

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

KENERGY CORP.)	
_____)	
ALLEGED FAILURE TO COMPLY)	CASE NO. 2016-00324
WITH KRS 278.042)	

ORDER

Kenergy Corp. (“Kenergy”) is a consumer-owned rural electric cooperative corporation engaged in the distribution and sale of electric energy to the public for compensation and is a utility subject to Commission jurisdiction.

KRS 278.042 requires the Commission to 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 the most recent edition of the National Electrical Safety Code (“NESC”).

KRS 278.030 requires every utility to furnish adequate, efficient and reasonable service. KRS 278.260 permits the Commission, upon its own motion, to investigate any act or practice of a utility that affects or is related to the service of a utility. KRS 278.280(1) further permits the Commission, after conducting such investigation and finding that a practice is unreasonable, unsafe, improper, or inadequate, to determine the reasonable, safe, proper, or adequate practice or methods to be observed and to fix the same by Order.

Pursuant to KRS 278.280(2), which directs the Commission to prescribe rules and regulations for the performance of service by utilities, the Commission has

promulgated 807 KAR 5:006, Section 25, which requires all utilities to adopt and execute a safety program. 807 KAR 5:006, Section 25(1), requires each utility to establish a safety manual with written guidelines for safe working practices and procedures to be followed by utility employees. Here, Kenergy has adopted the Kenergy Safety Manual.

Commission Staff submitted to the Commission an Accident Investigation Staff Report dated November 14, 2014 ("Staff Report"), attached hereto as the Appendix. The Staff Report alleges that on October 7, 2014, a Kenergy crew was installing new triplex service on an overhead distribution line that would supply electric power to a pole at 9674 US 60, Sturgis, Crittenden County, Kentucky. Rhyan Dickerson, a Kenergy apprentice lineman, was connecting the triplex service neutral to the transformer that would serve the new service when he made contact with a transformer riser with the back of his left hand at the same time his right hand was in contact with a secondary neutral at ground potential. Mr. Dickerson was not wearing rubber gloves at the time of the incident. The contact created an arc that rendered Mr. Dickerson unconscious and inflicted burns to his hands. Mr. Dickerson was admitted to the hospital and discharged after three days.

According to Kenergy, the incident occurred at approximately 11:22 a.m. (Central) on October 7, 2014, and was immediately discovered by the utility. Commission Staff received notice of the incident at approximately 12:38 p.m. (Eastern) the same day and investigated the incident the morning of October 9, 2014. Kenergy submitted a written summary report ("Kenergy Summary Report") (Attachment A to the Staff Report) on October 14, 2014, in accordance with 807 KAR 5:006, Section 27(2).

In the Kenergy Summary Report, Kenergy identified items of note regarding the incident, including Mr. Dickerson's removing his rubber gloves while performing work in the bucket truck, how the placement of the bucket truck affected the angle at which Mr. Dickerson performed the work, and the failure to properly ground or barricade the bucket truck.

Thereafter, the Commission Staff investigator prepared the Staff Report, which opined that Mr. Dickerson and the crew leader, Terry Frederick, did not meet certain requirements of the NESC and Kenergy Safety Manual.¹ The Staff Report further states:

The fact that the victim [Mr. Dickerson] removed his rubber gloves is a major contributing factor to this accident but during this investigation several contributing factors came to mind. It appears that the positioning of the bucket truck could have been better and this could have kept the victim out of the vicinity of the energized transformer riser. The transformer and riser could have been de-energized during the installation of the triplex service. There was no rubber cover-up material on the conductors at the time of this accident.

The victim is an apprentice lineman which means he is not a fully trained lineman. It appears that the first-level supervisor in charge of this job site did not fulfill his obligation in this situation. The supervisor in charge of this job site was Terry Frederick, a crew leader for Kenergy. This was not a contributing factor to this accident but during this investigation it was discovered that the vehicle ground had been pulled off the reel but was not connected to a grounding point. The vehicle the victim was working out of,

¹ Staff Report at 2-3.

at the time of this accident, was not grounded or barricaded and treated as energized.²

Based on Commission Staff's investigation of the incident as set forth in the Staff Report and the information provided in the Kenergy Summary Report, the Commission Staff alleges that Kenergy has violated multiple provisions of the NESC, the Kenergy Safety Manual, and KRS 278.042, which requires an electric utility to construct and maintain 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. In the Staff Report, Commission Staff alleges that Kenergy violated multiple provisions of the NESC and the Kenergy Safety Manual. The NESC and Kenergy Safety Manual alleged violations can be structured into three areas:

1. Failure to observe proper safety procedures on the job site to ensure the safety of all individuals involved.
 - a. NESC, Part 4, Section 42, Rule 420.C.4 – Work Rules for the Operation of Electric Supply and Communications Lines and Equipment – General Rules for Employees – General – Safeguarding Oneself and Others – Employees who work on or in the vicinity of energized lines shall consider all of the effects of their actions, taking into account their own safety as well as the safety of other employees on the job site, or on some other part of the affected electric system, the property of others, and the public in general.
 - b. NESC, Part 4, Section 42, Rule 421.A.1 – Work Rules for the Operation of Electric Supply and Communications Lines and Equipment – General Rules for Employees – General Operating Routines – Duties of a First-level Supervisor or Person in Charge. This individual shall

² *Id.*

adopt such precautions as are within the individual's authority to prevent accidents.

- c. NESC, Part 4, Section 42, Rule 421.A.2 – Work Rules for the Operation of Electric Supply and Communications Lines and Equipment – General Rules for Employees – General Operating Routines – Duties of a First-level Supervisor or Person in Charge. This individual shall see that the safety rules and operating procedures are observed by the employees under the direction of this individual.
 - d. Kenergy Safety Manual, Section 1, Rule 106.b. – General Rules – Taking Chances – Employees shall always try to place themselves in a safe and secure position.
 - e. Kenergy Safety Manual, Section 3, Rule 312.v. – Vehicle Operations – Aerial Devices – Aerial basket vehicles working adjacent to energized conductors or equipment shall be properly grounded or barricaded and treated as energized.
2. Failure to wear proper personal protective equipment (“PPE”).
- a. NESC, Part 4, Section 42, Rule 420.H – Work Rules for the Operation of Electric Supply and Communications Lines and Equipment – General Rules for Employees – General – 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.
 - b. Kenergy Safety Manual, Section 1, Rule 114.d. – General Rules – Clothing – Each employee shall wear gloves suitable for the work.
 - c. Kenergy Safety Manual, Section 6, Rule 602.c. – Overhead Distribution and Transmission – Flexible Protective Equipment (Rubber, Synthetics, ETC.) – When work is to be done on or near energized lines, all energized and grounded conductors or guy wires within reach of any part of the body shall be covered with rubber protective equipment except that part of the conductor on which the employee is to work.

- d. Kenergy Safety Manual, Section 6, Rule 604.c. – Overhead Distribution and Transmission – Use and Care of Rubber Gloves – Rubber gloves are recommended to be worn while working on any pole or other structure on which energized lines or equipment are located, on which lines and equipment that could be energized are located, or that are located close to energized lines or equipment where an employee could make contact. The rubber gloves should be put on before the employee ascends a pole or structure or raises an aerial device off the ground or device's cradle. Furthermore, employees should not remove the gloves until they have descended the pole or structure or returned the aerial device to the ground or cradle. As a minimum requirement, gloves should be put on before the employee comes within falling or reaching distance (in any event not less than 5 feet) of unprotected energized circuits or apparatus or those that may become energized, and they shall not be removed until the employee is entirely out of falling or reaching distance of such circuits or apparatus. Employees shall refer to Utility policy regarding additional rubber glove requirements.
- e. Kenergy Safety Manual Safety Rule Addendum, Section C, Rule 1.d – Protective Apparel – Rubber Gloves and Rubber Sleeves – Addendum to 604(c): When working on lines or equipment energized above 600 volts from an aerial device, rubber gloves and sleeves shall be worn from cradle to cradle.

3. Failure to observe the required minimum approach distance ("MAD")

to energized lines or parts without appropriate protective measures.

- a. NESC, Part 4, Section 44, Rule 441.A.1. – Work Rules for the Operation of Electric Supply and Communications Lines and Equipment – Additional Rules for Supply Employees – Energized Conductors or Parts – Employees shall not approach or bring any conductive object within the minimum approach distance listed in Table 441-1 or Table 441-4 or distances as determined by an engineering analysis to exposed parts unless one of the following is met: a. The line or part is de-energized and grounded per Rule 444D; 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 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; d. The employee is performing barehand live-line work according to Rule 446.

- b. NESC, Part 4, Section 44, Rule 441.A.1 – Table 441-1 – AC Live Work Minimum Approach – For 7.2 voltage in kilovolts for phase to ground is two feet, two inches.
- c. Kenergy Safety Manual, Section 6, Rule 601.e. – Overhead Distribution and Transmission – Working On or Near Exposed Energized Lines and Equipment – No employee may approach or take any conductive object without an insulating handle closer to exposed energized parts than the minimum approach distances set forth in Table 6.1 through 6.5 unless the employee is insulated from the energized part or the energized part is insulated from the employee and any other conductive object at a different potential, or the employee is insulated from any other conductive object, as during live-line bare-hand work.
- d. Kenergy Safety Manual, Table 6.1 – AC Live-Line Work Minimum Approach Distance – For 7.2 voltage in kilovolts for phase to ground is two feet, two inches.

Based on its review of the Staff Report and the Kenergy Summary Report, and being otherwise sufficiently advised, the Commission finds that *prima facie* evidence exists that Kenergy has failed to comply with KRS 278.042 and the most recent edition of NESC, and the Kenergy Safety Manual. 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 Kenergy's practices related to the construction, installation and repair of electric facilities.

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

1. Kenergy 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. Kenergy shall appear on Tuesday, November 29, 2016, at 9:00 a.m. Eastern Standard 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 violations of KRS 278.042, the most recent edition of NESC, and the Kenergy Safety Manual, and showing cause why it should not be subject to the penalties prescribed in KRS 278.990(1) for these alleged violations.

3. The November 29, 2016 hearing shall be recorded by videotape only.

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

5. At the scheduled hearing in this matter, Kenergy 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.

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

By the Commission

ENTERED
SEP 13 2016
KENTUCKY PUBLIC
SERVICE COMMISSION

ATTEST:


Executive Director

Case No. 2016-00324

APPENDIX

APPENDIX TO AN ORDER OF THE KENTUCKY PUBLIC SERVICE
COMMISSION IN CASE NO. 2016-00324 DATED **SEP 13 2016**



Steven L. Beshear
Governor

Leonard K. Peters
Secretary
Energy and Environment Cabinet

Commonwealth of Kentucky
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David L. Armstrong
Chairman

James W. Gardner
Vice Chairman

Linda Breathitt
Commissioner

ACCIDENT INVESTIGATION STAFF REPORT

Report Date: November 14, 2014

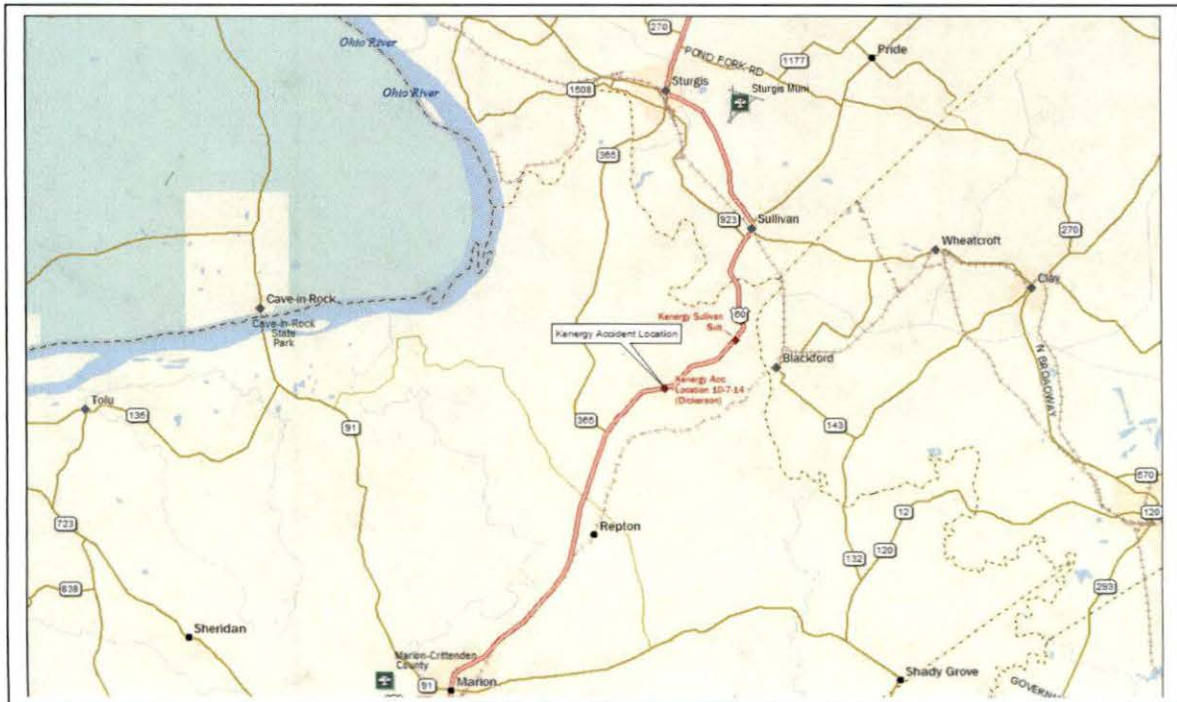
Accident Date: October 7, 2014

Serving Utility: Kenergy Corp.

Accident Location: 9674 Highway US 60, Sturgis,
Crittenden County, Kentucky

Accident Victim: Rhyan Dickerson

PSC Investigator: Steve Kingsolver





Kentucky Public Service Commission

Electric Utility Personal Injury Incident Report

Utility: Kenergy Corp
(Kenergy)

Reported By: Bobby Hayden
Operational Service Manager, Kenergy

Incident Occurred: Approximately 11:22 AM (CT), October 7, 2014

Utility Discovered: Approximately 11:29 AM (CT), October 7, 2014

PSC Notified: Approximately 12:38 PM (ET), October 7, 2014

Summary Report Received: October 14, 2014

PSC On-Site Investigation: Approximately 10:00 AM (CT), October 9, 2014

Incident Description:

This Accident took place on the Kenergy Distribution System. This accident involved an employee of Kenergy, Rhyan Dickerson, an apprentice lineman. The victim, Rhyan Dickerson, was working as a member of a 4-man crew that was assigned to install and energize a #2 triplex service that would serve a new meter pole. The victim was working in a bucket truck and had pulled up and dead ended the triplex service. At the time of this accident the victim was in the process of connecting the new triplex service neutral to the secondary neutral lug on the transformer that would be serving this service. The victim did have on his rubber gloves and sleeves during the process of pulling up the new triplex service but sometime during the process of hooking up the new service he removed his rubber gloves. After removing his rubber gloves, the victim made contact with the transformer riser that was energized at approximately 7200 volts with the back of his left hand at the same time his right hand was in contact with the secondary neutral at ground potential. The victim was unconscious and slumped down in the bucket after making contact with the energized riser. The other crew members lowered the bucket to the ground and removed the victim from the bucket and layed him on the ground. After assessing the victim, the crew members performed cardiopulmonary resuscitation (CPR) and used an automated external defibrillator (AED) to revive the victim. When the ambulance arrived the victim was somewhat coherent. The victim was taken by ambulance to the local hospital and later transferred to Vanderbilt Burn Unit where he was admitted. The victim received burns to both hands as a result of this accident.

The fact that the victim removed his rubber gloves is a major contributing factor to this accident but during this investigation several contributing factors came to mind. It appears that the positioning of the bucket truck could have been better and this could have kept the victim out of the vicinity of the energized transformer riser. The transformer and riser could have been de-energized during the installation of the triplex service. There was no rubber cover-up material on the conductors at the time of this accident.

The victim is an apprentice lineman which means he is not a fully trained lineman. It appears that the first-level supervisor in charge of this job site did not fulfill his obligation in this situation. The

supervisor in charge of this job site was Terry Frederick, a crew leader for Kenergy. This was not a contributing factor to this accident but during this investigation it was discovered that the vehicle ground had been pulled off the reel but was not connected to a grounding point. The vehicle the victim was working out of, at the time of this accident, was not grounded or barricaded and treated as energized.

Victim:	Name:	Position:	Employer:
	Rhyan Dickerson	Apprentice Lineman	Kenergy

Witnesses:	Name:	Position:	Employer:
	Terry Frederick	Crew Leader	Kenergy
	Eric Winebarger	Lineman	Kenergy
	Kevin Board	Crew Leader	Kenergy

NOTE: Statements from the 3 witnesses are part of the utility summary report

Information From:	Name:	Position:	Employer:
	Bobby Hayden	Operational Service Manager	Kenergy
	Casey Baker	Dist. Operations Mgr. Marion	Kenergy
	Garret Addington	Risk Coordinator (Safety)	Kenergy
	Ken Stock	VP of Operations	Kenergy
	Greg Morgan	Safety and Training Director	Big Rivers Electric

Temp & Weather: Overcast and approximately 65°

FINDINGS:

It is the investigator's opinion that the crew involved in this accident, employees of Kenergy, did not meet the following requirements set forth in the National Electrical Safety Code (NESC), Kenergy's Safety Manual and Safety Rule Addendum.

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.

2012 National Electric Safety Code:

See 2012 NESC Code to view each rule in its entirety.

