COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

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KENTUCKY UTILITIES COMPANY)	
)	CASE NO.
ALLEGED FAILURE TO COMPLY WITH KRS 278.042)	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, 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:

- 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:
 - 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:

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

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.

 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 0 1 2017

KENTUCKY PUBLIC SERVICE COMMISSION

ATTEST:

Executive Director

APPENDIX

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

Address: 220 Main Street, Louisville, KY 40202

Contact Person: Greg Bell

Phone: 502-333-1827

Email: greg.lindsey@lge-ku.com

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

Approximate Time: 4:30 p.m.

Date PSC Notified: November 21, 2016

Approximate Time: 6:12 p.m.

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**



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:

NESC minimum clearance 16-feet

System Neutral 14-feet 2-inches:

NESC minimum clearance 15-feet 6-inches

Primary Conductor (7200 volts) 19-feet 1-inch:

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 (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.</u>

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



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





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

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@Ige-ku.com



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

Sincerely,

Jay Warren

Enclosures



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,

Vay Warren

Enclosures

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

KPSC INVESTIGATION REPORT

KU Public Contact

Type of Report

16-ED-E-018-KU

RECEIVED

Report Number

NOV 2 8 2016

Brian Claypool & Greg Lindsey

Investigators

November 21, 2016 PUBLIC SERVICE Date of Incident

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

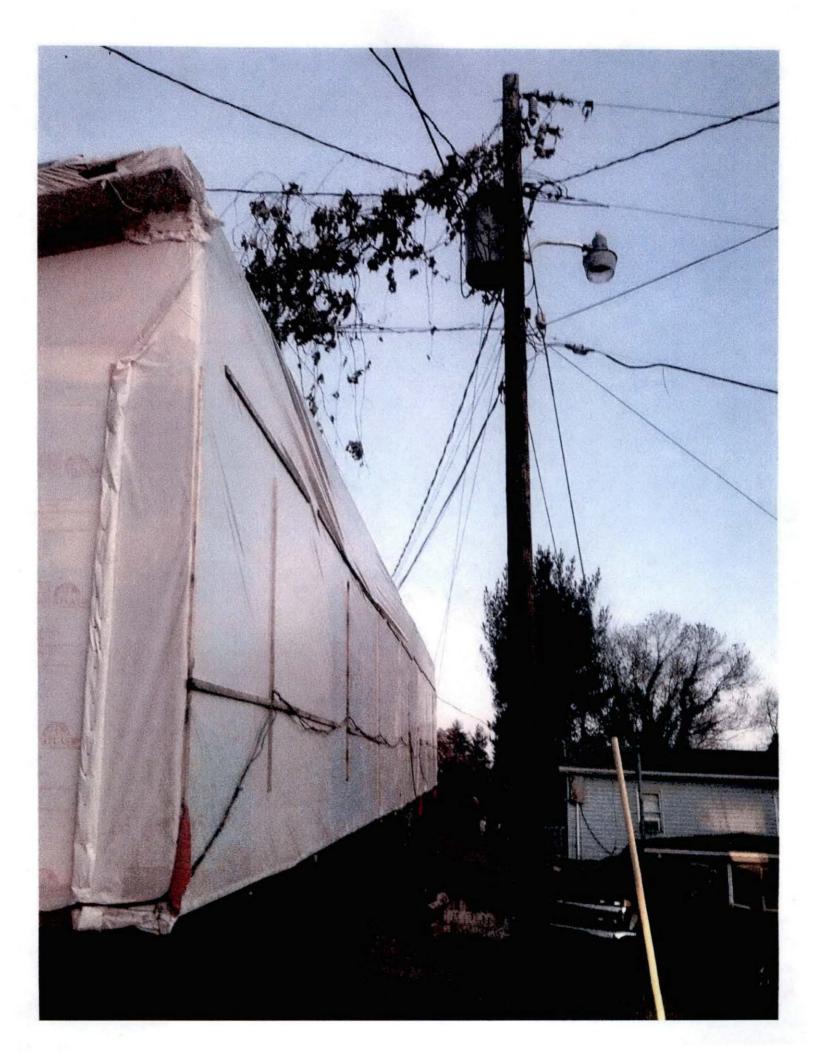
Company:

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

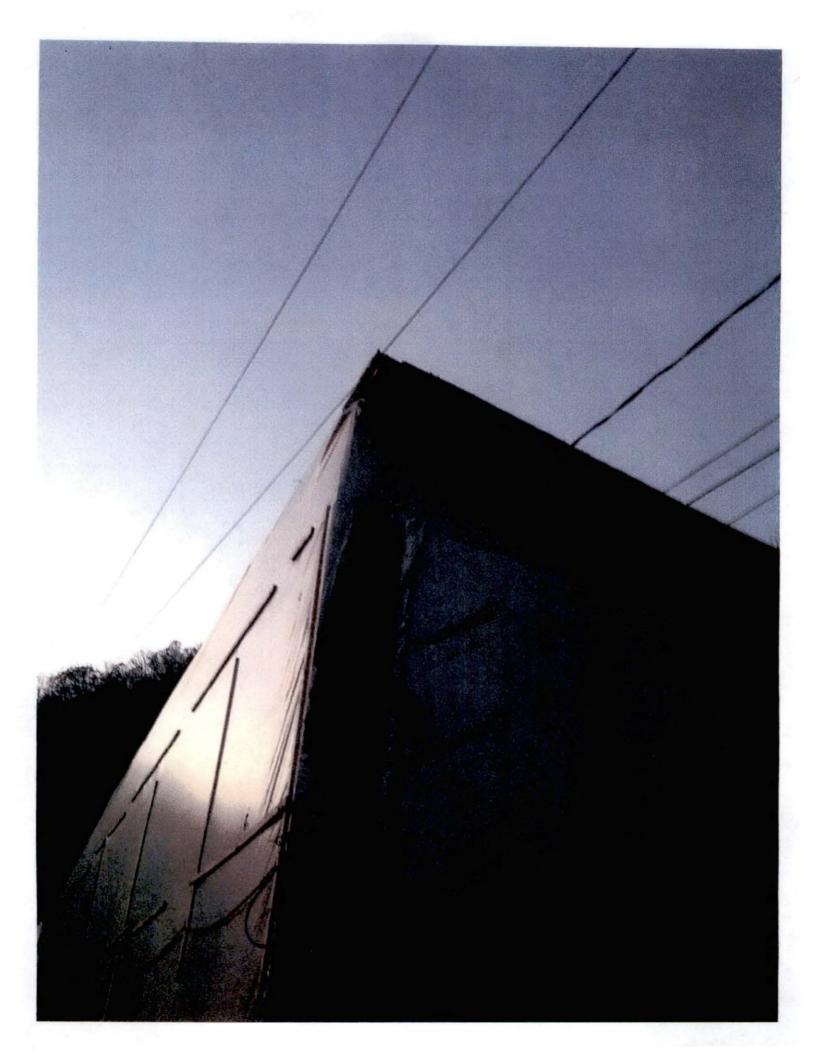


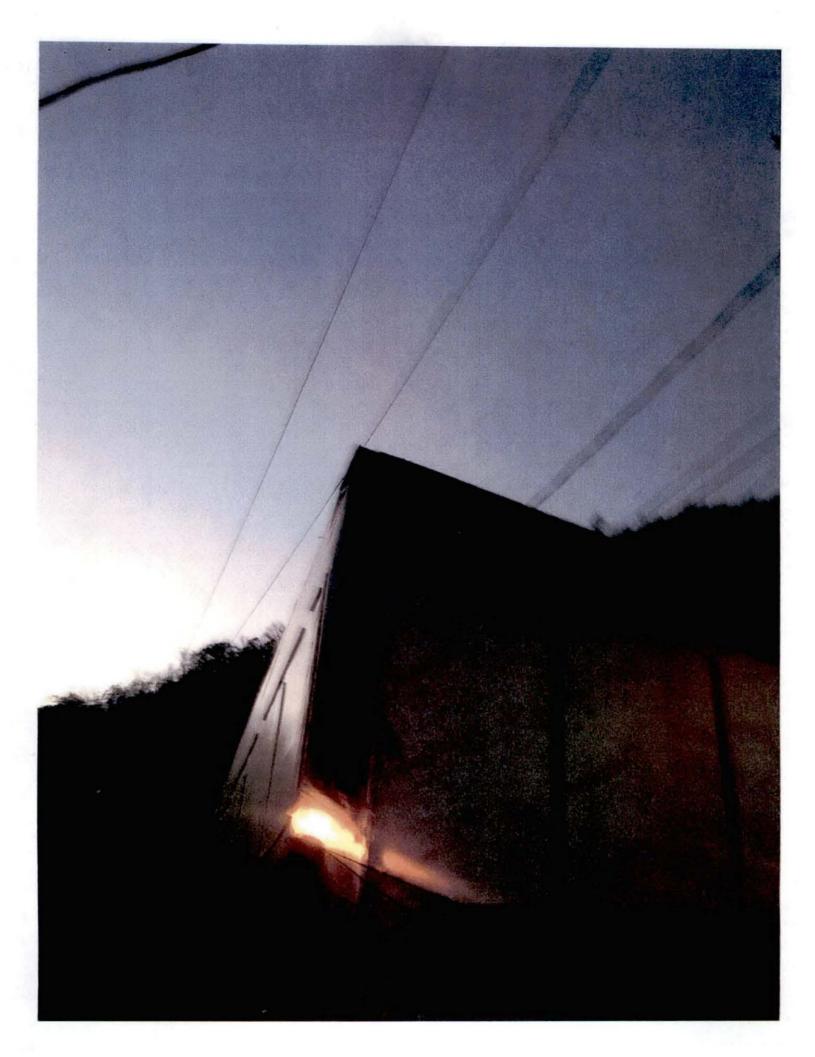


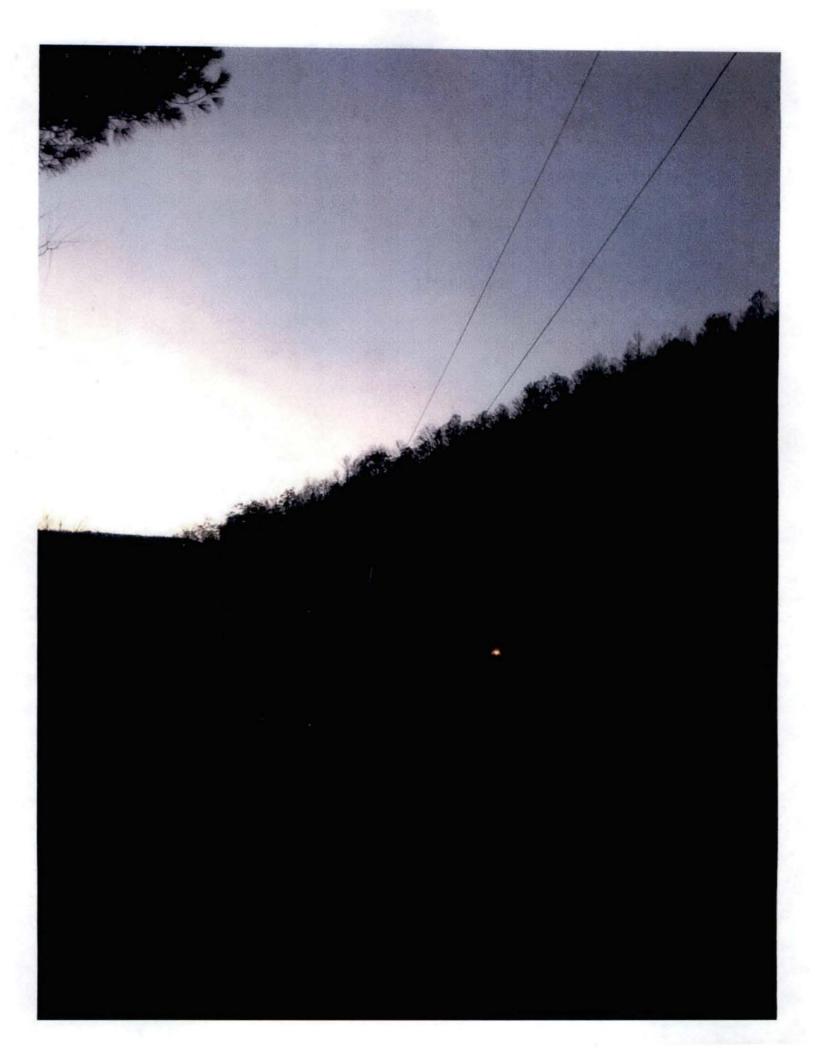
Bumble, Kentucky 606-627-1355 USDOT 2382536

