

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

CLOSURE OF INVESTIGATION OF)	CASE NO.
JANUARY 22, 2019 INCIDENT – KENTUCKY)	2019-00141
UTILITIES COMPANY)	

ORDER

The Commission, on its own motion, initiates this proceeding to close the investigation of an incident that occurred on January 22, 2019, on Rice Road in Bell County, Kentucky, as the result of which an employee of Davis H. Elliot Company, Inc. (Elliot), a contractor for Kentucky Utilities Company (KU), suffered shock and burn injuries requiring hospitalization. The employee, Lane Cornett, was working as part of a crew that was using a derrick digger to set a new steel pole when the pole came out of the digger derrick pole claws and made contact with the energized conductor. Mr. Cornett was standing on the ground trying to rotate the pole being set with a steel bar when the pole made contact with the energized conductor and became energized, causing Mr. Cornett's injuries.

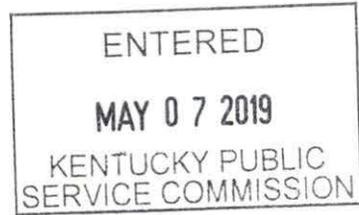
Commission Staff (Staff) investigated the incident and found five probable violations of the National Electrical Safety Code. Staff issued KU a Demand for Remedial Measures and Penalty Assessment, a copy of which is attached to this Order as an Appendix, to resolve all compliance and enforcement matters pertaining to the January 22, 2019 incident. KU paid the proposed penalty and completed all remedial measures required by Staff.

The Commission finds that KU has addressed to its satisfaction the probable violations cited by Staff in connection with the January 22, 2019 incident. The Commission further finds that the Commission's investigation of the incident should be closed.

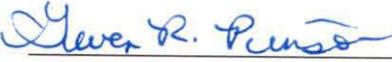
IT IS THEREFORE ORDERED that:

1. KU's payment of Staff's proposed penalty and completion of remedial measures required by Staff is accepted and resolves all alleged violations of KRS 278.042, 807 KAR 5:006, or 807 KAR 5:041, as well as any penalty that could be assessed under KRS 278.990(1), arising out of the January 22, 2019 incident.
2. KU's payment of Staff's proposed penalty is not an admission by KU that it willfully violated any provision of KRS Chapter 278 or any administrative regulation promulgated pursuant thereto.
3. The Commission's investigation of the January 22, 2019 incident is closed.
4. This case is closed and removed from the Commission's docket.

By the Commission



ATTEST:


Executive Director

APPENDIX

APPENDIX TO AN ORDER OF THE KENTUCKY PUBLIC SERVICE
COMMISSION IN CASE NO. 2019-00141 DATED **MAY 07 2019**

[SEVENTY SIX PAGES TO FOLLOW]



Matthew G. Bevin
Governor

Charles G. Snavelly
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

Talina R. Mathews
Commissioner

March 5, 2019

Robert M. Conroy
Vice President – State Regulation and Rates
Kentucky Utilities Company
Louisville, KY 40202

Re: January 22, 2019 Incident

**DEMAND FOR REMEDIAL MEASURES AND
FOR PENALTY ASSESSMENT**

Dear Mr. Conroy:

This letter is in reference to an incident that occurred on January 22, 2019, at Rice Road in Bell County, Kentucky, near the town of Arjay. As a result of the incident, Lane Cornett, an employee of Davis H. Elliot Company, Inc. (Elliot), a Kentucky Utilities (KU) contractor, suffered shock and burn injuries requiring hospitalization. Kentucky Public Service Commission Staff (Staff) investigated the incident and prepared the attached Accident Investigation Staff Report (Report).

According to KU's 7-day summary report, an Elliot crew was replacing a wooden transmission pole with 69kV transmission steel H-structure. The crew was using a derrick digger to set a new steel pole when the pole came out of the digger derrick pole claws and made contact with the energized conductor. Mr. Lane Cornett, a member of the Elliot Crew, was standing on the ground trying to rotate the pole being set with a steel bar when the pole made contact with the energized conductor. Mr. Cornett received shock and burns when the steel pole became energized. He was admitted to the Pineville Regional Hospital and later transferred to the University of Tennessee hospital. His injuries were significant.

Based on its investigation of the incident, Staff has determined that KU's contractor violated the following provisions of the 2017 National Electrical Safety Code (NESC):

1. NESC Part 4, Section 42, Rule 420(C)(5) – Safeguarding oneself and others. Elliot employees failed to take account of their own safety on the job site. Elliot

employees brought a conductive object within the minimum approach distance for KU's energized 69kV transmission circuit.

2. NESC Part 4, Section 42, Rule 420(C)(5) – Tools and protective equipment. Elliot employees failed to use the personal protective equipment, the protective devices, and the special tools provided for their work.
3. NESC Part 4, Section 42, Rule 421(A) – Duties of a first-level supervisor or person in charge. Elliot's person in charge at the time of the incident failed to adopt such precautions as were within his control to prevent the accident and failed to see that all safety rules and operating procedures were observed by employees under his supervision.
4. NESC Part 4, Section 42, Rule 422(A)(1) – Setting, moving, or removing poles in the vicinity of energized electric supply lines. When moving poles in the vicinity of KU's energized lines, Elliot employees failed to take adequate precautions to avoid direct contact of the steel pole with the energized conductor, failed to use suitable protective equipment, and failed to avoid contact with equipment being used to move poles.
5. NESC Part 4, Section 44, Rule 441(A)(1) – Minimum approach distance to energized lines or parts. An Elliot employee approached and brought a conductive object within the minimum approach distance of an energized conductor without being insulated from the energized conductor by protective equipment and without the energized conductor being insulated from the employee.

KRS 278.042 provides that the Commission shall ensure that each electric utility constructs and maintains its plant and facilities in accordance with accepted engineering practices as set forth in the Commission's administrative regulation and orders and in the most recent edition of the NESC. 807 KAR 5:041, Section 3(1) requires each electric utility to construct and maintain its plant and facilities in accordance with accepted engineering practices, adopting the provisions of the NESC as applicable standards of accepted good engineering practices. Based on its investigation of the incident and its determination that KU committed a violation of the NESC, Staff finds that KU is in violation of 807 KAR 5:041, Section 3(1), for failing to maintain its plant and facilities in accordance with accepted engineering practices.

REMEDIAL MEASURES

In order to resolve the above violations, the following remedial measures must be completed:

- Within 30 days of the date of this letter, KU shall review the foregoing violations with Elliot to reinforce the safety requirements that were not followed by the Elliot crew.

- Within 60 days of the date of this letter, KU shall submit to the Commission documentation of its safety briefing with Elliot.

CIVIL PENALTY

KRS 278.990(1) provides that a utility's willful violation of any of the provisions of KRS Chapter 278, or any administrative regulation promulgated pursuant thereto, shall subject the utility to a civil penalty assessed by the Commission not to exceed \$2,500 for each violation. Under the statute, each act, admission or failure of a person acting for a utility within the scope of his employment shall be deemed to be the act, omission or failure of the utility. After investigation of this matter, it is Commission Staff's recommendation that KU be subject to a civil penalty in the amount of \$10,000 for five violations of the NESC and 807 KAR 5:041, Section 3(1).

If KU does not wish to contest the proposed civil penalty, KU should mail or deliver a company check, cashier's check or money order made payable to the "**Kentucky State Treasurer**" in the amount of \$10,000, within 30 days of the date of this letter, to:

Kentucky Public Service Commission
211 Sower Blvd.
Frankfort, Kentucky, 40602

Payment of the proposed civil penalty and completion of the remedial measures specified in this letter will satisfy and resolve any and all claims against KU for any violation of KRS 278.042 or of 807 KAR 5:041, Section 3(1), and for any penalty under KRS 278.990 arising out of the January 22, 2019 incident. KU's payment of the proposed civil penalty will not be considered an admission by KU that it willfully violated any provision of KRS Chapter 278 or any administrative regulation promulgated pursuant thereto. Upon payment of the proposed penalty and completion of the remedial measures, the Commission will confirm resolution of this matter by entry of an order. Payment of the penalty constitutes a waiver by KU of any right to a hearing in any proceeding initiated to close the investigation.

If KU does not pay the proposed civil penalty within 30 days of the date of this letter, the Commission will institute an administrative proceeding against KU and schedule a formal hearing, at which KU will have an opportunity to present evidence and show cause why it should not be subject to penalties in KRS 278.990(1) based on the January 22, 2019 incident.

This demand letter addresses only those matters specifically referred to in this document. This demand does not waive or otherwise affect any obligations or liabilities that may result from other activities by KU.

Robert M. Conroy
March 5, 2019
Page 4

If you have any questions, please contact John Park at 502-782-2589.

Sincerely,



Gwen R. Pinson
Executive Director

Attachment



Matthew G. Bevin
Governor

Charles G. Snavelly
Secretary
Energy and Environment Cabinet

Commonwealth of Kentucky
Public Service Commission
211 Sower Blvd.
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Michael J. Schmitt
Chairman

Robert Cicero
Vice Chairman

Talina R. Mathews
Commissioner

ACCIDENT INVESTIGATION STAFF REPORT

Report Date: February 8, 2019

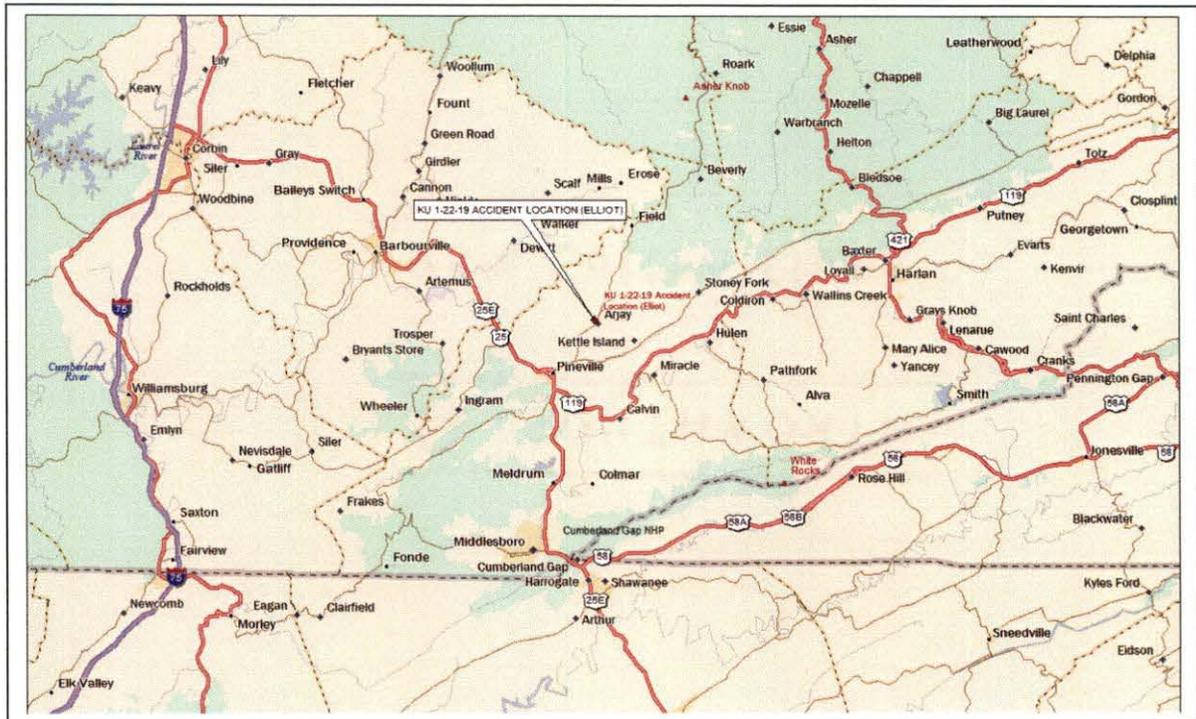
Accident Date: January 22, 2019

Serving Utility: Kentucky Utilities Company

Accident Location: Near Arjay, Kentucky

Accident Victim: Lane Cornett

PSC Investigator: Steve Kingsolver





Matthew G. Bevin
Governor

Charles G. Snavely
Secretary
Energy and Environment
Cabinet

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Michael J. Schmitt
Chairman

Robert Cicero
Vice Chairman

Talina R. Mathews
Commissioner

Electric Utility Injury Accident Report
Type of Accident: Contractor

Utility: Kentucky Utilities Company (KU)

Reported by: Keith McBride
KU/ LG&E Accident Investigator

Incident Occurred: Approximately 12:29 PM, January 22, 2019

Utility Discovered: Approximately 1:06 PM, January 22, 2019

PSC Notified: Approximately 2:45 PM, January 22, 2019

Summary Report Received: January 29, 2019. (See Attachment A)

PSC On-Site Investigation: Approximately 9:30 AM, January 23, 2019

Type of Accident: Contractor, Shock and Burn
(69kV Circuit)

Incident Description:

This accident took place at approximately 12:29 PM on January 22, 2019 at the end of Rice Road in Bell County near Arjay, Kentucky. A Davis H. Elliot crew, contractor for KU, was replacing a wooden transmission pole with a steel pole in the energized 69kV transmission circuit. The steel pole came out of the digger derrick pole claws and made contact with the energized conductor. The victim, Lane Cornett an employee of Davis H. Elliot Company, was standing on the ground trying to rotate the pole being set with a steel bar when the pole made contact with the energized conductor. The victim received shock and burns when the steel pole became energized.

The Elliot crew had put insulated covering on the energized conductor but not where the steel pole made contact with the energized conductor. The victim was not insulated from the energized steel pole. The foreman or person in charge of this work site was Robert Hardy, an employee of Davis H. Elliot Company.

Victim:	Name:	Position:	Employer:
	Lane Cornett	Lineman 5	Davis H. Elliot Co.

Date of Birth: March 19, 1996
Age: 22 years old

Witnesses:	Name:	Position	Employer:
	Robert Hardy	Foreman	Davis H. Elliot Co.
	Jeffrey Faulconer	Lineman C	Davis H. Elliot Co.
	Andrew Preston	Lineman 2	Davis H. Elliot Co.
	Joey Williams	Operator Trans 3	Davis H. Elliot Co.

Information from:	Name:	Position:	Employer:
	Steve Bryant	KU Safety Specialist	KU
	Keith McBride	Accident Investigator	KU

FINDINGS:

Based on its investigation, Commission staff has determined that KU did not meet the following requirements set forth in the National Electrical Safety Code (NESC)

RELEVANT CODES, STATUTES, REGULATIONS, OR SAFETY MANUAL ISSUES THAT ARE PERTINENT TO THE INVESTIGATION

278.042 Service adequacy and safety standards for electric utilities
National Electrical Safety Code

- (1) For the purposes of this section, "NESC" means the National Electrical Safety Code as published by the Institute of Electrical and Electronics Engineers, Inc.
- (2) Except as otherwise provided by law, the commission shall, in enforcing service adequacy and safety standards for electric utilities, ensure that each electric utility constructs and maintains its plant and facilities in accordance with accepted engineering practices as set forth in the commission's administrative regulations and orders and in the most recent edition of the NESC.

Effective: June 24, 2003

History: Created 2003 Ky. Acts Ch. 84, sec. 1, Effective June 24, 2003.

2017 National Electric Safety Code:
See 2017 NESC Code to view each rule in its entirety.

Violation # 1

Part 4. Work Rules for the Operation of Electric Supply and Communications Lines and Equipment

Section 42. General rules for employees

420. General

C. Safeguarding oneself and others

5. No employee shall approach or bring any conductive object, without a suitable insulating handle, closer to any exposed energized part than allowed by Rule 431 (communication) or Rule 441 (supply), as applicable.
-

Violation # 2

Part 4. Work Rules for the Operation of Electric Supply and Communications Lines and Equipment

Section 42. General rules for employees

420. General

H. Tools and protective equipment

Employees shall use the personal protective equipment, the protective devices, and the special tools provided for their work. Before starting work, these devices and tools shall be carefully inspected to make sure that they are in good condition.

Violation # 3

**Part 4.
Work Rules for the Operation of Electric Supply
and Communications Lines and Equipment**

**Section 42.
General rules for employees**

421. General operating routines

A. Duties of a first-level supervisor or person in charge

This individual shall:

2. See that the safety rules and operating procedures are observed by the employees under the direction of this individual.

Violation # 4

**Part 4.
Work Rules for the Operation of Electric Supply
and Communications Lines and Equipment**

**Section 42.
General rules for employees**

422. Overhead line operating procedures

Employees performing working on or associated with overhead lines shall observe the following rules in addition to applicable rules contained elsewhere in Sections 43 and 44.

A, Setting, moving, or removing poles in or in the vicinity energized electric supply lines

1. When setting, moving, or removing poles in or in the vicinity of energized lines, precautions shall be taken to avoid direct contact of the pole with the energized conductors. Employees shall wear suitable insulating gloves or use other suitable means when handling poles where energized conductors can be contacted. Employees performing such work shall not contact the pole with uninsulated parts of their bodies.

Violation # 5

Part 4.

**Work Rules for the Operation of Electric Supply
and Communications Lines and Equipment**

Section 44.

Additional rules for supply employees

441. Energized conductors or parts

A. Minimum approach distance to energized lines or parts

1. General

Employees shall not approach or bring any conductive object within the Minimum approach distance listed in Table 441-1 or Table 441-5 to exposed energized lines or parts unless one of the following is met:

b. The employee is insulated from the energized line or part. Electrical protective equipment insulated for the voltage involved, such as tools, rubber gloves, or rubber gloves with sleeves, shall be considered effective insulation for the employee from the energized line or part being worked on.

c. The energized line or part is insulated from the employee and from any other line or part at a different voltage.

Investigated by: _____ **Name:** Steve Kingsolver **Company:** KPSC

Signed: 

Date: February 8, 2019

Attachments: A. KU Accident Summary Report
B. Accident Location Map
C. Accident Notification Information

Attachment A

KU Accident Summary Report



RECEIVED

JAN 29 2019

PUBLIC SERVICE
COMMISSION

January 29, 2019

Ms. Gwen Pinson
Executive Director
Kentucky Public Service Commission
211 Sower Blvd.
P.O. Box 615
Frankfort, KY 40602

LG&E and KU Energy, LLC
Corporate Law
220 W. Main Street
Louisville, Kentucky 40202
www.lge-ku.com

Mark Gomsak
Corporate Attorney
T 502-627-2166
F 502-627-3367
Mark.Gomsak@lge-ku.com

Re: Report No. 19-Trans-E-001-KU

Dear Ms. Pinson:

I am forwarding the enclosed Incident Report prepared by Keith McBride regarding the Davis H. Elliot Employee Injury which occurred on January 22, 2019. 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) 627-2756.

Sincerely,

Mark Gomsak

Enclosures:

- 1) KU photographs
- 2) Facility Map
- 3) Protection Ratings
- 4) DHE Job Briefing
- 5) DHE Vehicle Di-electric testing
- 6) DHE Incident Report and Photos
- 7) DHE has declined to provide employee statements

KPSC INVESTIGATION REPORT - DRAFT

RECEIVED

KU Contractor Injury

Type of Report

19-Trans-E-001-KU

Report Number

JAN 29 2019

PUBLIC SERVICE
COMMISSION

Keith McBride

Investigator

January 22, 2019

Date of Incident

Location: North of Rice Road
Arjay, Bell County, Kentucky
Pineville Operations area

Incident Summary

On January 22, 2019, a crew for Davis H. Elliot Company (DHE), a KU Transmission Department contractor, was setting in the ground a new 75ft steel pole as part of a 69kV transmission steel H-structure, which was located at the end and on the north side of Rice Road in Arjay, Kentucky.