#1:

National Electrical Safety Code (P-269)

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

4. Employees who work on or in the vicinity of energized lines shall consider all of the effects of their actions, taking into account their own safety as well as the safety of other employees on the job site, or on some other part of the affected electric system, the property of others, and the public in general.

#2:

National Electrical Safety Code (P-270)

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.

#3:

National Electrical Safety Code (P-272)

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:

1. Adopt such precautions as are within the individual's authority to prevent accidents.

#4:

National Electrical Safety Code (P-272)

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.

#5:

National Electrical Safety Code (P-280)

Part4: Work Rules

Section 44: Additional rules for supply employees

441: Energized conductors and parts

A: Minimum approach distance to energized lines or parts

1: General

Employees shall not approach or bring conductive objects within the minimum approach distance listed in Table 441-1 or Table 441-4 or distances as determined by an engineering analysis to exposed parts unless one of the following is met:

(P-280 for complete rule)

Table 441-1 AC live work minimum approach distance

7.2kV-(Working Voltage)

0.750 Volts to 15 kV – Phase to Ground: 2' 2"

(P-284 Table 441-1)

807 KAR 5:006. General rules.

RELATES TO: KRS 65.810, 74, 96.934, 220.510, 278, 49 C.F.R. Part 192, 49 U.S.C. 60105

STATUTORY AUTHORITY: KRS 278.230, 278.280(2), 49 C.F.R. 192

NECESSITY, FUNCTION, AND CONFORMITY: KRS 278.230(3) requires every utility to file with the commission reports, schedules, and other information that the commission requires. KRS 278.280(2) requires the commission to promulgate an administrative regulation for the performance of a service or the furnishing of a commodity by a utility. This administrative regulation establishes requirements that apply to electric, gas, water, sewage, and telephone utilities.

807 KAR 5:006 General Rules

Section 25: Safety Program

Section 25: Safety Program: Each utility shall adopt and execute a safety program, appropriate to the size and type of its operations. At a minimum, the safety program shall:

- (1) Establish a safety manual with written guidelines for safe working practices and procedures to be followed by utility employees.
- (2) Instruct employees in safe methods of performing their work. For electric utilities, this is to include the standards established in 807 KAR 5:041, Section 3.
- (3) Instruct employees who, in the course of their work, are subject to the hazard of electrical shock, asphyxiation or drowning, in accepted methods of artificial respiration.

Kenergy Safety Manual: (APPA Safety Manual, 13th Edition with addendums)

(October 7, 2014 Accident) (Victim: Dickerson)

See Kenergy Safety Manual to view each rule in its entirety.

#1: Kenergy Safety Manual: (P-25)

Section 1: General Rules

106: Taking Chances

b) Employees shall always try to place themselves in a safe and secure position.

#2: Kenergy Safety Manual: (P-30)

Section 1: General Rules

114: Clothing

d) Each employee shall wear gloves suitable for the work.

#3: Kenergy Safety Manual: (P-80)

Section 3: Vehicle Operations

312: Aerial Devices

v) Aerial basket vehicles working adjacent to energized conductors or equipment shall be properly grounded or barricaded and treated as energized.

#4: Kenergy Safety Manual: (P-90)

Section 6: Overhead Distribution and Transmission

601: Working On or Near Exposed Energized Lines and Equipment

e) No employee may approach or take any conductive object without an insulating handle closer to exposed energized parts than the minimum approach distances set forth in Table 6.1 through 6.5 unless the employee is insulated from the energized part or the energized part is insulated from the employee and any other conductive object at a different potential, or the employee is insulated from any other conductive object, as during live-line bare-hand work.

Table 6.1 AC Live-Line Work Minimum Approach Distance

7.2kV-(Working Voltage)

0.750 Volts to 15 kV – Phase to Ground: 2' 2"

(P-91 Table 6.1)

#5: Kenergy Safety Manual: (P-97)

Section 6: Overhead Distribution and Transmission

602: Flexible Protective Equipment (Rubber, Synthetics, ETC.)

c): When work is to be done on or near energized lines, all energized and grounded conductors or guy wires within reach of any part of the body shall be covered with rubber protective equipment except that part of the conductor on which the employee is to work.

#6: Kenergy Safety Manual: (P-103)

Section 6: Overhead Distribution and Transmission

604: Use and Care of Rubber Gloves

c) Rubber gloves are recommended to be worn while working on any pole or other structure on which energized lines or equipment are located, on which lines and equipment that could be energized are located, or that are located close to energized lines or equipment where an employee could make

contact. The rubber gloves should be put on before the employee ascends a pole or structure or raises an aerial device off the ground or device's cradle. Furthermore, employees should not remove the gloves until they have descended the pole or structure or returned the aerial device to the ground of cradle. As a minimum requirement, gloves should be put on before the employee comes within falling or reaching distance (in any event not less than 5 feet) of unprotected energized circuits or apparatus or those that may become energized, and they shall not be removed until the employee is entirely out of falling or reaching distance of such circuits or apparatus. Employees shall refer to Utility policy regarding additional rubber glove requirements.

Kenergy has a document described as (Safety Rule Addendums). This document alters the requirements set in the adopted APPA Safety Manual. The following is from this document:

Section C: Protective Apparel

1) Rubber Gloves and Rubber Sleeves

d) Addendum to 604 (c): When working on lines or equipment energized above 600 volts from an aerial device, rubber gloves and sleeves shall be worn from cradle to cradle.

See Attachment (A) for complete Safety Rule Addendums.

Investigated By:	Name:	Company:
	Steve Kingsolver	KPSC

Signed: 

Date: 11-14-14

- Attachments:**
- A. Kenergy Summary Report
 - B. KPSC Accident Notification from Kenergy
 - C. KPSC Photographs of Accident Site
 - D. KPSC Map of Accident Site

Attachment A

Kenergy Summary Report



P.O. Box 18 • 6402 Old Corydon Rd
Henderson, Kentucky 42419-0018
(800) 844-4832

October 13, 2014

RECEIVED

OCT 14 2014

PUBLIC SERVICE
COMMISSION

Mr. Steve Kingsolver
Public Service Commission of Kentucky
211 Sower Boulevard
Frankfort, KY 40602

Subject: Summary Report for Employee Contact Incident October 7, 2014

Dear Mr. Kingsolver,

The following is a summary report regarding the employee contact incident that occurred on a Kenergy three phase line approximately 2.4 miles south of Kenergy's Sullivan substation and approximately 9 miles north of the city of Marion, Kentucky. The closest street address to this location is 9674 US Highway 60, Sturgis, KY. Kenergy provides service to this location through Kenergy's Sullivan substation on the Kentucky Stone feeder.

Approximate Sequence of Events of Employee Contact Incident October 7, 2014

- 11:22 AM Kenergy employee Rhyan Dickerson, a third year apprentice, makes contact with a stinger wire on the KY Stone feeder fed from the Sullivan substation.
- 11:23 AM Kenergy employee Kevin Board calls 911.
- 11:24 AM Kenergy crew Terry Frederick, Eric Winebarger, and Kevin Board pull Rhyan Dickerson from the bucket and begin CPR.
- 11:26 AM Ambulance is dispatched.
- 11:27 AM Ambulance is enroute.
- 11:29 AM Kevin Board contact Kenergy Marion District Manager Casey Baker who then notified Kenergy System Control and Kenergy VP of Operations, Ken Stock
- 11:38 AM Ambulance arrives on scene.
- 11:39 AM EMT's assume care for patient, Rhyan Dickerson.



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Henderson, Kentucky 42419-0018
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Outage Management System

A screenshot from Kenergy's OMS (Outage Management System) is included as an attachment to this report. The screenshot gives a graphical representation of the Kenergy system to the Kenergy System Controller.

Description of Incident

Kenergy normally works in three man crews but due to fall break and vacations, there was a four man crew working at the time of the incident. The crew consisted of Terry Frederick (crew leader), Kevin Board (crew leader), Erik Winebarger (journeyman), and Rhyan Dickerson (3rd year apprentice). Terry Frederick was acting crew leader for this work order.

The crew was at the location to connect a service to a previously set pole and were in the process of connecting the #2 overhead triplex conductor to an existing C1 primary pole with a 15KVA CSP transformer that also fed an existing triplex running to a service on the west side of US Highway 60.

Rhyan Dickerson was working out of a 55 foot Terex HiRanger bucket truck with Kenergy fleet number 512. The triplex had been pulled up on a handline and Rhyan had deadended it in a wedge clamp. Kevin noted that the triplex was too low and the so the men on the ground pulled on the handline while Rhyan redeadended the triplex. It was noted by the employees on the ground that Rhyan had his rubber gloves and sleeves on at the time.

The ground personnel went on to other duties as Rhyan proceeded to make up the triplex at the transformer. At some point Rhyan must have removed his rubber gloves while making a neutral termination at a terminal pin (pigtail) at the X2 bushing of the transformer. Apparently Rhyan, in attempting to use a compression tool to squeeze the #2 neutral into a connector already in place in the X2 (center, secondary) bushing of the 15KVA transformer, separated the handles of the tool far enough to make contact with the primary stinger of the transformer and the secondary neutral which was at ground potential.

Each witness reported hearing an electric arc and seeing a flash as Rhyan went limp in the bucket. Terry went to the controls and lowered the bucket to the back of unit #512. Kevin used his cell phone to call 911.

Erick, with the help of Kevin, pulled Rhyan (a 320 pound man) from the bucket using the bucket tilt method of bucket rescue. The men had difficulty getting the lanyard to snap free of the bucket so Kevin cut the lanyard allowing Rhyan to be removed from the bucket. Rhyan was placed on his back in the gravel, being careful not to injure his head.

Erick checked for a pulse and finding none, started CPR. Kevin retrieved the AED from his pickup and Terry assisted in connecting the electrodes of the AED to Rhyan's chest while CPR was continued. The employees noted that Rhyan's color had turned blue as they performed CPR. The AED advised a shock which Terry administered when everyone was clear. The AED advised deeper compressions and a second shock. Then the AED advised continuing CPR and finally a third shock was advised. After the third shock, the witnesses noted Rhyan taking a breath and moving his arm. The AED advised continuing CPR.

The ambulance then arrived and found Rhyan somewhat coherent. The ambulance crew changed out the Kenergy AED with their unit and loaded Rhyan into the ambulance. Kevin Board rode with Rhyan in the ambulance to the emergency room.

Rhyan was later transported to the Vanderbilt burn unit in Nashville, TN. Rhyan was discharged on Friday October 10th, but was readmitted for surgery to his hands today, Monday October 13, 2014.

System / Location Description

The incident occurred at system location 425-42-pole 46. This location is fed from the Kentucky Stone feeder, feeder 3, of the Sullivan substation. The mainline wire size is 3 phase 3/0 ACSR with 1/0 ACSR neutral. The next upstream protective device is the KY Stone feeder or Sullivan Feeder 3 substation breaker. This device did not operate for this event. System diagrams, substation breaker data, transformer data, and pole data are included in the appendix of this report. This pole was last inspected January 31, 2014.

Kenergy Incident Investigation

During Kenergy's incident investigation, a few noteworthy items were discovered.

Rhyan Dickerson had removed his rubber gloves to perform work while up in the bucket. Kenergy addendum to the APPA manual for section 604c requires that all Kenergy employees use rubber gloves and sleeves cradle to cradle.

The vehicle ground for truck #512 was disconnected and laying on the ground. The ground appeared to have been pulled out but never connected. Per Kenergy policy in the APPA manual section 312v, aerial basket vehicles working adjacent to energized conductors or equipment shall be properly grounded or barricaded and treated as energized.

It was also noted that no cover up was used. The utilization of cover up is situational dependent but certainly could have helped protect the employee in this situation.



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(800) 844-4832

It was observed that no visible open point was utilized. The switch of the CSP transformer is an open point but is not a visible open point. The better choice in this situation would have been to remove the stinger wire from the main line to create a visible open point.

Another item of note was the placement of the bucket truck. If a different location had been selected for the bucket truck, the employee in the bucket would have had a different angle when making the connection to the secondary of the transformer and would not have been in such close proximity to the main line stinger.

The last dielectric test on bucket truck #512 was conducted on July 7, 2014. The test report is included as an attachment to this report.

PSC Requested Items

1. 7-Day Summary Report – this report
2. Utility photographs – all photographs are included in the Rhyan Dickerson Incident Addendum provided by Greg Morgan, CLCP, Big Rivers Electric
3. Dielectric Testing Data of Vehicle – attached in appendix to this report
4. Facility Map of Area Involved – attached in appendix to this report
5. Copy of Job Briefing Before Work Began – included in the Rhyan Dickerson Incident Addendum provided by Greg Morgan, CLCP, Big Rivers Electric
6. System Protective Devices – attached in appendix to this report
7. Construction Dates of Involved Facilities – attached in appendix to this report
8. Witness Statements – attached in appendix to this report
9. Victim Statement – To follow this report
10. Safety Manual with Amendments – attached in appendix to this report

Appendix Items

1. Rhyan Dickerson Incident Addendum by Greg Morgan, CLCP .
2. Kenergy Report of Injury, Illness, or Near Miss
3. Kenergy New Service Work Order
4. Kenergy Accident Investigation Team Report
5. Equipment Data
6. Vehicle Data
7. Witness Statements



P.O. Box 18 • 6402 Old Corydon Rd.
Henderson, Kentucky 42419-0018
(800) 844-4832

Kenergy is deeply saddened by this tragic event but also grateful that the crew was able to save Mr. Dickerson's life. Disciplinary action for this incident is still in a "to be determined" status. Items being considered for Mr. Dickerson and all the crew members are time off without pay, demotion, and possible termination.

Kenergy's Safety Leadership Team will fully evaluate this incident and put in place measures to prevent this type of incident from ever reoccurring on our system. Some items that will be considered are; the involved team members traveling the system and explaining the incident and what went wrong, management reviewing disciplinary actions for when policy and procedures are willfully violated, additional unannounced work inspections, and additional training for all field employees in the areas of vehicle position, grounding, working open point, use of cover up, working cradle to cradle, and supervision of crew members.

The Kenergy management team is dedicated to the safety of our employees, members, and public.

Sincerely,

A handwritten signature in cursive script, appearing to read "Kenneth R. Stock".

Kenneth R. Stock
Vice President, Operations

Victim: Rhyan Dickerson incident addendum

Date of incident: October 7, 2014

Time of incident: Approximately 11:22 AM

Location of incident: US 60 9674 Sturgis, KY.

Incident report prepared by: Greg Morgan, CLCP, Member Systems Safety and Training Director.

As described by the three witnesses:

The four man crew; consisting of Terry Fred, Kevin Board, Erik Winebarger, and Rhyan Dickerson had connected a service to a previously set pole and where in the process of connecting the #2 overhead triplex conductor to an existing C1 primary pole with a 15KVA transformer that fed an existing triplex running to a service on the west side of US 60.

Rhyan was working out of a bucket truck #512, a 55ft. Terex HiRanger. A man on the ground had pulled up the Triplex up on a handline and Rhyan deadended it in a wedge clamp. Kevin noted the triplex was too low and two men on the ground pulled on the handline while Rhyan redeadended the triplex and it was noted by the employees on the ground that Rhyan had his rubber gloves on at that time.

The ground personnel went on to other duties as Rhyan proceeded to make up the triplex at the transformer and at some point removed his rubber gloves while making a neutral termination at a terminal pin (pigtail) at the X2 bushing of the transformer. Apparently Rhyan; in attempting to use a compression tool to squeeze the #2 neutral into a connector already in place in the X2 (center, secondary) bushing of the 15KVA transformer, separated the handles of the tool far enough to make contact with the primary stinger of transformer. Contact was made with the back of his left hand at the same time his right hand was in contact with the secondary neutral at ground potential (See picture #1).

Page 2 - Rhyan Dickerson incident addendum

Each witness reported hearing an electric arc and seeing a flash as Rhyan went limp in the bucket. Terry went to the lower controls and lowered the bucket to the back of the unit #512. (See picture #2). Kevin used his cell phone to call 911.

Erik, with the help of Kevin pulled Rhyan (a 320 pound man) from the bucket. Using the bucket tilt method of bucket rescue; the men had difficulty getting the lanyard snap free from the bucket so Kevin cut the lanyard allowing Rhyan to be removed from the bucket. Rhyan, was placed on his back, in the gravel; being careful not to injure his head.

Erik checked for a pulse and finding none started CPR. Kevin retrieved the AED from his pickup and Terry assisted in connecting the Electrodes of the AED to Rhyan's chest while CPR was continued. The employees noted that Rhyan's color had turned blue as they performed CPR. The machine advised a shock which Terry administered when everyone was clear. The machine advised deeper CPR compressions and later a second shock. Then the machine advised continuing CPR and later advised the rescuers to clear and administer a third shock at which time Rhyan took a breath and moved his arm. The machine advised continuing CPR for a short time.

When the Ambulance arrived from Marion Rhyan was somewhat coherent. The ambulance crew changed the AED out to the one from there unit and loaded Rhyan. Kevin Board rode to the emergency room in the ambulance with Rhyan.

Picture #3: the general location of Rhyan and the CPR.

Picture #4: right hand contact point on the triplex neutral.

Picture #5: left hand contact point at the first loop of the primary stinger.

Picture #6: incident scene

Picture #7: approximately 32 inches between contact point.

Picture #8: the incident scene looking under the 3-phase line from south to north.

Page 3 - Rhyan Dickerson incident addendum

Picture #9: the incident scene looking under the 3-phase line from north to south.

Picture #10: east to west from the new service pole.

Picture #11: lose gloves at the incident scene.

