

A Touchstone Energy* Cooperative

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Public Service Commission

April 25, 2016

Public Service Commission P.O. Box 615 211 Sower Boulevard Frankfort, Kentucky 40602-0615

RE: Administrative Case No. 2011-00450

Enclosed is a paper copy of the 2015 electric distribution utility annual reliability report for Nolin RECC, as well as a copy of Nolin RECC's vegetation management program. Additionally, the enclosed flash disk contains electronic copies of these files.

Please let us know if there are any questions or concerns.

Regards,

Devon Woosley

Devon Wood

System Engineer/ SCADA Administrator

Enclosures

Kentucky Public Service Commission Electric Distribution Utility Annual Reliability Report

SECTION 1: CONTACT INFORMATION

UTILITY NAME:	Nolin RECC
REPORT PREPARED BY:	GDS Associates, Inc. D/B/A Hi-Line Engineering
E-MAIL ADDRESS OF PREPARER:	braxton.underwood@gdsassociates.com
PHONE NUMBER OF PREPARER:	770-425-8100
	SECTION 2: REPORTING YEAR
CALENDAR YEAR OF REPORT:	2015
<u>SEC</u>	TION 3: MAJOR EVENT DAYS (MED)
TMED:	9.34
FIRST DATE USED TO DETERMINE TMED:	1/1/2010
LAST DATE USED TO DETERMINE TMED:	12/31/2014
NUMBER OF MED IN REPORT YEAR:	0

NOTE: Per IEEE TMED 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 accumulated.

SECTION 4: SYSTEM RELIABILITY INFORMATION AND RESULTS

System-wide Information

TOTAL CUSTOMERS:	34,658		TOTAL CIRCUITS:	82
		Exclu	iding MED	
5-YEAR	AVERAGE (2010-2014)		REPORTING YEAR	
SAIDI:	84.491	SAIDI:	110.802	
SAIFI:	.906	SAIFI:	1.118	
		Inclu	iding MED	
5-YEAR	R AVERAGE (2010-2014)		REPORTING YEAR	
SAIDI:	118.712	SAIDI:	110.802	
SAIFI:	1.039	SAIFI:	1.118	

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 TMED.

CIRCUIT #1:		COLESBURG-1		
1. SUBSTATION NAME AND				
NUMBER:		COLESBURG 1		
2. SUBSTATION LOCATION		COLLSBOKG 1		
(COUNTY-ROAD-TOWN):	HARDIN	- HALL & BARDSTOWN RD YOUNGER C	REEK	
3. CIRCUIT NAME AND NUMBER:		COLESBURG-1		
4. CIRCUIT LOCATION (TOWN-				
ROAD-GENERAL AREA):	ELIZABETH	ITOWN, KY - YOUNGERS CREEK RD./ DEVI	ERS RD.	
5. TOTAL CIRCUIT LENGTH (MILES):		41.11		
6. CUSTOMER COUNT FOR THIS				
CIRCUIT:		398		
7. DATE OF LAST CIRCUIT TRIM				
(Month- YY):		January-13		
8. LIST OF OUTAGE(S):	OUTAG	E MINUTES (% OF TOTAL OUTAGE MINUT	ΓES):	
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER	10.52%	
EQUIPMENT / MATERIAL FAILURE	0.10%	SMALL ANIMALS OR BIRDS	0.00%	
LIGHTNING	2.35%	TREES	33.68%	
NO CAUSE CODE	0.00%	WIND, HIGH WIND	0.00%	
POWER SUPPLIER	50.02%	WEATHER _	3.34%	
_		_		
9. CIRCUIT 5 YEAR AVERAGE (SAIDI):		75.36		
10. REPORTING YEAR (SAIDI):		249.50		
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)		0.79		
12. REPORTING YEAR (SAIFI):		2.70		
13. LIST OF CORRECTIVE ACTION, IF	Nolin f	RECC to work with EKPC to review remedi	es for	
ANY, TAKEN OR TO BE TAKEN	I	ssion/substation reliability issues. Reviev		
	cor	nditions and vegetation management cyc	le.	
		<u> </u>		

CIRCUIT #2:		COLESBURG-2	_
1. SUBSTATION NAME AND			
NUMBER:		COLESBURG 1	
2. SUBSTATION LOCATION			
(COUNTY-ROAD-TOWN):	HARD	IN - HALL & BARDSTOWN RD YOUNGER C	REEK
3. CIRCUIT NAME AND NUMBER:		COLESBURG-2	
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA):	ELIZABE	THTOWN, KY - BARDSTOWN RD./ MOUNTA ESTATES RD.	IN VIEW
5. TOTAL CIRCUIT LENGTH (MILES):	-	13.35	
6. CUSTOMER COUNT FOR THIS			
CIRCUIT:		187	
7. DATE OF LAST CIRCUIT TRIM			
(Month- YY):		January-13	
8. LIST OF OUTAGE(S):	OUT	AGE MINUTES (% OF TOTAL OUTAGE MINU	ΓES):
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER _	0.00%
EQUIPMENT / MATERIAL FAILURE	0.00%	SMALL ANIMALS OR BIRDS _	0.00%
LIGHTNING	0.00%	_ TREES _	0.78%
NO CAUSE CODE	0.00%	_ WIND, HIGH WIND _	0.00%
POWER SUPPLIER	99.22%	WEATHER _	0.00%
9. CIRCUIT 5 YEAR AVERAGE (SAIDI):	10.67	
10. REPORTING YEAR (SAID!):		125.78	• "
11. CIRCUIT 5 YEAR AVERAGE (SAIF	I):	0.20	
12. REPORTING YEAR (SAIFI):		1.01	
13. LIST OF CORRECTIVE ACTION, I	F Noli	n RECC to work with EKPC to review remed	
ANY, TAKEN OR TO BE TAKEN		transmission/substation reliability issues.	

CIRCUIT #3:		COLESBURG-4	<u> </u>
1. SUBSTATION NAME AND			
NUMBER:		COLESBURG 1	
2. SUBSTATION LOCATION			
(COUNTY-ROAD-TOWN):	HARD	IN - HALL & BARDSTOWN RD YOUNGER C	REEK
3. CIRCUIT NAME AND NUMBER:		COLESBURG-4	
4. CIRCUIT LOCATION (TOWN-	ELIZA	BETHTOWN, KY - LOWER COLESBURG RD/B	ATTLE
ROAD-GENERAL AREA):	-	TRAINING RD, HAPPY HOLLOW RD	
5. TOTAL CIRCUIT LENGTH (MILES):		36.8	
6. CUSTOMER COUNT FOR THIS CIRCUIT:		213	
7. DATE OF LAST CIRCUIT TRIM		213	
(Month-YY):		January-13	
(June 1	
R LIST OF OUTACE(S).	OUT	ACE MAINUTES (OF OF TOTAL OUTLASE MAINU	TEC).
8. LIST OF OUTAGE(S): CONTRACTOR		AGE MINUTES (% OF TOTAL OUTAGE MINUTED ACCIDENTS OTHER	<u>-</u>
EQUIPMENT / MATERIAL FAILURE	0.00%	PUBLIC ACCIDENTS, OTHER	0.54%
LIGHTNING	1.99%	SMALL ANIMALS OR BIRDS	0.00%
	0.12%	TREES	20.68%
NO CAUSE CODE	1.92%	WIND, HIGH WIND	0.00%
POWER SUPPLIER	70.37%	_ WEATHER _	4.38%
9. CIRCUIT 5 YEAR AVERAGE (SAIDI):	43.21	
10. REPORTING YEAR (SAIDI):		177.36	
11. CIRCUIT 5 YEAR AVERAGE (SAIF):	0.62	
12. REPORTING YEAR (SAIFI):		2.08	
13. LIST OF CORRECTIVE ACTION, I	F Noli	n RECC to work with EKPC to review remed	ies for
ANY, TAKEN OR TO BE TAKEN		transmission/substation reliability issues.	

CIRCUIT #4:		ETOWN 1-4	
1. SUBSTATION NAME AND			
NUMBER:		ETOWN 1 2	
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN):		HARDIN - WOODLAND DR E-TOWN	
3. CIRCUIT NAME AND NUMBER:		ETOWN 1-4	
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA):		ELIZABETHTOWN, KY - E. NALLS RD.	
5. TOTAL CIRCUIT LENGTH (MILES):		2.25	
6. CUSTOMER COUNT FOR THIS CIRCUIT:		52	
7. DATE OF LAST CIRCUIT TRIM (Month- YY):		Мау-14	
8. LIST OF OUTAGE(S):	OUTA	AGE MINUTES (% OF TOTAL OUTAGE MINUT	ΓES):
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER	0.00%
EQUIPMENT / MATERIAL FAILURE	0.00%	SMALL ANIMALS OR BIRDS	0.00%
LIGHTNING	0.00%	TREES _	0.00%
NO CAUSE CODE	0.00%	WIND, HIGH WIND	0.00%
POWER SUPPLIER	100.00%	WEATHER _	0.00%
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)):	8.98	
10. REPORTING YEAR (SAIDI):		45.00	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI):	0.34	
12. REPORTING YEAR (SAIFI):		1.00	
13. LIST OF CORRECTIVE ACTION, II ANY, TAKEN OR TO BE TAKEN	- Nolir	n RECC to work with EKPC to review remedi transmission/substation reliability issues.	es for

CIRCUIT #5:		ETOWN 1-5	
1. SUBSTATION NAME AND			
NUMBER:		ETOWN 1 2	
2. SUBSTATION LOCATION		· · · · · · · · · · · · · · · · · · ·	
(COUNTY-ROAD-TOWN):		HARDIN - WOODLAND DR E-TOWN	
3. CIRCUIT NAME AND NUMBER:		ETOWN 1-5	
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA):	ELIZABE	THTOWN, KY - BYPASS/ BANKVIEW RD./ DIX FREEMAN LAKE PARK RD.	(IE RD./
5. TOTAL CIRCUIT LENGTH (MILES):		11.54	
6. CUSTOMER COUNT FOR THIS CIRCUIT:		527	
7. DATE OF LAST CIRCUIT TRIM (Month- YY):		January-14	
8. LIST OF OUTAGE(S):	OUTA	AGE MINUTES (% OF TOTAL OUTAGE MINUT	ΓES):
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER	0.00%
EQUIPMENT / MATERIAL FAILURE	17.71%	SMALL ANIMALS OR BIRDS	0.00%
LIGHTNING	0.12%	TREES	0.05%
NO CAUSE CODE	0.00%	WIND, HIGH WIND _	0.00%
POWER SUPPLIER	82.12%	WEATHER _	0.00%
9. CIRCUIT 5 YEAR AVERAGE (SAID):	87.70	
10. REPORTING YEAR (SAIDI):		54.80	
11. CIRCUIT 5 YEAR AVERAGE (SAIF	I):	0.62	
12. REPORTING YEAR (SAIFI):		1.14	
13. LIST OF CORRECTIVE ACTION, I ANY, TAKEN OR TO BE TAKEN	F Noli	n RECC to work with EKPC to review remedi transmission/substation reliability issues.	es for

