



Ernie Fletcher
Governor

Mark David Goss
Chairman

LaJuana S. Wilcher, Secretary
Environmental and Public
Protection Cabinet

Commonwealth of Kentucky
Public Service Commission
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Frankfort, Kentucky 40602-0615
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Teresa J. Hill
Vice Chairman

Christopher L. Lilly
Commissioner
Department of Public Protection

September 26, 2006

Kent Blake
Director - Rates & Regulatory
Kentucky Utilities Company
c/o Louisville Gas & Electric Co.
P. O. Box 32010
Louisville, KY 40232-2010

RE: Case No. 2006-00348

We enclose one attested copy of the Commission's Order in the above case.

Sincerely,

A handwritten signature in black ink, appearing to read "Beth O'Donnell".

Beth O'Donnell
Executive Director

BOD/sh
Enclosure

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

KENTUCKY UTILITIES COMPANY)
_____)) CASE NO. 2006-00348
ALLEGED FAILURE TO COMPLY)
WITH KRS 278.042)

O R D E R

Kentucky Utilities Company ("KU") is a Kentucky corporation engaged in the generation, transmission, and distribution of electricity to the public for compensation for lights, heat, power, and other uses and is a utility subject to Commission jurisdiction.¹

Commission Staff submitted to the Commission an Incident Investigation Report ("Incident Report") dated July 12, 2006, attached hereto as Appendix A, which alleges that on June 20, 2006 James Waters was an employee of QSC Painting, Inc., a contractor hired by KU to perform maintenance work on KU's electric plant and facilities. Mr. Waters was painting the steel structure at the Lexington Plant Substation #028 at 745 North Limestone Street, Lexington, Kentucky, an area of the substation that was still energized. He apparently lost his balance and fell, making contact with an energized 69 kV disconnect. Mr. Waters suffered burns to his hands and ankles and was hospitalized.

¹ KRS 278.010.

KRS 278.042 requires that an electric utility construct and maintain its plant and facilities in accordance with the most recent edition of the National Electrical Safety Code, which is the 2002 Edition ("NESC"). The Staff's Incident Report notes one probable violation of KRS 278.042, which is NESC Section 42, Rule 420.C.4, by the failure of the employees who work on or in the vicinity of energized lines to consider all of the effects of their actions and to take into account their own safety, the safety of other employees, the property of others, and the public in general.

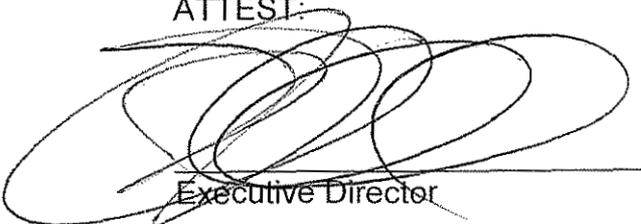
The Commission, on its own motion, HEREBY ORDERS that:

1. KU shall submit to the Commission, within 20 days of the date of this Order, a written response to the allegations contained in the Incident Report.
2. KU shall appear on November 16, 2006 at 1:30 p.m., Eastern Standard Time, in Hearing Room 1 of the Commission's offices at 211 Sower Boulevard, Frankfort, Kentucky to present evidence concerning the incident which is the subject of the Incident Report, specifically the one alleged violation of KRS 278.042 and NESC Rule 420.C.4, and to show cause, if any it can, why it should not be subject to the penalties of KRS 278.990 for the one probable violation of the aforementioned statute.
3. The official record of this proceeding shall be by video, unless otherwise requested by KU.
4. The Incident Report dated July 12, 2006 is hereby made a part of the record in this case.
5. Any request by KU for an informal conference with the Commission Staff shall be set forth in writing and filed with the Commission within 20 days of the date of this Order.

Done at Frankfort, Kentucky, this 26th day of September, 2006.

By the Commission

ATTEST:

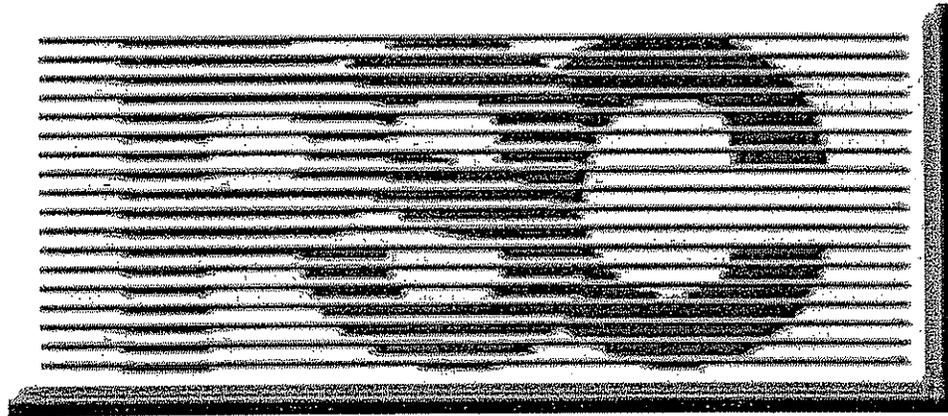


Executive Director

Case No. 2006-00348

APPENDIX A

APPENDIX TO AN ORDER OF THE KENTUCKY PUBLIC SERVICE
COMMISSION IN CASE NO. 2006-00348 DATED September 26, 2006.



INCIDENT INVESTIGATION ~ Staff Report

Report Date ~ July 12, 2006

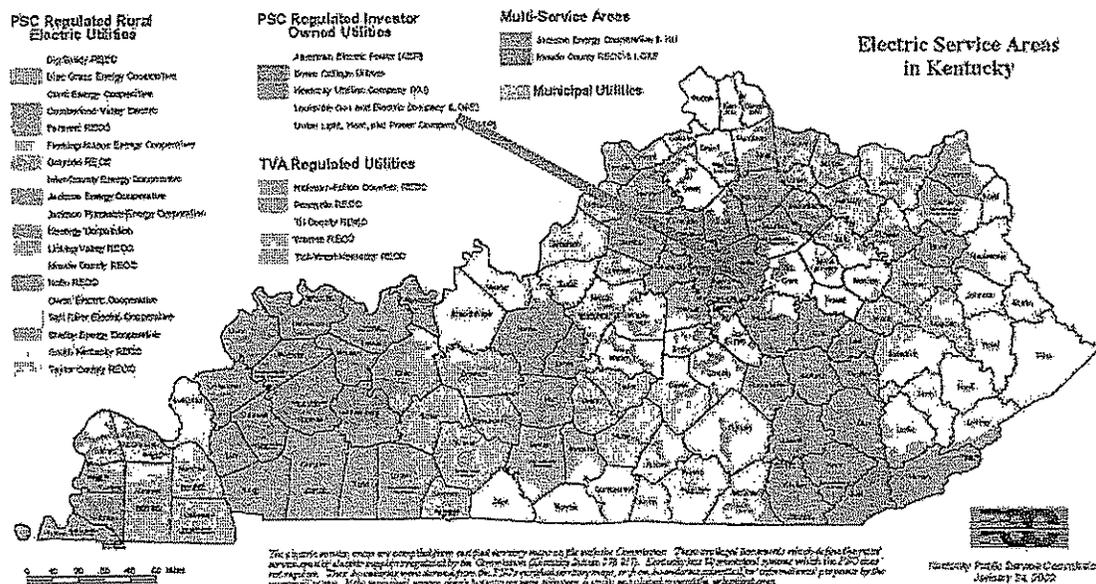
Incident Date ~ June 20, 2006

Serving Utility ~ Kentucky Utilities

Incident Location ~ Lexington, Kentucky

Victim ~ James Waters

PSC Lead Investigator ~ Steve Kingsolver





Kentucky Public Service Commission

Electric Utility Personal Injury Incident Report

Utility: Kentucky Utilities Company (KU)

Reported By: Ken Sheridan, Manager, Safety and Technical Training.

Incident Occurred: June 20, 2006 Approximately 8:02AM

Utility Notified: June 20, 2006 Approximately 8:02AM

PSC Notified: June 20, 2006 Approximately 9:55AM

PSC Investigated: June 20, 2006 Approximately 11:00AM

Report Received: June 27, 2006

Incident Location: Lexington Plant Substation #028
745 North Limestone
Lexington, Kentucky 40508

Incident Description: I was notified by Ken Sheridan, Manager, Safety and Technical Training, that an accident had occurred at Lexington Plant Substation #028, 745 North Limestone, Lexington, Kentucky. A contract employee, James Waters, QSC Painting Inc., was painting the steel structure in the substation. Sections of the station and equipment had been de-energized, but the location where the victim was working at the time of the accident was still energized. Evidence suggests that the victim was walking on the steel structure and lost his balance and fell making contact with an energized disconnect. The voltage that the victim made contact with was 69kV (Transmission Voltage). Neither of the victims co-workers nor a KU employee at the site saw the actual contact but did hear the electrical arc and did witness the victim falling. On the day of the accident the victim could not remember what caused the arc or what caused him to fall.

<u>Victim:</u>	<u>Name:</u>	<u>Address:</u>	<u>Employer:</u>
	James Waters	140 Tecumseh Street Pittsburgh, Pa. 15207	QSC Painting Inc.
	<u>Age:</u>		
	Unknown		
	<u>Injuries:</u>		
	Unknown at the time of this report.		

Persons at Accident Scene at Time of Accident:

<u>Name:</u>	<u>Address:</u>	<u>Employer:</u>
Mike Healy, Foreman	5110 Castle Drive Pittsburgh, PA. 15236	QSC Painting Inc
Vince Nertavich	622 Hartman Ave. Temple, PA. 19560	QSC Painting Inc.
Rodger Best	43 Simpson Ave. Moundsville, PA. 26041	QSC Painting Inc.
Will Merryman	1284 South Walnut St. Monaca, PA. 15061	QSC Painting Inc
James McKinley	Unknown	KU Co.
Mike Sowder	Unknown	KU Co.

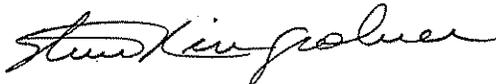
Notes: Persons above may have seen part of the accident, but it appears that no one saw what lead to the victim making contact with the energized equipment.

<u>Information From:</u>	<u>Name:</u>	<u>Position:</u>	<u>Employer:</u>
	Keith McBride	Fire and Security Investigator	Eon-US

Probable Violations: KAR 278.042 Service Adequacy and Safety Standards

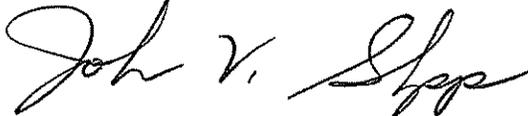
1.) NESC Section 42, 420, C, 4 Safeguarding Oneself and Others

Investigated By: _____ **Name:** Steve Kingsolver **Company:** PSC
PSC Engineering Staff

Signed:  7-28-06

Date:

Reviewed By: _____ **Name:** John Shupp **Company:** PSC
Manager, PSC Electric Branch

Signed: 

Date: 8/9/06

Attachments: A. Utility Incident Report
B. Text of Cited Violations
C. KPSC Photographs of Incident Site

Attachment A

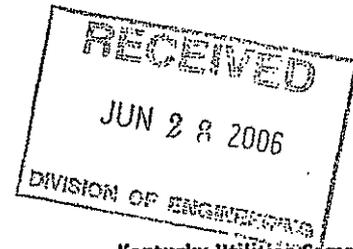
Utility Incident Report



RECEIVED

JUN 27 2006

PUBLIC SERVICE
COMMISSION



Mr. John Shupp
Manager Electrical Branch
Division of Engineering
Kentucky Public Service Commission
211 Sower Blvd.
P.O. Box 615
Frankfort, KY 40602

Kentucky Utilities Company
Corporate Law
220 W. Main Street
Louisville, Kentucky 40202
www.eon-us.com

Jim Dimas
Senior Corporate Attorney
T 502-627-3712
F 502-627-3367
jim.dimas@eon-us.com

June 27, 2006

Re: Contractor Injured/Admitted to Hospital
Lexington Plant Substation #028
745 North Limestone
Lexington, Kentucky 40508

Dear Mr. Shupp:

I am forwarding the attached Investigation Report prepared by Keith McBride regarding the incident that occurred at the Lexington Plant Substation #028 in Lexington, Kentucky. This report is being submitted as required by Section 26 of 807 KAR 5:006.

If you need additional information concerning this incident, please contact me at (502) 627-3712 so I can direct your request to the appropriate person.

Sincerely,

Jim Dimas

Attachments

KPSC External / INVESTIGATION REPORT

Contractor Received Burns/Admitted to Hospital

Type of Report

06-E-023-KU

Report Number

Keith McBride

Investigator

June 20, 2006

Date of Incident

Location: **Lexington Plant Substation #028**
 745 North Limestone
 Lexington, Kentucky 40508

Incident / Notification

On June 20, 2006 at 8:02 a.m., Kentucky Utilities ("KU") Distribution Control received notification of a substation lockout. During a second notification shortly thereafter, KU Distribution Control learned that a painting contractor working inside the Lexington Plant Substation #028 had received burns and had fallen from the steel structure of the substation. Ken Sheridan, Manager, Safety and Technical Training, notified the Kentucky Public Service Commission of the incident.

Investigation

On June 20, 2006 at 8:02 a.m., KU Distribution Control received notification of a substation lockout. Preliminary reports were that a painting contractor working inside the Lexington Plant Substation #028 had contacted one of the 69KV phases feeding the station. The painting contractor was taken to University of Kentucky Medical Center via Lexington EMS, where he was later admitted to the burn unit.

Preliminary investigation of the incident scene found that Mr. James Waters, Painter for QSC Painting Inc., was painting an area of the steel structure in the area of the A phase 69KV buss system, directly over a deenergized breaker. Mr. Waters was inside the steel girders painting the steel structure using large washing mitts that he was wearing on both hands to apply the paint. Mr. Waters would dip the mitts into a bucket filled with paint and then paint the steel in a smearing motion.

Burn marks and flash burns that were visible on the steel and on the top disconnect bushing, which was energized during the painting, suggest that there was an arc flash from the end of the top energized 69KV buss disconnect to the steel. Interviews of fellow co-workers found that there were no actual witnesses to the

cause of the flash; however, several of Mr. Waters' co-workers and one KU employee witnessed Mr. Waters fall after they heard the electrical arc.

It was also detected that the bottom bushing of the 69KV disconnect appeared to be damaged after the incident. It was later determined that when Mr. Waters landed on the breaker lead, the weight and force of his fall had bent and damaged the steel channel iron holding the disconnect.

Mr. Rodger Best, Painter for QSC, was working nearest to Mr. Waters prior to the incident. Mr. Best stated that he did not see what caused the flash. Mr. Best stated that he heard and felt the arc flash. Mr. Best stated that when he turned, he saw Mr. Waters falling. Mr. Best stated that he saw Mr. Waters hit one of the conductor leads going into the breaker below. Mr. Best stated that when Mr. Waters hit one of the breaker leads, he flipped backwards and then fell to the ground, landing on his back.

Mr. Mike Healy, Foreman for QSC Painting, stated that he was on the ground looking away from where the incident occurred. Mr. Healy stated that he also heard the arc flash but did not see what caused it. He also stated that he saw Mr. Waters fall, hit the breaker lead, and fall to the ground.

Mr. Vince Nertavich, Painter QSC Painting, stated that he was on the ground painting the steel with a brush. Mr. Nertavich stated that he did not see what caused the arc flash. Mr. Nertavich stated that when he heard the arc he turned and saw that Mr. Waters was falling. Mr. Nertavich stated that Mr. Waters hit the breaker lead and then fell to the ground.

