COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

KENTUCKY UTILITIES COMPANY

ALLEGED FAILURE TO COMPLY WITH KRS 278.042 CASE NO. 2017-00094

ORDER

Kentucky Utilities Company ("KU") is a corporation organized under KRS Chapter 278 and is engaged in the distribution of electricity for compensation for lights, heat, power, and other uses. It is subject to the jurisdiction of the Commission under KRS 278.010(3)(a) and (10). Pursuant to KRS 278.042, the Commission shall prescribe the service adequacy and safety standards for electric utilities, as stated in the Commission's administrative regulations, orders, and in the most recent edition of the National Electrical Safety Code ("NESC"). Under 807 KAR 5:041, Section 3(1), the Commission requires utilities to construct and maintain plants and facilities in accordance with engineering practices set forth in the NESC.

Commission Staff submitted to the Commission a Staff Incident Investigation Report ("Staff Report") dated January 12, 2017, attached hereto as an Appendix. According to KU's Utility Summary Report,¹ KU was notified the afternoon of November 21, 2016, of a possible public contact with primary voltage from the Harlan Police Department. Immediately thereafter, KU dispatched a trouble technician to 421 Redbud

¹ The Utility Summary Report was attached as Attachment B to the Staff Incident Investigation Report.

Hill Road, a rural one-lane road in Evarts, Kentucky, to investigate the incident. The KU technician arrived at the incident site and confirmed that Mr. Hobbs had made contact with 7.2 kilovolts ("KV") primary voltage on the Evarts circuit 4475. It appears that Mr. Hobbs was in the process of transporting a mobile home when he climbed onto the roof of the mobile home, which was sitting on a trailer, in an attempt to raise the service wire and the system neutral in order to allow the mobile home to pass under the lines. When Mr. Hobbs raised both the service wire and the system neutral, the two lines made contact with the 7.2-KV primary conductor. Mr. Hobbs sustained unspecified injuries as a result of the contact and was ultimately transported to the Joseph M. Still Burn Center in Augusta, Georgia. KU's Utility Summary Report also provided that the clearances for the service wire, the system neutral, and the primary conductor were measured at 14 feet, 14 feet 2 inches, and 19 feet 1 inch respectively, at the time of the incident.

The Staff Report alleges that the service wire and system neutral failed to meet the vertical clearance requirements set for the by the 2012 edition of the NESC, which are 16 feet for service wires and 15.5 feet for system neutral lines. The Staff Report determined that the clearance associated with the primary conductor complied with the NESC vertical clearance for those lines of 18.5 feet.

Based on its review of the Staff Report and being otherwise sufficiently advised, the Commission finds that *prima facie* evidence exists that KU has failed to comply with KRS 278.042 and the 2012 edition of the NESC. Specifically, the Commission finds that *prima facie* evidence exists that KU has violated the following provision of the 2012 NESC:

-2-

1. NESC Part 2, Section 23, Rule 232(B)(1) – Safety Rules for the Installation and Maintenance of Overhead Electric and Communication Lines – Clearances – Vertical Clearance of Wires, Conductors, Cables, and Equipment Above Ground, Roadway, Rail, or Water Surfaces:

a. Service Wire: 16'

b. System Neutral: 15.5'

The Commission further finds that a formal investigation into the incident that is the subject matter of the Staff Report should be conducted and that this investigation should also examine the adequacy, safety, and reasonableness of KU's practices related to the construction, installation, and repair of electric facilities.

The Commission, on its own motion, HEREBY ORDERS that:

1. KU shall submit to the Commission a written response to the allegations contained in the Staff Report within 20 days of the date of this Order.

2. KU shall appear on June 21, 2017, at 9 a.m., Eastern Daylight Time, in Hearing Room 1 of the Commission's offices at 211 Sower Boulevard in Frankfort, Kentucky, for the purpose of presenting evidence concerning the alleged violation of KRS 278.042 and the 2012 edition of the NESC, and showing cause why it should not be subject to the penalties prescribed in KRS 278.990(1) for the alleged violation.

3. The June 21, 2017 hearing shall be recorded by videotape only.

4. The Staff Report in the Appendix to this Order is made a part of the record in this case.

5. At the scheduled hearing in this matter, KU shall also present evidence on the adequacy, safety, and reasonableness of its practices related to the construction,

-3-

installation, and repair of electric facilities as they relate to the facts of this case and whether such practices require revision as related to this incident.

6. Any requests for an informal conference with Commission Staff shall be set forth in writing and filed with the Commission within 20 days of the date of this Order.

By the Commission

ENTERED MAR 01 2017 KENTUCKY PUBLIC SERVICE COMMISSION

ATTEST:

Carrow Summeller **Executive Director**

APPENDIX

APPENDIX TO AN ORDER OF THE KENTUCKY PUBLIC SERVICE COMMISSION IN CASE NO. 2017-00094 DATED MAR 0 1 2017

Matthew G. Bevin Governor

Charles G. Snavely Secretary Energy and Environment Cabinet Commonwealth of Kentucky Public Service Commission 211 Sower Blvd. P.O. Box 615 Frankfort, Kentucky 40602-0615 Telephone: (502) 564-3940 Fax: (502) 564-3460 psc.ky.gov Michael J. Schmitt Chairman

> Robert Cicero Vice Chairman

Daniel E. Logsdon Jr. Commissioner

Staff Incident Investigation Report

Utility: Kentucky Utilities Contact Person: Greg Bell Email: greg.lindsey@lge-ku.com Address: 220 Main Street, Louisville, KY 40202 Phone: 502-333-1827

Approximate Time: 4:30 p.m.

Approximate Time: 6:12 p.m.

Company involved with the incident: Daniels Construction and Mobile Home Service Address: P. O. Box 125, Bumble, Kentucky Contact Person: Mark Daniels Phone: 606-627-1355 Email: Unknown

Incident Location: 421 Redbud Hill Road, Evarts, KY 40828

Incident Date: November 21, 2016

Date PSC Notified: November 21, 2016

Date PSC Investigated: November 29, 2016

Person(s) Injured: Marcus Hobbs

Injury: Unknown

Fatality: No, Mr. Hobbs was taken to Harlan Kentucky hospital and later flown to Joseph M. Still Burn Center, Augusta, GA. Condition unknown at this time.

Utility Personnel at Site Visit: See Attachment A

PSC Investigator: Jeff Moore

Incident Description: See Summary Report, See Attachment B

Discussion: On November 29, 2016 commission staff met with utility personnel at the Harlan, Kentucky operations center to review the information provided by the utility prior to this meeting. During the discussion additional documents were requested and are included as attachments to this report. PSC photographs taken during the site visit after changes had been made to the utility's facilities, **See Attachment C**

KentuckyUnbridledSpirit.com



An Equal Opportunity Employer M/F/D

Prior to the meeting on November 29th the utility took measurements that night at the incident site as noted on the third page of the summary report in attachment B. Measurements are from the road surface to each conductor.

Measurements noted in the summary report as compared to the National Electrical Safety Code (NESC).

Service Wire (120/240 volt) 14-feet: System Neutral 14-feet 2-inches: Primary Conductor (7200 volts) 19-feet 1-inch: NESC minimum clearance 16-feet NESC minimum clearance 15-feet 6-inches NESC minimum clearance 18-feet 6-inches

Addition Information Requested: Utility photographs (any not included in the summary report) of incident site, facilities involved system inspection, facilities involved maintenance records, copy of the outage report, and facilities construction date, **See Attachment D**.

Note: A utility incident investigation report was requested during the site visit, but the utility personnel at this meeting informed me it has not been prepared and would not be available because it was protected information.

Applicable Statute and Code 278.042 Service Adequacy and Safety Standards for Electric Utilities NESC (Current Edition, 2012)

Conclusion: <u>Based on the information from the utility the Service Wire (14-feet) and System Neutral</u> (14-feet 2-inches) did not meet the minimum requirement of the NESC, a probable violation of Section 23, Clearances, Rule 232 (B)(1) of the NESC.