KENERGY CORP

Job Briefing

Date 10-7-14 WO # / JO # 3773

Crew Leader Terry Frederick

Status of Job: Routine Emergency Other

Briefing Type: Tailgate Update Other

Hazards associated with the job: Driving Hazards to the Public

Energized Equipment Falling

Other Hazards STF pulling LSTing

Work Procedures Involved: Flagmen Traffic Control

Road Signs and Cones Other Entities Standard Procedures

Other Procedures Set anchor run #ATP wire ck voltage - set meters

Special Precautions: Other Crews / Workers

Adjacent Equipment / Water-Gas-Sewer-Telephone-TV

Other Precautions

Energy Source Controls: De-energizing Procedure Visible Opening

Testing for Voltage Grounding

Other Controls TRANS

Personal Protective Equipment Requirements: Hard Hat Safety Glasses

Rubber Gloves and Sleeves Cover Up Hearing Protection

Other PPE FALL

Signatures: Crew Leader Terry Frederick

Crew Members John Dick K. Bran
Est. [unclear]



#2





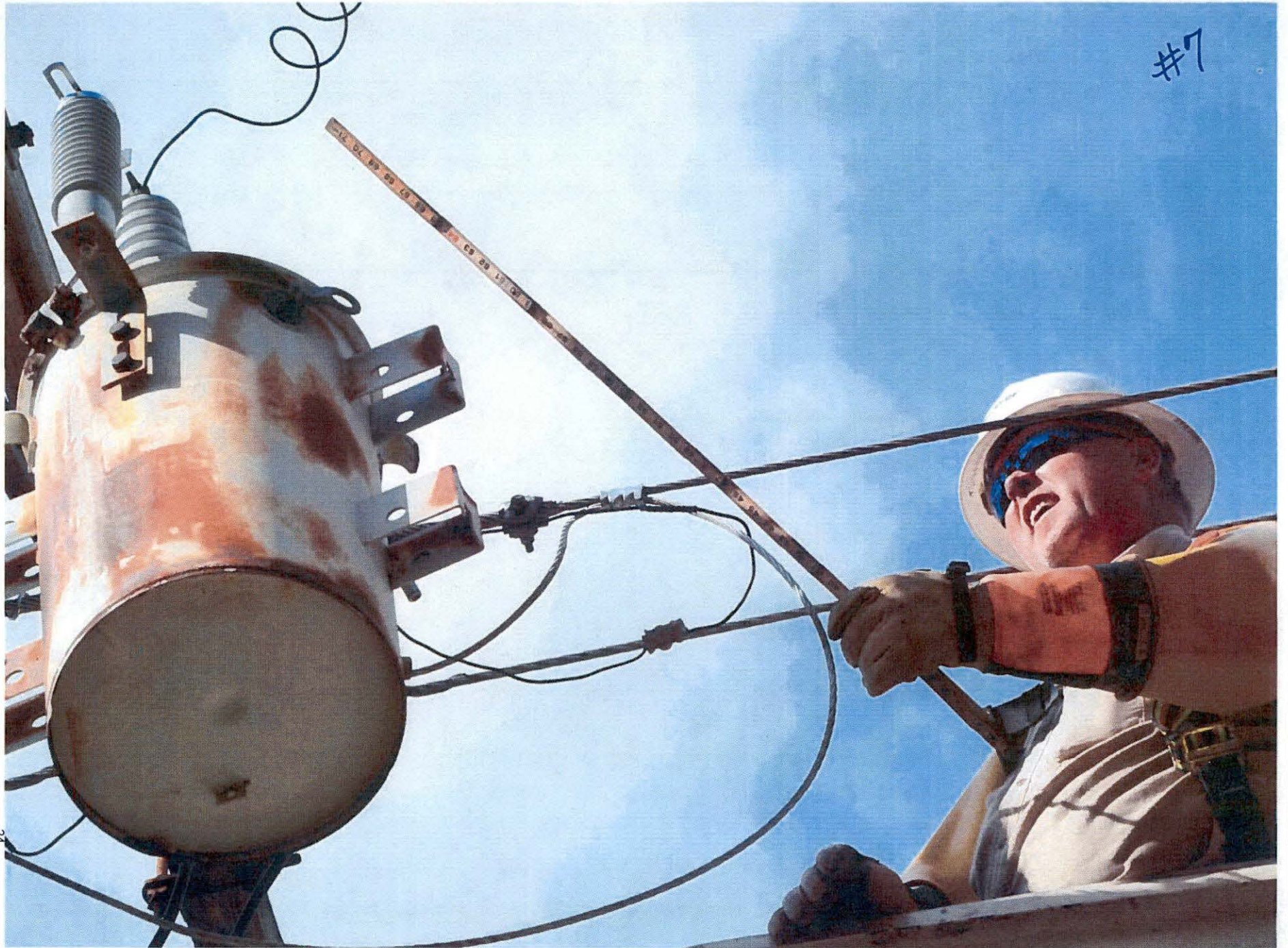




#15



#6



#7

24

48









KENERGY CORP

Report of Injury, Illness, or Near Miss

Employee's Description of Event

- No Medical Treatment Medical Emergency Care Restricted Duty
 Minor Clinic/Hospital First Aid/Minor Illness Lost Work Day
 Near Miss (An unintended, unplanned, or unexpected event that could have, but did not, result in personal injury or property damage.) *No disciplinary action will be taken for reporting Near Miss incidents.*

Employee Name Rhyan DICKERSON Date of Accident 10/07/2014
 Home Address _____ Providence KY _____
(street) (city) (state) (zip)

Male Female Date of Birth 12/28/1991 Home Phone _____
(area code)

Department Const - OPERATIONS Location MARION

Marital Status: Married Unmarried/Single Divorced Separated Unknown No. Dependents _____

Location of Accident (425-42-46) Hwy 60 E STURGIS KY CRITZBONDEN
(street) (city) (state) (county)

Employer's Premises? Yes No Day/Date/Time of Accident 10/7/14 11:23 AM Time Shift Started 7 AM

What Personal Protective Equipment (PPE) was being utilized at time accident occurred? hard hat, glasses, harness, sleeves

Type of Injury: (Check all that apply)

- | | | |
|--|--|--|
| <input type="checkbox"/> Abrasion | <input type="checkbox"/> Cut (laceration) | <input type="checkbox"/> Frostbite/Heat Exhaustion |
| <input type="checkbox"/> Amputation | <input type="checkbox"/> Dislocation | <input type="checkbox"/> Puncture |
| <input type="checkbox"/> Burn (flash) _____ degree | <input checked="" type="checkbox"/> Electrical Shock | <input type="checkbox"/> Rash |
| <input type="checkbox"/> Burn (thermal) _____ degree | <input type="checkbox"/> Foreign Object | <input type="checkbox"/> Rupture |
| <input type="checkbox"/> Contusion | <input type="checkbox"/> Fracture | <input type="checkbox"/> Strain/Sprain |
| <input type="checkbox"/> Other _____ | <input type="checkbox"/> Near Miss -- No Injury | |

Injured Part of Body: (Check all injured parts)

- | | | | | | | | | | | |
|------------------------------------|-----------------------------|------------|-------------------------------------|-------------------------------------|-------|-----------------------------|-----------------------------|--------|--------------------------------------|--------------------------------------|
| Lt <input type="checkbox"/> | Rt <input type="checkbox"/> | Eye | Lt <input type="checkbox"/> | Rt <input type="checkbox"/> | Wrist | Lt <input type="checkbox"/> | Rt <input type="checkbox"/> | Calf | <input type="checkbox"/> Abdomen | <input type="checkbox"/> Mouth |
| <input type="checkbox"/> | <input type="checkbox"/> | Ear | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Hand | <input type="checkbox"/> | <input type="checkbox"/> | Knee | <input type="checkbox"/> Back | <input type="checkbox"/> Neck |
| <input type="checkbox"/> | <input type="checkbox"/> | Collarbone | <input type="checkbox"/> | <input type="checkbox"/> | Thumb | <input type="checkbox"/> | <input type="checkbox"/> | Ankle | <input type="checkbox"/> Chest | <input type="checkbox"/> Nose |
| <input type="checkbox"/> | <input type="checkbox"/> | Shoulder | <input type="checkbox"/> | <input type="checkbox"/> | Hip | <input type="checkbox"/> | <input type="checkbox"/> | Foot | <input type="checkbox"/> Finger | <input type="checkbox"/> Teeth |
| <input type="checkbox"/> | <input type="checkbox"/> | Arm | <input type="checkbox"/> | <input type="checkbox"/> | Leg | <input type="checkbox"/> | <input type="checkbox"/> | Instep | <input type="checkbox"/> Groin | <input type="checkbox"/> Toe |
| <input type="checkbox"/> | <input type="checkbox"/> | Elbow | <input type="checkbox"/> | <input type="checkbox"/> | Thigh | <input type="checkbox"/> | <input type="checkbox"/> | Ribs | <input type="checkbox"/> Head | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | Forearm | | | | | | | Identify which finger or toe injured | |
| <input type="checkbox"/> Near Miss | | | | | | | | | | |

Describe the event, state what was being done and who was doing what. (Including equipment, material and/or chemicals being used.) **If vehicle is involved, complete Report of Motor Vehicle Accident.**

SEE SUMMARY REPORT FOR WITNESS STATEMENTS

Nature of Event:

- | | | | |
|---|---|--|--|
| <input type="checkbox"/> Caught Between | <input checked="" type="checkbox"/> Electrical Contact | <input type="checkbox"/> Fall (Same level) | <input type="checkbox"/> Insect Bite |
| <input type="checkbox"/> Caught In | <input type="checkbox"/> Electrical Flash | <input type="checkbox"/> Falling Object | <input type="checkbox"/> Overexertion |
| <input type="checkbox"/> Caught On | <input type="checkbox"/> Exposure (hot/cold) | <input type="checkbox"/> Foreign Object | <input type="checkbox"/> Slip/Trip |
| <input type="checkbox"/> Cut Out-Type of Pole | <input type="checkbox"/> Exposure to Caustic/
Noxious/Allergic Substance | <input type="checkbox"/> Hand Tool | <input type="checkbox"/> Stepped in Hole |
| <input type="checkbox"/> Cutting Edge | <input type="checkbox"/> Fall (Diff. Level) | <input type="checkbox"/> Hearing Loss | <input type="checkbox"/> Struck Against |
| <input type="checkbox"/> Dog Bite | | <input type="checkbox"/> Hot Surface | <input type="checkbox"/> Struck By |

Name of Witnesses and phone number of witnesses:
T. FREDERICK 635-6897, KBOARD 625-1202, E. WINEBARGER 635-1566
 (Attach witness statements and/or additional comments by injured party, if any)

Employee Signature [Signature] Date 10-8-14

KENERGY CORP

Report of Injury, Illness, or Near Miss

Supervisor's Description of Event

Hospitalized >24 Hours
 Emergency Care
 Treated & Released
 Job Classification When Injured APPRENTICE LINE-MAN
 Is This Employee's Regular Classification? Yes No Date of Hire 12-05-2011
 If Not, What is Regular Job Classification? _____
 Name of Immediate Supervisor TERRY FREDERICK
 Date Supervisor Notified 10/07/14 Time Supervisor Notified 11:29 a.m. p.m.
 Did you Investigate the Event on Site? Yes No

Based upon your investigation, describe the event fully (Describe sequence of events relative to near miss incident, if applicable, and any objects or substances that directly injured the employee or made the employee ill, and name specific activity employee was engaged in, what work process employee was engaged in, list all equipment, safety equipment, materials, or chemicals employee was using/wearing when accident or illness exposure occurred)

see attached report

Crew Briefing Held Yes No Person conducting briefing TERRY FREDERICK
 Names of Persons in attendance R. DICKERSON, K. BOARDS, E. WINEBARGER, T. FREDERICK
 Highlights of Briefing SEE ATTACHED JOB BRIEFING

Based upon discussion with injured employee or employees involved in near miss accident and investigation, recommended preventative measures (List any known safety manual violations.)

Name of Attending Physician DR. ROUSSO / ER DR.
 Address/Phone No. of Attending Physician _____
 Name and Address of Healthcare Facility Crittenden Health Systems
 Nature of Medical Attention Received (Prescription, injection, X-rays, etc.) _____
 Date and Time of Next Scheduled Visit to Physician _____
 Signature of Supervisor at Time of Event Cheryl Baker
 Date and Time 10/08/2014

Human Resources ONLY

Date Lost Time Began _____	Returned to Work _____
Date Restricted Duty Began _____	Returned to Work _____

10/08/2014

Kevin Board called me at 11:29 am said Rhyan made contact with the line and the ambulance was in route. He stated CPR and AED were used. He gave me their location. Immediately, Garrett and I left the Marion office. When I arrived at the scene, Rhyan was in the ambulance. I was allowed by the EMT's to get in the ambulance with him. He was alert and called me by name. He was then transported to Crittenden Health Systems then transported to Vanderbilt Medical Center via Life Flight. I did not remain at the scene. I stayed with Rhyan until he was loaded in the helicopter. Garrett Addington, remained at the scene to oversee the investigation.



Casey Baker

District Manager-Marion Operations

Print Dv/Tm:
10/01/2014 2:20:26 PM

KENERGY CORPORATION
New Service

SERVICE MAP LOCATION: UK 140045369

Account: 5010144600 SO Nbr: 140045369 Service: ELECTRIC SERVICE W/O#: 3773
Customer Nbr: 700120993 Srv Loc Nbr: 50101446 Provider: ELECTRIC SERVICE Cycle: 7

Taken By: sbelt Date Taken: 10/01/2014 Needed On: 10/1/14 12:00:00 AM

Home Phone: (270)965-5860 Ext.
Work Phone: (928)726-4476 Ext.
Mobile Phone: NONE LISTED

DONNA K BYRER ERICKSON

Service Address:
9674 US HWY 60 E
STURGIS, KY 42459

Service Desc:
Subdivision:
Service: Block: Lot:
Line Srv Area: District:
Equip Map Loc: 42542046
Substation: Feeder: Line Sect:
County: City:

Mailing Address:
DONNA K BYRER ERICKSON
10468 US HIGHWAY 60 E
STURGIS KY 42459-5116

Medical Necessity: Outage Priority:
Rate: 1-01 - RESIDENTIAL-Cycle 1

Builder: NONE LISTED
Builder Phone: NONE LISTED

EQUIPMENT TO BE SERVICED

Equipment Type Activity Equipment Nbr Position Nbr Service Map Location

General Comments:

42542022

Service Comments:

Handheld Notes:

Task Remarks:

Work Order #: 3773 Date Line Staked: 9-19-14 Staker: KC Easemnt Needed (Y/N): Y
LX Contract Req (Y/N): Contract Amt: Date Recvd: Work Complt'd by:

Transf Coop#: Transf Mfg #: Transf Size: 15KV
Sub: SULL, 85 Feeder: 3 Phase: A Line Sect #:
Meter Info: Meter 1 Meter 2 Meter 3 Connect Date: Security Lights Installed
Meter #: 9363469 Size: #:
Set Read: 39773 Size: #:
Multiplier: 1 Size: #:

Assessment/Field Comments:

INSP# C12-14055

of Prints: 1

Job Completed: By: TF Date: 10-7-14 On Computer: By: Date:
/pro/rpttemplate/cis/2.29.1/SO_NEW_CONNECT.xml.rpt Service Map Location: UK 140045369 sbelt

10/02/2014 9:19:00 am	WORK ORDER ITEM PICK LIST	Page: 1
-----------------------	------------------------------	---------

Work Order: 3773
 MI Location: 2 - MARION
 Pick List ID: ALL PICK LISTS SUMMARIZED
 Project:

Description: Donna Erickson
 Location: 50101446
 Customer: DONNA K BYRER ERICKSON
 Staked By: PORTER CONRAD
 Map Location: 42542022

Type: New Construction
 Status: Open
 Open Date: 10/01/2014
 Rel By:
 Rel Date: 10/01/2014

Construction

Group	Item	Description	Original Quantity	UOM	Charged		Loc
					All	Quantity	
MAT	10500	ANCHOR, POWER INSTALLED	1.000	EA			
MAT	17000	BOLT,MACHINE	3.000	EA			
MAT	26600	CLEVIS K11	2.000	EA			
MAT	29000	GUY ATTACH.	1.000	EA			
MAT	29750	GUY WIRE	42.000	FT			
MAT	29900	GUY MARKER, 8' YELLOW	1.000	EA			
MAT	37000	ROD ANCHOR	1.000	EA			
MAT	44000	WASHER	3.000	EA			
MAT	47300	2 AL CONCH, TRIPLEX	108.000	FT			
MAT	48200	CU 6 SD	3.000	FT			
Total Quantity For Construction:			165.000				

* Indicates Non-Stock Or Exempt Material Item

Signature: _____ Date: _____

10/02/2014 9:19:00 am

**WORK ORDER
ITEM PICK LIST**

Page: 2

Work Order: 3773

Description: Donna Erickson

Type: New Construction

MI Location: 2 - MARION

Location: 50101446

Status: Open

Pick List ID: ALL PICK LISTS SUMMARIZED

Customer: DONNA K BYRER ERICKSON

Open Date: 10/01/2014

Project:

Staked By: PORTER CONRAD

Rel By:

Map Location: 42542022

Rel Date: 10/01/2014

Assembly Units Summary

Type	Pole	Wire	Neut	Misc	Assembly Unit	Quantity
Construction					2 ALTP	90.000
					E1-2	1.000
					E3-10	1.000
					F6-4	1.000
					K11	2.000

Assets Summary

Type	GL Div	GL Acct	GL Dept	Asset	Group	Quantity
Construction	0	364.0	0	364010 - ANCHORS/GUYS	ALL	2.000
	0	369.0	0	369015 - TRIPLEX ALUM	ALL	90.000



