Electric Distribution Utility Annual Reliability Report

SECTION 1: CONTACT INFORMATION

UTILITY NAME REPORT PREPARED BY E-MAIL ADDRESS OF PREPARER PHONE NUMBER OF PREPARER

FLEMING MASON ENERGY **BRANDON HUNT** bhunt@fme.coop 606-845-2661

SECTION 2: REPORTING YEAR

CALENDAR YEAR OF REPORT

2021

SECTION 3: MAJOR EVENT DAYS (MED)

 $\mathsf{T}_{\mathsf{MED}}$ FIRST DATE USED TO DETERMINE T_{MED} LAST DATE USED TO DETERMINE T_{MED} NUMBER OF MED IN REPORT YEAR

11.36	
1/1/2016	
12/31/2020	
6	

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

	Syste	em-wide Inform	nation
TOTAL CUS	STOMERS 25,310		TOTAL CIRCUITS <u>45</u>
		Excluding MED)
	5 YEAR AVERAGE	•	REPORTING YEAR
SAIDI	153.67	SAIDI	157.33
SAIFI	1.47	SAIFI	1.127
		Including MED	
	5 YEAR AVERAGE		REPORTING YEAR
SAIDI	287.03	SAIDI	443.86
SAIFI	1.48	SAIFI	1.48

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}

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 N SHARKEY	IUMBER			
2. SUBSTATION LOCATION (COUNTY-ROAD-TOW	/N)		
KY 801, SHARKEY				
3. CIRCUIT NAME AND NUMB	ER			
801/FARMERS OC	R 224			
4. CIRCUIT LOCATION (TOW)		REA)		
KY 801, FARMERS				
5. TOTAL CIRCUIT LENGTH (I	MILES)			
46.1 6. CUSTOMER COUNT FOR T				
804				
7 DATE OF LAST CIRCUIT T	RIM (VM)			
2018	X /			
8. LIST OUTAGE CAUSES FC	R CIRCUIT ALONG	NITH PER	CENTAGE OF TOTAL	OUTAGE
NUMBERS REPRESENTED) BY EACH CAUSE			
Equipment Failure 0.47	Tree Failure	0	Animal	0
Equipment Failure 0.17 Installation Fault 0	Tree w/ Ice	0 9.31	Cust Caused	0 4.06
Conductor Sag 0	In-house Tree	0	Motor Vehicle	0.636
Overload 0	Tree out of ROW	3.78	Public Cut Tree	0
Decay/Age Equip 0	Lightning	0.68	Public Other	0
Corrosion/Abrasion 0	Wind	0	Other	0
Tree Growth 12.33	Small Animal	0.13	Cause Unknown	0.06
9. CIRCUIT 5 YEAR AVERAGI				
28.64				
10. REPORTING YEAR (SAIDI)			
10. REPORTING YEAR (SAIDI 31.51)			

- 0.773
- 12. REPORTING YEAR (SAIFI)

0.204

13. CORRECTIVE ACTION PLAN

Tree growth was largest contributing cause. Tree growth will be monitored on next inspections with emphasis on yard trees.

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 NAM					
2. SUBSTATION LOC	RS LANDIN CATION (CC	-	/N)		
	LUMMERS		,		
3. CIRCUIT NAME AN	ND NUMBE	R			
BLUEBANK OCR114					
4. CIRCUIT LOCATIO	N (TOWN-	ROAD-GENERAL A	REA)		
		LANDING TO FLEM		RG	
5. TOTAL CIRCUIT L	ENGTH (M	ILES)			
48					
6. CUSTOMER COUI	NT FOR TH	IS CIRCUIT			
508					
7 DATE OF LAST C	IRCUIT TR	IM (VM)			
2020					
			NITH PER	CENTAGE OF TOTAL	OUTAGE
NUMBERS REPR	ESENTED I	BY EACH CAUSE			
	0.04		40.70	A	•
Equipment Failure				Animal Cust Caused	0 0
Conductor Sag	0.04 0	Tree w/ Ice In-house Tree		Motor Vehicle	0 0.94
Overload	0	Tree out of ROW	-		0.94
Decay/Age Equip	9.4	Lightning	0.24		0
Corrosion/Abrasion		Wind	6.98	Other	0
Tree Growth	1.79	Small Animal	0.82	Cause Unknown	15.66
			0.02		

9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 36.96

10. REPORTING YEAR (SAIDI)

69.79

- 11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
 - 0.779

12. REPORTING YEAR (SAIFI)

0.601

13. CORRECTIVE ACTION PLAN

Unknown outages and Tree failure was highest cause. Large outage that the cause was unidentified was the reason for unknown being higher.

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 NAM	-	JMBER			
Snow Hil 2. SUBSTATION LOC	-		/NI)		
	son County		(1)		
3. CIRCUIT NAME AI		• •			
Bluelicks					
4. CIRCUIT LOCATIO			REA)		
		oney Creek			
5. TOTAL CIRCUIT L 104	ENGTH (M	ILES)			
6. CUSTOMER COU		IIS CIRCUIT			
664					
7 DATE OF LAST C	IRCUIT TR	IM (VM)			
2016					
			NITH PEF	RCENTAGE OF TOTAL	. OUTAGE
NUMBERS REPR	ESENTED				
Nomber to Rei R		BY EACH CAUSE			
			0.065	Animal	0
Equipment Failure	7.35 0		0.065 0	Animal Cust Caused	0 0
Equipment Failure	7.35	Tree Failure			-
Equipment Failure Installation Fault Conductor Sag Overload	7.35 0 0 0	Tree Failure Tree w/ Ice In-house Tree Tree out of ROW	0 0	Cust Caused Motor Vehicle Public Cut Tree	0 32.67 0
Equipment Failure Installation Fault Conductor Sag Overload Decay/Age Equip	7.35 0 0 0 0.038	Tree Failure Tree w/ Ice In-house Tree Tree out of ROW Lightning	0 0 0 55.74	Cust Caused Motor Vehicle Public Cut Tree Public Other	0 32.67 0 0.018
Equipment Failure Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion	7.35 0 0 0 0.038 0	Tree Failure Tree w/ Ice In-house Tree Tree out of ROW Lightning Wind	0 0 0 55.74 0	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 32.67 0 0.018 0
Equipment Failure Installation Fault Conductor Sag Overload Decay/Age Equip	7.35 0 0 0 0.038	Tree Failure Tree w/ Ice In-house Tree Tree out of ROW Lightning	0 0 0 55.74	Cust Caused Motor Vehicle Public Cut Tree Public Other	0 32.67 0 0.018
Equipment Failure Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree w/ wind 9. CIRCUIT 5 YEAR	7.35 0 0 0.038 0 11.11	Tree Failure Tree w/ Ice In-house Tree Tree out of ROW Lightning Wind Small Animal	0 0 0 55.74 0	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 32.67 0 0.018 0
Equipment Failure Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree w/ wind 9. CIRCUIT 5 YEAR 45.78	7.35 0 0 0.038 0 11.11 AVERAGE	Tree Failure Tree w/ Ice In-house Tree Tree out of ROW Lightning Wind Small Animal	0 0 0 55.74 0	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 32.67 0 0.018 0
Equipment Failure Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree w/ wind 9. CIRCUIT 5 YEAR	7.35 0 0 0.038 0 11.11 AVERAGE	Tree Failure Tree w/ Ice In-house Tree Tree out of ROW Lightning Wind Small Animal	0 0 0 55.74 0	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 32.67 0 0.018 0