> 232. Vertical clearances of wires, conductors, cables, and equipment above ground, roadway, rail, or water surfaces: B. Clearance of wires, conductors, cables, equipment, and support arms mounted on supporting structures: 1. Clearance to wires, conductors, and cables: The vertical clearance of wires, conductors, and cables above ground in generally accessible places, roadway, rail, or water surfaces, shall be not less than that shown in Table 232-1, See Attachment E.

Submitted by:

Date: January 12, 2017

Jeff Moore Utility Regulatory & Safety Investigator Public Service Commission

KentuckyUnbridledSpirit.com



An Equal Opportunity Employer M/F/D

Attachment A:	Utility Personnel at Site Visit
Attachment B:	Utility Summary Report
Attachment C:	PSC Photographs of the incident site
Attachment D:	Additional Information Requested
Attachment E:	NESC Section 23, Rule 232 (B)(1) and Table 232-1

KentuckyUnbridledSpirit.com



An Equal Opportunity Employer M/F/D

PPL companies

December 9, 2016

Mr. Jeff Moore Kentucky Public Service Commission 211 Sower Blvd. PO Box 615 Frankfort, KY 40601

Re: Public Electrical Contact Incident Date: November 21, 2016 Report Number: 16-ED-E-018-KU

Dear Mr. Moore:

As requested, enclosed for your review and file are copies of the following:

- Outage Report for the resulting power outage;
- · Maintenance records for the subject facilities.
- · Additional photos of incident site, including photos of service drop;

KU representatives who attended the site visit conducted on November 29, 2016:

- Keith McBride, Fire and Security Investigator
- Greg Lindsey, Manager Electrical Technical Training and Public Safety
- William Davis, Line Supervisor A
- Cecil Jackson, Team Leader, Pineville Operations
- Stewart Spradlin, Manager Pineville, Norton Operations
- Chris Robinson, Counsel for Kentucky Utilities

KU's records reflect that the service feeding 421 Red Bud Hill Road was in place at least as of May 1981. The pole and related facilities have been in place since at least the early 1970's. Thus, it is unclear whether the service was originally constructed before 1981. The primary and neutral that run to the dead-end pole on Red Bud Hill Road were constructed on January 26, 2006.

RECEIVED

115.

DEC 1 2 2016

PUBLIC SERVICE COMMISSION

Kentucky Utilities Company Legal Department 220 W. Main St. Louisville, Kentucky 40202 www.lge-ku.com

Jay Warren Sr. Corporate Attorney T 502-627-3203 F 502-627-3367 Jay. Warren@lge-ku.com



PPL companies

If you need additional information concerning this incident, please contact me at (502) 627-3203.

Sincerely, 1 Jay Warren

Enclosures



RECEIVED

NOV 2 8 2016

PUBLIC SERVICE

Corporate Law 220 W. Main Street Louisville, Kentucky 40202 www.lge-ku.com

Jay Warren Senior Corporate Attorney T 502-627-3203 F 502-627-3367 Jay.Warren@lge-ku.com

November 28, 2016

Dr. Talina Mathews Kentucky Public Service Commission 211 Sower Blvd. P.O. Box 615 Frankfort, KY 40602

Re: Report No. 16-ED-E-018-KU

Dear Dr. Mathews:

I am forwarding the enclosed Investigation Report prepared by Greg Lindsey and Brian Claypool regarding the public contact incident that occurred in Evarts, Kentucky on November 28, 2016. Kentucky Utilities Company is providing this report to the KPSC in accordance with the applicable seven-day reporting requirement. Please return a file stamped copy of the report in the envelope provided.

Should you need additional information concerning this incident, please contact me at (502) 627-3203.

Sincerely, Warren ay

Enclosures

1/1

KPSC INVESTIGATION REPORT

KU Public Contact

Type of Report

- 'ei

Brian Claypool & Greg Lindsey Investigators <u>16-ED-E-018-KU</u>

Report Number

RECEIVED

November 21, 2016 Date of Incident PUBLIC SERVICE COMMISSION

Location: 421 Redbud Hill Road, Evarts, Kentucky

Incident Summary

On November 21, 2016 at 4:30 p.m., KU received notice of a possible public contact with primary voltage from Harlan Police Department. KU dispatched a trouble technician to 421 Redbud Hill Road in Evarts, Kentucky at 4:35 p.m. The technician arrived on site at approximately 5:10 p.m. and confirmed that a member of the public had made contact with primary voltage on Evarts circuit 4475, 7.2 KV.

Greg Lindsey reported to the Kentucky Public Service Commission (KPSC) at 6:12pm that a member of the public had contacted primary voltage via electronic mail.

Incident Investigation

On November 21, 2016 at 4:30 p.m., KU received notice of a possible public contact with primary voltage from Harlan Police Department. KU dispatched a trouble technician to 421 Redbud Hill Road in Evarts, Kentucky at 4:35 p.m. The technician arrived on site at approximately 5:10 p.m. and confirmed that a member of the public had made contact with primary voltage on Evarts circuit 4475, 7.2 KV.

Marcus Hobbs with Daniels Construction and Mobile Home Service made contact with a primary overhead conductor at 421 Redbud Hill Road, which is a rural one lane road allowing access to several homes. According to Hobbs' co-workers, Daniels Construction and Mobile Home Services was in the process of moving a mobile home. Mr. Hobbs's climbed onto the roof of the mobile home to raise a service wire in order to allow the mobile home to pass under it. The service wire he lifted ran under the system neutral. When Mr. Hobbs raised both the service wire and the system neutral, they made contact with a 7.2 KV primary conductor.

Mr. Hobbs was transported by ambulance to Harlan ER, and eventually transported to Joseph M. Still Burn Center in Augusta, GA.

Injured: Marcus Hobbs, 27 years old Barbourville, KY

Company:

.

,

Mark Daniels Daniels Construction and Mobile Home Services P.O. Box 125 Bumble, KY 1-606-627-1355

Clearances

Service Wire – 14' System Neutral – 14' 2" Primary Conductor– 19'1"

DATE OF REPORT: November 28, 2016 END OF REPORT











































Ins.



December 9, 2016

Mr. Jeff Moore Kentucky Public Service Commission 211 Sower Blvd. PO Box 615 Frankfort, KY 40601

Re: Public Electrical Contact Incident Date: November 21, 2016 Report Number: 16-ED-E-018-KU

Dear Mr. Moore:

As requested, enclosed for your review and file are copies of the following:

- Outage Report for the resulting power outage;
- Maintenance records for the subject facilities.
- Additional photos of incident site, including photos of service drop;

KU representatives who attended the site visit conducted on November 29, 2016:

- Keith McBride, Fire and Security Investigator
- Greg Lindsey, Manager Electrical Technical Training and Public Safety
- William Davis, Line Supervisor A
- Cecil Jackson, Team Leader, Pineville Operations
- Stewart Spradlin, Manager Pineville, Norton Operations
- Chris Robinson, Counsel for Kentucky Utilities

KU's records reflect that the service feeding 421 Red Bud Hill Road was in place at least as of May 1981. The pole and related facilities have been in place since at least the early 1970's. Thus, it is unclear whether the service was originally constructed before 1981. The primary and neutral that run to the dead-end pole on Red Bud Hill Road were constructed on January 26, 2006.

DEC 1 2 2016

PUBLIC SERVICE COMMISSION

Kentucky Utilities Company Legal Department

220 W. Main St. Louisville, Kentucky 40202 www.lge-ku.com

Jay Warren Sr. Corporate Attorney T 502-627-3203 F 502-627-3367 Jay. Warren@lge-ku.com



PPL companies

If you need additional information concerning this incident, please contact me at (502) 627-3203.