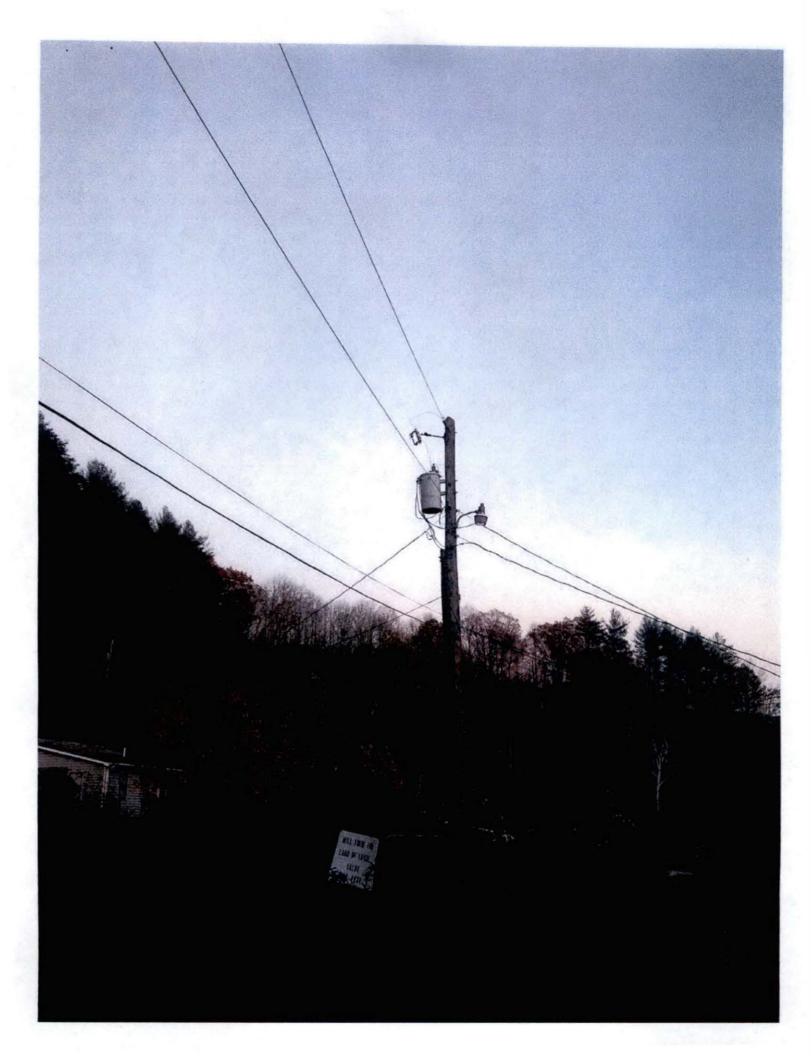


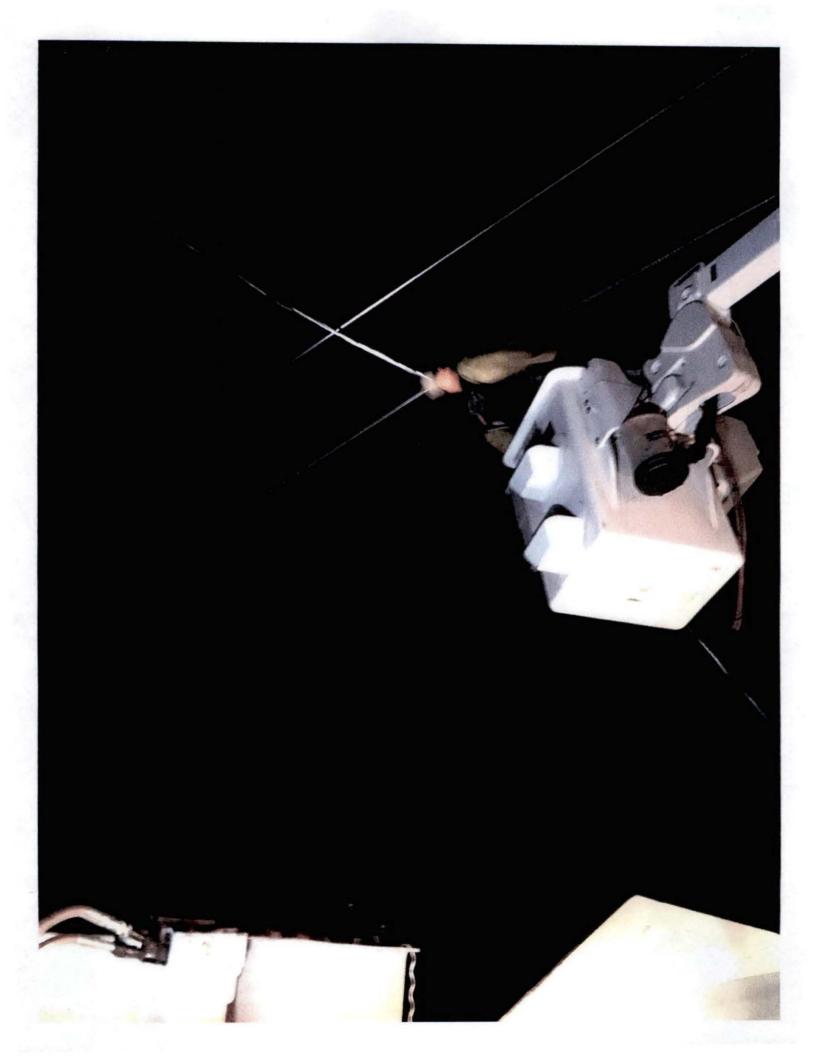


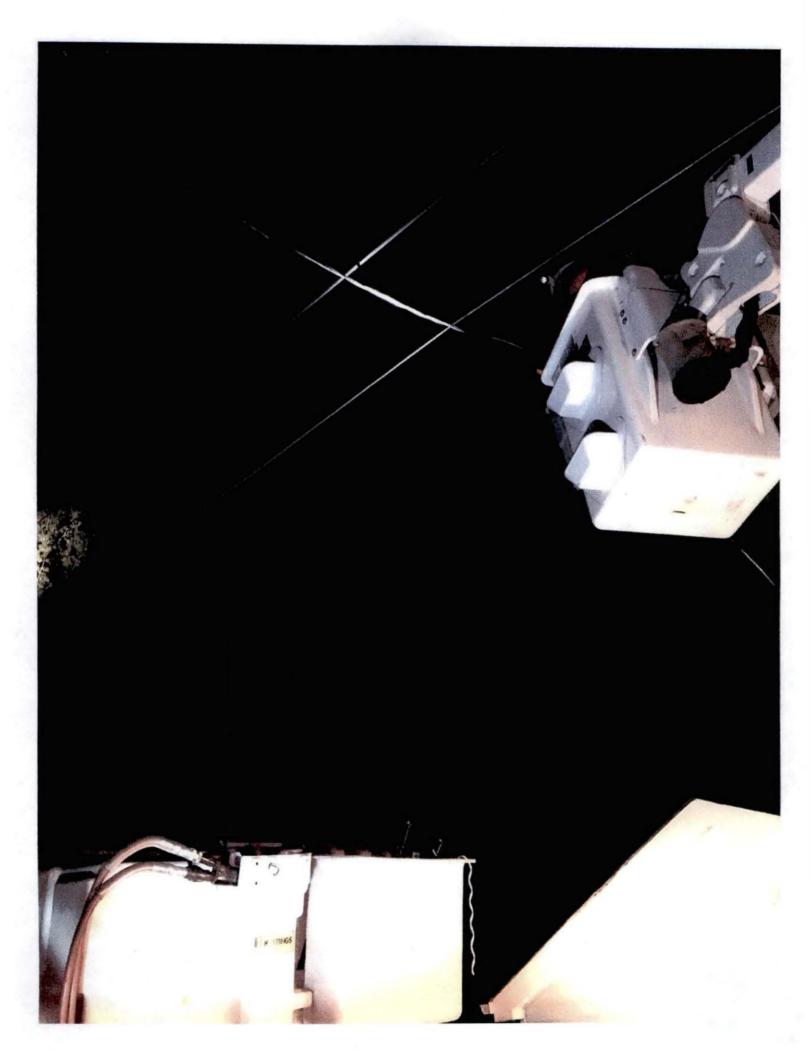


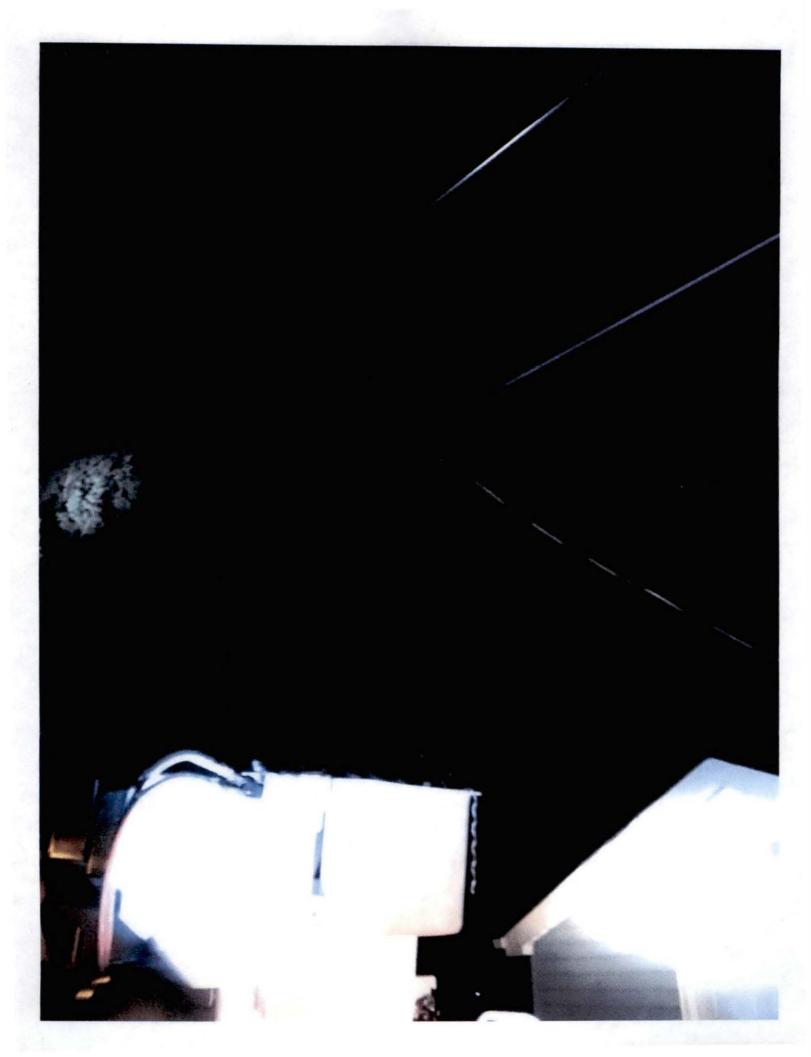




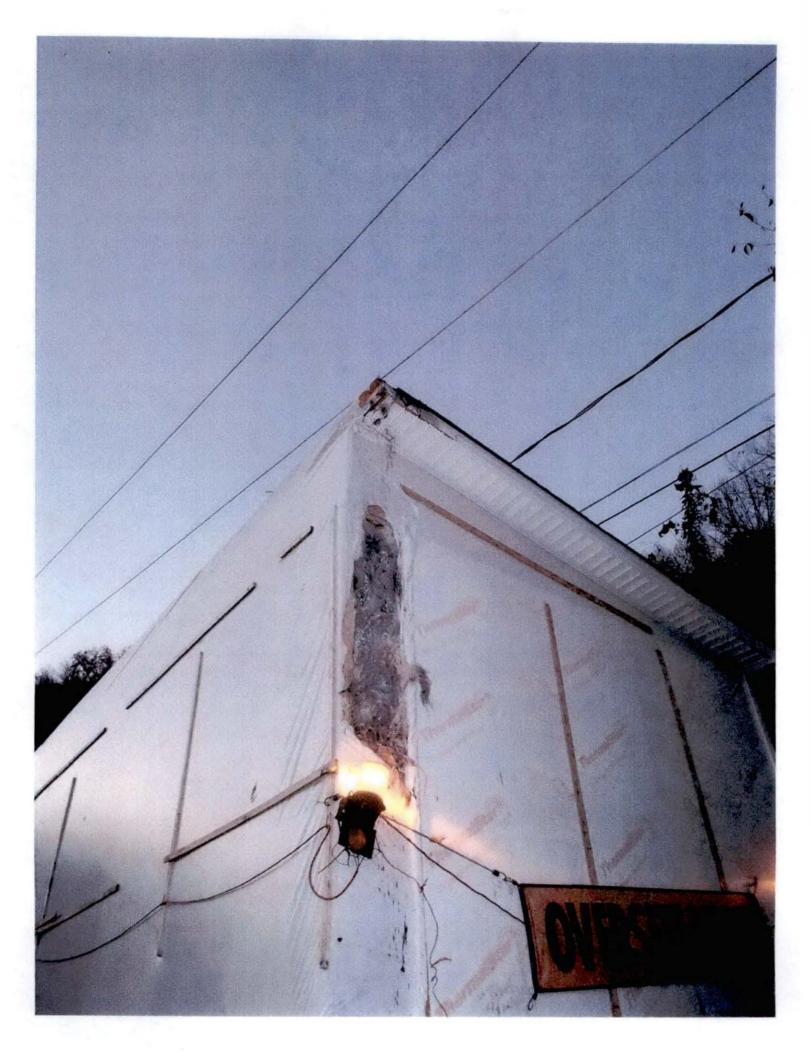








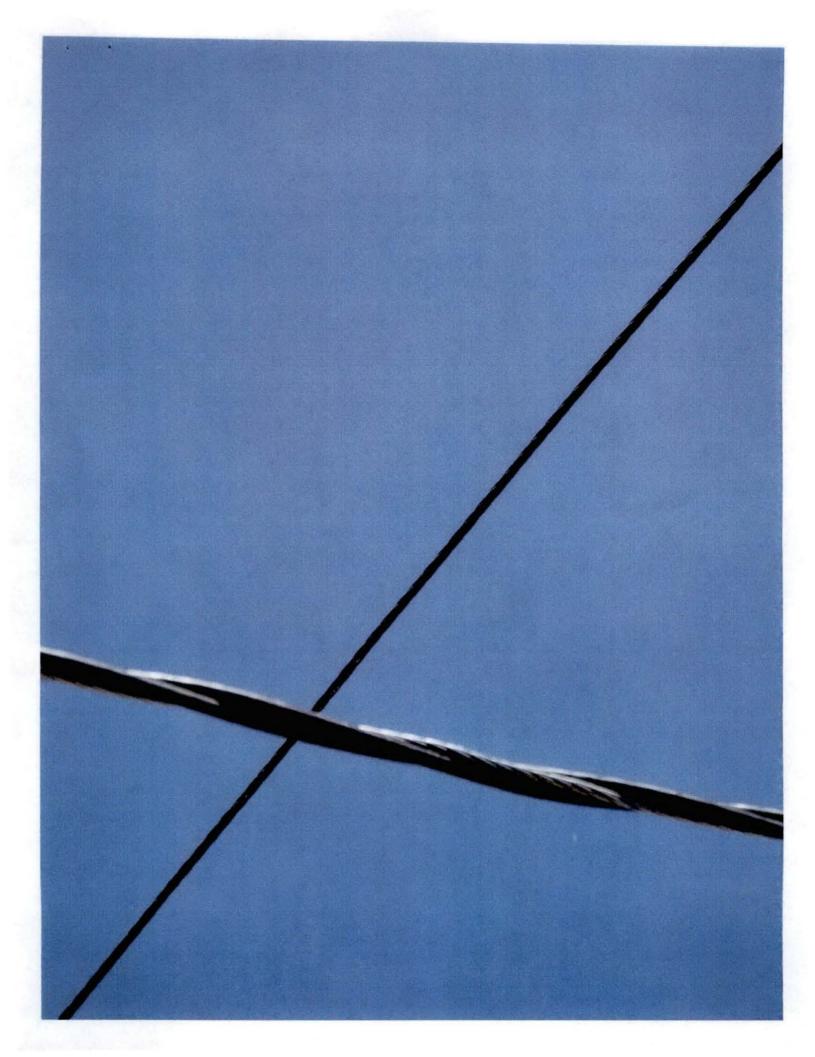




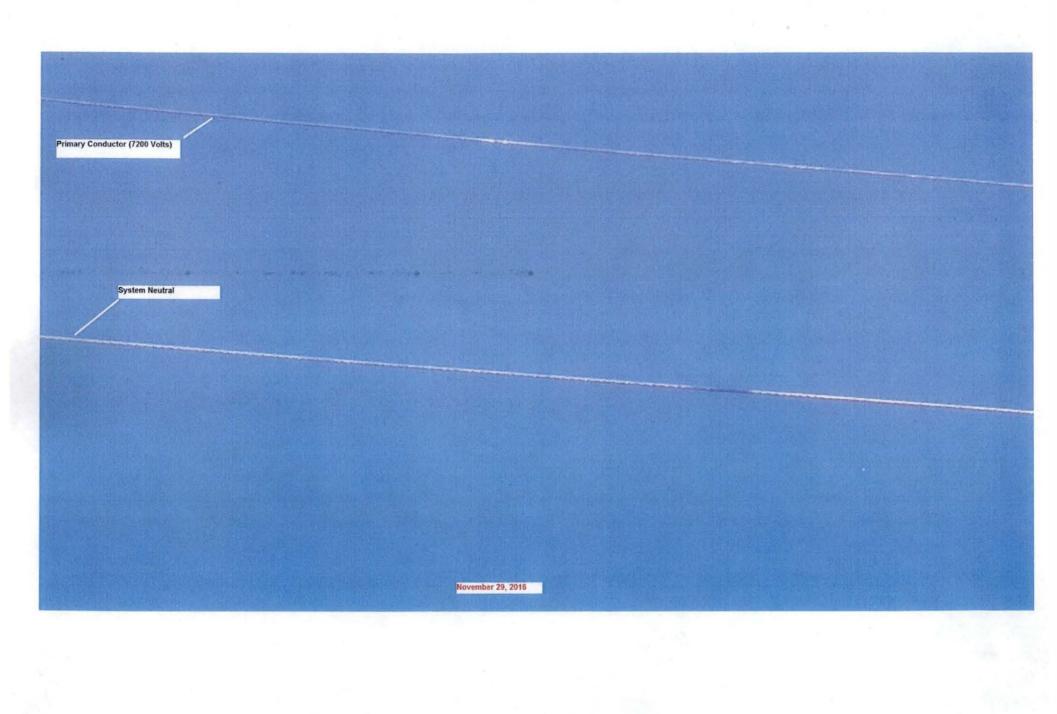


















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PUBLIC SERVICE COMMISSION

Kentucky Utilities Company Legal Department 220 W. Main St. Louisville, Kentucky 40202

