



RECEIVED

APR 27 2015

PUBLIC SERVICE COMMISSION

April 23, 2015

Mr. Jeff Derouen
Executive Director
Public Service Commission
211 Sower Boulevard
Frankfort, Kentucky 40602

Re: ADMINISTRATIVE CASE NO. 2011-00450

AN INVESTIGATION OF THE RELIABILITY MEASURES OF KENTUCKY'S JURISDICTIONAL ELECTRIC DISTRIBUTION UTILITIES

Dear Mr. Derouen:

Enclosed is the Electric Distribution Utility Annual Reliability Report for Inter-County Energy Cooperative pursuant to the Public Service Commission Administrative Case No. 2011-00450 dated April 1, 2014.

If you have further questions or comments, please direct those to David Phelps, Vice President-Operations. His direct line is 859-936-7818 or email to davidp@intercountyenergy.net.

Sincerely,

James L. Jacobus President/CEO

Copy To: Mr. Kyle Willard, Director of Engineering, KY Public Service Commission





APR 27 2015

PUBLIC SERVICE
COMMISSION

Administrative Case No. 2011-00450

April 23, 2015

Electric Distribution Utility Annual Reliability Report

- Contact Information
- Report Year
- Major Event Days
- System Reliability Information and Results
- Circuit Reporting
- · Vegetation Management Plan Review
- Utility Comments

Electric Distribution Utility Annual Reliability Report

SECTION 1: CONTACT INFORMATION

UTILITY NAME 1.1 Inter-County Energy

REPORT PREPARED BY 1.2 David Phelps

E-MAIL ADDRESS OF PREPARER 1.3 davidp@intercountyenergy.net PHONE NUMBER OF PREPARER 859-236-4561 ext. 7818 1.4

SECTION 2: REPORT YEAR

CALENDAR YEAR OF REPORT 2.1 2014

SECTION 3: MAJOR EVENT DAYS

3.1 12.85091

FIRST DATE USED TO DETERMINE TMED 3.2 Jan. 1, 2009 LAST DATE USED TO DETERMINE TMED Dec. 31, 2013

3.3

NUMBER OF MED IN REPORT YEAR 3.4

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

SECTION 4: SYSTEM RELIABILITY INFORMATION AND RESULTS

System-wide Information

TOTAL CUSTOMERS 26121 **TOTAL CIRCUITS** 42

Excluding MED

5 YEAR AVERAGE REPORTING YEAR SAIDI 103.23 SAIDI 109.97 SAIFI SAIFI 1.18

Including MED

5 YEAR AVERAGE REPORTING YEAR SAIDI 2715.66 SAIDI 582.15 SAIFI SAIFI 2.73

Notes:

- 1) All duration indices (SAIDI, CAIDI) are to be reported in units of minutes.
- 2) Reports are due on the first business day of May of each year
- 3) Reports cover the calendar year ending in the December before the reports are due.
- 4) IEEE 1366 (latest version) is used to define SAIDI, SAIFI, CAIDI, and T_{MED}