Mr. Will Merryman, Painter QSC Painting, stated that he was on the ground and was walking towards Mr. Nertavich when he heard the arc. Mr. Merryman stated that he turned and saw Mr. Waters falling. Mr. Merryman stated that he saw Mr. Waters hit and straddle the breaker lead as he was falling. Mr. Merryman stated that after Mr. Waters hit the breaker lead, Mr. Waters fell backwards and hit the ground by landing on his back.

Mr. Mike Sowder, KU Substation Technician A, stated that he was out in the lot loading equipment. Mr. Sowder stated that he also heard the arc, but did not see what caused it. Mr. Sowder stated that when he turned to see what happened, Mr. Waters was already falling. Mr. Sowder saw Mr. Waters hit the breaker lead then fall to the ground.

On the day of the incident several QSC employees and KU employees visited Mr. Waters while he was in the emergency room at the UK Medical Center. Mr. Waters stated to Ralph Cinnamon, KU Group Leader Substation Control and

Maintenance, that he remembered finishing painting an area, unbuckling his positioning belt, turning around and walking down the steel. Mr. Waters stated to Mr. Cinnamon that he did not remember what caused the arc or how he fell.

Secondary Investigation

On June 21, 2006 at 7:00 a.m. the next morning, a secondary investigation was held. KU employees from the Substation Department initiated an outage to the Lexington Plant Substation for the purposes of replacing the damaged 69KV disconnect. While this outage was in place, I inspected the top bushing on the 69KV disconnect, and the area of the steel structure where this incident took place.

Inspection of the top bushing of the 69KV disconnect, which was energized the day of the incident, revealed fresh paint at the end of the bushing on the disconnect end and on the conductor. There were flash burns from the end of the bushing to the steel. There were also two burn marks on the steel just to the right of the 69KV disconnect, where Mr. Waters would have been standing. There was also what appeared to be an excess amount of smeared paint on the steel where Mr. Waters had been working.

Based on the facts presently known to me, it is the opinion of this investigator that Mr. Waters, while walking down the steel structure, for an unknown reason lost his balance or tripped. This caused Mr. Waters to fall towards the energized disconnect. It appears that Mr. Waters reached out with his left hand wearing a paint soaked mitt in an attempt to gain control while standing on the steel structure and also trying to hold on with his right hand that was also covered with a paint soaked mitt. Evidence of fresh paint on the energized end of the 69KV bushing and burns to his hands suggest that Mr. Waters inadvertently contacted the energized disconnect. The excess paint and smear on the steel suggest that this is where he was trying to hold on with his right hand. The burn marks on the steel and burns to his ankles suggest that this is where Mr. Waters was standing when he contacted the energized 69KV disconnect.

QSC Painting Inc.
1100 Sawmill Run Boulevard
Pittsburgh, PA 15226
(412) 431-7344

James Waters – injured QSC Painting Inc. employee
140 Tecumseh Street
Pittsburgh, PA 15207

Mike Healy – QSC Foreman

5110 Caste Drive
Pittsburg, PA 15236

Rodger best – QSC Painter
43 Simpson Ave.
Moundsville, PA 26041

Vince Nertavich – QSC Painter
622 Hartman Ave.
Temple, PA 19560

Will Merryman – QSC Painter
1284 South Walnut Street
Monaca, PA 15061

Mike Sowder – KU / Substation Tech A

Ralph Cinnamon – KU / Group Leader

DATE OF REPORT: JUNE 27, 2006
END OF REPORT



an **E.ON** company

Mr. John Shupp
Kentucky Public Service Commission
211 Sower Blvd.
P.O. Box 615
Frankfort, KY 40602

July 7, 2006

Re: James Waters/Contractor Injured
Lexington Plant Substation #028
Lexington, Kentucky 40508

RECEIVED

JUL 7 2006

PUBLIC SERVICE
COMMISSION

Kentucky Utilities Company
Legal Department
220 W. Main Street
Louisville, Kentucky 40202
www.eon-us.com

Jim Dimas
Senior Corporate Attorney
T 502-627-3712
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jim.dimas@eon-us.com

Dear Mr. Shupp:

In follow-up to the Investigation Report that was filed by Kentucky Utilities Company on June 27, 2006 concerning the injury to James Waters in Lexington, Kentucky, enclosed are the additional items that were requested by the KPSC:

1. Copy of the latest Quarterly Substation Inspection Report;
2. Copy of Events Detail Report for Lexington Substation generated by Outage Management System (OMS);
3. Copy of Transmission Failure Report;
4. Copies of Contractor Substation Entry Assessments completed by QSC employees; and
5. Complete copy set of scene photographs taken by KU of the scene on June 20, 2006.

It is our belief that the KPSC now has all documents that have been requested from KU concerning this incident. If you need additional information concerning this incident, please contact me at (502) 627-3712.

Sincerely,

Jim Dimas

Attachments

cc: Keith McBride

QUARTERLY SUBSTATION INSPECTION REPORT

NUMBER 128 SUBSTATION NAME LNK HOTEL PLANT

DATE OF INSPECTION	<u>3/2/66</u>	<u>UIC</u>	<u>CC</u>
DATE CREATION AND EXP.	<u>OK</u>	<u>OK</u>	
RUTS IN LOT OR DRIVEWAY	<u>NO</u>	<u>NO</u>	
DRAINAGE	<u>OK</u>	<u>OK</u>	
GRAVEL	<u>OK</u>	<u>OK</u>	
TRASH OR MATERIAL IN LOT	<u>NO</u>	<u>NO</u>	
WEEDS	<u>NO</u>	<u>NO</u>	
FENCE OR BARRIERS W/EF	<u>OK</u>	<u>OK</u>	
FENCE COLLING	<u>OK</u>	<u>OK</u>	
DANGER SIGNS	<u>OK</u>	<u>OK</u>	
SWITCH BENCH AND CONTAINERS	<u>OK</u>	<u>OK</u>	
STRUCTURE	<u>OK</u>	<u>OK</u>	
LOCKS	<u>NO</u>	<u>NO</u>	
INSULATION AND AS BIL	<u>OK</u>	<u>OK</u>	
FENCING, CLOS	<u>OK</u>	<u>OK</u>	
BUILDINGS	<u>—</u>	<u>—</u>	

INSPECTED BY:	<u>UB</u>	<u>CB</u>	
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COMMENTS:

Priority ID	Transformer	Device Code	Inc #	Begin Time	Est Restored Time	Restored Time	Duration	Cust Out	DTS #
		chr465793	389165	6/20/2006 8:02:44 AM		6/20/2006 9:12:33 AM	69.82	900	
Company	OnCenter Local Area								
		Substation							
KU	LEXOC LEXINGTON		LEXINGTON PLANT	0004	472 LOCUST AVE	--			N
System	Type	Action	Cause	Failure Device	Interrupt Device	Weather	Previous Event	Subsequent Event	
Overhead	Transmission Substation	Completed	Company Contract Crew	Other/Unknown	Station Breaker	Calm/Mild			
<u>Customer Case Notes</u>									
<u>Dispatcher Info Notes</u>									
see comments on inc 389169									

Step Number	Time of Operation	Time Reported	Crew ID	Crew Contact	Mobile Number	Description of Event Action
1	6/20/2006 8:06:11 AM	6/20/2006 8:06:11 AM				Event given Probable Service Outage status
2	6/20/2006 8:12:38 AM	6/20/2006 8:12:38 AM				Outage merged upstream to device chr465793
3	6/20/2006 8:12:38 AM	6/20/2006 8:12:38 AM				Event given Probable Device Outage status
4	6/20/2006 8:15:37 AM	6/20/2006 8:15:37 AM				Device chr465793 changed to state OPEN
5	6/20/2006 8:15:37 AM	6/20/2006 8:15:37 AM				Event given Real Device Outage status
6	6/20/2006 8:29:38 AM	6/20/2006 8:29:38 AM				Outage merged upstream to device chr465793
7	6/20/2006 8:32:30 AM	6/20/2006 8:32:30 AM		Jim Endes		Crew 5586 dispatched
8	6/20/2006 8:48:55 AM	6/20/2006 8:48:55 AM		Jim Endes		Crew 5586 dispatched
9	6/20/2006 8:48:55 AM	6/20/2006 8:48:55 AM		Jim Endes		Crew 5586 dispatched
10	6/20/2006 8:48:55 AM	6/20/2006 8:48:55 AM				Outage merged upstream to device chr465793
11	6/20/2006 9:07:37 AM	6/20/2006 9:07:37 AM		Jim Endes		Crew 5586 dispatched
12	6/20/2006 9:21:33 AM	6/20/2006 9:21:33 AM				Device chr465793 changed to state CLOSED
13	6/20/2006 9:41:57 AM	6/20/2006 9:41:57 AM		Jim Endes		Crew 5586 released

Premise ID	Transformer	Device Code	Inc #	Begin Time	Est Restored Time	Restored Time	Duration	Cust Out	DTS #
		chr465824	389166	6/20/2006 8:04:00 AM		6/20/2006 9:12:14 AM	68.23	313	
Company	OpCenter	Local Area	Substation	Circuit	Outage Location	Job Code	Trouble Code	Excluded from SAID/SALE?	
KU	LEXOC	LEXINGTON	LEXINGTON PLANT	0006	257 N LIMESTONE ST A	--	OUT-BANG,OUT	N	
System	Type	Action	Cause	Failure Device	Interrupt Device	Weather	Previous Event	Subsequent Event	
Overhead	Transmission Substation	Completed	Company Contract Crew	Other/Unknown	Station Breaker	Calm/Wind			

Customer Case Notes
Dispatcher Info Notes
see comments on line 389169

Step Number	Time of Operation	Time Reported	Crew ID	Crew Contact	Mobile Number	Description of Event Action
1	6/20/2006 8:06:20 AM	6/20/2006 8:06:20 AM				Event given Probable Service Outage status
2	6/20/2006 8:09:04 AM	6/20/2006 8:09:04 AM				Outage merged upstream to device chr465824
3	6/20/2006 8:15:56 AM	6/20/2006 8:15:56 AM				Device chr465824 changed to state OPEN
4	6/20/2006 8:15:56 AM	6/20/2006 8:15:56 AM				Event given Real Device Outage status
5	6/20/2006 8:32:40 AM	6/20/2006 8:32:40 AM	5586	Jim Endles		Crew 5586 assigned
6	6/20/2006 9:02:58 AM	6/20/2006 9:02:58 AM				Outage merged upstream to device chr465824
7	6/20/2006 9:22:14 AM	6/20/2006 9:22:14 AM				Device chr465824 changed to state CLOSED
8	6/20/2006 9:39:58 AM	6/20/2006 9:39:58 AM	5586	Jim Endles		Crew 5586 unassigned

Premise ID	Transformer	Device Code	Inc #	Begin Time	Est Restored Time	Restored Time	Duration	Cust Out	DTS #
		cbr465833	389168	6/20/2006 8:03:53 AM		6/20/2006 9:12:05 AM	68.20	1155	

Company	OnCenter	Local Area	Substation	Circuit	Outage Location	Job Code	Trouble Code	Excluded from SAID/SAIFI?
KU	LEXOC	LEXINGTON	LEXINGTON PLANT	0007	500 E SEVENTH ST	--	MEDC-E-OUT-BANG,MEDC-E-OUT,OUT-BANG,OUT	N

System	Type	Action	Cause	Failure Device	Interrupt Device	Weather	Previous Event	Subsequent Event
Overhead	Transmission Substation	Completed	Company Contract Crew	Other/Unknown	Station Breaker	Calm/Mild		

Customer Case Notes

Dispatcher Info Notes

see comments on inc 389169

Step Number	Time of Operation	Time Reported	Crew ID	Crew Contact	Mobile Number	Description of Event Action
1	6/20/2006 8:06:20 AM	6/20/2006 8:06:20 AM				Event given Probable Service Outage status
2	6/20/2006 8:11:06 AM	6/20/2006 8:11:06 AM				Outage merged upstream to device cbr465833
3	6/20/2006 8:14:04 AM	6/20/2006 8:14:05 AM				Device cbr465833 changed to state OPEN
4	6/20/2006 8:14:05 AM	6/20/2006 8:14:05 AM				Event given Real Device Outage status
5	6/20/2006 8:29:58 AM	6/20/2006 8:29:58 AM				Outage merged upstream to device cbr465833
6	6/20/2006 8:30:32 AM	6/20/2006 8:30:32 AM				Outage merged upstream to device cbr465833
7	6/20/2006 8:31:12 AM	6/20/2006 8:31:12 AM				Outage merged upstream to device cbr465833
8	6/20/2006 8:32:43 AM	6/20/2006 8:32:43 AM	5586	Jim Eades		Crew 5586 assigned
9	6/20/2006 8:45:20 AM	6/20/2006 8:45:20 AM				Outage merged upstream to device cbr465833
10	6/20/2006 9:02:42 AM	6/20/2006 9:02:42 AM				Outage merged upstream to device cbr465833
11	6/20/2006 9:22:05 AM	6/20/2006 9:22:06 AM				Device cbr465833 changed to state CLOSED
12	6/20/2006 9:41:23 AM	6/20/2006 9:41:23 AM	5586	Jim Eades		Crew 5586 unassigned

<u>Premise ID</u>	<u>Transformer</u>	<u>Device Code</u>	<u>Inc #</u>	<u>Begin Time</u>	<u>Est Restored Time</u>	<u>Restored Time</u>	<u>Duration</u>	<u>Cust Out</u>	<u>DTS#</u>
		chr465838	389169	6/20/2006 8:03:24 AM		6/20/2006 9:12:03 AM	68:55	470	
<u>Company</u>	<u>OnCenter</u>	<u>Local Area</u>	<u>Substation</u>	<u>Circuit</u>	<u>Outage Location</u>	<u>Job Code</u>	<u>Trouble Code</u>	<u>Excluded from SAID/SAIF?</u>	
KU	LEXOC	LEXINGTON	LEXINGTON PLANT	0003	537 TONER ST	--	MEDEC-OUT,OUT-BANG,OUT	N	

<u>System</u>	<u>Type</u>	<u>Action</u>	<u>Cause</u>	<u>Failure Device</u>	<u>Interrupt Device</u>	<u>Weather</u>	<u>Previous Event</u>	<u>Subsequent Event</u>
Overhead	Transmission Substation	Completed	Company Contract Crew	Other/Unknown	Station Breaker	Calm/Mild		

Customer Case Notes

Dispatcher Info Notes
 painting contractor came into contact with steel inside station and caused bus fuses to open and station outage/ closed breakers to restore.