	ETOWN 2-3	<u> </u>
	ETOWN 2 20	
	HARDIN - WOODLAND DR E-TOWN	
	ETOWN 2-3	
<u>ELIZABET</u>		<u>/ILLE RD.</u>
	7.34	
	298	
	July-12	
	-	
OUTA	GE MINUTES (% OF TOTAL OUTAGE MINUT	ΓES):
0.00%	PUBLIC ACCIDENTS, OTHER	0.00%
99.80%	SMALL ANIMALS OR BIRDS	0.13%
0.00%	TREES	0.00%
0.07%	WIND, HIGH WIND	0.00%
0.00%	WEATHER	0.00%
	_	
:	15.11	
-	99.92	
):	0.53	
	1.11	
: Feeder	inspection to identify equipment for maint	tenance.
)	OUTA 0.00% 99.80% 0.00% 0.07% 0.00%	HARDIN - WOODLAND DR E-TOWN ETOWN 2-3 ELIZABETHTOWN, KY - DEERFIELD HILLS RD./ RINEYV 7.34 298 July-12 OUTAGE MINUTES (% OF TOTAL OUTAGE MINUT 0.00% PUBLIC ACCIDENTS, OTHER 99.80% SMALL ANIMALS OR BIRDS 0.00% TREES 0.07% WIND, HIGH WIND 0.00% WEATHER 15.11 99.92): 0.53 1.11

		ETOWN 2-5	
1. SUBSTATION NAME AND			
NUMBER:		ETOWN 2 20	
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN):		HARDIN - WOODLAND DR E-TOWN	
3. CIRCUIT NAME AND NUMBER:		ETOWN 2-5	
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA):	ELIZAI	BETHTOWN, KY - RING RD./ PEACH ORCHAR	ID RD.
5. TOTAL CIRCUIT LENGTH (MILES):		20.28	
6. CUSTOMER COUNT FOR THIS	-		
CIRCUIT:		747	
7. DATE OF LAST CIRCUIT TRIM			
(Month- YY):		December-13	
8. LIST OF OUTAGE(S):	OUT	AGE MINUTES (% OF TOTAL OUTAGE MINU	TES):
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER	0.00%
EQUIPMENT / MATERIAL FAILURE	0.10%	SMALL ANIMALS OR BIRDS	0.00%
LIGHTNING	98.39%	TREES	0.00%
NO CAUSE CODE	1.51%	WIND, HIGH WIND	0.00%
POWER SUPPLIER	0.00%		0.00%
-	0.00,0	-	0.007.0
9. CIRCUIT 5 YEAR AVERAGE (SAID	l):	No History	
10. REPORTING YEAR (SAIDI):		74.76	
11. CIRCUIT 5 YEAR AVERAGE (SAIF	i):	No History	
12. REPORTING YEAR (SAIFI):		1.03	
13. LIST OF CORRECTIVE ACTION, I ANY, TAKEN OR TO BE TAKEN	F Identify	new surge arrestor placement opportunitie overvoltage protection.	s. Review
	L		

CIRCUIT #7:		SOUTH BOUNDARY-3		
1. SUBSTATION NAME AND		COLITIL DOLLARD LOVA		
NUMBER:		SOUTH BOUNDARY 14		
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN):		HARDIN - HWY 313 - RADCLIFF		
3. CIRCUIT NAME AND NUMBER:		SOUTH BOUNDARY-3		
4. CIRCUIT LOCATION (TOWN-	PADCHEE	KY - SOUTH BOUNDARY RD (N. OF SUB.) / A	LICTINI DD	
ROAD-GENERAL AREA):	RADCLIFF, I	/ SHELBY AVE	OSTIN DK	
5. TOTAL CIRCUIT LENGTH (MILES):		22.55		
6. CUSTOMER COUNT FOR THIS		-		
CIRCUIT:	_	768		
7. DATE OF LAST CIRCUIT TRIM		A		
(Month- YY):	April-15			
8. LIST OF OUTAGE(S):	OUTA	AGE MINUTES (% OF TOTAL OUTAGE MINUT	ES):	
CONTRACTOR	31.96%	PUBLIC ACCIDENTS, OTHER _	0.76%	
EQUIPMENT / MATERIAL FAILURE	44.45%	SMALL ANIMALS OR BIRDS	0.14%	
LIGHTNING	0.32%	TREES _	0.00%	
NO CAUSE CODE	22.37%	WIND, HIGH WIND	0.00%	
POWER SUPPLIER	0.00%	WEATHER _	0.00%	
9. CIRCUIT 5 YEAR AVERAGE (SAIDI):		36.68		
10. REPORTING YEAR (SAIDI):		31.55	•	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)		0.64		
12. REPORTING YEAR (SAIFI):		1.16	•	
13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN	Nolin	inspection to identify equipment for maint RECC to monitor contractor performance to utage contribution issues have been correct	insure	

CIRCUIT #8:		SOUTH BOUNDARY-4	
1. SUBSTATION NAME AND			
NUMBER:		SOUTH BOUNDARY 14	
2. SUBSTATION LOCATION		300111 BOOKBAKT 14	
(COUNTY-ROAD-TOWN):		HARDIN - HWY 313 - RADCLIFF	
3. CIRCUIT NAME AND NUMBER:		SOUTH BOUNDARY-4	
4. CIRCUIT LOCATION (TOWN-	RADCLII	FF, KY - SOUTH BOUNDARY RD (N. OF SUB.) / 7th
ROAD-GENERAL AREA):		ARMORED DIVISION RD	
5. TOTAL CIRCUIT LENGTH (MILES):		3.02	
6. CUSTOMER COUNT FOR THIS	-		
CIRCUIT:		239	
7. DATE OF LAST CIRCUIT TRIM			
(Month- YY):		April-15	
8. LIST OF OUTAGE(S):	OUTA	GE MINUTES (% OF TOTAL OUTAGE MINUT	ES):
CONTRACTOR	94.08%	PUBLIC ACCIDENTS, OTHER	0.00%
EQUIPMENT / MATERIAL FAILURE	3.83%	SMALL ANIMALS OR BIRDS	0.00%
LIGHTNING	0.00%	TREES	1.44%
NO CAUSE CODE	0.00%	WIND, HIGH WIND	0.00%
POWER SUPPLIER	0.64%	WEATHER	0.00%
_		-	
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)		20.56	
10. REPORTING YEAR (SAIDI):	•	19.64	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)	•	0.30	
12. REPORTING YEAR (SAIFI):	-	0.98	
12. KEI OKTING TEAK (SAITY).		0.30	
43 LICT OF CORRECTIVE ACTION IS	Natio f	0.500 to monitor control to monform the	. :
13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN	1	RECC to monitor contractor performance to tage contribution issues have been correct	
ANT, TAKEN ON TO BE TAKEN		tage continuation issues have been correct	cu.

CIRCUIT #9:	SOUTH	BOUNDARY-5	
1. SUBSTATION NAME AND			
NUMBER:		SOLITH BOLINDARY 14	
2. SUBSTATION LOCATION		SOUTH BOUNDARY 14	
(COUNTY-ROAD-TOWN):	UAD	IDIN - HWY 313 - RADCLIFF	
3. CIRCUIT NAME AND NUMBER:		SOUTH BOUNDARY-5	
4. CIRCUIT LOCATION (TOWN-		300TH BOUNDART-3	
ROAD-GENERAL AREA):	ELIZARETH'	TOWN, KY - BATTLE TRAINING RD	
5. TOTAL CIRCUIT LENGTH (MILES):	LLIZADLIII	13.98	<u>'</u>
6. CUSTOMER COUNT FOR THIS		15.96	
CIRCUIT:		242	
7. DATE OF LAST CIRCUIT TRIM			
(Month- YY):		January-15	
_			
8. LIST OF OUTAGE(S):	OUTAGE MINU	TES (% OF TOTAL OUTAGE MINUT	res).
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER	0.00%
EQUIPMENT / MATERIAL FAILURE	19.65%	SMALL ANIMALS OR BIRDS	0.00%
LIGHTNING	0.02%	TREES	47.66%
NO CAUSE CODE	2.12%	WIND, HIGH WIND	0.00%
POWER SUPPLIER	0.00%	WEATHER	0.55%
	0.00%	WEATHER -	0.55%
9. CIRCUIT 5 YEAR AVERAGE (SAIDI):		51.62	
10. REPORTING YEAR (SAID!):		140.16	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI):		0.68	
12. REPORTING YEAR (SAIFI):		2.62	
	 Feeder inspectio	n to identify equipment for main	enance
13. LIST OF CORRECTIVE ACTION, IF	,	ed recently to remedy tree related	
ANY, TAKEN OR TO BE TAKEN		nitor this feeder to make sure RO	_
,		have been corrected.	
			_

CIRCUIT #10:		GLENDALE-1	
1. SUBSTATION NAME AND			
NUMBER:		GLENDALE 3	
2. SUBSTATION LOCATION		-	
(COUNTY-ROAD-TOWN):	HARDI	N - E. GLENDALE HODGENVILLE RD - GLEN	DALE
3. CIRCUIT NAME AND NUMBER:		GLENDALE-1	
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA):	GLENDALE,	KY - W. GLENDALE HODGENVILLE RD / ML RD / ANDOVER RD	JD SPLASH
5. TOTAL CIRCUIT LENGTH (MILES):		9.54	
6. CUSTOMER COUNT FOR THIS CIRCUIT:		194	
7. DATE OF LAST CIRCUIT TRIM (Month- YY):		November-14	
8. LIST OF OUTAGE(S):	OUTA	GE MINUTES (% OF TOTAL OUTAGE MINU	TES):
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER	47.62%
EQUIPMENT / MATERIAL FAILURE	0.41%	SMALL ANIMALS OR BIRDS	0.00%
LIGHTNING	0.00%	TREES	0.00%
NO CAUSE CODE	0.00%	WIND, HIGH WIND	0.00%
POWER SUPPLIER	51.98%	WEATHER	0.00%
B CIDCUIT E VEAD AVEDAGE (CAIDI)		19.48	
 CIRCUIT 5 YEAR AVERAGE (SAIDI): REPORTING YEAR (SAIDI): 		78.49	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)		0.26	
12. REPORTING YEAR (SAIFI):	· -	1.99	
12. REPORTING TEAR (SAIFI).		1.55	
13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN		RECC to work with EKPC to review remed sion/substation reliability issues. Feeder i will identify areas for correction.	