- 11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
 - 5.66
- 12. REPORTING YEAR (SAIFI)

1.61

13. CORRECTIVE ACTION PLAN

Cause unknown and motor vehicle largest contributing cause. Both causes had a large outage that effected SAIDI growth.

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	E AND NU	MBER			
Sharkey 2. SUBSTATION LOCA	ATION (CC	UNTY-ROAD-TOW	N)		
KY 801, Mo	· ·		,		
3. CIRCUIT NAME AND	-				
Family Doll 4. CIRCUIT LOCATION			REA)		
KY 801, MN					
5. TOTAL CIRCUIT LE	NGTH (MI	LES)			
1.2 6. CUSTOMER COUN ⁻					
9. CUSTOMER COUN					
7 DATE OF LAST CIR		M (∨M)			
8. LIST OUTAGE CAU NUMBERS REPRES				SENTAGE OF TOTAL	OUTAGE
	0.106	Tree Failure Tree w/ Ice	0	Animal	0
	0 0	I ree w/ ice In-house Tree	0 0	Cust Caused Motor Vehicle	0 0
_	0	Tree out of ROW	•	Public Cut Tree	0
, , , ,	0.367	Lightning	0	Public Other	0
Corrosion/Abrasion		Wind	0	Other	0
Tree W/ wind	0	Small Animal	0	Cause Unknown	0
9. CIRCUIT 5 YEAR A	VERAGE ((SAIDI)			
0.26		. ,			
10. REPORTING YEAF	R (SAIDI)				
0.47 11. CIRCUIT 5 YEAR A	VERAGE	(SAIFI)			
0.01		()			
12. REPORTING YEAF					

0.0028

13. CORRECTIVE ACTION PLAN

Underground ckt with equipment failure.

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 NAM		JMBER			
Maysville					
2. SUBSTATION LOC		JUNTY-ROAD-TOW	(N)		
		. П			
3. CIRCUIT NAME AI	logal OCR				
4. CIRCUIT LOCATIO					
	, AA HWY				
5. TOTAL CIRCUIT L		ILES)			
6.2					
6. CUSTOMER COU	NT FOR TH	IIS CIRCUIT			
67					
7 DATE OF LAST C	IRCUIT TR	IM (VM)			
2016					
			VITH PER	CENTAGE OF TOTAL	OUTAGE
NUMBERS REPR	ESENTED	BY EACH CAUSE			
Equipment Failure	0	Tree Failure	•		
	U			Animal	0
	0		0	Animal Cust Caused	0
Installation Fault	0 0	Tree w/ Ice	0	Cust Caused	0
	0 0 0	Tree w/ Ice In-house Tree	0 0		-
Installation Fault Conductor Sag Overload	0	Tree w/ Ice In-house Tree Tree out of ROW	0 0	Cust Caused Motor Vehicle	0 0
Installation Fault Conductor Sag	0 0 0	Tree w/ Ice In-house Tree	0 0 0	Cust Caused Motor Vehicle Public Cut Tree	0 0 0
Installation Fault Conductor Sag Overload Decay/Age Equip	0 0 0	Tree w/ Ice In-house Tree Tree out of ROW Lightning	0 0 0 2.69	Cust Caused Motor Vehicle Public Cut Tree Public Other	0 0 0 0
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth	0 0 0 0 0	Tree w/ Ice In-house Tree Tree out of ROW Lightning Wind Small Animal	0 0 0 2.69 0	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 0 0 0 0
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth 9. CIRCUIT 5 YEAR	0 0 0 0 0	Tree w/ Ice In-house Tree Tree out of ROW Lightning Wind Small Animal	0 0 0 2.69 0	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 0 0 0 0
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth 9. CIRCUIT 5 YEAR 1.64	0 0 0 0 0 AVERAGE	Tree w/ Ice In-house Tree Tree out of ROW Lightning Wind Small Animal	0 0 0 2.69 0	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 0 0 0 0
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth 9. CIRCUIT 5 YEAR 1.64 10. REPORTING YEA	0 0 0 0 0 AVERAGE	Tree w/ Ice In-house Tree Tree out of ROW Lightning Wind Small Animal	0 0 0 2.69 0	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 0 0 0 0
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth 9. CIRCUIT 5 YEAR 1.64	0 0 0 0 AVERAGE AR (SAIDI)	Tree w/ Ice In-house Tree Tree out of ROW Lightning Wind Small Animal (SAIDI)	0 0 0 2.69 0	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 0 0 0 0

- 0.054
- 12. REPORTING YEAR (SAIFI)