Section 5: Circuit Reporting 2014

-			11 4
(.	ırcı	111	#1

3. Circuit Name and Number 4. Circuit Location Curt 5. Total Circuit Length (Miles) 6. Customer Count 7. Date of Last Circuit Trim 8. Outage Cause (% of Total Outage Numbers) Anima	0.00% 0.00% 0.00%
4. Circuit Location Curt 5. Total Circuit Length (Miles) 6. Customer Count 7. Date of Last Circuit Trim 8. Outage Cause (% of Total Outage Numbers) Anima	Old Hwy 52 (3) is Ln, Conns Ln, Deer Haven Ln, Hale Li 4.02 May-10 Is 100.00% od 0.00%
4. Circuit Location Curt 5. Total Circuit Length (Miles) 6. Customer Count 7. Date of Last Circuit Trim 8. Outage Cause (% of Total Outage Numbers) Anima	is Ln, Conns Ln, Deer Haven Ln, Hale Li 4.03 2 May-16 Is 100.00% and 0.00%
Curt 5. Total Circuit Length (Miles) 6. Customer Count 7. Date of Last Circuit Trim 8. Outage Cause (% of Total Outage Numbers) Anima	4.02 22 May-10 Is 100.00% ag 0.00% ad 0.00%
5. Total Circuit Length (Miles) 6. Customer Count 7. Date of Last Circuit Trim 8. Outage Cause (% of Total Outage Numbers) Anima	4.02 22 May-10 Is 100.00% ag 0.00% ad 0.00%
6. Customer Count 7. Date of Last Circuit Trim 8. Outage Cause (% of Total Outage Numbers) Anima	22 May-10 See See See See See See See See See Se
7. Date of Last Circuit Trim 8. Outage Cause (% of Total Outage Numbers) Anima	May-10 Is 100.00% Ig 0.00% Id 0.00%
8. Outage Cause (% of Total Outage Numbers) Anima	ls 100.00% od 0.00%
Anima	0.00% 0.00% 0.00%
	g 0.00% dd 0.00%
	od 0.00%
Lightnir	
High Wir	re 0.00%
Equip. Failui	
Deteriorate	ed 0.00%
Cars or Truck	cs 0.00%
Insulation brok	e 0.00%
Vegetation/Tree	es 0.00%
Trees Cut Into Lir	e 0.00%
Equipment C	0.00%
Rain/ Id	e 0.00%
Cased by Other	rs 0.00%
9. Circuit 5 Year Average (SAIDI)	(
10. Reporting Year (SAIDI)	0.03492063
11. Circuit 5 Year Average (SAIFI)	3.03.03
12. Reporting Year (SAIFI)	0.04761904
13. List of Corrective Action, If Any, Taken or To Be Taken	
2014-2017 Work Plan Actions To Be Taken:	None

0			110
(:1	rci	HT	#2

Circuit #2		
1. Substation Name and Number	Lanca	aster (1)
2. Substation Location	Garrard-Buckeye Rd-Lancaster	
3. Circuit Name and Number	Conn	s Ln (4)
4. Circuit Location		
	Conns Ln, Miller Ave,Eastlar	nd Acres, Richmond Road Loop 1
5. Total Circuit Length (Miles)		5.61
6. Customer Count		79
7. Date of Last Circuit Trim		May-10
8. Outage Cause (% of Total Outage Number	ers)	
	Animals	0.00%
	Lightning	0.00%
	High Wind	50.00%
	Equip. Failure	0.00%
	Deteriorated	0.00%
	Cars or Trucks	0.00%
	Insulation broke	0.00%
	Vegetation/Trees	0.00%
	Trees Cut Into Line	0.00%
	Equipment OL	0.00%
	Rain/ Ice	0.00%
	Cased by Others	50.00%
O. Circuit E. Voor Average (CAIDI)		
9. Circuit 5 Year Average (SAIDI)		0.0010155
10. Reporting Year (SAIDI)		0.03164557
11. Circuit 5 Year Average (SAIFI)		0.00504045
12. Reporting Year (SAIFI)	T D T I	0.025316456
13. List of Corrective Action, If Any, Taken o		
2014-2017 Work Plan Actions To Be Taken:	None	

0			110
	Irci	111	#3
		411	#

Circuit #3			
Substation Name and Number	Ballard (2		
2. Substation Location	Lincoln-Fisher Ford Rd-Lancaster		
3. Circuit Name and Number	Wells Lan	ding (2)	
4. Circuit Location			
	Wells Landing Rd, Old Bridge,	Taylor Rd, Old Lexington Ro	
5. Total Circuit Length (Miles)		23.6	
6. Customer Count		486	
7. Date of Last Circuit Trim		Feb-1	
8. Outage Cause (% of Total Outage Numl	bers)		
	Animals	0.11%	
	Lightning	1.92%	
	High Wind	91.39%	
	Equip. Failure	0.00%	
	Deteriorated	0.22%	
	Cars or Trucks	0.32%	
	Insulation broke	0.00%	
	Vegetation/Trees	3.28%	
	Trees Cut Into Line	0.00%	
	Equipment OL	0.00%	
	Rain/ Ice	0.00%	
	Cased by Others	2.76%	
Circuit 5 Year Average (SAIDI)		0.89950038	
10. Reporting Year (SAIDI)		2.30620713	
11. Circuit 5 Year Average (SAIFI)		0.59489950	
12. Reporting Year (SAIFI)		1.07407407	
13. List of Corrective Action, If Any, Taken	or To Be Taken		
2014-2017 Work Plan Actions To Be Take			