CIRCUIT #11:		GLENDALE-2	
1. SUBSTATION NAME AND			
NUMBER:		GLENDALE 3	
2. SUBSTATION LOCATION			
(COUNTY-ROAD-TOWN):	HARDIN	I - E. GLENDALE HODGENVILLE RD - GLEN	DALE
3. CIRCUIT NAME AND NUMBER:		GLENDALE-2	
4. CIRCUIT LOCATION (TOWN-			
ROAD-GENERAL AREA):	GLENDALE,	KY - SPORTSMAN LAKE RD./ OVERALL PHI	LLIPS RD.
5. TOTAL CIRCUIT LENGTH (MILES):		42.2	
6. CUSTOMER COUNT FOR THIS			
CIRCUIT:		858	
7. DATE OF LAST CIRCUIT TRIM		N 1 44	
(Month- YY):		November-14	
8. LIST OF OUTAGE(S):	OUTAG	E MINUTES (% OF TOTAL OUTAGE MINU	TES):
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER	0.00%
EQUIPMENT / MATERIAL FAILURE	7.55%	SMALL ANIMALS OR BIRDS	0.25%
LIGHTNING	1.69%	TREES	32.97%
NO CAUSE CODE	4.07%	WIND, HIGH WIND	0.00%
POWER SUPPLIER	53.47%	WEATHER	0.01%
	_		
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)		84.35	
10. REPORTING YEAR (SAIDI):		76.31	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)	;	0.93	
12. REPORTING YEAR (SAIFI):	-	1,26	
, ,			
13. LIST OF CORRECTIVE ACTION, IF		RECC to work with EKPC to review remed	1
ANY, TAKEN OR TO BE TAKEN	transm	ission/substation reliability issues. Revie	
•	co	nditions and vegetation management cyc	ie.
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CIRCUIT #12:		GLENDALE-4	
1. SUBSTATION NAME AND			
NUMBER:		GLENDALE 3	
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN):	HARD	PIN - E. GLENDALE HODGENVILLE RD - GLEN	DALE
3. CIRCUIT NAME AND NUMBER:		GLENDALE-4	
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA):	GL	ENDALE, KY - ROUNDTOP RD./ LICOLN PKW	M
5. TOTAL CIRCUIT LENGTH (MILES):		54.31	
6. CUSTOMER COUNT FOR THIS CIRCUIT:		474	
7. DATE OF LAST CIRCUIT TRIM (Month- YY):		February-15	
8. LIST OF OUTAGE(S):	OUTA	AGE MINUTES (% OF TOTAL OUTAGE MINUT	ΓES):
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER	0.23%
EQUIPMENT / MATERIAL FAILURE	10.76%	SMALL ANIMALS OR BIRDS	0.00%
LIGHTNING	3.87%	TREES	0.00%
NO CAUSE CODE	0.51%	WIND, HIGH WIND	0.00%
POWER SUPPLIER	84.63%	WEATHER _	0.00%
9. CIRCUIT 5 YEAR AVERAGE (SAID): 	66.77	
10. REPORTING YEAR (SAIDI):		48.21	
11. CIRCUIT 5 YEAR AVERAGE (SAIF	I):	0.79	
12. REPORTING YEAR (SAIFI):		1.14	
13. LIST OF CORRECTIVE ACTION, I ANY, TAKEN OR TO BE TAKEN	F Noli	n RECC to work with EKPC to review remedi transmission/substation reliability issues.	
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CIRCUIT #13:		GLENDALE-5	
1. SUBSTATION NAME AND			
NUMBER:		GLENDALE 3	
2. SUBSTATION LOCATION			
(COUNTY-ROAD-TOWN):	HARD	IN - E. GLENDALE HODGENVILLE RD - GLEN	DALE
3. CIRCUIT NAME AND NUMBER:		GLENDALE-5	
4. CIRCUIT LOCATION (TOWN-	SONORA, I	(Y - HWY 31 W (SOUTH)/ NOLIN RD / SONC	RA NOLIN
ROAD-GENERAL AREA):		RD	
5. TOTAL CIRCUIT LENGTH (MILES):		29.43	
6. CUSTOMER COUNT FOR THIS			
CIRCUIT:			
7. DATE OF LAST CIRCUIT TRIM		January 15	
(Month- YY):		January-15	
8. LIST OF OUTAGE(S):	OUTA	AGE MINUTES (% OF TOTAL OUTAGE MINU	ΓES):
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER	0.00%
EQUIPMENT / MATERIAL FAILURE	2.21%	SMALL ANIMALS OR BIRDS	8.17%
LIGHTNING	16.63%	TREES	4.54%
NO CAUSE CODE	0.00%	WIND, HIGH WIND	0.00%
POWER SUPPLIER	68.45%	WEATHER	0.00%
		- -	
9. CIRCUIT 5 YEAR AVERAGE (SAIDI);	61.99	
10. REPORTING YEAR (SAIDI):		59.61	
11. CIRCUIT 5 YEAR AVERAGE (SAIF):	0.66	
12. REPORTING YEAR (SAIFI):	, <u> </u>	1.25	
,			
13. LIST OF CORRECTIVE ACTION, II	E Noi:	n RECC to work with EKPC to review remed	ios for
ANY, TAKEN OR TO BE TAKEN	- Nom	transmission/substation reliability issues.	
. arry man on to be made		transmission, substitution reliability issues.	
		<u> </u>	

	HODGENVILLE-4	
	HODGENVILLE 4	
-		
LARU	E - HWY 31E (NEAR WADDELL RD)- HODGEN	VILLE
	HODGENVILLE-4	
HODG	ENVILLE, KY - OLD ELIZABETHTOWN RD./ CA	ARTER
· · · · · · · · · · · · · · · · · · ·	BROTHERS RD.	
	26.8	
	341	
· · · · · · · · · · · · · · · · · · ·	January-13	
оит	AGE MINUTES (% OF TOTAL OUTAGE MINU	ΓES):
0.00%	PUBLIC ACCIDENTS, OTHER	96.90%
1.25%	SMALL ANIMALS OR BIRDS	0.00%
1.21%	TREES	0.00%
0.65%	WIND, HIGH WIND	0.00%
0.00%	WEATHER	0.00%
	-	
n:	31.79	
•	48.16	
i):	0.57	
'		
Fee	eder inspection will identify areas for correc	tion.
	OUT/ 0.00% 1.25% 1.21% 0.65% 0.00%	HODGENVILLE 4 LARUE - HWY 31E (NEAR WADDELL RD)- HODGEN HODGENVILLE-4 HODGENVILLE, KY - OLD ELIZABETHTOWN RD./ CABROTHERS RD. 26.8 341 January-13 OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTOUS OUTAGE

CIRCUIT #15:		HODGENVILLE-5	
1. SUBSTATION NAME AND			
NUMBER:		HODGENVILLE 4	
2. SUBSTATION LOCATION			
(COUNTY-ROAD-TOWN):	LARUE	- HWY 31E (NEAR WADDELL RD)- HODGEN	IVILLE
3. CIRCUIT NAME AND NUMBER:		HODGENVILLE-5	
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA):	HODGEN	VILLE, KY - CARTER BROTHERS RD./ DAN DI	JNN RD.
5. TOTAL CIRCUIT LENGTH (MILES):		61.58	
6. CUSTOMER COUNT FOR THIS			_
CIRCUIT:		437	
7. DATE OF LAST CIRCUIT TRIM			
(Month- YY):		September-14	
8. LIST OF OUTAGE(S):	OUTA	GE MINUTES (% OF TOTAL OUTAGE MINU	TES):
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER	44.70%
EQUIPMENT / MATERIAL FAILURE	0.00%	SMALL ANIMALS OR BIRDS	0.00%
LIGHTNING	14.35%	TREES	40.67%
NO CAUSE CODE	0.28%	WIND, HIGH WIND	0.00%
POWER SUPPLIER	0.00%	WEATHER T	0.00%
_		_	
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)	:	35.20	
10. REPORTING YEAR (SAIDI):		43.55	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)	<u></u>	0.43	
12. REPORTING YEAR (SAIFI):		0.33	
,			
13. LIST OF CORRECTIVE ACTION, IF	Feeder	inspection will identify areas for correction	Poviow
ANY, TAKEN OR TO BE TAKEN		V conditions and vegetation management	
,			-,

CIRCUIT #16:		KARGLE-3	
1. SUBSTATION NAME AND		KADOLE 15	
NUMBER:		KARGLE 15	
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN):	L.	IARDIN - AUTO GLASS DR - ELIZABETHTOWI	NI .
3. CIRCUIT NAME AND NUMBER:		KARGLE-3	•
4. CIRCUIT LOCATION (TOWN-	ELIZARET	THTOWN, KY - AUTO GLASS DR -AT AGC Aut	tomotive
ROAD-GENERAL AREA):	LLIZADL	Americas	JUIOLIVE
5. TOTAL CIRCUIT LENGTH (MILES):		0.01	
6. CUSTOMER COUNT FOR THIS			
CIRCUIT:		1	
7. DATE OF LAST CIRCUIT TRIM			
(Month-YY):		N/A	
8. LIST OF OUTAGE(S):	OUT	AGE MINUTES (% OF TOTAL OUTAGE MINU	TES):
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER	100.00%
EQUIPMENT / MATERIAL FAILURE	0.00%	SMALL ANIMALS OR BIRDS	0.00%
LIGHTNING	0.00%	TREES	0.00%
NO CAUSE CODE	0.00%	WIND, HIGH WIND	0.00%
POWER SUPPLIER	0.00%	WEATHER	0.00%
9. CIRCUIT 5 YEAR AVERAGE (SAID)):	No History	
10. REPORTING YEAR (SAIDI):		582.00	
11. CIRCUIT 5 YEAR AVERAGE (SAIF	1):	No History	
12. REPORTING YEAR (SAIFI):		1.00	
13. LIST OF CORRECTIVE ACTION, I	F Outa	ge cause resolved with impacted customer	on this
ANY, TAKEN OR TO BE TAKEN		dedicated feeder.	

CIRCUIT #17:		LOGSDON-3	
1. SUBSTATION NAME AND			
NUMBER:		LOGSDON 18	
2. SUBSTATION LOCATION			
(COUNTY-ROAD-TOWN):	HAF	RDIN - HILL ST (NEAR ETHAN CT) - VINE GRO	<u>VE</u>
3. CIRCUIT NAME AND NUMBER:		LOGSDON-3	
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA):	RADCLIFI	F, KY -W. CROCUS DR / ELM RD / N LOGSDO	N PKWY
5. TOTAL CIRCUIT LENGTH (MILES):		15.02	
6. CUSTOMER COUNT FOR THIS CIRCUIT:		1005	
7. DATE OF LAST CIRCUIT TRIM (Month- YY):		January-15	
8. LIST OF OUTAGE(S):	OUTA	AGE MINUTES (% OF TOTAL OUTAGE MINU	ΓES):
CONTRACTOR	35.57%	PUBLIC ACCIDENTS, OTHER	0.00%
EQUIPMENT / MATERIAL FAILURE	5.86%	SMALL ANIMALS OR BIRDS	25.22%
LIGHTNING	20.99%	TREES	12.35%
NO CAUSE CODE	0.00%	WIND, HIGH WIND _	0.00%
POWER SUPPLIER	0.00%	WEATHER _	0.00%
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)	:	25.48	
10. REPORTING YEAR (SAIDI):		28.25	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI);	0.32	
12. REPORTING YEAR (SAIFI):		0.65	
13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN	outage	RECC to monitor contractor performance to e contribution issues have been corrected. ction will identify areas to mitigate animal outages.	Feeder

		LOGSDON-4	
1. SUBSTATION NAME AND			
NUMBER:		LOGSDON 18	
2. SUBSTATION LOCATION			
(COUNTY-ROAD-TOWN):	HAI	RDIN - HILL ST (NEAR ETHAN CT) - VINE GRO	VE
3. CIRCUIT NAME AND NUMBER:		LOGSDON-4	
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA):	RADCLIFF,	KY - VINELAND CENTER DR /, HILL ST /, MAI AIRPORT RD	VLEY AVE /
5. TOTAL CIRCUIT LENGTH (MILES):		9.09	
6. CUSTOMER COUNT FOR THIS CIRCUIT:		435	
7. DATE OF LAST CIRCUIT TRIM			
(Month- YY):		March-15	
8. LIST OF OUTAGE(S):	OUT	AGE MINUTES (% OF TOTAL OUTAGE MINU	ΓES):
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER	54.24%
EQUIPMENT / MATERIAL FAILURE	0.00%	SMALL ANIMALS OR BIRDS	0.00%
LIGHTNING	0.00%	TREES	0.00%
NO CAUSE CODE	45.76%	WIND, HIGH WIND	0.00%
POWER SUPPLIER	0.00%	WEATHER	0.00%
9. CIRCUIT 5 YEAR AVERAGE (SAID	ı):	18.26	
10. REPORTING YEAR (SAIDI):		69.55	
11. CIRCUIT 5 YEAR AVERAGE (SAIF	1):	0.28	
12. REPORTING YEAR (SAIFI):		0.79	
13. LIST OF CORRECTIVE ACTION,	IF Feeder	inspection will identify areas for correction	ı. Feeder
ANY, TAKEN OR TO BE TAKEN		inspection will identify areas for correction	1.

