COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

LOUISVILLE GAS AND ELECTRIC COMPANY)
)) CASE NO. 98-184
ALLEGED FAILURE TO COMPLY WITH)
ADMINISTRATIVE REGULATIONS 807 KAR)
5:006, SECTION 24, AND 807 KAR 5:041,)
SECTION 3	j

ORDER

Louisville Gas and Electric Company ("LG&E"), a Kentucky corporation which engages in the distribution of electricity to the public for compensation for lights, heat, power, and other uses, is a utility subject to Commission jurisdiction. KRS 278.010.

KRS 278.280(2) directs the Commission to prescribe rules and regulations for the performance of services by utilities. Pursuant to this statutory directive, the Commission promulgated Administrative Regulation 807 KAR 5:041, Section 3, which requires electric utilities to maintain their plant and facilities in accordance with the standards of the National Electrical Safety Code (1990 edition) ("NESC"). It further promulgated Administrative Regulation 807 KAR 5:006, Section 24, which requires all utilities to adopt and execute a safety program appropriate to their size and type of operations.

Commission Staff has submitted to the Commission a Utility Accident Investigation Report dated November 20, 1997, appended hereto, in which Commission Staff alleges:

1. On July 7, 1997, Walter Lovelace was injured as he repaired LG&E electric distribution facilities in Louisville, Kentucky.

- 2. At the time of the incident, LG&E had dispatched Lovelace and two other LG&E line technicians, Don Shipley and Gary Razor, to 3413 Bonaventure Boulevard, Louisville, Kentucky, to repair a pad mounted transformer. It had advised the line technicians that an elbow had blown off the bushing in Transformer No. 18. Upon arriving at the scene, the three line technicians switched the feed to Transformer No. 19 to return that transformer to service. They did not de-energize the 7200 volt primary feed to Transformer No. 18. After switching the feed to Transformer No. 19, Lovelace grabbed the blown elbow on the underground primary feed to Transformer No. 18 and received an electric shock.
- 3. At the time of the incident, Lovelace was not wearing or using the protective equipment which had been provided to him.
- 4. At the time of the incident, Lovelace was in charge of the work site and supervising the repair and maintenance activity.
- 5. As a result of his contact with the 7200 volt energized feed line, Lovelace suffered burns to his hands and forearms and required hospitalization.
- 6. NESC Rule 420H requires persons to use the personal protective equipment, protective devices, and special tools provided for their work.
- 7. NESC Rule 421A1 requires the person in charge of a work site to adopt such precautions as are within the individual's authority to prevent accidents.
- 8. NESC Rule 421A2 requires the person in charge of a work site to see that the safety rules and operating procedures are followed by those under his direction.

- 9. NESC Rule 441A1 prohibits an employee from approaching within certain distances an exposed line or part which is operating at certain voltages unless the line or part is de-energized, the employee is insulated from the energized line or part, the energized line or part is insulated from the employee, or the employee is insulated from all conducting surfaces other than the one upon which the employee is working.
- 10. LG&E's internal work rules and procedures require all employees to wear their personal protective equipment and to always assume that electrical equipment and conductors are energized until proven to be de-energized.
- 11. Lovelace violated NESC Section 420H when he failed to wear his protective rubber gloves when attempting to repair the pad mounted transformer.
- 12. Lovelace failed to see that all safety and operating procedures were observed at the work site. His failure is a violation of NESC Rule 421A which requires a person in charge to adopt such precautions as are within his authority to prevent accidents and to see that the all safety rules and operating procedures are observed by those under his direction.
- 13. Lovelace violated NESC Section 441A when he failed to wear his protective rubber gloves when attempting to repair the pad mounted transformer.
- 14. At the time of the incident, Lovelace was an employee of LG&E and acting in the scope of his employment.

Based on its review of the Utility Accident Investigation Report and being otherwise sufficiently advised, the Commission finds that <u>prima facie</u> evidence exists that

LG&E has failed to comply with Administrative Regulations 807 KAR 5:006, Section 24, and 807 KAR 5:041, Section 3.

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

- 1. LG&E shall appear before the Commission on July 29, 1998 at 9:00 a.m., Eastern Daylight Time, in Hearing Room 1 of the Commission's offices at 730 Schenkel Lane, Frankfort, Kentucky, for the purpose of presenting evidence concerning the alleged violations of Administrative Regulations 807 KAR 5:006, Section 24, and 807 KAR 5:041, Section 3, and of showing cause why it should not be subject to the penalties prescribed in KRS 278.990(1) for these alleged violations.
- 2. LG&E shall submit to the Commission within 20 days of the date of this Order a written response to the allegations contained in the Electrical Utility Accident Investigation Report.
- 3. The Utility Accident Investigation Report of November 20, 1997, a copy of which is appended hereto, is made part of the record of this proceeding.
- 4. Any motion requesting an informal conference with Commission Staff to consider any matter which would aid in the handling or disposition of this proceeding shall be filed with the Commission no later than 20 days from the date of this Order.

Done at Frankfort, Kentucky, this 27th day of April, 1998.

PUBLIC SERVICE COMMISSION

Chairman

Vice Ahairman

Commissioner

ATTEST.

Executive Director

APPENDIX A

AN APPENDIX TO AN ORDER OF THE KENTUCKY PUBLIC SERVICE COMMISSION IN CASE NO. 98-184 DATED APRIL 27, 1998

UTILITY ACCIDENT INVESTIGATION REPORT

Utility:	Louisville Gas and Electric	Louisville Gas and Electric					
Reported By:	Larry Miller	Larry Miller					
Dates & Times	·						
Accident Occurred:	07/20/97 - Approximately 7:04 p.m.						
Utility Notified:	07/20/97 - Approximately 7:15 p.m.						
PSC Notified:	07/20/97 - 8:02 p.m.						
Investigated:	07/21/97				·		
Written Report Rcvd:	07/25/97				· · · · · · · · · · · · · · · · · · ·		
Location of Accident:	3413 Bonaventure Boulevard, Louisville	3413 Bonaventure Boulevard, Louisville, Kentucky 40219					
Description of Accident:	Mr. Walter Lovelace was injured while working on the underground primary feed to a pad mounted transformer installation. Mr. Lovelace, Lead Line Technician and two fellow crew members, Don Shipley and Gary Razor, both Line Technicians, were dispatched to 3413 Bonaventure Boulevard to work a reported outage on an underground pad mounted transformer installation. Mr. Lovelace inadvertently made contact with an energized 7200 Volt underground primary feed to Transformer No. 18 during the work process. Mr. Lovelace was the Lead Line Technician at the accident site and was not wearing or using protective equipment at the time of the accident.						
Victims:							
Name:	Walter Lovelace	Fatal:	No	Age:	49		
Addr./Empl.:	1502 English Station Road, Louisville/Lo	ouisville G	as and Elec	etric			
Injuries:	Burns to both hands and forearms.	r			·		
Witnesses:	Name	Address	Employm	ent			
	Don Shipley - Line Technician (A)	Louisville	Gas and	Electric			
	Gary Razor - Line Technician (A)	Technician (A) Louisville Gas and Electric					
Sources of	Name -	Address/	Employm	ent			
Information:	Larry Miller	Louisville	e Gas and	Electric			
	Don Shipley	Louisville	e Gas and	Electric			
	Gary Razor	Louisville	e Gas and	Electric	·		

	Dave Ridge		Louisville Gas and Electric			
	Dave Britt		Louisville Gas and Electric			
Probable Violations:	Tools and Protective	ESC, 1990 Edition, Section 42 & 44, Rules for Supply Employees. Rule 420H. ools and Protective Equipment; Rule 421.A.1 & 2. General Operating Rules; ule 441A. Approach to Energized Conductors or Parts.				
Line Clearances At Point of Accident:	Measured	Measured Minimum Applicable NESC Edition Volt. NESC 1990				
Underground Pad Mounted Transformer Installation:	N/A	N/A	1990	7200	1979	
Date of Measurement:	N/A					
Approximate Temp.:	80°F	80°F				
Type of Facilities:	7200 Volt underground primary feed to pad mounted transformer. Last inspected on 08/28/95.					
Investigated By:	John W. Land					
Signed:	Johne J	Kanel				

- Attachments A. Louisville Gas and Electric's Accident Report B. Photographs of Accident Site

Current edition adopted by the Commission. If clearances are not in compliance with the current edition, then the edition in effect when the facilities were last constructed or modified would apply.

Attachment A
Louisville Gas and Electric's Accident Report



Louisville Gas and Electric Company 220 West Main Street P.O. Box 32010 Louisville, Kentucky 40232

INVESTIGATION REPORT

ELECTRICAL CONTACT

Type of Report

97-E-021A

Report Number

A L Miller

Investigator

JULY 21, 1997

· Date of Incident

Reference: Electrical Contact

Location:

3413 Bonaventure Blvd.

Louisville, KY. 40006

Case Summary:

Addendum:

On Sunday, July 20, 1997, at 19:50 hours, I arrived at the above address to investigate Walter Lovelace's accident, and met with the following Louisville Gas and Electric Company employees.

Fred Krebs

-- Manager ESD Service Center

Tony Highland. -- Sr. Distribution Operations Supervisor

Terry Tomes

-- Line Construction and Maintenance Supervisor

Dominic Simms -- Line Technician - Trouble

Jerry Belcher -- Line Technician - Trouble

Steve Jones

-- Senior Mechanic - Equipment Shop

Gary Darnall

-- Mechanic Helper - Equipment Shop

A SUBSIDIARY OF LG&ENERGY.

Investigation Report

Page 2.

Addendum:

On Monday, July 21, 1997, at 09:00 hours, I met with John Land, (Investigator with Public Service Commission) at the above address to investigate Walter Lovelace's accident.

The following Louisville Gas and Electric Company employees were also met with at the above address.

Mike Engleman -- Sr. Corporate Attorney

Doug Blakeman -- Director Electric Service Delivery
Fred Krebs -- Manager ESD Service Center

Dave Ridge -- Distribution Operations Supervisor

Steve Tacket -- Line Construction & Maintenance Supervisor

Chuck Carlton Jr. -- Health & Safety Specialist III

Tony Bullock -- Production Support Leader and Union Representative
John Probst -- Line Technician A and Safety Committee Chairman

Ron Hasch -- Job Coordinator- Distribution Operations

Gray Razor -- Line Technician A
Don Shipley -- Line Technician A

After leaving the above address we went to LG&E's South Service Center on Jennings Lane to view the pad mount transformer that was removed from the above address Sunday, July 20, 1997. Then we went to LG&E's East Service Center on Highway 22.

The followings LG&E employees were met with at South Service Center:

Mike Engleman -- Sr. Corporate Attorney

Doug Blakeman -- Director of Electric Service Delivered

Dave Britt -- Group Leader - Transformer Services Operations

Chuck Carlton -- Health & Safety Specialist III

Mike Hale -- Mechanic A - Equipment Shop

Richard Bullock -- Operator - Plant and Union Stewart

Al Judd -- Operator - Yard and Union Safety Representative

John Probst -- Line Technician A

Investigation Report Page 3.

The following LG&E employees were met with at East Service Center:

Fred Krebs -- Manager ESD Service Center

Steve Tacket -- Line Construction and maintenance Supervisor

Chuck Carlton -- Health and Safety Specialist III

Bob Webb -- Sr. Technical Training Instructor

Chuck Huber -- Sr. Technical Training Instructor

Al Judd -- Operator - Yard and Union Safety Representative

LOUISVILLE GAS AND ELECTRIC COMPANY

Post Office Box 32010 Louisville, Kentucky 40232 LG&E Fax: 627-2583 Confirmation: 627-

7-25-Date Attention Company City and State Confirmation Number From Number of Pages, INCLUDING Cover Page Subject Message

CONFIDENTIALITY NOTICE

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George R. Siemens, Jr.

Director
Fyrennal Affaira
LG&E Bullding
12th Floor
502-627-2323
502-627-2930 FAX

July 25, 1997

VIA FAX

Ms. Martha Morton, Manager Electric Branch Kentucky Public Service Commission P.O. Box 615 Frankfort, KY 40602

RE: Electrical Shock - 3413 Bonaventure Blvd.

Louisville, KY - July 20, 1997

Dear Ms. Morton:

Attached is an "Investigation Report" on the above incident which was prepared by Larry Miller. This is filed in compliance with the seven-day reporting requirement.

A hard copy of this report, along with photographs taken at the scene, will be forthcoming.

If you need additional information concerning this incident, please feel free to contact me at (502) 627-2323.

Sincerely,

Attachment



Louisville Gas and Electric Company 220 West Main Street F.O. Dox 32010 Louisville, Kentucky 40232

INVESTIGATION REPORT

ELECTRICAL SHOCK

Type of Report

97-E-021

Report Number

Date of Incident

A. L. Miller

Investigator

July 20, 1997

Reference: Electrical Shock

Location:

3413 Bonaventure Blvd.

Louisville, KY. 40219

Case Summary:

On Sunday, July 20, 1997, at approximately 19:15 hours, I received a call from Electric Trouble Department about an employee receiving an electrical shock. At 19:50 hours, I arrived at the above address and met with several LG&E employees. I was informed Walter A. Lovelace was working on the underground primary feed to a pad mounted transformer when he received the electrical shock.

Walter Lovelace, Lead Line Technician, was dispatched to 3413 Bonaventure Blvd. and was advised there was an elbow blown off the bushing in transformer no. 18. Walter Lovelace and fellow crew members, Don Shipley and Gary Razor, both Line Technicians, arrived on the site and switched the feed to transformer no. 19 to get it back on the line and failed to de-energize the feed to transformer no. 18. Mr. Lovelace received the 7200 volt shock when he grabbed the blown elbow on the normal underground primary feed to transformer no. 18 that is feed from transformer no. 11. Mr. Lovelace was wearing light weight leather gloves and kneeling on a rubber blanket at the time.