0			11 4
('1	rol	111	#4
	16	411	***

Circuit #4	
Substation Name and Number	Shelby City(4)
2. Substation Location	Boyle-E Knob Lick Rd-Junction City
3. Circuit Name and Number	Junkyard (3)
4. Circuit Location	
US Hwy 127 N, Troy Ave, Arcadia View Dr, Bo	owens Rd, Moores Ln, KY Hwy 1194, Jeffries L
5. Total Circuit Length (Miles)	57.6
6. Customer Count	114
7. Date of Last Circuit Trim	Oct-1
8. Outage Cause (% of Total Outage Numbers)	
	Animals 0.00%
	Lightning 11.289
Н	igh Wind 0.00%
Equip	o. Failure 5.91%
Det	reriorated 55.05%
Cars	or Trucks 0.419
Insulati	on broke 0.00%
Vegetati	on/Trees 0.40%
Trees Cut	Into Line 0.00%
Equip	oment OL 1.849
	Rain/ Ice 12.16%
Cased b	by Others 12.94%
Circuit 5 Year Average (SAIDI)	0.37397933
10. Reporting Year (SAIDI)	1.112097470
11. Circuit 5 Year Average (SAIFI)	0.86813272
12. Reporting Year (SAIFI)	1.51436031
13. List of Corrective Action, If Any, Taken or To Be Take	
2014-2017 Work Plan Actions To Be Taken:	348 (2017)
Black Pike-Convert 1ph to 3ph, 1/0AAAC	0.10 (2011)

0				""
1 -	r	711	1+	#5
		.11		#

1. Substation Name and Number	Peyton Store (5)		
2. Substation Location	n Casey-Hwy 78-Hustonville		
3. Circuit Name and Number	Little South (2)		
4. Circuit Location			
KY 243, Maxey Valley Rd, Black L	ick Rd, Bob Curtis Rd, Kedron Rd, Buffalo Rd		
5. Total Circuit Length (Miles)	43.23		
6. Customer Count	210		
7. Date of Last Circuit Trim	Oct-13		
8. Outage Cause (% of Total Outage Numbers)			
Ar	nimals 0.00%		
Lig	htning 0.10%		
High	Wind 14.11%		
Equip. F	Failure 16.08%		
Deterio	orated 0.00%		
Cars or T	Frucks 68.39%		
Insulation	broke 0.19%		
Vegetation/	/Trees 0.13%		
Trees Cut Int	to Line 1.01%		
Equipme	ent OL 0.00%		
Ra	in/ Ice 0.00%		
Cased by C	Others 0.00%		
9. Circuit 5 Year Average (SAIDI)	1.102635926		
10. Reporting Year (SAIDI)	17.66896825		
11. Circuit 5 Year Average (SAIFI)	0.336357468		
12. Reporting Year (SAIFI)	5.042857143		
13. List of Corrective Action, If Any, Taken or To Be Taken			
2014-2017 Work Plan Actions To Be Taken:	339 (2015), 340 (2015), 343 (205)		
Hwy 243-Convert 2ph to 3ph, 4/0ACSR			
Hwy 243-Convert 1ph to 3ph, 4/0ACSR			
Hwy 78/Maxey Valley-Convert to 3ph 1/0AAAC			

Circuit #6

Substation Name and Number	Gooch	(11)
2. Substation Location	Lincoln-Rice Ln-Stanford	
3. Circuit Name and Number	Fairgro	unds (5)
4. Circuit Location		
KY Hwy 1247, Old Ottenheim Ro	l, US Hwy 27 S, Maywood	Rd, KY Hwy 3249, KY Hwy 643
5. Total Circuit Length (Miles)		62.02
6. Customer Count		881
7. Date of Last Circuit Trim		Aug-14
8. Outage Cause (% of Total Outage Numbers)		
	Animals	0.45%
	Lightning	0.08%
	High Wind	21.85%
	Equip. Failure	2.81%
	Deteriorated	0.00%
	Cars or Trucks	0.00%
	Insulation broke	0.00%
	Vegetation/Trees	56.71%
Т	rees Cut Into Line	0.55%
	Equipment OL	0.15%
	Rain/ Ice	16.41%
	Cased by Others	0.98%
Circuit 5 Year Average (SAIDI)		1.23657552
10. Reporting Year (SAIDI)		4.732387439
11. Circuit 5 Year Average (SAIFI)		0.934987878
12. Reporting Year (SAIFI)		2.631101022
13. List of Corrective Action, If Any, Taken or To	Be Taken	2.001101022
2014-2017 Work Plan Actions To Be Taken:		