At 12:29 P.M. the Pineville 192-624 to Rocky Branch 225-604 69kV circuit locked out under caution. While DHE was setting the steel pole, the pole came out of the derrick digger pole claws and fell into and contacted the energized 69kV center phase.

At the time of the incident, Lane Cornett, DHE Line Tech Apprentice 5, was standing at the base of the pole, holding an approximately 5ft long steel rock breaker, which he was using to rotate the pole. When the pole contacted the 69kV center phase, the rock breaker was in contact with the pole and Mr. Cornett received a shock and burns.

Keith McBride was notified of the incident at 1:06 P.M. Once it was determined that the injuries were significant and medical treatment would be given, Keith McBride notified the Kentucky Public Service Commission Investigator, Steve Kingsolver, of the incident at 2:45 P.M.

Incident Investigation

On January 22, 2019, a crew for Davis H. Elliot Company (DHE), a KU Transmission Department contractor, was setting in the ground a new 75ft steel pole as part of a 69kV transmission steel H-structure, which was located at the end and on the north side of Rice Road in Arjay, Kentucky.

The pole that was being set was between the north phase and the center phase. The pole was being set by a Terrex derrick digger. It was held by a nylon sling with the winch rope snapped into it, and the top of the pole was being held by the pole claws.

Mr. Cornett was using an approximately 5ft long steel rock breaker attached to a nylon sling to rotate the steel pole into position.

When Mr. Cornett attempted to rotate the pole, the pole claws at the tip of the boom inadvertently opened up enough for the pole to come out of the pole claws.

The pole fell into and struck the existing wooden H-structure and then slid down the cross member onto the center phase of the 69kV and became energized. With the pole now energized the steel 5ft long rock breaker that Mr. Cornett was holding became energized and Mr. Cornett received a shock and burns.

A DHE crew member called 911 while Mr. Cornett was transported off of the remote job site by coworkers, who placed him in a pickup truck and drove him out to the nearby road. EMS arrived and transported Mr. Cornett to the Pineville Regional Hospital where he was later air lifted to the University of Tennessee Hospital. In the evening of Tuesday January 22, 2019, Mr. Cornett was airlifted to Vanderbilt University Medical Center. Mr. Cornett received significant injuries.

Lane Cornett (injured)
DHE, LT Apprentice-5
Hire date – 9/26/2014

Kevin Ireland – DHE Truck operator

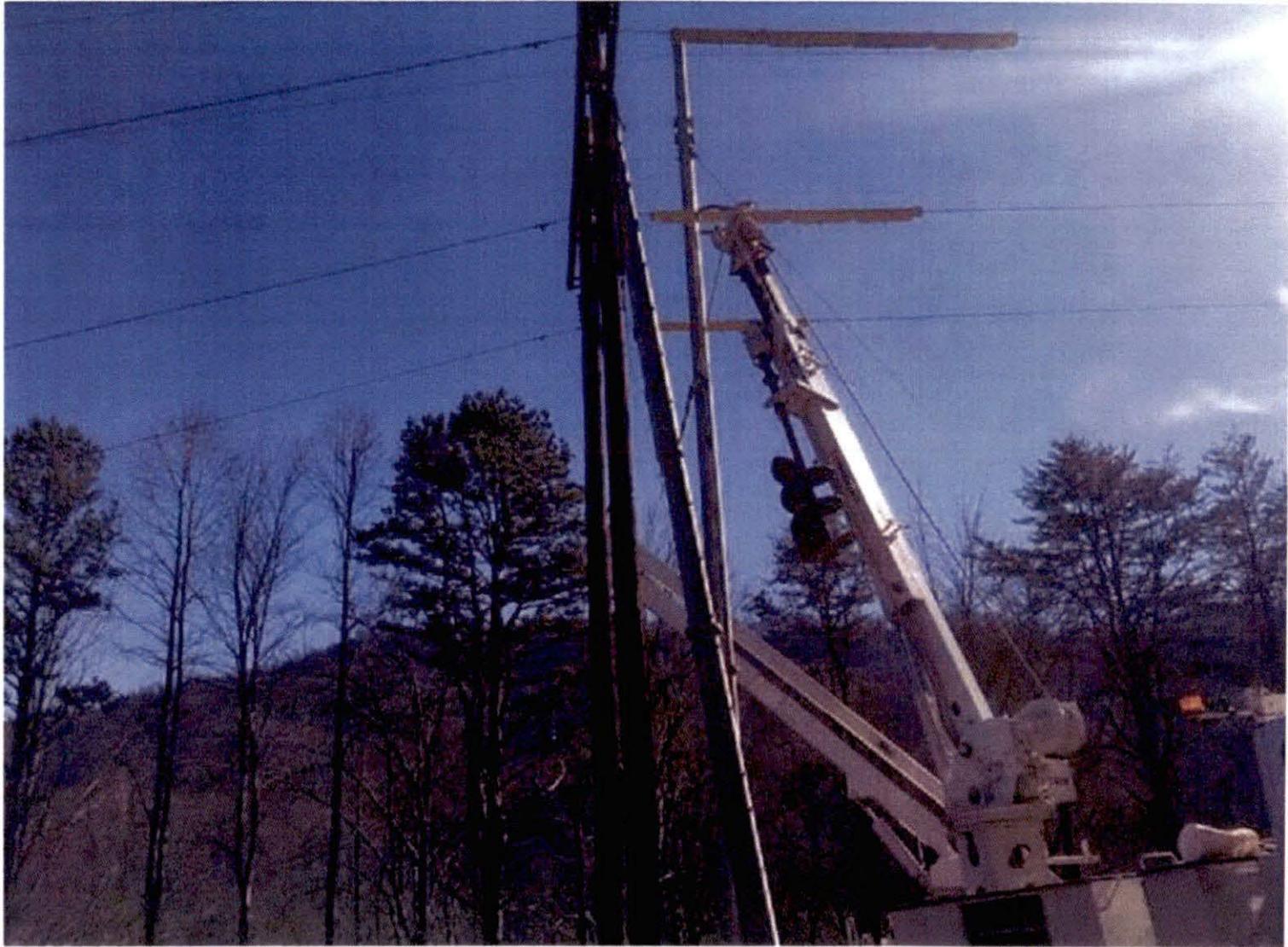
Rob Hardy – DHE Foreman

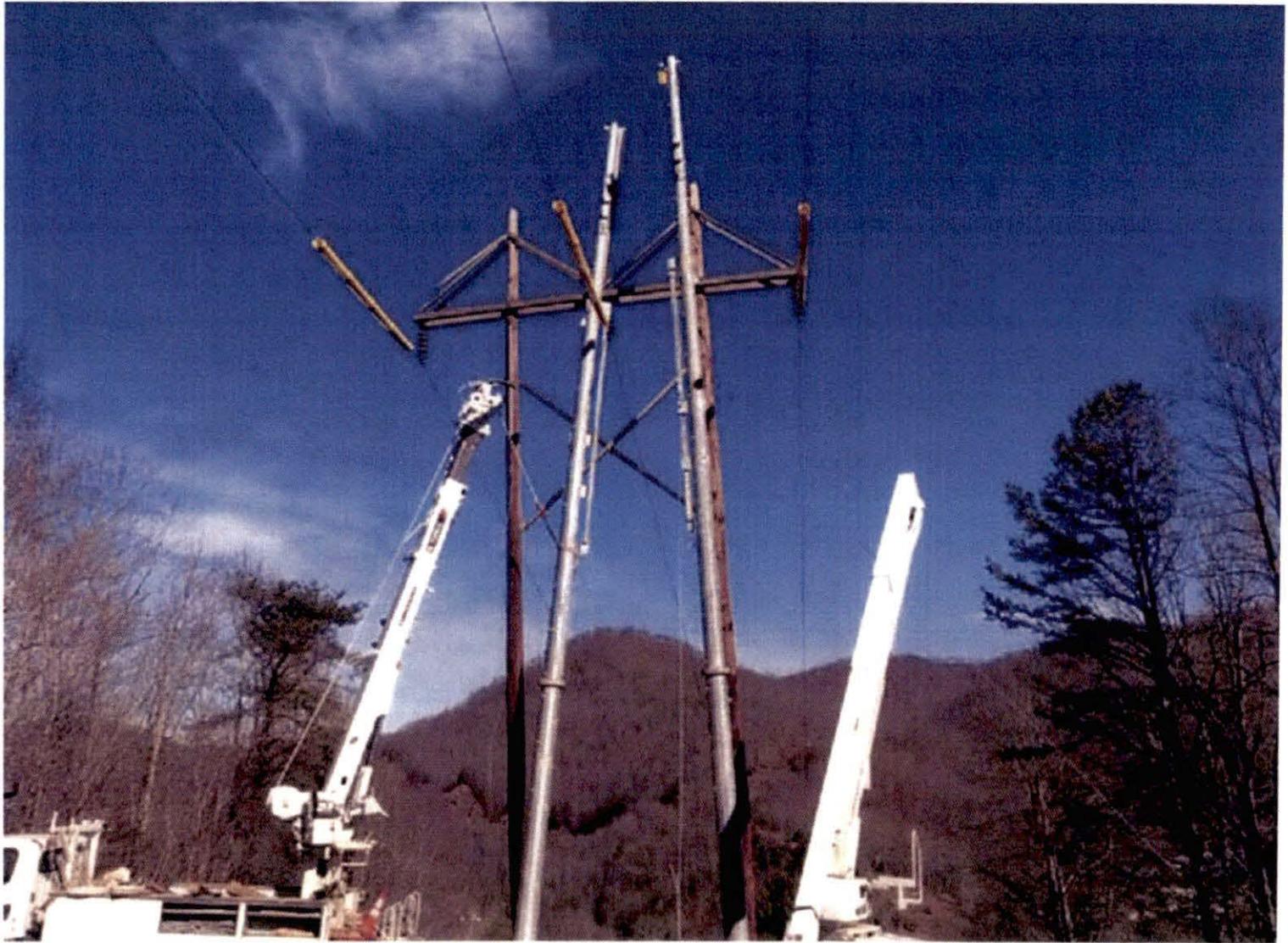
Davis H. Elliot Company
673 Blue Sky Parkway
Lexington, Kentucky 40509
859-263-5148

Circuit - Pineville 192-624 to Rocky Branch 225-604 / locked out at 12:29 P.M.

