRCUIT    44
7. DATE OF LAST CIRCUIT TRIM (VM)    2011
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMI  
NUMBERS REPRESENTED BY EACH CAUSE      see attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)    24.57
10. REPORTING YEAR (SAIDI)    51.39
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)    .27
12. REPORTING YEAR (SAIFI)    .55
13. CORRECTIVE ACTION PLAN  
work plan condutor change 2016 no corrective action at this time

Substation	Feeder	Cause	CustomersAffected	CustomerMinutes
<b>Weather</b>				
HARDWICKS CREEK	HARDWICKS2	500 Lightning	7	567
<b>Right of Way</b>				
HARDWICKS CREEK	HARDWICKS2	430 Tree failure from overhang or dead tree w	14	1401
<b>Planned</b>				
HARDWICKS CREEK	HARDWICKS2	110 Maintenance	1	87

%  
33

33

34

**Total of 3 outages**

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 12
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Montgomery- Hinkston- Mt. Sterling
3. CIRCUIT NAME AND NUMBER Hinkston 1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Industrial Park
5. TOTAL CIRCUIT LENGTH (MILES) 1.893
6. CUSTOMER COUNT FOR THIS CIRCUIT 28
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2017 in progress
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMI  
NUMBERS REPRESENTED BY EACH CAUSE see attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 3.05
10. REPORTING YEAR (SAIDI) 6.91
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) .02
12. REPORTING YEAR (SAIFI) .04
13. CORRECTIVE ACTION PLAN  
no corrective action required at this time

Substation Equipment	Feeder	Cause	CustomersAffected	CustomerMinutes	%
HINKSTON	HINKSTON1	300 Material or Equipment	1	187	100

**Total of 1 outage**



**SECTION 5: CIRCUIT REPORTING**

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

**(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)**

**CIRCUIT #1:** Hinkston 3

1. SUBSTATION NAME AND NUMBER Hinkston 12
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Montgomery- Hinkston- Mt. Sterling
3. CIRCUIT NAME AND NUMBER Hinkston 2
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Industrial Park/ Howards Mill Road
5. TOTAL CIRCUIT LENGTH (MILES) 19.115
6. CUSTOMER COUNT FOR THIS CIRCUIT 170
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2017 in progress
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMI  
NUMBERS REPRESENTED BY EACH CAUSE see attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 53.10
10. REPORTING YEAR (SAIDI) 159.75
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
12. REPORTING YEAR (SAIFI)
13. CORRECTIVE ACTION PLAN  
no corrective action required at this time

Substation	Feeder	Cause	CustomersAffected	CustomerMinutes
<b>Equipment</b>				
HINKSTON	HINKSTON3	300 Material or Equipment Fault/Failure	50	3700
HINKSTON	Hinkston3	300 Material or Equipment Fault/Failure	67	6700
			<b>117</b>	<b>10400</b>

%  
16.7

**Right of Way**

HINKSTON	HINKSTON3	420 Tree Growth	1	122
HINKSTON	HINKSTON3	420 Tree Growth	3	387
HINKSTON	HINKSTON3	430 Tree failure from overhang or dead tree	1	180
			<b>5</b>	<b>689</b>

25

**Weather**

HINKSTON	HINKSTON3	500 Lightning	1	72
HINKSTON	HINKSTON3	500 Lightning	12	2160
HINKSTON	Hinkston3	500 Lightning	67	9916
HINKSTON	Hinkston3	500 Lightning	12	1224
HINKSTON	Hinkston3	500 Lightning	12	192
			<b>104</b>	<b>13564</b>

41.7

**Public**

HINKSTON	HINKSTON3	710 Motor Vehicle	1	59
			1	59

8.3

**Unknown**

HINKSTON	HINKSTON3	999 Cause Unknown	2	180
			<b>2</b>	<b>180</b>

8.3

--	--	--	--	--

**Total of 12 outages**

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 3

1. SUBSTATION NAME AND NUMBER Hope 02
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Montgomery- Hope Means- Mt. Sterling
3. CIRCUIT NAME AND NUMBER Hope 3
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Hope Means Road
5. TOTAL CIRCUIT LENGTH (MILES) 90.55
6. CUSTOMER COUNT FOR THIS CIRCUIT 1072
7. DATE OF LAST CIRCUIT TRIM (VM) 2016
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMI  
NUMBERS REPRESENTED BY EACH CAUSE see attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 108.74
10. REPORTING YEAR (SAIDI) 221.65
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.49
12. REPORTING YEAR (SAIFI) 2.30
13. CORRECTIVE ACTION PLAN  
ROW cut on entire station 2016 no corrective action at this time

Substation	Feeder	Cause	CustomersAffected	CustomerMinutes
Planned				
HOPE	HOPE3	100 Construction	3	267
HOPE	HOPE3	100 Construction	1	55
HOPE	HOPE3	100 Construction	3	315
HOPE	HOPE3	100 Construction	4	148
HOPE	HOPE3	100 Construction	3	681
HOPE	HOPE3	100 Construction	1	27
HOPE	HOPE3	100 Construction	1	24
HOPE	HOPE3	100 Construction	1	37
HOPE	HOPE3	100 Construction	1	42
HOPE	HOPE3	100 Construction	1	23
HOPE	HOPE3	100 Construction	1	27
HOPE	HOPE3	100 Construction	1	44
HOPE	HOPE3	100 Construction	1	278
HOPE	HOPE3	100 Construction	1	72
HOPE	HOPE3	100 Construction	1	64
HOPE	HOPE3	100 Construction	1	58
HOPE	HOPE3	100 Construction	1	62
HOPE	HOPE3	100 Construction	1	72
HOPE	HOPE3	100 Construction	1	63
HOPE	HOPE3	100 Construction	1	79
HOPE	HOPE3	100 Construction	1	31
HOPE	HOPE3	100 Construction	1	63
HOPE	HOPE3	100 Construction	2	196
HOPE	HOPE3	100 Construction	1	18
HOPE	HOPE3	100 Construction	1	61
HOPE	HOPE3	100 Construction	2	48
HOPE	HOPE3	100 Construction	1	107
HOPE	HOPE3	110 Maintenance	3	135
HOPE	HOPE3	110 Maintenance	2	102
HOPE	HOPE3	490 Maintenance, Other	92	12328
			<b>135</b>	<b>15527</b>