<u>Step Number</u>	<u>Time of Operation</u>	<u>Time Reported</u>	<u>Crew ID</u>	<u>Crew Contact</u>	<u>Mobile Number</u>	<u>Description of Event Action</u>
1	6/20/2006 8:06:51 AM	6/20/2006 8:06:51 AM				Event given Probable Service Outage status
2	6/20/2006 8:12:07 AM	6/20/2006 8:12:07 AM				Outage merged upstream to device chr465838
3	6/20/2006 8:12:07 AM	6/20/2006 8:12:07 AM				Event given Probable Device Outage status
4	6/20/2006 8:16:21 AM	6/20/2006 8:16:21 AM				Device chr465838 changed to state OPEN
5	6/20/2006 8:16:21 AM	6/20/2006 8:16:21 AM				Event given Real Device Outage status
6	6/20/2006 8:29:26 AM	6/20/2006 8:29:26 AM				Outage merged upstream to device chr465838
7	6/20/2006 8:32:33 AM	6/20/2006 8:32:33 AM		Jim Endes		Crew 5586 assigned
8	6/20/2006 9:22:03 AM	6/20/2006 9:22:03 AM				Device chr465838 changed to state CLOSED
9	6/20/2006 9:28:31 AM	6/20/2006 9:28:31 AM		Jim Endes		Crew 5586 unassigned

<u>Premise ID</u>	<u>Transformer</u>	<u>Device Code</u>	<u>Inc #</u>	<u>Begin Time</u>	<u>Est Restored Time</u>	<u>Restored Time</u>	<u>Duration</u>	<u>Cust Out</u>	<u>DTS #</u>
		chr465802	389172	6/20/2006 8:03:51 AM		6/20/2006 9:12:45 AM	68:90	489	
<u>Company</u>	<u>DpCenter</u> <u>Local Area</u>	<u>Substation</u>		<u>Circuit</u>	<u>Outage Location</u>	<u>Job Code</u>	<u>Trouble Code</u>	<u>Excluded from SAID/SAIF/2</u>	
KU	LEXOC LEXINGTON	LEXINGTON PLANT	0001	231 N MILL ST		OUT-BAND,OUT		N	

<u>System</u>	<u>Type</u>	<u>Action</u>	<u>Cause</u>	<u>Failure Device</u>	<u>Interrupt Device</u>	<u>Weather</u>	<u>Previous Event</u>	<u>Subsequent Event</u>
Overhead	Transmission Substation	Completed	Company Contract Crew	Other/Unknown	Surion Breaker	Calm/Mild		

Dispatcher Info Notes
see comments on inc 389169

<u>Step Number</u>	<u>Time of Operation</u>	<u>Time Reported</u>	<u>Crew ID</u>	<u>Crew Contact</u>	<u>Mobile Number</u>	<u>Description of Event Action</u>
1	6/20/2006 8:07:21 AM	6/20/2006 8:07:21 AM				Event given Probable Service Outage status
2	6/20/2006 8:16:49 AM	6/20/2006 8:16:50 AM				Device chr465802 changed to state OPEN
3	6/20/2006 8:16:50 AM	6/20/2006 8:16:50 AM				Event given Real Device Outage status
4	6/20/2006 8:27:43 AM	6/20/2006 8:27:43 AM				Outage merged upstream to device chr465802
5	6/20/2006 8:32:35 AM	6/20/2006 8:32:35 AM	5586	Jim Endes		Crew 5586 assigned
6	6/20/2006 9:21:45 AM	6/20/2006 9:21:46 AM				Device chr465802 changed to state CLOSED
7	6/20/2006 9:39:07 AM	6/20/2006 9:39:07 AM	5586	Jim Endes		Crew 5586 unassigned

Transmission Failure Report

Year: 2006
Failure Number: 57
STATUS: CLOSED
DATE: 06-20-2006

COPIES TO: Brad Young, Gary King, Tom Seeley, Mark Johnson, James Eelling, Tom Hines, Tracy Badgen, Aymen El-Amouri
Reason: OTHER

Outage 1: Transmission: 74 mins
 Customer: 64 mins
Outage 2: Transmission: 0 mins
 Customer: 0 mins

Summary of Operation: GENERATED FROM REQUEST FOR SHUTDOWN 222-BUS DIFF // PAINTER CAME IN CONTACT WITH MAIN BUS

DATE	Time Device	Status	Section		TF Check	Remarks	Outage-1		Outage-2	
			From	To			T	C	T	C
06-20-2006	7:00	028-604 (LEXINGTON)				87L-BUS DIFF	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
06-20-2006	7:00	028-608 (LEXINGTON)					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
06-20-2006	7:00	028-618 (LEXINGTON)					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
06-20-2006	7:00	028-634 (LEXINGTON)					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
06-20-2006	7:00	028-644 (LEXINGTON)					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
06-20-2006	7:00	028-664 (LEXINGTON)					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
06-20-2006	7:58	028-604 (LEXINGTON)		BUS	OK		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
06-20-2006	7:59	028-644 (LEXINGTON)					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
06-20-2006	7:38	028-664 (LEXINGTON)					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
06-20-2006	8:04	028-618 (LEXINGTON)				DIST FEED IN SERVICE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
06-20-2006	8:04	028-608 (LEXINGTON)				DIST FEED IN SERVICE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
06-20-2006	8:14	028-634 (LEXINGTON)					<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CONTRACTOR SUBSTATION ENTRY ASSESSMENT

Please print

Company Name: RSC

Employee Name: M. Williams William J
(Last) (First) (MI)

Date Assessment Completed: 6-5-05

Company Address: 100 S.W. Hill Road

Company Contact Person: George Williams

Company Telephone # 412-431-7333

KU/LG&E Contract # _____

Brief Description of Contract Substation Maintenance

INSTRUCTIONS:

1. All of the above must be filled out before completing the assessment.
2. Employee must sign the assessment on the last page after completion.
3. LG&E "Authorized Contractor" card must be carried by contractor while on site.
4. The KU/LG&E employee will score all assessments and review all missed questions with employee(s) to insure their understanding of the areas of concern.

If an employee scores less than 80%, he/she may complete the assessment after the employer's review of the missed questions.

11. No employee may approach or take any conductive object without an insulated handle closer to exposed energized parts than the clearances set forth in Table C-1 unless:
- a. The employee is insulated from the energized part.
 - b. The energized part is insulated from the employee and any other conductive object at a different potential.
 - c. The employee is insulated from any other conductive object as during live line work.
 - d. All of the above.
12. Metal ladders shall not be used in substations. True False
13. When carrying long, conductive material, tools or equipment in energized areas of substations, they shall be held by at least two employees, one at each end and carried below shoulder height. True False
14. Movement and operation of mechanical equipment within hazardous areas must be controlled by a qualified person and at all times shall maintain safe clearances to energized bus and equipment. True False
15. All barriers, barricades and warnings signs shall be heeded. No one shall enter a barricaded area without permission. True False
16. Hold cards can be removed only with instructions from the System Dispatcher or the person it is Hold carded for. True False
17. When working on electrical equipment for LG&E/KU, the contractor must get permission from _____ before starting work.
- A) Any "LG&E/KU employee" on the job site
 - B) An LG&E/KU "Supervisor"
 - C) The LG&E/KU "person in charge of the site"
 - D) No one, it is okay to start work
18. Contractors will cooperate with the Hazard Communication Program by providing LG&E with a copy of their own Hazard Communication Program along with copies of MSDS sheets on all materials they use in their work prior to project start up. True False
19. To help EMS locate the station in case of an emergency, you should
- a. Know your location before an emergency occurs.
 - b. Use 911 in areas where it exists, or call the operator outside of 911 areas.
 - c. Be sure you know your location (City or County and can describe your exact location for EMS/FIRE/or etc).
 - d. For problems in the substation, call the system dispatcher.
 - e. All of the above.

20. The following is not permitted in LG&E buildings and vehicles:
- A) illegal drugs
 - B) weapons
 - C) smoking
 - D) all the above
21. If de-energized parts are not safety grounded, the employee must consider this to be energized. True False
22. While working at LG&E/KU contractors are required to use GFCI protection on double insulated tools. True False
23. All hazardous materials used by the contractor shall be accumulated on the job site and LG&E/KU will be responsible for disposal. True False
24. Contract employees do not need authorization to park within the confines of substation fences. True. False
25. Personnel who work in substations must always be aware of certain safety considerations and precautions. True False
26. Substation equipment buss work and circuit connects are energized with enough voltage to electrocute anyone who contacts them. True False
27. At KU/LG&E, the minimum approach distances to energized parts above 1,000 volts up to and including 138,000 volts
- A) 3 feet 6"
 - B) 5 feet 0"
 - C) 8 feet 6"
 - D) 12 feet 6"
28. The following employees shall receive a "JOB BRIEFING".
- A) All employees, while working
 - B) All employees, before any work begins
 - C) All employees, when the job plan changes during the day
 - D) B and C above
29. Theft shall be reason for immediate dismissal. True False
30. Electrical rubber gloves shall be inflated and rubber sleeves shall be visually inspected before every wearing. True False.

Employee Signature: *[Handwritten Signature]*

Grader Signature: *Erwin Vanover*

CONTRACTOR SUBSTATION ENTRY ASSESSMENT

Please print

Company Name: Q3C Yacht Co

Employee Name: Michael J. Kelly
(Last) (First) (MI)

Date Assessment Completed: 4-5-06

Company Address: 1000 S. Main St. Knoxville TN

Company Contact Person: Michael J. Kelly

Company Telephone #: 615-596-1111

KU/LG&E Contract #: Jimbo m Kelly

Brief Description of Contract: Substation Entry

INSTRUCTIONS:

1. All of the above must be filled out before completing the assessment.
2. Employee must sign the assessment on the last page after completion.
3. LG&E "Authorized Contractor" card must be carried by contractor while on site.
4. The KU/LG&E employee will score all assessments and review all missed questions with employee(s) to insure their understanding of the areas of concern.

If an employee scores less than 80%, he/she may complete the assessment after the employer's review of the missed questions.

ASSESSMENT

Circle the correct answer

1. Hard hats are to be worn
 - A) Only when instructed
 - B) At all times while working around high voltage electrical facilities
 - C) While driving to and from job site
 - D) While working on any construction-related project
 - E) Both B and D

2. Approved eye protection must worn while inside substations and meet Kentucky OSHA, OSHA and ANSI standards Z87.1. True False

3. Tennis or athletic shoes are acceptable footwear on LG&E/KU job sites.
True False

4. Shorts and tank tops can be worn on LG&E/KU job sites
 - A) When outside air temperature is over 100 degree
 - B) When tennis shoes are worn
 - C) While working inside LG&E/KU building
 - D) Never

5. It is not necessary to make arrangements to gain entrance into LG&E/KU substations because someone is always present. True False

6. Substation safety actually begins at the gate. True false

7. When entering and before leaving a substation for work purposes the contractor shall notify the KU/LG&E Dispatcher or local office provided they can be reached by telephone or company radio. True False

8. Gates to stations shall be kept closed and locked when authorized personnel are not in the station. When authorized personnel are working in the station the gate shall be kept closed and shall be locked where required. True False

9. Before driving a vehicle into a substation, the driver shall check the overhead clearance of the vehicle (e.g. radio antenna, boom, and basket).
 - a) To prevent contact with low lines, energized equipment or other structures.
 - b. For radio signal.
 - c. For good operation.

10. Contractors shall not enter electrical equipment rooms or enclosures unless they have been authorized or their duties require them to be there. True False

CONTRACTOR SUBSTATION ENTRY ASSESSMENT

Please print

Company Name: QSC PAINTING

Employee Name: ZATEK AL C
(Last) (First) (MI)

Date Assessment Completed: 5-6-06

Company Address: 1100 SAWMILL ROAD

Company Contact Person: GEORGE PETTAI'S

Company Telephone # 412-431-7344

KU/LG&E Contract # JIMBO MC KINLEY

Brief Description of Contract _____

INSTRUCTIONS:

1. All of the above must be filled out before completing the assessment.
2. Employee must sign the assessment on the last page after completion.
3. LG&E "Authorized Contractor" card must be carried by contractor while on site.
4. The KU/LG&E employee will score all assessments and review all missed questions with employee(s) to insure their understanding of the areas of concern.

If an employee scores less than 80%, he/she may complete the assessment after the employer's review of the missed questions.

ASSESSMENT

Circle the correct answer

1. Hard hats are to be worn
 - A) Only when instructed
 - B) At all times while working around high voltage electrical facilities
 - C) While driving to and from job site
 - D) While working on any construction-related project
 - E) Both B and D

2. Approved eye protection must worn while inside substations and meet Kentucky OSHA, OSHA and ANSI standards Z87.1. True False

3. Tennis or athletic shoes are acceptable footwear on LG&E/KU job sites. True False

4. Shorts and tank tops can be worn on LG&E/KU job sites
 - A) When outside air temperature is over 100 degree
 - B) When tennis shoes are worn
 - C) While working inside LG&E/KU building
 - D) Never

5. It is not necessary to make arrangements to gain entrance into LG&E/KU substations because someone is always present. True False

6. Substation safety actually begins at the gate. True false

7. When entering and before leaving a substation for work purposes the contractor shall notify the KU/LG&E Dispatcher or local office provided they can be reached by telephone or company radio. True False

8. Gates to stations shall be kept closed and locked when authorized personnel are not in the station. When authorized personnel are working in the station the gate shall be kept closed and shall be locked where required. True False

9. Before driving a vehicle into a substation, the driver shall check the overhead clearance of the vehicle (e.g. radio antenna, boom, and basket).
 - a. To prevent contact with low lines, energized equipment or other structures.
 - b. For radio signal.
 - c. For good operation.

10. Contractors shall not enter electrical equipment rooms or enclosures unless they have been authorized or their duties require them to be there. True False

20. The following is not permitted in LG&E buildings and vehicles:
- A) illegal drugs
 - B) weapons
 - C) smoking
 - D) all the above
21. If de-energized parts are not safety grounded, the employee must consider this to be energized. True False
22. While working at LG&E/KU contractors are required to use GFCI protection on double insulated tools. True False
23. All hazardous materials used by the contractor shall be accumulated on the job site and LG&E/KU will be responsible for disposal. True False
24. Contract employees do not need authorization to park within the confines of substation fences. True False
25. Personnel who work in substations must always be aware of certain safety considerations and precautions. True False
26. Substation equipment buss work and circuit connects are energized with enough voltage to electrocute anyone who contacts them. True False
27. At KU/LG&E, the minimum approach distances to energized parts above 1,000 volts up to and including 138,000 volts
- A) 3 feet 6"
 - B) 5 feet 0"
 - C) 8 feet 6"
 - D) 12 feet 6"
28. The following employees shall receive a "JOB BRIEFING".
- A) All employees, while working
 - B) All employees, before any work begins
 - C) All employees, when the job plan changes during the day
 - D) B and C above
29. Theft shall be reason for immediate dismissal. True False
30. Electrical rubber gloves shall be inflated and rubber sleeves shall be visually inspected before every wearing. True False.

Employee Signature: Alan Zatek

Grader Signature: Erin Vanover

CONTRACTOR SUBSTATION ENTRY ASSESSMENT

Please print

Company Name: ASC painting

Employee Name: Best Roger Lee
(Last) (First) (MI)

Date Assessment Completed: 6-5-06

Company Address: 1105 Campbell Ln Rd

Company Contact Person: George Pittman

Company Telephone #: 1-800-626-5360

KU/LG&E Contract #: Justin McKinley

Brief Description of Contract: Feeding Sub

INSTRUCTIONS:

1. All of the above must be filled out before completing the assessment.
2. Employee must sign the assessment on the last page after completion.
3. LG&E "Authorized Contractor" card must be carried by contractor while on site.
4. The KU/LG&E employee will score all assessments and review all missed questions with employee(s) to insure their understanding of the areas of concern.

If an employee scores less than 80%, he/she may complete the assessment after the employer's review of the missed questions.

ASSESSMENT

Circle the correct answer

1. Hard hats are to be worn
A) Only when instructed
B) At all times while working around high voltage electrical facilities
C) While driving to and from job site
D) While working on any construction-related project
 E) Both B and D

2. Approved eye protection must worn while inside substations and meet Kentucky OSHA, OSHA and ANSI standards Z87.1. True False

3. Tennis or athletic shoes are acceptable footwear on LG&E/KU job sites.
True False

4. Shorts and tank tops can be worn on LG&E/KU job sites
A) When outside air temperature is over 100 degree
B) When tennis shoes are worn
C) While working inside LG&E/KU building
 D) Never

5. It is not necessary to make arrangements to gain entrance into LG&E/KU substations because someone is always present. True False

6. Substation safety actually begins at the gate. True false

7. When entering and before leaving a substation for work purposes the contractor shall notify the KU/LG&E Dispatcher or local office provided they can be reached by telephone or company radio. True False

8. Gates to stations shall be kept closed and locked when authorized personnel are not in the station. When authorized personnel are working in the station the gate shall be kept closed and shall be locked where required. True False

9. Before driving a vehicle into a substation, the driver shall check the overhead clearance of the vehicle (e.g. radio antenna, boom, and basket).
 a) To prevent contact with low lines, energized equipment or other structures.
b. For radio signal.
c. For good operation.