DATE OF REPORT: January 29, 2019

END OF REPORT

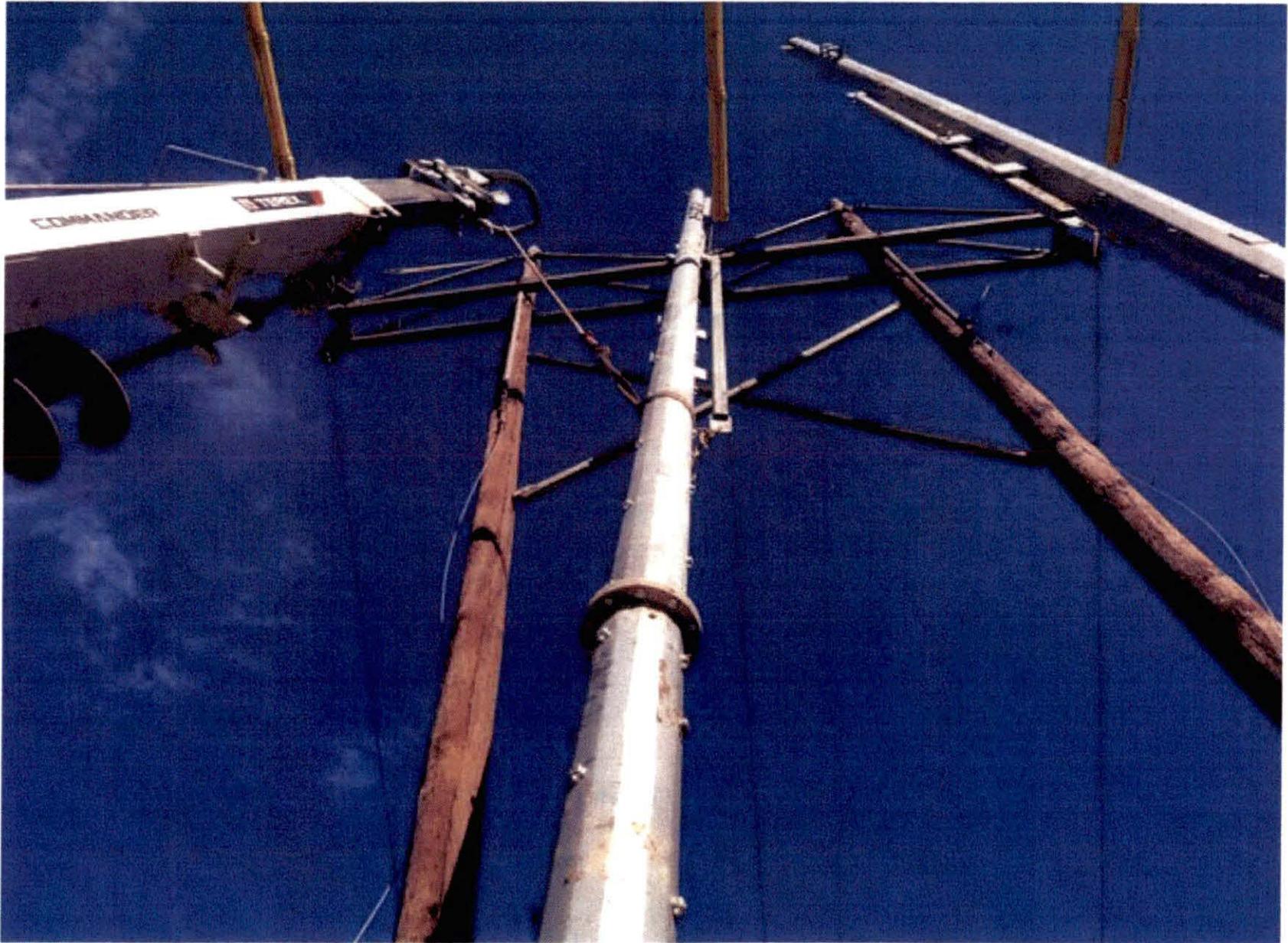




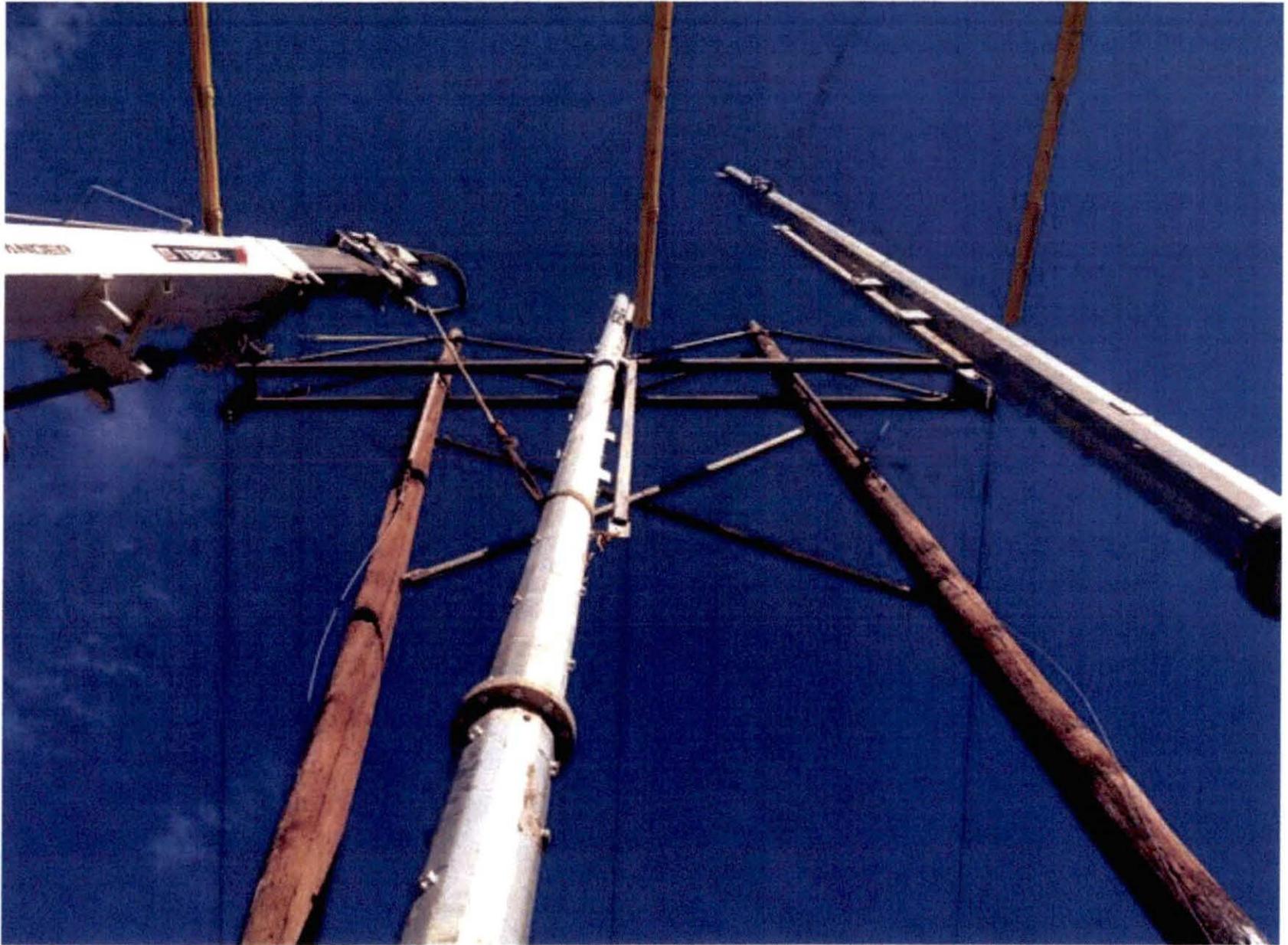


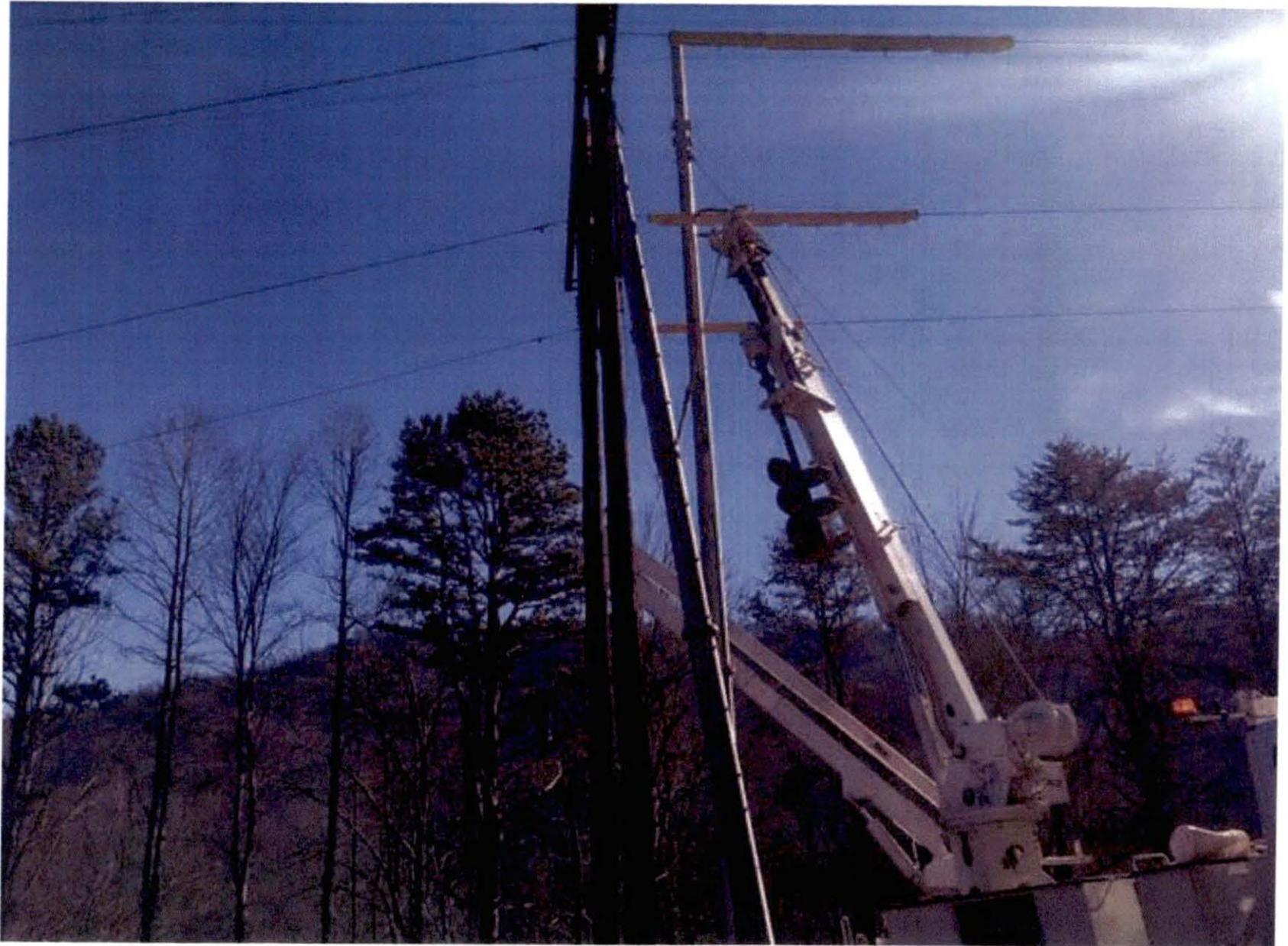


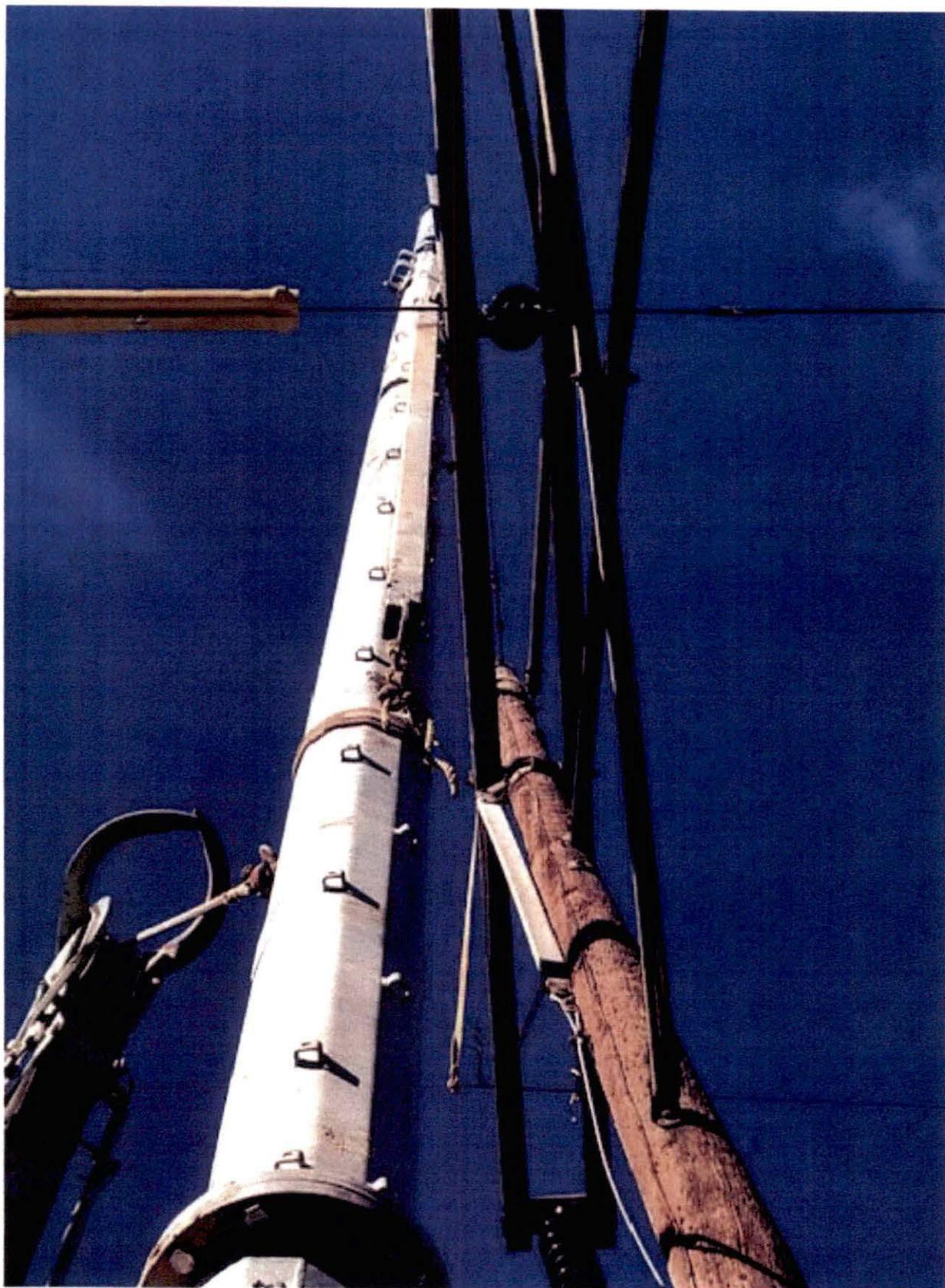










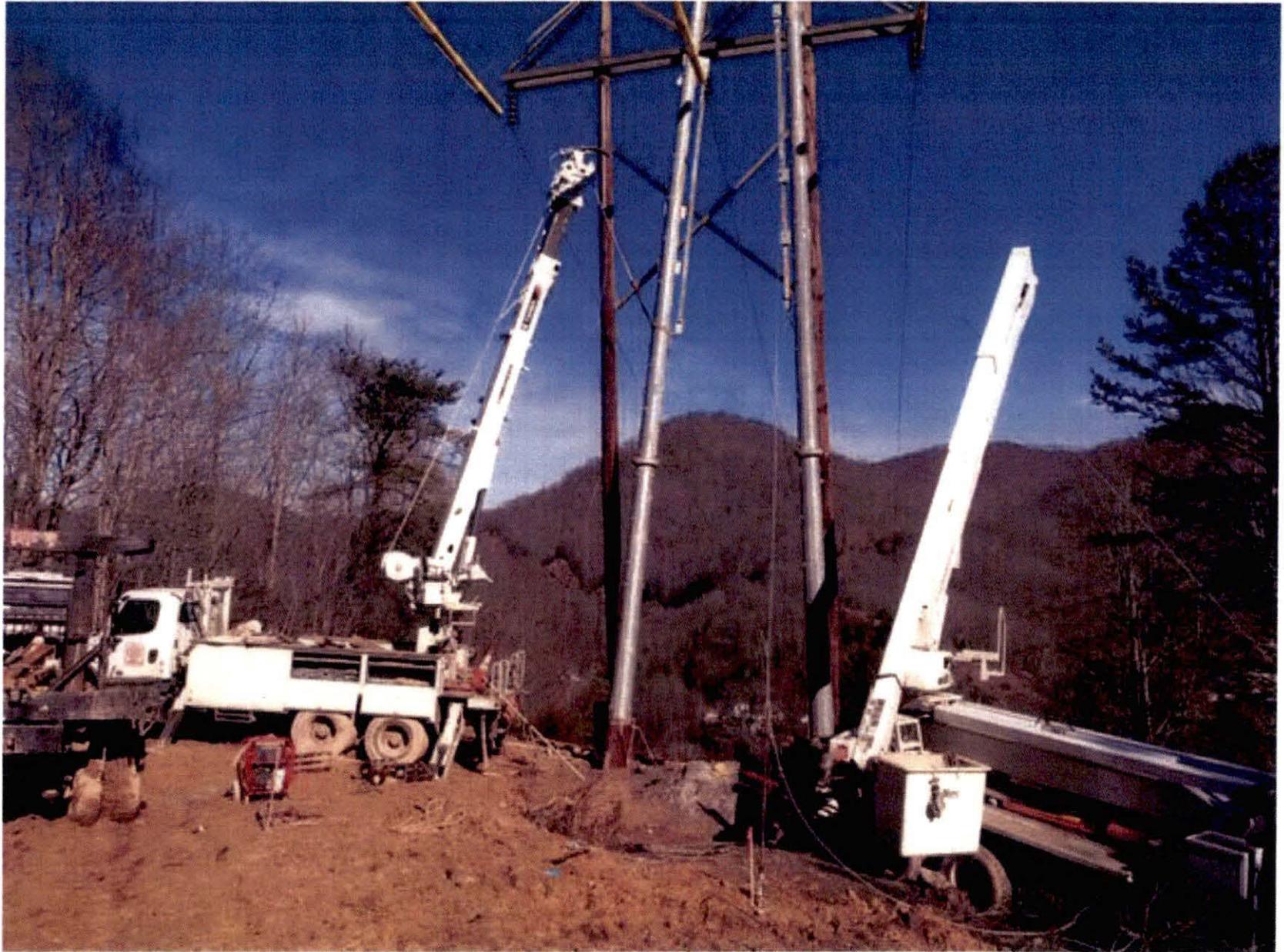


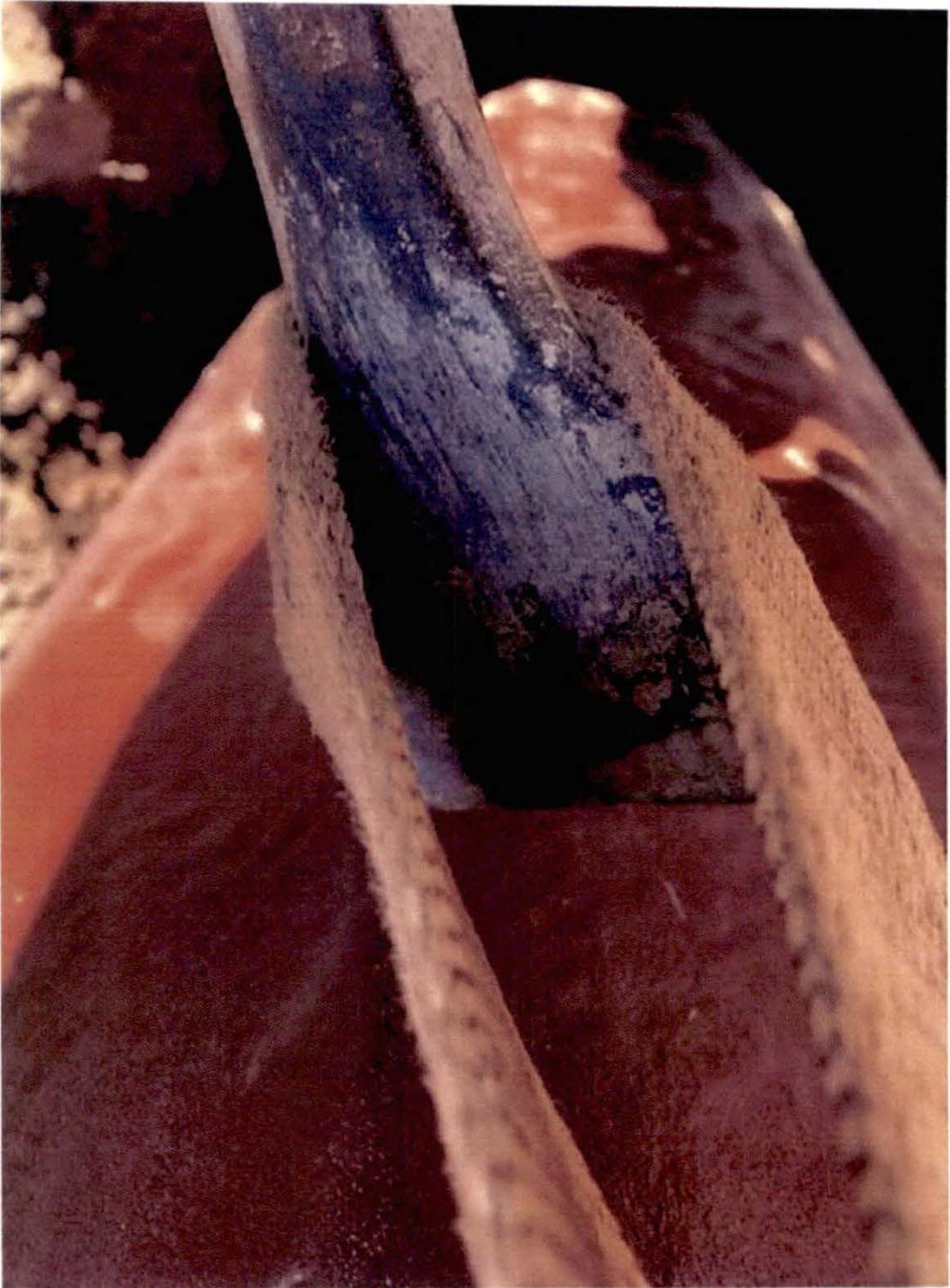


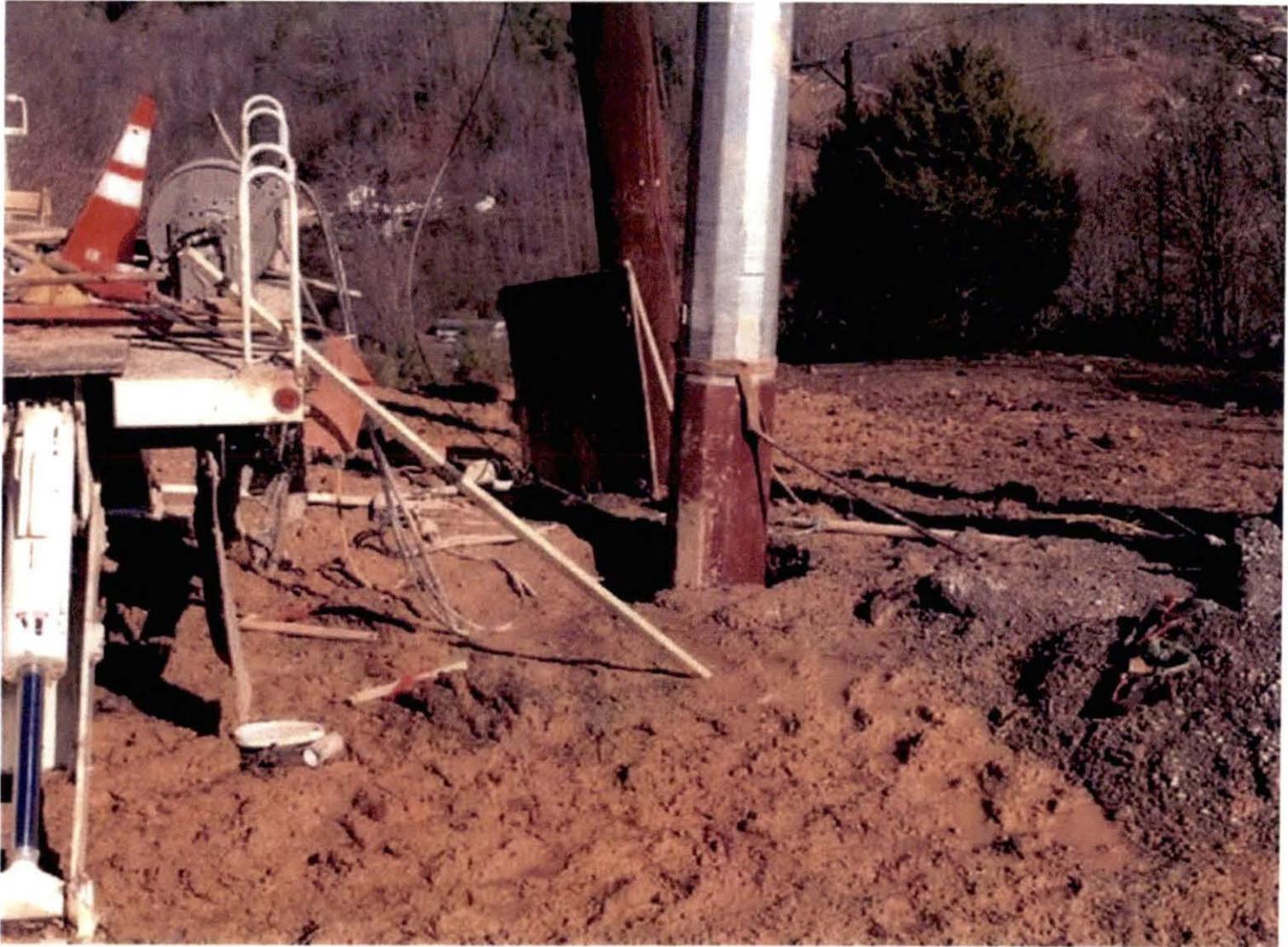


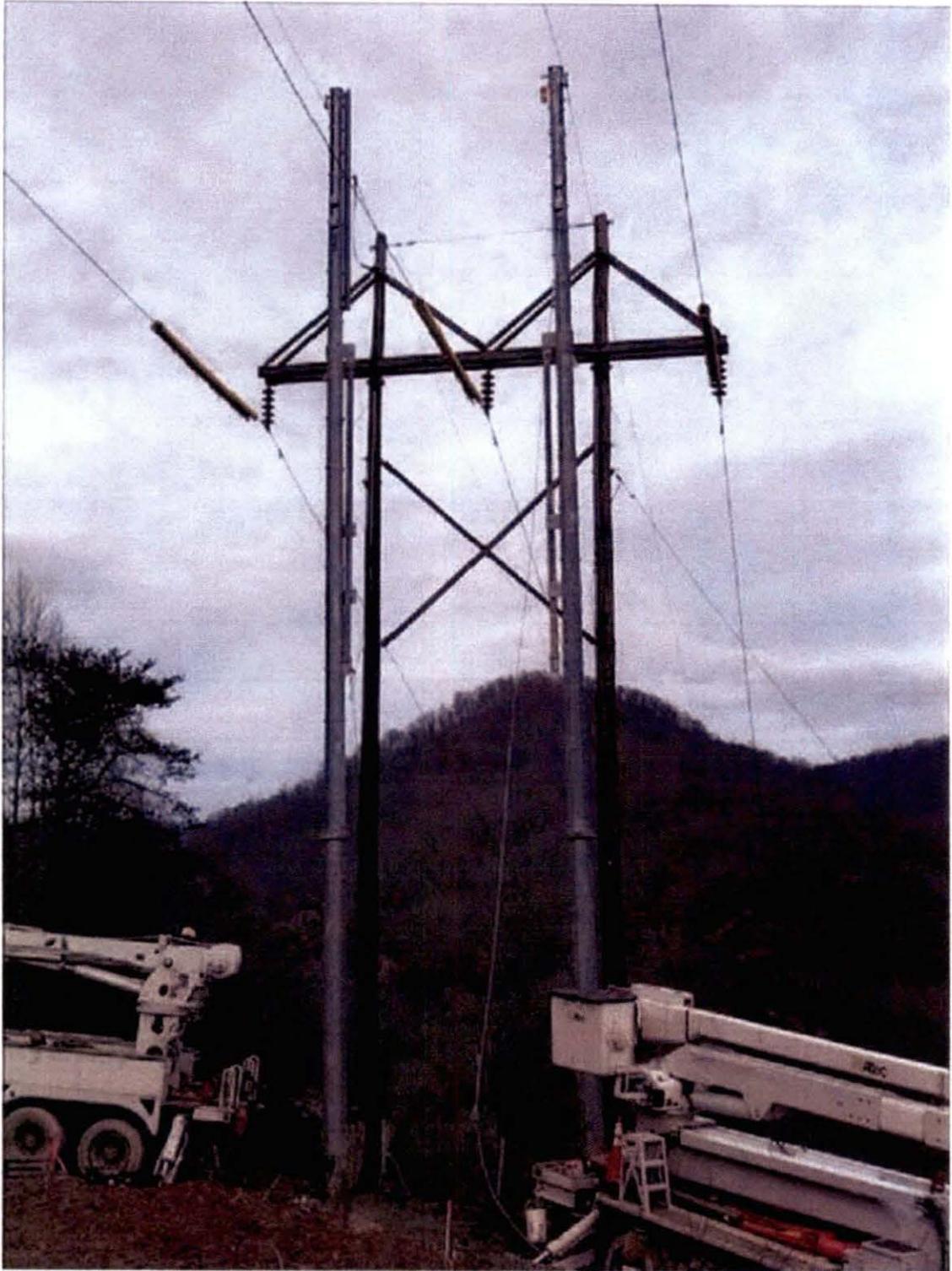




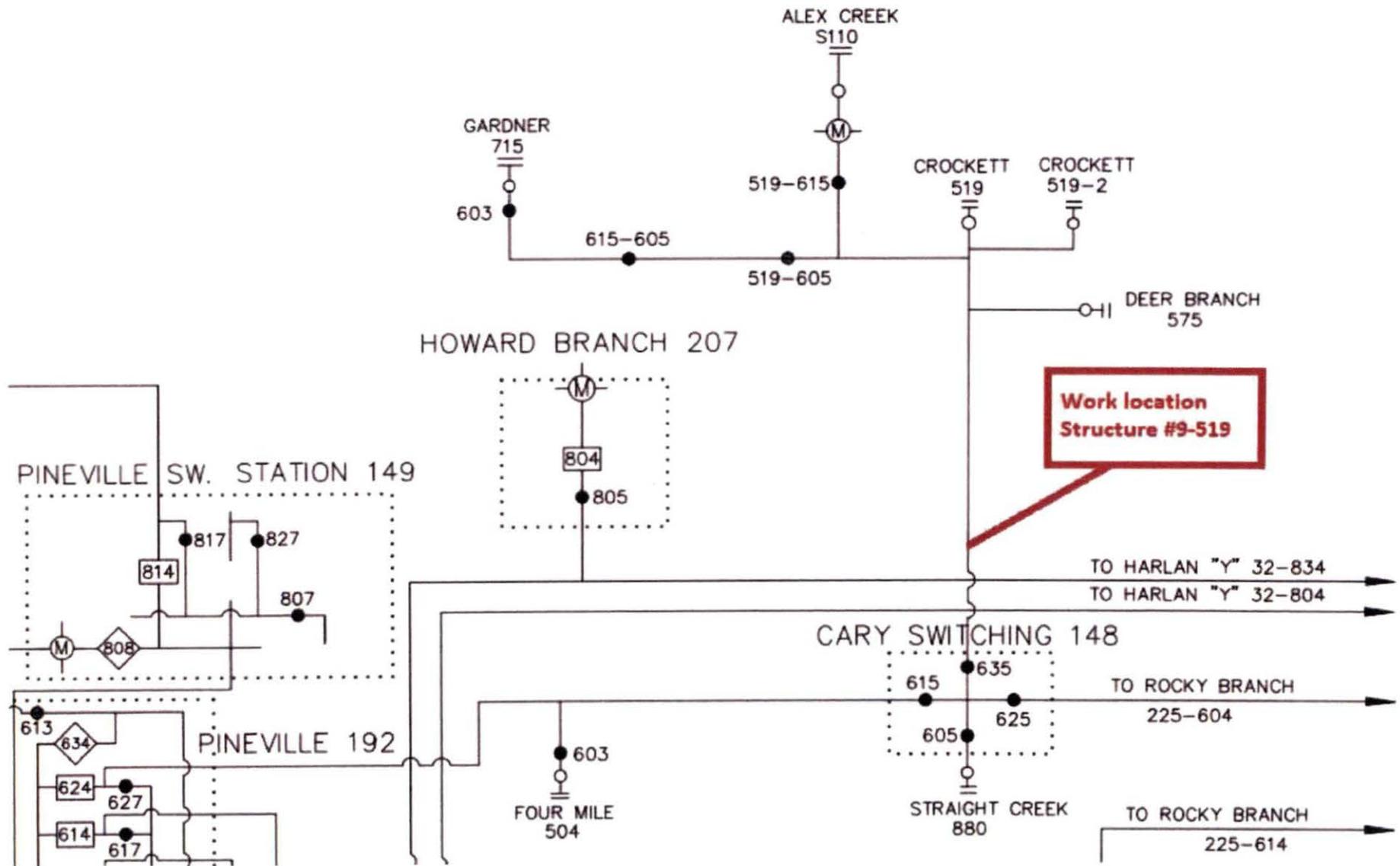












Info

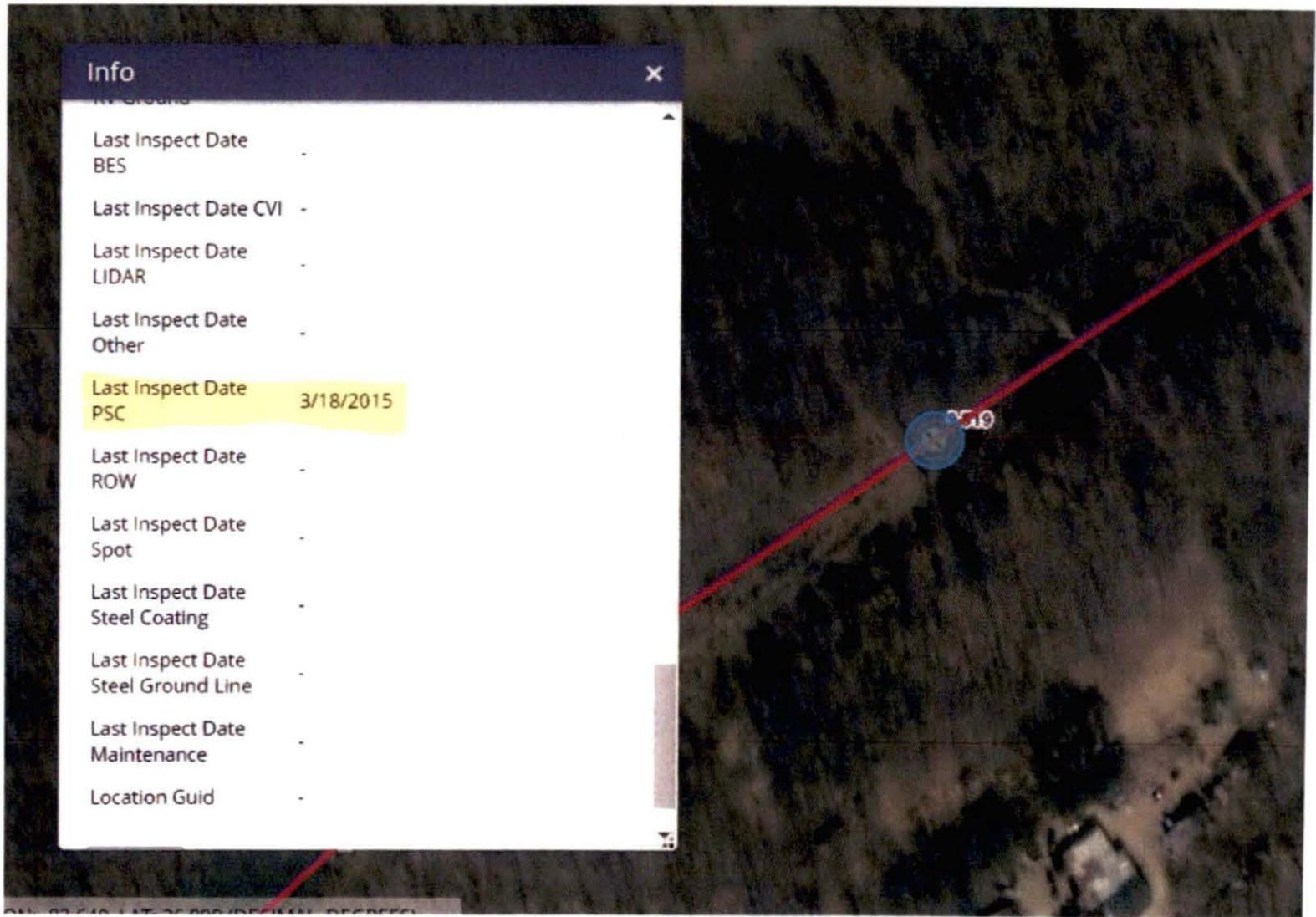
Identify Result

Clear All  

<Prev 1/2 results found Next>

Data Type: Submitted Structures

Structure Number	9-519
Line ID	694041
Line Name	PINEVILLE 192 (624) - CARY 148 - ROCKY BRANCH 225 (604)
Line ID 2	-
Line Name 2	-
Line ID 3	-
Line Name 3	-
Line ID 4	-
Line Name 4	-
Alternate Line ID 1	004103DA
Number of Circuits	-



Info

- Last Inspect Date BES -
- Last Inspect Date CVI -
- Last Inspect Date LIDAR -
- Last Inspect Date Other -
- Last Inspect Date PSC 3/18/2015
- Last Inspect Date ROW -
- Last Inspect Date Spot -
- Last Inspect Date Steel Coating -
- Last Inspect Date Steel Ground Line -
- Last Inspect Date Maintenance -
- Location Guid -

Ratings for both breakers based on what is in Cascade:

Pineville Transmission 192-624

Continuous Current	1200Amps
Interrupting	25.34kA

Rocky Branch 225-604

Continuous Current	2000Amps
Interrupting	40kA

Operated while in Non-reclose @ 12:29pm 1/22/19



FormType
BriefingRoster
Briefing Date
01/22/2019
Job Location Street Address or nearest crossroads
8335 Ky Hwy 66. Arjay, Ky.
Emergency Numbers (911 or Other)
911 Pineville Community Hospital 850 Riverview Rd Pineville, KY (606)337-3051
Description of work to be performed
Obtain one shot on transmission line and nearby distribution line. Drill holes for storm guys. Set both poles ensuring proper distance and level. Transfer wire to new poles while energized. Wreck out old structure.

When conducting the briefing, please use the Reference guide page as a reminder to discuss possible hazards or conditions that may be present at the job site and for protective equipment or precautions that may be necessary for the safety of the crew. Keep in mind there may be additional hazards or conditions other than those listed. Make sure each person understands the job to be performed and the protective measures to be taken before allowing them to sign this form.

Select Reference Page Type
<input checked="" type="checkbox"/> Transmission/Distribution (OHD)
Foreman (Employee In Charge) Name
Robert Hardy

Recognized hazards, personal protective equipment, energy source controls, special precautions, work procedure(s) to be used, and any other information that could affect the safety of my crew. I have verbally delivered my job briefing to my crew and have given each member the opportunity to ask questions.

I will appoint an observer or observers when and as required by company policy.

Additional briefings must be conducted if the scope of the work changes significantly or if additional hazards are recognized.

I am committed to work by the safety rules, to watch out for my co-workers, to speak up when I see a potentially unsafe condition or behavior, to accurately communicate with my co-workers, to ask questions if I am unsure, and to lead by example.

Observer(s)(1)
Observer Name
WILLIAMS, JOEY 3002658

What are you going to do today to ensure an Accident Free Workspace?

MAD on 69 is 3ft 4in
Energized distribution line near by
Obtain one shot on 69kv line.
When setting poles never stand under a suspended load or stand in the line of fire
Never get in a pinch point when pole is aloft pole to ground, pole to truck, etc
Have good three way communication with each task you perform.
Wet/muddy conditions watch for slips trips and falls
Wear and use all proper PPE HH,SG,STB,LG, FR
When removing hole cover have communication when everyone
Make sure all trucks are coned,chocked, and grounded
When framing watch for pinch points
Make sure your rigging is rated for what your doing
When moving wire have three way communication
An observer must be observing at all times
Have 100% fall protection when in the air
Cone off the drop zone and dont enter the drop zone unless overhead work has stopped
Cold weather conditions if you get cold get in and warm up
When traveling to job site have the proper following distance 4seconds in a small truck 7 seconds in a big truck
Narrow roads
Very cold conditions watch for possible ice
Be a defensive driver
Always wear your seat belt in any equipment
Always have a spotter when backing
Don't get tunnel vision
Keep your mind on your task
Watch out for one another