At 19:04 hours, Gary Razor reported the accident to Electric Trouble Department and requested the E.M.S. Misters Shipley and Razor began CPR on Mr. Lovelace. E.M.S. arrived on the scene and transported Mr. Lovelace to the University Hospital at approximately 19:35 hours.

A SUBSIDIARY OF LG8ENERGY_# Investigation Report Page 2

Mr. Lovelace received burns to both hands. He was released from the hospital Thursday, July 24, 1997.

At 20:02 hours, I notified Mr. John Land's answering machine and then I called Ms. Martha Morton, both with the Public Service Commission. Ms. Morton was informed the transformer and the elbow on the conductor would have to be changed out to get the customers back on line. She said to change the equipment out and John Land would meet with us Monday morning, July 21,1997.

Photographs were taken Sunday night and Monday morning at the accident site.

On Monday, July 21,1997, at approximately 09:00 hours, Mr. John Land arrived to investigate the accident.

Photographs and additional materials to follow under separate cover.



Louisville Gas and Electric Company 220 West Main Street P.O. Box 32010 Louisville, Kentucky 40232

INVESTIGATION REPORT

ELECTRICAL SHOCK

Type of Report

97-E-021

Report Number

A. L. Miller

Investigator

July 20, 1997

Date of Incident

Reference: Electrical Shock

Location:

3413 Bonaventure Blvd.

Louisville, KY. 40219

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A SUBSIDIARY OF

LG&ENERGY.

Investigation Report Page 2

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Fax Message From:

Jul 25 '97 14:21

Name: LG&E EXEC OF 12th FL. Fax Number: 1-502-627-2930

[]

LOUISVILLE GAS AND ELECTRIC COMPANY

Post Office Box 32010 Louisville, Kentucky 40232 LG&E Fax: 627-2583 Confirmation: 627-

Date 1-25-97				
Attention Milartha Morton, Manager				
Electric Branch		· <u>·</u> · <u>· · · · · · · · · · · · · · · ·</u>		
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Сошрапу				
City and State				,
Fax Number 1-502-564-1583 Confirmation Number			,·	
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LOOK BAKU

LOUISVILLE GAS AND ELECTRIC COMPANY

Post Office Box 32010 Louisville, Kentucky 40232 LG&E Fax: 627-2583 Confirmation: 627-

Date Attention Company City and State Confirmation Number Fax Number From Number of Pages, INCLUDING Cover Page Subject Message

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George R. Siemens, Jr.

Director External Affairs LG&E Building 12th Floor 502-627-2323 502-627-2930 FAX

July 25, 1997

VIA FAX

Ms. Martha Morton, Manager Electric Branch Kentucky Public Service Commission P.O. Box 615 Frankfort, KY 40602

RE:

Electrical Shock - 3413 Bonaventure Blvd.

Louisville, KY - July 20, 1997

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A hard copy of this report, along with photographs taken at the scene, will be forthcoming.

If you need additional information concerning this incident, please feel free to contact me at (502) 627-2323.

Sincerely.

Attachment



August 5, 1997

Louisville Gas and Electric Company 220 West Main Street P.O. Box 32010 Louisville, Kentucky 40232

Ms. Martha Morton, Manager Electric Branch Kentucky Public Service Commission P. O. Box 615 Frankfort, KY 40602

> RE: Electric Shock - 3413 Bonaventure Blvd. Louisville, KY - July 20, 1997

Dear Ms. Morton:

Attached is the additional information requested relating to the incident indicated above.

If you need any additional information, please let me know. I can be reached at (502) 627-4883.

They & Fergan

Gregory B. Fergason

Regulatory Affairs Coordinator

Attachment

NAME: W.A. LOU	IELACE		EMPLOYEE NUMBER:	24	197
CLASSIFICATION:_	SENIOR C	ABIE	SplicER		

TRAINING SESSION	TIME	DATE TAKEN	REMARKS
Trouble shooting Overhead Lines	4 mes.	11-14.94	
Trouble shooting.	4425.	11-14-94	GOMPLETE
GROWNO COMM. EQUID	G 1+13	11-15-94	
Hurtman Rescue	2 mas	11-15-54	GOMPLETER
Socia Fissing for Equiple	8HUS.	11-16-94	
Transfer & Mountains	4 m.	11-17-94	
ARCATECT INSTALLATION OF JAPIAN CHITCH		i	COMPLETEN
100 M DUCTOR 51265	,	11-13-74	
GEENGOISEA	8	10-14-96	Pased
FAIL Protection	2_	6-12-97	Passed
rall Place Control			1,72,000
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NAME: WALT LOVELACE EMPLOYEE NUMBER: 2497

CLASSIFICATION: PHASE II INSTRUCTOR

CECCION	TIME	DATE TAKEN	REMARKS
TRAINING SESSION	TITATE	DATE TAKEL	INDIVIDUALISM .
~ ~ ~ ~	1	ا ا	AEREII
GETGGØIPRO	12 Ars	5-24-73	use of Propose / Devices
			BSH\$73
GET GG\$2 HRD	4 45	5-24-93	URD Hardware / Alsterial
	1	11115	ASRCIL
GETGG Ø3 SPL	6 Hrs	3 4.43	Secondary Coste Splicing
GETGGFJJ	1	V> 11 -	A 5 K 8 9 7
C== C= XU = 2.4	8-22	25-93	
GET GG 84 TRM	District Control	<u> </u>	Inst / Replace of Termin.
	(5)////20	5-26 0 93	
GET GG ØS ELD	40 7-5		URD Exetrical Diagrams
		5.26.83	ACKAGT
GET GG 86 SWL	8 Hrs	5-27-93	Swetch Logic/ Energ. Procedure
		5-27-93	AERB 11
GET GG Ø7 TRP	8 Hrs	5-28-23	Advanced Trans, Principles
			•
GETGG 88 TEM	1 4-5	5-38-53	Installation of Temp Ser
GE10698 121			
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NAME: W.A. LOVELACE, SR. (WALT) EMPLOYEE NUMBER: 2497

CLASSIFICATION: SENIOR CABLE SPLICER

TRAINING SESSION	TIME	DATE TAKEN	REMARKS
GET001	1/2 HR	6-26-91	COMPLETED
G55003	8 HR	3.12.92	COMPLETED
GEGND2333	3	5-26-92	GUMPLETED
GEENGOZCPE	4	3/12/93	
GEENGOL BIP	4	3/12/93	COMPLETED .
BESNGCUPKA	40	7/12-16/93	COMPLETED
GEENGOISFA	8	3/23/94	
GEENG \$15FA	ड	10/14/96	PASSED
FATT Protection	2	6/12/97	Passed
			é.
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2497

NAME_ W.A.	hovelace		EMPLOYEE	NUMBER	
	SEA	110R		<u> </u>	
CLASSIFICATION	Cable	Solicee	X		

		·	
TRAINING SESSION	TIME	DATE TAKEN	REMARKS
Mwi - Disser	31/2	9-15-87	
hood buster	15.	9-15-87	
5-0" R-LE	1 1/1	5-13-98	Pec
Rucket Truck	12 Hr		
Haz-zemm	144	ニタア	
Mus I.	4412	11-1-88	
Nus 2.1	11 412	11-1-88	
RM-TE W	8	0-16-60	VC 7 1.
PM-II Q			Successful
SFA	SHR	03-08-89	CPR-84 FA-88
AEOC16		1-16-90	83% OK
AE∞17	8 HR	1-17-90	75% F
AEOC!9	5 HR	1-17-90	8690 OK
AEOC18	4HR	1-18-90	100% OK
AEOCZO	8 HR	1-19-90	82% OK
GSSØZØ		2-15-90	80%
GSSØ22	4HR	2-15-90	COMPLETE
GSSØ2Ø	4HR	2-7-91	80%
GSS-025	4HR	2-7-91	GUMPLETIE
	24HR	6-5-91 THRU 6-7-91	GOMPLETED (APS)

FAGE

EMPRP1 LOUISVILLE GAS & ELECTRIC CO. DATE 07/21/FT

EMPLOYEE COURSE LISTING THE 14.50/35

		* *****	•		CLASS	
EMP	NAME	DOURFE	COURSELTITLE .	DATE	STATUS	HOURS
	TWT TUTTEUROETER					
2457	% A LÖVELACE SR		STANDARD FIRST ALD	96/10/14		5.00
	W A LOVELACE SR		BASIC FACILITATION	75/09/13	С	8.00
T497	W A LOVELACE SR	TRCHEBMESE	TAKING SHORTCUTS	95/08/29	C	
2497	W A LOVELACE BR	GEENGBVI SN	BAFETY VISION	96/08/29	С	.50
2497	W A LOVELACE BR	REENBSTREE		95/07/31		1.00
2457	W A LOVELACE SR	TSIGNSOCO9O	- PROCESS-IMPROV FACILITATORS	95/06/11-	-c	20:00
2497	W A LOVELACE SR	63EN600032	PARKING AND BACKING	95/05/01	C	1.00
2497	W A LOVELACE SR	GEENGSLIPS	SLIPS, TRIPS, AND FALLS	75/03/01	С	1.00
2497	W A LOVELACE SR	TAE0001	PROTECTIVE EQUIPMENT	-95/12/11-	- C	4.00
2497	W A LOVELACE SR	AETCERM	BASIC MATHEMATICS	95/12/11	С	5.5 0
2497	W A LOVELACE SR	RETOSUTWR	USE OF TWO-WAY RADIOS	95/12/11	С	3.00
2497	WALDVELACE SR	AETCGCUCST-	CARE/USE-CABLE SPLICER TOOLS	95/12/11-	c	4.50
2497	W A LOVELACE SR	AETOGWOTM	WIRE/CABLE-TYPES & MATERIALS	95/12/11	С	4.00
2497	W A LOVELACE SR	AETCGTF	TRANSFORMER FUNDAMENTALS	95/12/11	С	3.50
	WTATLOVELACE SR				- c	
2497	W A LOVELACE SR	AETCGISBMC	INSTALLATION SPLICE BOX/MOLES	95/12/11	С	3.50
2497	W A LOVELACE SR	AETCGLA	LIGHTNING ARRESTERS	95/12/11	С	4.00
2497	W A LOVELACE SR	-AETCGI	- INSULATORS	95/12/11-		2.50
2497	W A LOVELACE SR	AETCGFF	FUSES AND FUSING	95/12/11		7.00
	W A LOVELACE SR	AETCGBSRW	BASIC STRINGING / REM'L WIRE	95/12/11	•	3.00
	W A LOVELACE SR	-ASTOGES		95/12/11	-	4.00
2497	W A LOVELACE SR	AETCGSTB	SECONDARY TIE BREAKERS	95/12/11		5.00
2497	W A LOVELACE SR	AETCESL	STREET LIGHTING		C	8.00
	W A LOVELACE SR		-SECONDARY-CABLE-SPLICING			
2497			C/U OF SIMPLE LINEMAN TOOLS	95/12/11		5.00 5.00
2497	W A LOVELACE SR		"C" CLASS ASSESSMENT PROGRAM	95/12/11		2.00
	-W-A-LOVELACE-SR		-INTRODUCTION-TO WINDOWS'95			
2497	W A LOVELACE SR		ACCIDENT INVESTIGATION	95/11/09	_	4,00
2497	W A LOVELACE SR		BUCKET TRUCK RESCUE	75/11/07 75/11/02		
	W A LOVELACE SR		- BOOKET TROOK REBOOK - PERSONAL-PROTECTIVE EQUIPMENT		-	2.00
	W A LOVELACE SR			95/10/23		1.00
	·		SEXUAL HARASSMENT		-	. 25
2497	W A LOVELACE SR		SAFETY VISION KICKOFF		C	1.50
	WALDVELACE SR			95/10/17-	=	
2497	W A LOVELACE SR	GETNTTCB	SEC TIED BREAKERS	95/10/04	_	.25
2497	W A LOVELACE SR		STANDARD FIRST AID	95/09/12	_	8.00
			-BEHAVIOR BASED SAFETY TRAINING			3.00
	W A LOVELACE SR		HAZ COM FLAMMABLE LIQUIDS	95/06/12	-	1.00
2497			NO FALL PROTECTION	95/05/10	_	2.00
	W-A-LOVELACE-SR		CODE: OF: BUSINESS CONDUCT			1.00
	W A LOVELACE SR		GOVERNOR'S SAFETY & HEALTH CNF		-	24.00
	W A LOVELACE SR		HAZ COM LABELING	95/03/29	C	1.00
	W-A-LOVELACE-SR			-95/0 3/15-	•	
	W A LOVELACE SR		TRAIN THE NUS TRAINER	95/03/02	-	8.00
2497	W A LOVELACE SR	GEENTOXYMO	DXYGEN MONITORING	95/02/15	С	.50

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LOUISVILLE GAS & ELECTRIC CO. DATE 07/21/97
EMPLOYEE COURSE LISTING TIME 14.50.35 EMPRF1