Name: Donna Erickson
 Map Number: 42542022
 Address:
 City:
 County: 12 - Crittenden

RUS Description: 100
 R/W Secured:
 Dir. Code: 02
 Phasing: Single

W.O. #: 3773
 S.O. #: 140045369
 Staked By: Keith Conrad Date: 2014-10-02
 Approved By: Date:
 Fees: 0.0 Inspection: yes

	<p>1 New OH 0 feet Comments: Map Location: 42542046</p> <p>EX (1) 15 KVA CSP EX (1) 45-4 POLES EX (1) K11 EX (1) M2-11 EX (1) VC1-2 EX (1) VG106 N (1) K11</p>	<p>2 New OH 0 feet Comments: Map Location:</p>	<p>2 New OH 90 feet Comments: Map Location: 42542022</p> <p>EX (1) M2-1 N (90) 2 ALTP N (1) E1-2 N (1) E3-10 N (1) F8-4 N (1) K11</p>																						
	<p>UG LOCATES Locate #: Date: Water no Telephone no Gas no CATV no Electric no Sewer</p>	<table border="1"> <thead> <tr> <th colspan="2">Mem. Add</th> <th colspan="2">Mem Remove</th> <th rowspan="2">Meter Type</th> <th rowspan="2">Rel. By</th> <th rowspan="2">Crew #</th> <th rowspan="2">W.O. Date Complete</th> </tr> <tr> <th>OH</th> <th>UG</th> <th>OH</th> <th>UG</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td>3w30a</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Mem. Add		Mem Remove		Meter Type	Rel. By	Crew #	W.O. Date Complete	OH	UG	OH	UG					3w30a						
Mem. Add		Mem Remove		Meter Type	Rel. By	Crew #					W.O. Date Complete														
OH	UG	OH	UG																						
				3w30a																					

Kenergy Corporation

3773

Job Name: Donna Erickson

Staked By: Keith Conrad
Staked Date: 2014-10-02

<u>Unit</u>	<u># New</u>	<u># Retire</u>
2 ALTP	90	0
Consumer	1	0
E1-2	1	0
E3-10	1	0
F6-4	1	0
K11	2	0

Span Units Only

<u>Unit</u>	<u># New</u>	<u># Retire</u>
2 ALTP	90	0

Poles Only

<u>Unit</u>	<u># New</u>	<u># Retire</u>
-------------	--------------	-----------------

Poles and Grounds Only

<u>Unit</u>	<u># New</u>	<u># Retire</u>
-------------	--------------	-----------------

OH Mounting Only

<u>Unit</u>	<u># New</u>	<u># Retire</u>
-------------	--------------	-----------------



ACCIDENT INVESTIGATION TEAM REPORT

PART I

Name of Injured: Rhyan Dickerson
Job Title: Apprentice Lineman
Department: Operations Date of Employment: 12-05-2011

PART II

Accident Classification and Type (Check All Applicable Boxes)

Fatality Electrical Contact Lost Workday

Weather Conditions: Partly Cloudy & Fair

Date of Incident: 10-7-14 Time: 11:23 (911 was called)

Incident Reported to: Casey Baker Date: 10-7-14 Time: 11:29

Where did incident occur? (Be specific, give physical address):

US 60 9674, Surgis, KY

Names of Witnesses to Incident:

Kevin Board
Terry Frederick
Eric Winebarger

Name and Classification of Supervisor in Charge of Work:

Terry Frederick, Crew Leader

Brief Description of Incident:

Kenergy Employee, Rhyon Dickeson made
hand to hand contact with a 7200 volt primary
Transformer stinger at the left hand and the
system neutral with the right hand while
connecting a secondary neutral.
(see Attachment)

PART III

Names and Title(s) of individuals interviewed:

Terry Frederick, Crewleader (in charge)
Kevin Board, Crewleader
Eric Winebarger, Lineman

Does the investigating committee feel it has a clear picture of just what caused the accident? Yes No

If yes, why did this incident occur? (If no, please explain):

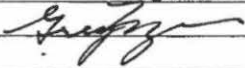


The employee removed his rubber gloves
while working close to an energized
7,200 Volt primary conductor.

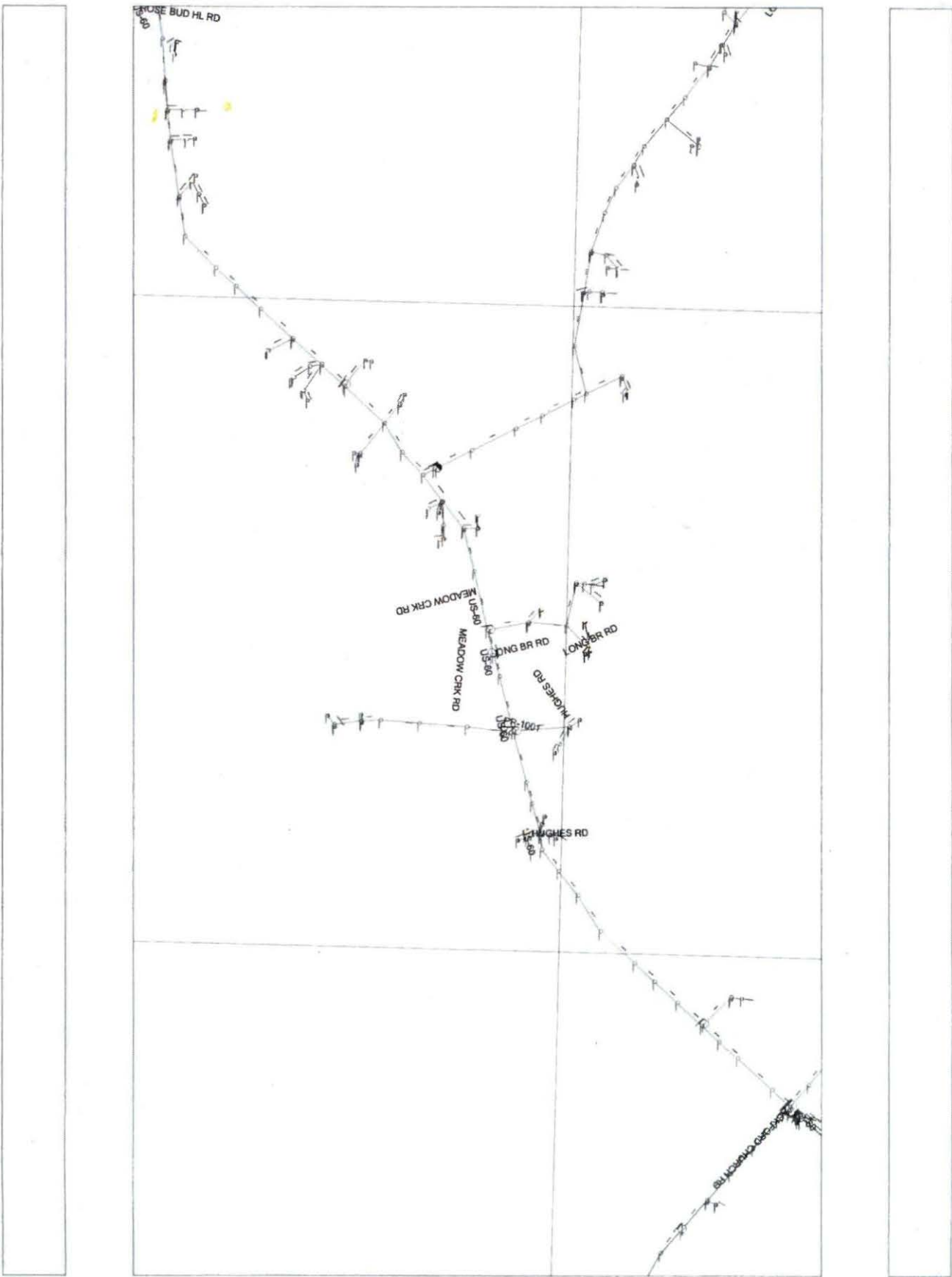
Recommended Action

Recommended Action:

Review of work procedures for working Energized utility Poles and the employers policy for violation Rubber gloving rules.

Accident Investigation Team Committee

Signature	Title	Date
	Member Systems Safety Director	10-7-14
	VP of Operations	10-9-14
	Risk Coord.	10-9-14





Sullivan Reclosers								
Feeder Name	Sullivan	Blackford	Ky Stone					
Feeder Number	Feeder 1	Feeder 2	Feeder 3	Feeder 4	Feeder 5	Feeder 6	Feeder 7	Feeder 8
Manufacturer	McGraw	McGraw	McGraw					
Serial Number	1231	849	1228					
Date of Manuf.	Mar-76	Dec-74	Mar-76					
Rating (Bushings)	7200v	7200v	7200v					
Amp Rating	560	560	560					
Closing Coil Rating	7200V	7200V	7200V					
Gallons of Oil	55	55	55					
Non-PCB	Yes	Yes	Yes					
C.T. Settings	100/5	200/5	200/5					
Multiplier	X 20	X 40	X 40					
Ground Trip (Amps)	120	120	120					
A ph Trip (Amps)	400	400	400					
B ph Trip (Amps)	400	400	400					
C ph Trip (Amps)	400	400	400					
Control Panel	FORM 6	FORM 6	FORM 6					
Breaker Type	VWE	VWE	VWE					

SUBSTATION	FEEDER NO./NAME	NUMBER OF OPER			INTERVAL DELAYS			GRD TRIP TIMING		PHASE TRIP TIMING		MINIMUM TRIP SELECTOR				RESET
		GROUND TRIP	TRIP OUT	PHASE TRIP	1ST	2ND	3RD	1	2	1	2	A	B	C	GND	
SULLIVAN	F1, Sullivan	2	4	2	0.3	2	5	113	140	105	133	400	400	400	120	10
	F2, Blackfc	2	4	2	Inst.	2	5	113	140	105	133	400	400	400	120	10
	F3, Ky. Stc	2	4	2	0.3	2	5	113	140	105	133	400	400	400	120	10

Transformer Inventory : Service Location:42542002

Account Level [See Aside] | Refresh [X]

Transformer #	Secondary ID	Site	Type	Status	Location	Bank #	Transf Seq	Serving	PCB PPM Rpt
628758AA	1	15012	Active	42542002	0	0	0	0	0

Secondary ID:

Manufacturer: 01 - USS STATEWIDE

Model: Part Number:

Type: 2

Arrestor Lead: 0

Arrestor Cond:

Purchase Information

Consumer Owned

Purchase Dt: 01/01/1935

PO #: 1

Cost: 0.00

Maintenance/Repair Information

Completed Date:

Rebui Date:

Retrofl Date:

Test Information

Last Test Date:

Type:

PCB PPM Result:

Rating Information

Size: 15.0 Phase: 1

Prn Vols H/L: 12470 / 7200 Polarity: 0

Sec Vols H/L: 240 / 120 Taps:

Impedance: 2.90 Oil Galons: 0.0

Impedance Vols: 0 Oil Weight: 0.0

Voltage Rating: 0 Total Weight: 0.0

Set Vols: 0 Efficiency: 0

Set Amps: 0.0 Load Loss: 0.000

Test Amps: 0.0 No Load Loss: 0.000

Core Loss: 0

Installation History

Status: 1 - Active

Transf Bank: 0

Map Location: 42542002

Conn Serv: 1

Pole:

Conn Type:

Alt Pole:

Instal Cost: 0.00

Open Field(s)

DISPOSAL CODE:

DISPOSAL DT:

MANIFEST:

RECLASS DT:

PCB TAG:

WARRANTY:

NO LOAD WATT:

FULL LOAD WATT:

REPAIR YRMO:

3 PHASE

Save | Reset | Add | Delete | Refresh



**KENERGY CORPORATION
POLES NEEDING MAINTENANCE REPORT**

Division Name: MARION	Contractor: Osmose Utilities Services, Inc.	Reference #: 549PM05B	County: CRITTENDEN
Map Number: 425	Week Ending: 02/01/2014	Crew ID: 549PM	State: KY
Grid: 22	Date: 01/30/2014	Foreman: PATRICK MULLEN	
	Job Number: 1012581	Supervisor: KEISTER, RANDY LEE	

POLE ID	MFR	YEAR	LENGTH/ CLASS	SPECIES/ TREAT	ORIG CIRC	EFF CIRC	INSP TYPE	MAINTENANCE NEEDED
42522013	UNK	E1976	35/5	SP/P	30	30	TD	Split Top.
X: -87.993568 , Y: 37.47803								
42522014	ELR	1977	25/6	SP/P	22	22	T	Split Top.
X: -87.993343 , Y: 37.478143								
42522015A	BRN	1989	30/6	SP/PA	24	24	BD	Decayed Top.
X: -87.993142 , Y: 37.478698								
Grid: 24			Date: 01/27/2014					
42524025	ESC	1980	35/5	SP/P	31	31	TD	Split Top. Missing Ground Rod.
X: -87.949938 , Y: 37.468762								
42524064	UNK	E1979	E25/6	SP/C	24	24	TD	Decayed Top.
X: -87.94787 , Y: 37.467215								
Grid: 32			Date: 01/30/2014					
42532004	UNK	E1981	E40/5	SP/C	32	32	TD	Decayed Top.
X: -87.990493 , Y: 37.461085								
Grid: 34			Date: 01/27/2014			Reference #: 549PM05C		County: WEBSTER
42534035	UNK	E1979	E30/6	SP/C	26	26	T	Decayed Top.
X: -87.94552 , Y: 37.452343								
Grid: 42			Date: 01/31/2014			Reference #: 549PM05B		County: CRITTENDEN
42542046	UNK	E1972	40/4	SP/C	34	34	T	Medium Woodpecker Holes: 1. Decayed Top.
X: -87.985063 , Y: 37.441235								
42542016	BEL	1993	40/5	SP/SK	32	32	TD	Medium Woodpecker Holes: 3.
X: -87.989963 , Y: 37.44061								
42542018	UNK	E1979	E30/5	SP/C	29	29	T	Small Woodpecker Holes: 1. Split Top. Decayed Top.
X: -87.989572 , Y: 37.438773								
42542013	UNK	E1979	E40/4	SP/C	35	35	T	Medium Woodpecker Holes: 1. Split Top. Decayed Top.
X: -87.994165 , Y: 37.440412								
Date: 02/01/2014								



KENERGY CORPORATION
POLE INSPECTION DETAIL REPORT

Division Name: MARION	Contractor: Osmose Utilities Services, Inc.	Reference #: 549PM05B	County: CRITTENDEN
Map Number: 425	Week Ending: 02/01/2014	Crew ID: 549PM	State: KY
Grid: 42	Date: 01/31/2014	Foreman: PATRICK MULLEN	
	Job Number: 1012581	Supervisor: KEISTER, RANDY LEE	

POLE ID	MFR	YEAR	LENGTH/ CLASS	SPECIES/ TREAT	ORIG CIRC	EFF CIRC	INSP TYPE	Wood Fume	Hollow Heart	Anchor Eye	Grndwire Repair	Guy Marker	Pole Stencil	Cable Dig Risers	REMARKS AND NOTES
42542026 X: -87.982915 , Y: 37.441762	BRN	2009	40/5	SP/SK	35	35	V								
42542055 X: -87.982843 , Y: 37.442085	BRN	2006	30/6	SP/SK	27	27	V								
42542056 X: -87.982735 , Y: 37.442315	BRN	E1985	E25/5	SP/C	26	26	BD	1							Internal Sapwood Decay.
42542023 X: -87.983788 , Y: 37.441398	BRN	E1972	40/5	SP/C	30	30	TD	1			2		1		Internal Sapwood Decay. Previous Cycle Info: Full Excavate, MITC-FUME. Year Last Inspected: 2005. Last Inspected By: OSM. Ground Resistance Measurement: 38.
42542024 X: -87.984195 , Y: 37.441553	BRN	E1972	E35/7	SP/C	20	20	TD	1							Internal Sapwood Decay. Previous Cycle Info: Full Excavate, MITC-FUME. Year Last Inspected: 2005. Last Inspected By: OSM.
42542046 X: -87.985063 , Y: 37.441235	UNK	E1972	40/4	SP/C	34	34	T								Medium Woodpecker Holes: 1. Decayed Top. Previous Cycle Info: Full Excavate. Year Last Inspected: 2005. Last Inspected By: OSM. Ground Resistance Measurement: 32.
42542049 X: -87.985157 , Y: 37.441568	ACW	1978	30/7	SP/C	22	22	T								Previous Cycle Info: Full Excavate. Year Last Inspected: 2005. Last Inspected By: OSM.
42542050 X: -87.985037 , Y: 37.441743	UNK	E1972	30/6	SP/C	24	24	TD	1					1		Internal Sapwood Decay. Previous Cycle Info: Full Excavate, MITC-FUME. Year Last Inspected: 2005. Last Inspected By: OSM.
42542021 X: -87.986262 , Y: 37.441105	BRN	2013	45/4	SP/SK	35	35	V								
42542020 X: -87.987552 , Y: 37.440918	BRN	E1972	50/3	SP/C	37	37	TD	1					1		Compression Wood. Internal Sapwood Decay. Previous Cycle Info: Full Excavate, MITC-FUME. Year Last Inspected: 2005. Last Inspected By: OSM.
								5	0	0	2	0	3	0	

TEST REPORT # 5**Torco**
TESTING SERVICES, INC.P.O. Box 1717 - Louisville, KY 40201
(502) 561-0506
Toll Free 888-540-0065
Website: torcotesting.comCUSTOMER KenergySTATE Ky TECH. Simpson DATE 7-7-14 TIME 2:50 AMTRUCK # 512 S/N 2080938040MODEL HI-RANGER XML-55 Terek TEMP 85 °F R.H. 61 %AC DIELECTRIC TEST
ANSI/SIA A92.2 SECTION 5.4.3CATEGORY CSTRUCTURAL ANALYSIS
ANSI/SIA A92.2 8.2.4VT - Visual Inspection
ULT - Ultrasonic Test
MT - Magnetic Particle Testing

AREA TESTED	APPLIED VOLTAGE KVAC	TEST TIME MIN.	LEAKAGE MILLIAMPS	RESULTS	AREA TESTED	RESULTS	AREA TESTED	RESULTS
BASKET SHAFT TO LOWER BOOM	40	1	1.074	PASSED	Accessible outrigger welds	VT	Accessible outrigger pins	ULT
LOWER BOOM INSERT	50	1	2.987	PASSED	Lower pedestal welds	VT	Anchor bolts	—
BASKET TO CHASSIS	40	1	1.217	—	Accessible cylinder block welds	VT, MT	Accessible turntable bolts	ULT
EXTENSIBLE BOOM				—	Welds at elbow	VT	Lower boom hinge pin	ULT
BASKET LINER	35	1		—	Welds at basket area	VT	Accessible cylinder pins	ULT
HYDRAULIC OIL	25.6			—	Welds on head of boom	—	Upper boom hinge pin	ULT
HOT STICKS				DIELECTRIC	Boom support	VT	Basket shaft	—
OTHER					Auger support brace	—	Auger hanger pins	—
COMMENTS ON DIELECTRIC TEST					Winch line hooks	—	Pintle hook	VT, MT
					Turret welds	VT, MT		
					NONDESTRUCTIVE FIBERGLASS ANALYSIS			RESULTS
					Real Time X-ray (A.M.) 7-10-14			OK
					COMMENTS ON STRUCTURAL ANALYSIS			

The test results reported herein reflect the condition of the equipment at the time and under the conditions stated herein, and Torco MAKES NO WARRANTIES, and DISCLAIMS ALL WARRANTIES, whether EXPRESS or IMPLIED, as to any matter whatsoever, including without limitation, the condition of the equipment tested, its merchantability or its fitness for any particular purpose. Structural Analysis is limited to accessible welds and pins. This is a test, not a guarantee.