Sincerely, 1 Jay Warren

Enclosures
Event # 203	35136		1	Device sub_cbr543700)		
witching Plan #					U PINOC HARLAN		
ob Actions Comp	letion Actions	Equipment Failure					and states
Event Began	1/21/16 16:30	- A CONTRACTOR OF		Est # o	f Cust Out 636	1697 (1997 (1997)) 1997 (1997)	
Event Restored 1							
	42410 10. 10 100	ע	-	First Custo	mer Called 11/21/16 16:3	30	
Partial Restoration L	and the second second				and the second second		
	Dperation Time	Device	≠ Cust Re	the second se		Remarks	Event #
644 8	11/21/16 18:46 11/21/16 20:39		636 8	0	8		2035136
Est Time to Restore	(HH:MM) ##:##	Update ERT	Est Rest	ore Time 11/21/16 19:	30 B Clear ERT	Est Time to Repair ()HH:MM) ##:#
Customer Notes - C	ustomer/Public Info		Est Rest	ore Time 11/21/16 19:	30 (感) Clear ERT	Est Time to Repair ()HH:MM)
Customer Notes - C Damage Location 421 SALS BRAN	ustomer/Public Info		Est Rest	ore Time 11/21/16 19:	30 🚯 Clear ERT	Est Time to Repair (}-⊞+:MM)
Customer Notes - C Damage Location 421 SALS BRAN Action Taken	ustomer/Public Info		Est Rest	ore Time 11/21/16 19:	30 B Clear ERT	Est Time to Repair (
Customer Notes - C Damage Location 421 SALS BRAN Action Taken Repaired/Restor	ustomer/Public Info		Est Rest	ore Time 11/21/16 19:	30 (路) Clear ERT	Est Time to Repair (
Customer Notes - C Damage Location 421 SALS BRAN Action Taken	ustomer/Public Info		Est Rest	ore Time 11/21/16 19:	30 (B) Clear ERT	Est Time to Repair (
Customer Notes - C Damage Location 421 SALS BRAN Action Taken Repaired/Restor	ustomer/Public Info		Est Rest	ore Time 11/21/16 19:	30 B Clear ERT	Est Time to Repair (
Customer Notes - C Damage Location 421 SALS BRAN Action Taken Repaired/Restor	ustomer/Public Info		Est Rest	ore Time 11/21/16 19:	30 B Clear ERT	Est Time to Repair (HH:MM) ##:#
Customer Notes - C Damage Location 421 SALS BRAN Action Taken Repaired/Restor Customer Respon	ustomer/Public Info		Est Rest	ore Time 11/21/16 19:	30 B Clear ERT	Est Time to Repair (
Customer Notes - C Damage Location 421 SALS BRAN Action Taken Repaired/Restor	ustomer/Public Info	rmation	Est Rest		30 B Clear ERT	Est Time to Repair (
Customer Notes - C Damage Location 421 SALS BRAN Action Taken Repaired/Restor Customer Respon	ustomer/Public Info	rmation	Reset Conta		30 B Clear ERT	Contact Require	

e + Actions +	Help 🔻 📴 🖽			www.		
Event # 203	5136	Device sub_cb	543700			
itching Plan #			RATE KU PINO	C HARLAN		
				1		
b Actions Comple	ation Actions Equipment Fa	allure				
Event Began 11	/21/16 16:30 2			Est # of Cust Ou	at 636	
Event Restored 11		Meter #		Readin		
etails					- L.	
S - Dec	Overhead		Caural	D. bliz Tatasfasaasa	-	
	And the second sec			Public Interference		
	Primary		rrupting Device			
Equipment Affected			Weather			
Job Code			Remedy	Completed/Restored		
Exclude This Even Derations Event Not EPAIRED 2T OH SV	e C, MADE SAFE FOR WORKERS	S IN AREA, RECONNTECTED JUMPER	?; REMOVED MET	TER NUMBER C383628 I	READING 31550 U	UNABLE TO
Exclude This Even perations Event No REPAIRED 2T OH SV CONTACT CUSTOME	ie C, MADE SAFE FOR WORKERS R	S IN AREA, RECONNTECTED JUMPER	REMOVED MET	TER NUMBER C383628	READING 31550 U	UNABLE TO
Exclude This Even perations Event No REPAIRED 2T OH SV CONTACT CUSTOME	ie C, MADE SAFE FOR WORKERS R	S IN AREA, RECONNTECTED JUMPER	R; Removed met			
Exclude This Even perations Event No EPAIRED 2T OH SV CONTACT CUSTOME perations Event No lote EPAIRED 2T OH SV	te History	IN AREA, RECONNTECTED JUMPER		ER NUMBER C383628 Date 2016/11/21 20:53:52		Crew
Exclude This Even perations Event No REPAIRED 2T OH SV CONTACT CUSTOME Operations Event No Note REPAIRED 2T OH SV REPAIRED 2T OH SV RETER NUMBER C38	te History C, MADE SAFE FOR WORKERS R te History C, MADE SAFE FOR WORKERS 3628 READING 31550 UNABLE	IN AREA, RECONNTECTED JUMPER		Date		Crew
Operations Event No Note REPAIRED 2T OH SVI RETER NUMBER C38	Log	IN AREA, RECONNTECTED JUMPER TO CONTACT CUSTOMER	; REMOVED	Date 2016/11/21 20:53:52		Crew 8601_Bradley_H
Exclude This Even perations Event No REPAIRED 2T OH SV CONTACT CUSTOME Operations Event No Note REPAIRED 2T OH SV REPAIRED 2T OH SV RETER NUMBER C38	te History C, MADE SAFE FOR WORKERS R te History C, MADE SAFE FOR WORKERS 3628 READING 31550 UNABLE	IN AREA, RECONNTECTED JUMPER	; REMOVED	Date		Crew 8601_Bradley_H

LYCIN W LUJ	5203		Dev	ice pri_oh11862316			
Switching Plan #			Zone CORPORATE KU PINOC HARLAN				
Job Actions Comple	etion Actions E	Equipment Failure					
Turine and the	/21/16 16:30			Cat = af C			
					ust Out 8		
Event Restored 11	21/16 20:39 120			First Custome	r Called		
Partial Restoration Lo	the first second s		-				
# Cust Out Before 644	Operation Time 11/21/16 18:46	Device sub_cbr543700	# Cust Restor 636	ed # Cust Added	# Cust Out After Remarks	Event # 2035136	
8		pri_oh11862316	8	0	0	2035203	
Est Time to Restore Customer Notes - Cu			Est Restore	Time 11/21/16 22:30	Clear ERT Est Time to R	epair (HH:MM) ##	
	stomer/Public Infor		Est Restore	Time 11/21/16 22:30	Clear ERT Est Time to R	epair (HH:MM) ##	
Customer Notes - Cu	stomer/Public Infor		Est Restore	Time 11/21/16 22:30	Clear ERT Est Time to R	epair (HH:MM) ##	
Customer Notes - Cu Damage Location 421 SALS BRANC	stomer/Public Infor		Est Restore	Time 11/21/16 22:30	Clear ERT Est Time to R	lepair (HH:MM) ##	
Customer Notes - Cu Damage Location 421 SALS BRANC	stomer/Public Infor		Est Restore	Time 11/21/16 22:30	Clear ERT Est Time to P	epair (HH:MM) ##	
Customer Notes - Cu Damage Location 421 SALS BRANC Action Taken Repaired/Restore	stomer/Public Infor		Est Restore	Time 11/21/16 22:30	Clear ERT Est Time to F	Lepair (HH:MM) ##	
Customer Notes - Cu Damage Location 421 SALS BRANC Action Taken Repaired/Restore	stomer/Public Infor H RD ed		Est Restore	Time 11/21/16 22:30	Clear ERT Est Time to F	Lepair (HH:MM) ##	
Customer Notes - Cu Damage Location 421 SALS BRANC Action Taken Repaired/Restore Customer Respon	stomer/Public Infor H RD ed		Est Restore	Time 11/21/16 22:30	Clear ERT Est Time to P	epair (HH:MM) ##	
Customer Notes - Cu Damage Location 421 SALS BRANC Action Taken Repaired/Restore Customer Respon	stomer/Public Infor	rmation	Est Restore	Time 11/21/16 22:30	Clear ERT Est Time to F	Repair (HH:MM) ##	
Customer Notes - Cu Damage Location 421 SALS BRANC Action Taken Repaired/Restore Customer Respon	stomer/Public Infor	rmation	Est Restore		Clear ERT Est Time to F	epair (HH:MM) ##	