COURSE C		A			CLASS	CLASS	CLASS
2497 W A LOVELACE SR SEENSUERN 1910.289 DVERVLEN 95/02/03 C 2.00	EMP	NAME	COURSE	COURSE_TITLE	DATE	STATUS	HOURS
2497 W A LOVELACE SR GEENSOSHA DSNA 29CFR. 1910.265 TRAININS 95/01/13 C	<i>_</i>	atte unte bale. Per	~ ~ ~ ~ ~	able hade two two path tries are two right free data area.			*** *** *** ***
2497 W A LOVELACE SR GENEADHA TRI-STATE ELEC. SYMPOSIUM 95/01/11 C 2.00 2497 W A LOVELACE SR GENEADHASI PHASE 3 TRAINING METHOD 95/01/11 C 2.00 2497 W A LOVELACE SR GETGERHASI PHASE 3 TRAINING METHOD 95/01/11 C 5.00 2497 W A LOVELACE SR GETGESTLEN SECONDOR, SIZES & WIRE SPLIC 94/11/18 C 5.01 2497 W A LOVELACE SR GETGESTLEN SECONDOR, SIZES & WIRE SPLIC 94/11/18 C 5.00 2497 W A LOVELACE SR GETGESTLEN SECONDOR, SIZES & WIRE SPLIC 94/11/17 C 4.00 2497 W A LOVELACE SR GETGESTLEN SECONDOR, TRAINING 94/11/17 C 4.00 2497 W A LOVELACE SR GETGESTLEN HURT MAR RESCUE 94/11/16 C 2.00 2497 W A LOVELACE SR GETGESTLEN HURT MAR RESCUE 94/11/16 C 6.00 2497 W A LOVELACE SR GETGESTREN HURT MAR RESCUE 94/11/16 C 6.00 2497 W A LOVELACE SR GETGESTREN HURT MAR RESCUE 94/11/16 C 6.00 2497 W A LOVELACE SR GETGESTREN TROUBLE-SHOOTING OH TRANSF. 94/11/14 C 4.00 2497 W A LOVELACE SR GETGESTREN TROUBLE-SHOOTING OH TRANSF. 94/11/14 C 4.00 2497 W A LOVELACE SR GENEAUPTE BLODDERDER FATHOSESS UPPATE 94/11/14 C 1.00 2497 W A LOVELACE SR GENESTREN TROUBLE-SHOOTING OH TRANSF. 94/11/14 C 1.00 2497 W A LOVELACE SR GENESOOVE SED TASK FORCE TEAM TRAINING 94/09/18 C 1.00 2497 W A LOVELACE SR GENESOOVE SED TASK FORCE TEAM TRAINING 94/09/18 C 1.00 2497 W A LOVELACE SR GENESOOVE SED TASK FORCE TEAM TRAINING 94/09/18 C 1.00 2497 W A LOVELACE SR GENESOOVE SED TASK FORCE TEAM TRAINING 94/09/18 C 1.00 2497 W A LOVELACE SR GENESOOVE SED TASK FORCE TEAM TRAINING 94/09/10 C 1.00 2497 W A LOVELACE SR GENESOOVE STANDARD FIRST ALD 94/09/20 C 1.00 2497 W A LOVELACE SR GENESOOVE WAS STANDARD FIRST ALD 94/09/20 C 1.00 2497 W A LOVELACE SR GENESOOVE WAS STANDARD FIRST ALD 94/09/20 C 1.00 2497 W A LOVELACE SR GENESOOVE WAS STANDARD FIRST ALD 94/09/20 C 5.00 2497 W A LOVELACE SR GENESOOVE WAS STANDARD FIRST ALD 94/09/20 C 5.00 2497 W A LOVELACE SR GENESOOVE WAS STANDARD FIRST AND 94/09/20 C 5.00 2497 W A LOVELACE SR GENESOOVE WAS STANDARD FIRST AND 94/09/20 C 5.00 2497 W A LOVELACE SR GENESOOVE FOR STANDARD FIRST ALD 94/09/20 C 5.00 2497 W A LOVELACE SR GENESOOVE FOR STA	2497	W A LOVELACE SR	BEENGOVERV	1910.269 DVERVIEW	95/02/03	-C	2.00
2497 W A LOVELACE SR GETSPHASS FAMS FALLOWS A FALLOWS STALLING CONDUCT. SIZES & WIRE SPLIC S4/11/18 C 0.01 2497 W A LOVELACE SR GETSGENIC CONDUCT. SIZES & WIRE SPLIC S4/11/18 C 0.00 2497 W A LOVELACE SR GETSGENIC CONDUCT. SIZES & WIRE SPLIC S4/11/18 C 0.00 2497 W A LOVELACE SR GETSGENIC SECONDARY TIE BREAKERS 34/11/17 C 4.00 2497 W A LOVELACE SR GETSGENIC SECONDARY TIE BREAKERS 34/11/17 C 0.00 2497 W A LOVELACE SR GETSGENIC SECONDARY TIE BREAKERS 34/11/17 C 0.00 2497 W A LOVELACE SR GETSGENIC SALLOW SECONDARY TIE BREAKERS 34/11/17 C 0.00 2497 W A LOVELACE SR GETSGENIC SALLOW SECONDARY TIE BREAKERS 34/11/17 C 0.00 2497 W A LOVELACE SR GETSGENIC SHOW THAT THAT WE SHALLOW SECONDARY TIE BREAKER STALLOW SECONDARY TIE BREAKER SECONDARY TRUBBLE-SHOOTINS ON TRANSE, S4/11/14 C 4.00 2497 W A LOVELACE SR GETSGENOOPE BLODDOBORNE PATHOGENS UPDATE 54/11/14 C 4.00 2497 W A LOVELACE SR GETSGENOOPE BLODDOBORNE PATHOGENS UPDATE 54/11/14 C 1.00 2497 W A LOVELACE SR GETSTENOOPE BLODDOBORNE PATHOGENS UPDATE 54/11/14 C 1.00 2497 W A LOVELACE SR GETSTENOOPE BLODDOBORNE PATHOGENS UPDATE 54/11/14 C 1.00 2497 W A LOVELACE SR GETSTENOOPE BLODDOBORNE PATHOGENS UPDATE 54/11/14 C 1.00 2497 W A LOVELACE SR GETSTENOOPE BLODDOBORNE PATHOGENS UPDATE 54/11/14 C 1.00 2497 W A LOVELACE SR GETSTENOOPE BLODDOBORNE PATHOGENS UPDATE 54/11/14 C 1.00 2497 W A LOVELACE SR GETSTENOOPE SATENOPE STALLOW THE WAS THE WA	2497	W A LOVELACE SR	GEENGOSHA	DSHĄ 29CFR. 1910.269 TRAINING	95/01/24	С	16.00
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2497 W A LOVELACE SR GETSTRBTR TROUSLE-SHOOTING OH TRANSF 94/11/14 C 4.00 2497 W A LOVELACE SR GETSTRBTR TROUSLE-SHOOTING OH TRANSF 94/11/14 C 1.00 2497 W A LOVELACE SR GETSTBTR TROUSLE-SHOOTING OH TRANSF 94/11/14 C 1.00 2497 W A LOVELACE SR GETSTBTR TROUSLE-SHOOTING OH TRANSF 94/11/19 C 1.00 2497 W A LOVELACE SR GETSTBTR TROUSLE-SHOOTING OH TRANSF 94/11/19 C 1.00 2497 W A LOVELACE SR GETSTBOLVE HAZ-COM HALDGENATED SOLVENTS 54/11/10/19 C 1.00 2497 W A LOVELACE SR GETSTBOLVE HAZ-COM HALDGENATED SOLVENTS 54/11/10/19 C 1.00 2497 W A LOVELACE SR GETSTBOLVE HAZ-COM HALDGENATED SOLVENTS 54/10/19 C 1.00 2497 W A LOVELACE SR GETSTBOLVE HAZ-COM HALDGENATED SOLVENTS 54/08/03 C 2.00 2497 W A LOVELACE SR GETSTBOLL S-VIOLENCE IN THE WORKPLACE 94/06/19 C 1.00 2497 W A LOVELACE SR GENSTBALLS FAMILY AND HODICAL LEAVE ACT 94/06/20 C 1.00 2497 W A LOVELACE SR GENSTBOLTA HAZ-COM HABITS IT ALL ABOUT 94/03/23 C 3.00 2497 W A LOVELACE SR GENSTBOLTA HAZ-COM HABITS IT ALL ABOUT 94/03/23 C 3.00 2497 W A LOVELACE SR GENSTBOLTA HAZ-COM HABITS IT ALL ABOUT 94/03/23 C 3.00 2497 W A LOVELACE SR GENSTBOLT HAZ-COM HABITS IT ALL ABOUT 94/03/23 C 3.00 2497 W A LOVELACE SR GENSTBOLT HAD	. 2497	W A LOVELACE SR	GETGGGRND				6.00
2497 W A LOVELACE SR GEENSUPDTE BLODDBORNE PATHOGENS UPDATE 54/10/19 C 1.00 2497 W A LOVELACE SR GEENSBOLVE HAZ-COTH MALOGENATED SOLVENTS 54/10/19 C 1.00 2497 W A LOVELACE SR GEDNSOOD75 ESD TASK FORCE TEAM TRAINING 94/08/18 C 9.00 2497 W A LOVELACE SR GETNTOOOD1 SAFETY AWARENESS 54/08/03 C 2.00 2497 W A LOVELACE SR GETNTOOOD1 SAFETY AWARENESS 54/08/03 C 2.00 2497 W A LOVELACE SR GENTOOD01 SAFETY AWARENESS 54/08/03 C 1.00 2497 W A LOVELACE SR GENSOLITAT HAZ-COM, WHAT'S IT ALL ABOUT 54/08/20 C 1.00 2497 W A LOVELACE SR GENSOLITAT HAZ-COM, WHAT'S IT ALL ABOUT 54/08/20 C 1.00 2497 W A LOVELACE SR GENSOLITAT STANDARD FIRST ALD 54/08/20 C 1.00 2497 W A LOVELACE SR GENTOCOMIN WHAT'S IT ALL ABOUT 54/08/20 C 1.00 2497 W A LOVELACE SR GENTOCOMIN WHAT'S IT ALL ABOUT 54/08/20 C 1.00 2497 W A LOVELACE SR GENTOCOMIN WHAT'S IT ALL ABOUT 54/08/20 C 1.00 2497 W A LOVELACE SR GENTOCOMIN WHAT'S IT ALL ABOUT 54/08/20 C 1.00 2497 W A LOVELACE SR GENTOCOMIN WHAT'S IT ALL ABOUT 54/08/20 C 1.00 2497 W A LOVELACE SR GENTOCOMIN WHAT'S IT ALL ABOUT 54/08/20 C 1.00 2497 W A LOVELACE SR GENTOCOMIN WHAT'S IT ALL ABOUT 54/08/20 C 1.00 2497 W A LOVELACE SR GENTOCOMIN WHAT'S IT ALL ABOUT 54/08/20 C 1.00 2497 W A LOVELACE SR GENTSOLO COLD WEATHER SAFETY 54/02/09 C 50 2497 W A LOVELACE SR GESTSOLO COLD WEATHER SAFETY 54/01/07 C 50 2497 W A LOVELACE SR GESTSOLO COLD WEATHER SAFETY 54/01/07 C 50 2497 W A LOVELACE SR GESTSOLO FAULTED CIRCUIT INDICATORS 53/12/17 C 1.00 2497 W A LOVELACE SR GESTSOLO FA COCUMINTS TRAINING 53/12/17 C 1.00 2497 W A LOVELACE SR GESTSOLO FA COCUMINTS TRAINING 53/12/14 C 1.00 2497 W A LOVELACE SR GESTSOLO FA COCUMINTS TRAINING 53/12/14 C 1.00 2497 W A LOVELACE SR GESTSOLO FA COCUMINTS TRAINING 53/12/14 C 1.00 2497 W A LOVELACE SR GESTSOLO FA COCUMINTS TRAINING 53/12/14 C 1.00 2497 W A LOVELACE SR GESTSOLO FA COCUMINTS TRAINING 53/12/14 C 1.00 2497 W A LOVELACE SR GESTSOLO FA COCUMINTS TRAINING 53/05/28 C 1.00 2497 W A LOVELACE SR GETSOOTER ADVANCED TRAINS 93/05/28 C 1.00 2497 W A LOVELACE SR GETSOOTER ADVANCED TRAINS 93/05	. 2497	W A LOVELACE SR	GETGGTRBOH				4,00
2497 W A LOVELACE SR GEENSUPLE BLODDBORNE PATHOGENS UPDATE \$4/10/19 C 1.00 2497 W A LOVELACE SR GEENSSOLVE HAZ-COM HALDGENATED SOLVENTS \$4/10/05 C 1.00 2497 W A LOVELACE SR GENTOOOD1 SAFETY AWARENESS \$4/08/03 C 2.00 2497 W A LOVELACE SR GETNTOOD1 SAFETY AWARENESS \$4/08/03 C 2.00 2497 W A LOVELACE SR GENTEMPATE SOLVENTE IN THE WORKPLACE \$4/08/20 C 1.00 2497 W A LOVELACE SR GENTEMPATE SAFETY \$4/08/20 C 1.00 2497 W A LOVELACE SR GENSOLFAT HAZ-COM, WHAT'S IT ALL ABOUT \$4/04/20 C 1.00 2497 W A LOVELACE SR GENSOLFAT STANDARD FIRST AID \$4/03/23 C 2.00 2497 W A LOVELACE SR GENTEMPATE STANDARD FIRST AID \$4/03/23 C 2.00 2497 W A LOVELACE SR GENTOOD COMMUNITY RELATIONS \$4/02/07 C 5.0 2497 W A LOVELACE SR GENTY SAFETY \$4/02/09 C 5.0 2497 W A LOVELACE SR GENTY SAFETY \$4/02/09 C 5.0 2497 W A LOVELACE SR GENTY SAFETY \$4/02/07 C 5.0 2497 W A LOVELACE SR GENTY SAFETY \$4/01/07 C 5.0 2497 W A LOVELACE SR GENTY SAFETY \$4/01/07 C 5.0 2497 W A LOVELACE SR GENTY SAFETY \$4/01/07 C 5.0 2497 W A LOVELACE SR GENTY SAFETY \$4/01/07 C 5.0 2497 W A LOVELACE SR GENTY SAFETY \$4/01/07 C 5.0 2497 W A LOVELACE SR GENTY SAFETY \$4/01/07 C 5.0 2497 W A LOVELACE SR GENTY SAFETY \$4/01/07 C 5.0 2497 W A LOVELACE SR GENTY SAFETY \$4/01/07 C 5.0 2497 W A LOVELACE SR GENTS SOLD HAMBER SAFETY \$4/01/07 C 5.0 2497 W A LOVELACE SR GENTS SOLD HAMBER SAFETY \$4/01/07 C 5.0 2497 W A LOVELACE SR GENTS SOLD HAMBER SAFETY \$4/01/07 C 5.0 2497 W A LOVELACE SR GENTS SOLD HAMBER SAFETY \$4/01/07 C 5.0 2497 W A LOVELACE SR GENTS SOLD HAMBER SAFETY \$4/01/07 C 5.0 2497 W A LOVELACE SR GENTS SOLD HAMBER SAFETY \$4/01/07 C 5.0 2497 W A LOVELACE SR GENTS SOLD HAMBER SAFETY \$4/01/07 C 5.0 2497 W A LOVELACE SR GENTS SOLD HAMBER SAFETY \$4/01/07 C 5.0 2497 W A LOVELACE SR GENTS SOLD HAMBER SAFETY \$4/01/07 C 5.0 2497 W A LOVELACE SR GENTS SOLD HAMBER SAFETY \$4/01/07 C 5.0 2497 W A LOVELACE SR GENTS SOLD HAMBER SAFETY \$4/01/07 C 5.0 2497 W A LOVELACE SR GENTS SOLD HAMBER SAFETY \$4/01/07 C 5.0 2497 W A LOVELACE SR GENTS SOLD HAMBER SAFETY \$4/01/07 C 5.0 2497 W A LOVELACE SR GENTS SOLD	2497	WATEOVELACE SR	-GETGSTRBTR-	TROUBLE-SHOOTING OH TRANSF.	94/11/14	€	4.00
2497 W A LOVELACE SR GDONSOOO76 ESD TASK FORCE TEAM TRAININS 94/08/18 C 2.00 2497 W A LOVELACE SR MEENSWPVIL C 2.00 2497 W A LOVELACE SR MEENSWPVIL C 1.00 2497 W A LOVELACE SR GEUNTFAMLA FAMILY AND MEDICAL LEAVE ACT 94/06/20 C 1.00 2497 W A LOVELACE SR GEENSOISFA STANDARD FIRST ALL ABOUT 74/04/20 C 1.00 2497 W A LOVELACE SR GEENSOISFA STANDARD FIRST ALL BROUT 74/04/20 C 1.00 2497 W A LOVELACE SR GDUNTCOMUN COMMUNITY RELATIONS 94/02/11 C 75 2497 W A LOVELACE SR GDUNTCOMUN COMMUNITY RELATIONS 94/02/01 C 50 2497 W A LOVELACE SR GGENSBLK REGULATORY AFFAIRS INFORMATION 74/02/03 C 1.00 2497 W A LOVELACE SR GGENTSANO C 600 2497 W A LOVELACE SR GETNHETER MINIT-GIANT TRAINING F3/10/20 C 600 2497 W A LOVELACE SR GETNHETER MINIT-GIANT TRAINING F3/06/28 C 600 2497 W A LOVELACE SR GETNHETER MINIT-GIANT TRAINING F3/06/29 C 600 2497 W A LOVELACE SR GETNHETER MINIT-GIANT TRAINING F3/06/29 C 600 2497 W A LOVELACE SR GETNHETER MINIT-GIANT TRAINING F3/06/29 C 600 2497 W A LOVELACE SR GETNHETER MINIT-GIANT TRAINING F3/06/29 C 600 2497 W A LOVELACE SR GETGGOTTEP ADVANCED TRANS. PRITICAL F16660 F3/06/29 C 600 2497 W A LOVELACE SR GETGGOTTEP ADVANCED TRANS. PRITICAL F16660	2497	W A LOVELACE SR	GEENGUPDTE	BLOODBORNE PATHOGENS UPDATE			1.00