TORCO

TESTING SERVICES, INC.

THOMAS J. GRIMES
PRESIDENT
TOM@TORCOTESTING.COM

P.O. Box 1717 • LOUISVILLE, KENTUCKY 40201
TOLL FREE (888) 540-0065 • (502) 561-0506 • FAX (502) 561-1081
WWW.TORCOTESTING.COM

VISUAL & OPERATIONAL TEST

NAME: KENERGY DATE: 7-7-14

UNIT # 512 S/N 2080938040 MODEL Hiranger XML-55

OUTRIGGERS:

	SEE		
	OK	NOTES	N/A
FOOT	()	()	()
FOOT ATTACHMENT ASSEMBLY	()	()	()
FOOT ATTACHMENT PINS	()	()	()
FOOT ATTACHMENT PIN KEEPERS	()	()	()
FOOT ATTACHMENT PIN BUSHINGS	()	()	()
FOOT WELDS	()	()	()
PADS CONDITION	()	()	()
HYDRAULIC CYLINDER	()	()	()
ACCESSIBLE HYDRAULIC CYLINDER PINS	()	()	()
HYDRAULIC CYLINDER PIN KEEPERS	()	()	()
HYDRAULIC CYLINDER PIN BUSHINGS	()	()	()
ACCESSIBLE OUTRIGGER ATTACHMENT WELDS	()	()	()
OUTRIGGER SEAM WELDS	()	()	()
ACCESSIBLE OUTRIGGER SUPPORT & CROSS BRACE WELDS	()	()	()
OUTRIGGER CONTROLS	()	()	()
OUTRIGGER CONTROL OPERATION	()	()	()
OUTRIGGER CONTROL MARKINGS	()	()	()
HYDRAULIC HOSES	()	()	()
HYDRAULIC HOSE FITTINGS	()	()	()
OTHER	()	()	()

"Testing is Essential"

(2)

PEDESTAL:

	SEE		
	OK	NOTES	N/A
OUTSIDE PEDESTAL	(X)	()	()
INSIDE PEDESTAL	(X)	()	()
PEDESTAL ATTACHMENT ASSEMBLY	(X)	()	()
HYDRAULIC HOSES/FITTINGS	(X)	()	()
ACCESSIBLE PEDESTAL MOUNTING WELDS/BOLTS	(X)	()	()
COLLECTOR BLOCK	(X)	()	()
COLLECTOR BLOCK MOUNTING	(X)	()	()
ROTATION GEAR BOX	(X)	()	()
ROTATION GEAR BOX MOUNTING	(X)	()	()
P.T.O. PUMP CONDITION (LEAKING/NOISY)	(X)	()	()
OTHER	()	()	()

TURRET:

ACCESSIBLE TURRET WELDS/BOLTS	(X)	()	()
SUPPORT WELDS/BOLTS	(X)	()	()
ACCESSIBLE TURRET MOUNTING BOLTS	(X)	()	()
ACCESSIBLE TURNTABLE BOLTS	(X)	()	()
ACCESSIBLE LIFT CYLINDER BLOCK WELDS	(X)	()	()
HYDRAULIC HOSES/FITTINGS	(X)	()	()
HORIZONTAL MOVEMENT (BEARINGS)	(X)	()	()
CONTROL OPERATION	(X)	()	()
CONTROL MARKINGS	(X)	()	()
ROTATION MOVEMENT (BACKLASH)	(X)	()	()
BULL & PINION GEARS	(X)	()	()
OTHER	()	()	()

FIRST STAGE OR LOWER BOOM:

ACCESSIBLE BOOM WELDS	(X)	()	()
BRACES INSIDE BOOM @ MAIN HINGE PIN	(X)	()	()
MAIN BOOM HINGE PIN SUPPORTS	(X)	()	()
LOWER BOOM LIFT CYLINDER PINS	(X)	()	()
LOWER BOOM LIFT CYLINDER PIN KEEPERS	(X)	()	()
LOWER BOOM LIFT CYLINDER PIN BUSHINGS	(X)	()	()

(3)

	OK	SEE NOTES	N/A
LOWER BOOM LIFT CYLINDER PIN SUPPORTS	()	()	()
CONDITION OF LIFT CYLINDER	()	()	()
CONDITION OF HOLDING VALVES	()	()	()
HYDRAULIC HOSES/FITTINGS	()	()	()
UPPER BOOM LIFT CYLINDER PINS	()	()	()
SCISSOR LINKS	()	()	()
SCISSOR MOUNTING BRACKET & PINS	()	()	()
LOWER BOOM SADDLE ASSEMBLY	()	()	()
EXTENSION ROLLER OR BEARINGS	()	()	()
ACCESSIBLE LIFT CABLES	()	()	()
LIFT CABLE GUIDE	()	()	()
ACCESSIBLE LIFT CABLE GUIDE PINS	()	()	()
LIFT CABLE ATTACHMENT ASSEMBLY	()	()	()
FIBERGLASS INSERT CONDITION (INSIDE & OUT)	()	()	()
FIBERGLASS INSERT MOUNTING	()	()	()
ACCESSIBLE LEVELING CABLES	()	()	()
ACCESSIBLE LEVELING RODS	()	()	()
LEVELING CABLE SHEAVES	()	()	()
OTHER	()	()	()

SECOND STAGE OR UPPER BOOM:

BOOM WELDS	()	()	()
EXTENSION CYLINDER	()	()	()
EXTENSION CYLINDER PINS	()	()	()
EXTENSION CYLINDER PIN KEEPERS	()	()	()
EXTENSION CYLINDER PIN BUSHINGS	()	()	()
LIFT CYLINDER	()	()	()
LIFT CYLINDER HOLDING VALVE	()	()	()
LIFT CYLINDER PINS	()	()	()
LIFT CYLINDER PIN KEEPERS	()	()	()
LIFT CYLINDER PIN BUSHINGS	()	()	()
CONDITION OF FIBERGLASS COATING	()	()	()
FIBERGLASS MOUNTING	()	()	()
LEVELING CABLE SHEAVES	()	()	()
LEVELING RODS	()	()	()
LEVELING CABLES	()	()	()
WEAR PADS	()	()	()
OTHER	()	()	()

(4)

THIRD STAGE BOOM:

	OK	SEE NOTES	N/A
ACCESSIBLE BOOM WELDS	()	()	(X)
EXTENSION CYLINDER	()	()	(X)
EXTENSION CYLINDER PINS	()	()	(X)
EXTENSION CYLINDER PIN KEEPERS	()	()	(X)
EXTENSION CYLINDER PIN BUSHINGS	()	()	(X)
CONDITION OF FIBERGLASS COATING	()	()	(X)
FIBERGLASS MOUNTING	()	()	(X)
WEAR PADS	()	()	(X)
OTHER	()	()	(X)

BUCKET:

GENERAL CONDITION	()	()	()
BUCKET ROTATOR	()	()	()
BUCKET ROTATOR OPERATION	()	()	()
HYDRAULIC ROTATION CYLINDER	()	()	()
HYDRAULIC ROTATION CYLINDER PINS	()	()	()
HYDRAULIC ROTATION CYLINDER PIN KEEPERS	()	()	()
BUCKET EMERGENCY DUMP SYSTEM	()	()	()
STOP/START CONTROLS	()	()	()
THROTTLE CONTROL	()	()	()
BOOM OPERATION CONTROLS (UPPER CONTROLS)	()	()	()
BOOM OPERATION CONTROL MARKINGS	()	()	()
HYDRAULIC HOSES	()	()	()
CAPACITY CHART	()	()	()
BUCKET LINER CONDITION	()	()	()
OTHER	()	()	()

MATERIAL HANDLER:

JIB	()	()	()
JIB SLIDE COLLAR	()	()	()
JIB ATTACHMENT ASSEMBLY	()	()	()
JIB WINCH LINE	()	()	()
JIB WINCH LINE HOOK	()	()	()
JIB WINCH LINE PULLEY	()	()	()

(5)

	OK	SEE NOTES	N/A
JIB WINCH LINE PULLEY PIN	(/)	()	()
JIB CONTROLS	(/)	()	()
JIB CAPACITY CHART	(/)	()	()
JIB TILT PIN	(/)	()	()
JIB TILT PIN KEEPERS	(/)	()	()
JIB TILT PIN BUSHINGS	(/)	()	()
JIB TILT HYDRAULIC CYLINDER	(/)	()	()
CONDITION OF FIBERGLASS COATING	(/)	()	()
OTHER	()	()	()

DIGGER DERRICKS:

AUGER	()	()	(/)
AUGER MOTOR HOUSING	()	()	(/)
AUGER SWING ARM & ATTACHMENT	()	()	(/)
AUGER TAKE-UP CABLE OR ROPE	()	()	(/)
AUGER STOP BRACE AREA	()	()	(/)
AUGER SLIDE COLLAR	()	()	(/)
AUGER SLIDE COLLAR GUIDE PIN	()	()	(/)
POLE CLAW ATTACHMENT	()	()	(/)
POLE CLAW CYLINDER (OPEN/CLOSE)	()	()	(/)
POLE CLAW CYLINDER (UP/DOWN)	()	()	(/)
POLE CLAW ARMS	()	()	(/)
WINCH LINE OR ROPE	()	()	(/)
LIFTING HOOK	()	()	(/)
OTHER	()	()	()

MISCELLANEOUS:

PARKING BRAKES	(/)	()	()
CAB GUARD	()	()	(/)
WINCH CONDITIONS (TRUCK MOUNTED)	()	()	(/)
WINCH ROLLERS	()	()	(/)
WINCH MOUNTING BOLTS/WELDS	()	()	(/)
WINCH CABLE	()	()	(/)
WINCH CABLE HOOK	()	()	(/)
CONDITION OF UTILITY BODY	(/)	()	(/)
TORSION/SWAY BAR	()	()	(/)
OTHER	()	()	()

(6)

NOTES AND/OR COMMENTS PAGE

10-7-14

Rhyan ASK me to move his Digger
TRUCK to other side of Pitch, I was needing
more Brown sheets found them in his
TRUCK Erick was on little Bridge
watching Him I walked across Bridge
to Brown sheet in TRUCK SO I walked
BACK to Erick on Bridge when I
I heard the shock Erick Hollowing
AT Him then He Hallowed C.O. I
I RAN to TRK 512 and let Him
Down Erick and Kevin pulled him
OUT OF BUCKET Kevin RAN to his
TRK 508 get AED I was on my knee
Beside Him Rhyan I put pads
ON Him the AED walked me
threw the CPR Thank God we
had them because I think my
minded would HAVE went Blank

Tammy [Signature]

I was at the meter pole & heard the flash & looked up to see what it is & saw Ryan fall down in the bucket. Eric told me to call 911 & Terry to get the bucket down. I called 911 then helped Eric get Ryan out of the bucket. We started CPR & I grabbed the AED off my truck & we hooked it to Ryan. We ~~also~~ kept doing CPR & what the AED said to do until the EMS got here & took over.

Ken Brown

had his Gloves and sleeves on
I turned to go get something I
heard a noise turned around and
he had got into primary she
fell down into bucket Terry Frederick
lowered bucket I pulled Ryan out
he did not have Gloves on started
CPR immediately yelled to Kevin to
call 911 he got AED
hooked it up to Ryan and let
it do its thing continued CPR
and using AED till paramedics
got there he

Eric Winebarger

KENERGY CORP
Safety Rule Addendums

A. GENERAL WORK PROCEDURES

1. Elevator

Employees shall not use the elevator when:

- a. a fire warning has been issued
- b. severe weather/tornado is imminent
- c. alone in the building

2. Tornado/Sever Storm

Employees shall observe the following rules when severe weather conditions exist (dangerous winds, tornados, etc.).

- a. Employees in the Owensboro office building shall move in a quick and orderly manner to the basement area.
- b. Employees working in buildings with vaults shall move quickly, in an orderly manner, to the vault.
- c. Employees in any of the branch offices or located "in the field" shall seek safe shelter nearby.
- d. Employees shall assist visitors in seeking safe shelter.

3. Operation/Repair of Equipment/Machinery

Only authorized and qualified personnel shall operate, repair, or adjust any machine or equipment.

4. Supervision

When it is necessary for the supervisor or crew leader to leave his/her employees, an employee shall be appointed as in charge, verbally by the supervisor or crew leader and all affected employees shall be notified. The person assigned as in charge shall have the same authority as the supervisor with regard to work assignments and safety.

5. First Aid

- a. First aid kits are furnished in all buildings and vehicles. Building first aid kits are inspected and re-supplied monthly by a contract vendor.
- b. A standard first aid course is compulsory for all outside employees within 90 days of employment.

6. Working on Energized Lines

- a. No hand contact work shall be performed from a pole on lines or equipment energized at 600v or greater, regardless of protective equipment. All rubber gloving work performed on an energized line and equipment shall be from an aerial lift (approved bucket truck).
- b. **(Exception to APPA 605 b)**
Any conductor may be worked as energized if the lead line technician on site agrees work may be performed safely following a thorough visual inspection of conductor by qualified personnel. If the condition of any conductor is questionable, or cannot be performed safely, it must be de-energized before working.

B. TRAFFIC/VEHICLES

1. Traffic Rules

- a. Employees shall familiarize themselves with and obey all motor vehicle laws. Employees will be personally responsible for any traffic violations. Repeated violations shall be cause for disciplinary action up to and including dismissal.
- b. KENERGY vehicles shall not be driven in a careless or reckless manner or so as to endanger the life or property of employees or pulic or cause damage to the vehicle.
- c. Vehicle operators shall observe all traffic/school zone regulations.
- d. Company vehicles shall not be used to transport more than the rated number of passengers.
- e. **(Exception to APPA 301 G)** Employees may ride in back of a truck for short distances and at idle speed at the jobsite, but shall not ride atop the cab or have any limbs hanging from the sides of the vehicle.
- f. Vehicle operators shall be courteous under all circumstances. Any act of discourtesy on the highways, (road hogging, insistence of the right-of-way, tailgating, etc.) will reflect discredit upon both the operator and KENERGY.
- g. Operators of Kenergy vehicles shall park to avoid backing when possible. A traffic cone shall be placed in front or back of right-of-way, service, and/or construction vehicles depending on the direction the vehicle is to be moved, causing the operator to circle the vehicle to retrieve the cone before moving the vehicle. Drivers of vehicles without cone requirements shall circle the vehicle looking for obstructions before moving the vehicle.
- h. **(Exception to APPA 305 f)**
Any DOT Commercial Motor Vehicle shall be chocked while auxiliary equipment is operational. More specifically, one rear wheel shall be chocked front and back.

2. Care of Vehicles and Equipment

- a. Incidents involving KENERGY vehicles or property shall be reported in accordance with the Reporting of an Employee Incident policy.
- b. Willful damage to any KENERGY vehicle or equipment shall be cause for disciplinary action up to and including dismissal.
- c. Crew leaders shall be responsible for care of trucks, equipment, and materials. Drivers shall immediately report any damage to trucks or equipment. Concealment of any damage or act may be cause for disciplinary action up to and including dismissal.

- d. Vehicles, including fire extinguishers, first aid kits and all applicable equipment as listed on **Monthly Vehicle Inspection** form EP-22, will be inspected monthly by assigned personnel.
- e. Truck tools and personal tools will be inspected each calendar quarter by assigned personnel.
- f. Tools shall be properly stored on trucks to maintain good house-keeping and prevent the loss of or damage to equipment.