0.029

13. CORRECTIVE ACTION PLAN

One lightning outage on this short circuit

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 NAM		IMBER			
Hillsboro					
2. SUBSTATION LOC	•		(N)		
3. CIRCUIT NAME A		111, Hillsboro			
Grange C		N			
4. CIRCUIT LOCATIO		ROAD-GENERAL A	RFA)		
	ity, KY 111				
5. TOTAL CIRCUIT L		ILES)			
85.5	- (,			
6. CUSTOMER COUI	NT FOR TH	IS CIRCUIT			
504					
7 DATE OF LAST C	IRCUIT TRI	IM (VM)			
2019					
			WITH PER	CENTAGE OF TOTAL	OUTAGE
NUMBERS REPR	ESENTED	BY EACH CAUSE			
Equipment Failure	1.57	Tree W/ Wind	6.56	Animal	0
Equipment Failure Installation Fault	1.57 0	Tree W/ Wind Tree w/ Ice	6.56 6.76	Animal Cust Caused	0 0.066
Installation Fault					-
Installation Fault	0	Tree w/ Ice	6.76 0	Cust Caused Motor Vehicle Public Cut Tree	0.066
Installation Fault Conductor Sag Overload Decay/Age Equip	0 0.26 0 0	Tree w/ Ice In-house Tree Tree out of ROW Lightning	6.76 0	Cust Caused Motor Vehicle	0.066 0 0 0
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion	0 0.26 0 0	Tree w/ Ice In-house Tree Tree out of ROW Lightning Wind	6.76 0 2.44 0	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0.066 0 0 0 0.39
Installation Fault Conductor Sag Overload Decay/Age Equip	0 0.26 0 0	Tree w/ Ice In-house Tree Tree out of ROW Lightning	6.76 0 2.44	Cust Caused Motor Vehicle Public Cut Tree Public Other	0.066 0 0 0
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth	0 0.26 0 0 0 0	Tree w/ Ice In-house Tree Tree out of ROW Lightning Wind Small Animal	6.76 0 2.44 0	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0.066 0 0 0 0.39
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth 9. CIRCUIT 5 YEAR	0 0.26 0 0 0 0	Tree w/ Ice In-house Tree Tree out of ROW Lightning Wind Small Animal	6.76 0 2.44 0	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0.066 0 0 0 0.39
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth 9. CIRCUIT 5 YEAR 18.36	0 0.26 0 0 0 0 0 AVERAGE	Tree w/ Ice In-house Tree Tree out of ROW Lightning Wind Small Animal	6.76 0 2.44 0	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0.066 0 0 0 0.39
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth 9. CIRCUIT 5 YEAR 18.36 10. REPORTING YEA	0 0.26 0 0 0 0 0 AVERAGE	Tree w/ Ice In-house Tree Tree out of ROW Lightning Wind Small Animal	6.76 0 2.44 0	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0.066 0 0 0 0.39
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth 9. CIRCUIT 5 YEAR 18.36 10. REPORTING YEA 25.28	0 0.26 0 0 0 0 AVERAGE AR (SAIDI)	Tree w/ Ice In-house Tree Tree out of ROW Lightning Wind Small Animal (SAIDI)	6.76 0 2.44 0	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0.066 0 0 0 0.39
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth 9. CIRCUIT 5 YEAR 18.36 10. REPORTING YEA	0 0.26 0 0 0 0 AVERAGE AR (SAIDI)	Tree w/ Ice In-house Tree Tree out of ROW Lightning Wind Small Animal (SAIDI)	6.76 0 2.44 0	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0.066 0 0 0 0.39
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth 9. CIRCUIT 5 YEAR 18.36 10. REPORTING YEA 25.28 11. CIRCUIT 5 YEAR	0 0.26 0 0 0 AVERAGE AR (SAIDI) AVERAGE	Tree w/ Ice In-house Tree Tree out of ROW Lightning Wind Small Animal (SAIDI)	6.76 0 2.44 0	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0.066 0 0 0 0.39

0.2

13. CORRECTIVE ACTION PLAN

Trees during storm situations was the largest cause.

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 NAI		JMBER			
			/N1)		
2. SUBSTATION LOC	ounty, KY		/IN)		
3. CIRCUIT NAME A	•				
	Point OCR				
4. CIRCUIT LOCATIO			REA)		
KY 32, M					
5. TOTAL CIRCUIT L		IILES)			
41.7	,	,			
6. CUSTOMER COU	NT FOR TH	IS CIRCUIT			
916					
7 DATE OF LAST C	IRCUIT TR	RIM (VM)			
2018					
			NITH PE	RCENTAGE OF TOTAI	_ OUTAGE
NUMBERS REPR	ESENTED	BY EACH CAUSE			
Equipment Failure	0.07	Tree w/ wind	9 94	Animal	0
Equipment Failure	0.07 0	Tree w/ wind Tree w/ Ice	9.94 0	Animal Cust Caused	0
Installation Fault	0.07 0 0	Tree w/ wind Tree w/ Ice Tree w/ Wind	9.94 0 0	Animal Cust Caused Motor Vehicle	0 0 0.53
	0	Tree w/ Ice	0 0	Cust Caused Motor Vehicle	0
Installation Fault Conductor Sag Overload	0	Tree w/ Ice Tree w/ Wind Tree out of ROW	0 0	Cust Caused Motor Vehicle	0 0.53
Installation Fault Conductor Sag	0 0 0 0	Tree w/ Ice Tree w/ Wind	0 0 3.49	Cust Caused Motor Vehicle Public Cut Tree	0 0.53 0
Installation Fault Conductor Sag Overload Decay/Age Equip	0 0 0 0	Tree w/ Ice Tree w/ Wind Tree out of ROW Lightning	0 0 3.49 0.13	Cust Caused Motor Vehicle Public Cut Tree Public Other	0 0.53 0 0
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion	0 0 0 0 0	Tree w/ Ice Tree w/ Wind Tree out of ROW Lightning Wind	0 0 3.49 0.13 2.6	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 0.53 0 0 0
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth 9. CIRCUIT 5 YEAR	0 0 0 0 0 0.517	Tree w/ Ice Tree w/ Wind Tree out of ROW Lightning Wind Small Animal	0 0 3.49 0.13 2.6	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 0.53 0 0 0
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth 9. CIRCUIT 5 YEAR 21.4	0 0 0 0 0.517 AVERAGE	Tree w/ Ice Tree w/ Wind Tree out of ROW Lightning Wind Small Animal	0 0 3.49 0.13 2.6	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 0.53 0 0 0
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth 9. CIRCUIT 5 YEAR 21.4 10. REPORTING YEA	0 0 0 0 0.517 AVERAGE	Tree w/ Ice Tree w/ Wind Tree out of ROW Lightning Wind Small Animal	0 0 3.49 0.13 2.6	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 0.53 0 0 0
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth 9. CIRCUIT 5 YEAR 21.4 10. REPORTING YEA 54.14	0 0 0 0.517 AVERAGE AR (SAIDI)	Tree w/ Ice Tree w/ Wind Tree out of ROW Lightning Wind Small Animal (SAIDI)	0 0 3.49 0.13 2.6	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 0.53 0 0 0
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth 9. CIRCUIT 5 YEAR 21.4 10. REPORTING YE/ 54.14 11. CIRCUIT 5 YEAR	0 0 0 0.517 AVERAGE AR (SAIDI)	Tree w/ Ice Tree w/ Wind Tree out of ROW Lightning Wind Small Animal (SAIDI)	0 0 3.49 0.13 2.6	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 0.53 0 0 0
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth 9. CIRCUIT 5 YEAR 21.4 10. REPORTING YEA 54.14	0 0 0 0.517 AVERAGE AR (SAIDI) R AVERAGE	Tree w/ Ice Tree w/ Wind Tree out of ROW Lightning Wind Small Animal (SAIDI)	0 0 3.49 0.13 2.6	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 0.53 0 0 0