2497 W A LOVELACE SR GETNTOOOOI SAFETY AWARENESS 54/08/03 C 2.00 2497 W A LOVELACE SR MEENGMPYL S-VIOLENCE IN THE WORKPLACE 94/07/13 C 1.00 2497 W A LOVELACE SR GEUNTFAMLA FAMILY AND MEDICAL LEAVE ACT 54/04/20 C 1.00 2497 W A LOVELACE SR GEENGOIHAZ HAZ-COM, WHAT'S IT ALL ABOUT 54/04/20 C 1.00 2497 W A LOVELACE SR GEENGOIHAZ HAZ-COM, WHAT'S IT ALL ABOUT 54/04/20 C 1.00 2497 W A LOVELACE SR GEENGOIHAZ HAZ-COM, WHAT'S IT ALL ABOUT 54/04/20 C 5.00 2497 W A LOVELACE SR GEENGOIHAZ HAZ-COM, WHAT'S IT ALL ABOUT 54/04/20 C 5.00 2497 W A LOVELACE SR GEENTJANI NINCH LINE SAFETY 54/02/10 C 5.50 2497 W A LOVELACE SR GEENTJANI WINCH LINE SAFETY 54/02/09 C 5.00 2497 W A LOVELACE SR GEENTJANI WINCH LINE SAFETY 54/02/09 C 5.00 2497 W A LOVELACE SR GEENTSHOOT COLD WEATHER SAFETY 54/01/07 C 5.00 2497 W A LOVELACE SR GEENTSHOOT FAULTED CIRCUIT INDICATORS 54/01/07 C 5.00 2497 W A LOVELACE SR GEENTSHOOT FAULTED CIRCUIT INDICATORS 54/01/07 C 5.00 2497 W A LOVELACE SR GEENGBHOOT BLOODBORNE PATHOSENS UPDATE 53/12/14 C 1.00 2497 W A LOVELACE SR GEENGBHOOT BLOODBORNE PATHOSENS UPDATE 53/12/14 C 1.00 2497 W A LOVELACE SR GEENGBHOOT BLOODBORNE PATHOSENS UPDATE 53/11/03 C 5.00 2497 W A LOVELACE SR GEONGHISTO TRANSFORMER FIELD TICKETS 53/11/03 C 5.00 2497 W A LOVELACE SR GEONGHESTO TRANSFORMER FIELD TICKETS 53/11/03 C 5.00 2497 W A LOVELACE SR GEONGHESTO TRANSFORMER FIELD TICKETS 53/11/03 C 5.00 2497 W A LOVELACE SR GETNHETRAN MINI-GIANT TRAINING 93/09/22 C 1.00 2497 W A LOVELACE SR GETNHETRAN MINI-GIANT TRAINING 93/09/22 C 1.00 2497 W A LOVELACE SR GETGGOSED WINDER A FORMAN LEADER SKILLS 93/07/16 C 40.00 2497 W A LOVELACE SR GETGGOSED WINDER A FORMAN LEADER SKILLS 93/07/16 C 40.00 2497 W A LOVELACE SR GETGGOSED WINDER A FORMAN LEADER SKILLS 93/07/16 C 40.00 2497 W A LOVELACE SR GETGGOSED WINDER A FORMAN LEADER SKILLS 93/05/28 C 5.00 2497 W A LOVELACE SR GETGGOSED WINDER A FORMAN LEADER SKILLS 93/05/28 C 5.00 2497 W A LOVELACE SR GETGGOSED WINDER A FORMAN LEADER SKILLS 93/05/26 C 5.00 2497 W A LOVELACE SR GETGGOSED WINDER MINIS PROPERS 93/05	2497	W A LOVELACE SR	GEENGSOLVE	HAZ-COM HALOGENATED SOLVENTS	54/10/05	C	1.00
2497 W A LOVELACE SR MEENSWPVIL S-VIOLENCE IN THE WORKPLACE 94/07/18 C 1.00 2497 W A LOVELACE SR GEUNTFAMLA FAMILY AND MEDICAL LEAVE ACT 94/06/20 C 1.00 2497 W A LOVELACE SR GEENSOIHAZ HAZ-COM, WHAT'S IT ALL ABOUT 94/04/20 C 1.00 2497 W A LOVELACE SR GEENSOIHAZ HAZ-COM, WHAT'S IT ALL ABOUT 94/04/20 C 1.00 2497 W A LOVELACE SR GEENSOISFA STANDARD FIRST AID 94/03/23 C 8.00 2497 W A LOVELACE SR GEENSOISFA STANDARD FIRST AID 94/02/09 C 5.00 2497 W A LOVELACE SR GEENTJANI WINCH LINE SAFETY 94/02/09 C 5.00 2497 W A LOVELACE SR GEENTJANI WINCH LINE SAFETY 94/02/09 C 5.00 2497 W A LOVELACE SR GEENTJANI WINCH LINE SAFETY 94/02/07 C 5.00 2497 W A LOVELACE SR GEENTJANI WINCH LINE SAFETY 94/01/07 C 5.00 2497 W A LOVELACE SR GEENTJANO 2 FABLLTED CIRCUIT INDICATORS 94/01/07 C 5.00 2497 W A LOVELACE SR GEENTJANO 2 FABLLTED CIRCUIT INDICATORS 94/01/07 C 5.00 2497 W A LOVELACE SR GEENTJANO 2 FABLLTED CIRCUIT INDICATORS 94/01/07 C 5.00 2497 W A LOVELACE SR GEENGBLOOI BLOODBORNE PATHOSENS UPDATE 93/12/17 C 1.00 2497 W A LOVELACE SR GEENGENDIT DIT HMISI SHIPPING PAPERS 53/12/17 C 2.00 2497 W A LOVELACE SR GEENGENDIT TRANSFORMER FIELD TICKETS 93/11/03 C 2.00 2497 W A LOVELACE SR GEENGENDIT TRANSFORMER FIELD TICKETS 93/11/03 C 2.00 2497 W A LOVELACE SR GETNHGIANT MINI-GIANT TRAINING 93/10/20 C 2.00 2497 W A LOVELACE SR GETNHGIANT MINI-GIANT TRAINING 93/10/20 C 2.00 2497 W A LOVELACE SR GETNGENTER AUTOMATED METER READING 93/09/22 C 1.00 2497 W A LOVELACE SR GETGGOTTEP ADVANCED TRANS. PRINCIPLES 93/05/29 C 8.00 2497 W A LOVELACE SR GETGGOTTEP ADVANCED TRANS. PRINCIPLES 93/05/29 C 8.00 2497 W A LOVELACE SR GETGGOTTEP ADVANCED TRANS. PRINCIPLES 93/05/29 C 8.00 2497 W A LOVELACE SR GETGGOTTEP ADVANCED TRANS. PRINCIPLES 93/05/29 C 8.00 2497 W A LOVELACE SR GETGGOTTEP ADVANCED TRANS. PRINCIPLES 93/05/29 C 8.00 2497 W A LOVELACE SR GETGGOTTEP ADVANCED TRANS. PRINCIPLES 93/05/29 C 8.00 2497 W A LOVELACE SR GETGGOTTEP ADVANCED TRANS. PRINCIPLES 93/05/29 C 8.00 2497 W A LOVELACE SR GETGGOTTEP ADVANCED TRANS. PRINCIPLES 93/05/29 C 8.00 2497 W A	2497	W A LOVELACE SR	- GD0NG00076	ESD TASK FORCE TEAM TRAINING	94/08/19	0	8.00
2497 W A LOVELACE SR SEUNTFAMLA FAMILY AND MEDICAL LEAVE ACT 94/06/20 C 1.00	. 2497	W A LOVELACE SR	GETNT00001	SAFETY AWARENESS	54/08/03	С	2.00
2497 W A LOVELACE SR SEUNTFAMLA FAMILY AND MEDICAL LEAVE ACT 94/06/20 C 1.00	2497	W A LOVELACE SR	MEENGWPVIL	S-VIOLENCE IN THE WORKPLACE	94/07/18	С	1.00
2497 W A LOVELACE SR GEENGOIHAZ HAZ-COM, WHAT'S IT ALL ABOUT \$4/04/20 C 1.00 2497 W A LOVELACE SR GEENGOISFA STANDARD FIRST AID \$4/03/23 C 8.00 2497 W A LOVELACE SR GENTYAND COMMUNITY RELATIONS 94/02/11 C	2497	- W A LOVELACE SR			94/06/20 -	C ·	1.00
2497 W A LOVELACE SR GEENGOISFA STANDARD FIRST AID 94/03/23 C 5.00 2497 W A LOVELACE SR GDUNTCOMUN COMMUNITY RELATIONS 94/02/11 C .75 2497 W A LOVELACE SR GENTJANI WINCH LINE SAFETY 94/02/09 C .50 2497 W A LOVELACE SR GOGNAMBELK REGULATORY AFFAIRS INFORMATION 74/02/03 C 1.00 2497 W A LOVELACE SR GENT94001 COLD WEATHER SAFETY 94/01/07 C .50 2497 W A LOVELACE SR GETN54002 FAULTED CIRCUIT INDICATORS 94/01/07 C .50 2497 W A LOVELACE SR GETN54002 FAULTED CIRCUIT INDICATORS 94/01/07 C .50 2497 W A LOVELACE SR GETN54002 FAULTED CIRCUIT INDICATORS 94/01/07 C .50 2497 W A LOVELACE SR GENTSGLOT ESC CLASS OF ACCOUNTS TRAINING 93/12/17 C .100 2497 W A LOVELACE SR GENGELOOT BLOODBORNE FATHOGENS UPDATE 93/12/14 C .100 2497 W A LOVELACE SR GENGELOOT BLOODBORNE FATHOGENS UPDATE 93/12/14 C .100 2497 W A LOVELACE SR GENGIRSOI TRANSFORMER FIELD TICKETS 93/11/03 C .500 2497 W A LOVELACE SR GETNHGIANT MINI-GIANT TRAINING 93/09/22 C .000 2497 W A LOVELACE SR GETNHGIANT MINI-GIANT TRAINING 93/09/22 C .000 2497 W A LOVELACE SR GETNHGIANT MINI-GIANT TRAINING 93/09/22 C .000 2497 W A LOVELACE SR GETNHGIANT MINI-GIANT TRAINING 93/09/22 C .000 2497 W A LOVELACE SR GETGGOTRE ADVANCED TRANS. PRINCIPLES 93/05/28 C .000 2497 W A LOVELACE SR GETGGOTRE ADVANCED TRANS. PRINCIPLES 93/05/28 C .000 2497 W A LOVELACE SR GETGGOTEN INSTALLATION OF TEMPORARY SERV 93/05/28 C .000 2497 W A LOVELACE SR GETGGOTEN INSTALLATION OF TEMPORARY SERV 93/05/26 C .000 2497 W A LOVELACE SR GETGGOTEN INSTALLATION OF TEMPORARY SERV 93/05/26 C .000 2497 W A LOVELACE SR GETGGOTEN INSTALLATION OF TEMPORARY SERV 93/05/26 C .000 2497 W A LOVELACE SR GETGGOTEN INSTALLATION OF TEMPORARY SERV 93/05/26 C .000 2497 W A LOVELACE SR GETGGOTEN INSTALLATION OF TEMPORAPE STANDARD SA/03/12 C .000 2497 W A LOVELACE SR GETGGOTEN INSTALLATION OF TEMPORAPE STANDARD SA/03/12 C .000 2497 W A LOVELACE SR GETGGOTEN ON THE SA/03/12 C .000 2497 W A LOVELACE SR GETGGOTEN SECVENTION 93/03/12 C .000 2497 W A LOVELACE SR GETGGOTEN SECVENTION 93/03/12 C .000 2497 W A LOVELACE SR GETGGOTEN DES DES F	2497				94/04/20	С	1,00
2497 W A LOVELACE SR GENTIANI WINCH LINE SAFETY 54/02/09 C .50 2497 W A LOVELACE SR GESTIJANI WINCH LINE SAFETY 54/02/09 C .50 2497 W A LOVELACE SR GESTIJANI WINCH LINE SAFETY 54/02/09 C .50 2497 W A LOVELACE SR GESTIJANI WINCH LINE SAFETY 54/02/03 C .50 2497 W A LOVELACE SR GESTIPHOOL COLD WEATHER SAFETY 54/01/07 C .50 2497 W A LOVELACE SR GESTIPHOOL FAULTED CIRCUIT INDICATORS 54/01/07 C .50 2497 W A LOVELACE SR GESTIPHOOL BLOODBERNE FATHOSENS UPDATE 53/12/17 C .1.00 2497 W A LOVELACE SR GESTIPHOOL BLOODBERNE FATHOSENS UPDATE 73/12/17 C .1.00 2497 W A LOVELACE SR GESTIPHOOL BLOODBERNE FATHOSENS UPDATE 73/12/14 C .1.00 2497 W A LOVELACE SR GESTIPHOOL TRANSFORMER FIELD TICKETS 53/11/03 C .50 2497 W A LOVELACE SR GESTIPHOOL TRANSFORMER FIELD TICKETS 53/11/03 C .50 2497 W A LOVELACE SR GESTIPHOOL TRANSFORMER FIELD TICKETS 53/11/03 C .50 2497 W A LOVELACE SR GESTIPHOOL TRANSFORMER FIELD TICKETS 53/11/03 C .50 2497 W A LOVELACE SR GESTIPHOOL TRANSFORMER FIELD TICKETS 53/11/03 C .50 2497 W A LOVELACE SR GESTIPHOOL THAT TRAINING 53/09/22 C 1.00 2497 W A LOVELACE SR GESTIPHOOL TRANSFORMER SKILLS 53/05/29 C .00 2497 W A LOVELACE SR GESTIPHOOL TRANSFORMER SKILLS 53/05/29 C .8.00 2497 W A LOVELACE SR GESTIPHOOL TRANSFORMER SKILLS 53/05/29 C .8.00 2497 W A LOVELACE SR GESTIPHOOL TRANSFORMER SKILLS 53/05/29 C .8.00 2497 W A LOVELACE SR GESTIPHOOL TRANSFORMER SKILLS 53/05/29 C .8.00 2497 W A LOVELACE SR GESTIPHOOL TRANSFORMER STANDER ST	2497	W A LOVELACE SR	GEENGO1SFA	STANDARD FIRST AID	•		
2497 W A LOVELACE SR GEENTJANI WINCH LINE SAFETY 94/02/09 C	2497	TOW A LOVELACE SETTING					
2497 W A LOVELACE SR GEENT94001 COLD WEATHER SAFETY 94/01/07 C 50 2497 W A LOVELACE SR GETNT94002 FAULTED CIRCUIT INDICATORS 94/01/07 C 50 2497 W A LOVELACE SR GEGNTCACCT ESC CLASS OF ACCOUNTS TRAINING 53/12/17 C 1.00 2497 W A LOVELACE SR GEENGBLOOT BLODDBORNE PATHOGENS UPDATE 93/12/14 C 1.00 2497 W A LOVELACE SR GEENGBLOOT BLODDBORNE PATHOGENS UPDATE 93/12/13 C 2.00 2497 W A LOVELACE SR GEGNSTRSOI TRANSFORMER FIELD TICKETS 93/11/03 C 50 2497 W A LOVELACE SR GETNHGIANT MINI-GIANT TRAINING 93/10/26 C 2.00 2497 W A LOVELACE SR GETNHETER AUTOMATED METER READING 93/09/22 C 1.00 2497 W A LOVELACE SR GETSOTTRP ADVANCED TRANS. PRINCIPLES 93/05/28 C 8.00 2497 W A LOVELACE SR GETGGOSTRP ADVANCED TRANS. PRINCIPLES 93/05/28 C 8.00 2497 W A LOVELACE SR GETGGOSTRP ADVANCED TRANS. PRINCIPLES 93/05/28 C 8.00 2497 W A LOVELACE SR GETGGOSTRP MONACED TRANS. PRINCIPLES 93/05/28 C 8.00 2497 W A LOVELACE SR GETGGOSTRP MONACED TRANS. PRINCIPLES 93/05/26 C 8.00 2497 W A LOVELACE SR GETGGOSTRP MONACED TRANS. PRINCIPLES 93/05/26 C 8.00 2497 W A LOVELACE SR GETGGOSTRP MONACED TRANS. PRINCIPLES 93/05/26 C 8.00 2497 W A LOVELACE SR GETGGOSTRP MONACED TRANS. PRINCIPLES 93/05/26 C 8.00 2497 W A LOVELACE SR GETGGOSTRD URD ELECTRICAL DIAGRAMS 93/05/26 C 8.00 2497 W A LOVELACE SR GETGGOSTRO USE OF PROPANE & PROP DEVICES 93/05/26 C 8.00 2497 W A LOVELACE SR GETGGOTPRO USE OF PROPANE & PROP DEVICES 93/05/26 C 8.00 2497 W A LOVELACE SR GETGGOATRN INSTALL. & REPLACEMENT OF TERM 93/05/25 C 8.00 2497 W A LOVELACE SR GETGGOATRN INSTALL. & REPLACEMENT OF TERM 93/05/26 C 8.00 2497 W A LOVELACE SR GETGGOATRN INSTALL. & REPLACEMENT OF TERM 93/05/26 C 8.00 2497 W A LOVELACE SR GETGGOATRN INSTALL. & REPLACEMENT OF TERM 93/05/26 C 8.00 2497 W A LOVELACE SR GETGGOATRN INSTALL. & REPLACEMENT OF TERM 93/05/26 C 8.00 2497 W A LOVELACE SR GETGGOATRN INSTALL. & REPLACEMENT OF TERM 93/05/26 C 8.00 2497 W A LOVELACE SR GETGGOATRN INSTALL & REPLACEMENT OF TERM 93/05/2							
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LOUISVILLE GAS & ELECTRIC CO. EMPLOYEE COURSE LISTING