10. Contractors shall not enter electrical equipment rooms or enclosures unless they have been authorized or their duties require them to be there. True False

11. No employee may approach or take any conductive object without an insulated handle closer to exposed energized parts than the clearances set forth in Table C-1 unless:
- a. The employee is insulated from the energized part.
 - b. The energized part is insulated from the employee and any other conductive object at a different potential.
 - c. The employee is insulated from any other conductive object as during live line work.
 - d. All of the above.
12. Metal ladders shall not be used in substations. True False
13. When carrying long, conductive material, tools or equipment in energized areas of substations, they shall be held by at least two employees, one at each end and carried below shoulder height. True False
14. Movement and operation of mechanical equipment within hazardous areas must be controlled by a qualified person and at all times shall maintain safe clearances to energized bus and equipment. True False
15. All barriers, barricades and warnings signs shall be heeded. No one shall enter a barricaded area without permission. True False
16. Hold cards can be removed only with instructions from the System Dispatcher or the person it is Hold carded for. True False
17. When working on electrical equipment for LG&E/KU, the contractor must get permission from _____ before starting work.
- A) Any "LG&E/KU employee" on the job site
 - B) An LG&E/KU "Supervisor"
 - C) The LG&E/KU "person in charge of the site"
 - D) No one, it is okay to start work
18. Contractors will cooperate with the Hazard Communication Program by providing LG&E with a copy of their own Hazard Communication Program along with copies of MSDS sheets on all materials they use in their work prior to project start up.
- True False
19. To help EMS locate the station in case of an emergency, you should
- a. Know your location before an emergency occurs.
 - b. Use 911 in areas where it exists, or call the operator outside of 911 areas.
 - c. Be sure you know your location (City or County and can describe your exact location for EMS/FIRE/or etc).
 - d. For problems in the substation, call the system dispatcher.
 - e. All of the above.

20. The following is not permitted in LG&E buildings and vehicles:

- A) illegal drugs
- B) weapons
- C) smoking
- D) all the above

21. If de-energized parts are not safety grounded, the employee must consider this to be energized. True False

22. While working at LG&E/KU contractors are required to use GFCI protection on double insulated tools. True False

23. All hazardous materials used by the contractor shall be accumulated on the job site and LG&E/KU will be responsible for disposal. True False

24. Contract employees do not need authorization to park within the confines of substation fences. True. False

25. Personnel who work in substations must always be aware of certain safety considerations and precautions. True False

26. Substation equipment buss work and circuit connects are energized with enough voltage to electrocute anyone who contacts them. True False

27. At KU/LG&E, the minimum approach distances to energized parts above 1,000 volts up to and including 138,000 volts

- A) 3 feet 6"
- B) 5 feet 0"
- C) 8 feet 6"
- D) 12 feet 6"

28. The following employees shall receive a "JOB BRIEFING".

- A) All employees, while working
- B) All employees, before any work begins
- C) All employees, when the job plan changes during the day
- D) B and C above

29. Theft shall be reason for immediate dismissal. True False

30. Electrical rubber gloves shall be inflated and rubber sleeves shall be visually inspected before every wearing. True False.

Employee Signature: Regan L. West

Grader Signature: Erwin Vanover

CONTRACTOR SUBSTATION ENTRY ASSESSMENT

Please print

Company Name: RSC Painting

Employee Name: WARRICK Jim A
(Last) (First) (MI)

Date Assessment Completed: 6-5-06

Company Address: PO Box 4444

Company Contact Person: Jim Warrick

Company Telephone # 781-326-1111

KU/LG&E Contract #

Brief Description of Contract PAINT Sub 2005

INSTRUCTIONS:

1. All of the above must be filled out before completing the assessment.
2. Employee must sign the assessment on the last page after completion.
3. LG&E "Authorized Contractor" card must be carried by contractor while on site.
4. The KU/LG&E employee will score all assessments and review all missed questions with employee(s) to insure their understanding of the areas of concern.

If an employee scores less than 80%, he/she may complete the assessment after the employer's review of the missed questions.

ASSESSMENT

Circle the correct answer

1. Hard hats are to be worn
 - A) Only when instructed
 - B) At all times while working around high voltage electrical facilities
 - C) While driving to and from job site
 - D) While working on any construction-related project
 - E) Both B and D

2. Approved eye protection must worn while inside substations and meet Kentucky OSHA, OSHA and ANSI standards Z87.1. True False

3. Tennis or athletic shoes are acceptable footwear on LG&E/KU job sites.
 True False

4. Shorts and tank tops can be worn on LG&E/KU job sites
 - A) When outside air temperature is over 100 degree
 - B) When tennis shoes are worn
 - C) While working inside LG&E/KU building
 - D) Never

5. It is not necessary to make arrangements to gain entrance into LG&E/KU substations because someone is always present. True False

6. Substation safety actually begins at the gate. True false

7. When entering and before leaving a substation for work purposes the contractor shall notify the KU/LG&E Dispatcher or local office provided they can be reached by telephone or company radio. True False

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 - a. To prevent contact with low lines, energized equipment or other structures.
 - b. For radio signal.
 - c. For good operation.

10. Contractors shall not enter electrical equipment rooms or enclosures unless they have been authorized or their duties require them to be there. True False

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14. Movement and operation of mechanical equipment within hazardous areas must be controlled by a qualified person and at all times shall maintain safe clearances to energized bus and equipment. True False
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 - B) An LG&E/KU "Supervisor"
 - C) The LG&E/KU "person in charge of the site"
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19. To help EMS locate the station in case of an emergency, you should
- a. Know your location before an emergency occurs.
 - b. Use 911 in areas where it exists, or call the operator outside of 911 areas.
 - c. Be sure you know your location (City or County and can describe your exact location for EMS/FIRE/or etc).
 - d. For problems in the substation, call the system dispatcher.
 - e. All of the above.

- 20. The following is not permitted in LG&E buildings and vehicles:
 - A) illegal drugs
 - B) weapons
 - C) smoking
 - D) all the above

- 21. If de-energized parts are not safety grounded, the employee must consider this to be energized. True False

- 22. While working at LG&E/KU contractors are required to use GFCI protection on double insulated tools. True False

- 23. All hazardous materials used by the contractor shall be accumulated on the job site and LG&E/KU will be responsible for disposal. True False

- 24. Contract employees do not need authorization to park within the confines of substation fences. True False

- 25. Personnel who work in substations must always be aware of certain safety considerations and precautions. True False

- 26. Substation equipment buss work and circuit connects are energized with enough voltage to electrocute anyone who contacts them. True False

- 27. At KU/LG&E, the minimum approach distances to energized parts above 1,000 volts up to and including 138,000 volts
 - A) 3 feet 6"
 - B) 5 feet 0"
 - C) 8 feet 6"
 - D) 12 feet 6"

- 28. The following employees shall receive a "JOB BRIEFING".
 - A) All employees, while working
 - B) All employees, before any work begins
 - C) All employees, when the job plan changes during the day
 - D) B and C above

- 29. Theft shall be reason for immediate dismissal. True False

- 30. Electrical rubber gloves shall be inflated and rubber sleeves shall be visually inspected before every wearing. True False.

Employee Signature: [Signature]

Grader Signature: Erin Vanover

CONTRACTOR SUBSTATION ENTRY ASSESSMENT

Please print

Company Name: QSC Painting

Employee Name: Nertavich Vince P.
(Last) (First) (MI)

Date Assessment Completed: 6-5-06

Company Address: 1100 SANMILL RUN RD PITTSBURGH

Company Contact Person: MIKE HEALY

Company Telephone # 1800-636-5060

KU/LG&E Contract # _____

Brief Description of Contract _____

INSTRUCTIONS:

1. All of the above must be filled out before completing the assessment.
2. Employee must sign the assessment on the last page after completion.
3. LG&E "Authorized Contractor" card must be carried by contractor while on site.
4. The KU/LG&E employee will score all assessments and review all missed questions with employee(s) to insure their understanding of the areas of concern.

If an employee scores less than 80%, he/she may complete the assessment after the employer's review of the missed questions.

ASSESSMENT

Circle the correct answer

1. Hard hats are to be worn.
A) Only when instructed
B) At all times while working around high voltage electrical facilities
C) While driving to and from job site
D) While working on any construction-related project
 E) Both B and D

2. Approved eye protection must worn while inside substations and meet Kentucky OSHA, OSHA and ANSI standards Z87.1. True False

3. Tennis or athletic shoes are acceptable footwear on LG&E/KU job sites.
True False

4. Shorts and tank tops can be worn on LG&E/KU job sites
A) When outside air temperature is over 100 degree
B) When tennis shoes are worn
C) While working inside LG&E/KU building
 D) Never

5. It is not necessary to make arrangements to gain entrance into LG&E/KU substations because someone is always present. True False

6. Substation safety actually begins at the gate. True false

7. When entering and before leaving a substation for work purposes the contractor shall notify the KU/LG&E Dispatcher or local office provided they can be reached by telephone or company radio. True False

8. Gates to stations shall be kept closed and locked when authorized personnel are not in the station. When authorized personnel are working in the station the gate shall be kept closed and shall be locked where required. True False

9. Before driving a vehicle into a substation, the driver shall check the overhead clearance of the vehicle (e.g. radio antenna, boom, and basket).
 a) To prevent contact with low lines, energized equipment or other structures.
b. For radio signal.
c. For good operation.

10. Contractors shall not enter electrical equipment rooms or enclosures unless they have been authorized or their duties require them to be there. True False

11. No employee may approach or take any conductive object without an insulated handle closer to exposed energized parts than the clearances set forth in Table C-1 unless:
- a. The employee is insulated from the energized part.
 - b. The energized part is insulated from the employee and any other conductive object at a different potential.
 - c. The employee is insulated from any other conductive object as during live line work.
 - d. All of the above.
12. Metal ladders shall not be used in substations. True False
13. When carrying long, conductive material, tools or equipment in energized areas of substations, they shall be held by at least two employees, one at each end and carried below shoulder height. True False
14. Movement and operation of mechanical equipment within hazardous areas must be controlled by a qualified person and at all times shall maintain safe clearances to energized bus and equipment. True False
15. All barriers, barricades and warnings signs shall be heeded. No one shall enter a barricaded area without permission. True False
16. Hold cards can be removed only with instructions from the System Dispatcher or the person it is Hold carded for. True False
17. When working on electrical equipment for LG&E/KU, the contractor must get permission from _____ before starting work.
- A) Any "LG&E/KU employee" on the job site
 - B) An LG&E/KU "Supervisor"
 - C) The LG&E/KU "person in charge of the site"
 - D) No one, it is okay to start work
18. Contractors will cooperate with the Hazard Communication Program by providing LG&E with a copy of their own Hazard Communication Program along with copies of MSDS sheets on all materials they use in their work prior to project start up. True False
19. To help EMS locate the station in case of an emergency, you should
- a. Know your location before an emergency occurs.
 - b. Use 911 in areas where it exists, or call the operator outside of 911 areas.
 - c. Be sure you know your location (City or County and can describe your exact location for EMS/FIRE/or etc).
 - d. For problems in the substation, call the system dispatcher.
 - e. All of the above.

- 20. The following is not permitted in LG&E buildings and vehicles:
 - A) illegal drugs
 - B) weapons
 - C) smoking
 - D) all the above

- 21. If de-energized parts are not safety grounded, the employee must consider this to be energized. True False

- 22. While working at LG&E/KU contractors are required to use GFCI protection on double insulated tools. True False

- 23. All hazardous materials used by the contractor shall be accumulated on the job site and LG&E/KU will be responsible for disposal. True False

- 24. Contract employees do not need authorization to park within the confines of substation fences. True False

- 25. Personnel who work in substations must always be aware of certain safety considerations and precautions. True False

- 26. Substation equipment buss work and circuit connects are energized with enough voltage to electrocute anyone who contacts them. True False

- 27. At KU/LG&E, the minimum approach distances to energized parts above 1,000 volts up to and including 138,000 volts
 - A) 3 feet 6"
 - B) 5 feet 0"
 - C) 8 feet 6"
 - D) 12 feet 5"

- 28. The following employees shall receive a "JOB BRIEFING".
 - A) All employees, while working
 - B) All employees, before any work begins
 - C) All employees, when the job plan changes during the day
 - D) B and C above

- 29. Theft shall be reason for immediate dismissal. True False

- 30. Electrical rubber gloves shall be inflated and rubber sleeves shall be visually inspected before every wearing. True False.

Employee Signature: Vince V. [Signature]

Grader Signature: Erwin [Signature]

KU Central Substation Dept. Job Briefing Form

Date 6-20-06 Conducted By Jimbo McKinley Crew Size 5

Job 1 Description Paint 654 & Steel
 Job 2 Description _____
 Job 3 Description _____
 Job 4 Description _____
 Job 5 Description _____

Job Number	1	2	3	4	5	(Check if Applicable)
	✓					Hazards associated with the job
	✓					Work procedures involved
	✓					Special precautions to be taken
	✓					Energy Source Controls
	✓					Personal Protective Equipment (PPE) required
	✓					Location of energized equipment in or adjacent to work area
	✓					Limits of any de-energized work area

Comments:

Tailgate Participants (signed by each employee)

me

Jim McKinley

Jim Stavers

James Bond

Vince Noto

KU Central Substation Dept. Job Briefing Form

Date 6-11-06 Conducted By Jumbo McKinley Crew Size 3

Job 1 Description PAINT 69 Steel AND 634
 Job 2 Description _____
 Job 3 Description _____
 Job 4 Description _____
 Job 5 Description _____

Job Number	1	2	3	4	5	(Check if Applicable)
	✓					Hazards associated with the job
	✓					Work procedures involved
	✓					Special precautions to be taken
	✓					Energy Source Controls
	✓					Personal Protective Equipment (PPE) required
	✓					Location of energized equipment in or adjacent to work area
	✓					Limits of any de-energized work area

Comments:

Tailgate Participants (signed by each employee)

Mike _____
Alan Zwick _____
Vince _____
Jon _____

KU Central Substation Dept. Job Briefing Form

Date 6-12-06 Conducted By James Hickley Crew Size 6

Job 1 Description PAINT STEEL AND 604
 Job 2 Description _____
 Job 3 Description _____
 Job 4 Description _____
 Job 5 Description _____

Job Number	1	2	3	4	5	(Check if Applicable)
	✓					Hazards associated with the job
	✓					Work procedures involved
	✓					Special precautions to be taken
	✓					Energy Source Controls
	✓					Personal Protective Equipment (PPE) required
	✓					Location of energized equipment in or adjacent to work area
	✓					Limits of any de-energized work area

Comments:

Tailgate Participants (signed by each employee)

<u>James Hickley</u>	<u>[Signature]</u>
<u>[Signature]</u>	
<u>[Signature]</u>	
<u>[Signature]</u>	
<u>[Signature]</u>	

KU Central Substation Dept. Job Briefing Form

Date 6-14-06 Conducted By Jim Bo McKelvey Crew Size 5

Job 1 Description PAINT LA Steel @ LEX PLANT
 Job 2 Description _____
 Job 3 Description _____
 Job 4 Description _____
 Job 5 Description _____

Job Number	1	2	3	4	5	(Check if Applicable)
	✓					Hazards associated with the job
	✓					Work procedures involved
	✓					Special precautions to be taken
	✓					Energy Source Controls
	✓					Personal Protective Equipment (PPE) required
	✓					Location of energized equipment in or adjacent to work area
	✓					Limits of any de-energized work area

Comments:

Tailgate Participants (signed by each employee)

<u>Mike [Signature]</u>	<u>Jim [Signature]</u>
<u>Alan [Signature]</u>	
<u>Kevin [Signature]</u>	
<u>Viggo [Signature]</u>	
<u>Roger [Signature]</u>	

KU Central Substation Dept. Job Briefing Form

Date 6-15-06 Conducted By Jim McKelvey Crew Size 6

Job 1 Description Paint Steel AND BEES
 Job 2 Description _____
 Job 3 Description _____
 Job 4 Description _____
 Job 5 Description _____