0.198

13. CORRECTIVE ACTION PLAN

Tree with wind. Will monitor vegetation.

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 N	UMBER			
Charters 2. SUBSTATION LOCATION (C	COUNTY-ROAD-TO	WN)		
Lewis County, AA	HWY, Vanceburg	,		
3. CIRCUIT NAME AND NUMB	ER			
Holly OCR 234 4. CIRCUIT LOCATION (TOWN	-ROAD-GENERAL	ARFA)		
Lewis County, KY				
5. TOTAL CIRCUIT LENGTH (M				
6. CUSTOMER COUNT FOR T 832	HIS CIRCUIT			
7 DATE OF LAST CIRCUIT TH	RIM (VM)			
2017				
8. LIST OUTAGE CAUSES FO		G WITH PEF	CENTAGE OF TOTAL	OUTAGE
NUMBERS REPRESENTED	BY EACH CAUSE			
Equipment Failure 0.08	Tree Failure	11.44	Weather	1.93
Installation Fault 0	Tree w/ Ice	23.68		0
Conductor Sag 0 Overload 0	Tree OOR Tree w/ wind	240.08 2.06		0.312 0
Decay/Age Equip 0.26	Lightning	21.13		0.095
Corrosion/Abrasion 0	Wind	0	Other	0.28
Tree Growth 0	Small Animal	0	Cause Unknown	2.85
9. CIRCUIT 5 YEAR AVERAGE	E (SAIDI)			
85.2	_ ()			
10. REPORTING YEAR (SAIDI))			
304.29 11. CIRCUIT 5 YEAR AVERAG	E (SAIEI)			
3.45				

- 12. REPORTING YEAR (SAIFI)
 - 1.95
- 13. CORRECTIVE ACTION PLAN

Tree out of right of way was largest cause. Several more danger trees have already been removed.

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
Hilda
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
KY 32, ROWAN COUNTY
3. CIRCUIT NAME AND NUMBER
Interchange OCR 114
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
KY 32, ROWAN COUNTY
5. TOTAL CIRCUIT LENGTH (MILES)
20
6. CUSTOMER COUNT FOR THIS CIRCUIT
596
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

Equipment Failure	0	Tree Failure	9.05	Animal	0
Installation Fault	36.65	Tree w/ Ice	33.2	Cust Caused	0
Conductor Sag	0	In-house Tree	0	Motor Vehicle	48
Overload	0	Tree out of ROW	1.55	Public Cut Tree	0
Decay/Age Equip	0	Lightning	0.21	Public Other	0
Corrosion/Abrasion	0	Wind	0	Other	0
Tree w/ Wind	0	Small Animal	1.24	Cause Unknown	1.56

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

39.43

10. REPORTING YEAR (SAIDI)

131.35

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

3.64

12. REPORTING YEAR (SAIFI)

1.117

13. CORRECTIVE ACTION PLAN

Installation fault, Motor vehicle, and ice were all contributing to larger outage numbers.

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 NAM	-	JMBER			
Big Wood					
2. SUBSTATION LOC	•		/N)		
3. CIRCUIT NAME AN					
5. CIRCUIT NAME A	-	IN			
4. CIRCUIT LOCATIO	-	ROAD-GENERAL A	RFA)		
	OWAN CO				
5. TOTAL CIRCUIT L					
21.5	,	,			
6. CUSTOMER COUI	NT FOR TH	IIS CIRCUIT			
340					
7 DATE OF LAST C	IRCUIT TR	IM (VM)			
2018					
			NITH PEF	RCENTAGE OF TOTAL	OUTAGE
NUMBERS REPR	ESENTED	BY EACH CAUSE			
Equipment Failure	0	Tree Growth	0.486	Animal	0
Equipment Failure Installation Fault	0 0	Tree Growth Tree Failure	0.486 4.45	,	0 0
				,	-
Installation Fault	0	Tree Failure	4.45 0	Cust Caused Motor Vehicle	0
Installation Fault Conductor Sag	0 0 0	Tree Failure In-house Tree	4.45 0	Cust Caused Motor Vehicle Public Cut Tree	0 0
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion	0 0 0 0.079	Tree Failure In-house Tree Tree out of ROW Lightning Wind	4.45 0 1.1 3.38 1.2	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 0 0 0 0
Installation Fault Conductor Sag Overload Decay/Age Equip	0 0 0 0.079	Tree Failure In-house Tree Tree out of ROW Lightning	4.45 0 1.1 3.38	Cust Caused Motor Vehicle Public Cut Tree Public Other	0 0 0 0
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree w/ wind	0 0 0.079 0 0	Tree Failure In-house Tree Tree out of ROW Lightning Wind Small Animal	4.45 0 1.1 3.38 1.2	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 0 0 0 0
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree w/ wind 9. CIRCUIT 5 YEAR	0 0 0.079 0 0	Tree Failure In-house Tree Tree out of ROW Lightning Wind Small Animal	4.45 0 1.1 3.38 1.2	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 0 0 0 0
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree w/ wind 9. CIRCUIT 5 YEAR 3.69	0 0 0.079 0 0 AVERAGE	Tree Failure In-house Tree Tree out of ROW Lightning Wind Small Animal	4.45 0 1.1 3.38 1.2	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 0 0 0 0
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree w/ wind 9. CIRCUIT 5 YEAR	0 0 0.079 0 0 AVERAGE	Tree Failure In-house Tree Tree out of ROW Lightning Wind Small Animal	4.45 0 1.1 3.38 1.2	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 0 0 0 0

- 11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
 - 0.0561
- 12. REPORTING YEAR (SAIFI)
 - 0.097
- 13. CORRECTIVE ACTION PLAN

Small amount of outages on circuit. Low 5 year average.