Evert + From	202		-Lucosanes		and the second	
Event # 2035	203		oh11862316			
vitching Plan #		Zone CO	RPORATE KU PINO	DC HARLAN		
Actions Comple	tion Actions Equipment Failure				1.14	
Event Began 11/	21/16 16:30			Est # of Cust C	Dut 8	
Event Restored 11/		Meter #		Read		
etails						
System	Overhead	•	Cause	Public Interference		
	Primary	• 1	nterrupting Device	Station Breaker		
Equipment Affected	Conductor	-	Weather	Calm/Mild		
Job Code	-	•	Remedy	Completed/Restored		
vent Note				AL DESCRIPTION OF		
Exclude This Event						
perations Event Not REPAIRED 2T OH SV	C, MADE SAFE FOR WORKERS IN AREA,	RECONNTECTED JUM	PER; REMOVED ME	TER NUMBER C383626	READING 31550 U	NABLE TO
perations Event Not REPAIRED 2T OH SV CONTACT CUSTOME	C, MADE SAFE FOR WORKERS IN AREA,	RECONNTECTED JUM	PER; REMOVED ME	TER NUMBER C383626	READING 31550 U	NABLE TO
Operations Event Not REPAIRED 2T OH SW CONTACT CUSTOME Operations Event Not Note REPAIRED 2T OH SVC	C, MADE SAFE FOR WORKERS IN AREA, R e History ;, MADE SAFE FOR WORKERS IN AREA,	RECONNTECTED JUM		Date 2016/11/21 20:53:57		Crew
Operations Event Not REPAIRED 2T OH SW CONTACT CUSTOME Operations Event Not Note REPAIRED 2T OH SVC	C, MADE SAFE FOR WORKERS IN AREA, R e History	RECONNTECTED JUM		Date		Crew
Operations Event Not REPAIRED ZT OH SW CONTACT CUSTOME Operations Event Not Note REPAIRED ZT OH SVC METER NUMBER C383	C, MADE SAFE FOR WORKERS IN AREA, R e History MADE SAFE FOR WORKERS IN AREA, 1628 READING 31550 UNABLE TO CONT/	RECONNTECTED JUM ACT CUSTOMER	PER; REMOVED	Date 2016/11/21 20:53:57	2	Crew 8601_Bradley_Ho
Operations Event Not REPAIRED ZT OH SW CONTACT CUSTOME Operations Event Not Note REPAIRED ZT OH SVC METER NUMBER C383	C, MADE SAFE FOR WORKERS IN AREA, R e History MADE SAFE FOR WORKERS IN AREA, 1628 READING 31550 UNABLE TO CONT/	RECONNTECTED JUM	PER; REMOVED	Date		Crew 8601_Bradley_Ho

OMS Event Details Report

12/2/2016 10:13:32 AM

Para	meters
Date Begin:	
Date End:	
Premise ID:	
Outage ID:	417825
Company:	
OpCenter:	
Local Area:	
Substation:	
Circuit:	
Show Outages:	Y
Show Non-Outages:	
Show Crews:	Y

					OMS Event Details Report			12/2/2 10:13 3	
remise ID	Transformer	Device Code	inc#	Begin Time	Est Restored Time	Restored Time	<u>Duration</u>	Cust Out	DTS #
		xfm14427992 (OP 1524470)	#- 417825	8/4/2006 5:21:27 PM	м	8/4/2006 7:30:49	PM 129.37	1	
ompany	OpCenter	Local Area	Substation	Circuit	Outage Location	Job Code	Trouble Code	Exclude from S	AIDI/SAIFI
κυ	PINOC	HARLAN	EVARTS	4475	421 RED BUD HILL	-	WDH-WIR-OUT-VE	н ү	
<u>System</u> Overhead	<u>Type</u> Service	Action Completed	<u>Cause</u> Customer Equipment	Fallure Device Other/Unknown	Interrupt Device Other/Unknown	Weather Calm/Mild	Previous Event	Subsequen	<u>t Event</u>
Customer Not	tes/Customer/Publi	ic Information			ons Event Note History svc neutral/ neighbor moving trai	ler hooked into svc. N	O KU ISSUE HERE		
Step Number	Time of Ope	eration Tir	ne Reported	Description of Event	Action				
1	8/4/2006 5:23	3:57 PM 8/4/20	06 5:23:57 PM	Event given Proba status	able Service Outage				
2	8/4/2006 5:29	9:37 PM 8/4/20	06 5:29:37 PM	Crew 2646 dispat	ched				
3	8/4/2006 5:29	9:52 PM 8/4/20	06 5:29:52 PM	Crew 2646 releas	sed				
4	8/4/2006 5:36	6:50 PM 8/4/20	06 5:36:50 PM	Crew 3428 dispat	tched				
-									

		Sec. 1	100 - C		al said	
				1		
			E	OMS ivent Details Report		12/2/2016 10:13:32 AM
Partial Step	Restoration Time	Device	Nominal	State	Operator	Cust Restored






































































168=	KU.	Evact
PPL comp		

PSC Regulatory Inspection Form

Utility:	Ku	Operations Center:	Pineville	Circuit #: _	4475
Inspector:	ED270	84	Date Completed:	3-23	-15

Deficiencies:

The inspection form is intended to identify problems that could have an adverse effect on safety, customer service, orderly and efficient system operation, or a combination of these. To achieve this goal, the inspection program is structured to assure that assets are properly inspected, apparent deficiencies identified, and records kept to satisfy the requirements of the PSC regulations and company procedures. Inspectors are encouraged to review annually the EOM&I-SI-001 and to use this form to ensure deficiencies are recorded in a consistent format for the following areas of inspection:

A.1.0 Guidelines for Overhead Inspection (conditions to be reported) A.1.1 Structures and poles A.1.2 Overhead Equipment A.1.3 Conductor Supports	Check
A.1.4 Anchors and Guys A.1.5 Primary and Secondary Conductors and Conductor Hardware A.1.6 Services	
A.2.0 Guidelines for Underground Inspection (conditions to be reported) A.2.1 Area around Equipment A.2.2 Pad/Foundation A.2.3 Cabinet/Enclosure/Tank A.2.4 Miscellaneous	, <u> </u>
5184975, 5185355, 5185362, 518680	7;
5186855, 5186870, 5186972, 5187154,	
5187180, 5187204, 5187242, 5187847,	
5187855	and the second damage of the

PSC Regulatory Inspection Form

WR#: 5184975		CONS	TRUCTION JOB CARD		3/23/2015	2:40:20 PM
GENERAL		s	ource: Work Manager			
Local District: HARCC Taxing District: XXX WR Type: MTNRPLDEON WR Sub-Type: KORCON CCS Code: Est. Hours: 2 Circuit: 4475 Description: REPLACE 15KV CU		WR Name:	ZONE EVARTS 4475 LORNA BROCK; 36 WOOD LN HARLAN, KY 606-573-4189	Requested Completion: Premise ID: Ext Sys ID: Contract Acct No: Meter Number: Meter Reading / Loc: Rd Rte: Rd Seq	2017260 /	
COMMENTS - JOB CARD - REPLA	ACE ENCLOSED C	0 & POR. ARRES	STER. ADD FIBERGLASS MIF. *****		·	
JOB ERIESING	FINANCIAL		SUBSTATION INFO			
Hazards Assoc With Job	Project #	Task #	Name: EVARTS 4475			
Special Precautions	ORDD4160	м	TLM Number: 1526504			
P. P. E. Required	ORDD4160	1	Asset Number:			
Work Procs involved						
Energy Source Controls						
COMPLETION DETAILS						
Comments:						
Comments.		100 million and				
Job Start Date: <u>5-2</u> Completion Date: <u>5-</u>	9-15 29-15	Crew Siz Man Hour	e: <u>3</u> c. s:	ompleted Bv: D Hee	Å	