Video Training included during Job Briefing?

No

Crew Members(1)

Employee Name

CORNETT, LANE 3001165

Employee Number

3001165

Employee Job Title

LINEMAN APPRENTICE 5

Employee Signature



Signed Date/Time

01/22/2019 07:29 AM

Crew Members(2)

Employee Name

FAULCONER, JEFFREY 3003718

Employee Number

3003718

Employee Job Title

LINEMAN C

Employee Signature



Signed Date/Time

01/22/2019 07:34 AM

Crew Members(3)

Employee Name

PRESTON, ANDREW 3002596

Employee Number

3002596

Employee Job Title

LINEMAN APPRENTICE 2

Employee Signature



Signed Date/Time

01/22/2019 07:34 AM

Crew Members(4)

Employee Name

WILLIAMS, JOEY 3002658

Employee Number

3002658

Employee Job Title

OPERATOR TRANS 3

Employee Signature



Signed Date/Time

01/22/2019 07:34 AM

Crew Members(5)

Employee Name

HARDY, ROBERT 45049

Employee Number

45049

Employee Job Title

FOREMAN TRANSMISSION

Employee Signature



Signed Date/Time

01/22/2019 07:35 AM

Are Visitors Present?

No

Add Photograph(s)?

No

Job Briefing Code

Please change this number each time you submit an update, add visitors, add crew members, etc.

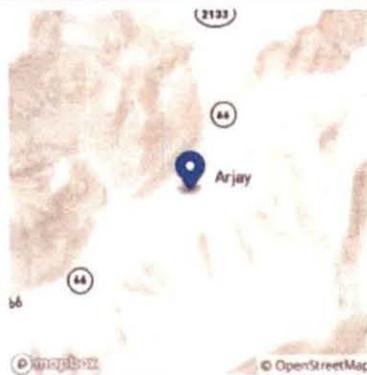
For example on your initial briefing this should be "JB01".

If you add a visitor you will need to update this to "JB02" then submit it again.

If you were to add additional information later in the day you would change it to "JB03" when re-submitting.

JB01

GPSLocation



Latitude : 36.803997
Longitude : -83.648661
Altitude : 319.0 m
Accuracy : 71.8 m

Form Complete?

Yes

RENTAL #: _____

KIN MAR

7

PHONE: 859-385-4303

FAX: 859-402-1629

CERTIFIED DIELECTRIC TESTING

2525 WADES MILL ROAD

WINCHESTER, KY 40391

nmartin@kinmarllc.com

COMPANY NAME: DAVIS H ELLIOT

COST CENTER: 4200400
TEST DATE: 11-24-16

TEST LOCATION: E TOWN

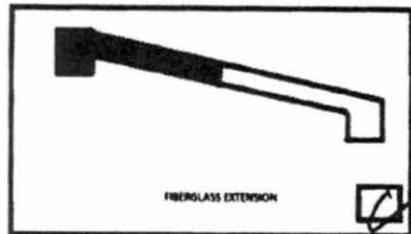
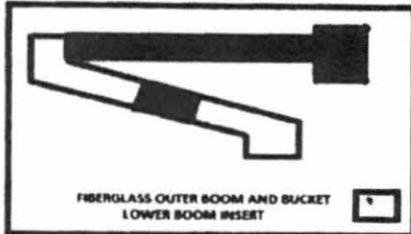
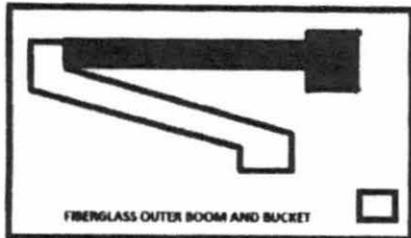
TRUCK MAKE / MODEL: FL

UNIT #: L3153

BOOM MAKE / MODEL: Terex C6080

P.O. # _____

BOOM TYPE BEING INSPECTED



TEST PERFORMED	VOLTAGE	TEST TYPE	LEAKAGE IN MICROAMPERES	PASS / FAIL
	100,000	UPPER BOOM		
	84,000	CAT A & B		
	56,000	CAT B		
<u>F</u>	56,000	CAT C	<u>4 mA</u>	<u>PASS</u>
	50,000	INSERT		
	100,000	LINER	N/A	
	56,000	INSULATED CONTROLS		
	56,000	INSULATED JIB		

QUANTITY	VOLTAGE	HOTSTICK TYPE	PASSED	FAILED
	75KV WET	SHOTGUNS & MISC		
	75KV WET	EXTENDOS		

LINER REMOVAL TOOL REMOVAL

MISC INFORMATION: _____

CUSTOMER REPRESENTATIVE: _____

KINMAR REPRESENTATIVE: C. Luke Martin

*THESE ARE THE RESULTS OF THE TEST PERFORMED ON THIS DATE, NOT A GUARANTEE. WE RECOMMEND INSPECTING ALL SAFETY AND WORK EQUIPMENT DAILY!!!



PINEVILLE, KY CONTACT INJURY

Location:

On the hillside above Green Camp Rd., near Pineville, KY.

Date:

January 22, 2019

Time:

Approximately 12:20 PM

Equipment Present at Accident Site:

Digger Derrick (Setting Rig)
Material Handler Bucket Truck
Side Loader
Bulldozer
Pickup Truck

Elliot Crew Makeup:

(At the accident site when the accident occurred)

- Foreman
- Lineman Apprentice Step 7
- Equipment Operator
- Lineman C
- Lineman Apprentice Step 2
- Lineman Apprentice Step 3
- Equipment Operator
- Lineman Apprentice Step 5

(Part of the job, but not at the accident location)

- Foreman
- C Lineman

Project Scope:

Two combined crews were working an overall project with seven two-pole 69 KV transmission structures to be changed. The old structures were wooden with wood bracing and were being replaced with new 75' steel poles and bracing. The structure being changed, (#9), was the sixth of the project and was located on a mountainside. An access road had been dozed to the structure location along with pads cleared for equipment to be set up. Two poles were to be set, bracing and arm were to be installed, three phases and two overhead ground wires (statics) were to be transferred, and ultimately the old structure to be removed. The work was to be performed live with hot sticks.

Accident Summary:

The crews had prepared the site, including excavating the holes for the poles, in the days prior to the accident. On Monday (21st), they hauled the poles up the hill to the site and assembled them. A dump truck was brought up to the site to dump the gravel needed for backfilling the holes, and then was removed from the site. A digger derrick setting rig and a bucket truck were brought up to the site and set up. As the ground crew worked preparing the poles and preparing to set the poles, an aerial crew was working to place cover on the live phase conductors and to begin stripping the conductors of armor rods and the U-bolts on the suspension shoes holding the conductors.