Job Number	1	2	3	4	5	(Check if Applicable)
	✓					Hazards associated with the job
	✓					Work procedures involved
	✓					Special precautions to be taken
	✓					Energy Source Controls
	✓					Personal Protective Equipment (PPE) required
	✓					Location of energized equipment in or adjacent to work area
	✓					Limits of any de-energized work area

Comments:

Tailgate Participants (signed by each employee)

<u>an d g am</u>	<u>Vince Peters</u>
<u>Mike D</u>	
<u>Alan</u>	
<u>Jim</u>	



KU Central Substation Dept. Job Briefing Form

Date 6-16-06 Conducted By Jumbo McKay Crew Size 6

Job 1 Description PAINT BKR'S AND STEEL
 Job 2 Description _____
 Job 3 Description _____
 Job 4 Description _____
 Job 5 Description _____

Job Number	1	2	3	4	5	Check if Applicable
	<input checked="" type="checkbox"/>					Hazards associated with the job
	<input checked="" type="checkbox"/>					Work procedures involved
	<input checked="" type="checkbox"/>					Special precautions to be taken
	<input checked="" type="checkbox"/>					Energy Source Controls
	<input checked="" type="checkbox"/>					Personal Protective Equipment (PPE) required
	<input checked="" type="checkbox"/>					Location of energized equipment in or adjacent to work area
	<input checked="" type="checkbox"/>					Limits of any de-energized work area

Comments:

Tailgate Participants (signed by each employee)

<u>Vince [Signature]</u>	<u>[Signature]</u>
<u>[Signature]</u>	_____
<u>[Signature]</u>	_____
<u>[Signature]</u>	_____

KU Central Substation Dept. Job Briefing Form

Date 6-17-06 Conducted By Jumbo McKinley Crew Size 6

Job 1 Description Paint 608 + Steel
 Job 2 Description _____
 Job 3 Description _____
 Job 4 Description _____
 Job 5 Description _____

Job Number	1	2	3	4	5	(Check if Applicable)
	✓					Hazards associated with the job
	✓					Work procedures involved
	✓					Special precautions to be taken
	✓					Energy Source Controls
	✓					Personal Protective Equipment (PPE) required
	✓					Location of energized equipment in or adjacent to work area
	✓					Limits of any de-energized work area

Comments:

Tailgate Participants (signed by each employee)

<u>Alex Zalk</u>	<u>ari 2 m</u>
<u>M. McHenry</u>	
<u>[Signature]</u>	
<u>Joe Waters</u>	
<u>[Signature]</u>	

KU Central Substation Dept. Job Briefing Form

Date 6-18-06 Conducted By Jumbo McKinley Crew Size 10

Job 1 Description Paint Coos + Steel
 Job 2 Description _____
 Job 3 Description _____
 Job 4 Description _____
 Job 5 Description _____

Job Number	1	2	3	4	5	(Check if Applicable)
	✓					Hazards associated with the job
	✓					Work procedures involved
	✓					Special precautions to be taken
	✓					Energy Source Controls
	✓					Personal Protective Equipment (PPE) required
	✓					Location of energized equipment in or adjacent to work area
	✓					Limits of any de-energized work area

Comments:

Tailgate Participants (signed by each employee)

Jim Waters _____
Jim Waters _____
Al Waters _____
Roger Best _____

KU Central Substation Dept. Job Briefing Form

Date 10-19-06 Conducted By James McKeely Crew Size 6

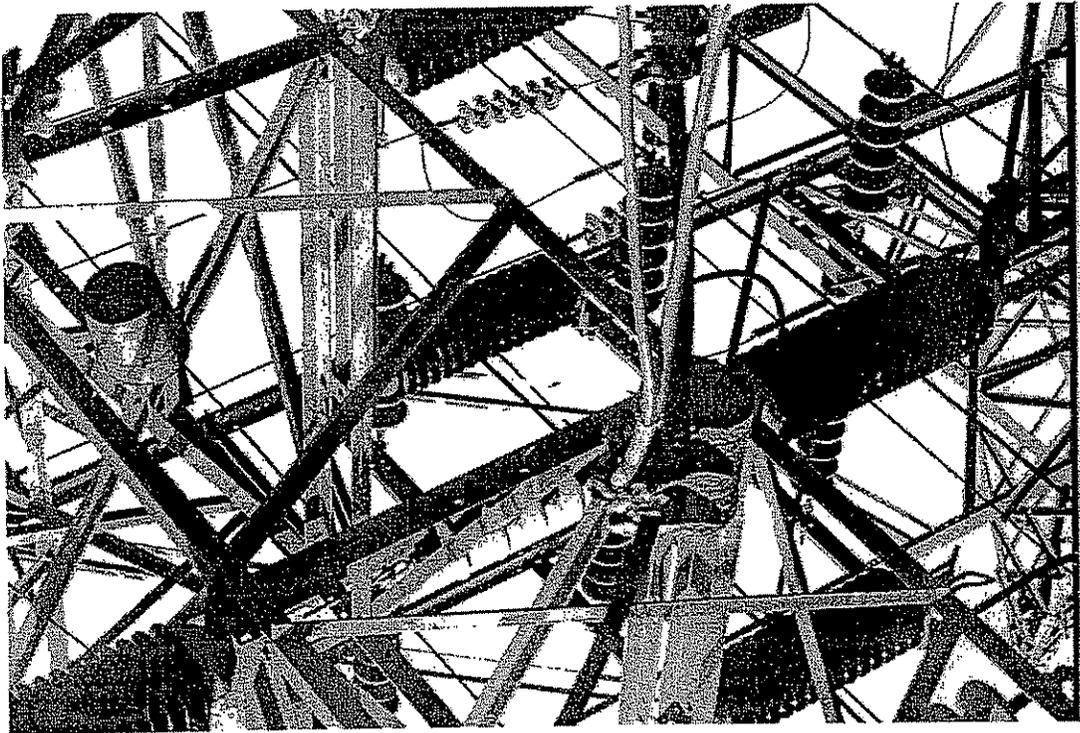
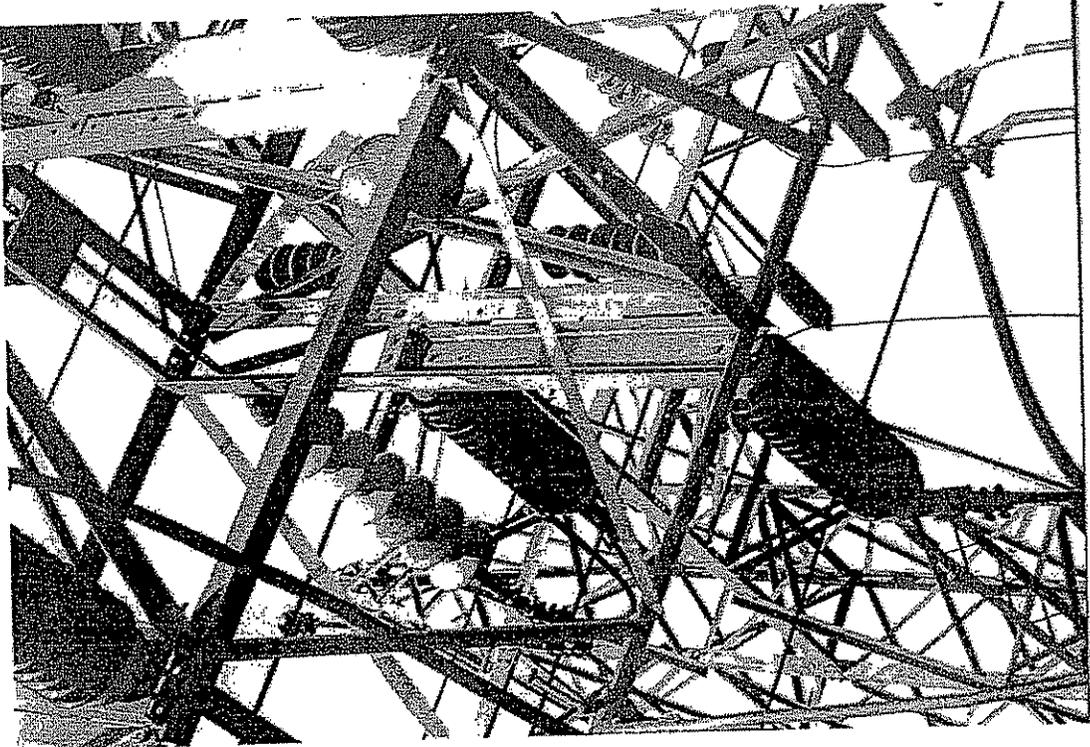
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 Job 2 Description _____
 Job 3 Description _____
 Job 4 Description _____
 Job 5 Description _____

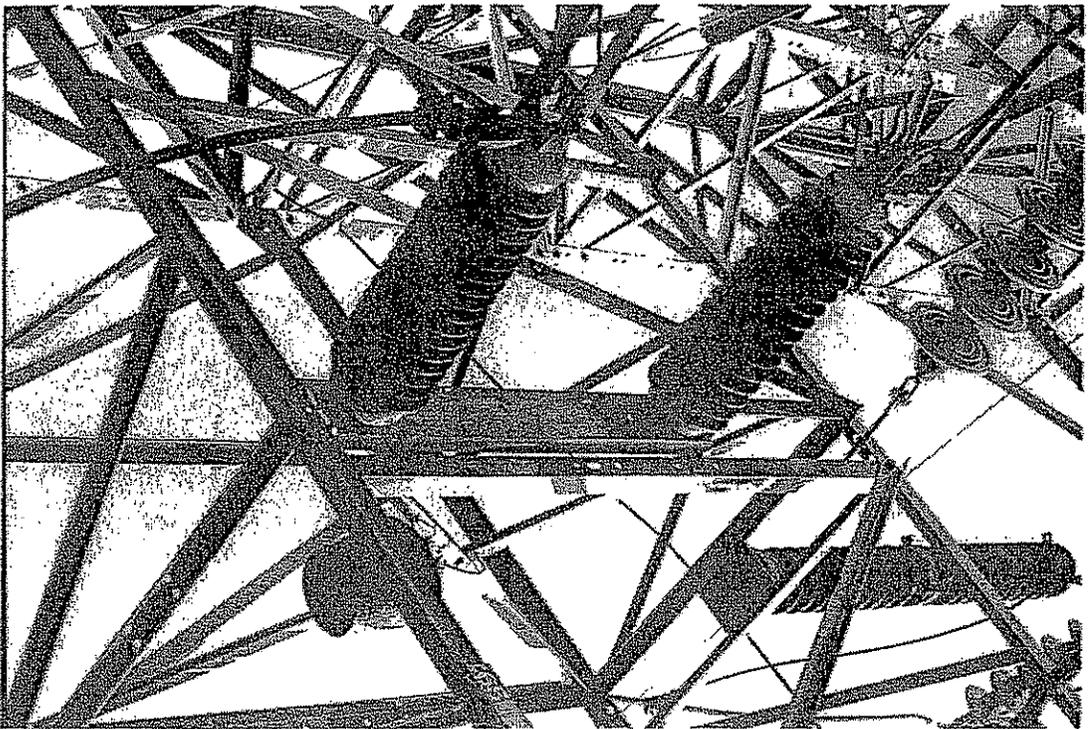
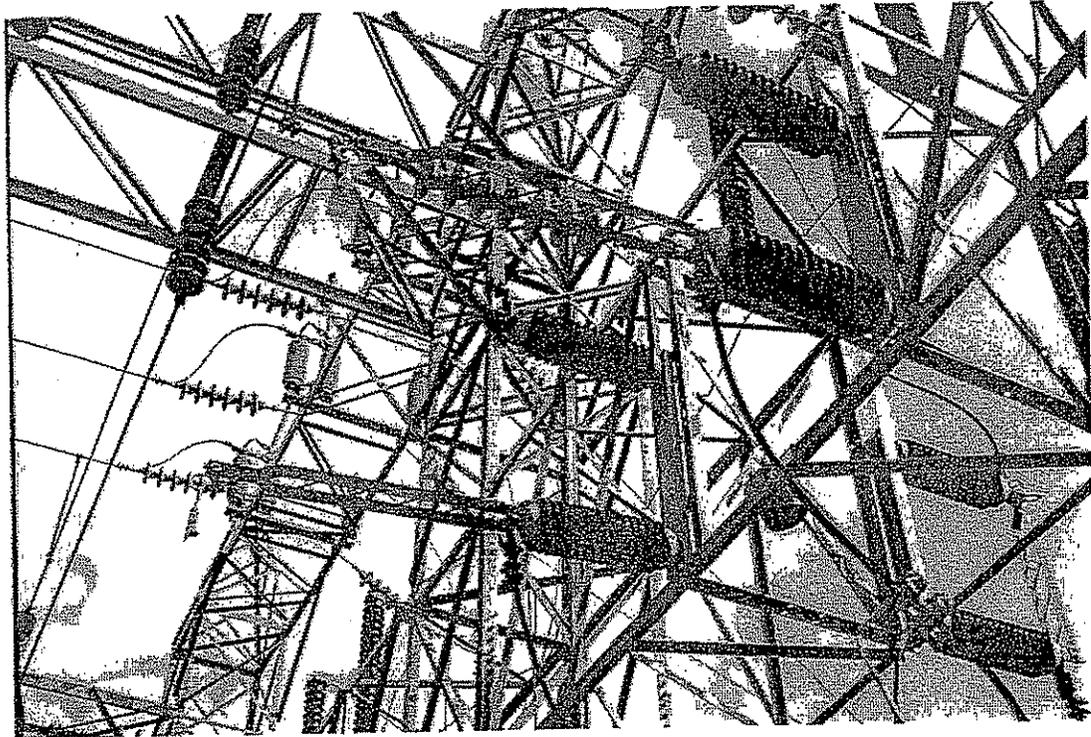
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	<input checked="" type="checkbox"/>					Work procedures involved
	<input checked="" type="checkbox"/>					Special precautions to be taken
	<input checked="" type="checkbox"/>					Energy Source Controls
	<input checked="" type="checkbox"/>					Personal Protective Equipment (PPE) required
	<input checked="" type="checkbox"/>					Location of energized equipment in or adjacent to work area
	<input checked="" type="checkbox"/>					Limits of any de-energized work area