WR#: 5185355	CONS	TRUCTION JOB CARD		3/23/2015 2:36:58 PM
GENERAL	s	ource: Work Manager		
Local District: HARCC Taxing District: XXX WR Type: MTNRPLDEON WR Sub-Type: KORSGW CCS Code: Est. Hours: 1 Circuit: 4475	WR Name: Job Address:	ZONE EVARTS 4475 LORNA BROCK; 36 WOOD LN HARLAN, KY	Requested Completion: Premise ID: Ext Sys ID: Contract Acct No: Meter Number: Meter Reading / Loc: Rd Rte: Rd Seq:	1
Description: KU RESAG WIRES	(
	g single phase primary line. (
JOB BRIEFING	FINANCIAL	SUBSTATION INFO	Sector and the	
Hazards Assoc With Job	Project# Task#	Name: EVARTS 4475		
Special Precautions	ORDD416O M	TLM Number: 1526504		
P. P. E. Required		Asset Number:		
Work Procs involved				
Energy Source Controls				
COMPLETION DETAILS				
Comments:				
Job Start Date: Completion Date:	1-15 Crew Size 29-15 Man Hours		Completed Bv:	tel

÷

CENERAL Local District: HARCC Taxing District: XXX WR Type: ENPOLEN WR Sub-Type: KRPOLE CCS Code: Est. Hours: 2 Circuit: 4475 Description: REMOVE POLE AND Find COMMENTS - JOB CARD - REMOVE	WR Name: Job Address: Unit No: Customer Phone Contact: Contact Phone:	RED BUD, KY 606-573-4189	Requested Completion: Premise ID: Ext Sys ID: Contract Acct No: Meter Number: Meter Reading / Loc: Rd Rte: Rd Seq: CONTROL. *****	1	
Taxing District: XXX WR Type: ENPOLEN WR Sub-Type: KRPOLE CCS Code: Est. Hours: 2 Circuit: 4475 Description: REMOVE POLE AND Fi	Job Address: Unit No: Customer Phone Contact: Contact Phone:	HWY 215 RED BUD, KY 606-573-4189	Premise ID: Ext Sys ID: Contract Acct No: Meter Number: Meter Reading / Loc: Rd Rte: Rd Seq:	1	
WR Type: ENPOLEN WR Sub-Type: KRPOLE CCS Code: Est. Hours: 2 Circuit: 4475 Description: REMOVE POLE AND Fi	Unit No: Customer Phone Contact: Contact Phone:	RED BUD, KY 606-573-4189	Ext Sys ID: Contract Acct No: Meter Number: Meter Reading / Loc: Rd Rte: Rd Seq:	I	
WR Sub-Type: KRPOLE CCS Code: Est. Hours: 2 Circuit: 4475 Description: REMOVE POLE AND Fi	Customer Phone Contact: Contact Phone:	606-573-4189	Contract Acct No: Meter Number: Meter Reading / Loc: Rd Rte: Rd Seq:	I	
CCS Code: Est. Hours: 2 Circuit: 4475 Description: REMOVE POLE AND Fi	Customer Phone Contact: Contact Phone:	606-573-4189	Meter Number: Meter Reading / Loc: Rd Rte: Rd Seq:	1	
Est. Hours: 2 Circuit: 4475 Description: REMOVE POLE AND F	Contact: Contact Phone:		Meter Reading / Loc: Rd Rte: Rd Seq:	1	
Circuit: 4475 Description: REMOVE POLE AND F	Contact Phone:		Rd Rte: Rd Seq:		
Description: REMOVE POLE AND F	ILL HOLE		Rd Seq:		
		CONDARY. (LIGHT DONT EXIST) TRAFFIC	×		e <u>en a</u> deservand
		CONDARY. (LIGHT DONT EXIST) TRAFFIC	CONTROL.		. <u> </u>
COMMENTS - JOB CARD - REMOVE	30FT POLE AND 120FT 2-T SEC	CONDARY. (LIGHT DONT EXIST) TRAFFIC	CONTROL. *****		
COMMENTS - JOB CARD - REMOVE	30FT POLE AND 120FT 2-T SEC	CONDARY. (LIGHT DONT EXIST) TRAFFIC	CONTROL. *****		
	-				
	NANCIAL	SUBSTATION INFO: Name: EVARTS 4475			
Hazards Assoc With Job	Project# Task#				
	RDD4160 I	TLM Number: 1524477			
P. P. E. Required OF	RDD416O R	Asset Number:			
Work Procs involved					
Energy Source Controls					
COMPLETION DETAILS					
Comments: Acmound R	ale and 120 ft see	ondany			
	/-	P			
2 10 0	01.5	11	1	11	
- Job Start Date: 3-19-2	015 Crew Siz	e: <u>14</u> co	moleted Bv: Jony Ho	skins	
Completion Date: 3 19-7	Man Hour	s: Ø8	0		
Service Contraction of Contraction Contraction	015				

Re-DO NIC-

VR#: 5186807	CONS	TRUCTION JOB CARD		3/23/2015	2:34:48
	S	iource: Work Manager			
Local District: HARCC	WR Name:	ZONE EVARTS 4475	Requested Completion:		
Faxing District: XXX	Job Address:	125 NOLAN ST	Premise ID:	1 [*]	
WR Type: MTNRPLDEON		EVARTS, KY	Ext Sys ID:		
WR Sub-Type: KORSGW	Unit No:		Contract Acct No.		
CCS Code:	Customer Phone	an a bhainn an a bhainn an ann an ann an an ann an an ann an	Neter Number		
Est. Hours: 1	Contact:		Meter Reading / Loca		
Circuit: 4475	Contact Phone:		Rd Rte	:	
			· Rd Seq	•	
Description: KU RESAG WIRES			*	, I	
DIMMENTS - JOB CARD - SIDE TRIM T	REE AND RESAG 2-T SVC. (BOBBIE SHORT) ****			
	19 A				
· · · · ·		· · ·			
· · · · · · · · · · · · · · · · · · ·	*		1		
	Ļ	+			
Hazards Assoc With Job	dest# Tank#	Name: EVARTS 4475			
Special Precautions ORDD	4160 M	TLM Number: 1624415			
	Marchenic Commission (1997)				
TO DE Remained Til		Acest Number			
P. P. E. Required TH		Asset Number:			*
Work Proce Involved		Asset Number:			*
Work Proce Involved		Asset Number:			*
		Asset Number:			
Work Proce Involved Energy Source Controls					
Work Proce Involved Energy Source Controls	tree and Re.				
Work Proce Involved Energy Source Controls	très and Re:				
Work Proce Involved Energy Source Controls	tree and Re.				
Work Proce Involved	très and Re:				
Work Proce Involved Energy Source Controls Commente: Side trim		sug 2-T Service.			
Work Proce Involved Energy Source Controls	trée and Re:	sug 2-T Service.	mpleted Bv:		
Work Proce Involved Energy Source Controls Comments: Side trim	Crew Siz	sug 2-T Service.	moleted Bv:		