0			
('1	rol	111	#7
		311	# 1

Circuit #1		
Substation Name and Number	Marion Industrial(12)	
2. Substation Location	Marion-Industrial Dr-Lebanon	
3. Circuit Name and Number	Ky Hwy 208 (1)	
4. Circuit Location		
New Calvery Rd, Lovers Ln, Millers Pike, C	Campbellsville Hwy, McElroy Pike, Wards Branch	
5. Total Circuit Length (Miles)	64	
6. Customer Count		
7. Date of Last Circuit Trim	Feb	
8. Outage Cause (% of Total Outage Numbers)		
	Animals 1.5	
	Lightning 23.2	
	High Wind 0.0	
E	quip. Failure 0.3	
	Deteriorated 0.0	
Ca	ars or Trucks 0.0	
Inst	ulation broke 0.0	
Vege	etation/Trees 0.0	
Trees	Cut Into Line 0.0	
Ec	quipment OL 52.8	
	Rain/ Ice 0.0	
Case	ed by Others 21.9	
Circuit 5 Year Average (SAIDI)	1.255628	
10. Reporting Year (SAIDI)	0.992495	
11. Circuit 5 Year Average (SAIFI)	0.58093	
12. Reporting Year (SAIFI)	2.36424	
13. List of Corrective Action, If Any, Taken or To Be T		
2014-2017 Work Plan Actions To Be Taken:	332 (2017)	
Miller Pike-Replace 1ph-#4ACSR with 1ph-1/0AAAC		

0.			110
(1	rol	117	#8
	16	41L	TT

Circuit #6	
Substation Name and Number	Toddville (14)
2. Substation Location	Garrard-Kennedy Bridge Rd-Toddville
3. Circuit Name and Number	WDKY (1)
4. Circuit Location	
Kennedy Bridge Rd, Tuggle Rd, Rogers Rd, Polly B	end Rd, High Bridge Rd, Donmar Dr, Hunter [
5. Total Circuit Length (Miles)	47.1
6. Customer Count	46
7. Date of Last Circuit Trim	May-1
8. Outage Cause (% of Total Outage Numbers)	
	Animals 0.87
L	ightning 1.49°
Hiç	gh Wind 0.00°
Equip	Failure 1.08
Dete	riorated 0.00°
Cars or	Trucks 0.68°
Insulation	n broke 0.00°
Vegetatio	n/Trees 4.30°
Trees Cut I	nto Line 0.00°
Equipr	nent OL 0.00°
F	Rain/ Ice 91.589
Cased by	Others 0.00°
9. Circuit 5 Year Average (SAIDI)	1.10231374
10. Reporting Year (SAIDI)	4.97937187
11. Circuit 5 Year Average (SAIFI)	0.73869935
12. Reporting Year (SAIFI)	1.36616702
13. List of Corrective Action, If Any, Taken or To Be Taken	
2014-2017 Work Plan Actions To Be Taken:	353 (2017), 354 (2016), 355 (2016)
Ridge Runner Subd-Convert 1ph to 2ph, 1/0AAAC	
High Bridge Rd-Convert 1ph to 3ph, 1/0AAAC	
High Bridge Rd-Convert 1ph to 2ph-1/0AAAC	

Additional pages may be attached as necessary SECTION 6: VEGETATION MANAGEMENT PLAN REVIEW

Inter-County Energy completed the second year of its 5 year vegetation m	anagement plan. Inter-
County Energy is closely monitoring the results of the second year of our	second cycle.
	,
SECTION 7: UTILITY COMMENTS	
SECTION 7: UTILITY COMMENTS	