CIRCUIT #19:		LOGSDON-5	
1. SUBSTATION NAME AND			
NUMBER:		LOGSDON 18	
2. SUBSTATION LOCATION			
(COUNTY-ROAD-TOWN):	HAI	RDIN - HILL ST (NEAR ETHAN CT) - VINE GRO	VE
3. CIRCUIT NAME AND NUMBER:		LOGSDON-5	
4. CIRCUIT LOCATION (TOWN-			
ROAD-GENERAL AREA):	RA	DCLIFF, KY - W. VINE ST./ S. LOGSDON PKW	<u>'Y</u>
5. TOTAL CIRCUIT LENGTH (MILES):		7.3	
6. CUSTOMER COUNT FOR THIS			
CIRCUIT:		513	
7. DATE OF LAST CIRCUIT TRIM (Month- YY):		March-15	
(Worker 11).	-	IAIGICI-13	
8. LIST OF OUTAGE(S):		AGE MINUTES (% OF TOTAL OUTAGE MINUT	•
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER _	0.88%
EQUIPMENT / MATERIAL FAILURE	90.12%	SMALL ANIMALS OR BIRDS _	0.33%
LIGHTNING	6.39%	TREES _	1.92%
NO CAUSE CODE	0.13%	WIND, HIGH WIND _	0.00%
POWER SUPPLIER	0.24%	. WEATHER _	0.00%
9. CIRCUIT 5 YEAR AVERAGE (SAIDI):	22.36	
10. REPORTING YEAR (SAIDI):		34.63	
11. CIRCUIT 5 YEAR AVERAGE (SAIF):	0.31	
12. REPORTING YEAR (SAIFI):		0.35	
13. LIST OF CORRECTIVE ACTION, I ANY, TAKEN OR TO BE TAKEN	F Feeder	inspection to identify equipment for maint	enance.

	MAGNOLIA-1	
	MAGNOLIA 5	
	LARUE - NEW JACKSON HWY - MAGNOLIA	
	MAGNOLIA-1	
MAGNOLI	A, KY- JE JONES RD, MT SHERMAN, BAILEY :	X-ROADS,
	MT TABOR RD, HWY 210, HWY 61.	<u> </u>
	107.19	
	980	
	January-16	
OUTA	GE MINUTES (% OF TOTAL OUTAGE MINU	TES):
0.00%	PUBLIC ACCIDENTS, OTHER	2.57%
29.67%	SMALL ANIMALS OR BIRDS	44.52%
1.53%	TREES	20.66%
0.00%	WIND, HIGH WIND	1.06%
0.00%	WEATHER	0.00%
	-	
١.	126.48	
·	-	
<u></u>		
.): 		
	2.31	
-	•	
	OUTA 0.00% 29.67% 1.53% 0.00% 0.00%	MAGNOLIA 5 LARUE - NEW JACKSON HWY - MAGNOLIA MAGNOLIA-1 MAGNOLIA, KY- JE JONES RD, MT SHERMAN, BAILEY MT TABOR RD, HWY 210, HWY 61. 107.19 980 January-16 OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTOLOGY OUTAGE MINUT

CIRCUIT #21:	MAGNOLIA-4		
1. SUBSTATION NAME AND NUMBER:		MAGNOLIA 5	
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN): 3. CIRCUIT NAME AND NUMBER:		LARUE - NEW JACKSON HWY - MAGNOLIA MAGNOLIA-4	
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA):	•	(Y - OAK HILL RD TO BRASHEARS RD, NEW ORTH OF SUBSTATION, HAWKINS RD, SONO SIBERIA RD, MURRIELTOWN RD.	
5. TOTAL CIRCUIT LENGTH (MILES):		77.19	
6. CUSTOMER COUNT FOR THIS CIRCUIT:		493	
7. DATE OF LAST CIRCUIT TRIM (Month- YY):		August-15	
8. LIST OF OUTAGE(S): CONTRACTOR EQUIPMENT / MATERIAL FAILURE LIGHTNING NO CAUSE CODE POWER SUPPLIER	OUTA 0.00% 33.26% 23.51% 0.00% 2.06%	GE MINUTES (% OF TOTAL OUTAGE MINU PUBLIC ACCIDENTS, OTHER SMALL ANIMALS OR BIRDS TREES WIND, HIGH WIND	TES): 15.74% 1.71% 23.73% 0.00% 0.00%
 9. CIRCUIT 5 YEAR AVERAGE (SAIDI) 10. REPORTING YEAR (SAIDI): 11. CIRCUIT 5 YEAR AVERAGE (SAIFI) 12. REPORTING YEAR (SAIFI): 		35.21 75.15 0.59 0.70	
13. LIST OF CORRECTIVE ACTION, I ANY, TAKEN OR TO BE TAKEN	F Circuit w	inspection to identify equipment for main as trimmed recently to remedy tree relate. ECC to monitor this feeder to make sure RC have been corrected.	d outages.

CIRCUIT #43:		RADCLIFF-2	
1. SUBSTATION NAME AND NUMBER:		RADCLIFF 10	,
2. SUBSTATION LOCATION		THE SELECT TO	.
(COUNTY-ROAD-TOWN):	HARDIN	- HILL ST (NEAR W. LINCOLN TRAIL BLVD) - F	RADCLIFF
3. CIRCUIT NAME AND NUMBER:		RADCLIFF-2	
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA):	VINE GRO	OVE, KY - KNOX AVE, WEST SIDE OF SAFARI HILL RD TO GERONIMO CIR, DITTO LN.	TRL, RED
5. TOTAL CIRCUIT LENGTH (MILES):		22.04	
6. CUSTOMER COUNT FOR THIS CIRCUIT:		422	
7. DATE OF LAST CIRCUIT TRIM (Month- YY):		April-13	
8. LIST OF OUTAGE(S):	OUT	AGE MINUTES (% OF TOTAL OUTAGE MINU	ΓES):
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER	68.07%
EQUIPMENT / MATERIAL FAILURE	21.03%	SMALL ANIMALS OR BIRDS	0.00%
LIGHTNING	0.32%	TREES	0.00%
NO CAUSE CODE	0.00%	WIND, HIGH WIND	0.00%
POWER SUPPLIER	0.00%	WEATHER _	10.57%
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)	:	99.00	
10. REPORTING YEAR (SAIDI):		114.73	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI):	1.23	
12. REPORTING YEAR (SAIFI):		1.17	
13. LIST OF CORRECTIVE ACTION, II ANY, TAKEN OR TO BE TAKEN	Fee	eder inspection will identify areas for correc	etion.
EQUIPMENT / MATERIAL FAILURE LIGHTNING NO CAUSE CODE POWER SUPPLIER 9. CIRCUIT 5 YEAR AVERAGE (SAIDI): 10. REPORTING YEAR (SAIDI): 11. CIRCUIT 5 YEAR AVERAGE (SAIFI): 12. REPORTING YEAR (SAIFI):	21.03% 0.32% 0.00% 0.00%	SMALL ANIMALS OR BIRDS TREES WIND, HIGH WIND WEATHER 99.00 114.73 1.23 1.17	0.00 0.00 0.00 10.5

CIRCUIT #22:		RINEYVILLE-3	
1. SUBSTATION NAME AND			
NUMBER:		RINEYVILLE 21	
2. SUBSTATION LOCATION		THIRL I VILLE 2.2	
(COUNTY-ROAD-TOWN):		HARDIN - OWSLEY RD - RINEYVILLE	
3. CIRCUIT NAME AND NUMBER:		RINEYVILLE-3	
4. CIRCUIT LOCATION (TOWN-	RINEYVILL	E, KY - BERRYTOWN RD, RINEYVILLE BIG SPF	RINGS RD,
ROAD-GENERAL AREA):		RINEYVILLE SCHOOL RD.	
5. TOTAL CIRCUIT LENGTH (MILES):		20.19	
6. CUSTOMER COUNT FOR THIS			
CIRCUIT:		449	
7. DATE OF LAST CIRCUIT TRIM		Danashan 45	
(Month-YY):		December-15	
8. LIST OF OUTAGE(S):	OUTA	AGE MINUTES (% OF TOTAL OUTAGE MINUT	TES):
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER	0.00%
EQUIPMENT / MATERIAL FAILURE	0.40%	SMALL ANIMALS OR BIRDS	3.85%
LIGHTNING	0.00%	TREES	0.00%
NO CAUSE CODE	95.75%	WIND, HIGH WIND	0.00%
POWER SUPPLIER	0.00%	WEATHER	0.00%
		·	_
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)	:	1.52	
10. REPORTING YEAR (SAIDI):		87.93	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)	:	0.02	
12. REPORTING YEAR (SAIFI):		1.03	
13. LIST OF CORRECTIVE ACTION, IF	_		
ANY, TAKEN OR TO BE TAKEN	Fee	der inspection will identify areas for correc	tion.
]
		-	

	RINEYVILLE-4	
	RINEYVILLE 21	
	HARDIN - OWSLEY RD - RINEYVILLE	
	RINEYVILLE-4	
RINEYVILL	.E, KY - BERRYTOWN RD./ BLUE BALL RD., SA	LT RIVER
	RD.	
	50.26	
	391	
	May 15	
	iviay-15	
OUT	AGE MINUTES (% OF TOTAL OUTAGE MINUT	TES):
0.00%	PUBLIC ACCIDENTS, OTHER	0.17%
0.45%	SMALL ANIMALS OR BIRDS	0.00%
2.71%	TREES	0.00%
95.31%	WIND, HIGH WIND	0.00%
0.00%	WEATHER	1.37%
	_	
ı):	100.03	
•	89.54	
1):	0.73	
•	1.09	
Fee	eder inspection will identify areas for correc	tion.
	OUT/ 0.00% 0.45% 2.71% 95.31% 0.00%	HARDIN - OWSLEY RD - RINEYVILLE

CIRCUIT #24:		RINEYVILLE-5	
1. SUBSTATION NAME AND		DIMENO (ILLE DA	
NUMBER: 2. SUBSTATION LOCATION		RINEYVILLE 21	
(COUNTY-ROAD-TOWN):		HARDIN - OWSLEY RD - RINEYVILLE	
3. CIRCUIT NAME AND NUMBER:		RINEYVILLE-5	
4. CIRCUIT LOCATION (TOWN-	DINEVUI		
ROAD-GENERAL AREA):		.LE, KY - OWSLEY RD, RINEYVILLE RD, HARG PICKERELL LN, BENNET RD, BLACKBURN RD	•
5. TOTAL CIRCUIT LENGTH (MILES):		28.6	
6. CUSTOMER COUNT FOR THIS	•	20.0	
CIRCUIT:		504	
7. DATE OF LAST CIRCUIT TRIM			
(Month- YY):		October-13	
8. LIST OF OUTAGE(S):	OUT	AGE MINUTES (% OF TOTAL OUTAGE MINU	res):
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER	50.69%
EQUIPMENT / MATERIAL FAILURE	2.00%	SMALL ANIMALS OR BIRDS	0.00%
LIGHTNING	0.22%	TREES	0.00%
NO CAUSE CODE	42.58%	WIND, HIGH WIND	0.00%
POWER SUPPLIER	0.00%	WEATHER	4.51%
-	0.0070	_	1102,0
O CIDCULT T VEAD AVEDAGE (CAID!		64.60	
9. CIRCUIT 5 YEAR AVERAGE (SAID!)	:	61.68	
10. REPORTING YEAR (SAIDI):		197.28	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI):	0.34	
12. REPORTING YEAR (SAIFI):		2.76	1
			T.
13. LIST OF CORRECTIVE ACTION, II	Feeder	inspection will identify areas for correction	T I
ANY, TAKEN OR TO BE TAKEN		inspection will identify areas for correction	l .