DATE 07/21/97 TIMET14.50:35

EMP	NAME	COURSE	COURSE_TITLE	DATE	CLASS - STATUS	CLASS HOURS
2497		GEENHHVOLT	THIGH VOLTAGE TRAINING	72/10/10	_	3.00
2497		GDGNGRH001	ROBER HALE EMPLOYEE MEETING	92/07/27	C	2.50
2497	· · · · · · · · · · · · · · · · · · ·	GEENGHIVLT	HIGH VOLTAGE DEMONSTRATION	92/07/07	Ľ	1.50
2497		GEGND000003	"FIELD AMBASADOR TRAINING"	92/05/26	· C	8.00
2497		GEENGO1SFA	STANDARD FIRST AID	92/03/12	С	8.00
2497	W A LOVELACE SR	GDRNG0001	MANAGING CUSTOMER INTERACTION	92/02/19	С	15.00
2497	W A LOVELACE SR	GDUNGCD002	CULTURAL DIVERSITY PHASE I	72/02/06	C	3.00
2497	W A LOVELACE SR	GXGNL00042	CULTURAL DIVERSITY	92/02/06	С	4.00
2497	W A LOVELACE SR	GET002	STANDARDS SEMINAR	91/07/31	C.	1.50
2497	W A LOVELACE SR	SET001	HI-POT TEST SEMINAR	791/05/26	. C	1.50
2497	W A LOVELACE SR	636008	ANALYTICAL PROBLEM SOLVING	91/06/05	С	24.00
2497	W A LOVELACE SR	GDENG40232	DEFENSIVE DRIVING	91/05/21	С	8.00
2497	W A LOVELACE SR	655020	ADULT CPR RECERTIFICATION	~91702707~	-C	-00.00
2497	W A LOVELACE SR	GSS025	BACK INJURY PREVENTION	91/02/07	C	4.00
2497	W A LOVELACE SR	655020	ADULT CPR RECERTIFICATION	90/02/15	C	4.00
2497	W A LOVELACE SR	538022	"HAZARI" COMMUNICATION TRAINING	~90/02/15 °	C	4.00
2497	W A LOVELACE SR	AEDC20	STREET LIGHTING	90/01/19	С	9.00
2497	W A LOVELACE SR	AEDC18	BASIC SERVICES	90/01/18	С	4.00
2497	W A LOVELACE SR	AEDC17	BASIC STRINGING/REMOVAL WIRE	-90701717-	- F	8.00
2497	W A LOVELACE SR	AEDC19	SECONDARY TIE BREAKERS	90/01/17	С	5.00
2497	₩ A LOVELACE SR	AEDC16	FUSES & FUSING	90/01/16	С	7.00
2497	W A LOVELACE SR	G35018	STNDRD FIRST AID/CPR	-89/03/08-	-c	:00-
2497	W A LOVELACE SR	BTF002	ORIENTATION TO FCTP	87/03/01	С	1.00
2497	W A LOVELACE SR	AE0921	BASIC METERS	89/01/18	ε	8.00
2497	W A LOVELACE SR	AEDEO1	-DRIENTATION TO TWO-SYSTEMS &EQ-		-c	4.50-
2497	W A LOVELACE SR	BTS001	SAFETY IN T&D MAINTENANCE		Č	4.00
2497		BTP001	FIVE FOOT RULE	89/05/13	Ċ	1.00

TOTAL	CMD	2407

543.76

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-543.76----

NAME:	DON	SHIPLEY	EMPLOYEE NUMBER:	3216

CLASSIFICATION: LINETECHNICIAN A

TRAINING SESSION	TIME	DATE TAKEN	REMARKS
BASIC ELECTRICITY REVIEW	4 HRS	5/14/97	COMPLETED
HIGH VOLTAGE A.C. POWER	4.5 HRS	5/15/97	COMPLETED
ELECTROMAGNETIC INDUCTION REVIEW	4 HRS	5/14/97	CUMPIETED
TRANSFORMERS ! TRANSF. BANKS	8 HRS	5/12/97 5/13/97	CUMBI ELLEP
URD TRANSFORMER II	8 HRS	5 13 97	COMPLETED
SWITCHING LODIC ENERGITATION DE-EN.	8 HRS	5/13/97	
THETALLATION ?	em. 84RS	5/16/97	Gerbii ded
PRIMARY CABLE SPLICING TECHNIQUES	8 HRS	5/16/97	COMPLETED
-			,
-	·	ž.	

3216

NAME D. L. Shipled EMPLOYEE NUMBER 25- 997

CLASSIFICATION LINEMAN A.

p			
TRAINING SESSION	TIME	DATE TAKEN	REMARKS
GATERGENER	1 HR	1-20-87	600 / TAME 109 AV
5'-0" AULE	1 HA	3-24-88	PSC PARTINGAT
NUS 1.1	4 1412	- [1-(-88	
NUS Z-L	14th	11-1-88	
CAR Corre B	8 HR	11-23	71%
Cir	2hr	17/77	74%
SFA	8HR	P8-10-50	CPR-72 FA-100
BM-TT W		03-27-89	
BM-TIL Q	4 42	03-27-89	Completed
GSSØ2Ø	4HR	2-15-90	92%
G55022	4HR	2-15-90	COMPLETE
AEOBOI	Z4 HR	5-29/31 90	8896
GSSØQØ	1	2-8-91	80%
GSSØ25	442	2-8-91	COMPLETED
GETOOR	11/a	7-29-91	C.
GETOOZ	1/2	8-13-91	COMPLETED
XI0010	1/4	8-13-91	C
G55003	840	3-10-92	ROMPLETED
GEGN 00003	8		O'K WAX 3 8 885
-		- K	

NAME: DON Shipley EMPLOYEE NUMBER: 35-3216
CLASSIFICATION: LIHEMAN A.