% |  
31.3

<b>Equipment</b>				
HOPE	HOPE3	300 Material or Equipment Fault/Failure	1	83
HOPE	HOPE3	300 Material or Equipment Fault/Failure	114	7176
HOPE	HOPE3	300 Material or Equipment Fault/Failure	10	1220
HOPE	HOPE3	300 Material or Equipment Fault/Failure	443	72652
HOPE	HOPE3	300 Material or Equipment Fault/Failure	1	40
HOPE	HOPE3	300 Material or Equipment Fault/Failure	10	1000
HOPE	HOPE3	300 Material or Equipment Fault/Failure	4	388
HOPE	HOPE3	300 Material or Equipment Fault/Failure	75	2250
HOPE	HOPE3	340 Overload	7	476
HOPE	HOPE3	400 Decay/Age of Material/Equipment	2	218
HOPE	HOPE3	400 Decay/Age of Material/Equipment	4	328
HOPE	HOPE3	400 Decay/Age of Material/Equipment	16	1440
HOPE	HOPE3	400 Decay/Age of Material/Equipment	444	47916
			<b>1131</b>	<b>135187</b>
<b>Right of Way</b>				
HOPE	HOPE3	420 Tree Growth	22	2992
HOPE	HOPE3	420 Tree Growth	10	390
HOPE	HOPE3	420 Tree Growth	12	1176
HOPE	HOPE3	420 Tree Growth	12	4704
HOPE	HOPE3	430 Tree failure from overhang or dead tre	1	153
HOPE	HOPE3	430 Tree failure from overhang or dead tre	26	5408
HOPE	HOPE3	430 Tree failure from overhang or dead tre	81	11201
HOPE	HOPE3	430 Tree failure from overhang or dead tre	1	89
HOPE	HOPE3	430 Tree failure from overhang or dead tre	10	560
HOPE	HOPE3	470 Borrower crew cuts tree	1	28
HOPE	HOPE3	470 Borrower crew cuts tree	443	7531
			<b>619</b>	<b>34232</b>
<b>Weather</b>				
HOPE	HOPE3	500 Lightning	12	888

13.5

11.5

35.4

HOPE	HOPE3	500 Lightning	3	216
HOPE	HOPE3	500 Lightning	1	23
HOPE	HOPE3	500 Lightning	1	68
HOPE	HOPE3	500 Lightning	4	520
HOPE	HOPE3	500 Lightning	3	273
HOPE	HOPE3	500 Lightning	10	360
HOPE	HOPE3	500 Lightning	3	642
HOPE	HOPE3	500 Lightning	3	657
HOPE	HOPE3	500 Lightning	1	43
HOPE	HOPE3	500 Lightning	1	61
HOPE	HOPE3	500 Lightning	119	9758
HOPE	HOPE3	500 Lightning	1	81
HOPE	HOPE3	500 Lightning	2	134
HOPE	HOPE3	500 Lightning	1	144
HOPE	HOPE3	500 Lightning	13	2353
HOPE	HOPE3	500 Lightning	1	61
HOPE	HOPE3	500 Lightning	1	116
HOPE	HOPE3	500 Lightning	1	84
HOPE	HOPE3	500 Lightning	1	93
HOPE	HOPE3	500 Lightning	27	2106
HOPE	HOPE3	500 Lightning	1	67
HOPE	HOPE3	500 Lightning	1	34
HOPE	HOPE3	500 Lightning	3	414
HOPE	HOPE3	500 Lightning	11	451
HOPE	HOPE3	500 Lightning	2	128
HOPE	HOPE3	500 Lightning	1	80
HOPE	HOPE3	500 Lightning	10	810
HOPE	HOPE3	500 Lightning	18	1404
HOPE	HOPE3	500 Lightning	1	134
HOPE	HOPE3	500 Lightning	3	183
HOPE	HOPE3	500 Lightning	5	195
HOPE	HOPE3	500 Lightning	1	49
HOPE	HOPE3	500 Lightning	2	126

			<b>268</b>	<b>22756</b>
<b>Animal</b>				
HOPE	HOPE3	600 Small Animal/Bird	2	146
HOPE	HOPE3	600 Small Animal/Bird	5	150
HOPE	HOPE3	600 Small Animal/Bird	1	39
HOPE	HOPE3	600 Small Animal/Bird	1	86
			<b>9</b>	<b>421</b>
<b>Public</b>				
HOPE	HOPE3	710 Motor Vehicle	2	126
HOPE	HOPE3	790 Public, Other	1	219
HOPE	HOPE3	790 Public, Other	7	644
			<b>10</b>	<b>989</b>
<b>Unknown</b>				
HOPE	HOPE3	999 Cause Unknown	1	89
			<b>1</b>	<b>89</b>