WR#: 5186855		CONS	STRUCTION JOB CARD		9/25/2015	6:53:57 PM
ENERAL	e		Source: Work Manager		¥	
Local District: HARCC		WR Name	: ZONE EVARTS 4475	Requested Completion:	6/30/2015	
Taxing District: XXX		Job Address	: OLD MIDDLETON	Premise ID	:	
WR Type: MTNRPLDEON			EVARTS, KY	Ext Sys ID		
WR Sub-Type: KRTRTR		Unit No	:	Contract Acct No:	:	
CCS Code:	c	Customer Phone	e 606-573-4189	Meter Number	W122885	
Est. Hours: 1		Contact	t:	Meter Reading / Loc	: /	
Circuit: 4475		Contact Phone	e:	Rd Rte		
				Rd Seq	:	
Description: KU TREE TRIMM	ING, OH REPAIR OR			<i>k</i>		
MARKET. MORAN SAYLOR. ****	2					
MARKET. MORAN SAYLOR. ****						
OB BRIE PING	FINANCIAL		SUBSTATION INFO:			
	-	Task#	SUBSTATION INFO. Name: EVARTS 4475			
OB BRIEFING	FINANCIAL	Task# M				
OB BRIEFING Hazards Assoc With Job Special Precautions	FINANCIAL Project #		Name: EVARTS 4475		τ.	
OB BRIT FING Hazards Assoc With Job Special Precautions P. P. E. Required	FINANCIAL Project #		Name: EVARTS 4475 TLM Number:		5	
OB BRIE PING Hazards Assoc With Job Special Precautions P. P. E. Required Work Procs involved	FINANCIAL Project #		Name: EVARTS 4475 TLM Number:		τ.	
OB BRIEFING Hazards Assoc With Job Special Precautions P. P. E. Required Work Procs involved Energy Source Controls	FINANCIAL Project #		Name: EVARTS 4475 TLM Number:		c	
OB BRIE PING Hazards Assoc With Job Special Precautions P. P. E. Required Work Procs Involved Energy Source Controls	FINANCIAL Project # ORDD4160	М	Name: EVARTS 4475 TLM Number: Asset Number:			
OB BRIE PING Hazards Assoc With Job Special Precautions P. P. E. Required Work Procs Involved Energy Source Controls	FINANCIAL Project #	М	Name: EVARTS 4475 TLM Number: Asset Number:			
OB BRIE PING Hazards Assoc With Job Special Precautions P. P. E. Required Work Procs Involved Energy Source Controls	FINANCIAL Project # ORDD4160	М	Name: EVARTS 4475 TLM Number: Asset Number:			
OB BRIE PING Hazards Assoc With Job Special Precautions P. P. E. Required Work Procs Involved Energy Source Controls	FINANCIAL Project # ORDD4160	М	Name: EVARTS 4475 TLM Number: Asset Number:		T.	
OB BRIEFING Hazards Assoc With Job Special Precautions P. P. E. Required Work Procs Involved Energy Source Controls Completion Details Comments:	FINANCIAL Project # ORDD4160	M HO R/W	Name: EVARTS 4475 TLM Number: Asset Number:	moleted By: Jana 24a	k:n6	
OB BRIEPING Hazards Assoc With Job Special Precautions P. P. E. Required Work Procs Involved Energy Source Controls Comments: . Job Start Date: 3-2	FINANCIAL Project # ORDD4160	М	Name: EVARTS 4475 TLM Number: Asset Number: C/cw	ompleted By: <u>Jany Has</u>	kins	

WR#: 5186870		CONS	TRUCTION JOB CARD			3/23/2015	3:24:28 PM
GENERAL		S	Source: Work Manager				
Local District: HARCC Taxing District: XXX		WR Name:	ZONE EVARTS 4475 SALS BR ROAD	Requeste	d Completion: Premise ID:	6/30/2015	
WR Type: NBRDOHN			EVARTS, KY		Ext Sys ID:		
WR Sub-Type: KNTR02		Unit No:		Co	ntract Acct No:		
CCS Code:		Customer Phone			Meter Number:		
Est. Hours: 1		Contact:		Meter	Reading / Loc:	1	
Circuit: 4475		Contact Phone:			Rd Rte: Rd Seq:		
Description: RM OH XFMR,15K	VA,7.2:120/240V						
COMMENTS - JOB CARD - REMO	OVE VACANT 15 K	VA, T BRACKET, O	C. O. AND POR. ARRESTER. ACROSS	FROM VICTORY BA	APTIST CHURCH	I GYM. SERVI	CE DONT
							8
JOB BRIEFING	FINANCIAL		SUBSTATION INFO				
Hazards Assoc With Job	Project#	Task#	Name: EVARTS 4475				· · · ·
Special Precautions	ORDD4160	1	TLM Number: 1524394				
P. P. E. Required	ORDD4160	R	Asset Number:		*		4
Work Procs involved							
Energy Source Controls							
COMPLETION DETAILS	Construction of the second second second						
Comments:							
Job Start Date: 5-20	1-15	Crew Siz	e: <u> </u>	Completed Bv:	Otto	d	
Completion Date: 5-2	29-15	Man Hour	s:		1		

 \mathbf{e}

.....

WR#: 5186912	CON	STRUCTION JOB CARD		3/23/2015	3:44:21 PM
	2	Source: Work Manager		10	
Local District: HARCC		e: ZONE EVARTS 4475	Requested Completion:	6/30/2015	
Taxing District: XXX		SALS BR ROAD	Premise ID:		
WR Type: ENPOLEN		EVARTS, KY	Ext Sys ID:		
WR Sub-Type: KRPOLE	Unit No	D:	Contract Acct No:		
CCS Code:	Customer Phor	e 606-573-4189	Meter Number:		
Est. Hours: 2	Contac	t	Meter Reading / Loc:	1	
Circuit: 4475	Contact Phone	8:	Rd Rte:		
			Rd Seq		
Description: REMOVE POLE A	ND FILL HOLE			.*	
COMMENTS - JOB CARD - REMA	DVE 100 FT VACANT 2-T SECUND	ARY AND 30 FT POLE. POLE NOT ON MAP.			
			~	•	
				•	
					•
Hazards Assoc With Job	Berland Toria	Name: EVARTS 4475			
L/	Projecti Tank #				
Special Precautions	CNBRD416O	TLM Number: 1524395	1	,	•
Z P. P. E. Required		Asset Number:			
Work Proce Involved					
Energy Source Controls					
	L				
			· · · · · · · · · · · · · · · · · · ·		
Comments: Kornaned Se	soother 2 pole				
			10	•	
Job Start Date:	Crow Si	200 <u>4</u> co	moleted Bv:		
••		Gardenande	ye-fi-	Construction of the local division of the lo	
Completion Date: 5-23.16	Man Hou	12:			

v

WR#: 5187154	CONSTRUCTION JOB CARD		3/24/2015	8:21:47 AM
	Source: Work Manager			
Local District: HARCC	WR Name: ZONE EVARTS 4475	Requested Completion:	6/30/2015	
Taxing District: XXX	Job Address: 107 WADE ST	Premise ID:		
WR Type: MTNRPLDEON	EVARTS, KY	Ext Sys ID:		
WR Sub-Type: KORCON	Unit No:	Contract Acct No:		
CCS Code:	Customer Phone 608-573-4189	Møter Number:		
Est. Hours: 2	Contact:	Meter Reading / Loc:		
Circuit: 4475	Contact Phone:	Rd Rte:		
		Rd Seq:		
Description: REPLACE 15KV			-	
Description, rec proc lott				
Hazards Assoc With Job	ZONES Completed Projecté Taské Name: EVARTS 4475		•	•
J Special Precautions	CRPOLE416 M TLM Number: 1526442		·	
P. P. E. Required	CRPOLE416 I Asset Number;	*		
Work Procs involved				
Z Energy Source Controls				
Comments: Rochard	CA - Appestor			
acharac		and the second		
** <u>*</u>				
Job Start Data:		leted Bv: J.H.	·	
Completion Date: (0-3-19	Man Hours:			

.....