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 NAM	ME AND NU	JMBER			
MAYSVIL					
2. SUBSTATION LOC					
		ARBER PKWY, MA	SON COUN	ITY	
3. CIRCUIT NAME AI MORANS	-	ĸ			
4. CIRCUIT LOCATIO		ROAD-GENERAL A			
5. TOTAL CIRCUIT L					
90.7	- (/			
6. CUSTOMER COU	NT FOR TH	IIS CIRCUIT			
626					
7 DATE OF LAST C	IRCUIT TR	IM (VM)			
2016					
8. LIST OUTAGE CA			MITH PERG	CENTAGE OF TOTAL	OUTAGE
NUMBERS REPR	ESENTEDI	DI EACH CAUSE			
Equipment Failure	0	Tree Failure	1	Animal	0
Installation Fault	0	Tree w/ Ice	0.37	Cust Caused	0
Conductor Sag	0	In-house Tree	0	Motor Vehicle	0
Overload	0		46.87	Public Cut Tree	0
Decay/Age Equip	0.117	Lightning	42.76	Public Other	0.94
Tree Growth	0.979	Wind	2.7	Other	0
Tree w/ wind	82.405	Small Animal	1.95	Cause Unknown	12.65
9. CIRCUIT 5 YEAR			•		
47.29					

- 10. REPORTING YEAR (SAIDI)
 - 144.51
- 11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
 - 4.91
- 12. REPORTING YEAR (SAIFI)
 - 1.67
- 13. CORRECTIVE ACTION PLAN

Trees with wind is largest cause. Circuit due to be trimmed this year.

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		IMBER			
Peasticks 2. SUBSTATION LOC	-		/NI)		
	· ·	cks, Peasticks Rd	(1)		
3. CIRCUIT NAME A					
Owingsvi	lle-Sharpsl	burg OCR 234			
4. CIRCUIT LOCATIO	· ·	ROAD-GENERAL A	REA)		
•	irg, KY 36				
5. TOTAL CIRCUIT L 149.3	ENGIH (M	ILES)			
6. CUSTOMER COU	NT FOR TH	IIS CIRCUIT			
948					
7 DATE OF LAST C	IRCUIT TR	IM (VM)			
2020					
			NITH PERG	CENTAGE OF TOTAL	OUTAGE
NUMBERS REPR	ESENTEDI	BY EACH CAUSE			
Equipment Failure	1.6	Tree Failure	0.15	Animal	0
Equipment Failure Installation Fault			0.15 32.84		0 0
Installation Fault Conductor Sag	0.057 1.99	Tree w/ wind In-house Tree	32.84 0	Cust Caused Motor Vehicle	0 1.86
Installation Fault Conductor Sag Overload	0.057 1.99 0	Tree w/ wind In-house Tree Tree out of ROW	32.84 0 0	Cust Caused Motor Vehicle Public Cut Tree	0 1.86 0
Installation Fault Conductor Sag Overload Decay/Age Equip	0.057 1.99 0 0	Tree w/ wind In-house Tree Tree out of ROW Lightning	32.84 0 0 2.87	Cust Caused Motor Vehicle Public Cut Tree Public Other	0 1.86 0 0.46
Installation Fault Conductor Sag Overload	0.057 1.99 0 0	Tree w/ wind In-house Tree Tree out of ROW	32.84 0 0	Cust Caused Motor Vehicle Public Cut Tree	0 1.86 0
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion	0.057 1.99 0 0 0	Tree w/ wind In-house Tree Tree out of ROW Lightning Wind	32.84 0 0 2.87 0	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 1.86 0 0.46 0.006
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth 9. CIRCUIT 5 YEAR	0.057 1.99 0 0 0 0	Tree w/ wind In-house Tree Tree out of ROW Lightning Wind Small Animal	32.84 0 0 2.87 0	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 1.86 0 0.46 0.006
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth 9. CIRCUIT 5 YEAR 26.3	0.057 1.99 0 0 0 0 0 AVERAGE	Tree w/ wind In-house Tree Tree out of ROW Lightning Wind Small Animal	32.84 0 0 2.87 0	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 1.86 0 0.46 0.006
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth 9. CIRCUIT 5 YEAR 26.3 10. REPORTING YEA	0.057 1.99 0 0 0 0 0 AVERAGE	Tree w/ wind In-house Tree Tree out of ROW Lightning Wind Small Animal	32.84 0 0 2.87 0	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 1.86 0 0.46 0.006
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth 9. CIRCUIT 5 YEAR 26.3 10. REPORTING YE/ 59.27	0.057 1.99 0 0 0 0 AVERAGE	Tree w/ wind In-house Tree Tree out of ROW Lightning Wind Small Animal (SAIDI)	32.84 0 0 2.87 0	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 1.86 0 0.46 0.006
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth 9. CIRCUIT 5 YEAR 26.3 10. REPORTING YEA	0.057 1.99 0 0 0 0 AVERAGE	Tree w/ wind In-house Tree Tree out of ROW Lightning Wind Small Animal (SAIDI)	32.84 0 0 2.87 0	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 1.86 0 0.46 0.006
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth 9. CIRCUIT 5 YEAR 26.3 10. REPORTING YE/ 59.27 11. CIRCUIT 5 YEAR	0.057 1.99 0 0 0 AVERAGE AR (SAIDI) AVERAGE	Tree w/ wind In-house Tree Tree out of ROW Lightning Wind Small Animal (SAIDI)	32.84 0 0 2.87 0	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 1.86 0 0.46 0.006

13. CORRECTIVE ACTION PLAN

TREES WITH WIND. Monitor trees.