Total of 96 outages

4.2

3.1

1

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 1

1. SUBSTATION NAME AND NUMBER      Hunt 03
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Clark - Jackson Ferry- Winchester
3. CIRCUIT NAME AND NUMBER              Hunt 1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)      College Hill Road/Madison County
5. TOTAL CIRCUIT LENGTH (MILES)      40.131
6. CUSTOMER COUNT FOR THIS CIRCUIT      413
- 7.. DATE OF LAST CIRCUIT TRIM (VM)      2011
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMI  
NUMBERS REPRESENTED BY EACH CAUSE      see attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)      62.06
10. REPORTING YEAR (SAIDI)      123.85
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)      .84
12. REPORTING YEAR (SAIFI)      1.55
13. CORRECTIVE ACTION PLAN  
    ROW to be cut on entire station 2018



Substation	Feeder	Cause	CustomersAffected	CustomerMinutes
<b>Power Supply</b>				
HUNT	HUNT1	000 Power Supply	359	14360
			<b>359</b>	<b>14360</b>
<b>Planned</b>				
HUNT	HUNT1	100 Construction	7	1267
HUNT	HUNT1	100 Construction	1	113
HUNT	HUNT1	100 Construction	2	216
HUNT	HUNT1	100 Construction	2	150
HUNT	HUNT1	100 Construction	9	3195
HUNT	HUNT1	100 Construction	2	126
HUNT	HUNT1	490 Maintenance, Other	30	4200
			<b>53</b>	<b>9267</b>
<b>Equipment</b>				
HUNT	HUNT1	300 Material or Equipment Fault/Failure	1	184
HUNT	HUNT1	300 Material or Equipment Fault/Failure	3	264
			<b>4</b>	<b>448</b>
<b>Right of Way</b>				
HUNT	HUNT1	430 Tree failure from overhang or dead tre	3	669
HUNT	HUNT1	430 Tree failure from overhang or dead tre	3	180
HUNT	HUNT1	430 Tree failure from overhang or dead tre	3	369
HUNT	HUNT1	430 Tree failure from overhang or dead tre	1	113
HUNT	HUNT1	430 Tree failure from overhang or dead tre	27	5670
HUNT	HUNT1	430 Tree failure from overhang or dead tre	59	10679
			<b>96</b>	<b>17680</b>

%  
4.34

30.43

8.7

26.1

**Weather**

21.73

HUNT	HUNT1	500 Lightning	4	216
HUNT	HUNT1	500 Lightning	3	210
HUNT	HUNT1	500 Lightning	2	98
HUNT	HUNT1	500 Lightning	29	1769
HUNT	HUNT1	510 Wind, Not Trees	6	558
			<b>44</b>	<b>2851</b>
<b>Animal</b>				
HUNT	HUNT1	600 Small Animal/Bird	1	52
HUNT	HUNT1	601 Squirrel	2	100
			<b>3</b>	<b>152</b>

8.7

**Total of 23 outages**

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 3

1. SUBSTATION NAME AND NUMBER      Hunt 03
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Clark - Jackson Ferry- Winchester
3. CIRCUIT NAME AND NUMBER              Hunt 3
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)      Muddy Creek Road
5. TOTAL CIRCUIT LENGTH (MILES)      78.438
6. CUSTOMER COUNT FOR THIS CIRCUIT      789
- 7.. DATE OF LAST CIRCUIT TRIM (VM)      2011
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMI  
NUMBERS REPRESENTED BY EACH CAUSE      see attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)      226.71
10. REPORTING YEAR (SAIDI)      292.40
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)      2.14
12. REPORTING YEAR (SAIFI)      2.14
13. CORRECTIVE ACTION PLAN  
    ROW on entire station 2018 reconductor and multi-phasing to be done on work plan

Substation	Feeder	Cause	CustomersAffected	CustomerMinutes
<b>Power Supply</b>				
HUNT	HUNT3	000 Power Supply	663	32318
			<b>663</b>	<b>32318</b>
<b>Planned</b>				
HUNT	HUNT3	100 Construction	2	258
HUNT	HUNT3	100 Construction	2	256
HUNT	HUNT3	100 Construction	1	91
HUNT	HUNT3	100 Construction	2	262
HUNT	HUNT3	100 Construction	10	230
HUNT	HUNT3	100 Construction	1	81
HUNT	HUNT3	110 Maintenance	5	205
HUNT	HUNT3	110 Maintenance	1	45
			<b>24</b>	<b>1428</b>
<b>Equipment</b>				
HUNT	HUNT3	300 Material or Equipment Fault/Failure	2	62
HUNT	HUNT3	300 Material or Equipment Fault/Failure	4	308
HUNT	HUNT3	300 Material or Equipment Fault/Failure	2	222
HUNT	HUNT3	300 Material or Equipment Fault/Failure	1	274
HUNT	HUNT3	300 Material or Equipment Fault/Failure	1	204
HUNT	HUNT3	300 Material or Equipment Fault/Failure	2	308
HUNT	HUNT3	400 Decay/Age of Material/Equipment	2	44
HUNT	HUNT3	400 Decay/Age of Material/Equipment	3	828
HUNT	HUNT3	400 Decay/Age of Material/Equipment	5	475
			<b>22</b>	<b>2725</b>
<b>Right of Way</b>				
HUNT	HUNT3	420 Tree Growth	8	1816
HUNT	HUNT3	420 Tree Growth	10	2400
HUNT	HUNT3	420 Tree Growth	1	139
HUNT	HUNT3	420 Tree Growth	6	198
HUNT	HUNT3	420 Tree Growth	4	176