CIRCUIT #25:		STEPHENSBURG-1	
1 CLIDCTATION NAME AND			
1. SUBSTATION NAME AND NUMBER:		STEPHENSBURG 6	
2. SUBSTATION LOCATION		STEPHENSBORG 0	
(COUNTY-ROAD-TOWN):		HARDIN-LEITCHFIELD RD-STEPHENSBURG	
3. CIRCUIT NAME AND NUMBER:		STEPHENSBURG-1	
4. CIRCUIT LOCATION (TOWN-	GLENDAL	E, KY - STAR MILLS EASTVIEW RD, BACON C	REEK RD,
ROAD-GENERAL AREA):	HWY	222, CECILIA SMITH MILL RD, PARTRIDGE V	VAY.
5. TOTAL CIRCUIT LENGTH (MILES):		41.57	
6. CUSTOMER COUNT FOR THIS			
CIRCUIT:		401	
7. DATE OF LAST CIRCUIT TRIM			
(Month-YY):		December-14	
8. LIST OF OUTAGE(S):	OUTA	AGE MINUTES (% OF TOTAL OUTAGE MINU	TES):
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER	0.08%
EQUIPMENT / MATERIAL FAILURE	0.90%	SMALL ANIMALS OR BIRDS	0.00%
LIGHTNING	0.54%	TREES	35.83%
NO CAUSE CODE	0.03%	WIND, HIGH WIND	0.00%
POWER SUPPLIER	62.63%	WEATHER	0.00%
_		-	
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)	:	55.14	
10. REPORTING YEAR (SAIDI):		343.29	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI	·	0.86	
12. REPORTING YEAR (SAIFI):		2.90	
` ,		 	
13. LIST OF CORRECTIVE ACTION, IF	Noli	n RECC to work with EKPC to review remed	ies for
ANY, TAKEN OR TO BE TAKEN	110.11	transmission/substation reliability issues.	
•		,	
		• 11	

CIRCUIT #26:		STEPHENSBURG-2	
1. SUBSTATION NAME AND			
NUMBER:		STEPHENSBURG 6	
2. SUBSTATION LOCATION		3121112/13/20/10 0	
(COUNTY-ROAD-TOWN):		HARDIN-LEITCHFIELD RD-STEPHENSBURG	
3. CIRCUIT NAME AND NUMBER:		STEPHENSBURG-2	
4. CIRCUIT LOCATION (TOWN-			
ROAD-GENERAL AREA):	WH	IITE HILLS, KY - SONORA HARDIN SPRINGS R	D.
5. TOTAL CIRCUIT LENGTH (MILES):		46.37	
6. CUSTOMER COUNT FOR THIS			
CIRCUIT:		259	
7. DATE OF LAST CIRCUIT TRIM		Danaushan 14	
(Month- YY):	-	December-14	
8. LIST OF OUTAGE(S):	OUTA	AGE MINUTES (% OF TOTAL OUTAGE MINUT	TES):
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER _	0.13%
EQUIPMENT / MATERIAL FAILURE	0.10%	SMALL ANIMALS OR BIRDS	0.14%
LIGHTNING	1.49%	TREES	1.60%
NO CAUSE CODE	0.10%	WIND, HIGH WIND	0.00%
POWER SUPPLIER	96.45%	WEATHER _	0.00%
9. CIRCUIT 5 YEAR AVERAGE (SAIDI):	64.42	
10. REPORTING YEAR (SAIDI):		215.24	
11. CIRCUIT 5 YEAR AVERAGE (SAIF	1):	1.12	
12. REPORTING YEAR (SAIFI):		2.07	
13. LIST OF CORRECTIVE ACTION, I	F Nolii	n RECC to work with EKPC to review remedi	es for
ANY, TAKEN OR TO BE TAKEN		transmission/substation reliability issues.	
			_

CIRCUIT #27:		STEPHENSBURG-3	
4 (11007171011111111111111111111111111111			
1. SUBSTATION NAME AND NUMBER:		CTCDUENCOLIDO C	
2. SUBSTATION LOCATION		STEPHENSBURG 6	
(COUNTY-ROAD-TOWN):		HARDIN-LEITCHFIELD RD-STEPHENSBURG	
3. CIRCUIT NAME AND NUMBER:		STEPHENSBURG-3	
4. CIRCUIT LOCATION (TOWN-	STEPHI	ENSBERG, KY - LEITCHFIELD RD./ SONORA H	ARDIN
ROAD-GENERAL AREA):		SPRINGS RD./ WEBB MILLS RD.	
5. TOTAL CIRCUIT LENGTH (MILES):		69.62	
6. CUSTOMER COUNT FOR THIS			-
CIRCUIT:		554	
7. DATE OF LAST CIRCUIT TRIM		5	
(Month- YY):		December-14	
8. LIST OF OUTAGE(S):	OUT	AGE MINUTES (% OF TOTAL OUTAGE MINU	ΓES):
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER	0.00%
EQUIPMENT / MATERIAL FAILURE	0.13%	SMALL ANIMALS OR BIRDS	0.00%
LIGHTNING	11.23%	TREES	10.47%
NO CAUSE CODE	0.04%	WIND, HIGH WIND	0.00%
POWER SUPPLIER	78.12%	WEATHER _	0.00%
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)	• •	51.69	
10. REPORTING YEAR (SAIDI):		265.75	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI		0.76	
12. REPORTING YEAR (SAIFI):		2.44	
13. LIST OF CORRECTIVE ACTION, IF	Noli	n RECC to work with EKPC to review remed	ies for
ANY, TAKEN OR TO BE TAKEN		transmission/substation reliability issues.	
		•	
		··· · · · · · · · · · · · · · · · · ·	

CIRCUIT #28:		STEPHENSBURG-4	
4 CHOCTATION NAME AND			
1. SUBSTATION NAME AND NUMBER:		STEPHENSBURG 6	
2. SUBSTATION LOCATION		31EFTIENSBORG 0	
(COUNTY-ROAD-TOWN):		HARDIN-LEITCHFIELD RD-STEPHENSBURG	
3. CIRCUIT NAME AND NUMBER:		STEPHENSBURG-4	
4. CIRCUIT LOCATION (TOWN-			
ROAD-GENERAL AREA):	EASTVIEW	, KY - SONORA HARDIN SPRINGS RD./ EAST	VIEW RD.
5. TOTAL CIRCUIT LENGTH (MILES):		74.89	
6. CUSTOMER COUNT FOR THIS			
CIRCUIT:		573	
7. DATE OF LAST CIRCUIT TRIM			
(Month- YY):		December-14	
8. LIST OF OUTAGE(S):	OUTA	GE MINUTES (% OF TOTAL OUTAGE MINU	ΓES):
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER	0.00%
EQUIPMENT / MATERIAL FAILURE	0.04%	SMALL ANIMALS OR BIRDS	0.77%
LIGHTNING	1.48%	TREES	9.06%
NO CAUSE CODE	17.42%	WIND, HIGH WIND	0.00%
POWER SUPPLIER	48.92%	WEATHER	22.31%
_		_	
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)	:	60.52	
10. REPORTING YEAR (SAIDI):		424.33	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI	:	0.95	
12. REPORTING YEAR (SAIFI):	•	3.62	
	Nolir	RECC to work with EKPC to review remed	ios for
13. LIST OF CORRECTIVE ACTION, IF		nsmission/substation reliability issues. Rev	
ANY, TAKEN OR TO BE TAKEN		alizing on feeder to minimize number of cu	
•		impacted by equipment operations.	

CIRCUIT #29:		STEPHENSBURG-5	
4 CURCUATION NAME AND			
1. SUBSTATION NAME AND NUMBER:		CTEDUENCE: IDC C	
2. SUBSTATION LOCATION		STEPHENSBURG 6	
(COUNTY-ROAD-TOWN):		HARDIN-LEITCHFIELD RD-STEPHENSBURG	
3. CIRCUIT NAME AND NUMBER:		STEPHENSBURG-5	
4. CIRCUIT LOCATION (TOWN-		STEP HEROBORG 5	•
ROAD-GENERAL AREA):	STEP	HENSBURG, KY - EASTVIEW RD./ NACKE PIKE	RD.
5. TOTAL CIRCUIT LENGTH (MILES):		71.45	
6. CUSTOMER COUNT FOR THIS			
CIRCUIT:		605	
7. DATE OF LAST CIRCUIT TRIM			
(Month- YY):		December-14	
8. LIST OF OUTAGE(S):	OUT	AGE MINUTES (% OF TOTAL OUTAGE MINUT	ES):
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER	2.04%
EQUIPMENT / MATERIAL FAILURE	4.83%	SMALL ANIMALS OR BIRDS	1.92%
LIGHTNING	0.04%	TREES	0.17%
NO CAUSE CODE	0.00%	WIND, HIGH WIND	0.00%
POWER SUPPLIER	89.16%	WEATHER	1.83%
-		_	
9. CIRCUIT 5 YEAR AVERAGE (SAIDI	١.	43.62	
10. REPORTING YEAR (SAIDI):	,·	232.83	
11. CIRCUIT 5 YEAR AVERAGE (SAIF	1.	0.64	 ,
12. REPORTING YEAR (SAIFI):	·	2.25	
12. KEFOKTING TEAK (SAITY.		2,23	
			_
13. LIST OF CORRECTIVE ACTION, I	F Noli	n RECC to work with EKPC to review remedi	es for
ANY, TAKEN OR TO BE TAKEN		transmission/substation reliability issues.	

		THARP-3	
1. SUBSTATION NAME AND			
NUMBER:		THARP 12	
2. SUBSTATION LOCATION		WARRING OF LOUISING STOWN	
(COUNTY-ROAD-TOWN): 3. CIRCUIT NAME AND NUMBER:		HARDIN - ST. JOHN RD ETOWN	
4. CIRCUIT LOCATION (TOWN-	-	THARP-3	
ROAD-GENERAL AREA):	ELI	ZABETHTOWN, KY - SAINT JOHN RD./ RING	RD.
5. TOTAL CIRCUIT LENGTH (MILES):		2.43	_
6. CUSTOMER COUNT FOR THIS CIRCUIT:			-
7. DATE OF LAST CIRCUIT TRIM		13	
(Month- YY):		May-15	
,			
8. LIST OF OUTAGE(S):	OUT.	AGE MINUTES (% OF TOTAL OUTAGE MINU	TES):
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER	0.00%
EQUIPMENT / MATERIAL FAILURE	76.98%	SMALL ANIMALS OR BIRDS	0.00%
LIGHTNING	0.00%	TREES -	0.00%
NO CAUSE CODE	0.00%	WIND, HIGH WIND	23.02%
POWER SUPPLIER	0.00%	WEATHER _	0.00%
			
9. CIRCUIT 5 YEAR AVERAGE (SAID):	50.31	
10. REPORTING YEAR (SAIDI):		89.82	
11. CIRCUIT 5 YEAR AVERAGE (SAIF	I):	1.05	
12. REPORTING YEAR (SAIFI):		1.31	
13. LIST OF CORRECTIVE ACTION, I ANY, TAKEN OR TO BE TAKEN	F Feede	r inspection to identify equipment for main	tenance.
			,

CIRCUIT #31:		TUNNEL HILL 1-1	
1. SUBSTATION NAME AND			
NUMBER:		TUNNEL HILL 1 11	
2. SUBSTATION LOCATION			
(COUNTY-ROAD-TOWN):		HARDIN - TUNNEL HILL RD E-TOWN	
3. CIRCUIT NAME AND NUMBER:		TUNNEL HILL 1-1	
4. CIRCUIT LOCATION (TOWN-			
ROAD-GENERAL AREA):	ELIZA	BETHTOWN, KY - DOLPHIN RD./ COMMERC	E_DR.
5. TOTAL CIRCUIT LENGTH (MILES):		7.46	
6. CUSTOMER COUNT FOR THIS			
CIRCUIT: 7. DATE OF LAST CIRCUIT TRIM		437	
(Month- YY):		March-13	
(Marie 17)		Widter 25	
O LICTOR OUTLOCKS	01177	OF 141111756 (0) OF TOTAL OLIVERS	
8. LIST OF OUTAGE(S): CONTRACTOR		AGE MINUTES (% OF TOTAL OUTAGE MINUT	•
EQUIPMENT / MATERIAL FAILURE	0.00%	PUBLIC ACCIDENTS, OTHER _ SMALL ANIMALS OR BIRDS	0.00%
LIGHTNING	59.77%	TREES	0.00%
NO CAUSE CODE	0.06% 40.17%		0.00%
POWER SUPPLIER	-	WIND, HIGH WIND _ WEATHER	0.00%
	0.00%	WEATHER _	0.00%
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)	:	80.06	
10. REPORTING YEAR (SAIDI):		135.52	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI):	0.37	
12. REPORTING YEAR (SAIFI):	<u></u>	2.29	
			j
			1
13. LIST OF CORRECTIVE ACTION, II	I	inspection to identify equipment for maint	
ANY, TAKEN OR TO BE TAKEN	Fee	der inspection will identify areas for correc	tion.