C. PROTECTIVE APPAREL

1. Rubber Gloves and Rubber Sleeves

(Exception: APPA 604 c)

- a. Employees shall wear rubber gloves when climbing and working on energized poles or any energized service conductors.
- b. Kenegy maintains the policy, "Rubber gloves shall be worn from the ground up".
- c. Rubber sleeves shall be worn within minimum approach distance of primary (see Table 6.1 in APPA Safety Manual) while climbing energized pole.
- d. (Addendum to 604(c) When working on lines or equipment energized above 600 volts from an aerial device, rubber gloves and sleeves shall be worn from cradle to cradle.
- e. Maximum field use of rubber gloves and sleeves should not exceed 60 days.
- f. APPA 702 g) Line Clearance Tree Trimmers shall use insulating equipment and rubber gloves when working on limbs within or that which might reach within the minimum approach distance as defined in Table 6.1 of the APPA Safety Manual.

2. Hard Hats

Employees and visitors engaged in the construction or maintenance of distribution lines and associated equipment shall wear ANSI approved (Class E) head protection. Right-of-way personnel shall wear approved head protection whenever they are engaged in activities directly associated with clearing right-of-way. Employees who are exposed to the dangers of falling objects, electrical contact, or other hazards associated with head injury shall be required to wear head protection. When handling, issuing, loading or unloading materials, whether inside or out, a hard hat, safety glasses, and other personal protective equipment shall be worn. Specific areas where head protection is required include; but are not restricted to the pole yard, transformer dock, and substation areas. Individuals shall inspect their head protection daily and supervisors shall inspect head protection under their direction quarterly. Defective equipment shall be removed from service and replaced immediately.

3. Hearing Protection

Employees and visitors shall wear ANSI approved hearing protection when there is a possibility of hearing damage as described in APPA Safety Manual Section 203 or as directed. It shall be the responsibility of each employee to inspect hearing protection prior to each use and replace immediately, if warranted.

4. Leg Protection

Employees operating chainsaws at ground level shall wear leg protection supplied for the purpose.

D. TOOLS, EQUIPMENT, CLOTHING & SAFETY ACCESSORIES

1. Tools shall be inspected before use.
2. Equipment
Hotsticks, eight feet or longer, shall be used when working energized lines with the exception of approved URD elbow pulling sticks or at the direction of the V.P. of Operations.
3. Tools, equipment, and materials shall not be thrown from the ground to employees working aloft, between employees working aloft, or from employees working a lot to the ground.

E. CELL PHONES

(Exception: APPA 136(4) Bullet 5)

Cell phones may be used while driving when a hands free call/talk system is utilized.

F. SETTING AND REMOVING POLES (de-energized primary)

(Exception: APPA 618 g)

Work gloves and long sleeve shirts shall be worn by employees when climbing, setting and removing poles.

G. HAZARDOUS ENERGY CONTROL

(Exception to APPA 616)

1. Protective grounds shall be installed at the de-energized work site closest to the employee performing the work.
2. Where taps or transformers exist between protective grounds and employees, those sources of energy shall be disconnected or grounded.

H. HOURS OF SERVICE

(Exception to APPA 208: Refer to Kenergy's Standby & Response Time Policy and Prolonged Outage Response Policy.)

I. SAFETY PRESCRIPTION GLASSES

(Exception: APPA 115 m) Refer to Kenergy's Eye & Face Protection Policy.

J. **FIBER OPTIC REPAIR**

Grounding harness shall be used when working on fiber optic cable.

K. **FIRE RETARDANT CLOTHING**

1. Only approved fire retardant clothing provided for employees exposed to electrical arcs or flames shall be used. Refer to Engineering's study of heat generated by fault current dated January 14, 2005 contained herein.
2. Long sleeve flame retardant shirts are provided to protect employees from hazards including, but not limited to, electric arcs or flashovers and wood pole chemical treatments. Long sleeve FR shirts shall be worn while working from bucket trucks, climbing, while performing any switching operation, in energized substations, before opening or working on any energized underground equipment or apparatus, when spraying or handling right-of-way chemicals, or anytime rubber gloves are required to be worn. FR t-shirts may be worn while handling, framing and setting de-energized poles unless otherwise specified. Refer to APPA Safety Manual for all other applications.

L. **METERING**

1. **Exception to APPA 623 a)** rules are applicable with the exception that at a minimum, leather work gloves may be worn in place of rubber gloves when installing or removing meters rated at or below 240 volts. A meter pulling device, long sleeve fire retardant clothing, face shield, and rubber gloves rated for a minimum of 5,000 volts shall be used when setting or removing a meter operating at or above 480 volts when unable to de-energize the meter or service.
2. Meter pulling devices shall be used to remove visibly damaged meters.

M. **POWERED TRIMMING EQUIPMENT**

(Exception: APPA 705 a) Employees operating powered trimming equipment shall wear suitable eye protection.

N. **FALL PROTECTION**

Exception to APPA 117 j) Fall arrest equipment shall be used by all employees when climbing or changing positions on poles or similar structures.

O. **OUTRIGGERS**

Addendum to APPA 312 j) Outriggers pads shall always be used.

**PENALTIES FOR VIOLATIONS OF SAFETY RULES IN THE
AMERICAN PUBLIC POWER ASSOCIATION MANUAL**

Rollover period is the length of time an offense is effective. If subsequent offenses occur within the effective period, additional offenses will be applied accordingly.

Time off will be without pay.

Supervisor will be subject to same disciplinary action if he is aware of the violation and allows the violation to continue.

Any employee who is involved in an unsafe practice or who is a witness to an unsafe practice and refuses to give a complete statement of his/her knowledge of said unsafe practice shall be subject to the same disciplinary action as the employee who committed the unsafe practice.

Nothing contained herein shall prevent management from immediately dismissing any employee for a violation of the safety rules.

P1 1st. Offense
Time off, demotion or discharge. (P1 applies to all rules; when an employee willfully or intentionally violates a rule resulting in injury to himself or others.)

P2 1st. Offense 1 week off
2nd. Offense Demotion or discharge Two-year rollover

602 a), f),	803 g)	<u>Addendums:</u>
604 b)- d)	804 b)	A6 (a)
605 a)	903 a), c), f)	C1 (a-d, & f)
607 a)-b)	904 a)-f)	G
611 b)	905 a)-e)	
615 a)- b), f)	906 c)	
618 d2)		

P3 1st. Offense 3 days off 18 month rollover
2nd. Offense 1 week off
3rd. Offense Demotion or discharge

111	609 c)	<u>Addendums:</u>
310 k)	615 k), l), m)	
312 v)	626 a) (11)	
602 d)	803 a)-d)	

<u>P4</u>	<u>1st. Offense</u>	1 day off	
	<u>2nd. Offense</u>	3 days off	<u>One-year rollover</u>
	<u>3rd. Offense</u>	Demotion or discharge	

103	619	<u>Addendums:</u>
104 a)	620	B2 (a-c)
109	623 a), d), h)	C2
113	617 a)-k)	C4
123 k)	618 d1)-d3), n	D2
126 c)	701 a), i)	I
134 h), i), j)	702 a)-e)	L1
201	705 a)	M
202	706 d)	N
312 h), k), o), r)	801 1), 2)	
402 c)	802 g)	
403 a), e), f), g), h)	803 e), f)	
601 a)-e), j)-n)	903 b), d), e)	
601 a)-e), j)-n)	906 a), b), d)-h)	
602 b)-c), g)	907 d2), f)-cc)	
603 a), b), d), e), f), h)	1101 e) (4), (5), g)	
604 e)	1201 g), o), s)	
604 g)	1405	
605 b),g),i),l),n)	1501	
610 a), c)	1504	
611 a), c)	1506	
613 b)-d), g)	1507	
614 a)-s), u), v), x)	1508	
615 g)-j)	1602	

<u>P5</u>	<u>1st. Offense</u>	Written reprimand	<u>One Year rollover</u>
	<u>2nd. Offense</u>	Written reprimand to 1 day off	
	<u>3rd. Offense</u>	2 days to 1 week off, demotion	
		or discharge	

104 b)-e)	119	<u>Addendums:</u>
105	120	A6 (b)
106	121	B1 (a-h)
107	122	B2 (d-f)
108	123	C3
110	124 a)-c), e)	D3
112	125 d4)	E
114	126	J
117 a)-m)	127	K
118	128	L2

129	131	<u>Addendum Cont.:</u>
130	133	F
134 a)-g), k)-u)	610 b), d), e)	L3
136	611 d)	O
203	612 a), b), d)	
204	613 a), e), f), d)	
206	614 w)	
207 c), f1), f2), f6)	616	
301	617 d), f)	
302	618 a), b), e), f), h- m)	
303	621	
304	622 a)-n)	
305	623 b)-c), e)-g), i)- o)	
306	625 c)-p), r)	
307	626 a)(9), b)	
308	701 b)-h), j)-r)	
309	702 f), h-p)	
310 a)-j), l)-s)	703	
311	704	
312 a)-g), i), j), l)-n), p)-q),s), u), w)	705 b)-r)	
314 a)	706 a)-c), e)-k)	
401	707	
402 a), b), d), e)	708	
403 b), c), d)	801 3), 4)	
501	802 a)-f), h)803 h)- j)	
502	804 a)	
503	806	
504	1101 a)-d), e)(1)- (3), (6)-(10), f), i)-l)	
601 i)	1102	
602 e), f), h)-k) n)	1201 a)-f), i)-n), p)- r), t)	
603 c), g), i)-o)	1502	
604 f), h-k)	1503	
605 c)-f), h), j)-l)	1505	
607 c), d)	1509	
609 a), b)	1601	



MEMORANDUM

DATE January 14, 2005

Kenergy Central Safety Committee

FROM John Newland

SUBJECT: Compliance of Personal Protective Equipment with NFPA 70E

The above regulation requires an analysis of an employee's PPE in terms of ability to withstand the heat energy resulting from an arcing incident in the work environment. This standard has not been adopted for our industry.

Our PPE (5.5 oz. cotton) complies with the current requirements. If the NFPA 70E requirements become the standard for our industry, there is a probability that no cotton fabric will comply.

An alternate approach that has been submitted is a pre-print proposal to the 2007 NESC and takes into account parameters that more closely describe the work conditions of our industry. If the proposed language of that proposal were adopted, Kenergy would not have to change what is now being provided to employees.

I recommend we closely monitor developments on this subject and not make any changes at this time.

Attachment B

KPSC Accident Notification from Kenergy

Kingsolver, Steve (PSC)

From: Kingsolver, Steve (PSC)
Sent: Tuesday, October 07, 2014 12:56 PM
To: Gorjian, Fereydoon (PSC); Johnson, Jeff A (PSC); Kingsolver, Steve (PSC); Moore, Jeffrey C (PSC); Morris, Scott A (PSC); Rice, James D (PSC); Shupp, John (PSC); Willard, Kyle (PSC)
Subject: Kenergy Accident- Employee

Tracking:	Recipient	Delivery	Read
	Gorjian, Fereydoon (PSC)	Delivered: 10/7/2014 12:56 PM	
	Johnson, Jeff A (PSC)	Delivered: 10/7/2014 12:56 PM	
	Kingsolver, Steve (PSC)	Delivered: 10/7/2014 12:56 PM	
	Moore, Jeffrey C (PSC)	Delivered: 10/7/2014 12:56 PM	
	Morris, Scott A (PSC)	Delivered: 10/7/2014 12:56 PM	Read: 10/7/2014 12:57 PM
	Rice, James D (PSC)	Delivered: 10/7/2014 12:56 PM	
	Shupp, John (PSC)	Delivered: 10/7/2014 12:56 PM	
	Willard, Kyle (PSC)	Delivered: 10/7/2014 12:56 PM	

Kenergy Corp. Accident

Date of Accident: 10-7-14

Time of Accident: Approximately 12:20 PM EDT

Reported to Commission By: Bobby Hayden, Kenergy

Time/Date Reported to Commission: Approximately 12:38PM EST / 10-7-14

Bobby knew very little at the time of reporting. It is an employee accident and CPR was being performed on the victim. Bobby will be gathering information and will forward as it becomes available. This happened near the community of Marion, Kentucky.

An on-site investigation will be performed on this on Thursday, 10-9-14. This will be the first day I will be available to do this.

A summary report will follow.

Steve Kingsolver

Attachment C

KPSC Photographs of Accident Site





10/9/2014 11:13:02 AM

Kenergy Accident (10-7-14) (Dickerson)



Kenergy Accident (10-7-14) (Dickerson)

10/9/2014 11:13:19 AM



10/9/2014 11:13:27 AM

Kenergy Accident (10-7-14) (Dickerson)

Kenergy Accident (10-7-14) (Dickerson)

10/9/2014 11:13:38 AM





10/9/2014 11:14:05 AM

Kenergy Accident (10-7-14) (Dickerson)





10/9/2014 11:14:26 AM

Kenergy Accident (10-7-14) (Dickerson)

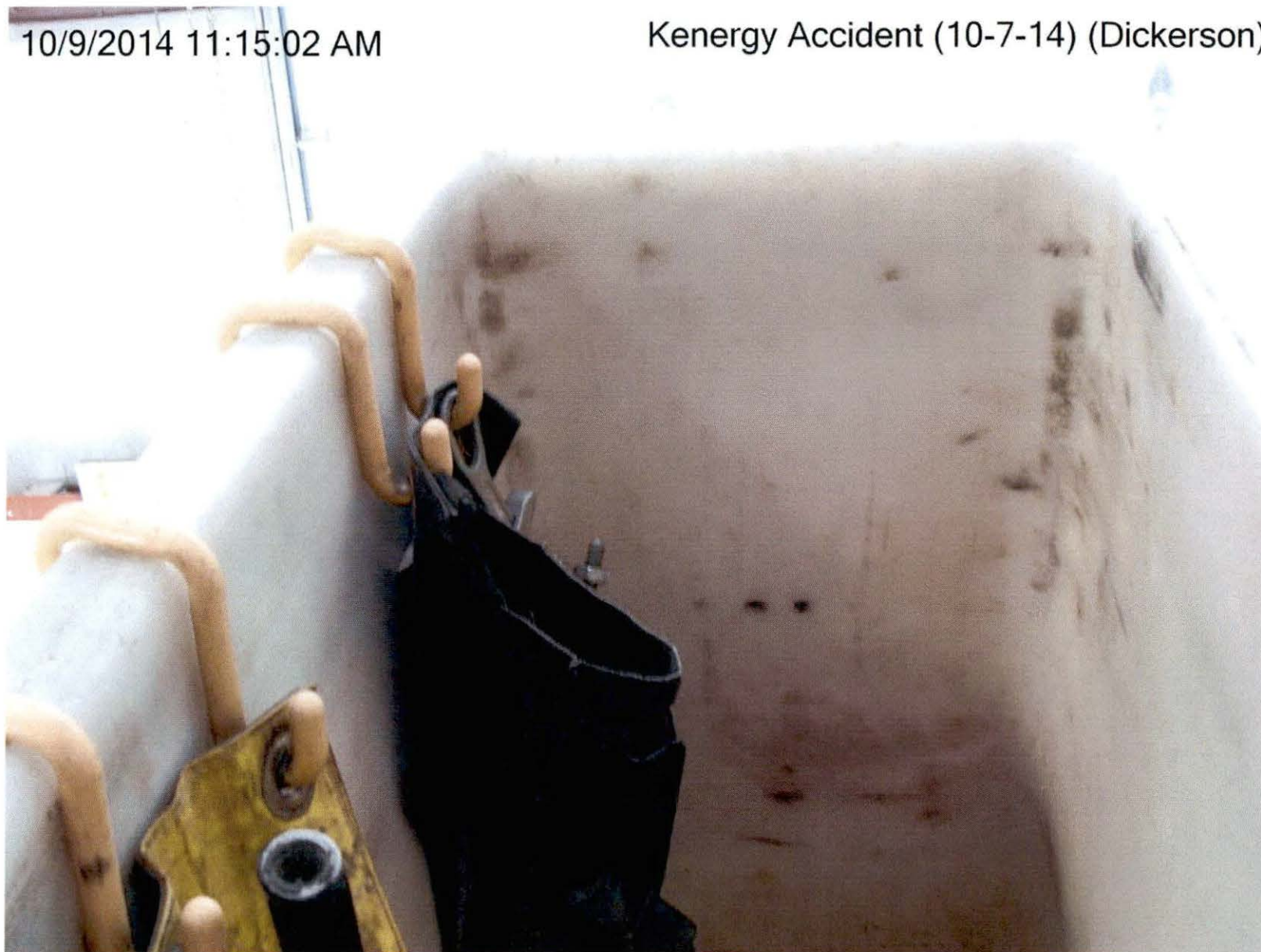


Kenergy Accident (10-7-14) (Dickerson)

10/9/2014 11:14:53 AM

10/9/2014 11:15:02 AM

Kenergy Accident (10-7-14) (Dickerson)



Kenergy Accident (10-7-14) (Dickerson)

10/9/2014 11:15:11 AM





Kenergy Accident (10-7-14) (Dickerson)

10/9/2014 11:17:15 AM



Kenergy Accident (10-7-14) (Dickerson)

10/9/2014 11:17:40 AM



Kenergy Accident (10-7-14) (Dickerson)

10/9/2014 11:17:53 AM





Kenergy Accident (10-7-14) (Dickerson)