On Tuesday (22nd), the crews returned to the site to set the poles and build the structure. An aerial crew relocated the static conductors. The first pole, the downhill pole, was set, plumbed, and tamped, without difficulty.

The second pole, (the uphill pole), was set into the hole. After plumbing, the crew measured for level between the two poles. As the result of all the water flowing into the hole and resulting mud bottom, the crew needed to adjust the hole depth to bring to level with the first hole. As they placed DGA in the hole, they began using a cant hook and a steel bar with a sling to provide two levers for the pole to be twisted. They would twist the pole approximately ten degrees right then twist to the left. This process was repeated for approximately 30 minutes, checking periodically for level. During the process the pole was in the hole, the winch line was attached but not completely taut to allow the pole to be twisted. The operator was monitoring the winch line to provide slack as the pole settled. In addition, the boom tip pole guides were closed enough to secure the pole, but loose enough to allow it to be twisted freely.

While this process was taking place, the pole guides unexpectedly came open. When the

operator saw it, he yelled for everyone to get away. The pole began leaning toward the old structure, which was approximately five feet beyond the new pole. The operator attempted to reclose the guides, he boomed right, and tensioned the winch all in an effort to regain control of the pole. The pole continued to lean and contacted the cross arm of the old structure, between the phases. It seemed to rest there for a short time, but then slid toward the downhill side contacting the center phase near the insulators and suspension shoe.

Four employees were hands on participating in the twisting of the pole on the ground at the pole base. Three workers ran clear when they heard the warning. One employee, the injured, was still contacting the steel bar being used to twist the pole when it contacted the phase. He suffered a shock and burns to his hands and feet.

The conductor and pole arced when the contact was made and the circuit tripped. The crew saw the injured worker on the ground and went to his aid. EMS was notified. The crew put the injured employee into the pickup truck and backed him off the mountain to meet the ambulance.

He was taken by ambulance from the site, and then flown to UT Hospital in Knoxville. Following, he was flown to Vanderbilt in Nashville for additional treatment.

Photos and Diagrams:



1st Pole Set

Phase Contacted

2nd Pole Set

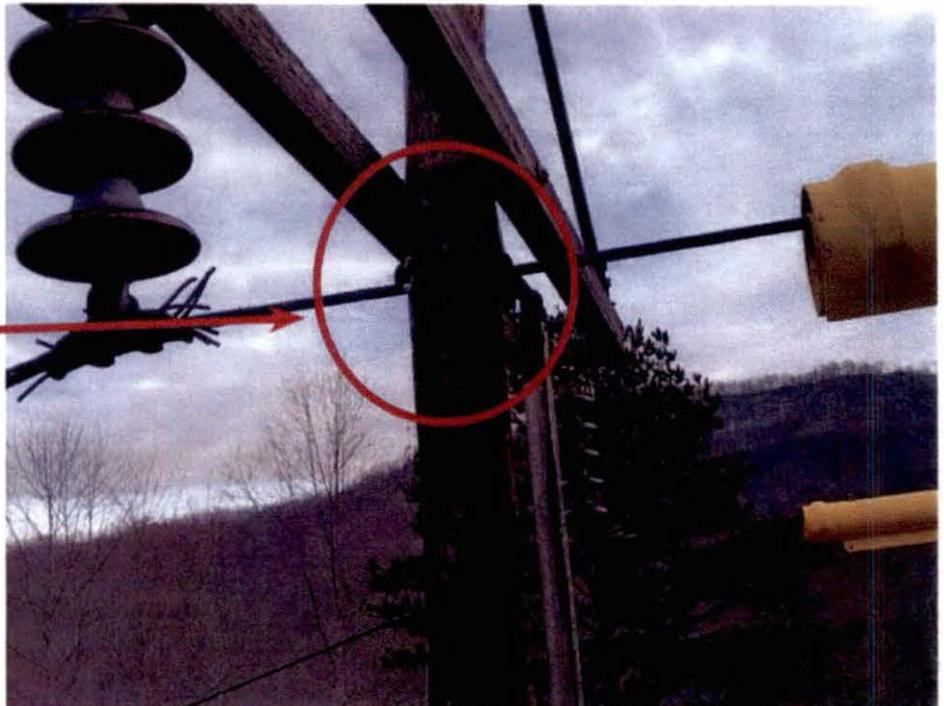
Photo taken after accident and after pole was resecured.



Steel bar and strap used to cant the pole



Burn/ Contact marks on phase

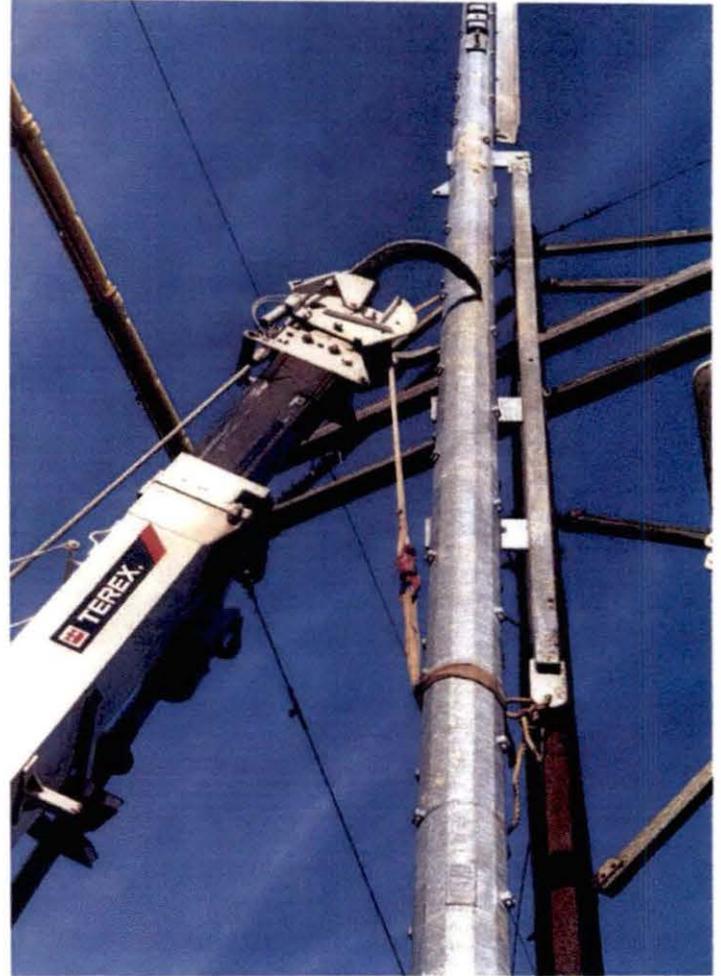
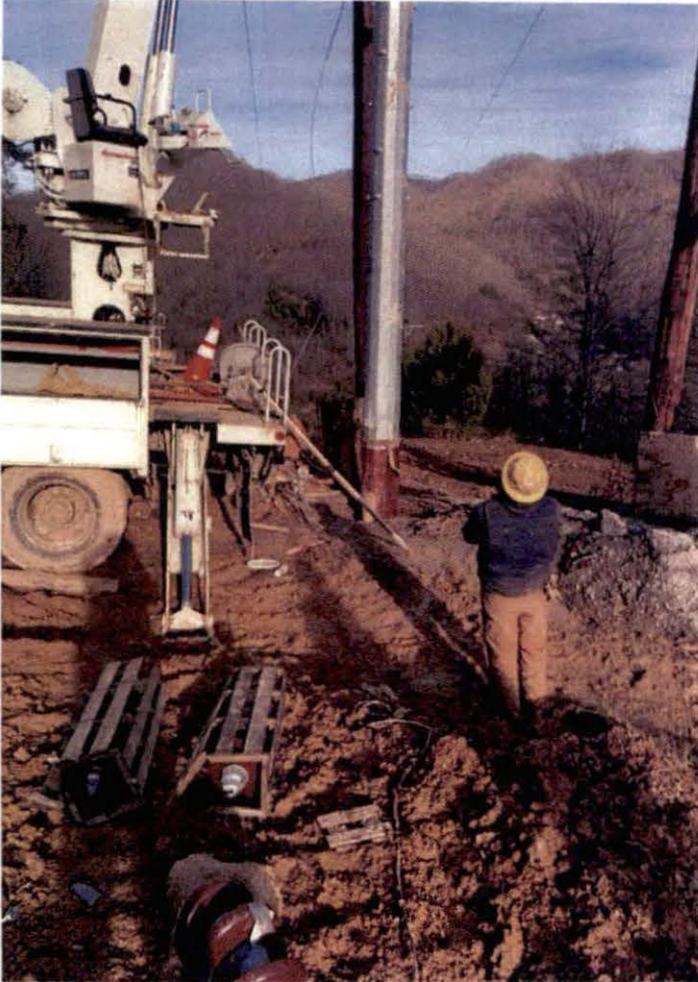


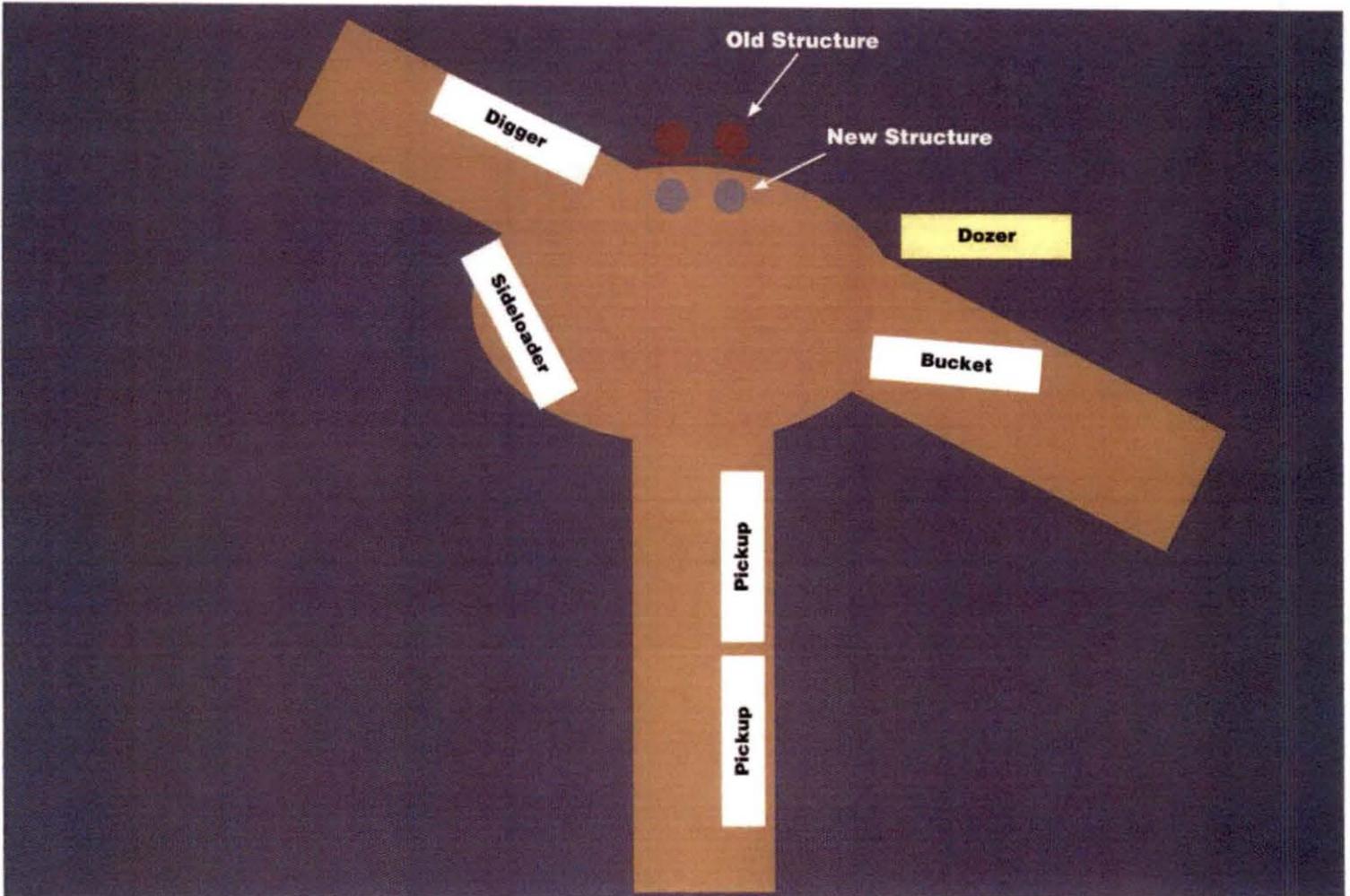
Contact mark on pole brace (x)