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

www.lge-ku.com

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

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- · Outage Report for the resulting power outage;
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- William Davis, Line Supervisor A
- Cecil Jackson, Team Leader, Pineville Operations
- · Stewart Spradlin, Manager Pineville, Norton Operations
- Chris Robinson, Counsel for Kentucky Utilities

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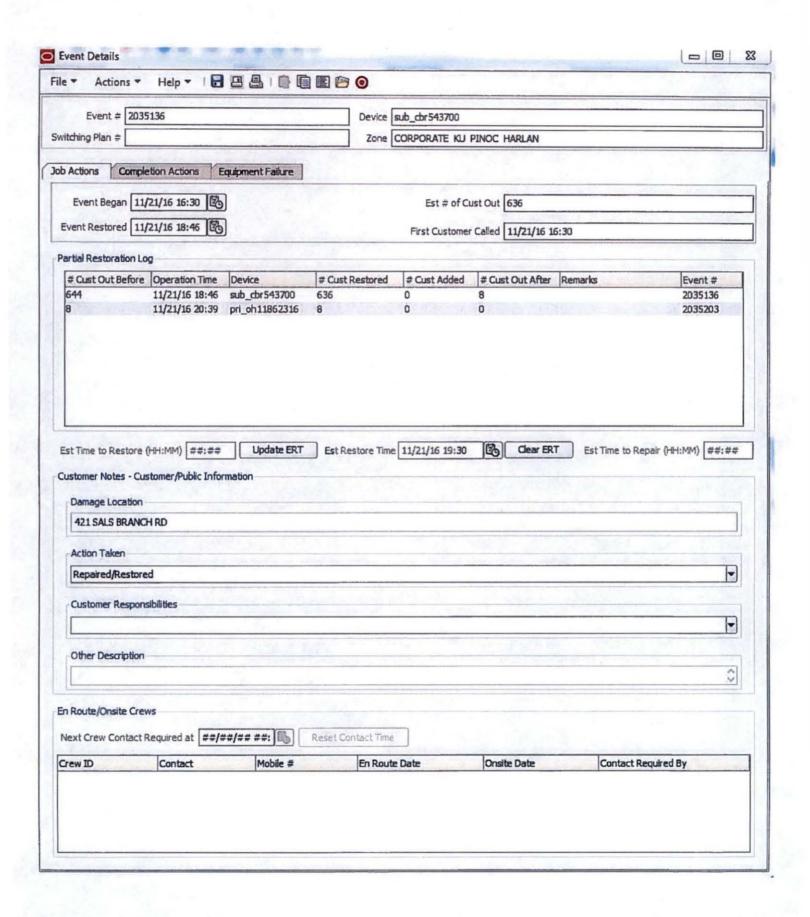


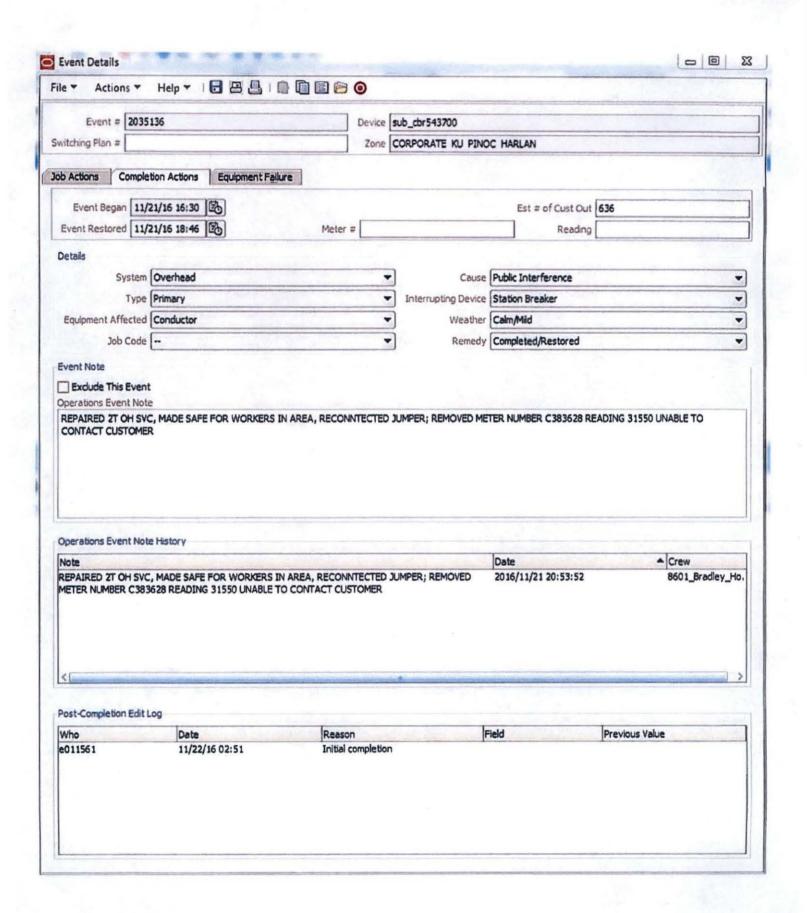
If you need additional information concerning this incident, please contact me at (502) 627-3203.

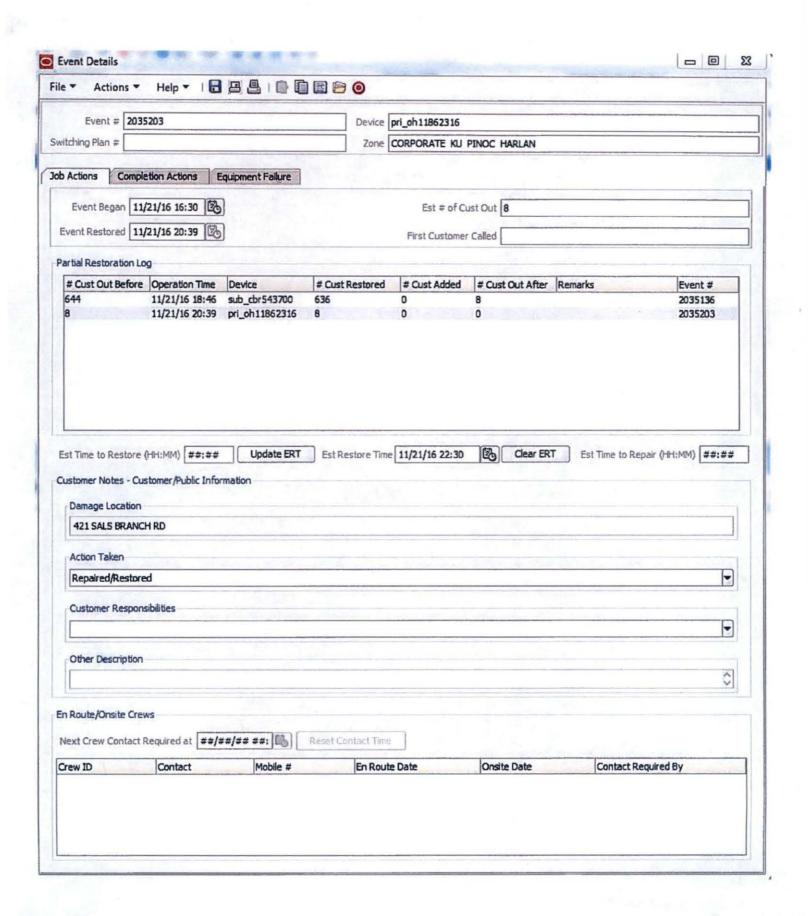
Sincerely,

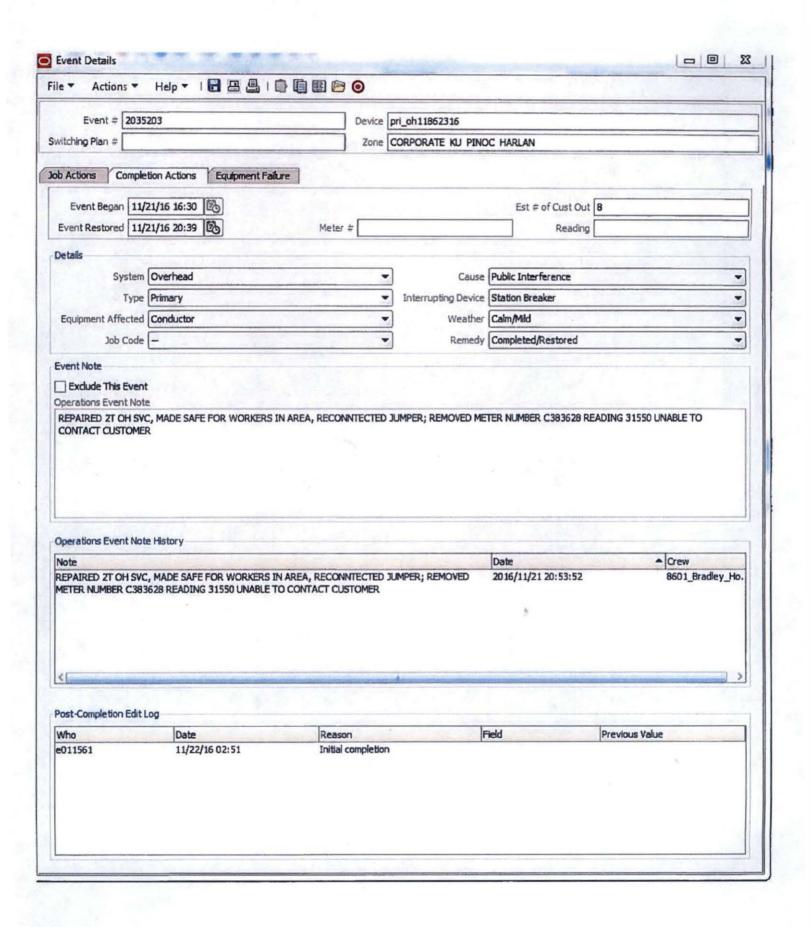
Jay Warren

Enclosures









3-	FO	-	~	-	re	

Date Begin:

Date End:

Premise ID:

Outage ID:

417825

Company:

OpCenter:

Local Area:

Substation:

Circuit:

Show Outages:

Y

Show Non-Outages:

Show Crews:

Y

Premise ID	Transformer	Device Code	Inc#	Begin Time	Est Restored Time	Restored	Time	Duration	Cust Out	DTS#
		xfm14427992 (OP# 1524470)	417825	8/4/2006 5:21:27 P	М	8/4/2006 7:3	30:49 PM	129.37	1	
Company	OpCenter	Local Area	Substation	Circuit	Outage Location	Job Code	Trouble	Code	Exclude from S	AIDI/SAIFI
KU	PINOC	HARLAN	EVARTS	4475	421 RED BUD HILL	-	WDH-	WIR-OUT-VE	EH Y	
<u>System</u> Overhead	Type Service	Action Completed	Cause Customer Equipment	Fallure Device Other/Unknown	Interrupt Device Other/Unknown	Weather Calm/Mild	Previo	ous Event	Subsequen	t Event

Customer Notes/Customer/Public Information

Operations Event Note History

spliced svc neutral/ neighbor moving trailer hooked into svc. NO KU ISSUE HERE

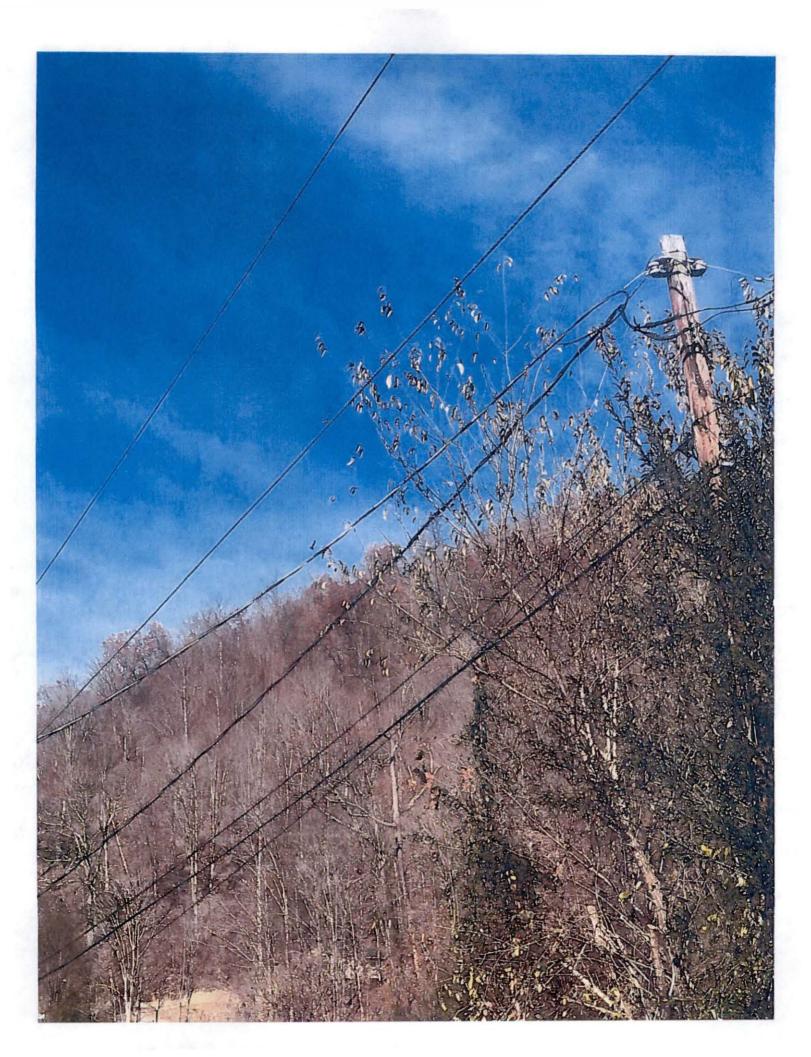
577-7	ep ımber	Time of Operation	Time Reported	Description of Event Action
	1	8/4/2006 5:23:57 PM	8/4/2006 5:23:57 PM	Event given Probable Service Outage status
	2	8/4/2006 5:29:37 PM	8/4/2006 5:29:37 PM	Crew 2646 dispatched
	3	8/4/2006 5:29:52 PM	8/4/2006 5:29:52 PM	Crew 2646 released
	4	8/4/2006 5:36:50 PM	8/4/2006 5:36:50 PM	Crew 3428 dispatched
	5	8/4/2006 7:31:57 PM	8/4/2006 7:31:57 PM	Crew 3428 released