CIRCUIT #32:		TUNNEL HILL 1-2	
1. SUBSTATION NAME AND NUMBER:		TUNNEL HILL 1 11	
2. SUBSTATION LOCATION		TOTALL TILL I	
(COUNTY-ROAD-TOWN):		HARDIN - TUNNEL HILL RD E-TOWN	
3. CIRCUIT NAME AND NUMBER:		TUNNEL HILL 1-2	
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA):	ELIZABETH	TOWN, KY - TUNNEL HILL RD, RING RD, BO	N AIRE DR
5. TOTAL CIRCUIT LENGTH (MILES):		7.41	
6. CUSTOMER COUNT FOR THIS CIRCUIT:		708	
7. DATE OF LAST CIRCUIT TRIM			
(Month- YY):		April-13	
8. LIST OF OUTAGE(S):	OUT	AGE MINUTES (% OF TOTAL OUTAGE MINUT	ΓES):
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER	0.14%
EQUIPMENT / MATERIAL FAILURE	0.18%	SMALL ANIMALS OR BIRDS	0.00%
LIGHTNING	0.04%	TREES	0.00%
NO CAUSE CODE	99.64%	WIND, HIGH WIND	0.00%
POWER SUPPLIER	0.00%	WEATHER	0.00%
9. CIRCUIT 5 YEAR AVERAGE (SAIDI):	10.83	
10. REPORTING YEAR (SAIDI):		140.90	
11. CIRCUIT 5 YEAR AVERAGE (SAIF):	0.23	
12. REPORTING YEAR (SAIFI):		1.02	
13. LIST OF CORRECTIVE ACTION, I ANY, TAKEN OR TO BE TAKEN	F Fee	eder inspection will identify areas for correc	tion.

CIRCUIT #33:	TUNNEL HILL 1-4	
1. SUBSTATION NAME AND		
NUMBER:	TUNNEL HILL 1 11	
2. SUBSTATION LOCATION	HARDINI TUNNICI IIII DD. C TOWN	
(COUNTY-ROAD-TOWN):	HARDIN - TUNNEL HILL RD E-TOWN	
3. CIRCUIT NAME AND NUMBER:	TUNNEL HILL 1-4	
4. CIRCUIT LOCATION (TOWN-		
ROAD-GENERAL AREA):	ELIZABETHTOWN, KY - TUNNEL HILL RD, RING RD, FIN	ANCIAL DR
5. TOTAL CIRCUIT LENGTH (MILES):	2.26	
6. CUSTOMER COUNT FOR THIS		
CIRCUIT:	57	
7. DATE OF LAST CIRCUIT TRIM		
(Month- YY):	August-13	
8. LIST OF OUTAGE(S):	OUTAGE MINUTES (% OF TOTAL OUTAGE MINU	TES):
CONTRACTOR	0.00% PUBLIC ACCIDENTS, OTHER	100.00%
EQUIPMENT / MATERIAL FAILURE —	0.00% SMALL ANIMALS OR BIRDS	0.00%
LIGHTNING	0.00% TREES	0.00%
NO CAUSE CODE	0.00% WIND, HIGH WIND	0.00%
POWER SUPPLIER		
	0.00% WEATHER	0.00%
9. CIRCUIT 5 YEAR AVERAGE (SAIDI):	No History	
10. REPORTING YEAR (SAIDI):	4.06	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)	: No History	
12. REPORTING YEAR (SAIFI):	0.04	
	•	
13. LIST OF CORRECTIVE ACTION, IF		
ANY, TAKEN OR TO BE TAKEN	Feeder inspection will identify areas for correct	ction.
ATT, TAKEN ON TO BE TAKEN	1	

CIRCUIT #34:		TUNNEL HILL 2-4	<u> </u>
1. SUBSTATION NAME AND			
NUMBER:		TUNNEL HILL 2 19	
2. SUBSTATION LOCATION			
(COUNTY-ROAD-TOWN):		HARDIN - TUNNEL HILL RD E-TOWN	
3. CIRCUIT NAME AND NUMBER:	_	TUNNEL HILL 2-4	
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA):		THTOWN, KY - OLD TUNNEL HILL RD, WOOI FELIX CT, TUNNEL HILL RD, BLUE GRASS RD	DEN LN,
5. TOTAL CIRCUIT LENGTH (MILES):		15.27	
6. CUSTOMER COUNT FOR THIS CIRCUIT:		555	
7. DATE OF LAST CIRCUIT TRIM (Month- YY):		December-15	
8. LIST OF OUTAGE(S):	OUTA	AGE MINUTES (% OF TOTAL OUTAGE MINU	TES):
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER	0.00%
EQUIPMENT / MATERIAL FAILURE	1.67%	SMALL ANIMALS OR BIRDS	57.43%
LIGHTNING	19.59%	TREES	9.75%
NO CAUSE CODE	11.56%	WIND, HIGH WIND	0.00%
POWER SUPPLIER	0.00%	WEATHER	0.00%
-		_	0.0070
9. CIRCUIT 5 YEAR AVERAGE (SAIDI	1.	60.59	
10. REPORTING YEAR (SAIDI):	·	20.18	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI	٠		
•	<i>]</i> :	0.44	_ -
12. REPORTING YEAR (SAIFI):		0.46	
13. LIST OF CORRECTIVE ACTION, II ANY, TAKEN OR TO BE TAKEN	cause	er inspection will identify areas to mitigate d outages. Identify new surge arrestor plac apportunities. Review overvoltage protection	cement

CIRCUIT #35:		UPTON-2	_
1. SUBSTATION NAME AND			
NUMBER:		UPTON 7	
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN):		HARDIN - MILERSTOWN RD UPTON	
3. CIRCUIT NAME AND NUMBER:	-	UPTON-2	
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA):	•	Y - MILLERSTOWN RD, AKERS SCHOOL RD, ELINT HILL RD, RAIDER HOLLOW RD, WAX RE	•
5. TOTAL CIRCUIT LENGTH (MILES):		46.28	
6. CUSTOMER COUNT FOR THIS CIRCUIT:		348	
7. DATE OF LAST CIRCUIT TRIM (Month- YY):		August-15	
8. LIST OF OUTAGE(S):	OUT	AGE MINUTES (% OF TOTAL OUTAGE MINU	TES):
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER	0.33%
EQUIPMENT / MATERIAL FAILURE	0.20%	SMALL ANIMALS OR BIRDS	0.00%
LIGHTNING	0.39%	TREES	0.06%
NO CAUSE CODE	0.36%	WIND, HIGH WIND	98.67%
POWER SUPPLIER	0.00%	WEATHER _	0.00%
9. CIRCUIT 5 YEAR AVERAGE (SAIDI)	:	32.61	
10. REPORTING YEAR (SAIDI):		113.47	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)):	0.65	
12. REPORTING YEAR (SAIFI):		0.98	
13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN	Feeder	inspection will identify areas to mitigate win outages.	nd caused

CIRCUIT #36:		VERTREES-1	
1. SUBSTATION NAME AND NUMBER:		VERTREES 8	
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN):		HARDIN - SALT RIVER RD VERTREES	
3. CIRCUIT NAME AND NUMBER: 4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA):	VEDTO	VERTREES-1	
5. TOTAL CIRCUIT LENGTH (MILES):	VERIK	EES, KY - HARDINSBURG RD./ CONSTANTIN 45.32	IE RD.
6. CUSTOMER COUNT FOR THIS CIRCUIT:			
7. DATE OF LAST CIRCUIT TRIM (Month- YY):	_	April-12	
8. LIST OF OUTAGE(S):	OUTA	GE MINUTES (% OF TOTAL OUTAGE MINU	TEC).
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER	0.03%
EQUIPMENT / MATERIAL FAILURE	23.25%	SMALL ANIMALS OR BIRDS	0.00%
LIGHTNING	1.71%	TREES	22.37%
NO CAUSE CODE	2.09%	WIND, HIGH WIND	12.38%
POWER SUPPLIER	37.18%	WEATHER	1.00%
9. CIRCUIT 5 YEAR AVERAGE (SAIDI):		167.01	
10. REPORTING YEAR (SAIDI):		414.78	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)	:	0.85	
12. REPORTING YEAR (SAIFI):		5.63	
13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN		n RECC to work with EKPC to review remed ssion/substation reliability issues. Feeder i to identify equipment for maintenance.	

CIRCUIT #37:		VERTREES-2	
1. SUBSTATION NAME AND NUMBER:		VERTREES 8	
2. SUBSTATION LOCATION		VENTREES 6	
(COUNTY-ROAD-TOWN):		HARDIN - SALT RIVER RD VERTREES	
3. CIRCUIT NAME AND NUMBER:		VERTREES-2	
4. CIRCUIT LOCATION (TOWN-		···	
ROAD-GENERAL AREA):	VE	RTREES, KY - SALT RIVER RD./ SAINT JOHN R	D
5. TOTAL CIRCUIT LENGTH (MILES):		60.62	
6. CUSTOMER COUNT FOR THIS		450	
CIRCUIT: 7. DATE OF LAST CIRCUIT TRIM		452	
(Month- YY):		April-12	
(11.51.61.1.1.7)	-		
O LICT OF OUTA CE/CV	OUT	ACT MAINUITES 194 OF TOTAL OUTAGE MAINUIT	-rc)
8. LIST OF OUTAGE(S): CONTRACTOR		AGE MINUTES (% OF TOTAL OUTAGE MINUT	•
EQUIPMENT / MATERIAL FAILURE	0.00% 0.45%	PUBLIC ACCIDENTS, OTHER _ SMALL ANIMALS OR BIRDS	0.08% 6.34%
LIGHTNING	5.40%	TREES	0.12%
NO CAUSE CODE	1.10%	. WIND, HIGH WIND	0.12%
POWER SUPPLIER	79.09%	WEATHER	7.41%
-	73.0370	· WEATTEN _	7.4170
9. CIRCUIT 5 YEAR AVERAGE (SAID)): 	170.76	
10. REPORTING YEAR (SAIDI):		194.96	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI):	0.71	
12. REPORTING YEAR (SAIFI):		2.29	
			l l
13. LIST OF CORRECTIVE ACTION, I	- Noli	n RECC to work with EKPC to review remedi	es for
ANY, TAKEN OR TO BE TAKEN		transmission/substation reliability issues.	