CORP. LINEAGE CECCLON	COYN CE	DAME WATER	DEMARKS
TRAINING SESSION	TIME	DATE TAKEN	REMARKS
	 	<u> </u>	AEREII .
GETGGOIPRO	2 Hes	2/22/02	HEE AT DOLLAR
GETGGGTPRO	12 MRS	2/22/93	USE OF Propane Devices BSH073
GETGGOZHRD	4 HRS	2/22/93	
GUIGGOZARD	4 KK3	2/22/93	URD HARDWARE & MATERIALS
CETCCLASCA	/ 11	2/22/02	
GETGG \$3 SPL	6 Hes	$\frac{2}{2}$	SECONDARY CABLE Splicing
GETGGOATRM	8 Hes		
GET GG O4 1 KM	OLLES	2/23/13	INST & REPLACE OF TERMIN.
GETGGOSELD	4 HRS		URD Electrical Diagram
(40.00000000000000000000000000000000000		•	IAE2AA7
GETGG465WL	8 Hrs	2/26/93	Switch Logic Exerg Proced
		<i>f</i>	AEROIL
GETGG07TRP	8HRS	2/26/93	Advanced Trans. Princip.
		/ /] '
GETGG OF TEM	1 HR	2/26/93	Installation of Tem See
		1 1	OPPOSITE SEED
GEENGOZ CPR	4	3/17/93	L COMPLETED - I
i	•		OCCUPILESED
GEENGOL BIP	4	3/17/93	GOMPLETED
		•	OOMOI GTEO
GEGNGAPS	24	2/19/93	GOMPLETED
	3	•	COLUMN ESES
GEENGOISFA	*	3/22/94	GUMPLETED
0	1	, ,	COMPLETED
GESNGCUPKA	40	10/17-21/94	
0.110.110.1	,	• , • • •	CCMPLETID
GETNGEYGND	16	2/21-22/95	₩ ¥© ගනයට සමහ ගැනී විවැදිව
	I	The state of the s	
GEENGOISEA	9	10-14-96	PASSED
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Phase IT TRAINING

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EMPRP1

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52 15.7 34 .55 156 ; 157 ; LOUISVILLE GAS & ELECTRIC CO. EMPLOYEE COURSE LISTING

DATE 07/22/97 -TIME-11.26.54-

				CI ACC	El ABB	C1 ACC
EMP	NAME	COURSE	COURSE_TITLE :	DATE	STATUS	CLASS HOURS
			CTANDARD EXPET. A IR.			
	- I-L SHIPLE	T GEENGUISTH	STANDARD-FIRST-AID	76/10/14-		
	D L SHIPLE	ין טבו אחת אור איני איני איני איני איני איני איני אינ	NEDL CAR CONT	96/0//22	ն C	3.25
	D L SHIPLE	Y GEINGLAPUN	PROG.CAP.CONT. —MEDIA-TRAINING	96/04/02	L	1.50
	D L SHIPLE					2:00
	D L SHIPLE		SLIPS, TRIPS, AND FALLS	96/03/01		1.00
	D L SHIPLE		BUCKET TRUCK RESCUE	95/11/02		2.00
	D L SHIPLE		-PERSONAL-PROTECTIVE-EQUIPMEMT-			i -00
_	D L SHIPLE		SEXUAL HARASSMENT	95/10/23		.25
3216	D L SHIPLE	Y GEGNGVISIN	SAFETY VISION KICKOFF	95/10/18		1.50
3216	B-L SHIPLE	Y GEENTTRS05	-PCB-SPILLS	- 9 5/10/1 7-		
3216	D L SHIPLE	Y GETNTTCB	SEC TIED BREAKERS	95/10/04	C	.25 .
3216	D L SHIPLE	Y GEENGOISFA	STANDARD FIRST AID	95/09/13	C	8.00
3216	D L SHIPLE	Y GGEN600009-	-HAZ-COM-FLAMMABLE-LIQUIDS	- 95 /06/12		1.00
3216	D L SHIPLE	Y GEENGBEHAV	BEHAVIOR BASED SAFETY TRAINING	95/05/24	С	3.00
3216	D L SHIPLE	Y GOGNLVIDEO	CONTINUOUS IMPROVEMENT VIDEO	95/05/01	С	2.00
3216	D-L-SHIPLE		CODE OF DISTANCE CONDUCT	DE/04/21	-c	100
_	D L SHIPLE		SAFETY INCIDENT AT PIRTLE	95/04/20		1.00
	D L SHIPLE		HAZ COM LABELING	95/03/29		1,00
	D L SHIPLE		ALCOHOL POLICY TRAINING			1.00
	D L SHIPLE		OCCUPATIONAL EXPOSURE TO EMF			.50
	D L SHIPLE		SAFETY EXCEL. TRAINING	95/02/22		16.00
	D L SHIPLE	TO CETATOVANO	OXYGEN MONITORING	95/02/15	. C	50
	D L SHIPLE		1910.269 OVERVIEW	PE (02/27		2.00
	D L SHIPLE		RUBBER GLOVE TESTING	73/02/03	C	2.00
				73/02/01		.25
	D L SHIPLE		-EQUIPOTENTIAL GROUNDING METHOD			
	D L SHIPLE			94/11/04		1.00
	D L SHIPLE		LEADERSHIP SKILLS	94/10/21		40.00
	D L SHIPLE		-HAZ-COM-HALOGENATED-SOLVENTS-			1-00
	D L SHIPLE		SAFETY AWARENESS	94/08/03	-	2.00
	D L SHIPLE		FAMILY AND MEDICAL LEAVE ACT			1.00
	D-L-SHIPLE		- HAZ-COM-FLAMMABLE L IQUIDS			1 .00
3216	D L SHIPLE	Y GEENGO2HAZ	HAZ-COM, MSDS SHEETS	94/05/02	C	1.00
3216	D L SHIPLE	Y GEENGO1HAZ	HAZ-COM, WHAT'S IT ALL ABOUT	94/04/20	C	1.00
3216	D L SHIPLE	Y GEENGOISFA-	-STANDARD-FIRST-AID	94/03/22-	-C	8.00
3216	D L SHIPLE	Y GOGNGMBLK	REGULATORY AFFAIRS INFORMATION	94/02/03	C	1.00
3216	D L SHIPLE	Y GEENT94001	COLD WEATHER SAFETY	94/01/07	C	.50
3216	D L SHIPLE	YGETNT94002-	-FAULTED-CIRCUIT-INDICATORS	94/01/07-	-G	
3216	D L SHIPLE		ESC CLASS OF ACCOUNTS TRAINING			1.00
3216	D L SHIPLE	Y GEENGBLOO1	BLOODBORNE PATHOGENS UPDATE	93/12/14	С	1.00
	D L SHIPLE	Y GDENGHM181	BLOODBORNE PATHOGENS UPDATE -DOT-HM181-SHIPPING-PAPERS TRANSFORMER FIELD TICKETS	-93/12/13-	-C	2,-00
	D L SHIPLE	Y GEGNGTRS01	TRANSFORMER FIELD TICKETS	93/11/03	С	.50
	D L SHIPLE		MINI-GIANT TRAINING	93/10/20		2.00
	B-L-SHIPLE		-AUTOMATED-METER-READING			1.00
	D L SHIPLE	V REFNEASCED	ADULT CPR RECERTIFICATION	93/03/17		4.00
	D L SHIPLE		BACK INJURY PREVENTION	93/03/17		4.00
2210	n F Butter	GEENGOABIA	DUCY THROUL LUCACINITON	12102111	U	4.00

PAGE

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DATE 07/22/97 LOUISVILLE GAS & ELECTRIC CO. EMPRP1 ----TIME-11:26.54---EMPLOYEE-COURSE-LISTING-DATE STATUS HOURS EMP NAME COURSE -----GDGNGBKHST--BLACK-HISTORY-PRESENTATION------93/02/26-C---- 1.-00 3216 D-L-SHIPLEY GETGGPHAS2 PHASE 2 TRAINING 93/02/26 C .01 3216 D L SHIPLEY GETGGO6SWL SWITCH. LOGIC & ENERG/DE-ENERG 93/02/26 C 3216 D L SHIPLEY 3216 D L SHIPLEY ----- B-00 -GETGGOSTEM INSTALLATION OF TEMPORARY SERV 93/02/26 C 3216 D L SHIPLEY GETGGOSELD URD ELECTRICAL DIAGRAMS 93/02/24 C 4.00 3216 B L SHIPLEY -----GETGGO4TRM--INSTALL.-&-REPLACEMENT-OF-TERM--93/02/23--C----8.-00---3216 D-L-SHIPLEY GETGGO1PRO USE OF PROPANE & PROP DEVICES 93/02/22 C 2.00
GETGGO2HRD URD HARDWARE & MATERIALS 93/02/22 C 4.00 3216 D L SHIPLEY 3216 D L SHIPLEY GETGGOJSPL SECONDARY CABLE SPLICING 93/02/22 C--3216 D L SHIPLEY------- 6.00 -GEGNGAPS ANALYTICAL PROBLEM SOLVING 93/02/19 C 24.00
GEGNTCACCT ESC CLASS OF ACCOUNTS TRAINING 93/01/04 C 1.50 3216 D L SHIPLEY 3216 D L SHIPLEY ----2+00--3216 D L SHIPLEY GEENHHVOLT HIGH VOLTAGE TRAINING 92/10/10 C 8.00 3216 D L SHIPLEY 🕒 a GEENGHIVLT HIGH VOLTAGE DEMONSTRATION 92/07/07 C 3216 D L SHIPLEY 1.50 2. -GEGNDOOOO3-FIELD-AMBASADDR-TRAINING----92/05/20-C-----8.00 -3216-D-L-SHIPLEY-22 GEGNTTHEFT THEFT PREVENTION 92/04/23 C 3216 D L SHIPLEY 3 az 3216 D L SHIPLEY GEENGOISFA STANDARD FIRST AID 92/03/10 C 8.00 - GDGNGOOO2 - STRESS MANAGEMENT - -- 92/02/13 - E------8:-00-3216 D L SHIPLEY GDUNGCD002 CULTURAL DIVERSITY PHASE I 92/02/06 C GXGNL00042 CULTURAL DIVERSITY 92/02/06 C 3.00 3216 D L SHIPLEY **3** :: 4.00 3216 D L SHIPLEY ---- 91/11/05--C--GETNGO1 FIRE POWER 3216 D L SHIPLEY 28 GOENG40232 DEFENSIVE DRIVING 91/08/27 C 8.00 3216 D L SHIPLEY **3** .e. GET003 RAILROAD CROSSING SAFETY 91/08/13 C 1.50 3216 D L SHIPLEY 30. -CAREER-PLANNING-&-ADVANCEMENT -- 91/08/13-- G--1--25-3216 D L SHIPLEY X10010 - 5. STANDARDS SEMINAR STANDARDS SEMINAR GET002 91/07/31 C 1.50 3216 D L SHIPLEY **3** :: 1.50 91/07/29 C 3216 D L SHIPLEY GET002 33 -GSS020--------4.-00---3216 D L SHIPLEY 34. BACK INJURY PREVENTION 91/02/08 C INTERMEDIATE ELEC PRINCIPLES 90/05/29 C 4.00 3216 D L SHIPLEY 655025 **ે** હ 24.00 AEOB01 3216 D L SHIPLEY -ADULT-CPR-RECERTIFICATION-90/02/15-C--4.00 3216 D-L SHIPLEY 655020 GSS022 HAZARD COMMUNICATION TRAINING 90/02/15 C 3216 D L SHIPLEY AEOB21 BASIC METERS 89/03/27 C 8.00 3216 D L SHIPLEY 3216 D L SHIPLEY ---BTP002------1.00-4. GSS018 STNDRD FIRST AID/CPR 89/03/07 C .00 3216 D L SHIPLEY 2-3 88/11/23 C 8.00 3216 D L SHIPLEY GSS002 CPR TRAINING 142 ORIENTATION TO T&D-SYSTEMS & EQ-BB/11/01-C ---4.-50--3216 D L SHIPLEY --AEDEO1 *:*3 SAFETY IN T&D MAINTENANCE FIVE FOOT RULE BTS001 SAFETY IN T&D MAINTENANCE 88/11/01 C 4.00 3216 D L SHIPLEY BTP001 88/03/24 C 1.00 3216 D L SHIPLEY 3216 D L SHIPLEY --- GDA001---- NEW-EMPLOYEE-ORIENTATION---- B. 00-TOTAL EMP 3216 -TATAI--334.76

SIGN-IN SHEET (Please Print)

Date 5/13/97 Instructor's Name	Well Haber
Subject Presented Switching	Logic
Location ESC	/ Training Hours
Training MeetingTailgate Meeting	Safety Meeting
Supervisor's Name	

Please check one Last Name/First Name Signature Dept/ BU. **IC** MS NE (please print in ink or Empl.# type) 35-3144 35-3267 35-2475 35-3216 34-2419 35-1845 AmBRON 34-1770 35-2423 35-2231 2 r2798 35.2673 35-2640