10/9/2014 11:21:08 AM



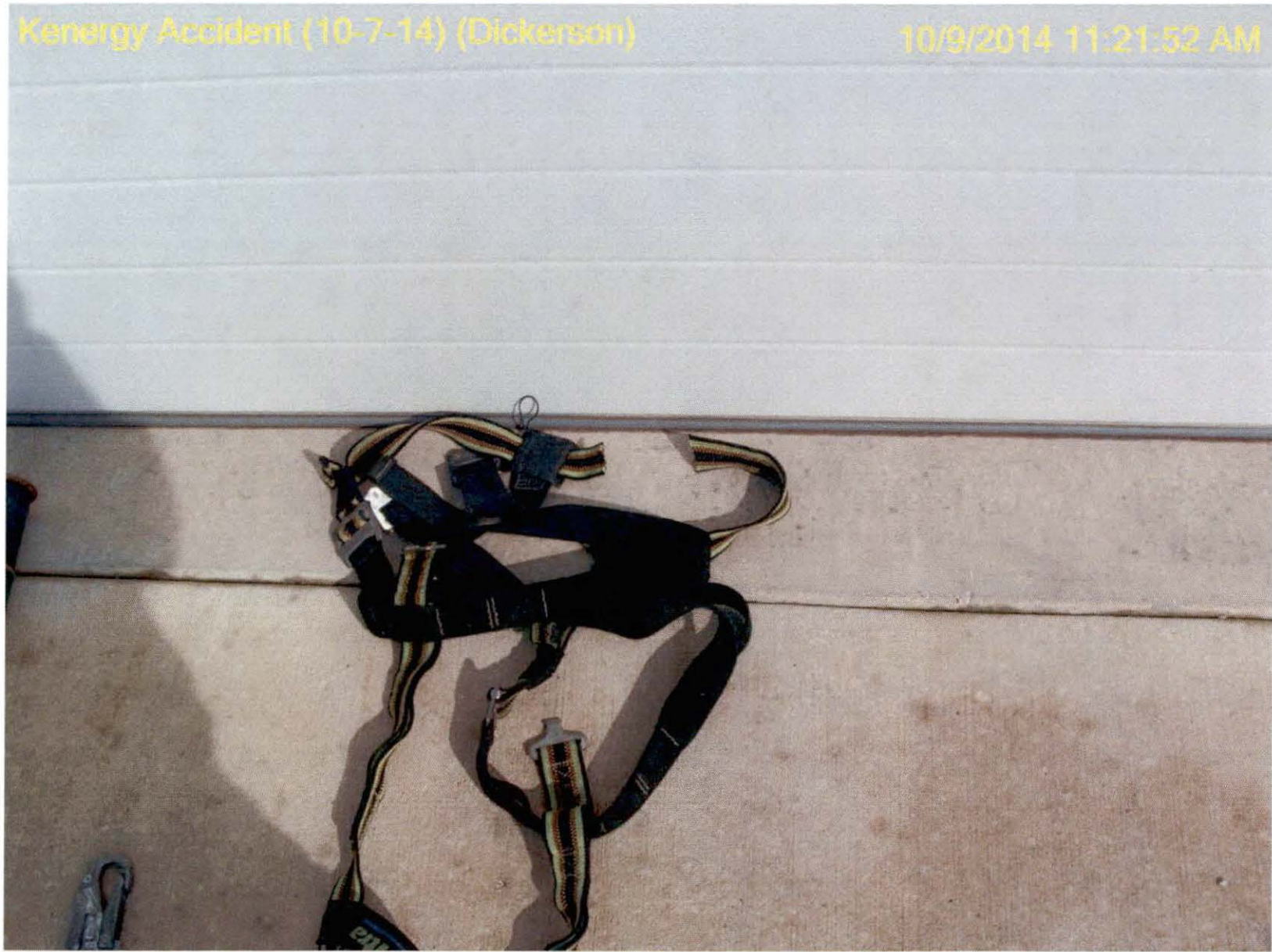
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10/9/2014 11:21:18 AM



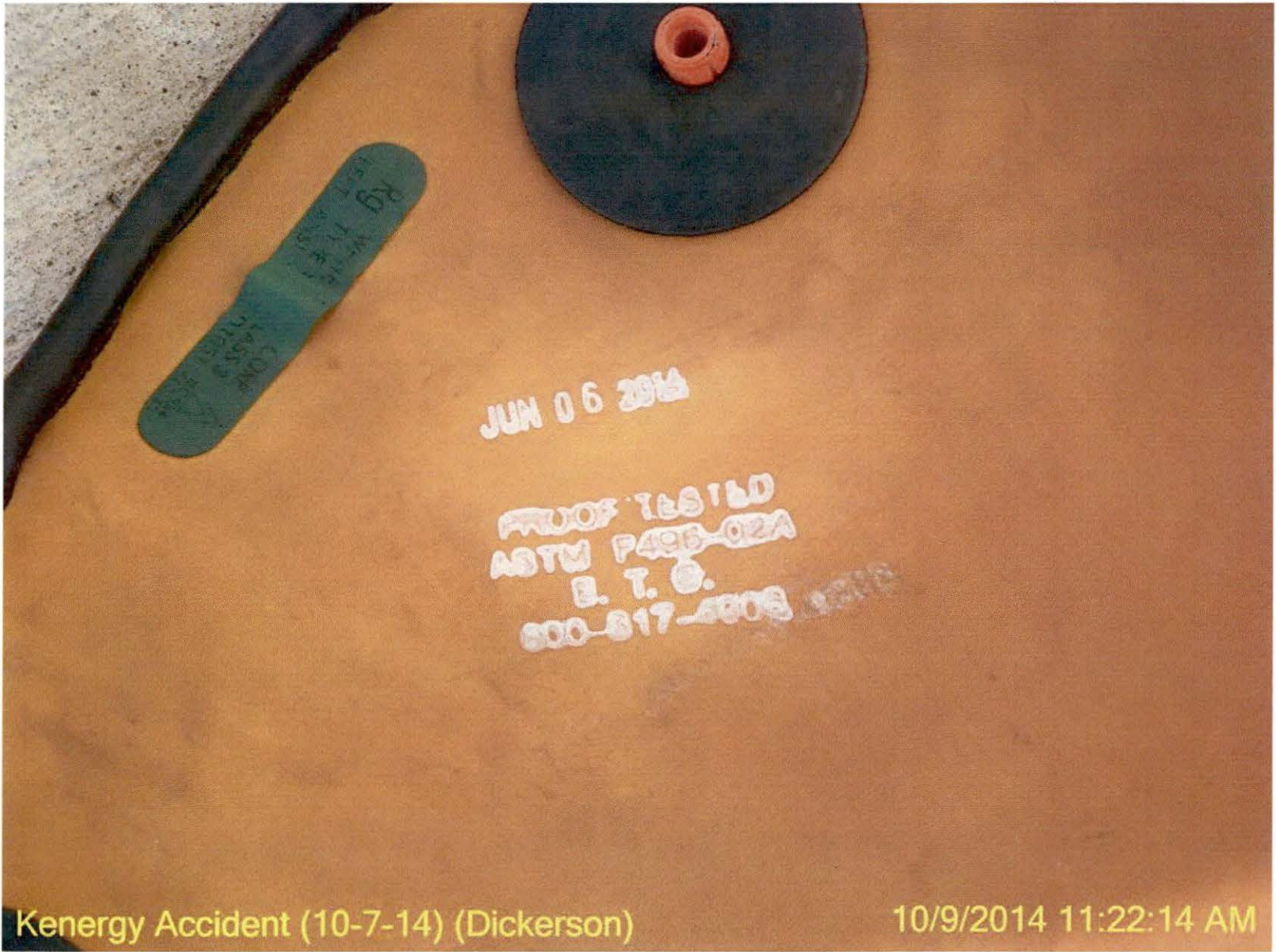
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10/9/2014 11:21:52 AM



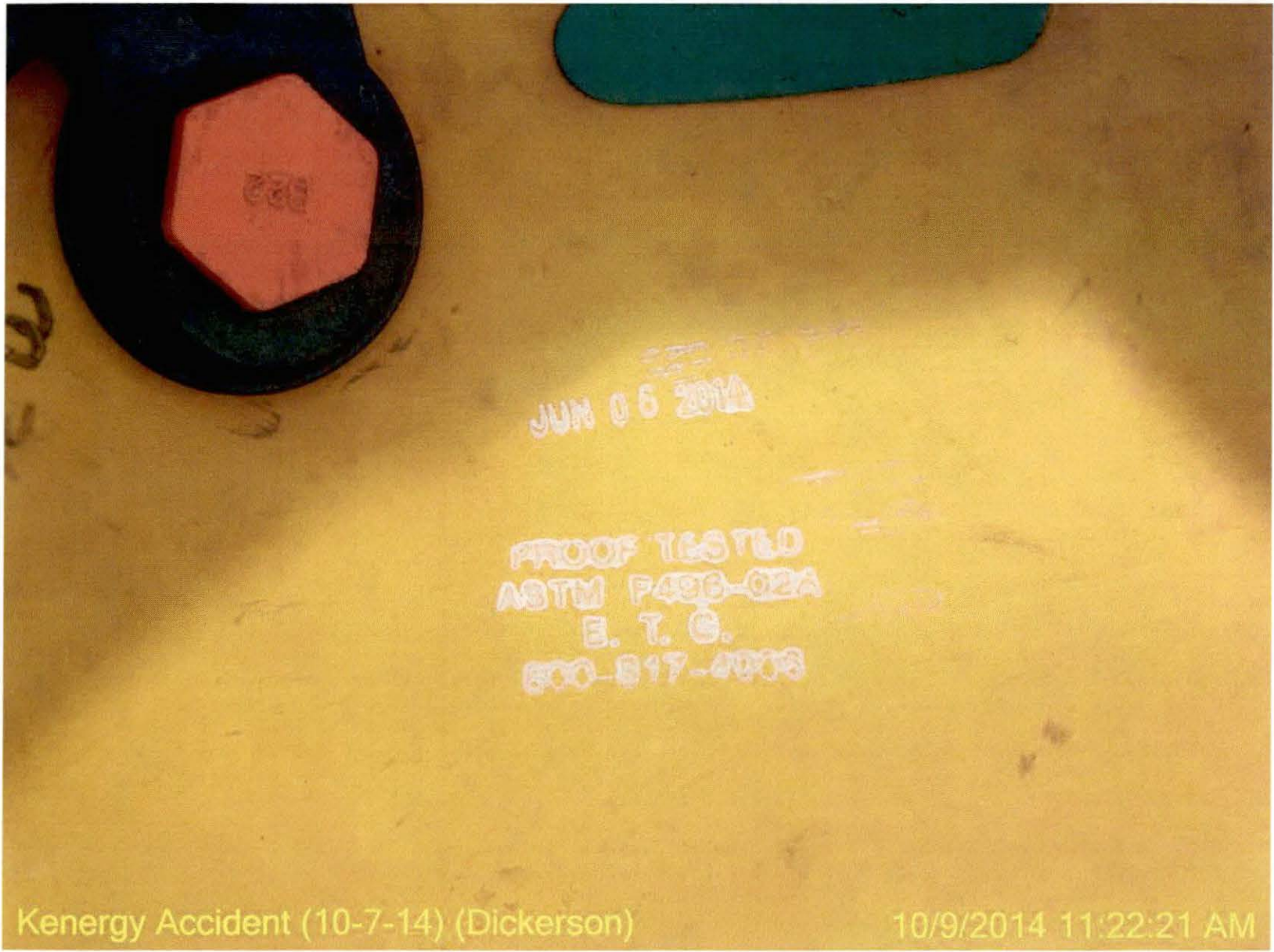


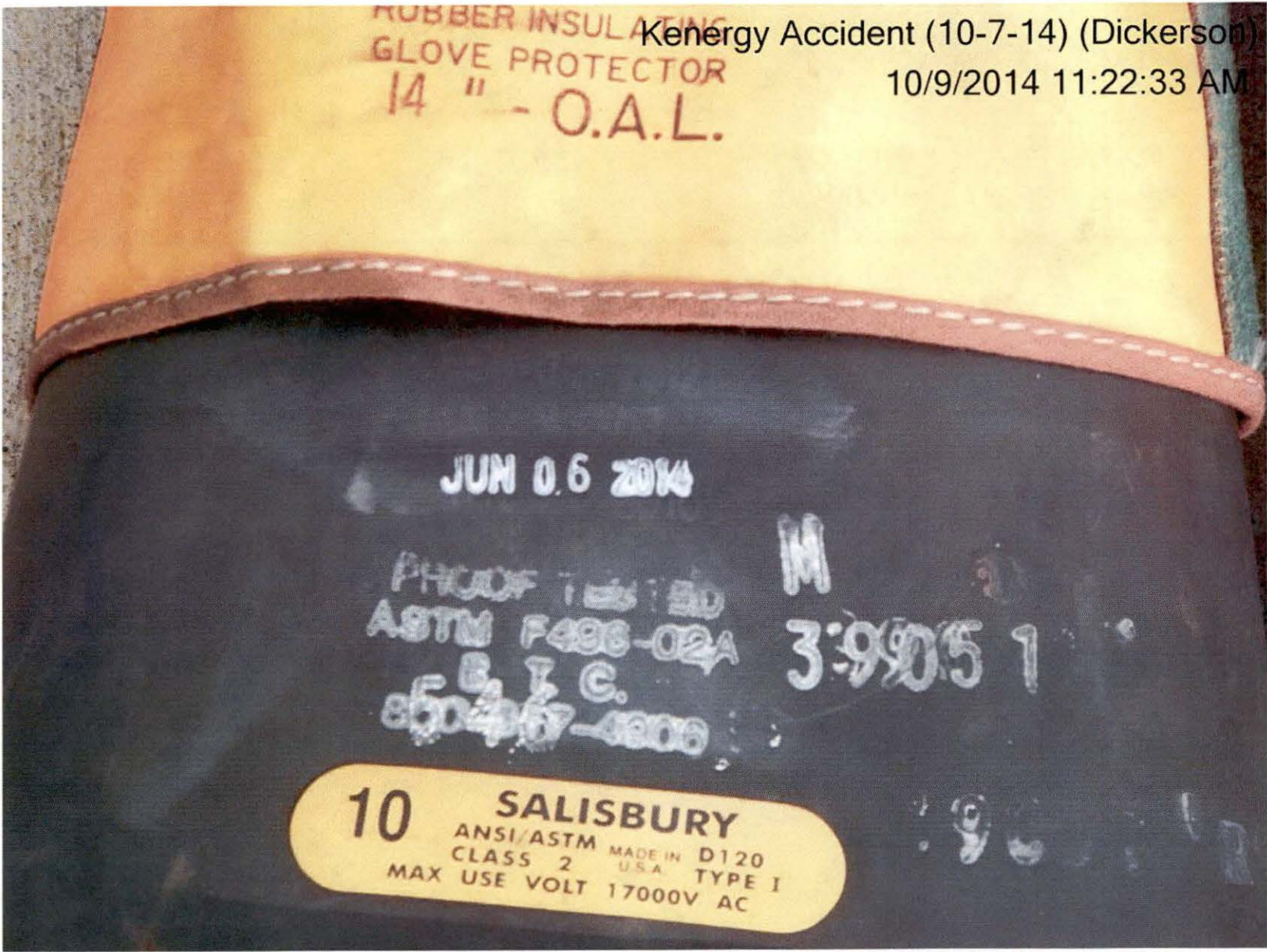
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Kenergy Accident (10-7-14) (Dickerson)



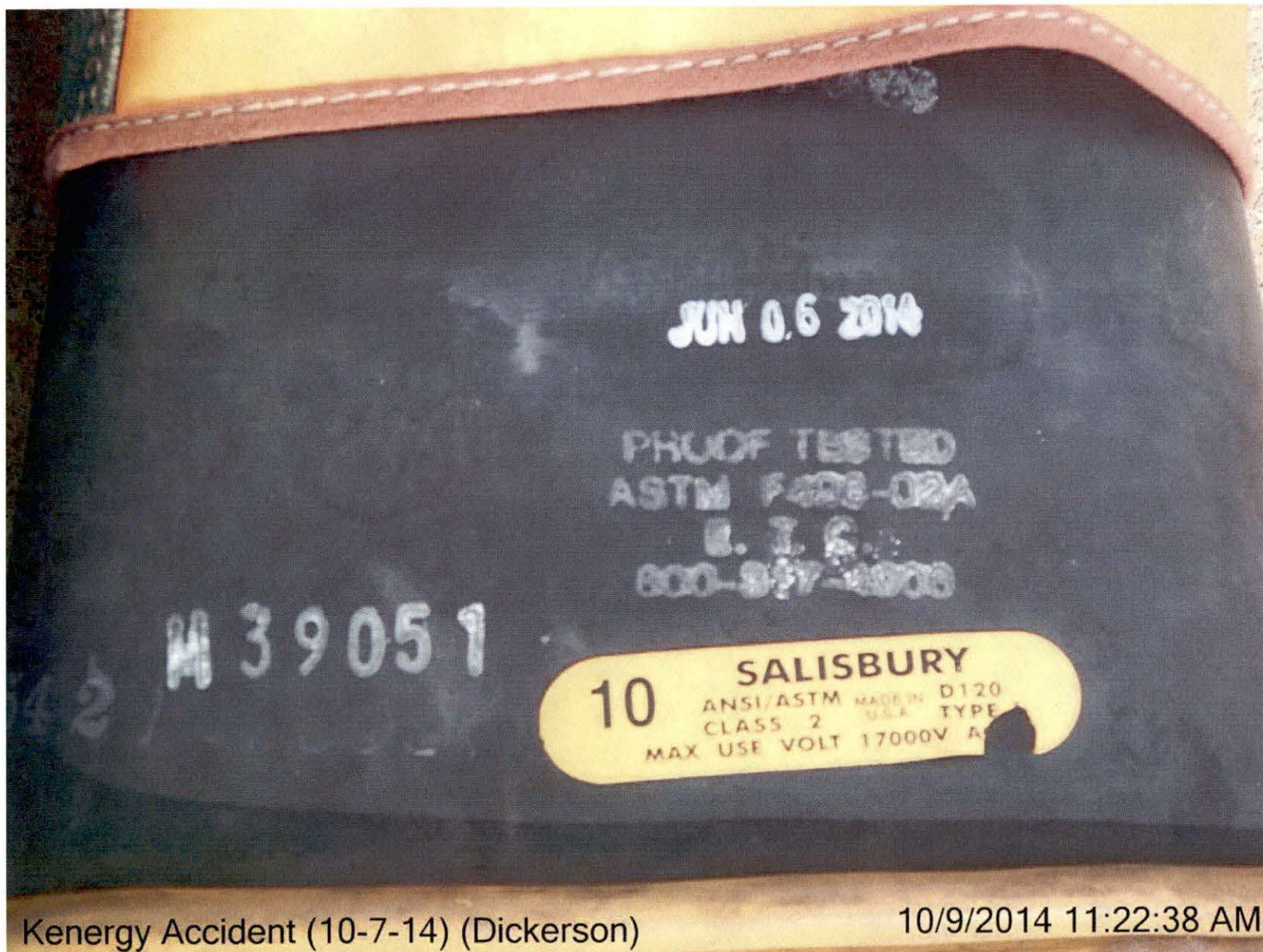
Kenergy Accident (10-7-14) (Dickerson)