CIRCUIT #38:		VERTREES-4	
1. SUBSTATION NAME AND			
NUMBER:		VERTREES 8	
2. SUBSTATION LOCATION			,
(COUNTY-ROAD-TOWN):		HARDIN - SALT RIVER RD VERTREES	
3. CIRCUIT NAME AND NUMBER:		VERTREES-4	
4. CIRCUIT LOCATION (TOWN-			
ROAD-GENERAL AREA):	VERTR	EES, KY - HARDINSBURG RD./ LONG GROV	E RD.
5. TOTAL CIRCUIT LENGTH (MILES):		41.82	
6. CUSTOMER COUNT FOR THIS CIRCUIT:		492	
7. DATE OF LAST CIRCUIT TRIM			
(Month- YY):		April-12	
8. LIST OF OUTAGE(S):	OUTA	GE MINUTES (% OF TOTAL OUTAGE MINU	ΓES):
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER	47.61%
EQUIPMENT / MATERIAL FAILURE	5.09%	SMALL ANIMALS OR BIRDS	0.07%
LIGHTNING	11.20%	TREES	2.87%
NO CAUSE CODE	0.04%	WIND, HIGH WIND	0.00%
POWER SUPPLIER	31.03%	WEATHER _	2.08%
9. CIRCUIT 5 YEAR AVERAGE (SAIDI):		163.52	
10. REPORTING YEAR (SAIDI):		496.89	
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)	:	0.68	
12. REPORTING YEAR (SAIFI):		4.91	
13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN		inspection will identify areas for correction ECC to work with EKPC to review remedies transmission/substation reliability issues.	for

CIRCUIT #39:	VERTREES-5			
1. SUBSTATION NAME AND				
NUMBER:		VERTREES 8		
2. SUBSTATION LOCATION		-		
(COUNTY-ROAD-TOWN):		HARDIN - SALT RIVER RD VERTREES		
3. CIRCUIT NAME AND NUMBER:		VERTREES-5		
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA):	EAST VIEV	N, KY - SALT RIVER RD., LAUREL RIDGE RD., HARDIN SPRINGS RD., RIDGE TOP LN.	SONORA	
5. TOTAL CIRCUIT LENGTH (MILES):		70.85		
6. CUSTOMER COUNT FOR THIS CIRCUIT:		477		
7. DATE OF LAST CIRCUIT TRIM (Month- YY):	_	March-16		
8. LIST OF OUTAGE(S):	OUTA	AGE MINUTES (% OF TOTAL OUTAGE MINUT	ΓES):	
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER	0.00%	
EQUIPMENT / MATERIAL FAILURE	0.31%	SMALL ANIMALS OR BIRDS	0.08%	
LIGHTNING	2.29%	TREES	23.20%	
NO CAUSE CODE	10.09%	WIND, HIGH WIND	0.00%	
POWER SUPPLIER	50.71%	WEATHER _	13.33%	
9. CIRCUIT 5 YEAR AVERAGE (SAIDI):		167.78		
10. REPORTING YEAR (SAIDI):		304.06		
11. CIRCUIT 5 YEAR AVERAGE (SAIFI):		1.18		
12. REPORTING YEAR (SAIFI):		2.59		
13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN	tran trimmed	n RECC to work with EKPC to review remed smission/substation reliability issues. Circu I recently to remedy tree related outages. N itor this feeder to make sure ROW issues he corrected.	it was Jolin RECC	

	VINE GROVE-1	
	VINE GROVE 9	
	HARDIN - ROGERSVILLE RD VINE GROVE	
	VINE GROVE-1	
VINE GR	OVE, KY - ROGERSVILLE RD., CRUME RD., D	UGGIN
S\	VITCH RD., SAINT ANDREWS DR., FORT AVE	
	25.19	
	524	
	534	
	Mav-13	
-	, ==	-
OUT	ACE MAINWATES 107 OF TOTAL OUTAGE MAINWA	rc).
	•	•
		0.00%
	-	0.00%
	-	0.15%
	·	0.00%
0.00%	WEATHER _	6.64%
):	136.38	
	138.86	
l):	1.64	
	2.02	
_ '	-	
	OUTA 0.00% 0.27% 59.28% 33.66% 0.00%	VINE GROVE 9 HARDIN - ROGERSVILLE RD VINE GROVE VINE GROVE-1 VINE GROVE, KY - ROGERSVILLE RD., CRUME RD., D SWITCH RD., SAINT ANDREWS DR., FORT AVE 25.19 534 May-13 OUTAGE MINUTES (% OF TOTAL OUTAGE MINUT 0.00% PUBLIC ACCIDENTS, OTHER 0.27% SMALL ANIMALS OR BIRDS 59.28% TREES 33.66% WIND, HIGH WIND 0.00% WEATHER 136.38 138.86 1): 1.64 2.02 Identify new surge arrestor placement opportunitie overvoltage protection. Feeder inspection will iden

CIRCUIT #44:		VINE GROVE-7	
1. SUBSTATION NAME AND NUMBER:		VINE GROVE 9	
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN):		HARDIN - ROGERSVILLE RD VINE GROVE	
3. CIRCUIT NAME AND NUMBER:		VINE GROVE-7	
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA):		ROVE, KY - DECKARD SCHOOL RD TO COUN JRNS RD, DUGGIN SWITCH RD, VILLA RAY D	-
5. TOTAL CIRCUIT LENGTH (MILES):		16.85	
6. CUSTOMER COUNT FOR THIS CIRCUIT:		285	
7. DATE OF LAST CIRCUIT TRIM (Month- YY):		April-13	
8. LIST OF OUTAGE(S):	OUTA	AGE MINUTES (% OF TOTAL OUTAGE MINU	TES):
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER	0.05%
EQUIPMENT / MATERIAL FAILURE	15.82%	SMALL ANIMALS OR BIRDS	0.00%
LIGHTNING	0.00%	TREES	0.26%
NO CAUSE CODE	1.67%	WIND, HIGH WIND	0.00%
POWER SUPPLIER	0.00%	WEATHER	82.21%
9. CIRCUIT 5 YEAR AVERAGE (SAIDI	١٠	134.06	
10. REPORTING YEAR (SAIDI):	,	134.78	
11. CIRCUIT 5 YEAR AVERAGE (SAIF):	1.23	
12. REPORTING YEAR (SAIFI):	•	0.52	-
13. LIST OF CORRECTIVE ACTION, I ANY, TAKEN OR TO BE TAKEN		w sectionalizing on feeder to minimize nun ustomers impacted by equipment operatio	

CIRCUIT #45:		WILLIAMS-1	
1. SUBSTATION NAME AND			
NUMBER:		WILLIAMS 16	
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN):	-	HARDIN - BARDSTOWN RD E-TOWN	
3. CIRCUIT NAME AND NUMBER:		WILLIAMS-1	
4. CIRCUIT LOCATION (TOWN-		WILLIAMO T	
ROAD-GENERAL AREA):	ELIZA	BETHTOWN, KY - BARDSTOWN RD./ LINCOL	N RD.
5. TOTAL CIRCUIT LENGTH (MILES):		30.43	
6. CUSTOMER COUNT FOR THIS			
CIRCUIT:		816	
7. DATE OF LAST CIRCUIT TRIM		December 12	
(Month- YY):		December-13	
8. LIST OF OUTAGE(S):		AGE MINUTES (% OF TOTAL OUTAGE MINU	•
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER	0.00%
EQUIPMENT / MATERIAL FAILURE	0.50%	SMALL ANIMALS OR BIRDS	0.00%
LIGHTNING	1.94%	TREES _	2.75%
NO CAUSE CODE	0.06%	WIND, HIGH WIND _	0.00%
POWER SUPPLIER	94.49%	- WEATHER _	0.27%
9. CIRCUIT 5 YEAR AVERAGE (SAID):	49.94	
10. REPORTING YEAR (SAIDI):		298.45	
11. CIRCUIT 5 YEAR AVERAGE (SAIF	I):	0.69	
12. REPORTING YEAR (SAIFI):		1.12	
13. LIST OF CORRECTIVE ACTION, I	E Noli	n RECC to work with EKPC to review remed	ies for
ANY, TAKEN OR TO BE TAKEN	. ""	transmission/substation reliability issues.	
,		,	
		<u> </u>	

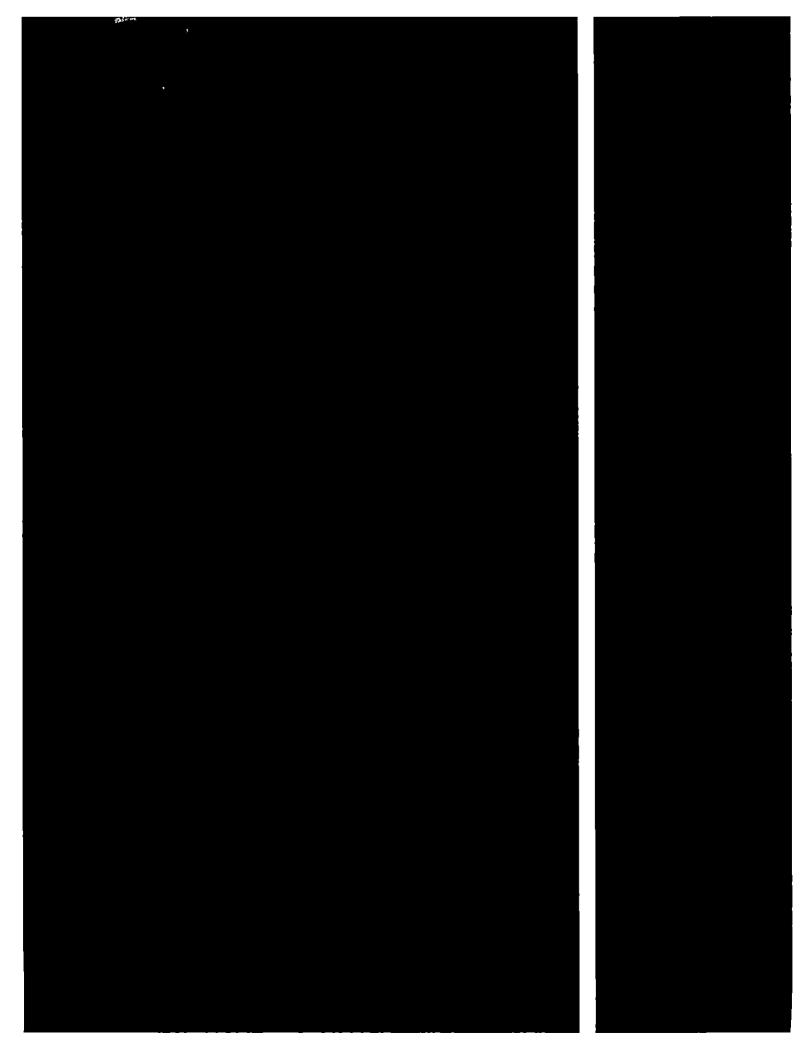
CIRCUIT #46:		WILLIAMS-2	
4 CLIPCTATION NAME AND			
1. SUBSTATION NAME AND NUMBER:		WILLIAMS 16	
2. SUBSTATION LOCATION	-	WILLIAMS TO	<u>-</u>
(COUNTY-ROAD-TOWN):		HARDIN - BARDSTOWN RD E-TOWN	
3. CIRCUIT NAME AND NUMBER:	•	WILLIAMS-2	
4. CIRCUIT LOCATION (TOWN-			
ROAD-GENERAL AREA):		ELIZABETHTOWN, KY - TO BARDSTOWN RD	
5. TOTAL CIRCUIT LENGTH (MILES):		0.21	
6. CUSTOMER COUNT FOR THIS			
CIRCUIT:		1	
7. DATE OF LAST CIRCUIT TRIM			
(Month- YY):		December-13	
8. LIST OF OUTAGE(S):	OUT	AGE MINUTES (% OF TOTAL OUTAGE MINU	ΓES):
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER	0.00%
EQUIPMENT / MATERIAL FAILURE	0.00%	SMALL ANIMALS OR BIRDS	0.00%
LIGHTNING	0.00%	TREES	0.00%
NO CAUSE CODE	0.00%	WIND, HIGH WIND	0.00%
POWER SUPPLIER	100.00%	WEATHER	0.00%
-		-	
9. CIRCUIT 5 YEAR AVERAGE (SAID	١.	No History	
10. REPORTING YEAR (SAIDI):	<i></i>	282.00	
11. CIRCUIT 5 YEAR AVERAGE (SAIF			
12. REPORTING YEAR (SAIFI):	····	No History 1.00	
12. REPORTING TEAR (SAIFI).		1.00	
13. LIST OF CORRECTIVE ACTION, I	F Noli	n RECC to work with EKPC to review remed	es for
ANY, TAKEN OR TO BE TAKEN		transmission/substation reliability issues.	