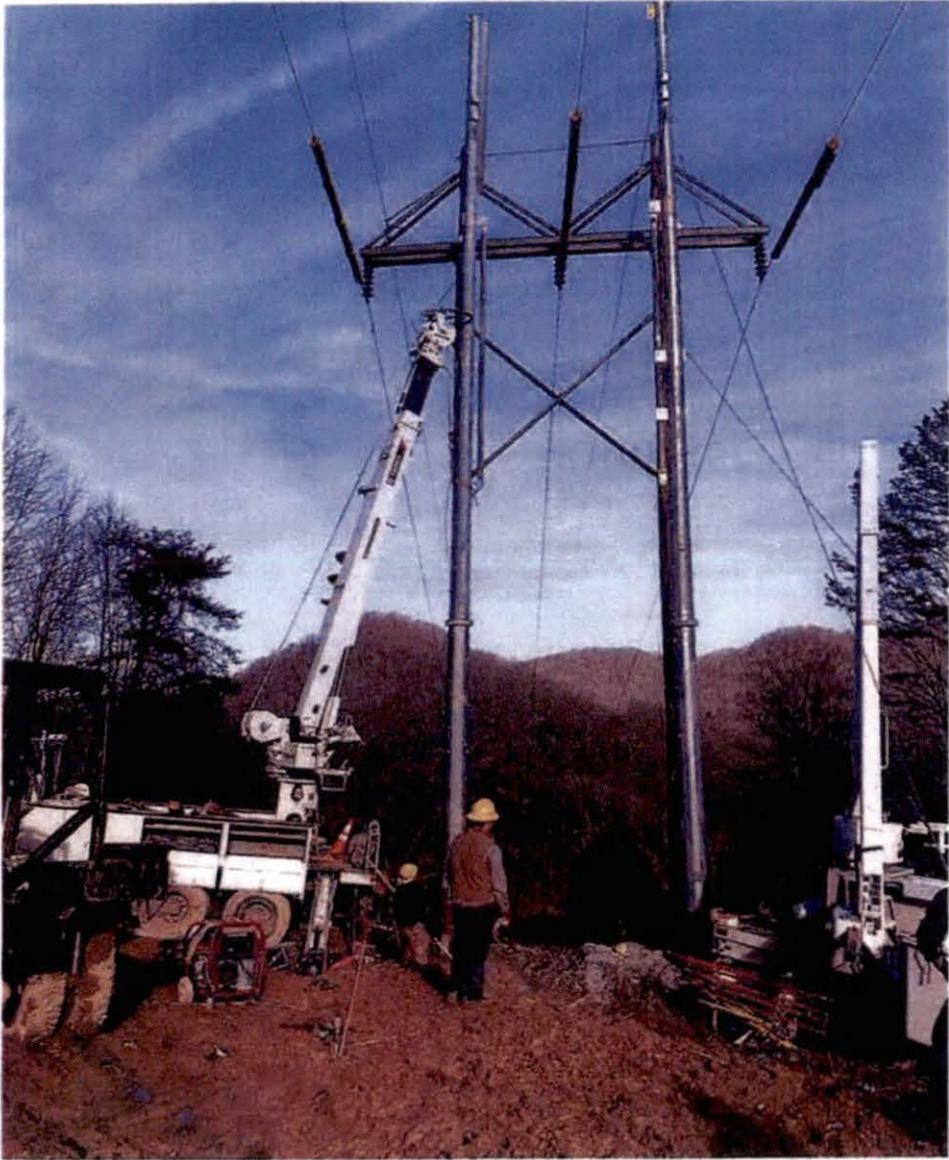


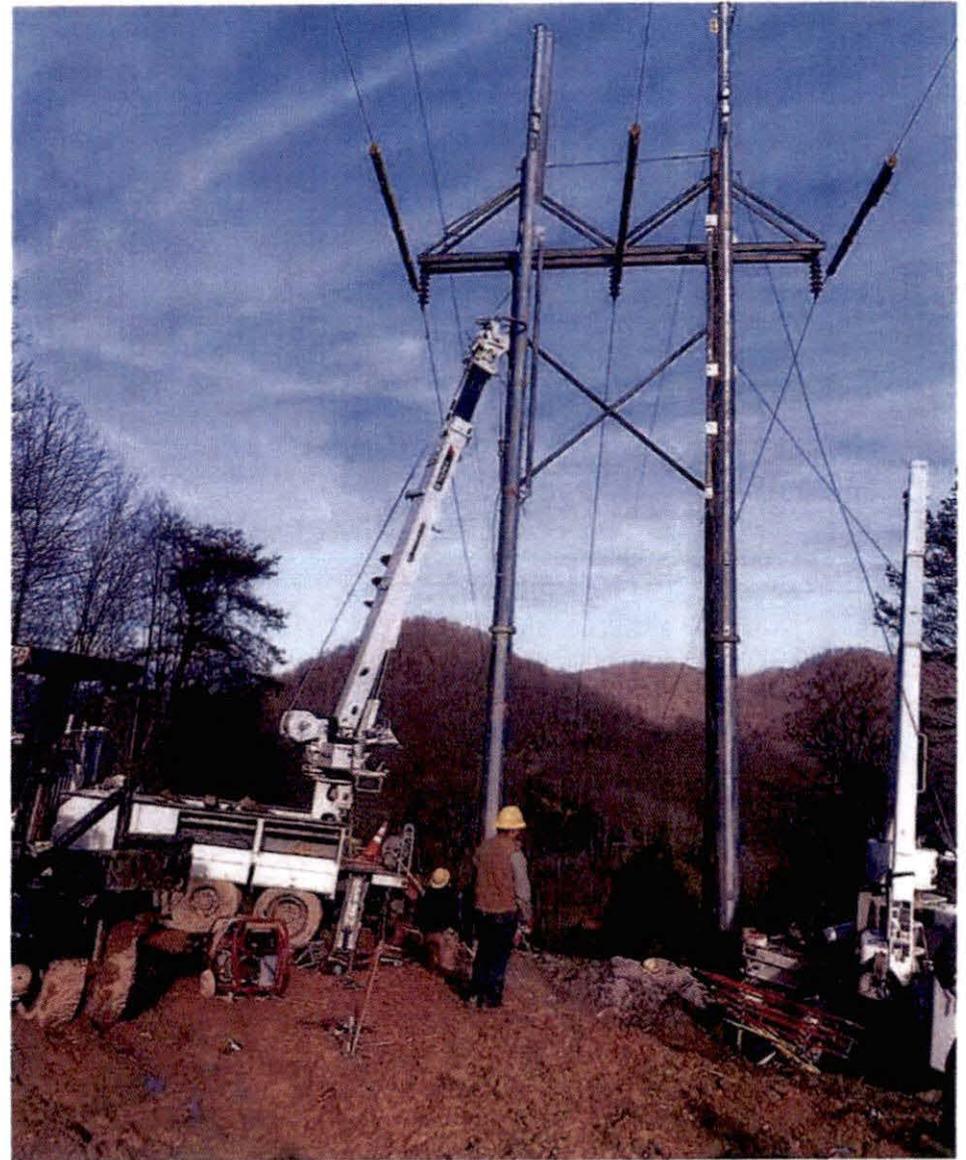
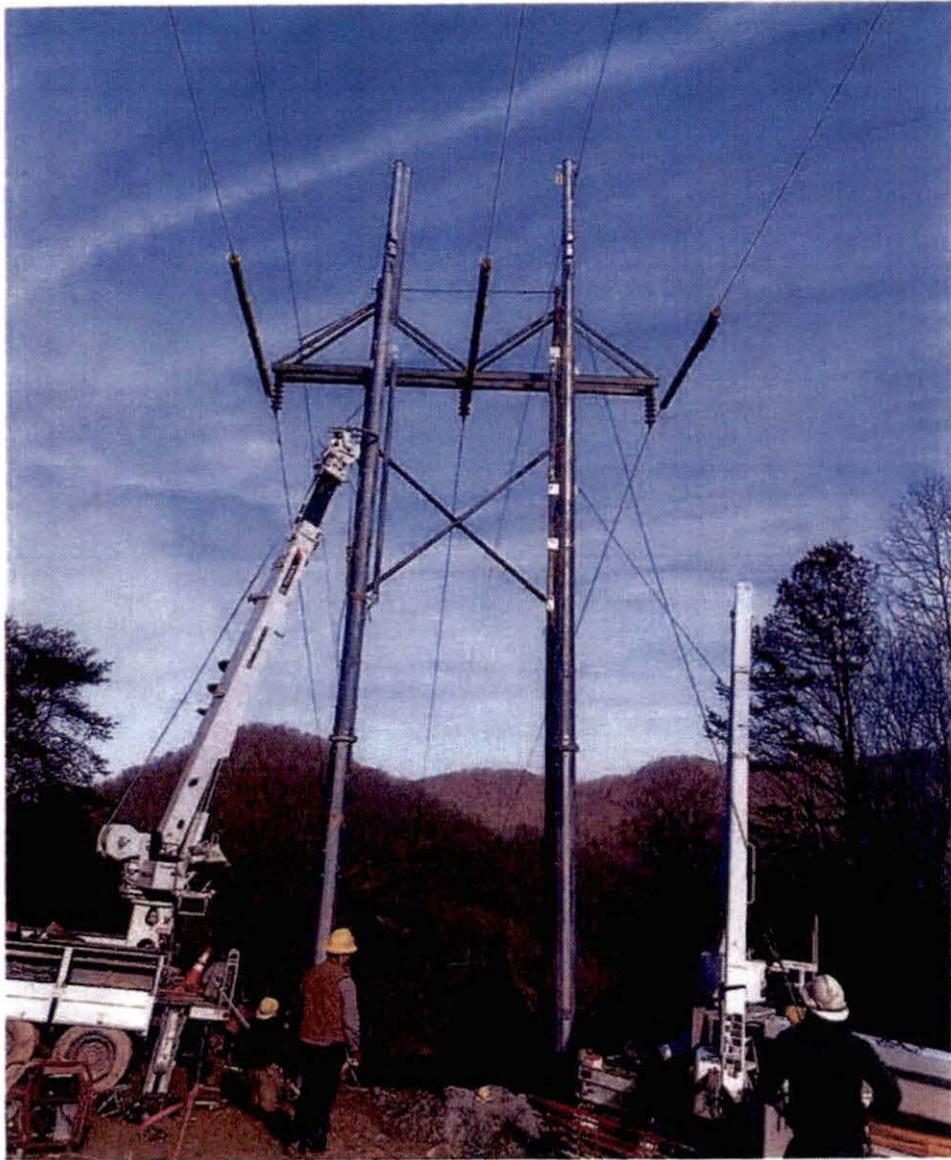
Contact mark