BU = Bargaining Unit

NE = Non-exempt

MS = Manager/Supervisor IC = Individual Contributor

se Truming Session # 1 /19

ESD TRAINING COURSE RECORD SHEET

NAME:	<u>G.</u>	RAZOR	EMPLOYEE NUMBER:	3220
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CLASSIFICATION: LINE TECHNITIAN A

TRAINING SESSION	TIME	DATE TAKEN	REMARKS
BASIC ELECTRICITY		DATE TAKEN	INC. MARKET
REVIEW	4 HRS	3-3-97	COMPLETED
HIGH VOLTAGE A.C. POWER	4.5 HRS	3-3-97	COMPLETEN
ELECTROMAGNETIC Induction Review	4 HRS	3-26-97	COMPLETED
TRANSFORMERS ! TRANSF. BANKS	8 HRS	3-25-97	COMPLETED
URD TRANSFORMER II	8 HRS	3-24-97	COMPLETED
SWITCHING LOLIC ENERGITATION DE-EN.	8 HRS	3-24-97	COMPLETED
THSTALLATION !	em. 8HRS	3-27-97	שוויישון והקדבים
PRIMARY CABLE SPLICING TECHNIQUES	8 HRS	3-27-97	COMPLETED
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T & D TRAINING COURSE RECORD SHEET

NAME: G. RAZ	OR EMP	LOYEE NUMBER: 35 - 32 10
CLASSIFICATION: Lin	IEMAN A	

		,	
TRAINING SESSION	TIME	DATE TAKEN	REMARKS
	1	1	AEREII
GETGGOIPRO	2 Hes	5-10-93	USE OF PropAME DEVICES
			B5H073
GETGGOZHRD	4 HRS	5-10.93	URD HARdware & Materials
			REZCIL
GETGGG3SPL	6 Hes	5-10-93	SECONDARY CABLE Splicing
			AERBOT
GETGGOLTRM	8 Hes	5-11-93	I not & REplace of TERMIN.
			AER302
GETGGOSELD	4 HRS		URD Electrical Diagram
		5-11 93	AERAO7
GETGG \$65WL	8HRS	5-13-93	Switch Logic Exery Proced
		5-13-93	AERGII
GETGG07TRP	8HRS	5-14-93	Advanced Trans. Princip.
	,		
GETGGDTTEM	142	5-14-93	Installation of TEM SER
	,		60MB/EETS
GEENGOZCPR	4	4/20/94	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
		, ,	00=355=55
GEUNGFAMB2	4	4/20/94	<u>eogeneral</u>
	,	191	
GESNGCUPKX	40	1/12-16/94	TOPPRETED
FAll Pectection	2	6-12-97	PASSED
First Aid CPR	8	10-9-96	PASSED
		•	
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PHASE IT TENINING

T&D TRAINING COURSE RECORD SHEET

3220

NAME G. W. PLAZOR

EMPLOYEE NUMBER 35-659

CLASSIFICATION LINEMAN A

		_	
TRAINING SESSION	TIME	DATE TAKEN	REMARKS
GATEKERYER	1 HA	1-20-89	
5'-0" 10cla	Illa.	7-95-88	PTC
432 - CONIII	1.40	5- 97	
Figet Rid	8 int.	1(132	231.
NUS 1.1	4 HR	12-7-88	
NO2 2.1	4 42	12-7-88	
BM-TT W	4	3-9-89	871.
BM-TIT Q	4	3-9-89	Completed
G55003	8HR	3-12-90	GOMPRESSED
GSSØZØ	4HR	2-25-91	COMPLETED
Gssøaa	4HR	2-25-91	
GEENG ØZCPR	4	3-30-92	
SEENGO4BIP	र्ग	3-30-92	RAMPLETED I
SEGNO DO DO O 3	g	6-3-92	
GEENGUISFA	8	4-6-93	
FALL PROTRETION	Ź	6-12-9-1	Passed
		.:	

SIGN-IN SHEET (Please Print)

Date 3-24-9	Instructor's Name/	Wille				
Subject Presented	witching I	odgic				
Location ESC		<i></i> Trai	ning H	ours_		
Training Meeting	Tailgate Meeting	Safety	Meetin	g		
Supervisor's Name			······································			
			1	Please c	heck one	· •
Last Name/First Name (please print in ink or type)	Signature	Dept/ Empl.#	BU	IC	MS	NE
Mabonstein Kennett	1- Rithert	3010				
RAZOR ERRY	San Wron	3220	V			
RL HACC	23/2/16	2350.	V			
D.T Viusen	D. T. Vincon	2597				
D.L. EVANS	O. L. Grane	35-3175				
R.L. Crawford	Richard Crawfeel	35-2814	V			
F.N. ARELL	1	351764				
MEXICLEATHER MICHAEL		35 3306	V	_		
Rhades Keris	L. Ris	34:348	W			·
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BU = Bargaining Unit NE = Non-exempt

MS = Manager/Supervisor IC = Individual Contributor

EMPRP1

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OUISVILLE GAS % ELECTRIC CO. DATE 07/22/97
--EMPLOYEE COURSE-LISTING------TIME-11-24.43--LOUISVILLE GAS % ELECTRIC CO.

	EMP	NAME	COURSE	COURSE_TITLE	DATE	-CLASS	CLASS HOURS
		137 H Ta					
		G W RAZOR	REENBOISEA	- STANDARD FIRST AID	=A440709-	[]	€.00
		S W RAZOR		TAKING SHORTCUTS	76/08/27		.50
		6 W RAZOR		SAFETY VISION	76/08/29		.50
				SLIPS, -TRIPS, AND FALLS			1.00
	3220	G-W-RAZOR		PCB SPILLS	95/23/95		.50
		5 W RAZOR		BUCKET TRUCK RESCUE	95/11/02		2,00
_				PERSONAL-PROTECTIVE EQUIPMENT			1.00
		G W RAZOR		SEXUAL HARASSMENT	95/10/23		.25
		G W RAZOR		SAFETY VISION KICKOFF	95/10/18		1,50
		G W RAZOR		STANDARD FIRST AID	95/10/04		. 25
					95/09/12		3.00
		G W RAZOR		BEHAVIOR BASED SAFETY TRAINING			3.00
				- HAZ-COM-FLAMMABLE-LIQUIDS	_		- 1.00
		6 W RAZOR		FCB SPILLS	95/05/23		.50
		G W RAZOR		CONTINUOUS IMPROVEMENT VIDEO			2,00
				SAFETY EXCEL. TRAINING -			15.00
		G W RAZOR		CODE OF BUSINESS CONDUCT	95/04/21		1.00
		5 W RAZOR	GEGNPIRTL	•			1.00
				- HAZ- COM-LABELING			1.00
	3220	6 W RAZOR		ALCOHOL POLICY TRAINING			1.00
	3220	G W RAZOR	GETNTEXEMF	OCCUPATIONAL EXPOSURE TO EMF	95/03/08	C ·	.50
	3220-	-G-W-RAZOR	PEENGOVERV-	1910:2690VERVIEW			2.00
	3220	6 W RAZOR	BETNTGLOVE	RUBBER GLOVE TESTING	95/02/01	С	. 25
	3220	G W RAZOR	GEENGEPGND	EQUIPOTENTIAL GROUNDING METHOD	95/01/11	С	2,00
-	3220-	-G-W-RAZOR	GESNGCUPKA	LEADERSHIP-SKILLS	-74/12/16-	-C	-40,-00
	3220	G W RAZOR	BXONHCONDR	CONDOR CERTIFICATION	94/11/16	С	9.00
	3220	G W RAZOR	GEENGGASES	HAZ - COM GASES	94/11/09	C	1.00
-	3220	-G-W-RAZOR	- GEENGUPDTE-	BLOODBORNE-PATHOGENS UPDATE	-94/11/09-	C	1.00
	3220	.G W RAZOR	GEENGSOLVE	HAZ-COM HALOGENATED SOLVENTS	94/10/05	С	1.00
	3220	G W RAZOR	GETNT00001	SAFETY AWARENESS	94/08/03	С	2.00
-	322 0	-6-W-RAZOR	GEUNTFAMLA-	FAMILY-AND-MEDICAL-LEAVE-ACT	94/06/20-	-C	- 1,00
	3220	G W RÁZOR	GEENGO1HAZ	HAZ-COM, WHAT'S IT ALL ABOUT	94/04/20	С	1,00
	3220	G W RAZOR	GEENGO2CPR	ADULT CPR RECERTIFICATION	94/04/20	С	4,00
-	5220	-G-W-RAZOR	- 6EUNGFAMB2 -	FIELD-AMBASSADOR REFRESHER	94/04/20	C	- 4.00
	3220	G W RAZOR	GOENGMBLK	REGULATORY AFFAIRS INFORMATION	94/02/03	С	1.00
	3220	5 ₩ RAZOR	GEENT94001		94/01/07		.50
	3220-	-G-W-RAZOR	GETNT94002	-FAULTED-CIRCUIT-INDICATORS	-94/01/07		50
	3220	6 W RAZOR		ESC CLASS OF ACCOUNTS TRAINING			1.00
		G W RAZOR		BLOODBORNE PATHOGENS UPDATE			1.00
-				- DOT-HM181-SHIPPING PAPERS-			2,00
		G W RAZOR		TRANSFORMER FIELD TICKETS	93/11/03	r.	.50
		S W RAZOR		MINI-GIANT TRAINING	73/11/05		2.00
				-AUTOMATED-METER READING			1.00
		6 W RAZOR			- 73/07/22- - 93/05/14		.01
		G W RAZOR		ADVANCED TRANS. PRINCIPLES	73/05/14 73/05/14		
	0220	O M VHTON	GETGG07TRP	HUVHNUED INHNO. FRINCIFEES	10/00/14	L ,	€.00

PAGE 2

EMPRP1

G

LOUISVILLE GAS & ELECTRIC CO. DATE 07/22/97 TIME 11.24.43

	EMP	NAME	COURSE	COURSE_TITLE	CLASS DATE	CLASS STATUS	CLASS HOURS
***				INSTALLATION OF TEMPORARY SERV		•	1.00
		G W RAZOR	GETGG06SWL			-	8.00
		6 W RAZOR	GETGG05ELD	· · · · - · · · · · · · · · · · ·	93/05/12	•	4.00
			- GETGG04TRM	INSTALL. & REPLACEMENT OF TERM	93/05/11	C	B.00
		G W RAZOR	GETGG01PRO	USE OF PROPANE & PROP DEVICES	93/05/10	Ε	2.00
	3220	G W RAZOR	GETGG02HRD	URD HARDWARE & MATERIALS	93/05/10	Ε	4.00
	-3220-	-G-W-RAZOR ··	GETGG03SPL	SECONDARY CABLE SPLICING	93/05/10	C	6.00
	3220	G W RAZOR	GEENGO1SFA		93/04/06		8.00
	3220	G W RAZOR	GEGNGAPS	ANALYTICAL PROBLEM SOLVING	93/02/25	С	24.00
	-3220	G W RAZOR · · · · · · ·	GEGNTCACCT	ESC CLASS OF ACCOUNTS TRAINING	93/01/04	С	1.50
	3220	G W RAZOR	GEENGBLOOD	BLOODBORNE PATHOGENS PLAN	92/11/17	С	2.00
٠.	3220	G W RAZOR			92/10/10	C	8.00
			· GEENGHIVLT…	HIGH-VOLTAGE DEMONSTRATION	72/07/07	С	1.50
	3220	G W RAZOR	GEGND00003	FIELD AMBASADOR TRAINING	72/05/03	С	8.00
	3220	6 W RAZOR	GEENGO4BIP	BACK INJURY PREVENTION	92/03/30	С	4.00
	-3220 -	G-W-RAZOR-	GDUNGCD002	CULTURAL DIVERSITY PHASE I	92/02/06	С	3.00
	3220 i	G W RAZOR	GXGNL00042	CULTURAL DIVERSITY	72/02/06	С	4.00
	3220	G W RAZOR	GETNG01	FIRE POWER	91/11/05	С	2.00
	-3220	-G-W-RAZOR	-SET003	RAILROAD CROSSING SAFETY	91/08/15	. C .	1.50
	3220	G W RAZOR	XI0010	CAREER PLANNING & ADVANCEMENT	91/08/15	С	1.25
	3220	G W RAZOR	GDENG40232	DEFENSIVE DRIVING	91/03/27	С	8.00
	-3220	-G-W-RAZOR	- ESS020	ADULT CPR RECERTIFICATION	91/02/25	-C	4.00
	3220	G W RAZOR	GSS022	HAZARD COMMUNICATION TRAINING	91/02/25	С	4.00
	3220	G W RAZOR	655003	STANDARD FIRST AID	90/03/12	C	9.00
	-3220	-G-W-RAZOR	-AE0821	BASIC-METERS ····	89/03/09	C	8.00
	3220	G W RAZOR	AEDE01 BTS001	DRIENTATION TO TWO SYSTEMS &EQ			4.50
	3220	G W RAZOR	BTS001	SAFETY IN T&D MAINTENANCE	88/12/07		4.00
	3220-	-G-W-RAZOR	GSS001	FIRST-AID/MULTI-MEDIA	83/11/17	C	8.00
	3220	G W RAZOR	BTF001	FIVE FOOT RULE	83/03/25	С	1.00
	TOTAL	-EMP-3220					
					•		287.51
	TOTAL			· · · · · · · · · · · · · · · · · · ·	-		
	TOTAL						287.51

CRIMPING TOOLS & DIES RECOMMENDED FOR ELASTIMOLD ELBOW COMPRESSION CONNECTORS

			OR AL	Т&В	CSA	нс	MAC	ALCOA	BUR	NDY	KEA	RNEY	BLAC	KBURN	ANDERSON
NO.	CRIMP BARREL		CTOR SIZE OR KCM	HYDR		UT5	HYDR	12A	MD6,MD7	Y35 Y45*	0	H1,H2	OD58	HYDR	VC-6
02500	O.D.	STR. COMPR.	COMPT. SOLID	DIE NO.	DIE NO.	DIE NO.	DIE NO.	DIE NO.	DIE NO.	DIE NO.	DIE NO.	DIE NO.	DIE NO.	DIE NO.	
180		#6	#5					•					1	!	
190		#5	#4												
200	· 4-	#4	#3	,					W243(3)	U243(2)	5/8	9/16			
210	.625"	#3	#2	50	22(2) xx	TU	52	B24EA	WBG(3)	UBG(3)	Nose	or	5/8	B24EA	** NO DIE REQ'D.
220	(15,9mm)	#2	#1						BG Nose(6)	U27RT(3)	620 620	572			ilea b
230		#1	1/0	!											
240		1/0	2/0												
250		2/0	3/0												
260	.781"	3/0	4/0					•		U29RT(3)					VC-6 NOT
270	(20,0mm)	4/0	250						W247(4)	U27ART(3)					RECOMMENDED

^{*} Requires Adapter No. 6515.