% |  
1.6

12.9

14.5

29.05

HUNT	HUNT3	420 Tree Growth	1	121
HUNT	HUNT3	430 Tree failure from overhang or dead tre	6	594
HUNT	HUNT3	430 Tree failure from overhang or dead tre	6	1092
HUNT	HUNT3	430 Tree failure from overhang or dead tre	25	29150
HUNT	HUNT3	430 Tree failure from overhang or dead tre	6	1056
HUNT	HUNT3	430 Tree failure from overhang or dead tre	4	300
HUNT	HUNT3	430 Tree failure from overhang or dead tre	1	132
HUNT	HUNT3	430 Tree failure from overhang or dead tre	2	172
HUNT	HUNT3	430 Tree failure from overhang or dead tre	2	356
HUNT	HUNT3	430 Tree failure from overhang or dead tre	6	456
HUNT	HUNT3	430 Tree failure from overhang or dead tre	4	444
HUNT	HUNT3	430 Tree failure from overhang or dead tre	501	102204
HUNT	HUNT3	470 Borrower crew cuts tree	6	414
			<b>599</b>	<b>141220</b>
<b>Weather</b>				
HUNT	HUNT3	500 Lightning	6	258
HUNT	HUNT3	500 Lightning	6	2904
HUNT	HUNT3	500 Lightning	10	990
HUNT	HUNT3	500 Lightning	1	110
HUNT	HUNT3	500 Lightning	1	16
HUNT	HUNT3	500 Lightning	10	1180
HUNT	HUNT3	500 Lightning	1	51
HUNT	HUNT3	500 Lightning	6	630
HUNT	HUNT3	500 Lightning	4	816
HUNT	HUNT3	500 Lightning	6	1050
HUNT	HUNT3	500 Lightning	5	545
HUNT	HUNT3	500 Lightning	7	1400
HUNT	HUNT3	500 Lightning	1	92
HUNT	HUNT3	500 Lightning	1	55
HUNT	HUNT3	500 Lightning	2	352
HUNT	HUNT3	500 Lightning	3	1257
HUNT	HUNT3	500 Lightning	3	225

29.05

HUNT	HUNT3	500 Lightning	5	455
			<b>78</b>	<b>12386</b>
<b>Animal</b>				
HUNT	HUNT3	600 Small Animal/Bird	9	954
HUNT	HUNT3	600 Small Animal/Bird	4	500
HUNT	HUNT3	600 Small Animal/Bird	1	90
HUNT	HUNT3	600 Small Animal/Bird	1	68
			<b>15</b>	<b>1612</b>
<b>Public</b>				
HUNT	HUNT3	710 Motor Vehicle	6	488
HUNT	HUNT3	790 Public, Other	1	36
			<b>7</b>	<b>524</b>
<b>Unknown</b>				
HUNT	HUNT3	999 Cause Unknown	2	308
HUNT	HUNT3	999 Cause Unknown	5	755
			<b>7</b>	<b>1063</b>

**Total of 62 outages**

6.5

3.2

3.2

100

**SECTION 5: CIRCUIT REPORTING**

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

**(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)**

**CIRCUIT #1:** Jeffersonville 2

1. SUBSTATION NAME AND NUMBER      Jeffersonville 14
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Montgomery-HWY 1050- Mt. Sterling
3. CIRCUIT NAME AND NUMBER      Jeffersonville 2
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)      Means
5. TOTAL CIRCUIT LENGTH (MILES)      46.403
6. CUSTOMER COUNT FOR THIS CIRCUIT      625
- 7.. DATE OF LAST CIRCUIT TRIM (VM)      2016
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMI  
NUMBERS REPRESENTED BY EACH CAUSE      see attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)      121.84
10. REPORTING YEAR (SAIDI)      126.25
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)      1.17
12. REPORTING YEAR (SAIFI)      1.52
13. CORRECTIVE ACTION PLAN  
2017 work plan has conductor change and voltage conversion

Substation	Feeder	Cause	CustomersAffected	CustomerMinutes
<b>Planned</b>				
JEFFERSONVILLE	JVILLE2	100 Construction	1	106
JEFFERSONVILLE	JVILLE2	100 Construction	34	1700
JEFFERSONVILLE	JVILLE2	100 Construction	3	276
JEFFERSONVILLE	JVILLE2	100 Construction	9	738
JEFFERSONVILLE	JVILLE2	100 Construction	10	620
JEFFERSONVILLE	JVILLE2	100 Construction	2	118
JEFFERSONVILLE	JVILLE2	100 Construction	3	231
			<b>62</b>	<b>3789</b>
<b>Equipment</b>				
JEFFERSONVILLE	JVILLE2	300 Material or Equipment Fault/Failure	1	123
JEFFERSONVILLE	JVILLE2	300 Material or Equipment Fault/Failure	1	49
JEFFERSONVILLE	JVILLE2	300 Material or Equipment Fault/Failure	1	161
JEFFERSONVILLE	JVILLE2	300 Material or Equipment Fault/Failure	2	146
JEFFERSONVILLE	JVILLE2	400 Decay/Age of Material/Equipment	560	30800
			<b>565</b>	<b>31279</b>
<b>Load</b>				
JEFFERSONVILLE	JVILLE2	340 Overload	7	539
JEFFERSONVILLE	JVILLE2	340 Overload	3	93
			<b>10</b>	<b>632</b>