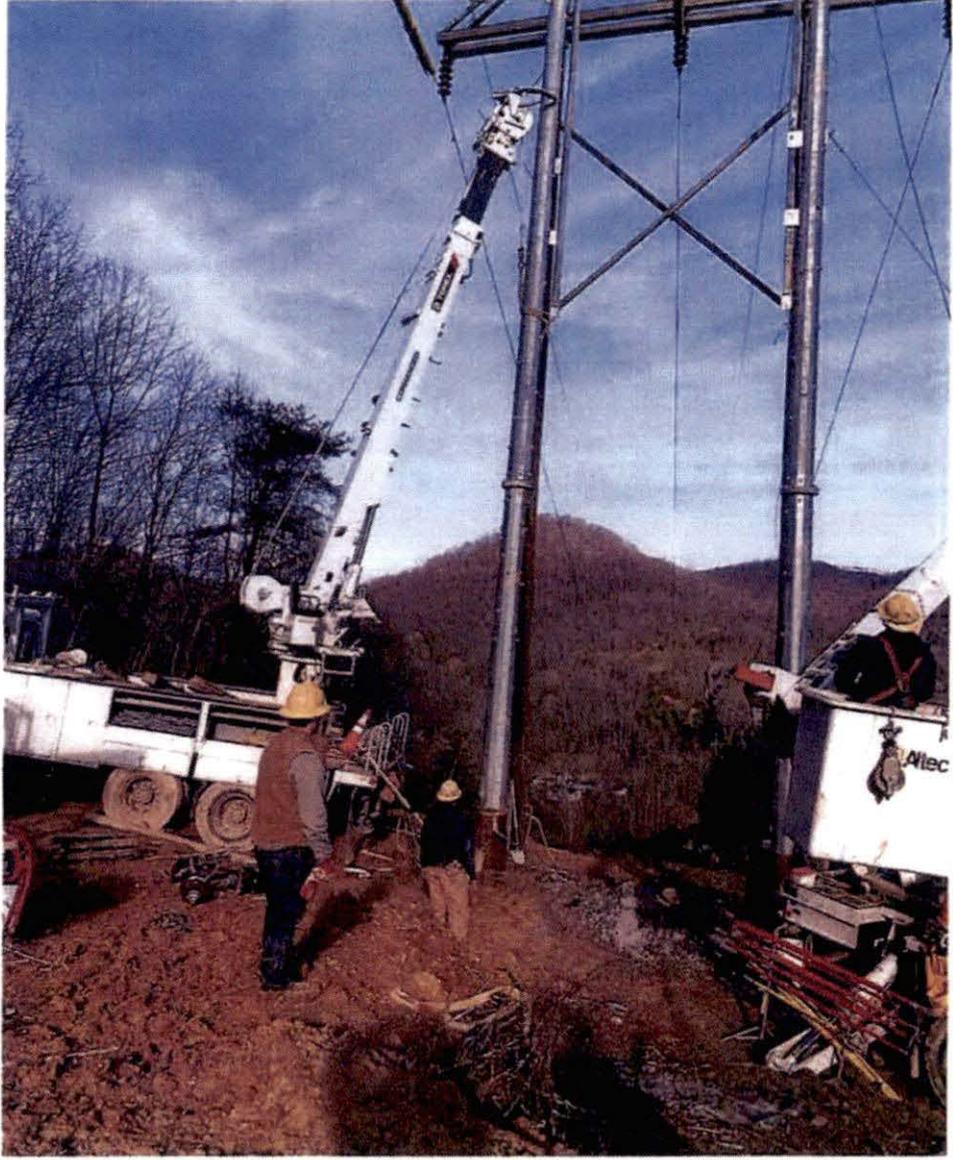




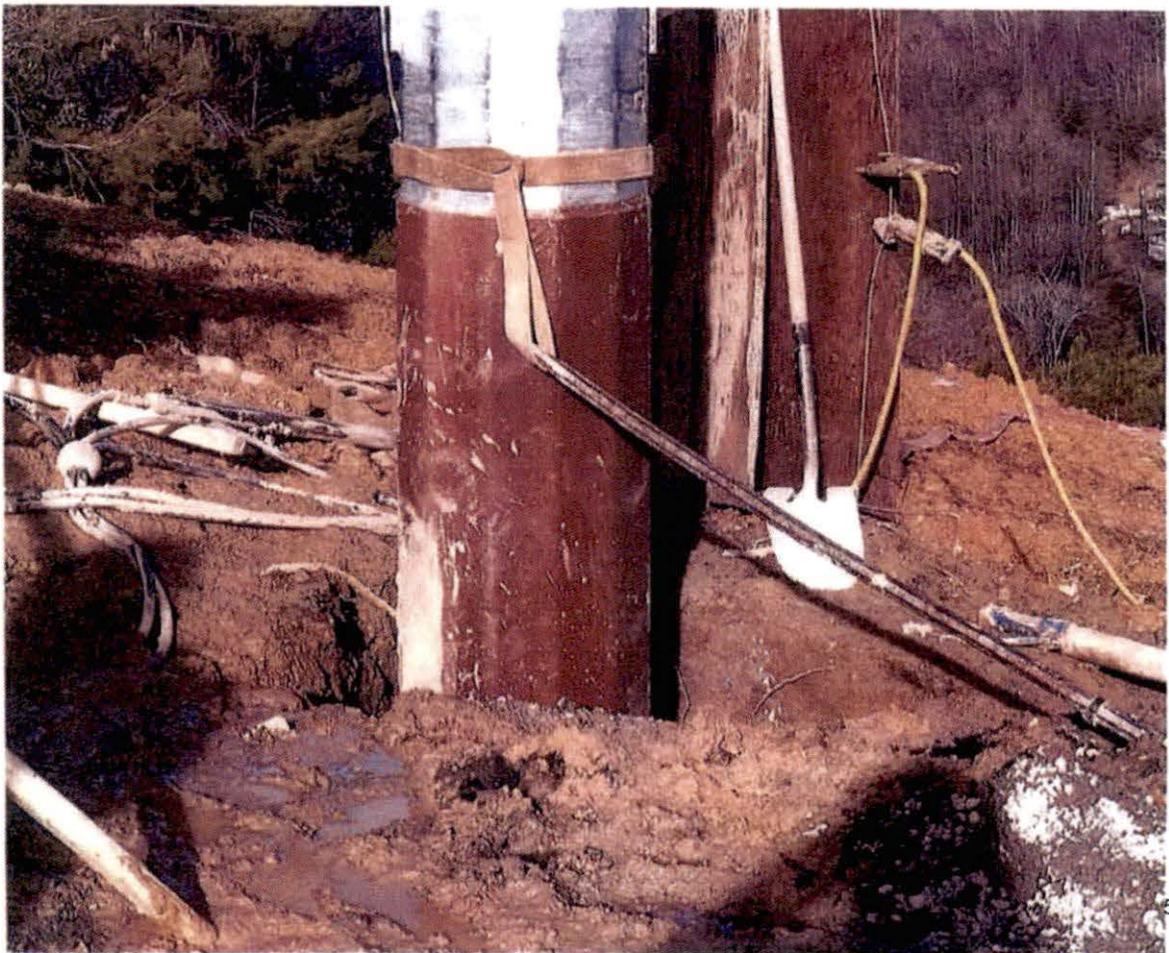




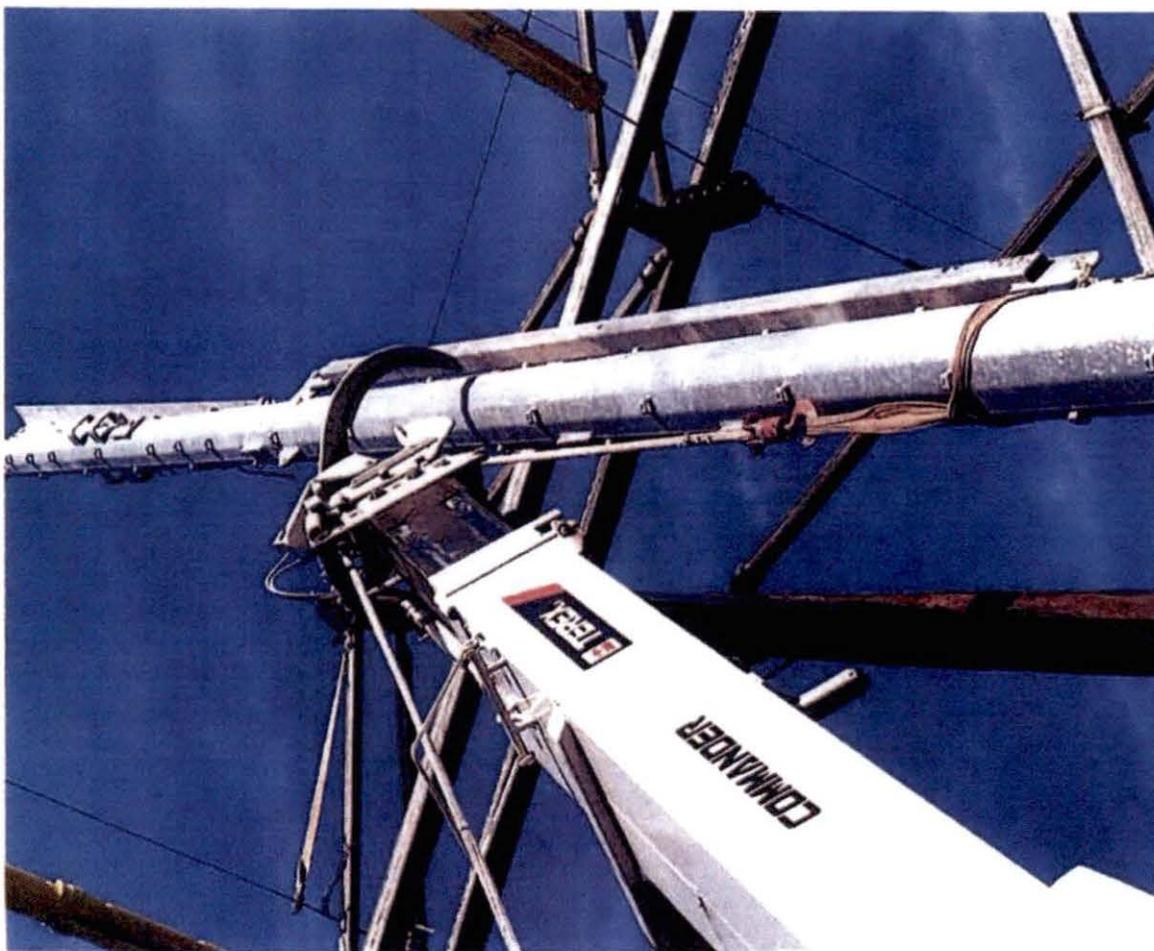


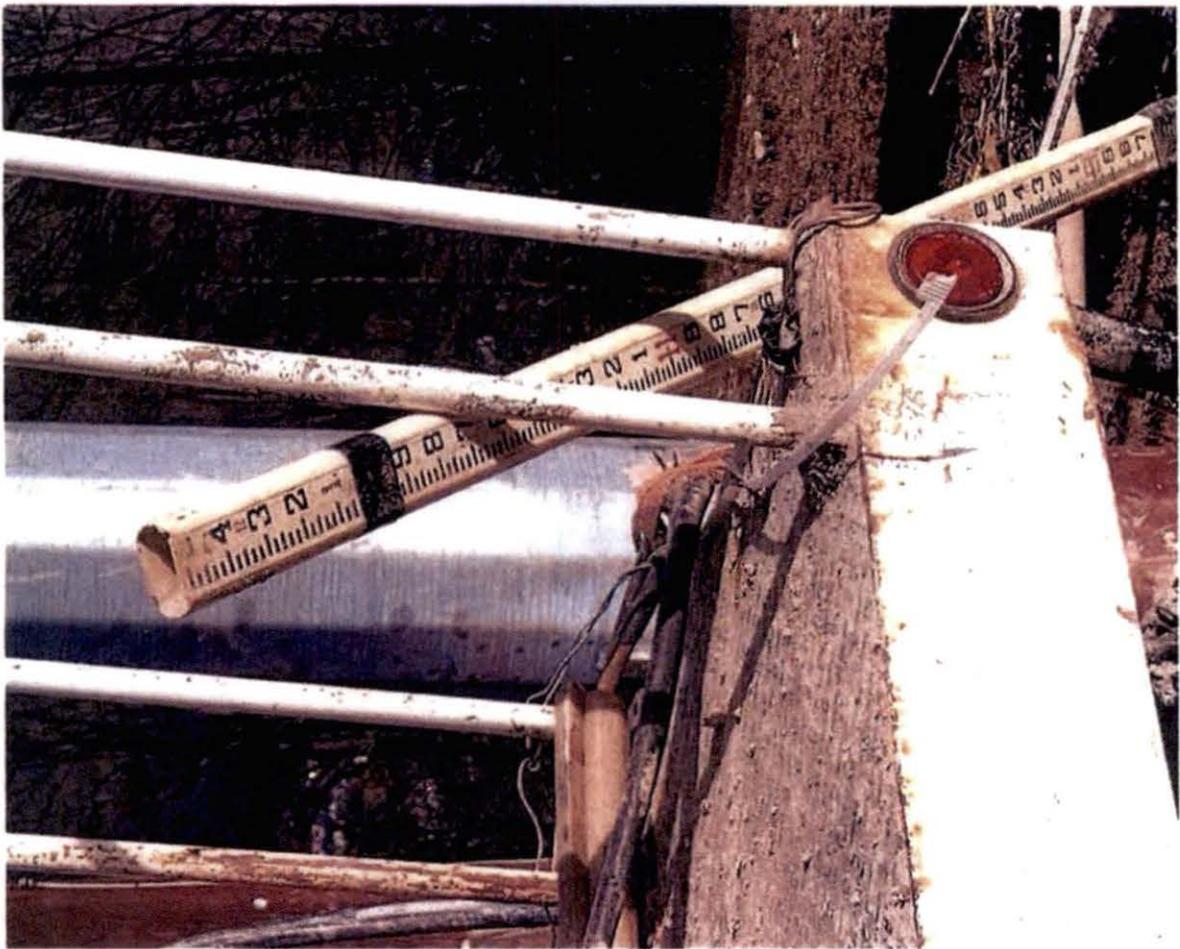


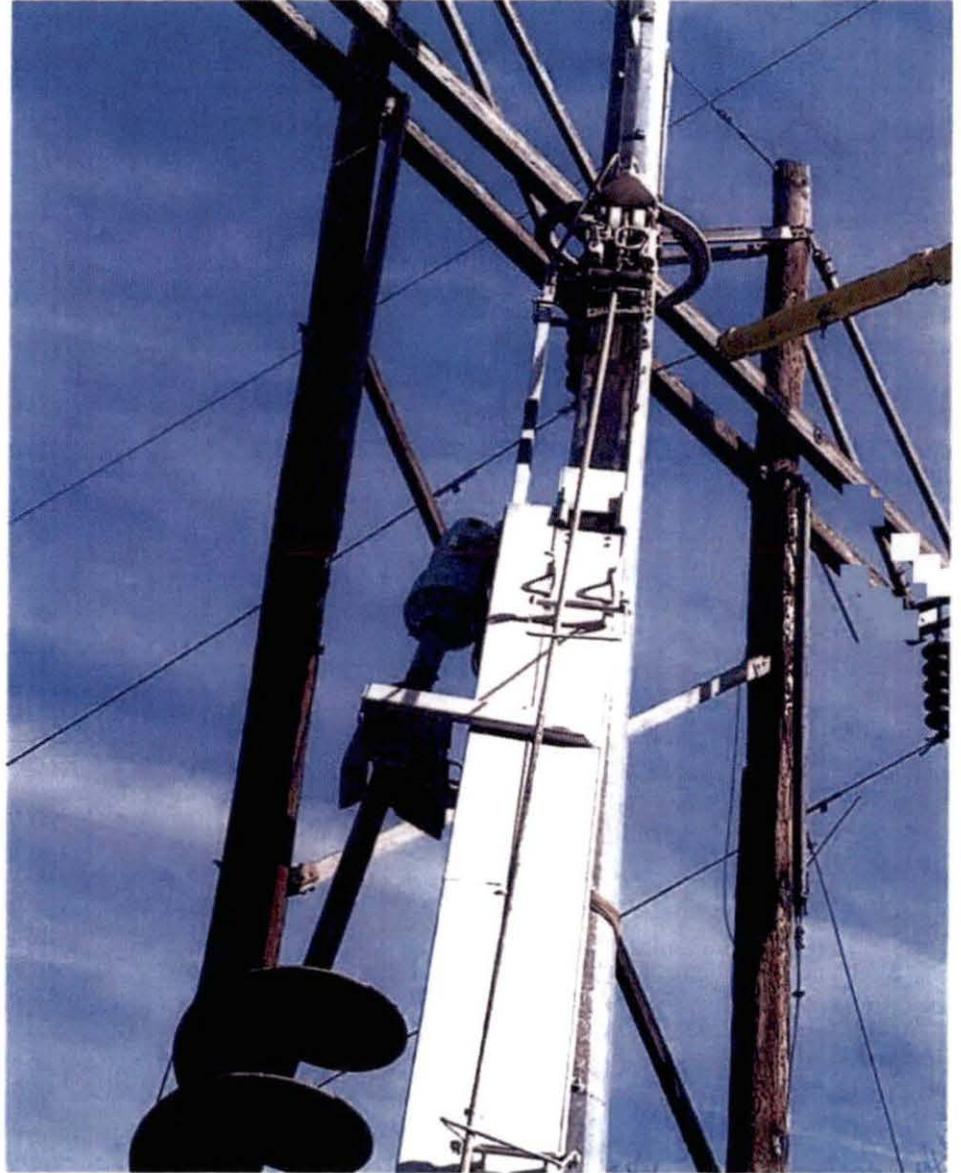


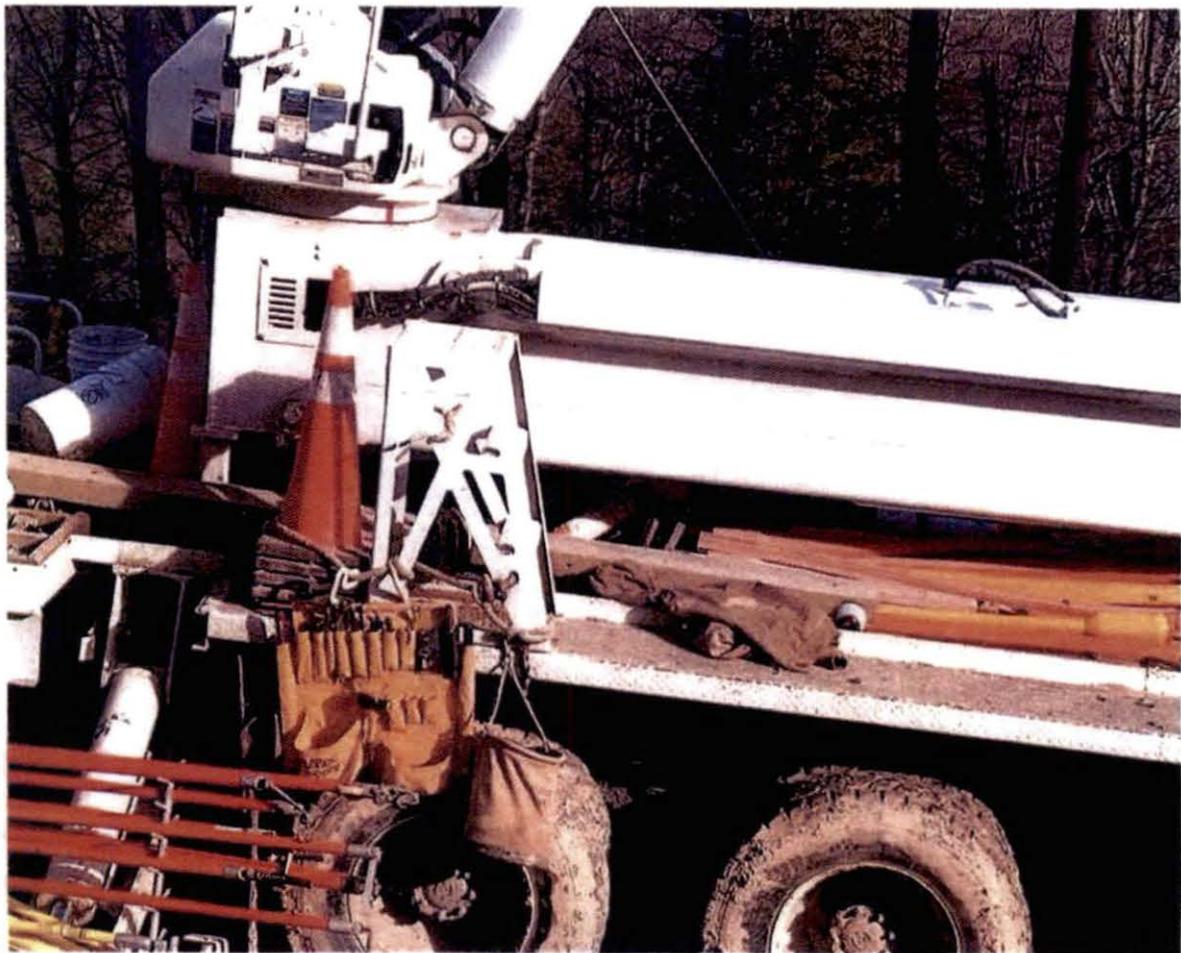


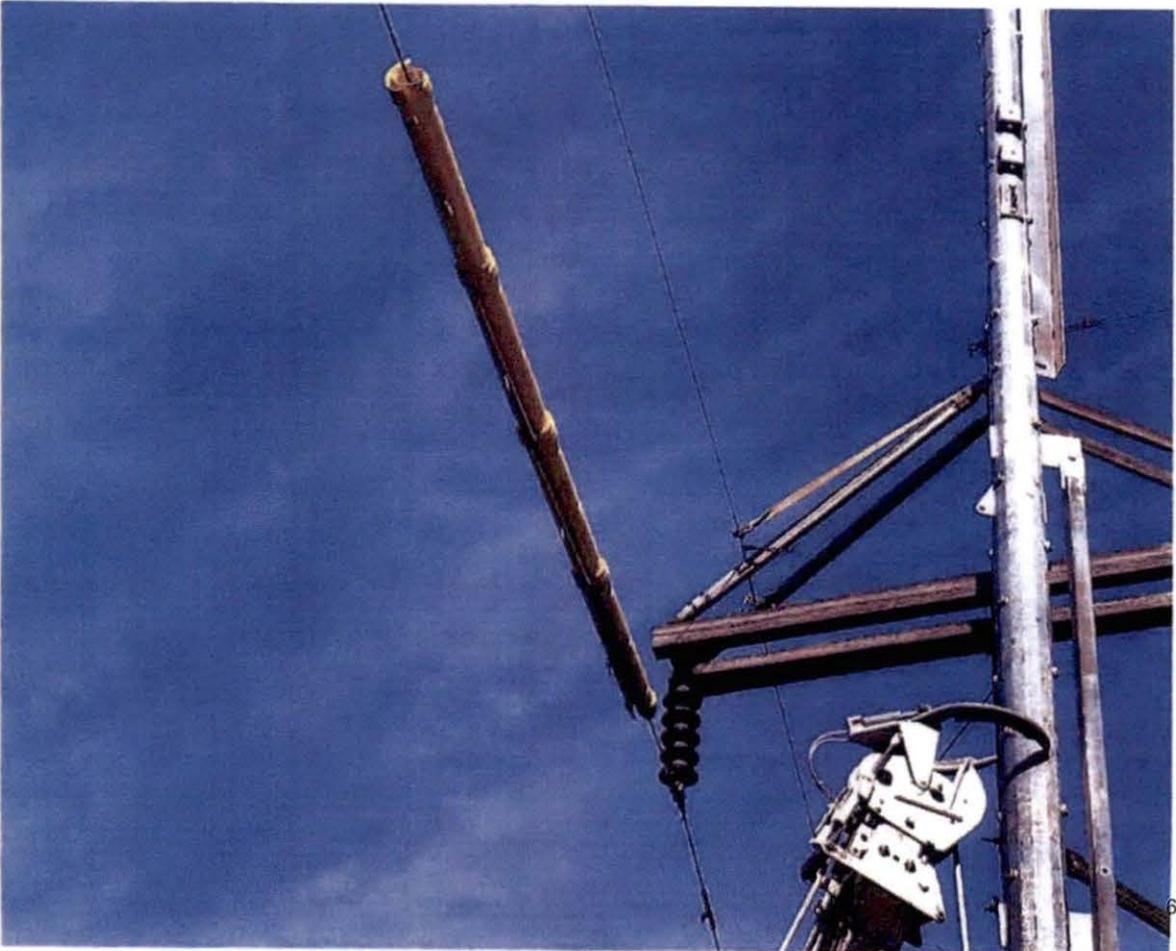
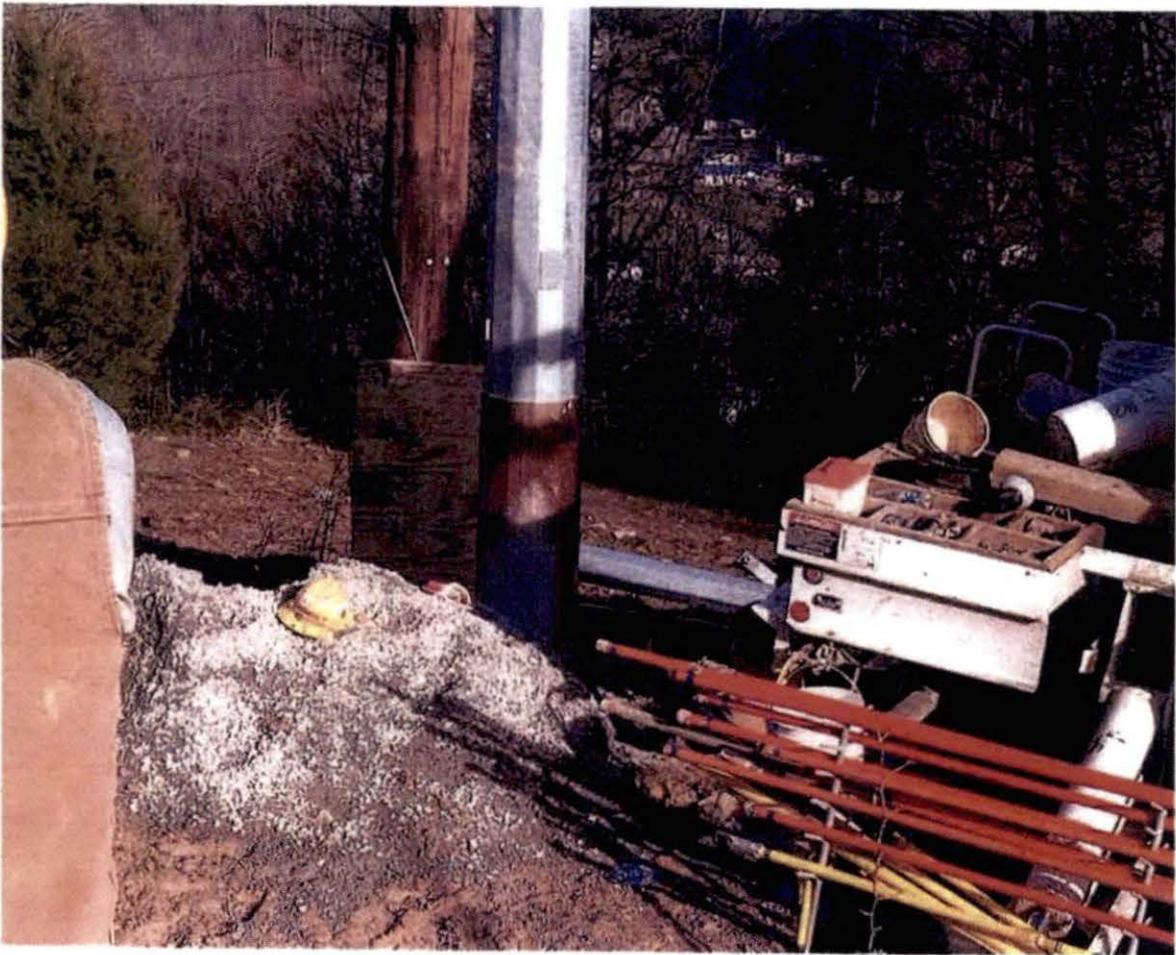


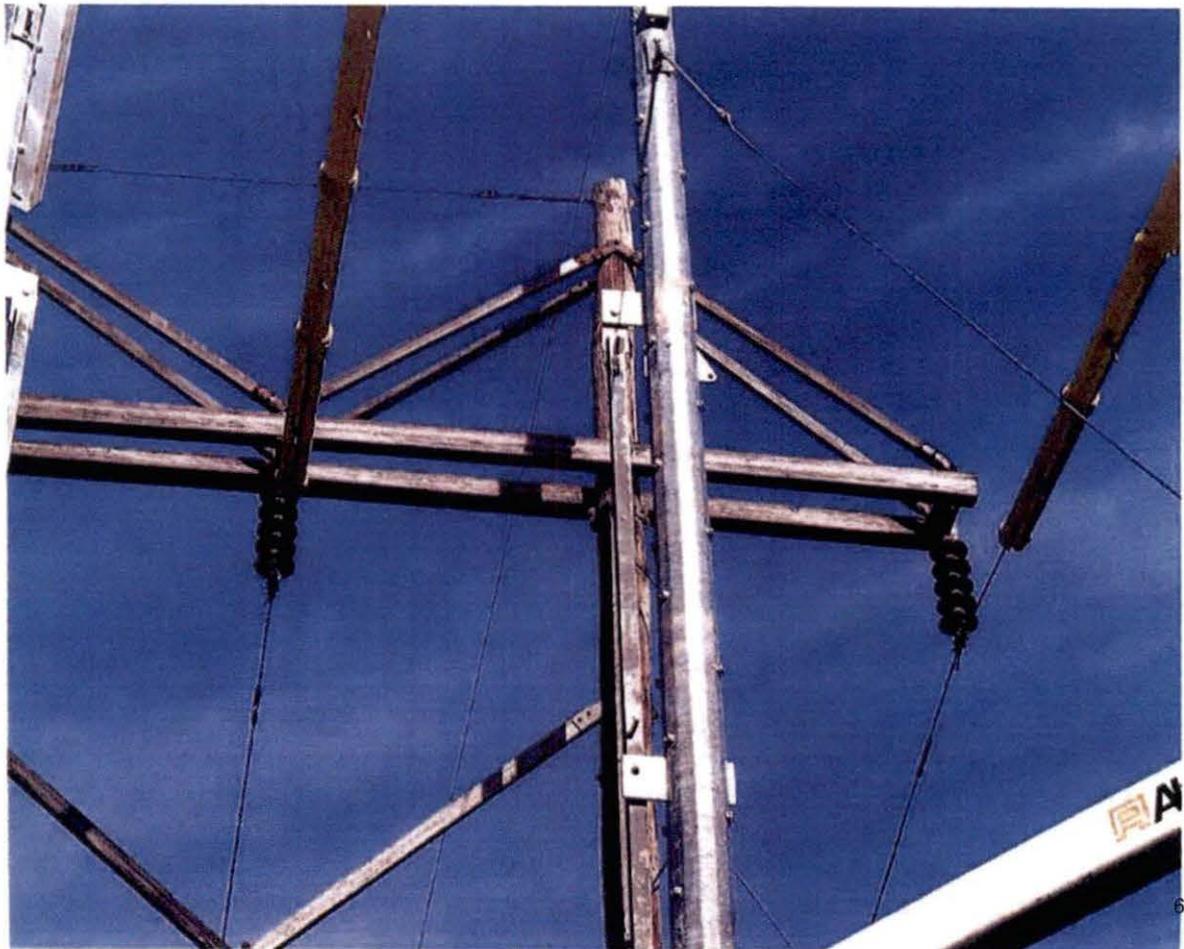
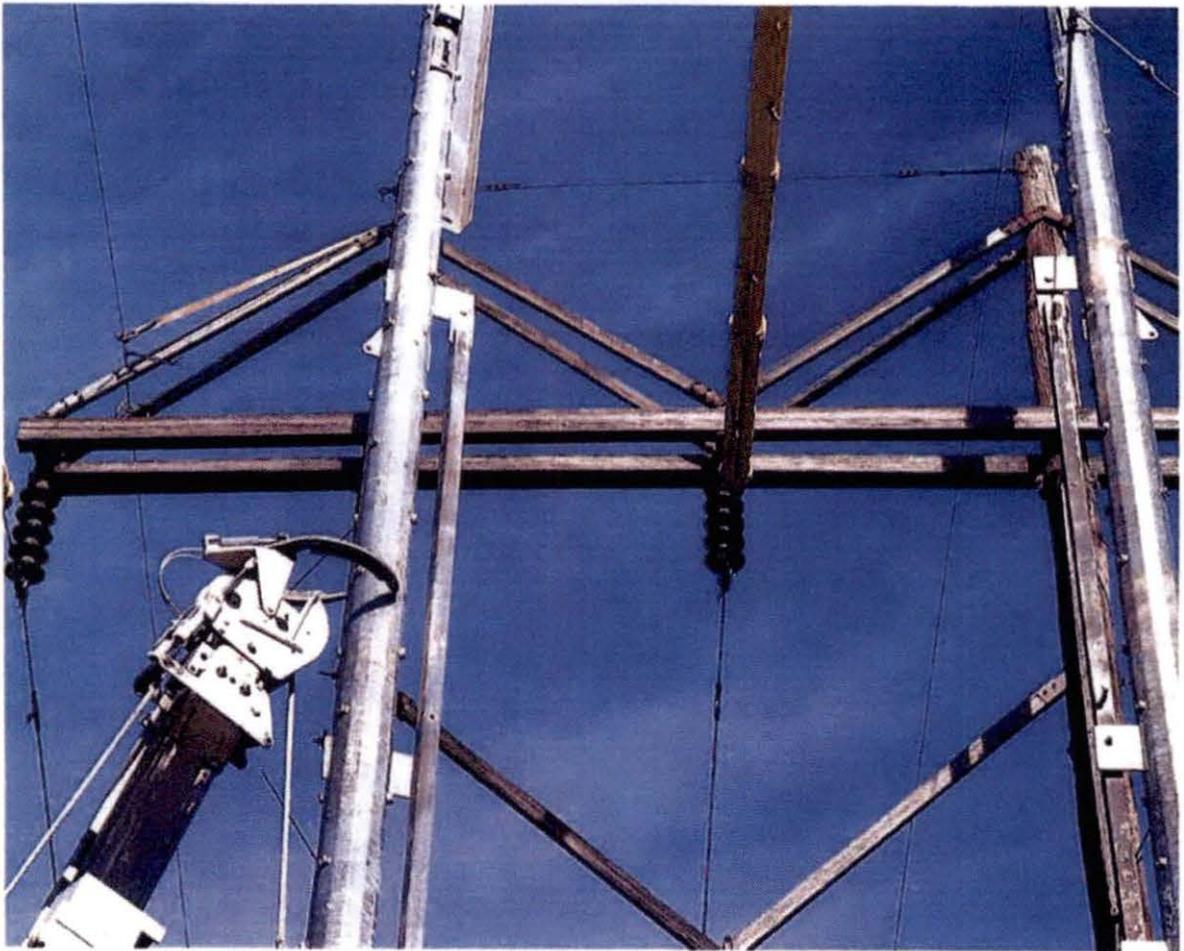