VR#: 5187180	CONSTRUCTION JOB CARD		3/24/2015	8:36:34
	Source: Work Manager			
Local District: HARCC faxing District: XXX WR Type: MTNRPLDEON WR Sub-Type: KORCON	Job Address: 110 RAILROAD ST EVARTS, KY Unit No:	uested Completion: Prepise ID: Ext Sys ID: Contract Acct No:		
CCS Code: Est. Hours: 2 Circuit: 4475	Customer Phone 608-573-4189 Contact:	Neter Number: Neter Reading / Loc: Rd Rte: Rd Seq:		
Description: REPLACE 15KV C	CUTOUT, NOMAP, ALL			
	LACE ENCLOSED C.O. AND POR. ARRESTER. ADD MIF BRACKET. (NELDA CORNETT) C	OMMUNITY BEHIND	JERRYS MARI	KET. ******
Hazards Assoc With Job Special Precautions	Project # Imkt# Name: EVARTS 4475 ORDD4160 I TLM Number: 1526448		JERRYS MAR	KET. ******
Hazards Assoc With Job	Project # Imakt# Name: EVARTS 4475	OMMUNITY BEHIND	JERRYS MAR	KET. ******
Hazards Assoc With Job Special Precautions P. P. E. Réquired Work Procs Involved Energy Source Controls	Project # Imkt# Name: EVARTS 4475 ORDD4160 I TLM Number: 1526448		JERRYS MAR	KET. ******
Hazards Assoc With Job Special Precautions P. P. E. Réquired Work Procs Involved Energy Source Controls	Project # Jankt# Name: EVARTS 4475 ORDD4160 I TLM Number: 1526448 ORDD4160 M Asset Number:	- - -	JERRYS MAR	4

WR#: 5187204		CONST	RUCTION JOB CARD			3/24/2015	9:21:47 AM
		So	urce: Work Manager				
Local District: HARCC Taxing District: XXX WR Type: ENPOLEN WR Sub-Type: KIADG CCS Code: Est. Hours: 1 Circuit: 4475	Cust	WR Name: Zo lob Address: M	DNE EVARTS 4475 AIN ST VARTS, KY		ted Completion: Premise ID: Ext Sys ID: Contract Acct No: Meter Number: Ter Reading / Loc: Rd Rte: Rd Seq:	C525413	
Description: INSTALL ANCHOR	AND DOWN GUY					\$	
COMMENTS - JOB CARD - LOCA ATTACH EXISTING GUY TO STRA THREE PHASE.	TED BIEHIND EVARTS JGHTEN POLE AND S	SEWER PUMP UPPORT SINGL	STATION: NEXT POLE UP HILL FRO E PHASE TAP. RE-ATTACH OTHER	M BANK OF TRA GUY TO EXISTIN	NSFORMERS, AD	D ANCHOR A	ND RE- UPPORT
Hazards Assoc With Job Special Precautions P. P. E. Required Work Proce Involved Energy Source Controls	Project II ORDD4160	Taak#	Name: EVARTS 4475 7LM Number: 1860225 Asset Number:		*		
comments: keplaced 2	guys a install	ed I guy	zuerd		· · · · · · · · · · · · · · · · · · ·		
Job Start Date: Completion Date: <u>5-27-</u>	15	Crew Size: Man Hours:	<u> </u>	Completed Bv:	J. H.		

	CONS	TRUCTION JOB CARD			3/24/2015	9:38:31 AM
	S	ource: Work Manager				
	WR Name:	ZONE EVARTS 4475	Request	ed Completion:	8/30/2015	
	Job Address:	117 HARLAN ST		Premise ID:	•	
		EVARTS, KY		Ext Sys ID:		
	Unit No:		C	ontract Acct No:		
C	ustomer Phone	808-573-4189		Meter Number:	M432631	
	Contact:		Meta	r Reading / Loc:	1	
	Contact Phone:			Rd Rts:		
				Rd Seq:		
AND DOWN GUY		-			,	
Project.#	In the Down C	Name: EVARTS 4475				
CRPOLE416	1	TLM Number:	· 1			
		Asset Number:		2		
	1.4		1	•		
	1					
s" helix an	har	·····				· · · · · · · · · · · · · · · · · · ·
	AND DOWN GUY	S WR Name: Job Address: Unit No: Customer Phone Contact: Contact Phone: ALL ANCHOR AND RE-ATTACH EXIS ND RE-ATTACH EXISTING DOWN G	Customer Phone 606-573-4189 Contact: Contact Phone: AND DOWN GUY ALL ANCHOR AND RE-ATTACH EXISTING DOWN GUY ON SPAN GUY POLE ND RE-ATTACH EXISTING DOWN GUY ON SPAN GUY POLE. POLE ID # 5 NUM RE-ATTACH EXISTING DOWN GUY ON SPAN GUY POLE. POLE ID # 5 Nume: EVARTS 4475 CRPOLE416 I Task I Number: Asset Number:	Source: Work Manager WR Name: ZONE EVARTS 4475 Request Job Address: 117 HARLAN ST EVARTS, KY Unit No: Cr Customer Phone 608-573-4189 Contact: Contact: Meta Contact Phone: Meta AND DOWN GUY Contact: ALL ANCHOR AND RE-ATTACH EXISTING DOWN GUY ON SPAN GUY POLE. POLE ID # 5331706890. CORN NED RE-ATTACH EXISTING DOWN GUY ON SPAN GUY POLE. POLE ID # 5331706890. CORN WED RE-ATTACH EXISTING DOWN GUY ON SPAN GUY POLE. POLE ID # 5331706890. CORN NED RE-ATTACH EXISTING DOWN GUY ON SPAN GUY POLE. POLE ID # 5331706890. CORN MED RE-ATTACH EXISTING DOWN GUY ON SPAN GUY POLE. POLE ID # 5331706890. CORN MED RE-ATTACH EXISTING DOWN GUY ON SPAN GUY POLE. POLE ID # 5331706890. CORN MED RE-ATTACH EXISTING DOWN GUY ON SPAN GUY POLE. POLE ID # 5331706890. CORN	Source: Work Manager WR Name: ZONE EVARTS 4475 Requested Completion: Job Address: 117 HARLAN ST Premise ID: EVARTS, KY Ext Sys ID: Unit No: Contract Acet No: Customar Phone 608-573-4189 Meter Reading / Loc: Contact: Meter Reading / Loc: Contact: Meter Reading / Loc: Contact Phone: Rd Rts: Rd Seq: Rd Reg AND DOWN GUY ALL ANCHOR AND RE-ATTACH EXISTING DOWN GUY ON SPAN GUY POLE. POLE ID # 5331706890. CORNER ND RE-ATTACH EXISTING DOWN GUY ON SPAN GUY POLE ID # 5331706890. CORNER OF FOX ST / ND RE-ATTACH EXISTING DOWN GUY ON SPAN GUY POLE ID # 5331706890. CORNER OF FOX ST / Prosetiling Image: EVARTS 4475 CRPOLE416 I Image: EVARTS 4475 Image: EVARTS 4475 CRPOLE416 I Asset Number: Image: EVARTS 4475	Source: Work Manager Source: Work Manager WR Name: ZONE EVARTS 4475 Requested Completion: 8/30/2015 Job Address: 117 HARLAN ST Premise ID: EVARTS, KY Ext Sys ID: Unit No: Contract Acct No: Customer Phone 808-573-4189 Meter Number: M432631 Contact: Meter Reading / Loc: / Contact: Meter Reading / Loc: / Contact Phone: Rd Rec Rd Seq: Rd Seq: AND DOWN GUY

./

NR#: 5187847	CONST	RUCTION JOB CARD		3/25/2015 · 7:59:16 AM
	S	urce: Work Manager		
Local District: HARCC		ONE EVARTS 4475	Requested Completion:	6/30/2015
Taxing District: XXX	Job Address: 1	290 HWY. 215	Premise ID:	. •
WR Type: MINRPLDEON		EVARTS, KY	Ext Sys ID:	1
WR Sub-Type: KORSGW	Unit No:		Contract Acct No:	
CCS Code:	Customer Phone	306-573-4189	Meter Number:	M345595
Est. Hours: 1	Contact		Meter Reading / Loc:	: /
Circuit: 4475	Contact Phone:		Rd Rts:	:
	-		Rd Seq	:
Description: KU RESAG WIRES		,		1
			and the second state of th	an and the second second second second
COMMENTS - JOB CARD - RESA	G # 4 DUPLEX RUBBING TOP OF HO	USE. (WENDY HELTON)	ang a nang kananan di kang nang kana dan sara di Barran an di Para sa kana di kanan di kana da na nga	
			•	
			2	
L				
		•		
Hazarda Assoc With Job	Project# Task# -	Name: EVARTS 4475		
Special Precautions	ORDD4160 M	TL18 Number: 1524477		
lement	CRUCHICO M			,
P. P. E. Required TH		Asset Number:		
Work Proce involved				
Energy Source Controls				
A Cili	it of a city of	~ ^ /		
Comments: Ressared #	4 duglex Over to	of thouse.		1
		-		
		,		
Job Statt Date:	Crew Size:	c	omoleted Bv:	
- Completion	Man Hours:			
. Date: _3-2	7-15 Man Hours:		*	•
····		THU		
*		-100		