12/2/2016 0:13:32 AM

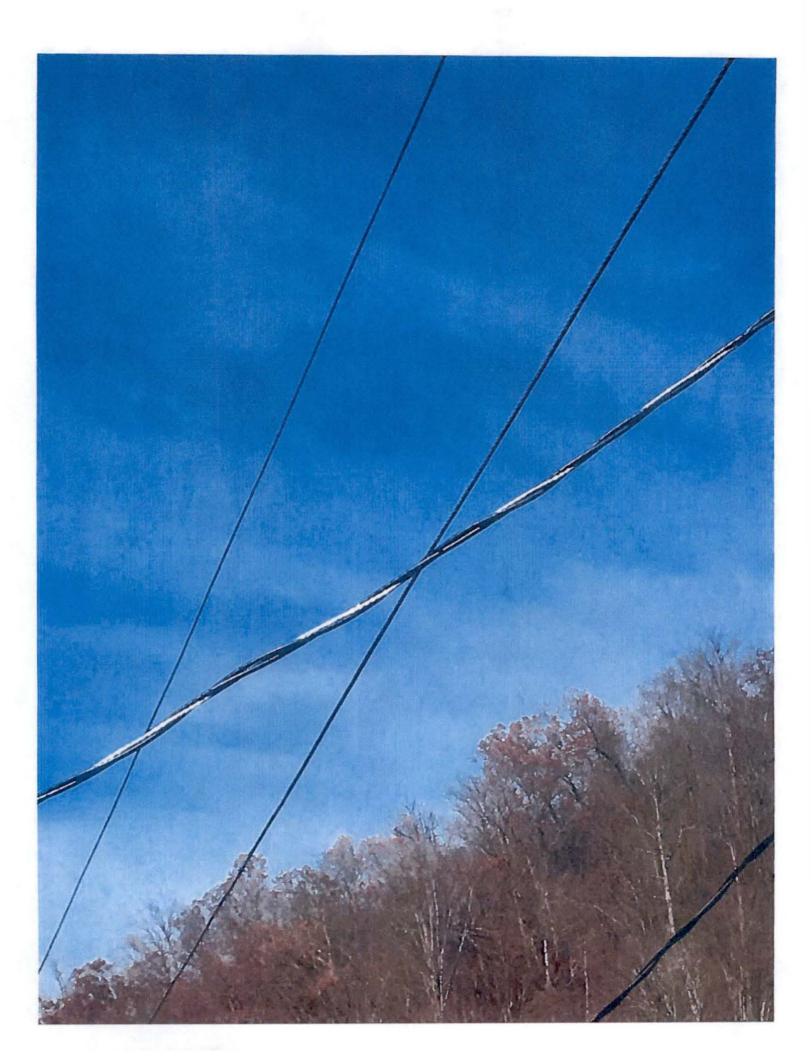
Cust Restored

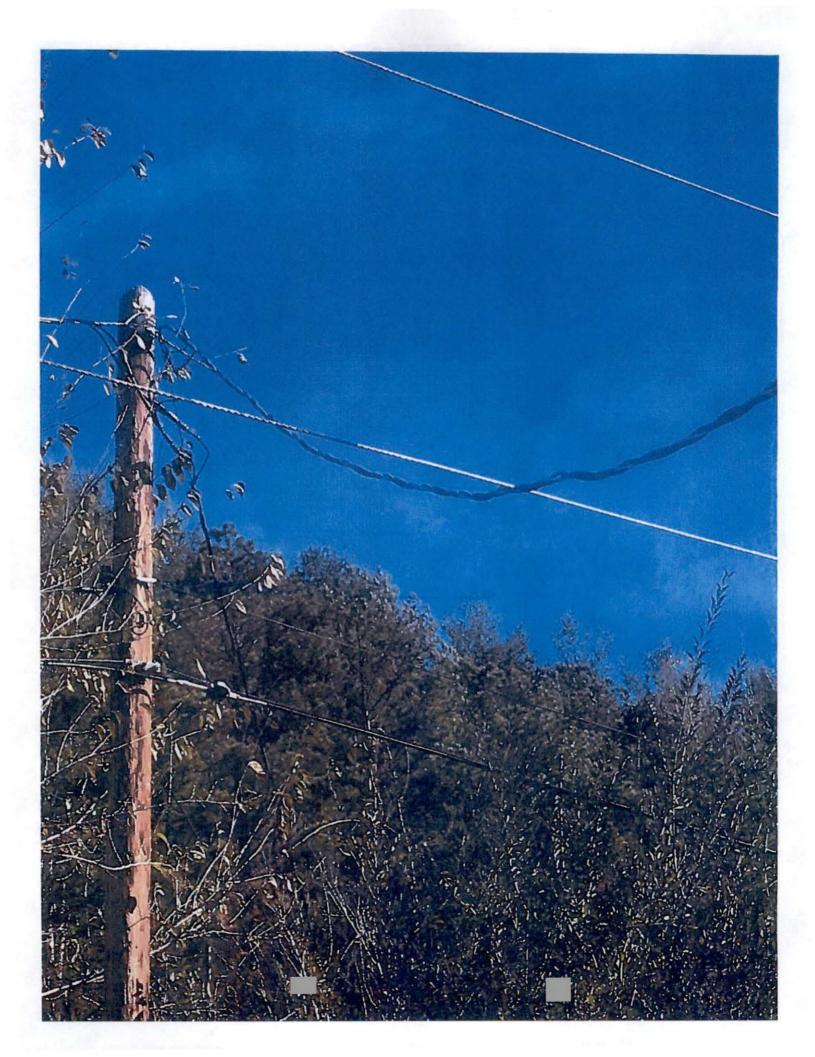
Partial Step Restoration Time Device Nominal State Operator

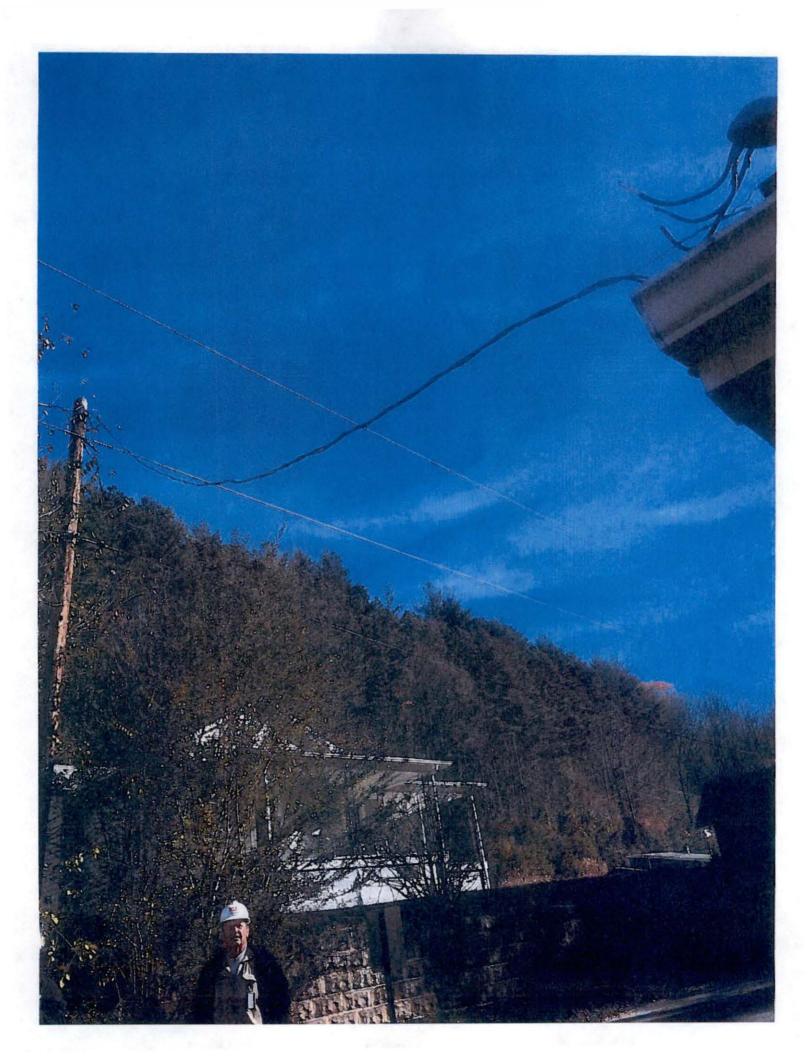
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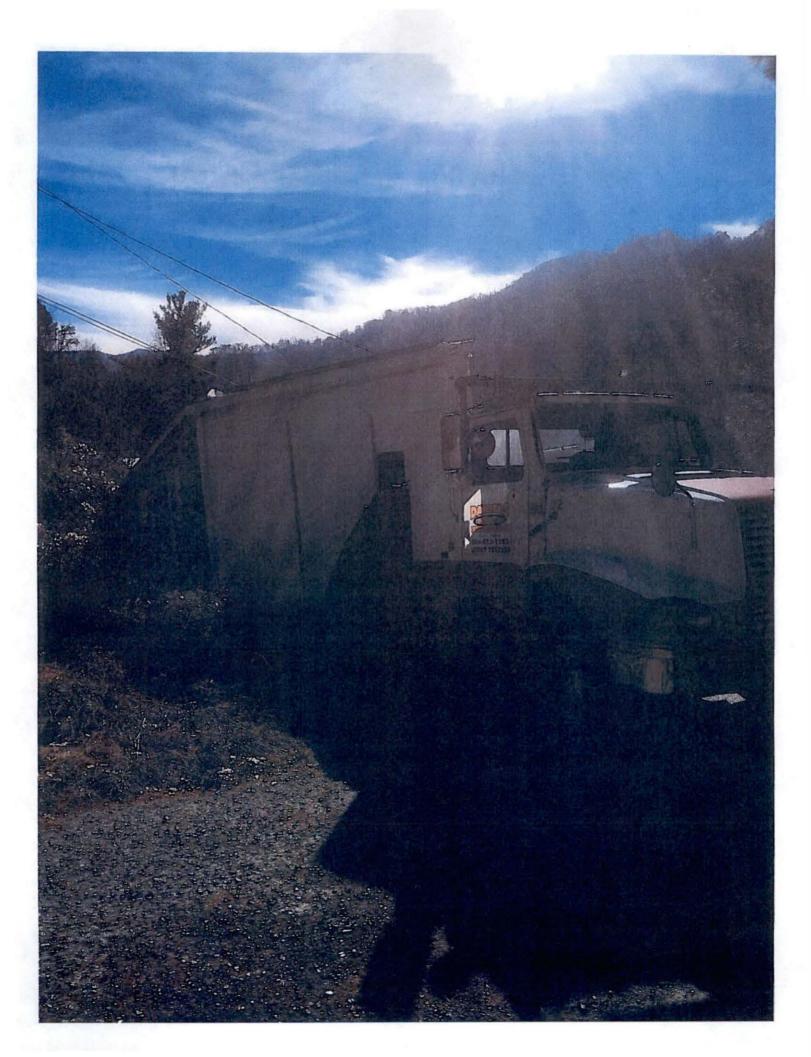