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 NAI		JMBER			
Snow Hil 2. SUBSTATION LO	-	OUNTY-ROAD-TOW	/N)		
Robertso	n County, I	KY 165	/		
3. CIRCUIT NAME A		R			
Piqua OC 4. CIRCUIT LOCATIO		-ROAD-GENERAL A	REA)		
KY 165, F					
5. TOTAL CIRCUIT L	ENGTH (M	ILES)			
32.3 6. CUSTOMER COU					
176					
7 DATE OF LAST C	IRCUIT TR	IM (VM)			
2016				CENTAGE OF TOTAL	
		CIRCUIT ALONG		CENTAGE OF TOTAL	OUTAGE
NUMBERS REPR	ESENTED	BY EACH CAUSE			
-					
Equipment Failure	0	Tree Failure	0	Animal	0
Equipment Failure Installation Fault			0 0 0	Animal Cust Caused Motor Vehicle	0 0.035 0
Equipment Failure	0 0	Tree Failure Tree w/ wind	0 0	Cust Caused Motor Vehicle	0.035
Equipment Failure Installation Fault Conductor Sag Overload Decay/Age Equip	0 0 0 0 0	Tree Failure Tree w/ wind In-house Tree Tree out of ROW Lightning	0 0 11.63 2.06	Cust Caused Motor Vehicle Public Cut Tree Public Other	0.035 0 0 0
Equipment Failure Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion	0 0 0 0 0	Tree Failure Tree w/ wind In-house Tree Tree out of ROW Lightning Ice	0 0 11.63 2.06 23.3	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0.035 0 0 0 0
Equipment Failure Installation Fault Conductor Sag Overload Decay/Age Equip	0 0 0 0 0	Tree Failure Tree w/ wind In-house Tree Tree out of ROW Lightning	0 0 11.63 2.06	Cust Caused Motor Vehicle Public Cut Tree Public Other	0.035 0 0 0
Equipment Failure Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth 9. CIRCUIT 5 YEAR	0 0 0 0 0 0	Tree Failure Tree w/ wind In-house Tree Tree out of ROW Lightning Ice Small Animal	0 0 11.63 2.06 23.3	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0.035 0 0 0 0
Equipment Failure Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth	0 0 0 0 0 0 0 0 0 0 0	Tree Failure Tree w/ wind In-house Tree Tree out of ROW Lightning Ice Small Animal	0 0 11.63 2.06 23.3	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0.035 0 0 0 0
Equipment Failure Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth 9. CIRCUIT 5 YEAR 8.35 10. REPORTING YEA 41.11	0 0 0 0 0 AVERAGE AR (SAIDI)	Tree Failure Tree w/ wind In-house Tree Tree out of ROW Lightning Ice Small Animal (SAIDI)	0 0 11.63 2.06 23.3	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0.035 0 0 0 0
Equipment Failure Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth 9. CIRCUIT 5 YEAR 8.35 10. REPORTING YEA	0 0 0 0 0 AVERAGE AR (SAIDI)	Tree Failure Tree w/ wind In-house Tree Tree out of ROW Lightning Ice Small Animal (SAIDI)	0 0 11.63 2.06 23.3	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0.035 0 0 0 0

- 12. REPORTING YEAR (SAIFI)
 - 0.577
- 13. CORRECTIVE ACTION PLAN

Snow and ice was the largest cause.

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 NAM	-	MBER			
RECTORVILL			/ N I \		
2. SUBSTATION LOCA			(N)		
3. CIRCUIT NAME ANI	•				
3. CIRCOTT NAME AND Plumville (-	ĸ			
4. CIRCUIT LOCATION					
Plumville,					
5. TOTAL CIRCUIT LE	•				
76		====)			
6. CUSTOMER COUN	T FOR TH	IS CIRCUIT			
911					
7 DATE OF LAST CIF	RCUIT TRI	M (VM)			
2017					
8. LIST OUTAGE CAU	JSES FOR	CIRCUIT ALONG	NITH PER	CENTAGE OF TOTAL	OUTAGE
NUMBERS REPRE	SENTED E	BY FACH CAUSE			
Farriane ant Failure	0.07		4 00	Animal	0.0240
	0.87	Tree Failure	1.28	Animal	0.0316
Installation Fault	0.69	Tree Failure Tree w/ wind	0.43	Cust Caused	0.309
Installation Fault Conductor Sag	0.69 0	Tree Failure Tree w/ wind In-house Tree	0.43 0	Cust Caused Motor Vehicle	0.309 0
Installation Fault Conductor Sag Overload	0.69 0 0	Tree Failure Tree w/ wind In-house Tree Tree out of ROW	0.43 0 1.94	Cust Caused Motor Vehicle Public Cut Tree	0.309 0 0
Installation Fault Conductor Sag Overload Decay/Age Equip	0.69 0 0 0.032	Tree Failure Tree w/ wind In-house Tree Tree out of ROW Lightning	0.43 0	Cust Caused Motor Vehicle Public Cut Tree	0.309 0
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion	0.69 0 0 0.032	Tree Failure Tree w/ wind In-house Tree Tree out of ROW	0.43 0 1.94 2.518	Cust Caused Motor Vehicle Public Cut Tree Public Other	0.309 0 0 28.29
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion	0.69 0 0.032 0	Tree Failure Tree w/ wind In-house Tree Tree out of ROW Lightning Wind	0.43 0 1.94 2.518 0	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0.309 0 0 28.29 0.72
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion	0.69 0 0.032 0 1.196	Tree Failure Tree w/ wind In-house Tree Tree out of ROW Lightning Wind Small Animal	0.43 0 1.94 2.518 0	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0.309 0 0 28.29 0.72
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth 9. CIRCUIT 5 YEAR A 37.64	0.69 0 0.032 0 1.196	Tree Failure Tree w/ wind In-house Tree Tree out of ROW Lightning Wind Small Animal	0.43 0 1.94 2.518 0	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0.309 0 0 28.29 0.72
Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth 9. CIRCUIT 5 YEAR A	0.69 0 0.032 0 1.196	Tree Failure Tree w/ wind In-house Tree Tree out of ROW Lightning Wind Small Animal	0.43 0 1.94 2.518 0	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0.309 0 0 28.29 0.72

- 11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
 - 1.47
- 12. REPORTING YEAR (SAIFI) 0.47
- 13. CORRECTIVE ACTION PLAN

Public was the largest outage cause.