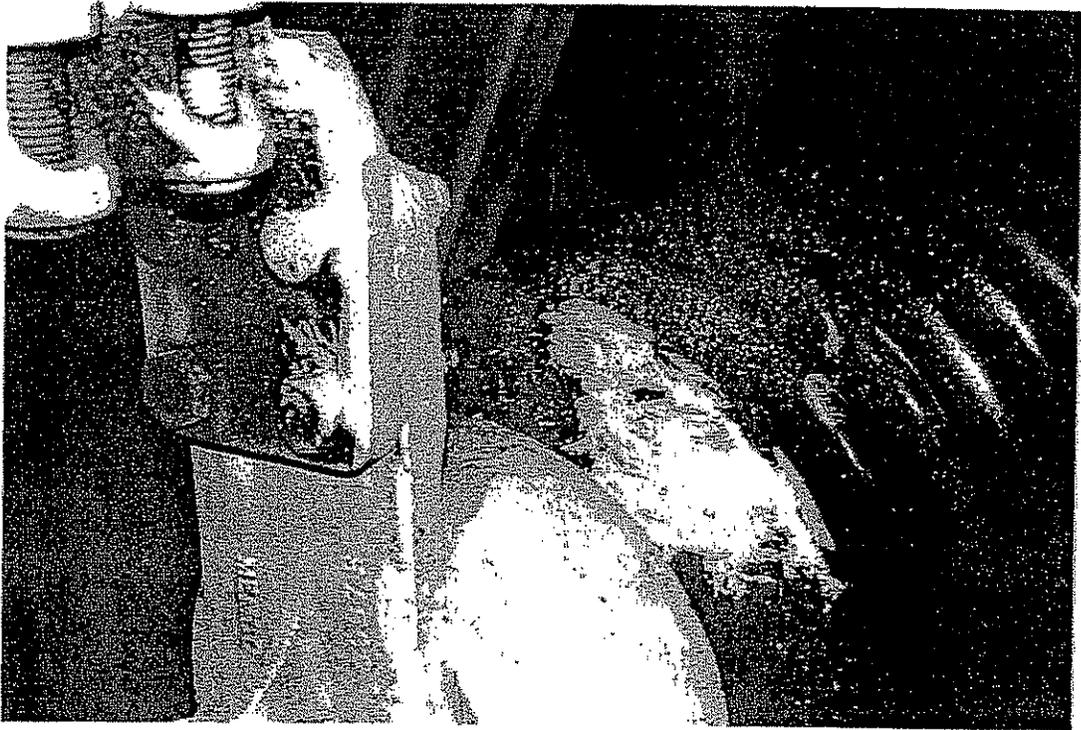
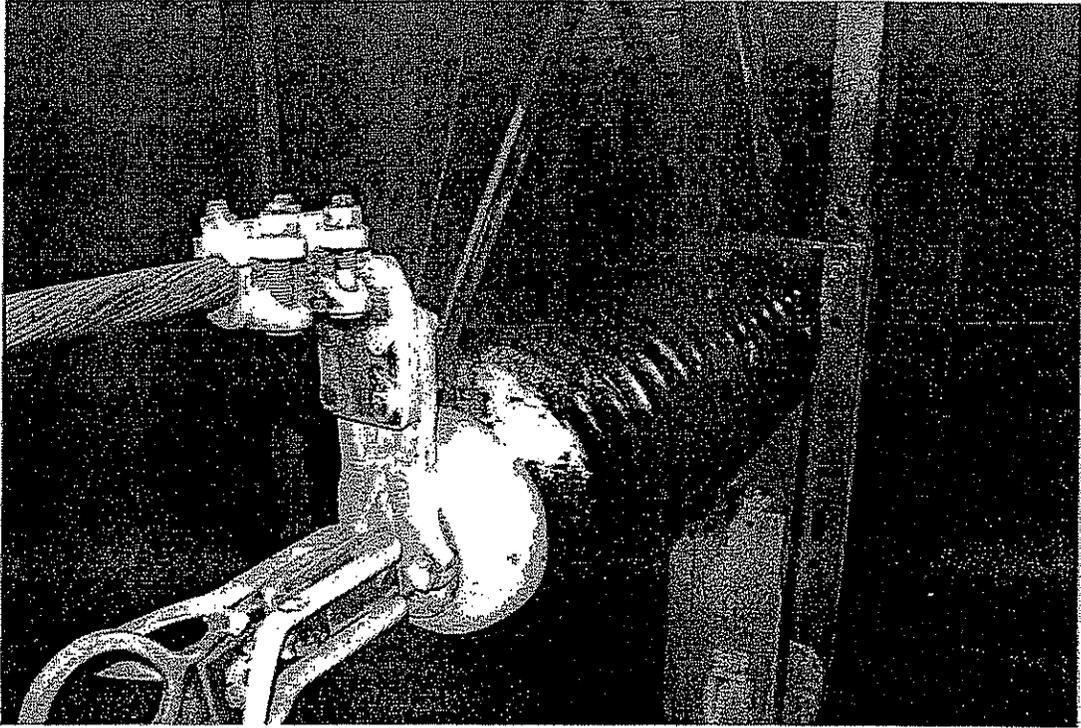
Comments:

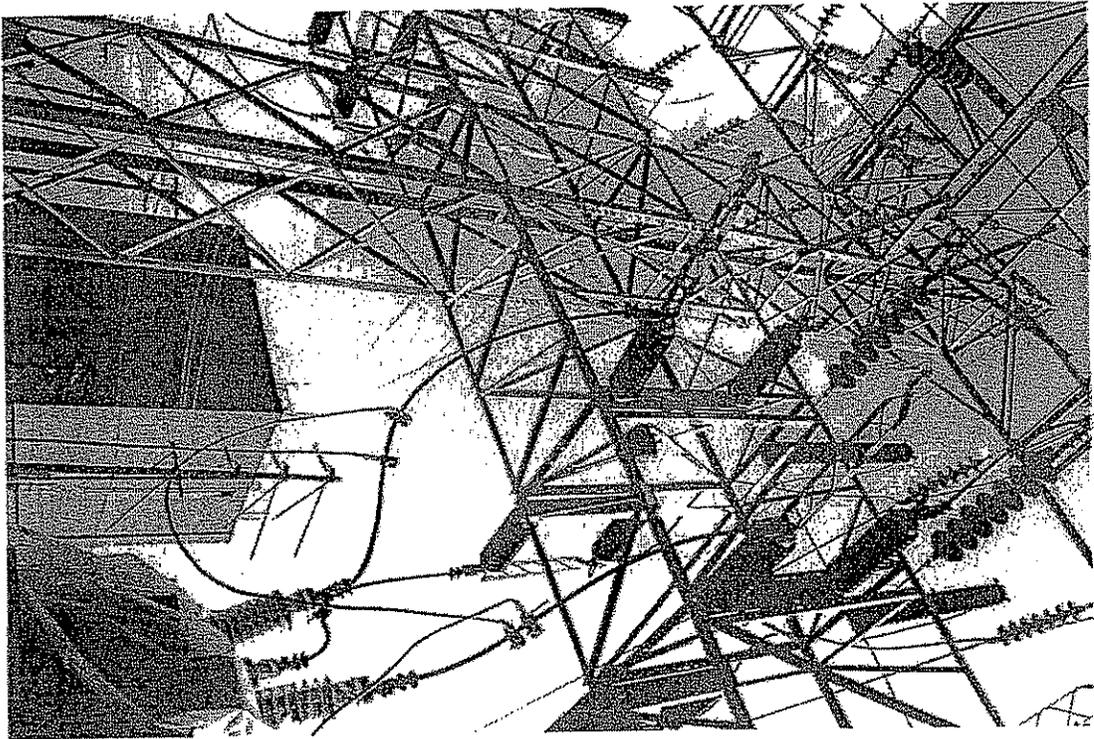
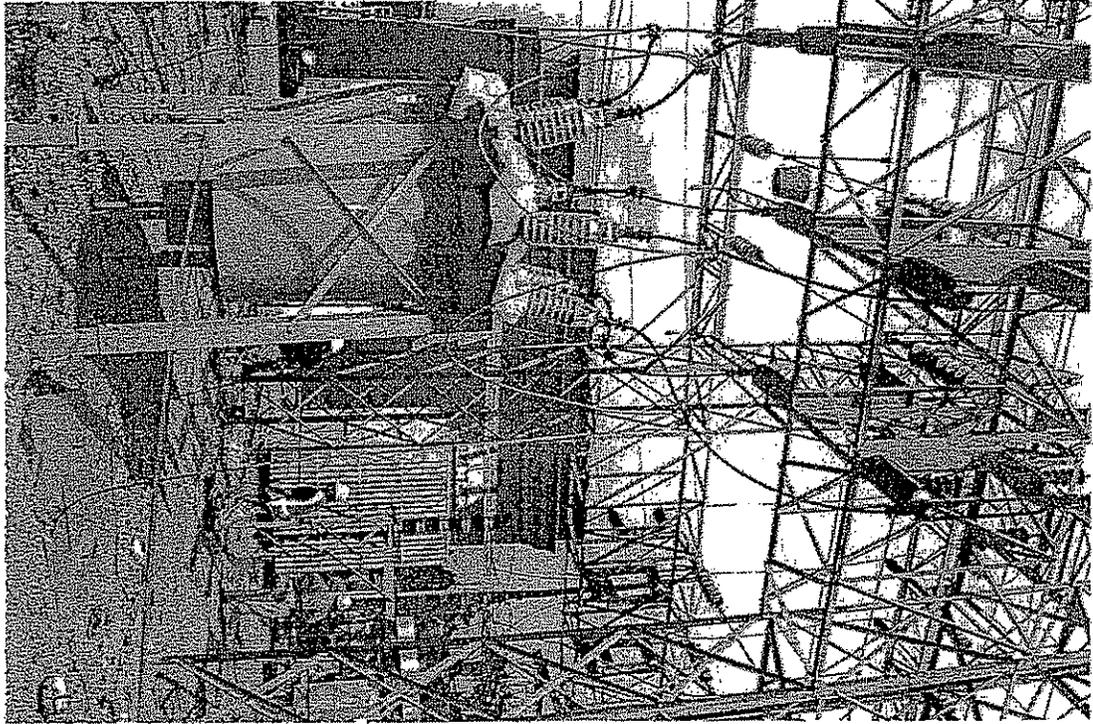
Tailgate Participants (signed by each employee)

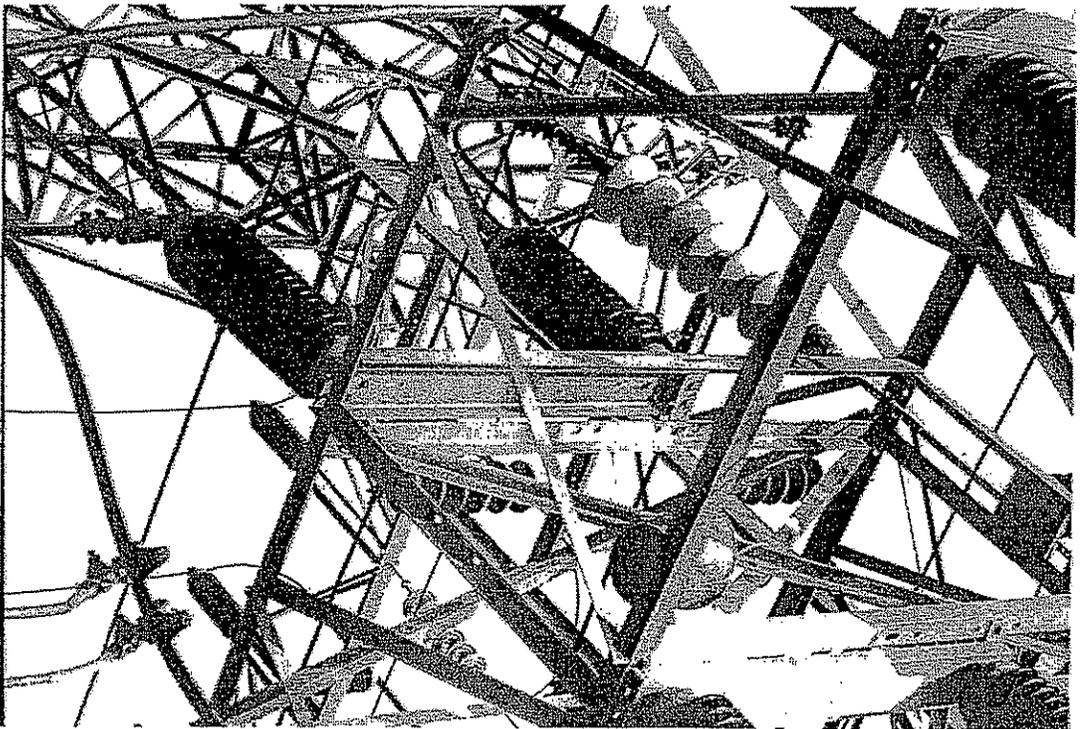
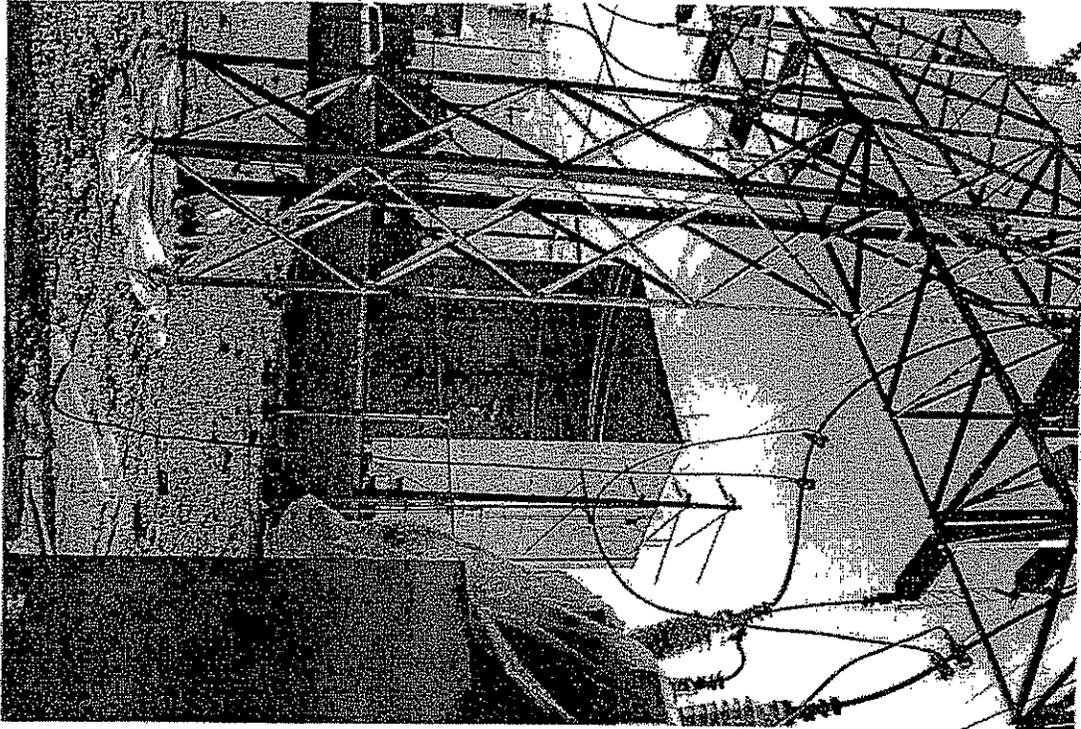
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<u>John Zato</u>	
<u>James McKeely</u>	