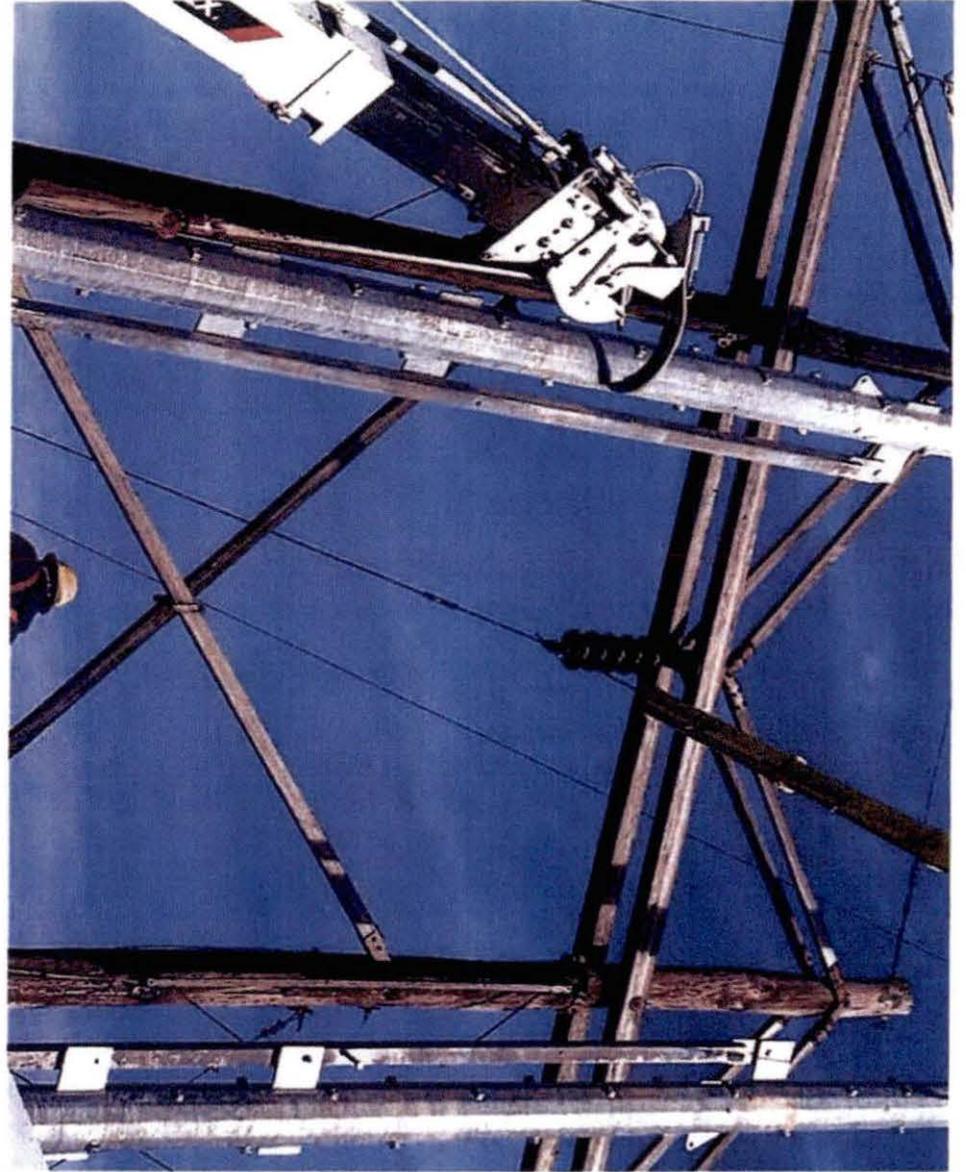
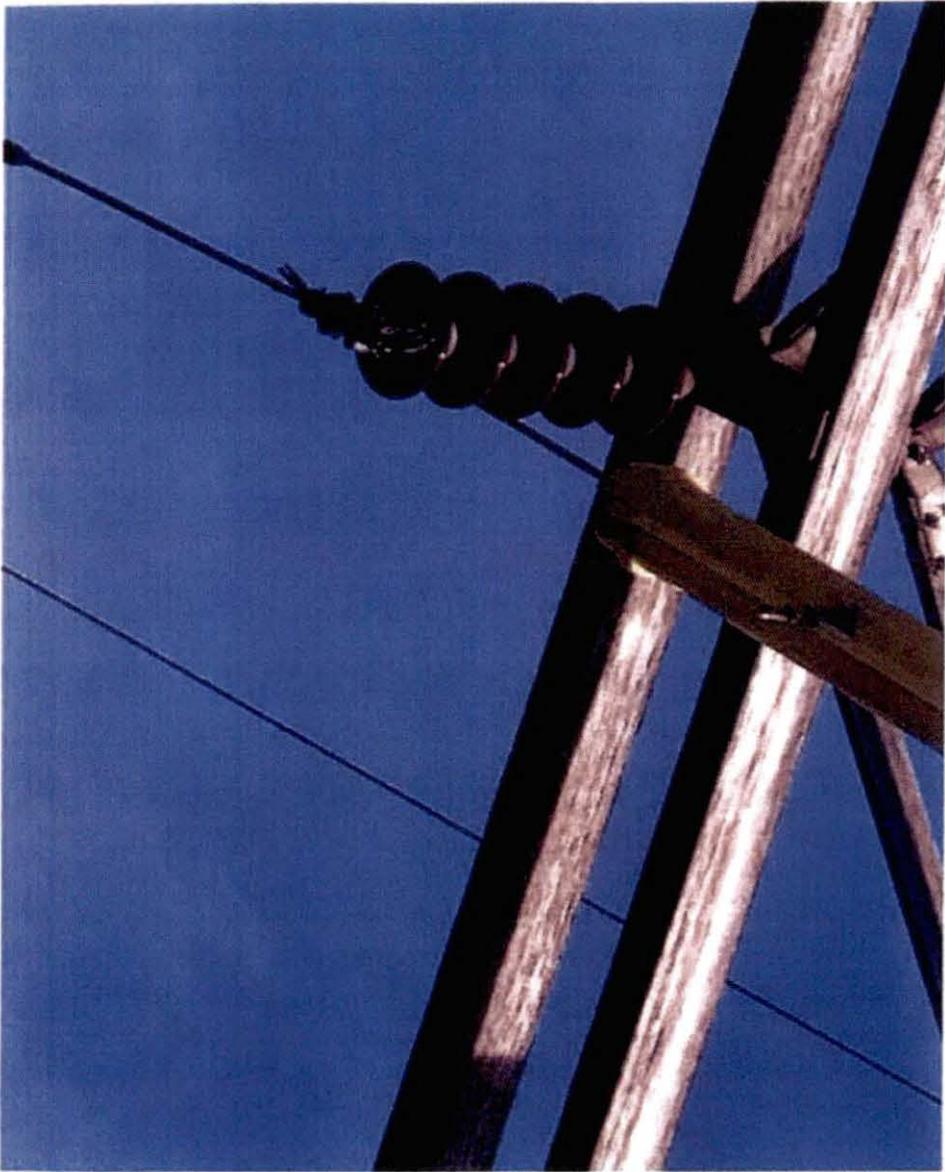


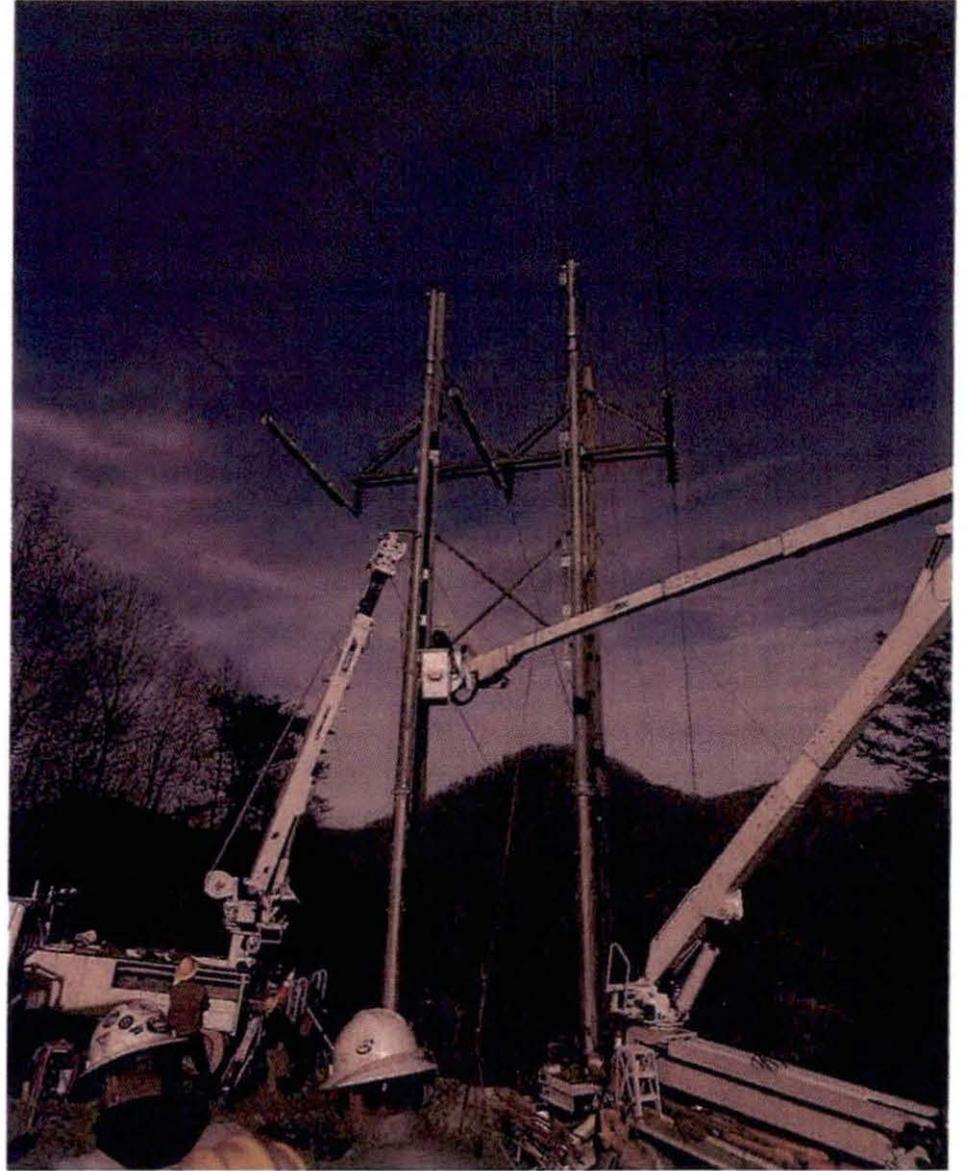






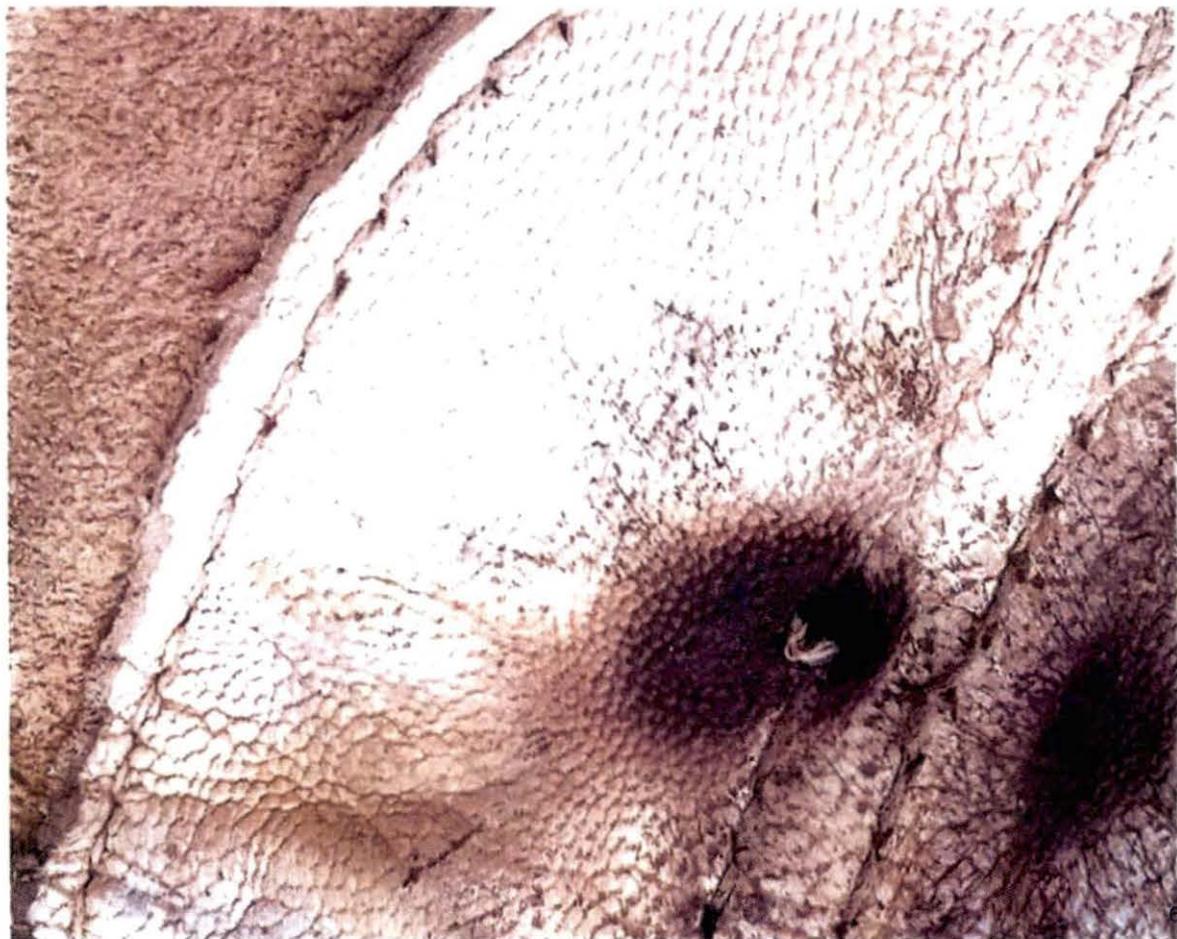










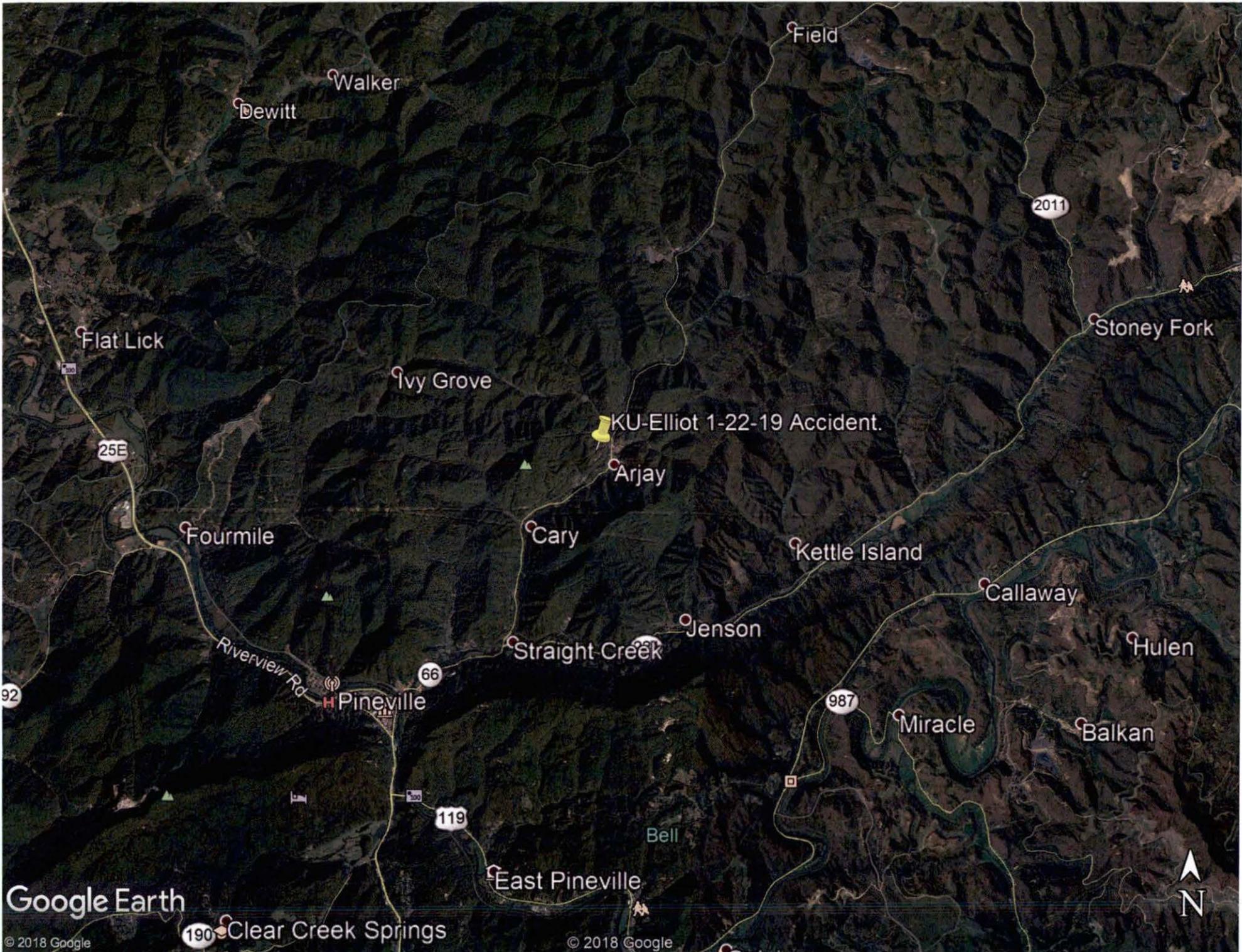






Attachment B

Accident Location Map



Google Earth

© 2018 Google

© 2018 Google

Attachment C

Accident Notification Information

From: [PSC - Utility Electric Notifications](#)
To: [EEC PSC Electric Notifications](#)
Subject: FW: KU Transmission Circuit Accident / Pineville Area. (Contractor)
Date: Tuesday, January 22, 2019 3:20:39 PM

From: Kingsolver, Steve R (PSC)
Sent: Tuesday, January 22, 2019 3:20:34 PM (UTC-05:00) Eastern Time (US & Canada)
To: PSC - Utility Electric Notifications
Subject: KU Transmission Circuit Accident / Pineville Area. (Contractor)

I received a call from Keith McBride, KU/LG&E Accident investigator, at approximately 2:45 PM on 1-22-19 reporting a transmission circuit accident in the Pineville service area. The first information from the site says a contract crew was changing a transmission pole and the pole made contact with the energized conductor (69kV). A contract employee was shocked and burned and was flown to the hospital. This is all of the information that McBride had at the time of the reporting.

I will be going to the site on 1-23-19 to meet Keith McBride to gather information on the accident.

A summary report will follow.

Steve Kingsolver

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

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P. O. Box 32010
Louisville, KY 40232-2010