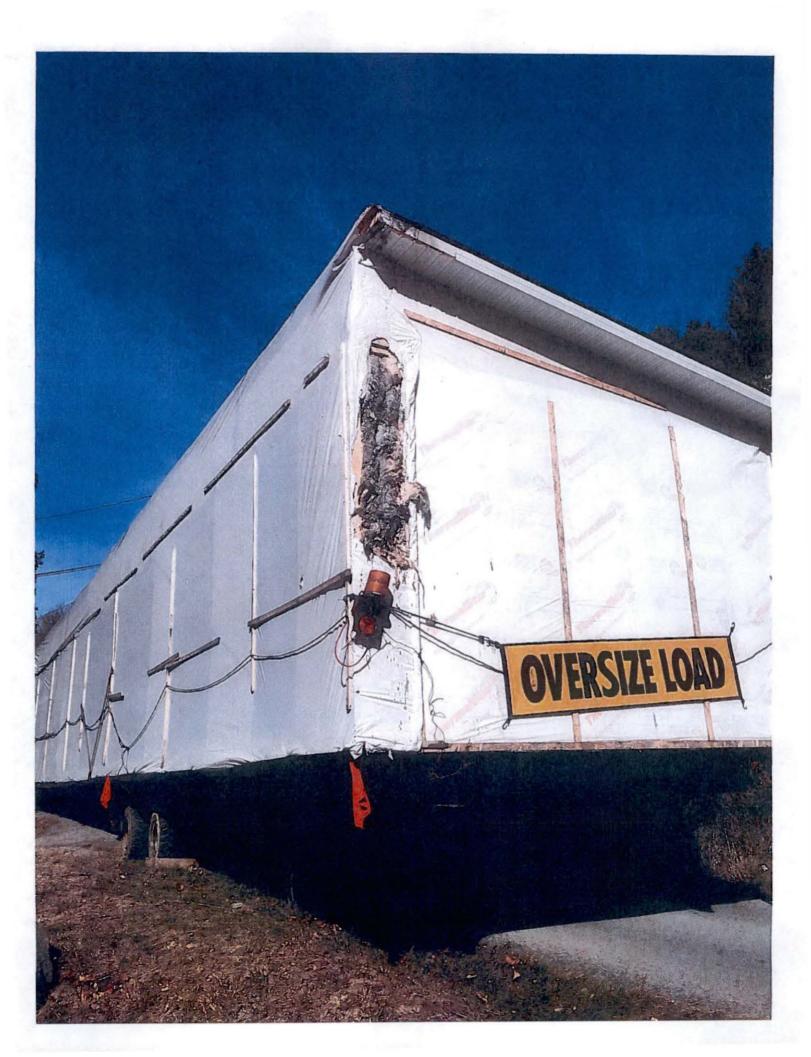






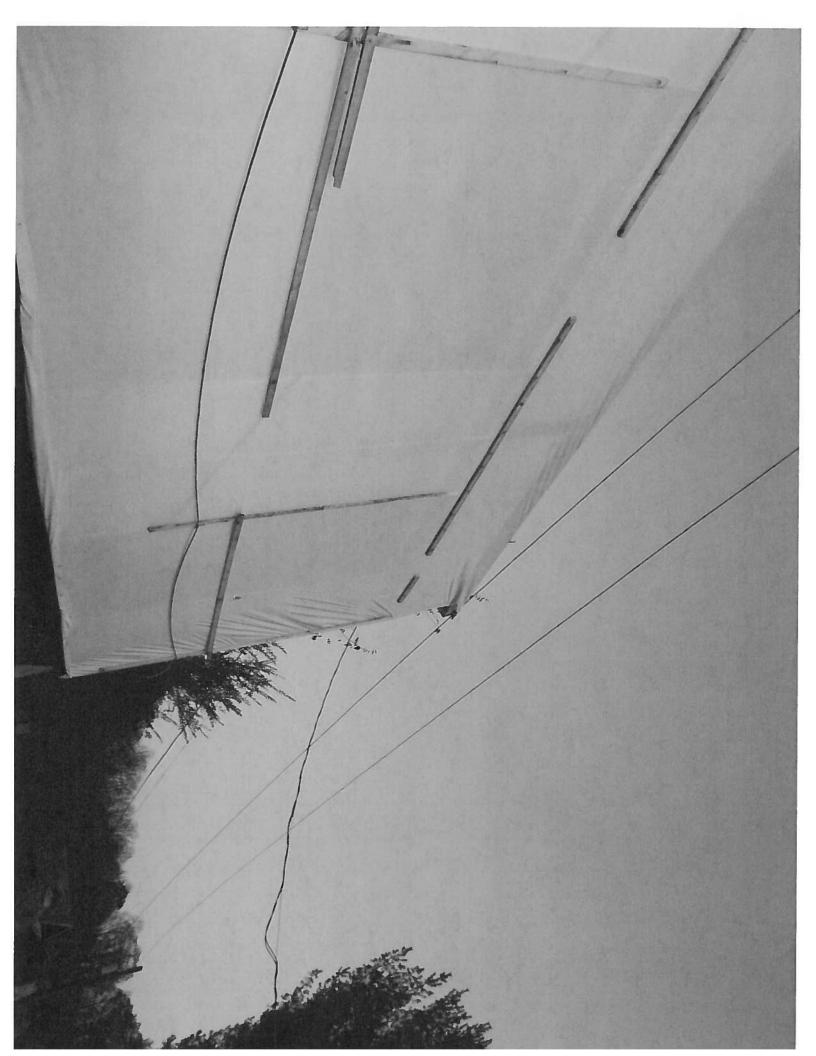




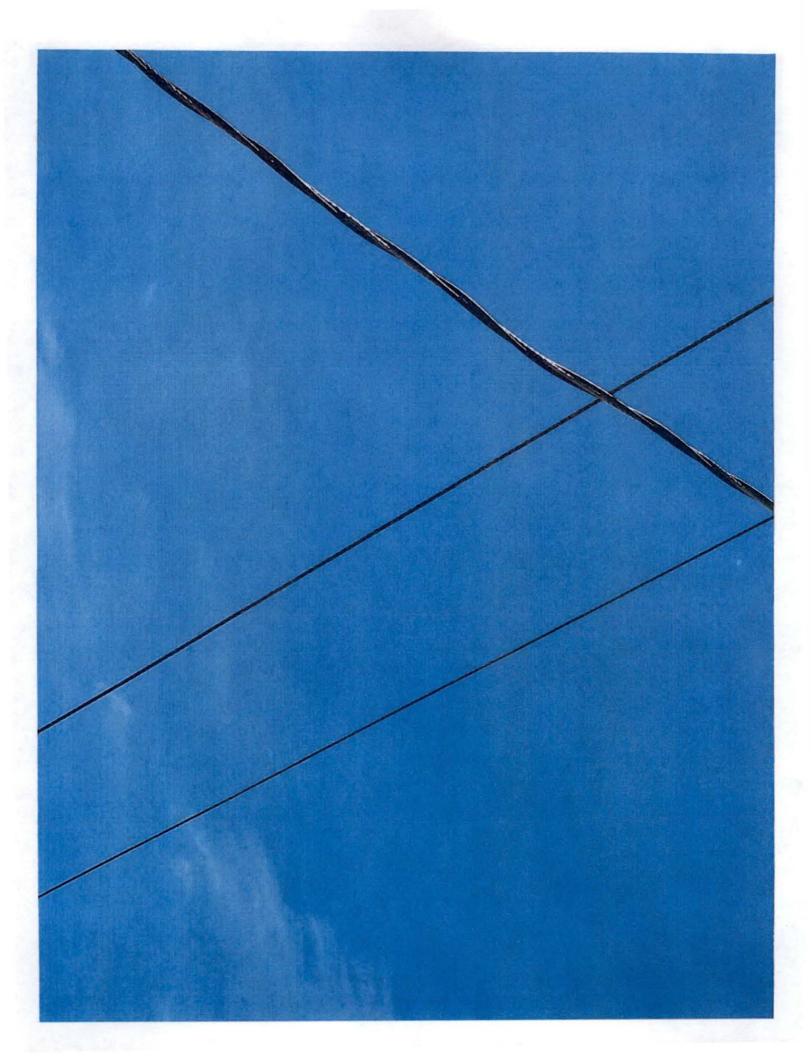


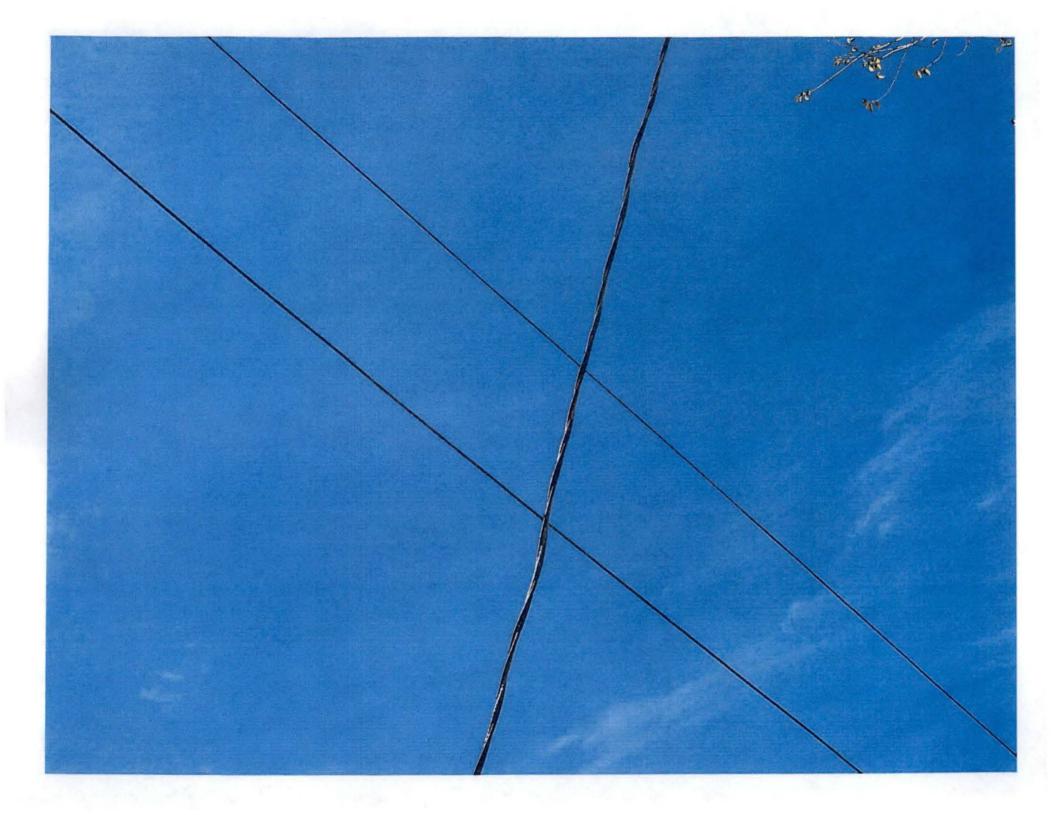


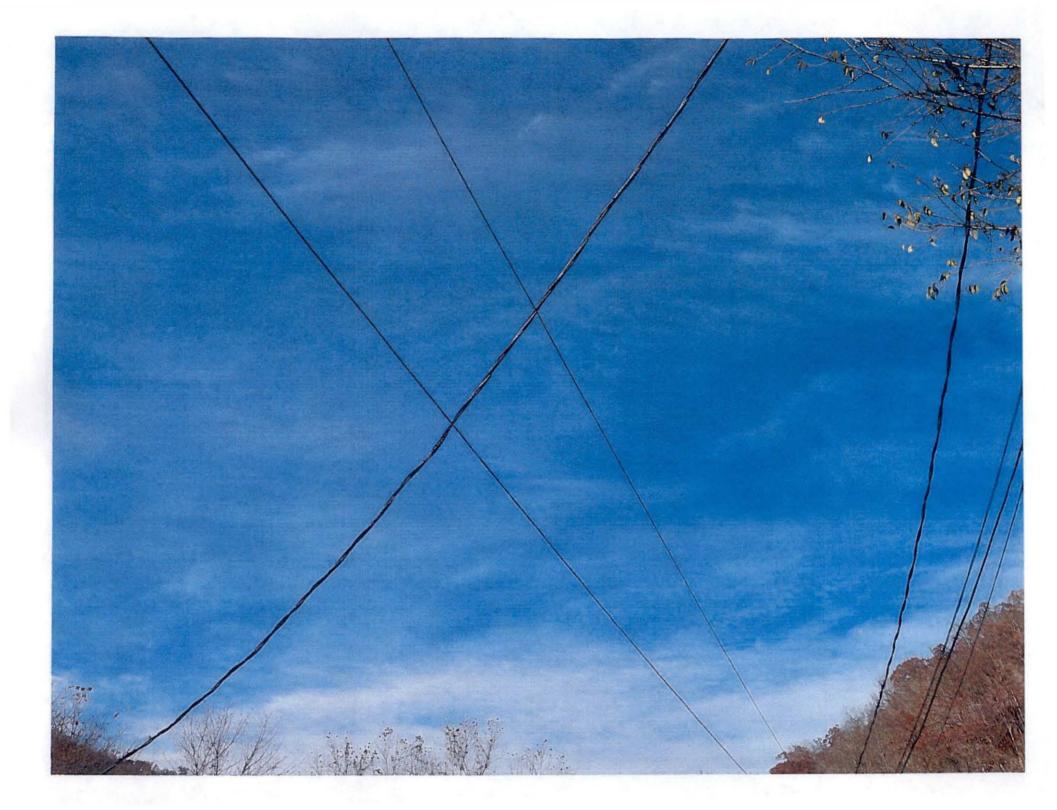


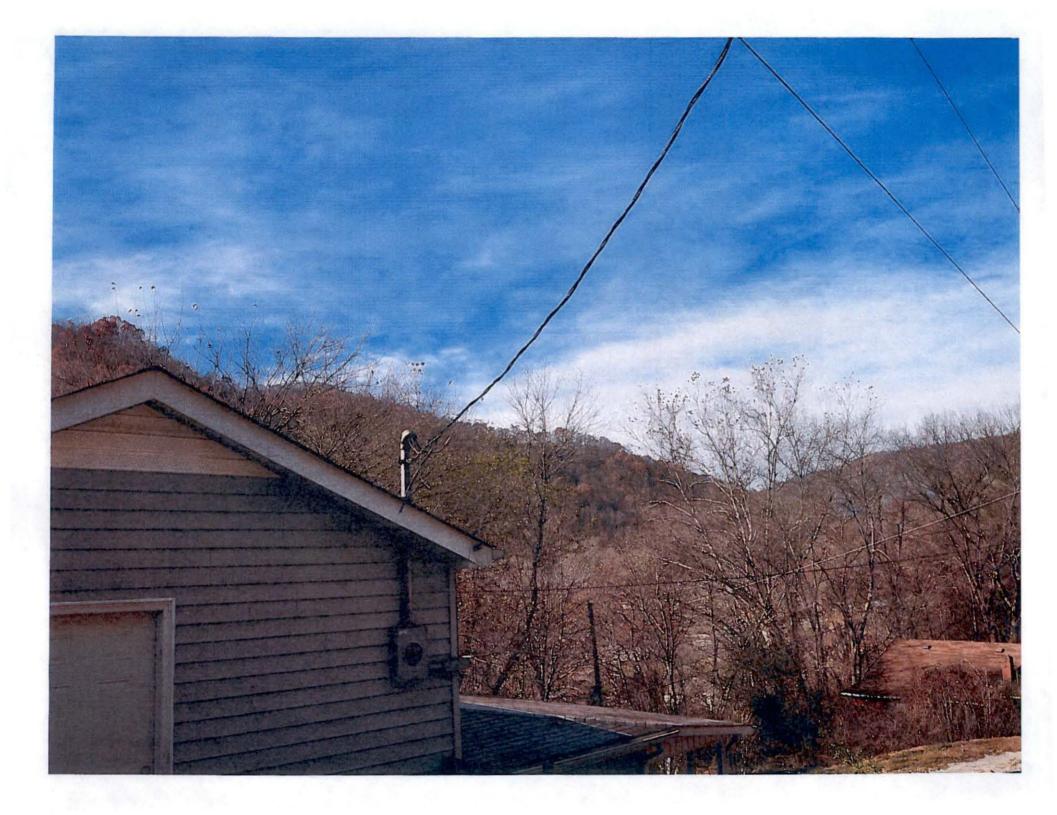




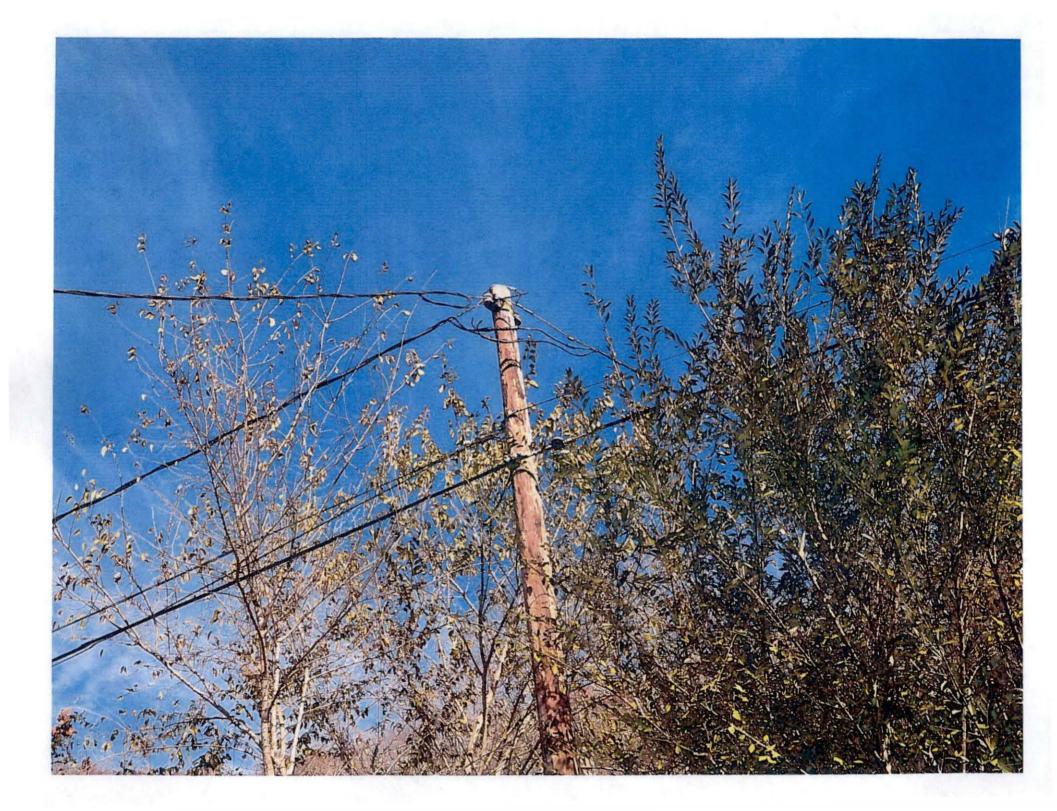




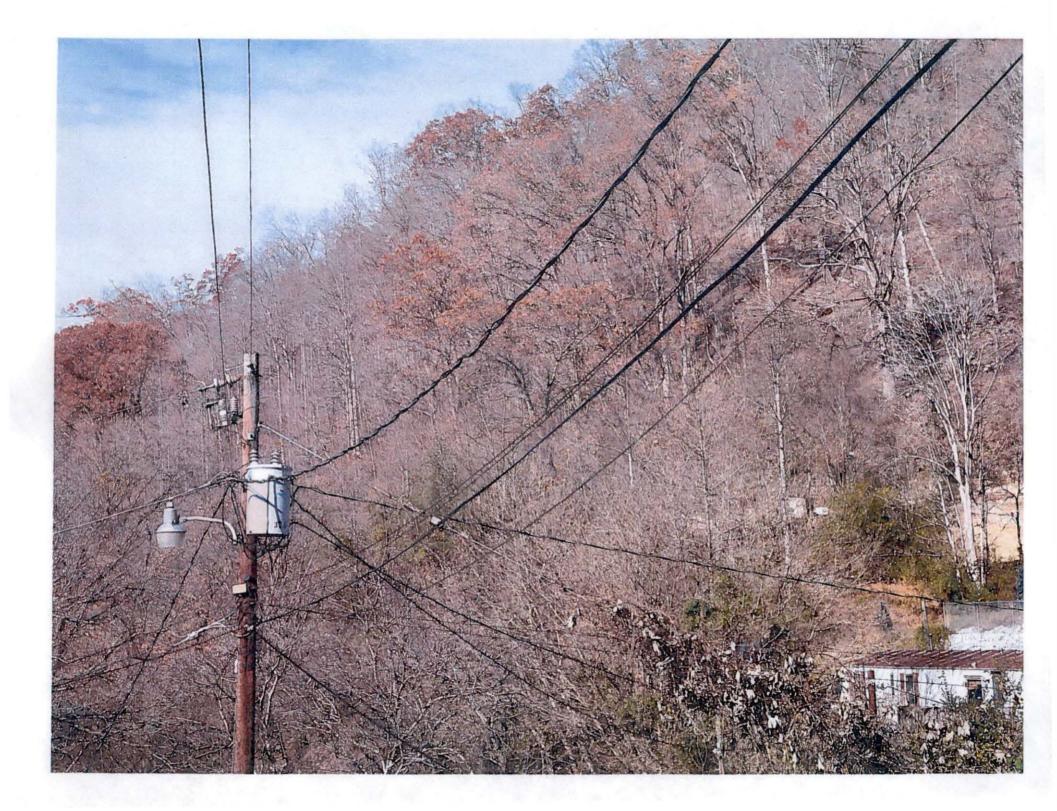






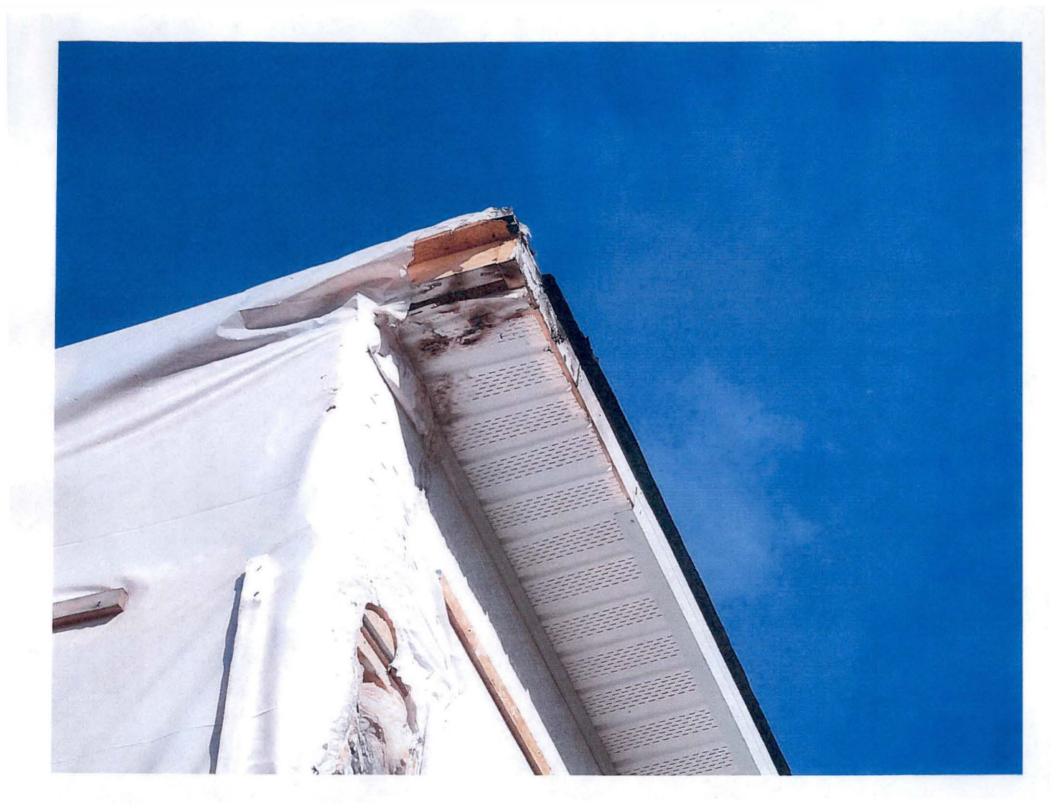


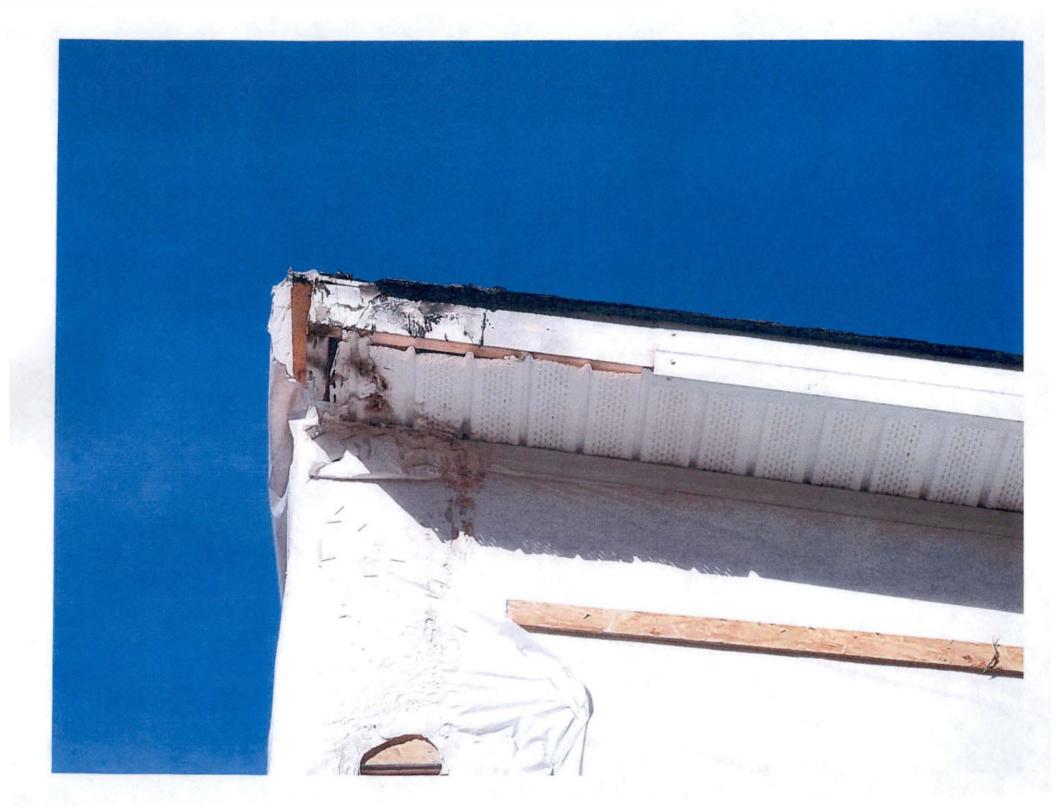
















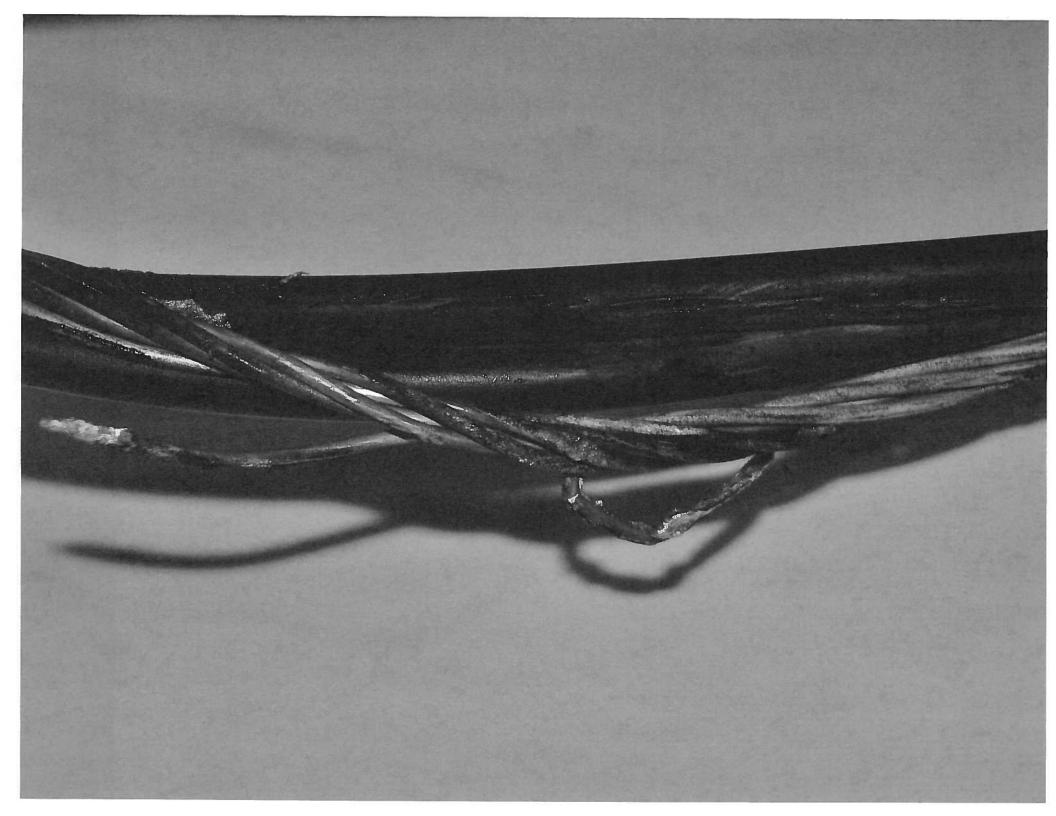


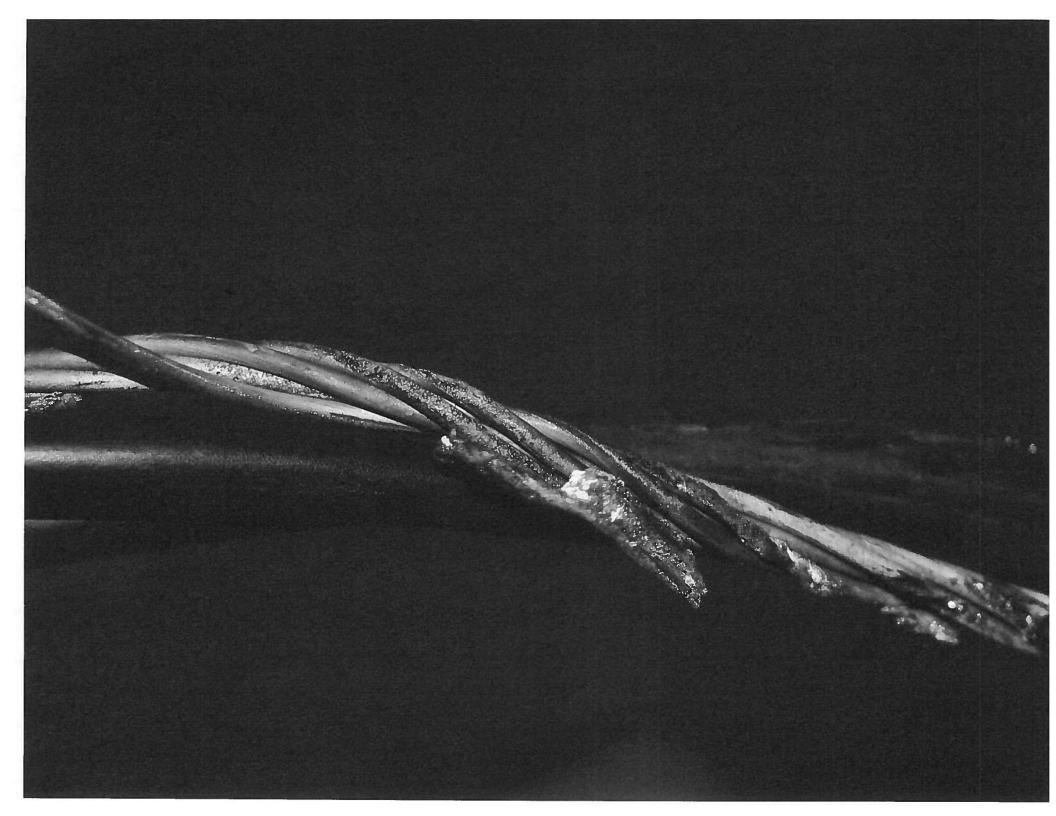


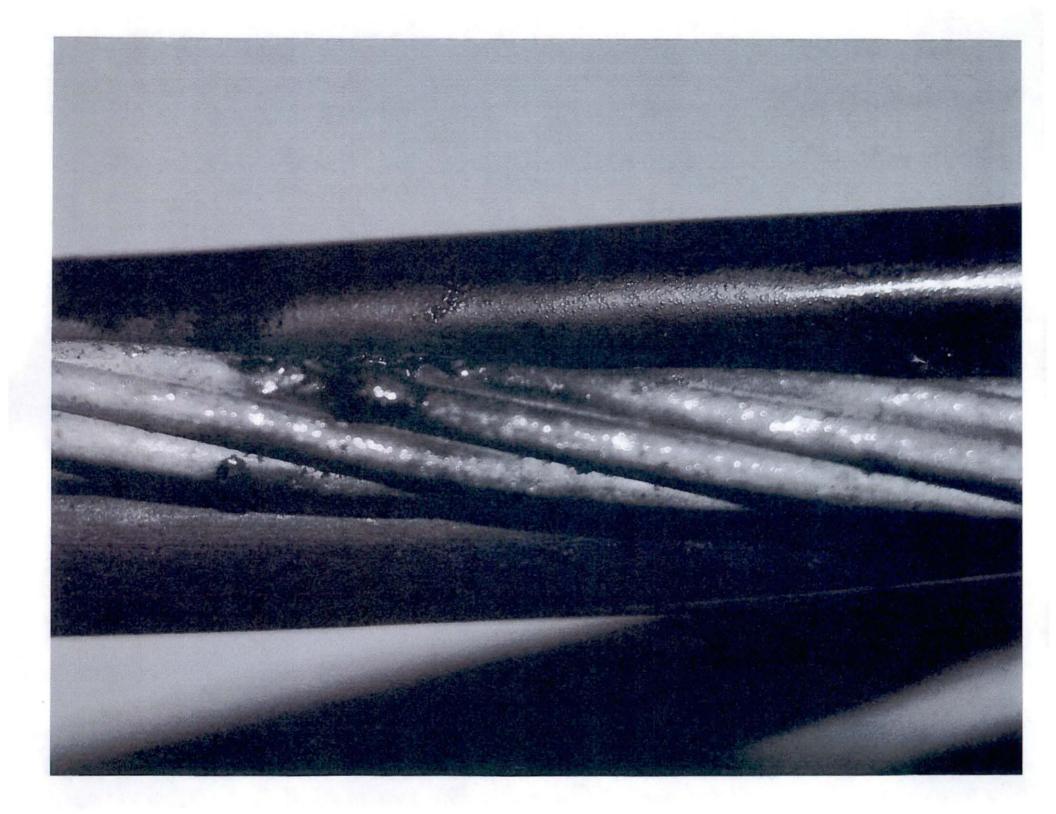














PSC Regulatory Inspection Form

Utility: KU Operations Center: Pineville	Circuit #: 4475
Inspector: ED27084 Date Completed:	3-23-15
Deficiencies:	
The inspection form is intended to identify problems that could have an adverse customer service, orderly and efficient system operation, or a combination of the inspection program is structured to assure that assets are properly inspected identified, and records kept to satisfy the requirements of the PSC regulations in inspectors are encouraged to review annually the EOM&I-SI-001 and to use the deficiencies are recorded in a consistent format for the following areas of inspectors.	nese. To achieve this goal, ad, apparent deficiencles and company procedures. Is form to ensure
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 A.1.4 Anchors and Guys A.1.6 Primary and Secondary Conductors and Conductor Hardware A.1.6 Services	Check
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	,
5184975, 5185355, 5185362, 518	86807,
5186855, 5186870, 5186972, 518715	54,
5187180, 5187204, 5187242, 51878	247
5187855	