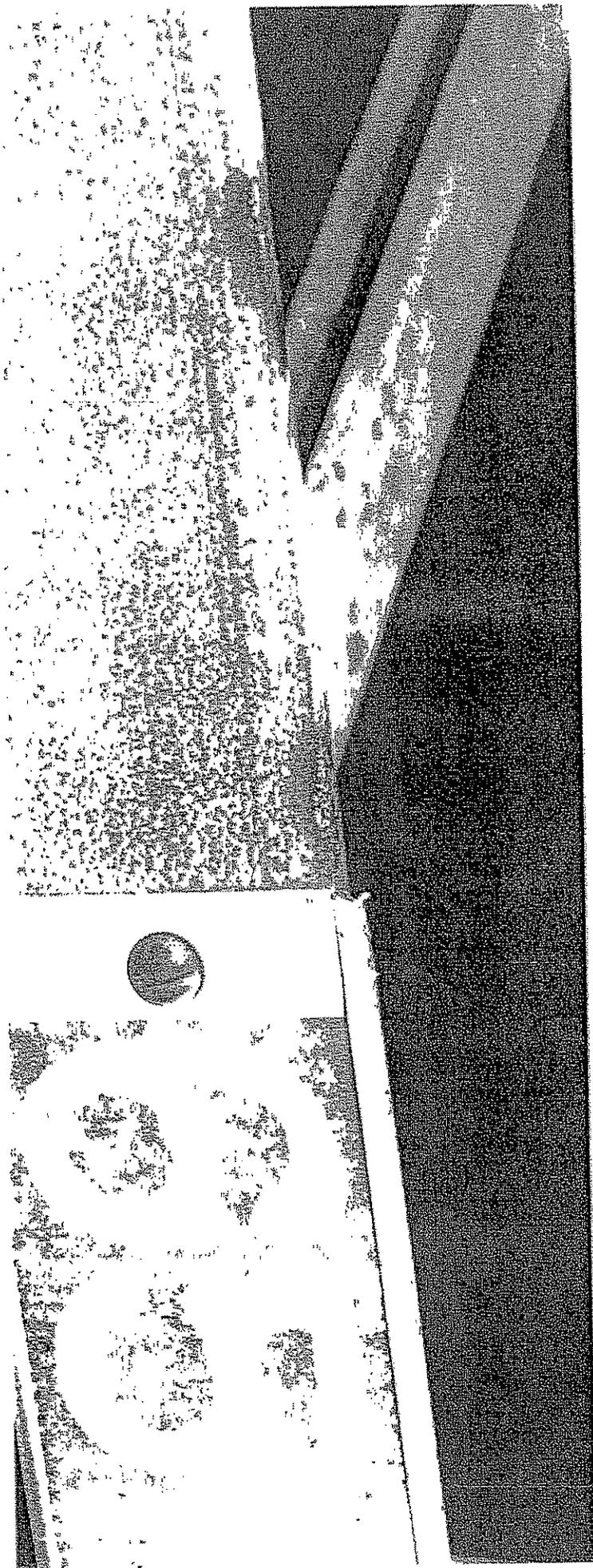


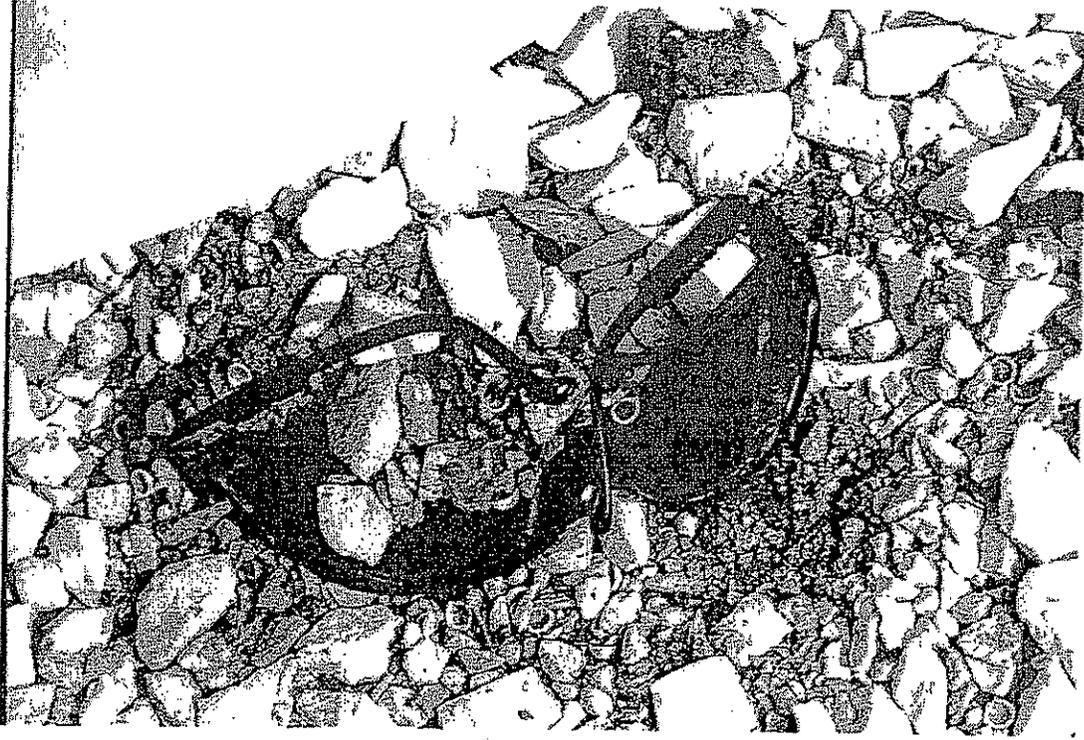


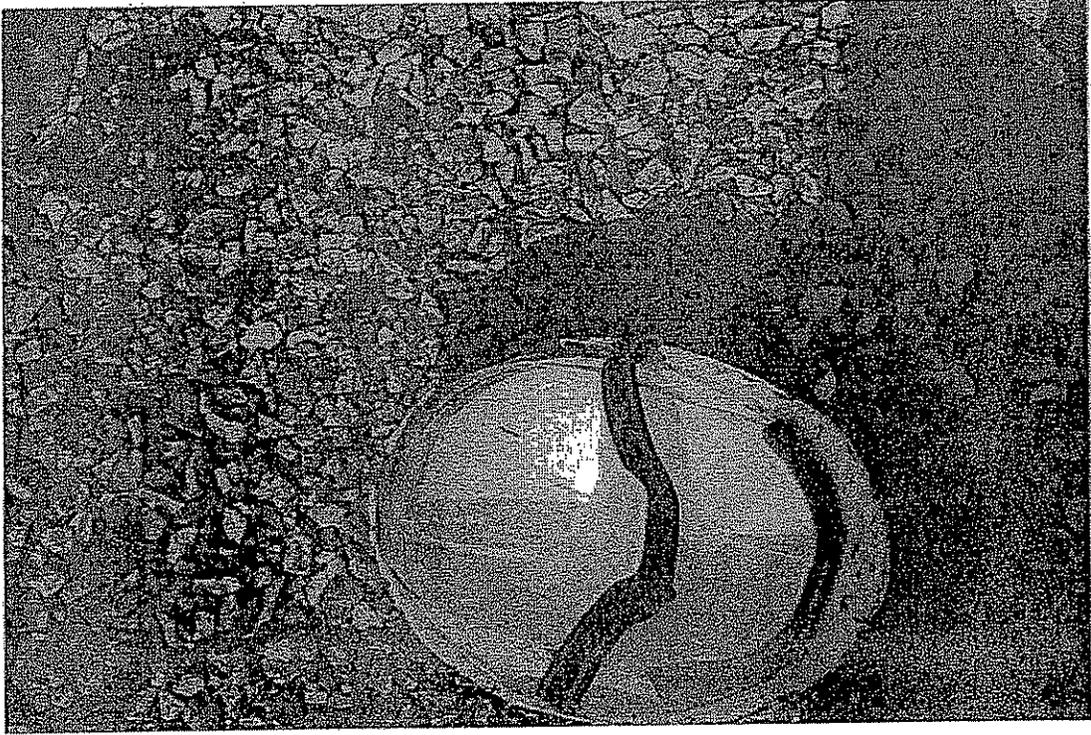


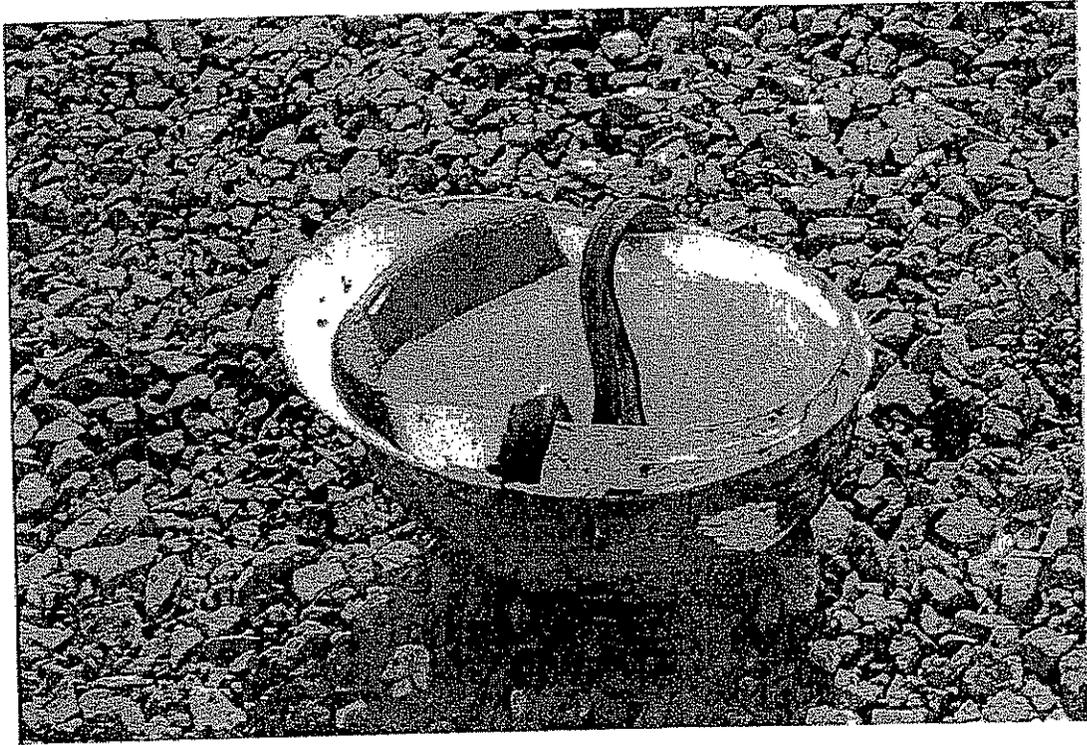
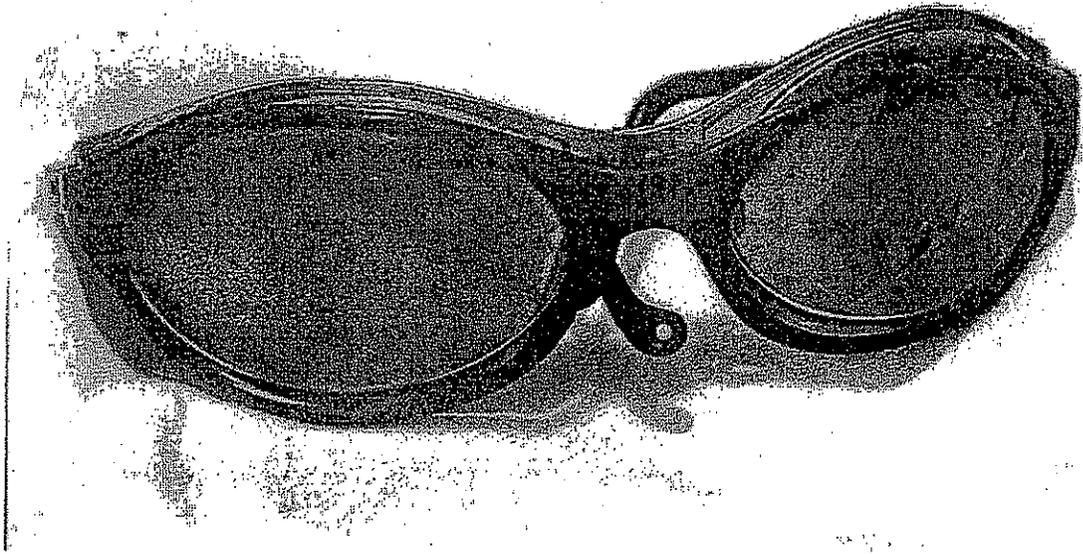


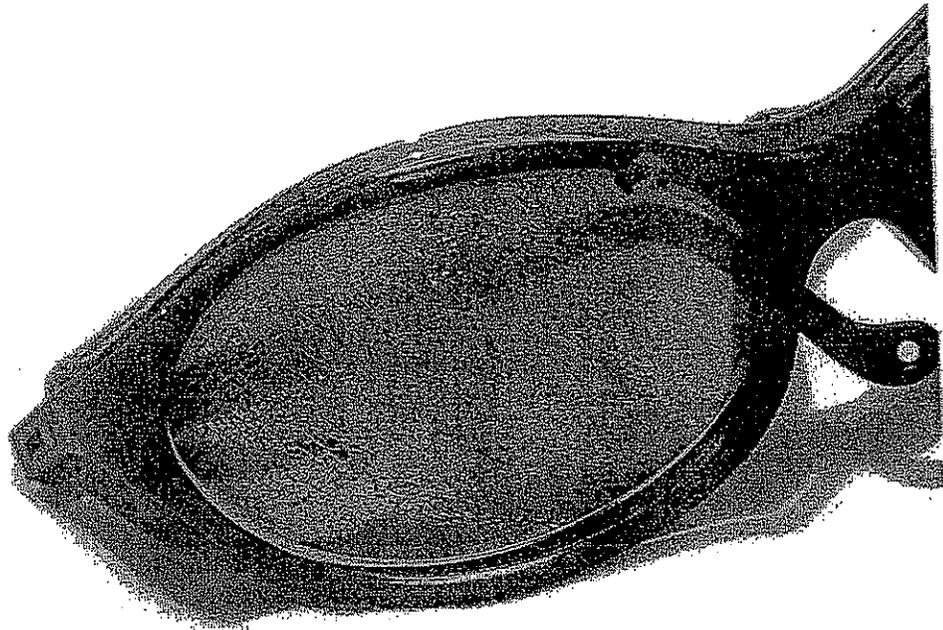
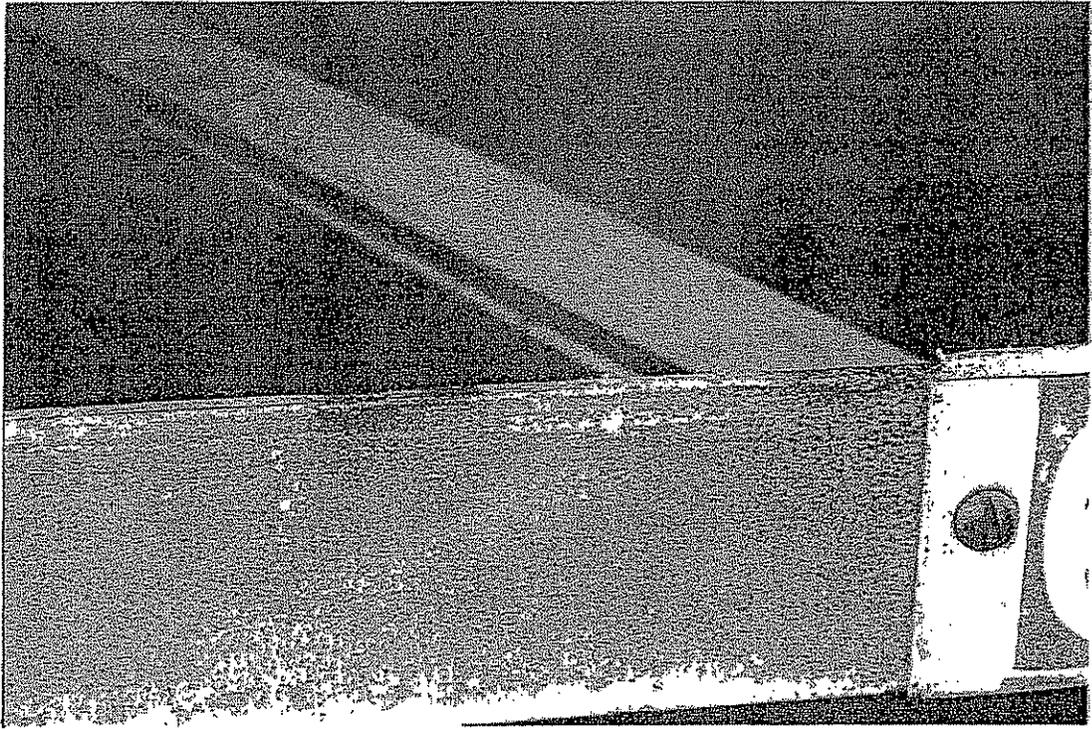