SECTION 5: CIRCUIT REPORTING

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1:

		JMBER			
Hillsbord					
2. SUBSTATION LOC	•		/N)		
-		′ 111, Hillsboro			
3. CIRCUIT NAME A					
-	ain OCR 22		5-1		
4. CIRCUIT LOCATIO	•		REA)		
-	Poplar Plain				
5. TOTAL CIRCUIT L	ENGTH (M	IILES)			
71.3					
6. CUSTOMER COU 430	NIFORIF				
7 DATE OF LAST C 2019					
				CENTAGE OF TOTAL	
			NITH PER	CENTAGE OF TOTAL	OUTAGE
		R CIRCUIT ALONG \ BY EACH CAUSE	NITH PER	CENTAGE OF TOTAL	. OUTAGE
NUMBERS REPR	ESENTED		NITH PER	CENTAGE OF TOTAL	OUTAGE
		BY EACH CAUSE			0
NUMBERS REPR Equipment Failure Installation Fault	ESENTED	BY EACH CAUSE Tree Failure	0	Animal	
NUMBERS REPR	ESENTED 0.046 0	BY EACH CAUSE Tree Failure Tree w/ wind	0 0 0	Animal Cust Caused	0 3.96
NUMBERS REPR Equipment Failure Installation Fault Conductor Sag Overload	ESENTED 0.046 0 0	BY EACH CAUSE Tree Failure Tree w/ wind In-house Tree Tree out of ROW	0 0 0	Animal Cust Caused Motor Vehicle	0 3.96 0
NUMBERS REPR Equipment Failure Installation Fault Conductor Sag	ESENTED 0.046 0 0 0 0.072	BY EACH CAUSE Tree Failure Tree w/ wind In-house Tree	0 0 0 0	Animal Cust Caused Motor Vehicle Public Cut Tree	0 3.96 0 0
NUMBERS REPR Equipment Failure Installation Fault Conductor Sag Overload Decay/Age Equip	ESENTED 0.046 0 0 0 0.072	BY EACH CAUSE Tree Failure Tree w/ wind In-house Tree Tree out of ROW Lightning	0 0 0 42.04	Animal Cust Caused Motor Vehicle Public Cut Tree Public Other	0 3.96 0 0 0
NUMBERS REPR Equipment Failure Installation Fault Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion	ESENTED 0.046 0 0 0.072 0	BY EACH CAUSE Tree Failure Tree w/ wind In-house Tree Tree out of ROW Lightning Ice	0 0 0 42.04 6.01	Animal Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 3.96 0 0 0 0.118

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

15.26

10. REPORTING YEAR (SAIDI)

63.22

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.697

- 12. REPORTING YEAR (SAIFI) 0.008
- 13. CORRECTIVE ACTION PLAN

Lightning. Will investigate lightning protection.

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1:

1. SUBSTATION NAM		JMBER			
Hillsbord					
2. SUBSTATION LOC			/N)		
3. CIRCUIT NAME A		11, Hillsboro			
	e OCR 214				
4. CIRCUIT LOCATIO					
	•	/Bath County			
5. TOTAL CIRCUIT L	-	-			
123.4)			
6. CUSTOMER COU	NT FOR TH	IS CIRCUIT			
573					
7 DATE OF LAST C	IRCUIT TR	IM (VM)			
2018					
			WITH PER	CENTAGE OF TOTAL	OUTAGE
NUMBERS REPR	ESENTED	BY EACH CAUSE			
Equipment Failure	6 91	Tree Failure	0	Animal	
		ilee i allule	U		Δ
Installation Fault	0 0405	Tree w/ wind	0		0
Installation Fault Conductor Sag			0 0	Cust Caused	0
Installation Fault Conductor Sag Overload	0.0405 0.063 0		0	Cust Caused Motor Vehicle	÷
Conductor Sag	0.063 0	In-house Tree	0	Cust Caused	0 0.085
Conductor Sag Overload	0.063 0 0	In-house Tree Tree out of ROW	0 0	Cust Caused Motor Vehicle Public Cut Tree	0 0.085 0
Conductor Sag Overload Decay/Age Equip	0.063 0 0	In-house Tree Tree out of ROW Lightning	0 0 0	Cust Caused Motor Vehicle Public Cut Tree Public Other	0 0.085 0 0
Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth	0.063 0 0 0 0	In-house Tree Tree out of ROW Lightning Ice Small Animal	0 0 0 45.12	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 0.085 0 0 0.6366
Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth 9. CIRCUIT 5 YEAR	0.063 0 0 0 0	In-house Tree Tree out of ROW Lightning Ice Small Animal	0 0 0 45.12	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 0.085 0 0 0.6366
Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth 9. CIRCUIT 5 YEAR 39.23	0.063 0 0 0 0 0 AVERAGE	In-house Tree Tree out of ROW Lightning Ice Small Animal	0 0 0 45.12	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 0.085 0 0 0.6366
Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth 9. CIRCUIT 5 YEAR 39.23 10. REPORTING YEA	0.063 0 0 0 0 0 AVERAGE	In-house Tree Tree out of ROW Lightning Ice Small Animal	0 0 0 45.12	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 0.085 0 0 0.6366
Conductor Sag Overload Decay/Age Equip Corrosion/Abrasion Tree Growth 9. CIRCUIT 5 YEAR 39.23	0.063 0 0 0 AVERAGE AR (SAIDI)	In-house Tree Tree out of ROW Lightning Ice Small Animal (SAIDI)	0 0 0 45.12	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 0.085 0 0 0.6366

- **1.28** 12. REPORTING YEAR (SAIFI)
 - 0.311
- 13. CORRECTIVE ACTION PLAN

Ice was largest cause.

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1:

1. SUBSTATION NAM	ME AND NU	IMBER			
Murphysvi	lle				
2. SUBSTATION LOC	CATION (CO	OUNTY-ROAD-TOW	/N)		
Mason Co	ounty, Mur	physville Rd			
3. CIRCUIT NAME A	ND NUMBE	R			
Strodes F	Run OCR 24	14			
4. CIRCUIT LOCATIO	ON (TOWN-	ROAD-GENERAL A	REA)		
Mason Co	ounty, Stro	des Run			
5. TOTAL CIRCUIT L	ENGTH (M	ILES)			
29.4					
6. CUSTOMER COU	NT FOR TH	IIS CIRCUIT			
104					
7 DATE OF LAST C	IRCUIT TR	IM (VM)			
2016					
8. LIST OUTAGE CA	USES FOR	R CIRCUIT ALONG \	NITH PER	CENTAGE OF TOTAL	OUTAGE
NUMBERS REPR	ESENTED I	BY EACH CAUSE			
Equipment Failure	0.331	Tree Failure	0	Animal	0
Installation Fault	0	Tree w/ Ice	0	Cust Caused	0
Conductor Sag	0	In-house Tree	0	Motor Vehicle	0
Overload	0	Tree out of ROW	9.93	Public Cut Tree	0
Decay/Age Equip	0	Lightning	0	Public Other	0.03
Tree Growth	0	Wind	0	Other	0
Tree w/ wind	0	Small Animal	0	Cause Unknown	0.28

- 9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
 - 3.09
- 10. REPORTING YEAR (SAIDI)

10.57

- 11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
 - 0.114
- 12. REPORTING YEAR (SAIFI)
 - 0.049
- 13. CORRECTIVE ACTION PLAN

Tree out of right of way is the largest cause. Will monitor danger trees.