3/23/2015

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WENERAL			S	ource: Work Man	ager			
Local District:	HARCC		WR Name:	ZONE EVARTS 4475		Reque	sted Completion:	6/30/2015
Taxing District:	XXX		Job Address:	LORNA BROCK; 36 V	VOOD LN		Premise ID:	ı
WR Type:	MTNRPLDEON			HARLAN, KY			Ext Sys ID:	
WR Sub-Type:	KORCON		Unit No:				Contract Acct No:	
CCS Code:		c	ustomer Phone	606-573-4189			Meter Number:	2017260
Est. Hours:	2		Contact:			Me	ter Reading / Loc:	,
Circuit:	4475		Contact Phone:				Rd Rte:	
							Rd Seq:	
Description:	REPLACE 15KV CU	JTOUT,NOMAP,ALL						
COMMENTS - JO	B CARD - REPLA	ACE ENCLOSED CO	& POR. ARRES	TER. ADD FIBERGLA	SS MIF. *****			
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JOB ERIEFING		FINANCIAL		SUBSTATION INFO	the same to the same to			
Hazards Asso	oc With Job	Project #	Task#	Name:	EVARTS 4475			
Special Preca	autions	ORDD4160	м	TLM Number:	1526504	1		
P. P. E. Requ		ORDD4160	1	Asset Number:				
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Work Procs i			1					
Energy Source	ce Controls							
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Job Start Date	5-2	9-15	Crew Size	. 3		Completed Bv:	D Hos	R
Completion			Man Hours				0 11	
Date		29-15	man nour					V
	-							

3/23/2015

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GENERAL			S	ource: Work Manager		
Local District:	HARCC		WR Name:	ZONE EVARTS 4475	Requested Completion:	6/30/2015
Taxing District:	XXX		Job Address:	LORNA BROCK; 36 WOOD LN	Premise ID	:
WR Type:	MTNRPLDEON		441	HARLAN, KY	Ext Sys ID	:
WR Sub-Type:	KORSGW		Unit No:		Contract Acct No	· · · · · · · · · · · · · · · · · · ·
CCS Code:		C	ustomer Phone	606-573-4189	Meter Number	:
Est. Hours:	1		Contact:		Meter Reading / Loc	
Circuit:	4475	(1	Contact Phone:		Rd Rte	:
Description:	KU RESAG WIRES				Rd Seq	:
		SINGLE DHASE D	PDIMADVI INE /	HWY 215, WOODS LN) *****		
COMMENTS - 30	B CARD - RESAL	S SINGLE PHASE P	KINAKT LINE. (HW1 215, WOODS LN)		,
JOB BRIEFING		FINANCIAL		SUBSTATION INFO.		
Hazards Asso	oc With Job	Project#	Task#	Name: EVARTS 4475		
Special Preca	autions	ORDD4160	м	TLM Number: 1526504	1	
P. P. E. Requi	ired			Asset Number:	1	
Work Procs in			- 1		1	
	SHIP COOK INCOME		- 1		1	
Energy Source	ce Controls					
COMPLETION DE	TAILS					
Comments:						

						, 6
Job Start Date:	5 19	1-/5	Crew Size	3	Completed Bv:	toes
	4					
Completion		19-15	Man Hour	S:		

9/25/2015

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м	CONTRACTOR OF THE PERSON NAMED IN	DECEMBER	CONTRACTOR OF THE PERSON NAMED IN	ORDINA.
9	COLUMN TO SECURE	ranges		
3		G+550		
и		SOUTH BELLEVILLE		

Source: Work Manager

Local District: HARCC

WR Name: ZONE EVARTS 4475

Requested Completion: 10/30/2015 Premise ID:

Taxing District: XXX

Job Address: HWY 215 WR Type: ENPOLEN

Ext Sys ID:

WR Sub-Type: KRPOLE

RED BUD, KY

CCS Code:

Unit No:

Contract Acct No:

Est. Hours: 2

Customer Phone 606-573-4189

Meter Number:

Circuit: 4475

Contact: Contact Phone: Meter Reading / Loc: /

Rd Rte: Rd Seq:

Description: REMOVE POLE AND FILL HOLE

COMMENTS - JOB CARD - REMOVE 30FT POLE AND 120FT 2-T SECONDARY. (LIGHT DONT EXIST) TRAFFIC CONTROL. *****

JOB BRIEFING	FINANCIAL		SUBSTATION INFO:
Hazards Assoc With Job	Project #	Task#	Name: EVARTS 4475
Special Precautions	ORDD4160	1	TLM Number: 1524477
P. P. E. Required	ORDD4160	R	Asset Number:
Work Procs involved			
Energy Source Controls			

A STREET			

Comments:	Lemond	pole	and	1201	+ secondary			

- Job Start Date:

3-19-2015

Crew Size:

Completed By: Tony Hoskins

Completion

Man Hours:

3/23/2015

2-34-48 DM

		S	ource: Work Manager		
Local District:	HARCC	WR Name:	ZONE EVARTS 4475	Requested Completion:	8/30/2015
Taxing District:	XXX	Job Address:	125 NOLAN ST	Premise ID:	•
WR Type:	MTNRPLDEON		EVARTS, KY	Ext Sys ID:	
WR Sub-Type:	KORSGW .	Unit No:		Contract Acct No:	
CCS Code:		Customer Phone	606-573-4189	Meter Number:	M397018
Est. Hours:	1	Contact:		Meter Reading / Loc:	1
Circuit:	4475	Contact Phone:		Rd Rte:	
				- Rd Seq:	
Description:	KU RESAG WIRES	•		•	1
COMMENTS - JO	B CARD - SIDE TRIM	TREE AND RESAG 2-T SVC. (BOBBIE SHORTI ****		
				*	
				14	
		. A.		•	
İ	220				•
			W		
<u></u>					
Hazards Asis	oc With Job	Project # Tank #	Name: EVARTS 4475		26.
Special Preca		D4160 M	TLM Number: 1524415	. [
		D4160			*
P. P. E. Regy			Asset Number:		
Work Proce is	nvolved	1		1	
Energy Source	ce Controls				
					140
**	-12 -	1 ' 1 0	2-1		
Comments:	Side Trim	tree and kes	ing 2-T Service.		<u></u>
<u> </u>					
Job Start Date:	:	Crew Size	=	Completed Bv:	
Completion		Man Hour	K		
			THI		

9/25/2015

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Local District: HARCC Taxing District: XXX Job Address: OLD MIDDLETON Premise ID: WR XVD: MTNRPLDEON EVARTS, KY Ext Sys ID: Contract Acct No: COS Code: Customer Phone 606-573-4189 Meter Reading / Loc: / Circuit: 4475 Contact: Circuit: 4475 Contact: Contact: Contact: Contact: Contact: Rd Seq: Description: KU TREE TRIMMING, OH REPAIR OR COMMENTS - JOB CARD - PINE TREE NEEDS TRIMMED FROM PRIMARY. BUCKET ACCESS / CHIPPING. WHITE BRICK HOUSE UPON HILL ACROSS FROM JERRYS MARKET. MORAN SAYLOR. ****** Special Precautions ORD 4180 M TLM Number: Asset Number: Asset Number: COMMENTS - Controls COMMENTS - Controls COMMENTS - CONTROLS	BENERAL		Source: Work Manager				
Taxing District: XXX	Local District: HARCC			Requested Completion:	6/30/2015		
WR Sub-Type: KRTRTR CCS Code: Customer Phone 606-573-4189 Meter Number: W122885 Est. Hours: 1 Contact: Circuit: 4475 Contact Phone: Rd Rte: Rd Seq: Description: KU TREE TRIMMING, OH REPAIR OR COMMENTS - JOB CARD - PINE TREE NEEDS TRIMMED FROM PRIMARY. BUCKET ACCESS / CHIPPING. WHITE BRICK HOUSE UPON HILL ACROSS FROM JERRYS MARKET. MORAN SAYLOR. ***** Contact Phone:	Taxing District: XXX	Job Address	: OLD MIDDLETON				
WR Sub-Type: KRTRTR CCS Code: Customer Phone 606-573-4189 Meter Number: W122885 Est. Hours: 1 Contact: Circuit: 4475 Contact Phone: Description: KU TREE TRIMMING, OH REPAIR OR COMMENTS - JOB CARD - PINE TREE NEEDS TRIMMED FROM PRIMARY. BUCKET ACCESS / CHIPPING. WHITE BRICK HOUSE UPON HILL ACROSS FROM JERRYS MARKET. MORAN SAYLOR. ***** Contact Phone: Comments - Job Card - PINE TREE NEEDS TRIMMED FROM PRIMARY. BUCKET ACCESS / CHIPPING. WHITE BRICK HOUSE UPON HILL ACROSS FROM JERRYS MARKET. MORAN SAYLOR. Contact Phone: Comments - Job Card - PINE TREE NEEDS TRIMMED FROM PRIMARY. BUCKET ACCESS / CHIPPING. WHITE BRICK HOUSE UPON HILL ACROSS FROM JERRYS Comments - Job Card - PINE TREE NEEDS TRIMMED FROM PRIMARY. BUCKET ACCESS / CHIPPING. WHITE BRICK HOUSE UPON HILL ACROSS FROM JERRYS Comments - Job Card - PINE TREE NEEDS TRIMMED FROM PRIMARY. BUCKET ACCESS / CHIPPING. WHITE BRICK HOUSE UPON HILL ACROSS FROM JERRYS Comments - Job Card - PINE TREE NEEDS TRIMMED FROM PRIMARY. BUCKET ACCESS / CHIPPING. WHITE BRICK HOUSE UPON HILL ACROSS FROM JERRYS Comments - Job Card - PINE TREE NEEDS TRIMMED FROM PRIMARY. BUCKET ACCESS / CHIPPING. WHITE BRICK HOUSE UPON HILL ACROSS FROM JERRYS Comments - Job Card - PINE TREE NEEDS TRIMMED FROM PRIMARY. BUCKET ACCESS / CHIPPING. WHITE BRICK HOUSE UPON HILL ACROSS FROM JERRYS Comments - Job Card - PINE TREE NEEDS TRIMMED FROM PRIMARY. BUCKET ACCESS / CHIPPING. WHITE BRICK HOUSE UPON HILL ACROSS FROM JERRYS Comments - Job Card - PINE TREE NEEDS TRIMMED FROM PRIMARY. BUCKET ACCESS / CHIPPING. WHITE BRICK HOUSE UPON HILL ACROSS FROM JERRYS Comments - Job Card - PINE TREE NEEDS TRIMMED FROM PRIMARY. BUCKET ACCESS / CHIPPING. WHITE BRICK HOUSE UPON HILL ACROSS FROM JERRYS Comments - Job Card - PINE TREE NEEDS TRIMED FROM PRIMARY. BUCKET ACCESS / CHIPPING. WHITE BRICK HOUSE UPON HILL ACROSS FROM JERRYS Comments - Job Card	WR Type: MTNRPLDEON		EVARTS, KY	Ext Sys ID:			
Est. Hours: 1 Contact: Meter Reading / Loc: / Circuit: 4475 Contact Phone: Rd Rte: Rd Seq: Description: KU TREE TRIMMING, OH REPAIR OR COMMENTS - JOB CARD - PINE TREE NEEDS TRIMMED FROM PRIMARY. BUCKET ACCESS / CHIPPING. WHITE BRICK HOUSE UPON HILL ACROSS FROM JERRYS MARKET. MORAN SAYLOR. ***** JOB BRIEFING FINANCIAL SUBSTATION INFO: Asset Number: P. P. E. Required ORDD4160 M TLM Number: Asset Number: Work Procs Involved Energy Source Controls COMPLETION DETAILS	WR Sub-Type: KRTRTR	Unit No	(A)				
Comments - Job Card - Pine tree needs trimmed from primary. Bucket access / Chipping. White Brick house upon hill across from Jerrys Market. Moran Saylor. Comments - Job Card - Pine tree needs trimmed from primary. Bucket access / Chipping. White Brick house upon hill across from Jerrys Market. Moran Saylor. Comments - Job Card - Pine tree needs trimmed from primary. Bucket access / Chipping. White Brick house upon hill across from Jerrys Market. Moran Saylor. Comments - Job Card - Pine tree needs trimmed from primary. Bucket access / Chipping. White Brick house upon hill across from Jerrys Market. Moran Saylor. Comments - Job Card - Pine tree needs trimmed from primary. Bucket access / Chipping. White Brick house upon hill across from Jerrys Market. Moran Saylor. Comments - Job Card - Pine tree needs trimmed from primary. Bucket access / Chipping. White Brick house upon hill across from Jerrys Market. Moran Saylor. Comments - Job Card - Pine tree needs trimmed from primary. Bucket access / Chipping. White Brick house upon hill across from Jerrys Market. Moran Saylor. Comments - Job Card - Pine tree needs trimmed from primary. Bucket access / Chipping. White Brick house upon hill across from Jerrys Market. Moran Saylor. Comments - Job Card - Pine tree needs trimmed from primary. Bucket access / Chipping. White Brick house upon hill across from Jerrys Market. Moran Saylor. Comments - Job Card - Pine tree needs trimmed from primary. Bucket access / Chipping. White Brick house upon hill across from Jerrys Market. Moran Saylor. Comments - Job Card - Pine tree needs trimmed from primary. Bucket access / Chipping. White Brick house upon hill across from Jerrys Market. Moran Saylor. Comments - Job Card - Pine tree needs trimmed from primary. Bucket access / Chipping. White Brick house upon hill across from Jerrys Market. Moran Saylor. Comments - Job Card - Pine tree needs trimmed from primary. Bucket access / Chipping. Brick from Jerrys Market. Moran Saylor. Bucket access / Chipping. Br	CCS Code:	Customer Phone	606-573-4189	Meter Number:	W122885		
Description: KU TREE TRIMMING, OH REPAIR OR COMMENTS - JOB CARD - PINE TREE NEEDS TRIMMED FROM PRIMARY. BUCKET ACCESS / CHIPPING. WHITE BRICK HOUSE UPON HILL ACROSS FROM JERRYS MARKET. MORAN SAYLOR. ***** OB BRIEFING Hazards Assoc With Job Project# Task# Name: EVARTS 4475 Special Precautions ORDD4160 M TLM Number: Asset Number: Work Procs Involved Energy Source Controls	Est. Hours: 1	Contact	:	Meter Reading / Loc:	1		
Description: KU TREE TRIMMING, OH REPAIR OR COMMENTS - JOB CARD - PINE TREE NEEDS TRIMMED FROM PRIMARY. BUCKET ACCESS / CHIPPING. WHITE BRICK HOUSE UPON HILL ACROSS FROM JERRYS MARKET. MORAN SAYLOR. ****** OB BRIEFING	Circuit: 4475	Contact Phone	• 4d - 4d	Rd Rte:			
COMMENTS - JOB CARD - PINE TREE NEEDS TRIMMED FROM PRIMARY. BUCKET ACCESS / CHIPPING. WHITE BRICK HOUSE UPON HILL ACROSS FROM JERRYS MARKET. MORAN SAYLOR. ***** JOB BRIEFING FINANCIAL SUBSTATION INFO: Hazards Assoc With Job Project# Iask# Name: EVARTS 4475 Special Precautions ORDD4160 M TLM Number: Asset Number: Work Procs Involved Energy Source Controls COMPLETION DETAILS	The state of the s			Rd Seq:			
COMMENTS - JOB CARD - PINE TREE NEEDS TRIMMED FROM PRIMARY. BUCKET ACCESS / CHIPPING. WHITE BRICK HOUSE UPON HILL ACROSS FROM JERRYS MARKET. MORAN SAYLOR. ***** OB BRIEFING							
MARKET. MORAN SAYLOR. ***** OB BRIEPING	Description: KU TREE TRIMMIN	G, OH REPAIR OR		/			
MARKET. MORAN SAYLOR. ***** OB BRIEFING FINANCIAL SUBSTATION INFO:							
Hazards Assoc With Job Project # Task # Name: EVARTS 4475 Special Precautions ORDD4160 M TLM Number: Asset Number: Work Procs Involved Energy Source Controls COMPLETION DETAILS							
Special Precautions ORDD4160 M TLM Number: P. P. E. Required Asset Number: Work Procs Involved Energy Source Controls	NAME OF THE PROPERTY OF THE PR						
P. P. E. Required Work Procs Involved Energy Source Controls COMPLETION DETAILS	_						
Work Procs Involved Energy Source Controls COMPLETION DETAILS		ORDD4160 M					
Energy Source Controls COMPLETION DETAILS	P. P. E. Required		Asset Number:				
COMPLETION DETAILS	Work Procs Involved						
	Energy Source Controls						
	COMPLETION DETAILS						
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	Continents.	The copy to the	Crcw				
3-27-2015	3-27	2015	,	1 11			
- Job Start Date: 3-27-2015 Crew Size: 1 Completed Bv: York Hoskins	Job Start Date:	Crew Siz	ze: Comple	ted Bv: 70114 /1054	1115		
Completion 3-27-2015 Man Hours:	Completion 3~27	Man Hou	rs:				