CIRCUIT #41:		WILLIAMS-3		
1. SUBSTATION NAME AND NUMBER:		WILLIAMS 16		
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN):	-	HARDIN - BARDSTOWN RD E-TOWN		
CIRCUIT NAME AND NUMBER: CIRCUIT LOCATION (TOWN-		WILLIAMS-3 ELIZABETHTOWN, KY - SPRINGFIELD RD, LOCUST GROVE RD, MIDDLE CREEK RD, FORD HWY, VALLEY CREEK RD, MILLER RD,		
ROAD-GENERAL AREA): 5. TOTAL CIRCUIT LENGTH (MILES):		HILLCREEK DR, BARDSTOWN RD 71.32		
6. CUSTOMER COUNT FOR THIS CIRCUIT:	-	1124		
7. DATE OF LAST CIRCUIT TRIM (Month- YY):		December-13		
8. LIST OF OUTAGE(S):	OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES):			
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER	2.45%	
EQUIPMENT / MATERIAL FAILURE LIGHTNING	23.90% 0.49%	SMALL ANIMALS OR BIRDS _ TREES	12.74% 0.36%	
NO CAUSE CODE	0.00%	- WIND, HIGH WIND	0.00%	
POWER SUPPLIER	58.42%	WEATHER	1.64%	
9. CIRCUIT 5 YEAR AVERAGE (SAIDI):		68.40		
10. REPORTING YEAR (SAIDI):		482.73		
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)	:	0.78	 ,	
12. REPORTING YEAR (SAIFI):		3.15		
13. LIST OF CORRECTIVE ACTION, IF ANY, TAKEN OR TO BE TAKEN	I	n RECC to work with EKPC to review remedission/substation reliability issues. Feeder in to identify equipment for maintenance.	i i	

CIRCUIT #47:		WILLIAMS-4			
1. SUBSTATION NAME AND					
NUMBER:		WILLIAMS 16			
2. SUBSTATION LOCATION					
(COUNTY-ROAD-TOWN):		HARDIN - BARDSTOWN RD E-TOWN			
3. CIRCUIT NAME AND NUMBER:		WILLIAMS-4			
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA):	ELIZABETH	ELIZABETHTOWN, KY - BARDSTOWN RD, N. MULBERRY ST EAST OF 1-65, BETH CT,			
5. TOTAL CIRCUIT LENGTH (MILES):		13.52			
6. CUSTOMER COUNT FOR THIS CIRCUIT:	452 December-13				
7. DATE OF LAST CIRCUIT TRIM (Month- YY):					
8. LIST OF OUTAGE(S):	OUTA	OUTAGE MINUTES (% OF TOTAL OUTAGE MINUTES):			
CONTRACTOR	0.00%	PUBLIC ACCIDENTS, OTHER	0.00%		
EQUIPMENT / MATERIAL FAILURE	2.20%	SMALL ANIMALS OR BIRDS	0.04%		
LIGHTNING	2.58%	TREES	0.00%		
NO CAUSE CODE	0.00%	WIND, HIGH WIND	0.00%		
POWER SUPPLIER	95.18%	WEATHER _	0.00%		
9. CIRCUIT 5 YEAR AVERAGE (SAIDI):	32.06			
10. REPORTING YEAR (SAIDI):		296.29			
11. CIRCUIT 5 YEAR AVERAGE (SAIF):	0.39			
12. REPORTING YEAR (SAIFI):		1.19			
13. LIST OF CORRECTIVE ACTION, I ANY, TAKEN OR TO BE TAKEN	F Nolir	n RECC to work with EKPC to review remedi transmission/substation reliability issues.	es for		

SECTION 6: VEGETATION MANAGEMENT PLAN REVIEW

INCLUDE CURRENT VEGETATION MANAGEMENT PLAN				
See attached "Vegetation Management Program 2-18-11 Nolin.PDF".				
SECTION 7: UTILITY COMMENTS				



Vegetation Management Program

Definitions of Terms Used in Standard

This section includes newly defined or revised terms used in this standard. New or revised definitions, listed below, become approved when the standard is placed in operation. When the standard becomes effective, these defined terms will be removed from the individual standard and added to the Glossary.

Fire Risk: The likelihood that a fire will ignite or spread in a particular geographic area.

Flashover: An electrical discharge through air around or over the surface of insulation, between objects of different potential, caused by placing a voltage across the air space that results in the ionization of the air space.

IEEE: Institute of Electrical and Electronics Engineers, Inc.

Vegetation Inspection: The systematic examination of a distribution corridor to document vegetation conditions.

Operating Voltage: The voltage level by which an electrical system is designated and to which certain operating characteristics of the system are related; also, the effective (root-mean-square) potential difference between any two conductors or between a conductor and the ground. The actual voltage of the circuit may vary somewhat above or below this value.

Rated Electrical Operating Conditions: The specified or reasonably anticipated conditions under which the electrical system or an individual electrical circuit is intend/designed to operate.

Right-of-Way (ROW): A corridor of land on which electric lines may be located. The distribution owner may own the land in fee, own an easement, or have certain franchise, prescription, or license rights to construct and maintain lines.

Sustained Outage: The de-energized condition of a distribution line resulting from a fault or disturbance following an unsuccessful automatic reclosing sequence and/or unsuccessful manual reclosing procedure.

Distribution Line: A system of structures, wires, insulators and associated hardware that carry electric energy from one point to another in an electric power system. Lines are operated at relatively high voltages varying from 120 V up to 7.2 kV, and are capable of transmitting quantities of electricity over long distances.

Vegetation: All plant material, growing or not, living or dead.

Introduction

Purpose:

To improve the reliability of the electric distribution systems by preventing outages from vegetation located on distribution rights-of-way (ROW) and minimizing outages from vegetation located adjacent to ROW, maintaining clearances between distribution lines and vegetation on and along distribution ROW.

This standard is developed for all distribution lines operated at 7.2 kV and to any lower voltage lines designated by the Nolin Rural Electric Cooperative Corporation (RECC) as critical to the reliability of the electric system in the region.

Requirements:

- Nolin RECC will periodically review, and keep current, the formal distribution vegetation management program. The review will include the evaluation of objectives, practices, approved procedures, work specifications, and evaluation of SAIDI, SAIFI, CAIDI, and CAIFI. The outage management system (OMS) will collect information from the automated meter reading (AMR) system, supervisory control and data acquisition (SCADA) and input from the on-duty dispatcher for evaluation.
- 2) The plan defines a schedule for ROW vegetation inspections. This schedule will be flexible enough to adjust for changing conditions. The inspection schedule is based on the anticipated growth of vegetation and any other environmental or operational factors that could impact the relationship of vegetation to the Nolin RECC's distribution lines.
- 3) Encourage public outreach to educate the public, in general, about the use and acceptance of vegetation management on rights-of-way.
- 4) Nolin RECC will, during initial installation, identify clearances between vegetation and any overhead, ungrounded supply conductors, taking into consideration the line voltage, the effects of ambient temperature on conductor sag under maximum design loading, the configuration and insulated value of the line, and the effects of wind velocities on conductor sway. Specifically, Nolin RECC will establish clearances to be achieved at the time of vegetation management work to maintain a set of clearances identified to prevent flashover between vegetation and overhead-ungrounded supply conductors. Nolin RECC shall determine appropriate clearance distances to be achieved at the time of distribution vegetation management work based upon: operating voltage, appropriate vegetation management techniques, fire risk, reasonably anticipated tree and conductor movement, species types and growth rates, species failure characteristics, local climate and rainfall patterns, line terrain and elevation, location of the vegetation within the span, and worker approach distance requirements.

- Nolin RECC will determine specific radial clearances to be maintained between vegetation and conductors under all rated electrical operating conditions. These minimum clearance distances are necessary to prevent flashover between vegetation and conductors and may vary due to such factors as has been stated. Nolin RECC shall develop mitigation measures to achieve sufficient clearances for the protection of the distribution facilities when it identifies locations on the ROW where it is restricted from attaining the clearances specified in this Requirement.
- 6) All personnel directly involved in the design and implementation of the Vegetation Management Program shall hold appropriate qualifications and training, as defined by Nolin RECC, to perform their duties.
- 7) Nolin RECC shall establish a process for the communication of vegetation conditions that present an imminent threat of an outage to a distribution line. This is so action may be taken (temporary reduction in line's consumers, switching line out of service, etc.) until the threat is relieved.
- 8) Nolin RECC shall create and implement an annual plan for vegetation management work to ensure the reliability of the system. The plan shall describe the methods used, such as manual clearing, mechanical clearing, herbicide treatment, or other actions. The plan should be flexible enough to adjust to changing conditions, taking into consideration the anticipated growth of vegetation and other environmental factors that may have an impact on the reliability of the distribution systems. Adjustments to the plan shall be documented as they occur. The plan should take into consideration the time required to obtain permissions or permits from landowners or regulatory authorities. Each procedure for documenting and tracking the planned vegetation management work and ensuring that the vegetation management work was completed according to work specifications.

Compliance to the Requirements

- 1. The overall 'Vegetation Management Plan' will be evaluated annually to establish the progress of the plans' past year improvement against prior years. The comparison will include outage data of specific feeders, overall system outages, record keeping process of outage tickets, time response to outage lengths, comparison of funds to lines lengths and type of work done, and AMR's blink reports. Each year the progress of the plan will be evaluated; deviations, deficiencies or improvements will be made for the following year, and work procedures will be considered.
- 2. The inspection and right of clearing schedule will be 3 years in dense housing areas (approximately 14 consumers per mile), fast growing tree (locust, sycamore etc.) areas and in areas where trimming maybe limited (historic sites, national forest, and sensitive environmental areas). Other areas will be on the normal 5-year cycle.
- 3. An article describing the need for right of way maintenance, safety issues associated with live electric lines and trees, and proper tree selection for planting near electric lines will be mailed to all consumer's service address.
- 4. During System inspection, employees working on existing facilities will make calls to the dispatcher about tree trimming or removal of trouble areas that may not comply with the RUS standard that is set forth in M1.30G "Right of way clearing guide" and standards set by the National Electrical Safety Code in Section 23. If no imminent danger exists, the dispatcher will generate a Work Order Ticket for the correction of the problem.
- 5. Staking sheets will have notes associated for tree trimming or removal with dimensions from the centerline of the line construction. The notes will remain with the staking sheets throughout the construction phase and final inspection of the jobs. The dimensions will comply with the RUS standard that is set forth in M1.30G "Right of way clearing guide" and standards set in the National Electrical Safety Code in Section 23.
- 6. Employees will have annual training on the RUS standards and National Electrical Safety Code relating to line construction and safety issues.
- 7. The dispatcher will be available 24 hours a day to take calls, make work order tickets, and dispatch employees for imminent danger of hazards to the public.
- 8. An overall system map will be color coded for work to be done each year. The map will be a base for planning and an estimate for budget numbers. The cost of various methods right of way control will be used as the land and environment dictate. Each year, during the planning period, an evaluation of outages and outages data will be used to set an estimated budget number. During the Budget planning, a dollar figure will be set aside for the various methods of right of way control. The areas, as budget permits, will be designated as to method and length of lines to be done.