% |  
19.4

13.9

5.6



**Right of Way**

33.3

JEFFERSONVILLE	JVILLE2	420 Tree Growth	2	94
JEFFERSONVILLE	JVILLE2	420 Tree Growth	2	352
JEFFERSONVILLE	JVILLE2	420 Tree Growth	2	144
JEFFERSONVILLE	JVILLE2	430 Tree failure from overhang or dead tre	1	408
JEFFERSONVILLE	JVILLE2	430 Tree failure from overhang or dead tre	95	22580
JEFFERSONVILLE	JVILLE2	430 Tree failure from overhang or dead tre	2	536
JEFFERSONVILLE	JVILLE2	430 Tree failure from overhang or dead tre	1	37
JEFFERSONVILLE	JVILLE2	430 Tree failure from overhang or dead tre	4	180
JEFFERSONVILLE	JVILLE2	430 Tree failure from overhang or dead tre	11	869
JEFFERSONVILLE	JVILLE2	430 Tree failure from overhang or dead tre	5	270
JEFFERSONVILLE	JVILLE2	430 Tree failure from overhang or dead tre	27	2322
JEFFERSONVILLE	JVILLE2	440 Trees With Ice/Snow	6	414
			<b>158</b>	<b>28206</b>
<b>Weather</b>				
JEFFERSONVILLE	JVILLE2	500 Lightning	1	123
JEFFERSONVILLE	JVILLE2	500 Lightning	27	4293
JEFFERSONVILLE	JVILLE2	500 Lightning	2	94
JEFFERSONVILLE	JVILLE2	500 Lightning	1	188
JEFFERSONVILLE	JVILLE2	500 Lightning	1	131
JEFFERSONVILLE	JVILLE2	500 Lightning	10	650
			<b>42</b>	<b>5479</b>
<b>Public</b>				
JEFFERSONVILLE	JVILLE2	790 Public, Other	1	26
			<b>1</b>	<b>26</b>
<b>Unknown</b>				
JEFFERSONVILLE	JVILLE2	999 Cause Unknown	1	74
JEFFERSONVILLE	JVILLE2	999 Cause Unknown	1	70
JEFFERSONVILLE	JVILLE2	999 Cause Unknown	11	1067

16.7

2.8

8.3

			13	1211
--	--	--	----	------

Total of 36 outages

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 2

1. SUBSTATION NAME AND NUMBER Mariba 18
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Menifee-Frenchburg
3. CIRCUIT NAME AND NUMBER Mariba 2
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Tarr Ridge Road
5. TOTAL CIRCUIT LENGTH (MILES) 89.867
6. CUSTOMER COUNT FOR THIS CIRCUIT 1115
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2013
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMI  
NUMBERS REPRESENTED BY EACH CAUSE see attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 142.68
10. REPORTING YEAR (SAIDI) 258.49
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.87
12. REPORTING YEAR (SAIFI) 2.14
13. CORRECTIVE ACTION PLAN no corrective action at this time

Substation	Feeder	Cause	CustomersAffected	CustomerMinutes
<b>Planned</b>				
MARIBA	MARIBA2	100 Construction	3	186
MARIBA	MARIBA2	100 Construction	4	244
MARIBA	MARIBA2	100 Construction	14	2408
MARIBA	MARIBA2	100 Construction	1	35
<b>Equipment</b>				
MARIBA	MARIBA2	300 Material or Equipment Fault/Failure	1	418
MARIBA	MARIBA2	300 Material or Equipment Fault/Failure	3	255
MARIBA	MARIBA2	300 Material or Equipment Fault/Failure	937	44039
MARIBA	MARIBA2	300 Material or Equipment Fault/Failure	1	95
MARIBA	MARIBA2	300 Material or Equipment Fault/Failure	1	65
MARIBA	MARIBA2	300 Material or Equipment Fault/Failure	1	42
MARIBA	MARIBA2	300 Material or Equipment Fault/Failure	9	684
MARIBA	MARIBA2	340 Overload	1	6
MARIBA	MARIBA2	400 Decay/Age of Material/Equipment	3	339
			<b>957</b>	<b>45943</b>
<b>Right of Way</b>				
MARIBA	MARIBA2	430 Tree failure from overhang or dead tre	21	3801
MARIBA	MARIBA2	430 Tree failure from overhang or dead tre	5	880
MARIBA	MARIBA2	430 Tree failure from overhang or dead tre	22	7480
MARIBA	MARIBA2	430 Tree failure from overhang or dead tre	1	239
MARIBA	MARIBA2	430 Tree failure from overhang or dead tre	57	684
MARIBA	MARIBA2	430 Tree failure from overhang or dead tre	3	321
			<b>109</b>	<b>13405</b>

% |  
9.1

20.5

13.6

<b>Weather</b>				
MARIBA	MARIBA2	500 Lightning	5	305
MARIBA	MARIBA2	500 Lightning	1	36
MARIBA	MARIBA2	500 Lightning	4	24
MARIBA	MARIBA2	500 Lightning	2	58
MARIBA	MARIBA2	500 Lightning	1	133
MARIBA	MARIBA2	500 Lightning	1	185
MARIBA	MARIBA2	500 Lightning	1	59
MARIBA	MARIBA2	500 Lightning	2	82
MARIBA	MARIBA2	500 Lightning	1	182
MARIBA	MARIBA2	500 Lightning	19	3325
MARIBA	MARIBA2	500 Lightning	7	1008
MARIBA	MARIBA2	500 Lightning	2	176
MARIBA	MARIBA2	500 Lightning	1	32
MARIBA	MARIBA2	500 Lightning	1	141
			<b>48</b>	<b>5746</b>
<b>Animal</b>				
MARIBA	MARIBA2	600 Small Animal/Bird	3	174
MARIBA	MARIBA2	600 Small Animal/Bird	3	402
MARIBA	MARIBA2	601 Squirrel	24	984
			<b>30</b>	<b>1560</b>
<b>Public</b>				
MARIBA	MARIBA2	740 Public Cuts Tree	2	104
			<b>2</b>	<b>104</b>
<b>Unknown</b>				
MARIBA	MARIBA2	999 Cause Unknown	703	124589
MARIBA	MARIBA2	999 Cause Unknown	17	1054
MARIBA	MARIBA2	999 Cause Unknown	2	232
MARIBA	MARIBA2	999 Cause Unknown	498	44820