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1:

1. SUBSTATION NAME AND NUMBER		
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)		
Fleming County, Energy Rd 3. CIRCUIT NAME AND NUMBER		
Toyoseat OCR 224		
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)		
KY 32, Flemingsburg		
5. TOTAL CIRCUIT LENGTH (MILES)		
10.4		
6. CUSTOMER COUNT FOR THIS CIRCUIT		
88		
7 DATE OF LAST CIRCUIT TRIM (VM)		
2020		
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERC	CENTAGE OF TOTAL	OUTAGE
NUMBERS REPRESENTED BY EACH CAUSE		
	Animal	0
	Animal Cust Caused	0 0
Equipment Failure 0 Tree Failure 0		-
Equipment Failure0Tree Failure0Installation Fault0Tree w/ Ice0Conductor Sag0In-house Tree0Overload0Tree out of ROW0	Cust Caused	0
Equipment Failure0Tree Failure0Installation Fault0Tree w/ Ice0Conductor Sag0In-house Tree0Overload0Tree out of ROW0Decay/Age Equip0Lightning0.256	Cust Caused Motor Vehicle Public Cut Tree Public Other	0 0 0 0
Equipment Failure0Tree Failure0Installation Fault0Tree w/ Ice0Conductor Sag0In-house Tree0Overload0Tree out of ROW0Decay/Age Equip0Lightning0.256Corrosion/Abrasion0Wind0.13	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 0 0 0 0
Equipment Failure0Tree Failure0Installation Fault0Tree w/ Ice0Conductor Sag0In-house Tree0Overload0Tree out of ROW0Decay/Age Equip0Lightning0.256	Cust Caused Motor Vehicle Public Cut Tree Public Other	0 0 0 0
Equipment Failure0Tree Failure0Installation Fault0Tree w/ Ice0Conductor Sag0In-house Tree0Overload0Tree out of ROW0Decay/Age Equip0Lightning0.256Corrosion/Abrasion0Wind0.13Tree w/ wind0Small Animal0.19	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 0 0 0 0
Equipment Failure0Tree Failure0Installation Fault0Tree w/ Ice0Conductor Sag0In-house Tree0Overload0Tree out of ROW0Decay/Age Equip0Lightning0.256Corrosion/Abrasion0Wind0.13Tree w/ wind0Small Animal0.199. CIRCUIT 5 YEAR AVERAGE (SAIDI)	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 0 0 0 0
Equipment Failure0Tree Failure0Installation Fault0Tree w/ Ice0Conductor Sag0In-house Tree0Overload0Tree out of ROW0Decay/Age Equip0Lightning0.256Corrosion/Abrasion0Wind0.13Tree w/ wind0Small Animal0.199. CIRCUIT 5 YEAR AVERAGE (SAIDI)0.46	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 0 0 0 0
Equipment Failure0Tree Failure0Installation Fault0Tree w/ Ice0Conductor Sag0In-house Tree0Overload0Tree out of ROW0Decay/Age Equip0Lightning0.256Corrosion/Abrasion0Wind0.13Tree w/ wind0Small Animal0.199. CIRCUIT 5 YEAR AVERAGE (SAIDI)	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 0 0 0 0
Equipment Failure0Tree Failure0Installation Fault0Tree w/ Ice0Conductor Sag0In-house Tree0Overload0Tree out of ROW0Decay/Age Equip0Lightning0.256Corrosion/Abrasion0Wind0.13Tree w/ wind0Small Animal0.199. CIRCUIT 5 YEAR AVERAGE (SAIDI)0.4610. REPORTING YEAR (SAIDI)	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 0 0 0 0
Equipment Failure0Tree Failure0Installation Fault0Tree w/ Ice0Conductor Sag0In-house Tree0Overload0Tree out of ROW0Decay/Age Equip0Lightning0.256Corrosion/Abrasion0Wind0.13Tree w/ wind0Small Animal0.199. CIRCUIT 5 YEAR AVERAGE (SAIDI)0.4610. REPORTING YEAR (SAIDI)0.48	Cust Caused Motor Vehicle Public Cut Tree Public Other Other	0 0 0 0 0

0.006

13. CORRECTIVE ACTION PLAN

Small number of outage of circuit. Will monitor for lightning protection.

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

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1:

MURPHYSVILLE 2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN) MASON, MURPHYSVILLE 3. CIRCUIT NAME AND NUMBER WEAVER RD OCR 214 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA) MAYSLICK, US 68 5. TOTAL CIRCUIT LENGTH (MILES) 83.7 6. CUSTOMER COUNT FOR THIS CIRCUIT 73 7. DATE OF LAST CIRCUIT TRIM (VM) 2015 8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE Equipment Failure 43.15 Tree Failure 0.762 Animal 0.051 Installation Fault 0 Conductor Sag 0.23 In-house Tree 0 Motor Vehicle 1.28 Overload 0 Tree out of ROW 0 Public Cut Tree 0 Decay/Age Equip 0 Lightning 2.56 Public Other 0 Tree Growth 0 Small Animal 1.26 Cause Unknown 2.22 9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 18.67 10. REPORTING YEAR (SAIDI) 53.48 11. CIRCUIT 5 YEAR AVERAGE (SAIFI)	1. SUBSTATION NAM		JMBER			
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		AR (SAIDI)				
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1.007						

- 12. REPORTING YEAR (SAIFI)
 - 0.319
- 13. CORRECTIVE ACTION PLAN

Equipment failure was the largest cause. Failed insulators.

Trimming Cycle - 8 years Spaying Cycle - 2 years