1

VR#: 5187855		CONS	STRUCTION JOB CARD		3/25/2015	8:29:19 AM
INERAL		:	Source: Work Manager			
Local District: HARCC		and the second se	: ZONE EVARTS 4475	Requested Com	oletion: 6/30/2015	
Taxing District: XXX		Job Address	: 28 CARR LN	Pre	nise ID:	
WR Type: RPRPLDEOHN			EVARTS, KY	Ext	Sys ID:	
WR Sub-Type: KNR004		Unit No	:	Contract A	Acct No:	
CCS Code:	(Customer Phone	e 606-573-4189	Meter N	lumber: 2007258	
Est. Hours: 2		Contact	:	Meter Readin	g/Loc: /	
Circuit: 4475		Contact Phone	:		Rd Rte:	
					Rd Seq:	
Description: INST 20H 2T SE	C 1 SPAN					
OMMENTS - JOB CARD - REPL	ACE 200 FT OF 3 V	VIRE #6 POLY C	OPPER SECONDARY WITH 2-T. (STEPH	IANIE VICK) *****		
				1	/	
					/	
			Disney		. /	
					V	
BERIEFING	FINANCIAL		SUBSTATION INFO		an and the state of the state o	
Hazards Assoc With Job	Project #	Task#	Name: EVARTS 4475			
Special Precautions	ORDD4160	1	TLM Number:			
P. P. E. Required	01004100		Asset Number:			
			Asset Number.			
Work Procs involved						
				1		
Energy Source Controls						
IMPLETION DE FAILS						
IMPLETION DE FAILS						
Energy Source Controls						
IMPLETION DE FAILS						
IMPLETION DE FAILS	27-15	Crew Siz	ze:3	Completed By:	Has Kim	5
Job Start Date: 5-	<u>27-15</u> 27-15			Completed Bv:	Has Kim	S

Part 2: Safety Rules for Overhead Lines

T-232-1(m)

- The clearance over rivers, streams, and canals shall be based upon the largest surface area of any 1.6 km long segment that includes the crossing. The clearance over a canal, river, or stream normally used to provide access for sailboats to a larger body of water shall be the same as that required for the larger body of water.
- Where an overwater obstruction restricts vessel height to less than the applicable reference height given in Table 232-3, the required clearance may be reduced by the difference between the reference height and the overwater obstruction height, except that the reduced clearance shall be not less than that required for the surface area on the line-crossing side of the obstruction.
- Where the U.S. Army Corps of Engineers, or the state, or surrogate thereof has issued a crossing permit, clearances of that permit shall govern.

@See Rule 2341 for the required horizontal and diagonal clearances to rail cars.

- @For the purpose of this rule, trucks are defined as any vehicle exceeding 2.45 m in height. Areas not subject to truck traffic are areas where truck traffic is not normally encountered nor reasonably anticipated.
- Communication cables and conductors may have a clearance of 4.6 m where poles are back of curbs or other deterrents to vehicular traffic.
- When designing a line to accommodate oversized vehicles, these clearance values shall be increased by the difference between the known height of the oversized vehicle and 4.3 m.

Table 232-1-

Vertical clearance of wires, conductors, and cables above ground, roadway, rail, or water surfaces

(Voltages are phase to ground for effectively grounded circuits and those other circuits where all ground faults are cleared by promptly de-energizing the faulted section, both initially and following subsequent breaker operations. See the definitions section for voltages of other systems.

See Rules 232A, 232B1, 232C1a, and 232D4.)

	Insulated communication conductors and cable; messengers; overhead shield/ surge-protection	Noninsulated	Supply cables over 750 V meeting Rule 230C2; open supply conductors,	Open supply conductors, over 750 V to 22 kV; unground- ed portions of guys meeting Rules 215C4, 215C5, and 279A1 exposed to 750 V to 22 kV ⁹ *** (m) (++)	Trolley and electrified railroad contact conductors and associated span or messenger wires	
Nature of surface underneath wires, conductors, or cables	wires; grounded guys; ungrounded portions of guys meeting Rules 215C4, 215C5, and 279A1 exposed to 0 to 300 V ⁽⁰⁾ ⁽⁰⁾ ; neutral conductors meeting Rule 230E1; supply cables meeting Rule 230C1 (m) (A)	communication conductors; supply cables of 0 to 750 V meeting Rule 230C2 or 230C3 (ft)	0 to 750 V ⁽¹⁾ ; ungrounded portions of guys meeting Rules 215C4, 215C5, and 279A1 exposed to over 300 V to 750 V ⁽¹⁾ ⁽²⁾ ⁽³⁾		0 to 750 V to ground (ft)	Over 750 V to 22 kV to ground (ft)
1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	Where wires, condu	etors, or cables cro	ss over or overha	ing		1
I. Track rails of railroads (except electrified rail- roads using overhead trolley ① ③ ④	23.5	24.0	24.5	26.5	22.0 ®	22.0
2. Roads, streets, and other areas subject to truck traffic	15.5	16.0	16.5	18.5	18.0 ^①	20,0 3
3. Driveways, parking lots, and alleys	15.5 🕑 🕸	16.0 ^① ^①	16.5 ®	18.5	18.0 1	20.0



ft

Table 232-1- (continued)

Vertical clearance of wires, conductors, and cables above ground, roadway, rail, or water surfaces

(Voltages are phase to ground for effectively grounded circuits and those other circuits where all ground faults are cleared by promptly de-energizing the faulted section, both initially and following subsequent breaker operations. See the definitions section for voltages of other systems.

See Rules 232A, 232B1, 232C1a, and 232D4.)

Nature of surface underneath wires, conductors, or cables	Insulated communication conductors and cable; messengers; overhead shield/ surge-protection wires; grounded portions of guys meeting Rules 215C4, 215C5, and 279A1 exposed to 0 to 300 V W W m; neutral conductors meeting Rule 230C1 (m) ((4)	Noninsulated communication conductors; supply cables of 0 to 750 V meeting Rule 230C3 (ft)	Supply cables over 750 V meeting Rule 230C2; or 230C3; open supply conductors, 0 to 750 V ⁰ ; ungrounded portions of guys meeting Rules 215C4, 215C5, and 279A1 exposed to over 300 V to 750 V ⁰ % %	Open supply conductors, over 750 V to 22 kV; unground- ed portions of guys meeting Rules 215C4, 215C5, and 279A1 exposed to 750 Y to 22 kV ¹⁰ % %	Trolley and electrified railroad contact conductors and associated span or messenger wires ⁽¹⁾	
					0 to 750 V to ground (ft)	Over 750 V to 22 kV to ground (ft)
4. Other areas traversed by vehicles, such as cultivated, grazing, forest, and orchard lands, industrial sites, commercial sites, etc.	15.5	16,0	16.5	18.5	-	
 Spaces and ways subject to pedestrians or restricted traffic only 	9.5	12.0 *	12.5 ®	14.5	16.0	18.0
6. Water areas not suitable for sailboating or where sailboating is prohibited	14.0	14.5	15.0	17.0	-	-
7. Water areas suitable for sailboating including lakes, ponds, reservoirs, tidal waters, rivers, streams, and canals with an unobstructed surface area of						
a. Less than 20 acres	17.5	18.0	18.5	20.5	-	-
b. Over 20 to 200 acres	25.5	26.0	26.5	28.5	-	-
c. Over 200 to 2000 acres	31.5	32.0	32.5	34.5	-	-
d. Over 2000 acres	37.5	38.0	38.5	40.5	-	-



Copyright © 2011 IEEE. All rights reserved.

*Kentucky Utilities Company 220 W. Main Street P. O. Box 32010 Louisville, KY 40232-2010

*Kentucky Utilities Company Kentucky Utilities Company 220 W. Main Street P. O. Box 32010 Louisville, KY 40232-2010