31.8

6.8

2.3

15.9

MARIBA	MARIBA2	999 Cause Unknown	1	119
MARIBA	MARIBA2	999 Cause Unknown	12	1200
MARIBA	MARIBA2	999 Cause Unknown	7	210
			<b>1240</b>	<b>172224</b>

**Total of 44 outages**

**SECTION 5: CIRCUIT REPORTING**

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

**(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)**

**CIRCUIT #1:** Mt. Sterling 2

1. SUBSTATION NAME AND NUMBER Mt. Sterling 07
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Montgomery- HWY 11- Mt. Sterling
3. CIRCUIT NAME AND NUMBER Mt, Sterling 2
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Levee Road Area
5. TOTAL CIRCUIT LENGTH (MILES) 59.040
6. CUSTOMER COUNT FOR THIS CIRCUIT 758
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2014
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMI  
NUMBERS REPRESENTED BY EACH CAUSE see attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 95.44
10. REPORTING YEAR (SAIDI) 110.71
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) .87
12. REPORTING YEAR (SAIFI) 1.85
13. CORRECTIVE ACTION PLAN no corrective action at this time

Substation	Feeder	Cause	CustomersAffected	CustomerMinutes
<b>Planned</b>				
MT. STERLING	MTSTR LG2	100 Construction	1	24
MT. STERLING	MTSTR LG2	100 Construction	4	228
MT. STERLING	MTSTR LG2	110 Maintenance	1	43
MT. STERLING	MTSTR LG2	110 Maintenance	1	10
MT. STERLING	MTSTR LG2	490 Maintenance, Other	69	9777
MT. STERLING	MTSTR LG2	490 Maintenance, Other	1	115
			<b>77</b>	<b>10197</b>
<b>Equipment</b>				
MT. STERLING	MTSTR LG2	300 Material or Equipment Fault/Failure	2	244
MT. STERLING	MTSTR LG2	300 Material or Equipment Fault/Failure	1	164
MT. STERLING	MTSTR LG2	300 Material or Equipment Fault/Failure	1	68
MT. STERLING	MTSTR LG2	300 Material or Equipment Fault/Failure	22	3388
MT. STERLING	MTSTR LG2	300 Material or Equipment Fault/Failure	1	71
MT. STERLING	MTSTR LG2	300 Material or Equipment Fault/Failure	1	184
MT. STERLING	MTSTR LG2	300 Material or Equipment Fault/Failure	3	219
MT. STERLING	MTSTR LG2	300 Material or Equipment Fault/Failure	5	555
MT. STERLING	MTSTR LG2	340 Overload	2	242
MT. STERLING	MTSTR LG2	410 Corrosion/Abrasion of Material/Equipr	1	137
			<b>39</b>	<b>5272</b>
<b>Right of Way</b>				
MT. STERLING	MTSTR LG2	420 Tree Growth	1	239
MT. STERLING	MTSTR LG2	420 Tree Growth	37	3404
MT. STERLING	MTSTR LG2	430 Tree failure from overhang or dead tre	41	3641
MT. STERLING	MTSTR LG2	430 Tree failure from overhang or dead tre	19	874
MT. STERLING	MTSTR LG2	430 Tree failure from overhang or dead tre	5	955
MT. STERLING	MTSTR LG2	430 Tree failure from overhang or dead tre	7	973
			<b>110</b>	<b>10086</b>

%  
12

20

12



**Weather**

40

MT. STERLING	MTSTR LG2	500 Lightning	33	2416
MT. STERLING	MTSTR LG2	500 Lightning	3	405
MT. STERLING	MTSTR LG2	500 Lightning	3	315
MT. STERLING	MTSTR LG2	500 Lightning	1	55
MT. STERLING	MTSTR LG2	500 Lightning	1	259
MT. STERLING	MTSTR LG2	500 Lightning	1	1523
MT. STERLING	MTSTR LG2	500 Lightning	1	58
MT. STERLING	MTSTR LG2	500 Lightning	1	88
MT. STERLING	MTSTR LG2	500 Lightning	5	345
MT. STERLING	MTSTR LG2	500 Lightning	4	976
MT. STERLING	MTSTR LG2	500 Lightning	1	64
MT. STERLING	MTSTR LG2	500 Lightning	9	576
MT. STERLING	MTSTR LG2	500 Lightning	1	175
MT. STERLING	MTSTR LG2	500 Lightning	1	95
MT. STERLING	MTSTR LG2	500 Lightning	1	82
MT. STERLING	MTSTR LG2	500 Lightning	1	76
MT. STERLING	MTSTR LG2	500 Lightning	1	42
MT. STERLING	MTSTR LG2	500 Lightning	2	130
MT. STERLING	MTSTR LG2	500 Lightning	2	310
MT. STERLING	MTSTR LG2	500 Lightning	9	882
			<b>81</b>	<b>8872</b>
<b>Animal</b>				
MT. STERLING	MTSTR LG2	600 Small Animal/Bird	2	96
MT. STERLING	MTSTR LG2	601 Squirrel	2	164
MT. STERLING	MTSTR LG2	601 Squirrel	7	1127
MT. STERLING	MTSTR LG2	601 Squirrel	2	130
			<b>13</b>	<b>1517</b>
<b>Public</b>				

8

4

MT. STERLING	MTSTR LG2	740 Public Cuts Tree	654	23544
MT. STERLING	MTSTR LG2	800 Other	235	12238
			<b>889</b>	<b>35782</b>
<b>Uknown</b>				
MT. STERLING	MTSTR LG2	999 Cause Unknown	4	468
MT. STERLING	MTSTR LG2	999 Cause Unknown	2	350
			<b>6</b>	<b>818</b>
<b>Total of 50 outages</b>				