10/9/2014 11:22:14 AM





Kenergy Accident (10-7-14) (Dickerson)
10/9/2014 11:22:33 AM



Kenergy Accident (10-7-14) (Dickerson)

10/9/2014 11:22:38 AM

Kenergy Accident (10-7-14) (Dickerson)

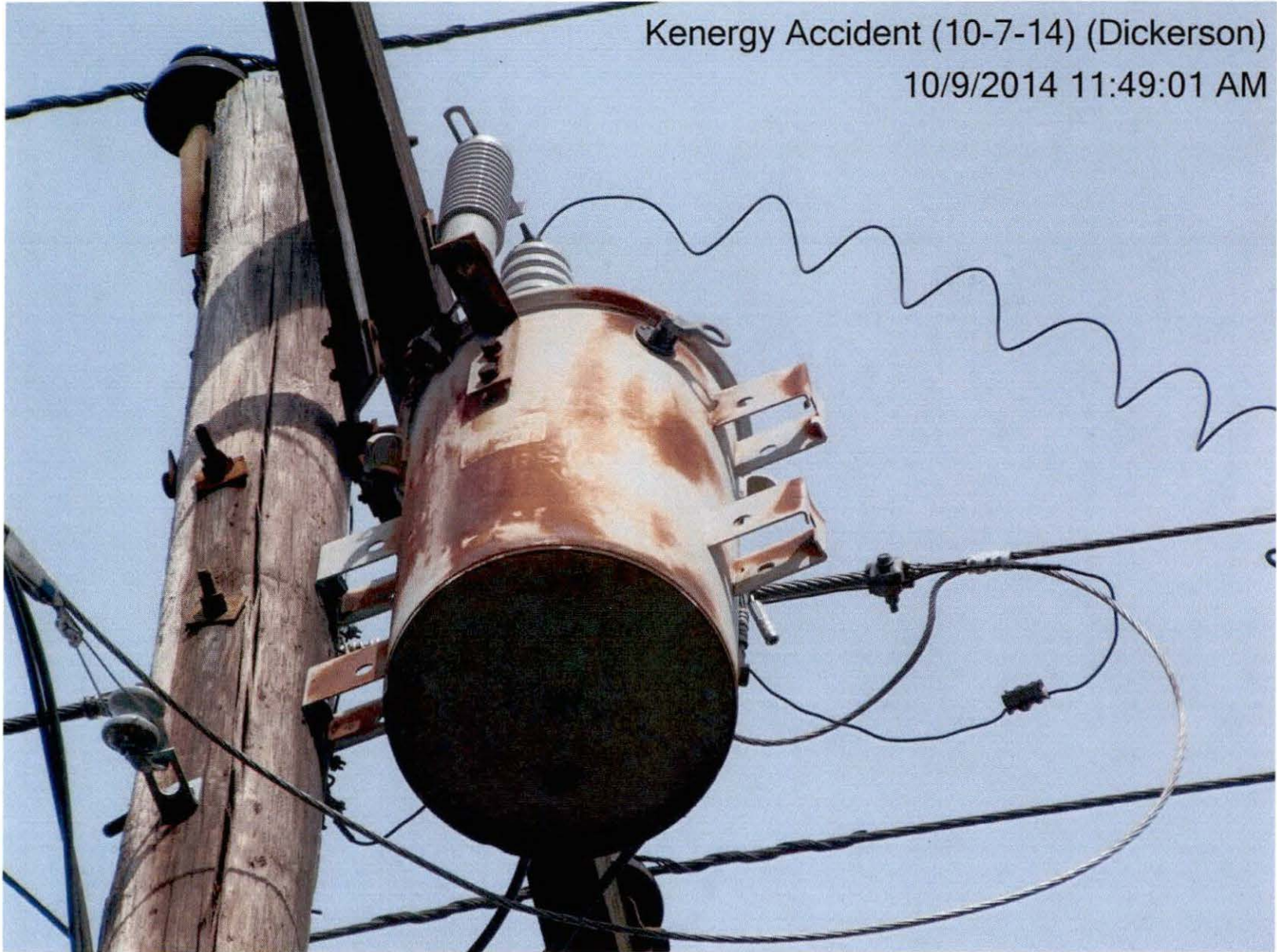
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Kenergy Accident (10-7-14) (Dickerson)

10/9/2014 11:23:35 AM





Kenergy Accident (10-7-14) (Dickerson)
10/9/2014 11:49:01 AM



Kenergy Accident (10-7-14) (Dickerson)
10/9/2014 11:49:11 AM

Kenergy Accident (10-7-14) (Dickerson)

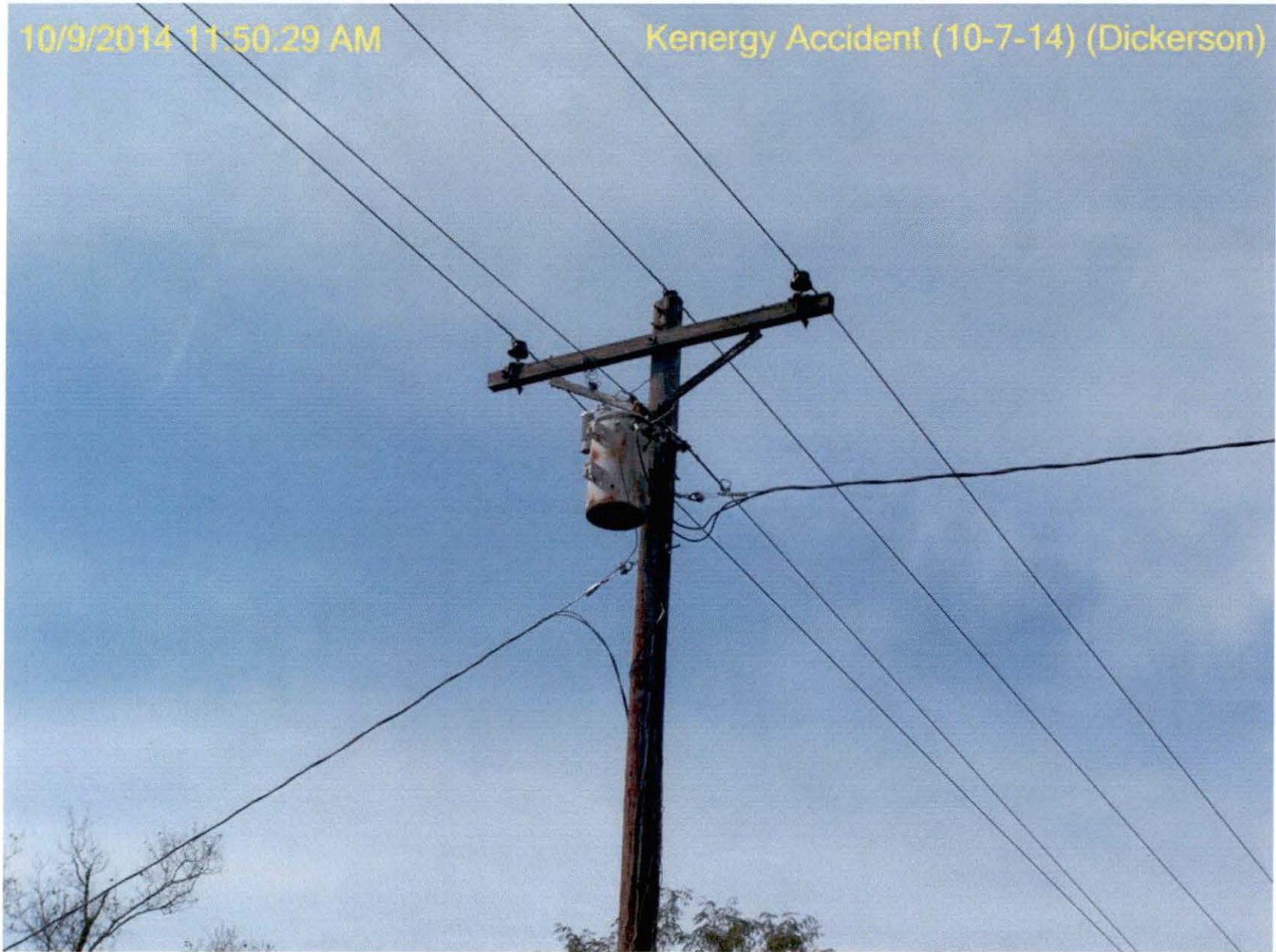
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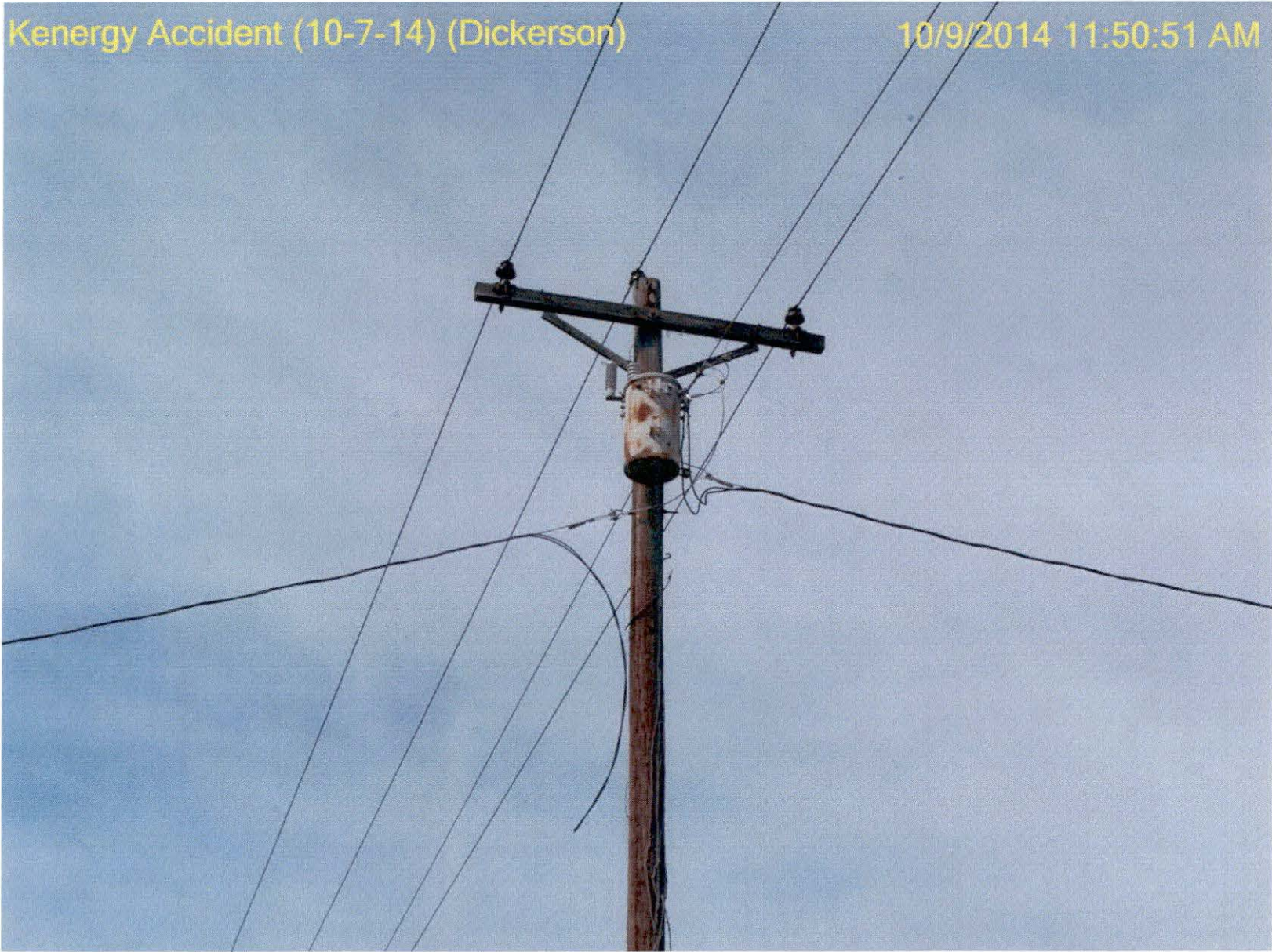
10/9/2014 11:50:29 AM

Kenergy Accident (10-7-14) (Dickerson)



Kenergy Accident (10-7-14) (Dickerson)

10/9/2014 11:50:51 AM





Kenergy Accident (10-7-14) (Dickerson)

10/9/2014 11:51:15 AM



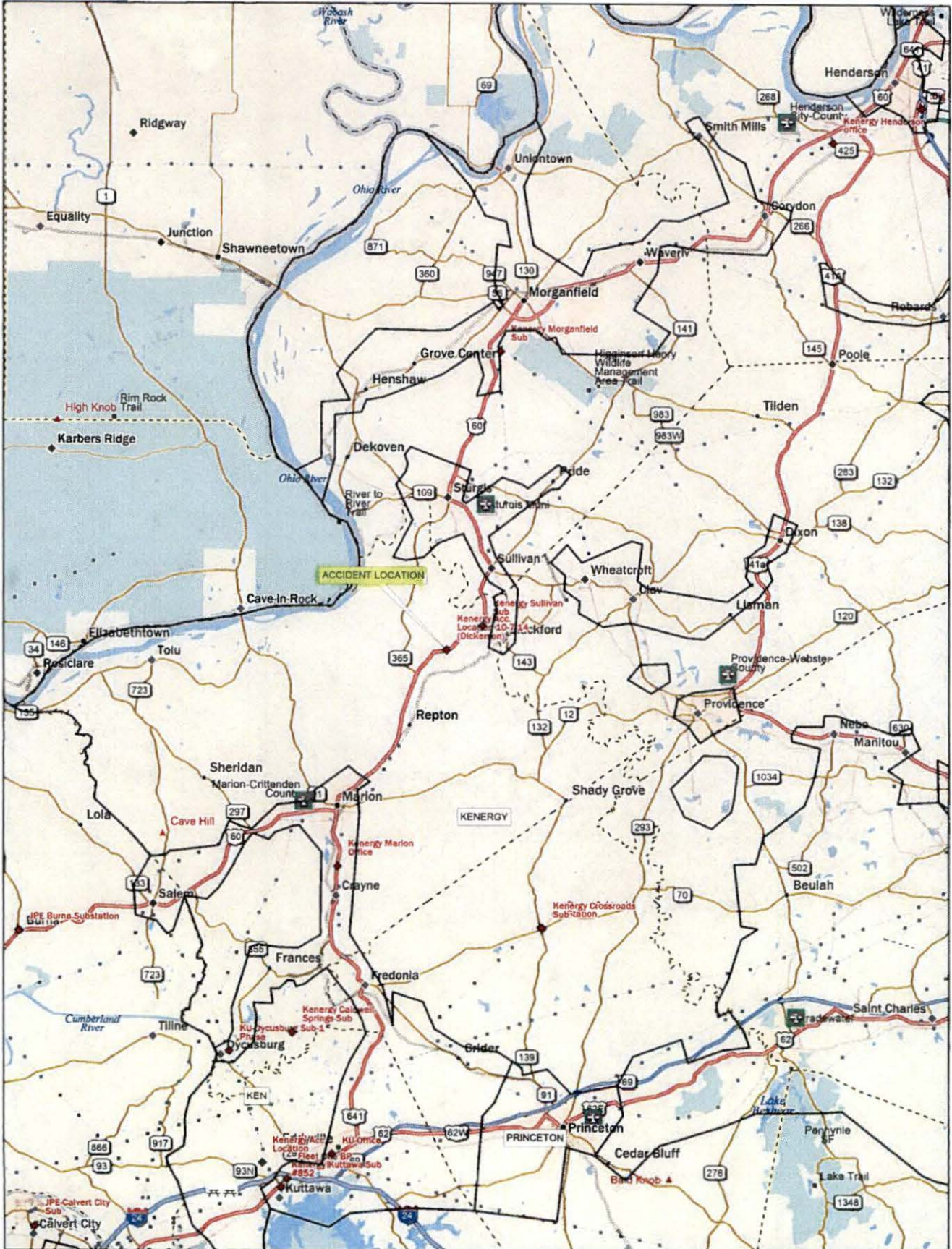
10/9/2014 11:52:49 AM

Kenergy Accident (10-7-14) (Dickerson)



Attachment D

KPSC Map of Accident Site



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