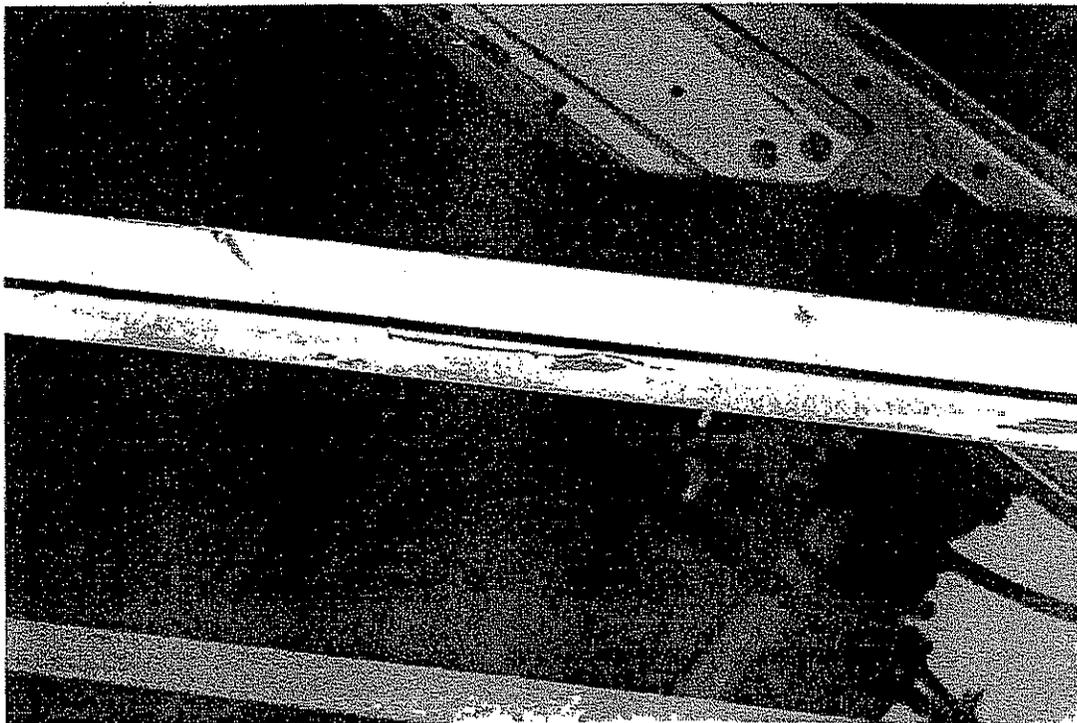
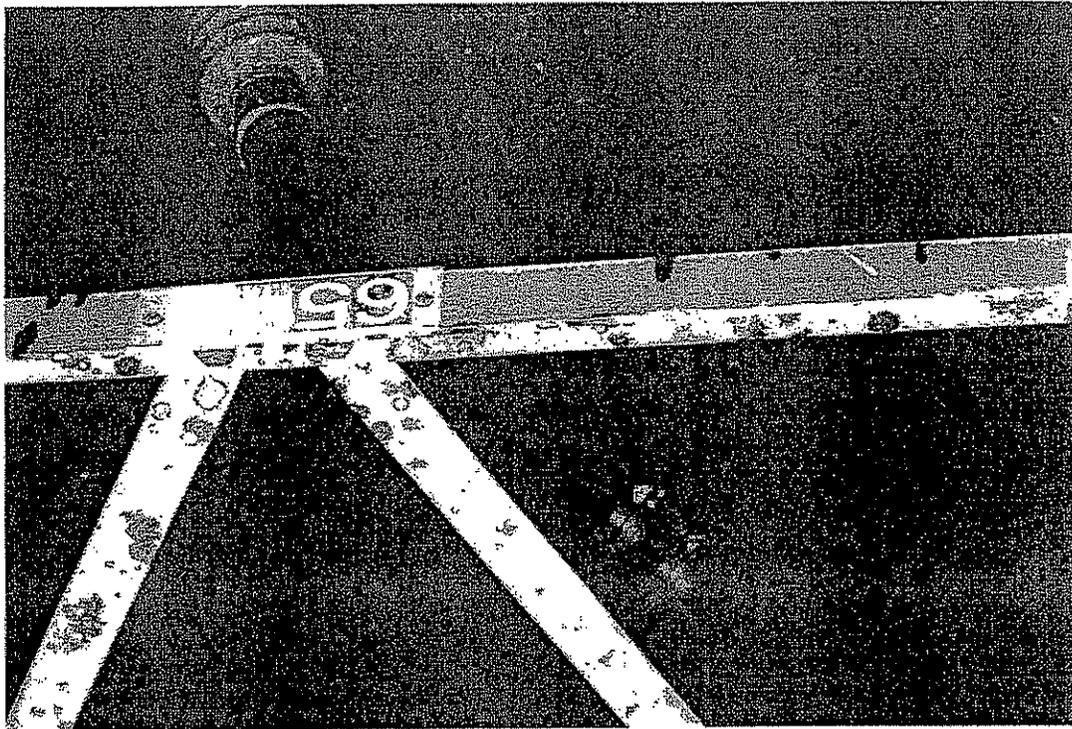


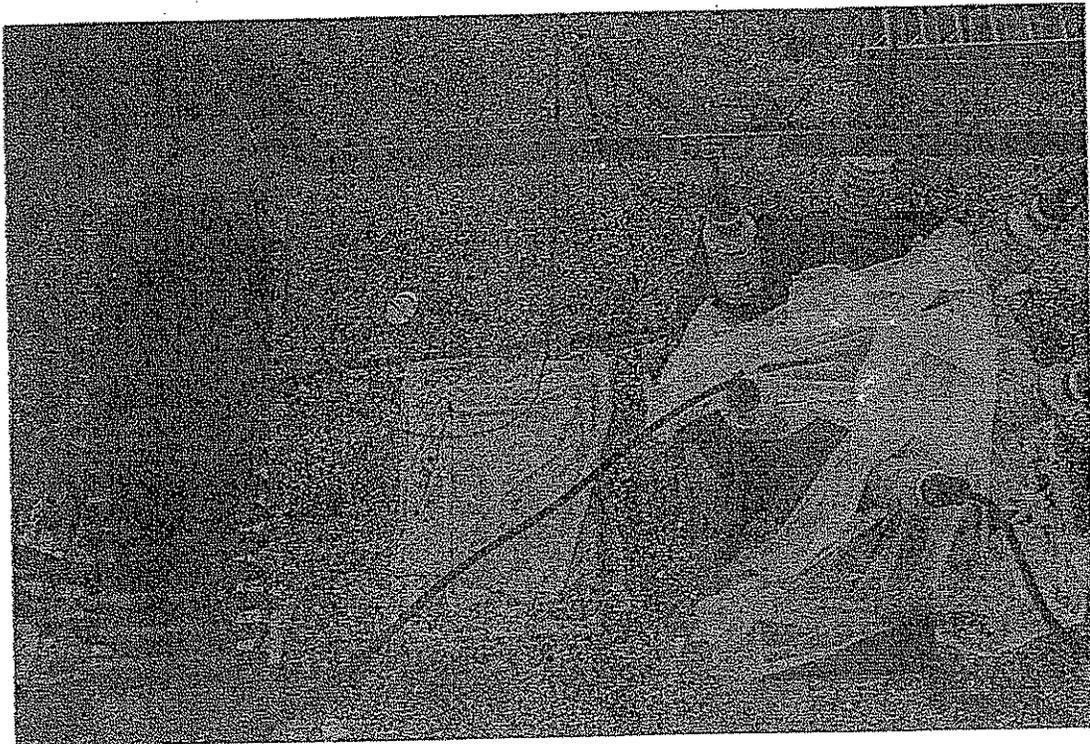














Attachment B

Text of Cited Violations

Section 42. General Rules for Employees

420. Personal General Precautions

A. Rules and Emergency Methods

1. Employees shall carefully read and study the safety rules, and may be called upon at any time to show their knowledge of the rules.
2. Employees shall familiarize themselves with approved methods of first aid, rescue techniques, and fire extinguishment.

B. Qualifications of Employees

1. Employees whose duties require working on or in the vicinity of energized equipment or lines shall perform only those tasks for which they are trained, equipped, authorized, and so directed. Inexperienced employees shall: (a) work under the direction of an experienced and qualified person at the site, and (b) perform only directed tasks.
2. If an employee is in doubt as to the safe performance of any assigned work, the employee shall request instructions from the employee's supervisor or person in charge.
3. Employees who do not normally work on or in the vicinity of electric supply lines and equipment but whose work brings them into these areas for certain tasks shall proceed with this work only when authorized by a qualified person.

C. Safeguarding Oneself and Others

1. Employees shall heed safety signs and signals and warn others who are in danger or in the vicinity of energized equipment or lines.
2. Employees shall report promptly to the proper authority any of the following:
 - a. Line or equipment defects such as abnormally sagging wires, broken insulators, broken poles, or lamp supports
 - b. Accidentally energized objects such as conduits, light fixtures, or guys
 - c. Other defects that may cause a dangerous condition
3. Employees whose duties do not require them to approach or handle electric equipment and lines shall keep away from such equipment or lines and should avoid working in areas where objects and materials may be dropped by persons working overhead.
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.
5. No employee shall approach or bring any conductive object, without a suitable insulating handle, closer to any exposed energized part than allowed by Rule 431 (communication) or Rule 441 (supply), as applicable.
6. Employees should exercise care when extending metal ropes, tapes, or wires parallel to and in the proximity of energized high-voltage lines because of induced voltages. When it is necessary to measure clearances from energized objects, only devices approved for the purpose shall be used.

D. Energized or Unknown Conditions

Employees shall consider electric supply equipment and lines to be energized, unless they are positively known to be de-energized. Before starting work, employees shall perform preliminary inspections or tests to determine existing conditions. Operating voltages of equipment and lines should be known before working on or in the vicinity of energized parts.

E. Ungrounded Metal Parts

Employees shall consider all ungrounded metal parts of equipment or devices such as transformer cases and circuit breaker housings, to be energized at the highest voltage to which they are exposed, unless these parts are known by test to be free from such voltage.

Attachment C

KPSC Photographs of Incident Site



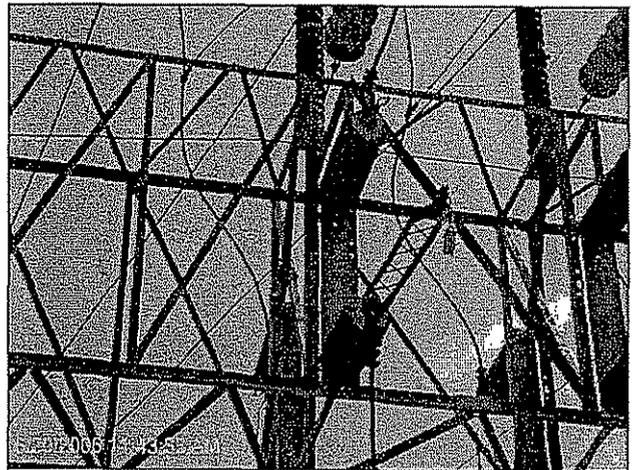
Area where Victim Fell after Contact



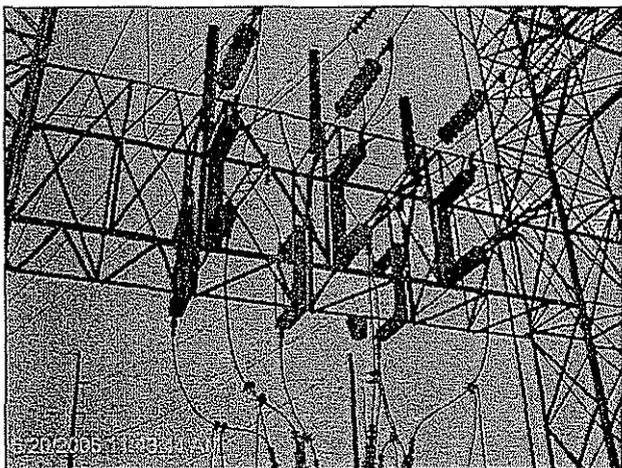
Area where Victim Fell after Contact



Burn marks on Steel at Disconnect



Disconnect involved in Accident



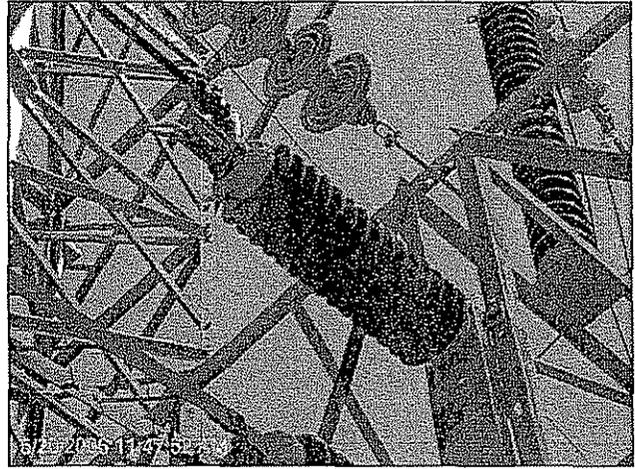
Area where Accident took Place



Area where Accident took place



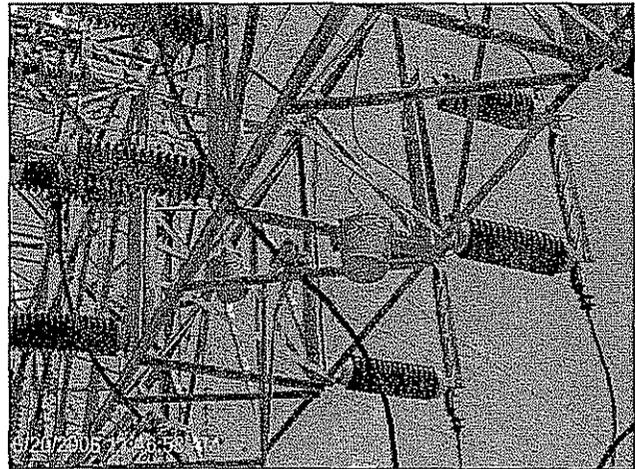
Area where Accident took place



Disconnect where Victim made contact



Burn Marks on Steel



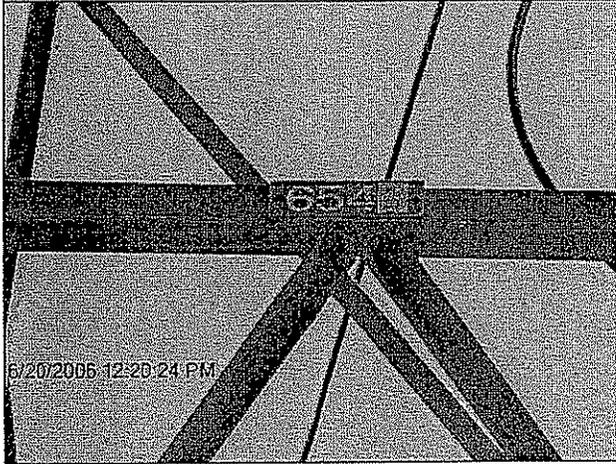
Location where Victim was Working at Time of Accident



Victim was working in the steel above this Breaker



Company Number of Breaker Involved in Accident



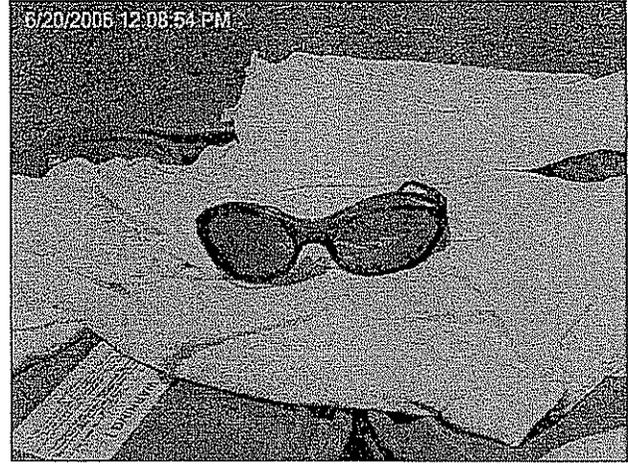
Company Number of Disconnect Involved In Accident



Safety Glasses worn by Victim



Safety Glasses worn by Victim



Safety Glasses worn by Victim