4

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 20
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Montgomery- Winchester Road- Mt. Sterling
3. CIRCUIT NAME AND NUMBER Reid Village 3
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 91
- 7.. DATE OF LAST CIRCUIT TRIM (VM) 2015
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMI  
NUMBERS REPRESENTED BY EACH CAUSE see attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 25.26
10. REPORTING YEAR (SAIDI) 97.42
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) .33
12. REPORTING YEAR (SAIFI) .53
13. CORRECTIVE ACTION PLAN no corrective action at this time

Substation	Feeder	Cause	CustomersAffected	CustomerMinutes	%
<b>Equipment</b>					25
REID VILLAGE	RDVILLAGE3	350 Miscoordination of Protection Devices	9	459	
<b>Public</b>					25
REID VILLAGE	RDVILLAGE3	710 Motor Vehicle	3	441	
<b>Right of Way</b>					25
REID VILLAGE	RDVILLAGE3	430 Tree failure from overhang or dead tre	28	6636	
<b>Uknown</b>					25
REID VILLAGE	RDVILLAGE3	999 Cause Unknown	2	146	
<b>Total of 4 outages</b>					100

**SECTION 5: CIRCUIT REPORTING**

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

**(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)**

**CIRCUIT #1:** Trapp 1

1. SUBSTATION NAME AND NUMBER Trapp 19
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Clark - Trapp Goffs Corner- Winchester
3. CIRCUIT NAME AND NUMBER Trapp 1
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Trapp Goffs Corner Road
5. TOTAL CIRCUIT LENGTH (MILES) 23.606
6. CUSTOMER COUNT FOR THIS CIRCUIT 238
7. DATE OF LAST CIRCUIT TRIM (VM) 2011
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMI  
NUMBERS REPRESENTED BY EACH CAUSE see attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 76.62
10. REPORTING YEAR (SAIDI) 160.39
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) .60
12. REPORTING YEAR (SAIFI) 1.80
13. CORRECTIVE ACTION PLAN  
2017 work plan calls for voltage conversion

<u>Substation</u>	<u>Feeder</u>	<u>Cause</u>	<u>CustomersAffected</u>	<u>CustomerMinutes</u>	<u>%</u>
<b>Planned</b>					30
TRAPP	TRAPP1	100 Construction	1	56	
TRAPP	TRAPP1	100 Construction	4	804	
TRAPP	TRAPP1	100 Construction	12	1004	
			17	1864	
<b>Equipment</b>					10
TRAPP	TRAPP1	410 Corrosion/Abrasion of Mate	1	98	
			1	98	
<b>Weather</b>					40
TRAPP	TRAPP1	500 Lightning	2	178	
TRAPP	TRAPP1	500 Lightning	1	65	
TRAPP	TRAPP1	510 Wind, Not Trees	216	20520	
TRAPP	TRAPP1	510 Wind, Not Trees	54	2322	
			273	23085	
<b>Animal</b>					10
TRAPP	TRAPP1	600 Small Animal/Bird	13	949	
			13	949	
<b>Unknown</b>					10
TRAPP	TRAPP1	999 Cause Unknown	69	7176	
			69	7176	
<b>Total of 10 outages</b>					100

**SECTION 5: CIRCUIT REPORTING**

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

**(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)**

**CIRCUIT #1:** Trapp 2

1. SUBSTATION NAME AND NUMBER Trapp 19
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Clark - Trapp Goffs Corner- Winchester
3. CIRCUIT NAME AND NUMBER Trapp 2
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Red River Road
5. TOTAL CIRCUIT LENGTH (MILES) 34.517
6. CUSTOMER COUNT FOR THIS CIRCUIT 271
7. DATE OF LAST CIRCUIT TRIM (VM) 2011
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE see attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 63.95
10. REPORTING YEAR (SAIDI) 182.76
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) .57
12. REPORTING YEAR (SAIFI) .43
13. CORRECTIVE ACTION PLAN  
maintenance and cutout replacement in 2017

Substation	Feeder	Cause	CustomersAffected	CustomerMinutes
<b>Planned</b>				
TRAPP	TRAPP2	100 Construction	1	123
TRAPP	TRAPP2	100 Construction	2	246
TRAPP	TRAPP2	100 Construction	1	33
			<b>4</b>	<b>402</b>
<b>Equipment</b>				
TRAPP	TRAPP2	300 Material or Equipment Fault/Failure	1	94
TRAPP	TRAPP2	300 Material or Equipment Fault/Failure	1	90
TRAPP	TRAPP2	300 Material or Equipment Fault/Failure	7	861
TRAPP	TRAPP2	430 Tree failure from overhang or dead tre	24	3792
TRAPP	TRAPP2	430 Tree failure from overhang or dead tre	50	15350
TRAPP	TRAPP2	430 Tree failure from overhang or dead tre	2	174
TRAPP	TRAPP2	430 Tree failure from overhang or dead tre	22	6996
			<b>107</b>	<b>27357</b>
<b>Animal</b>				
TRAPP	TRAPP2	600 Small Animal/Bird	1	119
TRAPP	TRAPP2	601 Squirrel	7	595
TRAPP	TRAPP2	601 Squirrel	22	35904
			<b>30</b>	<b>36618</b>
<b>Public</b>				
TRAPP	TRAPP2	710 Motor Vehicle	2	112
TRAPP	TRAPP2	740 Public Cuts Tree	2	178
			<b>4</b>	<b>290</b>
<b>Unknown</b>				
TRAPP	TRAPP2	999 Cause Unknown	11	957
			<b>11</b>	<b>957</b>
<b>Total of 16 outages</b>				