3/23/2015

3:24:28 PM

GENERAL			s	ource: Work Manager			
Local District:	HARCC	· · · · · · · · · · · · · · · · · · ·	WR Name:	ZONE EVARTS 4475	Reques	ted Completion:	6/30/2015
Taxing District:	XXX		Job Address:	SALS BR ROAD		Premise ID:	
WR Type: 1	NBRDOHN			EVARTS, KY		Ext Sys ID:	
WR Sub-Type:	KNTR02		Unit No:			Contract Acct No:	
CCS Code:			Customer Phone	606-573-4189		Meter Number:	
Est. Hours:	1		Contact:		Met	er Reading / Loc:	1
Circuit: 4	4475		Contact Phone:			Rd Rte:	
						Rd Seq:	
Description:	RM OH XFMR,15K\	/A,7.2:120/240V					
COMMENTS - JOI EXIST. *****	B CARD - REMO	VE VACANT 15 K	VA, T BRACKET, (C. O. AND POR. ARRESTER. ACRO	SS FROM VICTORY	BAPTIST CHURCH	GYM. SERVICE DONT
					#		
JOB BRIEFING		FINANCIAL		SUBSTATION INFO:			
Hazards Asso	c With Job	Project#	Task#	Name: EVARTS 4475	5		
Special Preca	utions	ORDD4160	1	TLM Number: 1524394			
P. P. E. Requi	red	ORDD4160	R	Asset Number:		92	4
☐ Work Procs in							
	SON CONTRACTOR INT		1				
Energy Source			l				
COMPLETION DET	TAILS						
Comments:							
						- 1	0
.Job Start Date:	5-29	1-15	Crew Size	. 3	Completed By:	1) Hor	200
		^			January MV		
Completion Date:	5-2	29-15	Man Hour	5.			
,				The state of the s	NOTE THAT IS NOT THE OWNER.		The second secon

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WRJ:	51	8691	2

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	San Committee of the Co	The section and the second section as the second section of the section section section sections.		
		Source: Work Manager		
Local District: HARCC	WR Name:	ZONE EVARTS 4475	Requested Completion:	6/30/2015
Taxing District: XXX		SALS BR ROAD	Premise IO:	The state of the s
WR Type: ENPOLEN		EVARTS, KY	Ext Sys ID:	
WR Sub-Type: KRPOLE	Unit No:	f	Contract Acct No:	i i
CCS Code:	Customer Phone	606-573-4189	Meter Number.	
Est. Hours: 2	Contact		Meter Reading / Loc:	
Circuit: 4475	Contact Phone:		Rd Rte:	
			Rd Seq:	
5				
Description: REMOVE P	ILE AND FILL HOLE	,		1
			Andrew Control of the	
COMMENTS - JOB CARD -	REMOVE 100 FT VACANT 2-T SECONDA	RY AND 30 FT POLE. POLE NOT ON W	AP. ****	
		3		
de de la companya de		÷		
Hazards Assoc With Jo	Projecti Tenkii	Name: EVARTS 4475		
Special Precautions	CNBRD416O	TLM Number: 1524395	1	
B. P. E. Required		Asset Number:		*
4 / · · ·		Asset Manuel.		
Work Proce Involved				
Energy Source Controls				
Comments: Poreango	Sprontpay 1 pode			
Countrients. Principles	Beensan - Acre	****		

	*	4000000 11	-10	
Job Start Date:	Crew Size	- 4 TO 4	Completed Bv:	-
Completion	Man Hours	B:		
c Date: 5-2	1/16			•

WR#:	54	274	EA
MALZE-	-31	0/1	1

2/24/2046

0-24-47 AM

NK#: 518/154	CONS	STRUCTION JOB CARD		3/2/4/2013	0.21:4/ AM
3 3 - 1		Source: Work Manager			
Local District: HARCC	and the second state of th	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	Meter Number		
Est. Hours: 2	Contact	:	Meter Reading / Loc		
Circuit: 4475	Contact Phone:	i	Rd Rte	-	-
			Rd Seq		
Description: REPLACE 15KV	CUTOUT NOMAP ALL			,	
Date in the case is an					
COMMENTS TOP CARD DET	TARE FRICTORES AND BORNA	RRESTER. ADD MIF BRACKET. (AURBIN H	A DIPL deese		
COMMENTS - JOB CARD - REP	LAGE ENGLOSED C.O. AND POR. A	RRESTER. ADD MIF BRACKET. (AURBIN R	ARP)		
					.
9677					1
	ZONES CO	molated			i
	LUVLU U	שוקויוג			<u> J</u>
6:					
Hazards Assoc With Job	Project# Yeak#	Name: EVARTS 4475			
Special Precautions	CRPOLE416 M	TLM Number: 1526442	1		•
P. P. E. Required	CRPOLE416	Asset Number;			
Work Procs Involved	Our Sizerio	Parada Hattimos),	*		
-					
Energy Source Controls					
Comments: Pochacod	CO - Nepestor				
- demin					
				·	
Job Start Date:	Crew Siz	a: (g Coi	mpleted By:		
Completion .	Man Harr		No. of the Control of		
Dete: 6-3-1	F				
Contract of the contract of th	A TOP				

VR#:	51	871	80

EVARTS, KY

3/24/2015

8:38:34 AM

Source:	Work	Manager	

Local	District:	HARCC
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WR Name: ZONE EVARTS 4475

Requested Completion: 6/30/2015

raxing District: XXX

Job Address: 110 RAILROAD ST

Premise ID: Ext Sys ID:

WR Type: MTNRPLDEON WR Sub-Type: KORCON

Unit No:

Contract Acct No:

CCS Code:

Customer Phone 606-573-4189 *

Est. Hours: 2

Contact:

Meter Number: C391847

Meter Reading / Loc: /

Circuit: 4475

Contact Phone:

Rd Rte:

Rd Seq:

Description: REPLACE 15KV CUTOUT, NOMAP, ALL

OMMENTS - JOB CARD - REPLACE ENCLOSED C.O. AND POR. ARRESTER. ADD MIF BRACKET. (NELDA CORNETT) COMMUNITY BEHIND JERRYS MARKET. *****

	会 及基础 (文明:是)		的是是 的复数医型 化重要性 医气管性
Hazards Assoc With Job	Project.#	Imkr	Name: EVARTS 4475
Special Precautions	ORDD4160	1	TLM Number: 1526448
P. P. E. Required	ORDD4160	Mt	Asset Number:
Work Proce involved Energy Source Controls			

comments: 10	placed cutout	ADDISTOR			
Job Start Date:		Crew Size:	le	Completed By:	グルナー
Completion Date:	6-4-15	Man Hours:			

3/24/2015

9:21:47 AM

Source: Work Manager

Local	District:	HARCC

Tadng District: XXX

WR Type: ENPOLEN

WR Sub-Type: KIADG

CCS Code: Est. Hours: 1

Circuit: 4475

WR Name: ZONE EVARTS 4475

Job Address: MAIN ST

EVARTS, KY

Unit No:

Customer Phone 606-573-4189

Contact:

Contact Phone:

Requested Completion: 6/30/2015

Premise ID:

Ext Sys ID:

Contract Acct No:

Meter Number: C525413

Meter Reading / Loc: /

Rd Rte:

Rd Seq:

Description: INSTALL ANCHOR AND DOWN GUY

COMMENTS - JOB CARD - LOCATED BEHIND EVARTS SEWER PUMP STATION: NEXT POLE UP HILL FROM BANK OF TRANSFORMERS, ADD ANCHOR AND RE-ATTACH EXISTING GUY TO STRAIGHTEN POLE AND SUPPORT SINGLE PHASE TAP, RE-ATTACH OTHER GUY TO EXISTING ROD DOWN THE HILL TO SUPPORT THREE PHASE. *****

Hazarda Assoc With Job	Project.#	Tank#	Name: EVARTS 4475	
Special Precautions	ORDD4160	1	7LM Number: 1860225	
P. P. E. Required			Asset Number:	
Work Proce Involved	1			
Energy Source Controls				

Comments:	Replaced 2 guys a in	stalled I guy guard	
Job Start Data		Crew Size: 4	Completed Bv:
Completion	5-27-15	sian nours:	

M	R#:	51	87	72	42
	# 255F #	~ :	O 1		46

VR#: 5187242	CONS	TRUCTION JOB CARD		3/24/2015	9:38:31 AM
	S	ource: Work Manager			
Local District: HARCC Texting District: XXX		ZONE EVARTS 4475 117 HARLAN ST	Requested Completion Premise I		
WR Type: ENPOLEN		EVARTS, KY	Ext Sys II	D:	
WR Sub-Type: KIADG	Unit No:		Contract Acct N	o:	
CCS Code:	Customer Phone	808-573-4189	Meter Numbe	r: M432631	
Est: Hours: 1	Contact:		Meter Reading / Lo	at /	
Circuit: 4475	Contact Phone:		Rd Rt	RC .	
			Rd Se	4	
Description: INSTALL ANCHOR ANI	D DOWN GUY			, 1	
IARLAN ST., ****		TING DOWN GUY ON SPAN GUY PO			
				and the same that the same tha	
Hazards Assoc With Job	Project# Tank#	Name: EVARTS 4475			
-1/	RPOLE416	TLM Number:	4		
P. P. E. Required	-	Asset Number:			
Work Proce Involved			1		
T Energy Source Controls					
	Il hally seeling				·
comments: Installed 8	"helix anchore				
Job Start Date:	Crew Size		Completed Bv:		
Completion Date: 5-27-15	Man Hours				•

NR#:	E4	270	47
1.00 11.00-	3 I	0/0	49

AM

NR#: 5187847	CONSTRUCTION JOB CAR	RD .	3/25/2015 7:59:16
	Source: Work Manager		
Local Dietrict: HARCC	WR Name: ZONE EVARTS 4475	Requested Completion:	6/30/2015
Taxing District: XXX	Job Address: 1290 HWY. 215	Premise ID:	*
WIR Type: MTNRPLDEON	EVARTS, KY	Ext Sys ID:	
WR Sub-Type: KORSGW	Unit No:	Contract Acet No:	
CCS Code:	Customer Phone 606-573-4189	Meter Number:	M345595
Est. Hours: 1	Contact:	Meter Reading / Loc:	1
Circuit: 4475	Contact Phone:	Rd Rta:	
	,	Rd Seq:	
Description: KU RESAG WIRES	*		*
COMMENTS - JOB CARD - RESAGE	# 4 DUPLEX RUBBING TOP OF HOUSE. (WENDY HELTON) *****	443-4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	
		*	3.00
		*	•
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)#. (B)	Į.	
Hazarda Assoc With Job	Project.#	Tank# -	Name: EVARTS 4475
Special Precautions	ORDD4160	м	TLM Number: 1524477
P.P. E Required TH			Asset Number:
Work Proce involved			
Energy Source Controls			

Comments: Rec	Sugal # 4 duple	x Diver top of house		,
Job Start Date: Completion Date:	3-27-15	Grew Size:	Completed Bv:	

THU

3/25/2015

8:29:19 AM

SENERAL		Source: Work Manager		
Local District: HARCC	WR Name	ZONE EVARTS 4475	Requested Completion:	6/30/2015
Taxing District: XXX	Job Address	28 CARR LN	Premise ID:	
WR Type: RPRPLDEOHN		EVARTS, KY	Ext Sys ID:	
WR Sub-Type: KNRO04	Unit No		Contract Acct No:	
CCS Code:	Customer Phone	606-573-4189	Meter Number:	2007258
Est. Hours: 2	Contact		Meter Reading / Loc:	1
Circuit: 4475	Contact Phone	l la	Rd Rte:	
			Rd Seq:	
Description: INST # OH 2T SEC	C 1 SPAN			
COMMENTS - JOB CARD - REPLA	ACE 200 FT OF 3 WIRE #6 POLY C	OPPER SECONDARY WITH 2-T. (STEPHANIE VI	CK) *****	
				/
		Disney		
JOB BRIEFING	FINANCIAL	SUBSTATION INFO:		
Hazards Assoc With Job	Project# Task#	Name: EVARTS 4475		
Special Precautions	ORDD416O I	TLM Number:		
P. P. E. Required		Asset Number:		
Work Procs involved				
Energy Source Controls				
COMPLETION DE FAILS				
Comments:				
Comments.				
Job Start Date: 5-	27-15 Crew Siz	e: 3 Complet	ted Bv: M Ha	25 KinS
	7-15 Man Hour	rs:		

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

	Insulated communication conductors and cable; messengers; overhead shield/	Noninsulated	Supply cables over 750 V meeting Rule 230C2 or 230C3; open supply conductors,	Open supply conductors, over 750 V to 22 kV; ungrounded portions of guys meeting Rules 215C4, 215C5, and 279A1 exposed to 750 V to 22 kV **	Trolley and electrified railroad contact conductors and associated span or messenger wires	
Nature of surface underneath wires, conductors, or cables	surge-protection wires; grounded guys; ungrounded portions of guys meeting Rules 215C4, 215C5, and 279A1 exposed to 0 to 300 V 0 0 0; neutral conductors meeting Rule 230E1; supply cables meeting Rule 230C1 (m)	communication conductors; supply cables of 0 to 750 V meeting Rule 230C2 or 230C3 (ft)	0 to 750 V ; ungrounded portions of guys meeting Rules 215C4, 215C5, and 279A1 exposed to over 300 V to 750 V © \$ \$		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	_	
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	_	_

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