% |  
18.7

43.8

18.7

12.5

6.3

100



**SECTION 5: CIRCUIT REPORTING**

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

**(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)**

**CIRCUIT #1:** Treehaven 3

1. SUBSTATION NAME AND NUMBER      Treehaven 15
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Clark - Gawthorpe Drive- Winchester
3. CIRCUIT NAME AND NUMBER              Treehaven 3
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)      Treehaven Mobile Home Park
5. TOTAL CIRCUIT LENGTH (MILES)      1.763
6. CUSTOMER COUNT FOR THIS CIRCUIT      167
- 7.. DATE OF LAST CIRCUIT TRIM (VM)      2015
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMI  
NUMBERS REPRESENTED BY EACH CAUSE      see attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)      .36
10. REPORTING YEAR (SAIDI)      23.10
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)      .01
12. REPORTING YEAR (SAIFI)      .14
13. CORRECTIVE ACTION PLAN      no corrective action at this time

Substation	Feeder	Cause	CustomersAffected	CustomerMinutes	%
<b>Planned</b>					<b>66.7</b>
TREEHAVEN	TREEHAVEN3	100 Construction	5	1900	
TREEHAVEN	TREEHAVEN3	100 Construction	8	592	
			<b>13</b>	<b>2492</b>	
<b>Weather</b>					<b>33.3</b>
TREEHAVEN	TREEHAVEN3	500 Lightning	7	791	
<b>Total of 3 outages</b>			<b>7</b>	<b>791</b>	<b>100</b>

**SECTION 5: CIRCUIT REPORTING**

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

**(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)**

**CIRCUIT #1:** VanMeter 3

1. SUBSTATION NAME AND NUMBER VanMeter 08
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) Clark - Clintonville Road- Winchester
3. CIRCUIT NAME AND NUMBER VanMeter 3
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) Van Meter Road
5. TOTAL CIRCUIT LENGTH (MILES) 62.806
6. CUSTOMER COUNT FOR THIS CIRCUIT 611
- 7.. DATE OF LAST CIRCUIT TRIM (VM) currently has hourly cutting done
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMI  
NUMBERS REPRESENTED BY EACH CAUSE see attached
9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 106.39
10. REPORTING YEAR (SAIDI) 177.98
11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 1.16
12. REPORTING YEAR (SAIFI) 1.35
13. CORRECTIVE ACTION PLAN  
multi-phase and conductor change under work plan

Substation	Feeder	Cause	CustomersAffected	CustomerMinutes
<b>Planned</b>				
VAN METER	VANMTR3	100 Construction	1	399
VAN METER	VANMTR3	100 Construction	3	291
VAN METER	VANMTR3	100 Construction	2	192
VAN METER	VANMTR3	100 Construction	2	112
VAN METER	VANMTR3	100 Construction	8	432
VAN METER	VANMTR3	110 Maintenance	2	100
VAN METER	VANMTR3	110 Maintenance	4	92
VAN METER	VANMTR3	110 Maintenance	2	36
			<b>24</b>	<b>1654</b>
<b>Equipment</b>				
VAN METER	VANMETER3	300 Material or Equipment Fault/Failure	2	170
VAN METER	VANMTR3	300 Material or Equipment Fault/Failure	11	1045
			<b>13</b>	<b>1215</b>
<b>Load</b>				
VAN METER	VANMETER3	340 Overload	8	584
VAN METER	VANMTR3	340 Overload	1	46
			<b>9</b>	<b>630</b>
<b>Right of Way</b>				
VAN METER	VANMTR3	420 Tree Growth	272	47872
VAN METER	VANMTR3	420 Tree Growth	1	205
VAN METER	VANMTR3	420 Tree Growth	9	747
VAN METER	VANMTR3	420 Tree Growth	9	1161
VAN METER	VANMTR3	420 Tree Growth	32	2528
VAN METER	VANMTR3	420 Tree Growth	1	159
VAN METER	VANMTR3	430 Tree failure from overhang or dead tre	9	4086
VAN METER	VANMTR3	430 Tree failure from overhang or dead tre	32	3520
VAN METER	VANMTR3	430 Tree failure from overhang or dead tre	2	220
			<b>367</b>	<b>60498</b>

% |  
20.5

5.1

5.1

23.1

<b>Weather</b>				
VAN METER	VANMTR3	500 Lightning	13	1326
VAN METER	VANMTR3	500 Lightning	1	48
VAN METER	VANMTR3	500 Lightning	2	314
VAN METER	VANMTR3	500 Lightning	1	149
VAN METER	VANMTR3	500 Lightning	1	95
VAN METER	VANMTR3	500 Lightning	1	74
VAN METER	VANMTR3	500 Lightning	1	43
VAN METER	VANMTR3	500 Lightning	1	155
			<b>21</b>	<b>2204</b>
<b>Animal</b>				
VAN METER	VANMTR3	600 Small Animal/Bird	14	1498
VAN METER	VANMTR3	600 Small Animal/Bird	14	756
VAN METER	VANMTR3	600 Small Animal/Bird	2	210
VAN METER	VANMTR3	600 Small Animal/Bird	1	97
VAN METER	VANMTR3	601 Squirrel	2	74
VAN METER	VANMTR3	690 Animal, Other	9	873
			<b>42</b>	<b>3508</b>
<b>Unknown</b>				
VAN METER	VANMTR3	999 Cause Unknown	6	846
VAN METER	VANMTR3	999 Cause Unknown	1	66
VAN METER	VANMTR3	999 Cause Unknown	5	445
VAN METER	VANMTR3	999 Cause Unknown	272	28832
			<b>284</b>	<b>30189</b>
<b>total of 39 outages</b>				

20.5

15.4

10.3

100