() Number of crimps.

Wire brush bared aluminum conductor before inserting into connector. Rotate each successive crimp 90° or 180°. $$\chi $$ Overlap crimp.

^{**} To be used on aluminum conductor ONLY.

Investigation Report Page 2

Mr. Lovelace received burns to both hands. He was released from the hospital Thursday, July 24, 1997.

At 20:02 hours, I notified Mr. John Land's answering machine and then I called Ms. Martha Morton, both with the Public Service Commission. Ms. Morton was informed the transformer and the elbow on the conductor would have to be changed out to get the customers back on line. She said to change the equipment out and John Land would meet with us Monday morning, July 21,1997.

Photographs were taken Sunday night and Monday morning at the accident site.

On Monday, July 21,1997, at approximately 09:00 hours, Mr. John Land arrived to investigate the accident.

Photographs and additional materials to follow under separate cover.



Electric Transmission and Distribution Department T & DTRAINING



SPECIFICATEX

Skriching Logic and Energization/De-energization
Procedures IV

SLEDPAV (F&DAR)

1. Introduction

1.4 <u>Isolation and Energization of a Section of Primary Cable and</u> Transformer

When isolating a section of primary cable and transformer from a URD circuit a schematic diagram must be used and the primary cable and transformer must be totally removed from the circuit.

To isolate a section of primary cable from a URD circuit, both ends of the primary cable to be isolated must be disconnected or removed from the terminals where they are connected. After the primary cable ends have been disconnected and removed from the terminals, the primary cable must be tested for dead and should be grounded before starting work.

To isolate a transformer from a URD circuit, the primary cables at the transformers on either side of the transformer to be isolated must be disconnected or removed from the terminals where they are connected. After the primary cables have been disconnected or removed from the terminals, test the isolated transformer and the primary cables to make sure that they are de-energized. Testing all primary cables and transformers to be worked on to make sure they are de-energized is extremely important in URD systems. Since URD cables run underground, out of sight, it is not possible to be absolutely sure where they feed from. Although diagrams and tags are important aids in identifying cables and transformers, they may contain incorrect information. The only way to make sure that the right cables have been disconnected is to test them to make sure no voltage is present.

When a section of primary cable and/or a transformer needs to be energized, a worker should make sure that the primary cable and transformer have been terminated.

5-FOOT RULE

EMPLOYEES SHALL NOT APPROACH, OR TAKE ANY CONDUCTIVE OBJECT WITHOUT APPROVED INSULATION, CLOSER TO UNGUARDED, EXPOSED ENERGIZED PARTS THAN SHOWN IN THE FOLLOWING TABLE: UNLESS, THE EMPLOYEES ARE INSULATED FROM THE ENERGIZED PARTS, OR THE ENERGIZED PATS ARE INSULATED FROM THE EMPLOYEES. APPROVED, RUBBER GLOVES AND SLEEVES SHALL BE CONSIDERED ADEQUATE INSULATION OF THE EMPLOYEE FROM THE ENERGIZED PART.

600V THROUGH 13.8 KV

Underground cable has adequate insulation: You do not have to wear protective equipment, until you get within five feet of termination. At that point, before coming within five feet of termination, you put your gloves and sleeves on.

UNDERGROUND TRANSFORMERS

DEAD-FRONT TRANSFORMERS, PADMOUNT.

BEFORE OPENING LID OR DOOR, YOU MUST HAVE YOUR GLOVES AND SLEEVES ON. AFTER INSPECTING, AND EVERYTHING IS OK YOU CAN REMOVE GLOVES AND SLEEVES. USE PROTECTIVE EQUIPMENT NEEDED TO DO YOUR JOB.

LIVE-FRONT TRANSFORMERS

BEFORE OPENING LID OR DOOR, YOU MUST HAVE YOUR GLOVES AND SLEEVES ON. IF VOLTAGE OVER 600V, GLOVES AND SLEEVES ARE REQUIRED. IF YOU ADEQUATELY COVER EQUIPMENT OVER 600V, GLOVES AND SLEEVES CAN BE REMOVED. USE PROTECTIVE EQUIPMENT NEEDED TO DO YOUR JOB.

THE RULE FOR USING GLOVES AND SLEEVES TO OPEN PADMOUNT TRANSFORMERS AND SUB-GRADE TRANSFORMERS IS ABOVE AND BEYOND THE FIVE FOOT RULE.

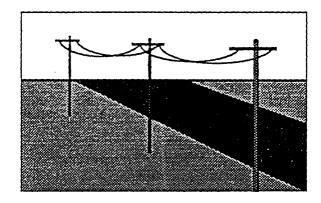
OVERHEAD LINES AND EQUIPMENT

600v through 13.8 kv - 5-foot rule.

BEFORE COMING WITHIN FIVE FEET OF PROMARY, YOU PUT YOUR GLOVES AND SLEEVES ON. IF YOU HAVE EVERYTHING ENERGIZED COVERED, YOU CAN REMOVE GLOVES AND SLEEVES. USE PROTECTIVE EQUIPMENT NEEDED TO DO YOUR JOB. WORK-RULE 11 COVERS THE FIVE-FOOT RULE VIOLATION.

ESD JOINT TASK

TEAM



"Working together to deliver the goods."

SECTION F





TEMPORARY
PROTECTIVE
GROUNDING
PROCEDURES

LOUISVILLE GAS AND ELECTRIC COMPANY ELECTRIC SERVICE DELIVERY DEPARTMENT

F. UNDERGROUND TEMPORARY PROTECTIVE GROUNDING PROCEDURES

- It shall always be assumed that electrical equipment and conductors are energized until proven to be de-energized. Proper administrative clearance shall be obtained and electrical tests shall be made before any work (including the installation of temporary protective grounds) is started. As an additional safeguard, the isolating switches, or other visible line breaks, shall be locked or blocked open and carded before work is started.
- 2 Hazards for Underground Workers:

Underground systems have inherently greater hazards than overhead systems. Due to the limited ability to visually verify circuit routes, there is a greater reliance on circuit maps. In addition, cable sheaths often develop induced potentials due to close capacitive coupling with energized phase conductors. In underground vaults, manholes and in padmounted equipment, a significant flash hazard exists in the event of a fault at the work location. The use of arc supression blankets shall be used. Also, since the worker is in direct contact with the earth, step and touch potential hazards nearly always exist at the work location under fault conditions.

- Tailgate: BEFORE protective grounds are applied or the commencement of any work. The person or persons in charge shall advise ALL employees and the general public of all hazards associated with the job. Information conveyed as part of the job briefing shall include but not limited to the following:
 - a) quantity and location of protective grounds;
 - b) electric clearances provided,
 - c) proximity of energized lines or equipment,
 - d) and special considerations regarding the safe completion of the work,
 - e) hazards associated with the job,
 - f) work procedures involved,
 - g) special precautions,
 - h) energy source controls,
 - i) and personal protective equipment requirements.

Note: The above practice shall apply to those employees working alone.

4 Identification

- a) Identification of all cables is accomplished by checking the cable tag and the duct position as shown on conduit and cable maps.
- b) If the cable tag does not agree with the indicated duct position, trace the cable until identification is positive.
- c) Spiking method is used when working the following: All single phase circuits, loop feed systems, when transformers are added to existing systems, two or more cables are in the same ditch.
- d) Cables operating at 300 volts or less are to be tested with a voltmeter or other approved test device.

Note: When three-phase underground feeders out of substations are required to be worked on due to routine work or cable failure the supervisor in charge shall contact the load dispatcher in order to get clearance and grounds shall be installed on the circuit at the station by the station operators. When notified by the load dispatcher that grounds have been installed the crew shall be notified by the supervisor to proceed with work starting by stripping cable down to conductor and checking with an approved voltage detector. When testring any multi-cunductor lead primary cable, always do a test on at least two conductors, eliminating the possibility of testing a neutral on a (4) conductor cable. This process is to be done with the use of proper personal protective equipment including gloves and sleeves.

5 Downtown Network

Before cable is cut there must be a ground put on the closest transformer behind where cable is being worked giving the person working on the cable a ground on both sides of the cable once the cable has been cut.

- When working on a circuit out of Class A or B substation, if work to be done is between switch gear housing and lateral pole, a set of grounds should be installed at the lateral pole. Any three-phase cable taken out of service in order to be worked shall have grounds installed on cable at open locations.
- Any U.R.D. cable taken out of service in order to be worked on will have grounds installed at nearest open location on both sides of area to be worked on.

Isolating Underground Primary Cable

When isolating a section of Underground (URD) primary cable, the following steps should be followed:

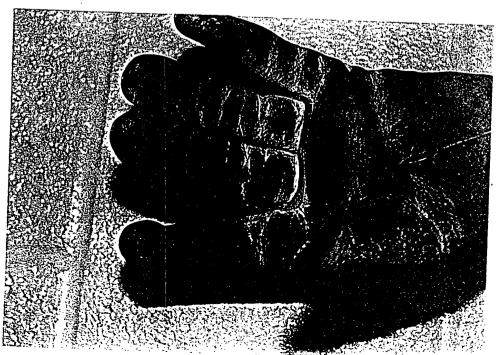
- 1. Get the proper administrative clearances on outages , i.e., Service Center Supervisor, Electric Trouble Department Supervisor, or Service Center Manager.
- 2. Review an URD circuit schematic diagram and/or job print of the work location. Compare the URD circuit schematic diagram and/or job print with the actual job site. Ask yourself the questions:
 - Do the feeder phase(s) on the URD circuit schematic diagram and/or job print correspond with the actual findings at the job site? Is what you expected to find actually what you have?
 - If a transformer is indicated on the URD circuit schematic diagram and/or job print as the open, is it really the open? Check and see for yourself!
 - Look around! Are there any other subdivisions, houses, or businesses that may have other URD circuits in the same vicinity as the circuit you are preparing to work on? NEVER ASSUME! Don't be tricked?
- 3. Tailgate all of your findings with the crew(s) performing the work. Your tailgate should include but not limited to the following:
 - a) quantity and location of protective grounds
 - b) electric clearances provided
 - c) proximity of energized lines, cables, and equipment.
 - d) any special considerations regarding the safe completion of the work
 - e) hazards associated with the job
 - f) work procedures involved
 - g) any special precautions
 - h) energy source controls
 - i) personal protective equipment requirements
- 4. Switch a section of cable out of service using the following rules:

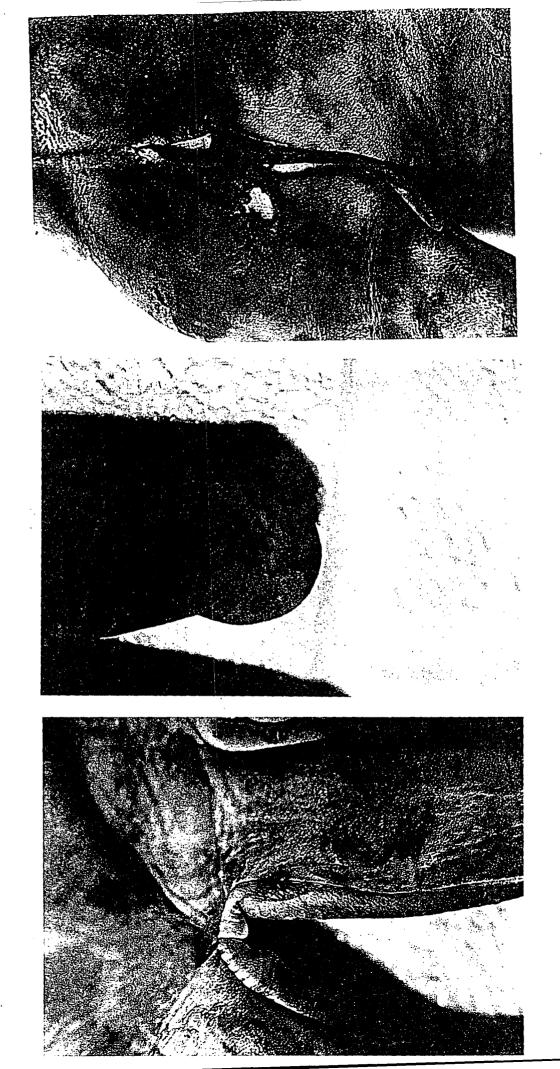
- a) Always wear your Personal Protective Equipment! (i.e., Hard Hat, Safety Glasses, Dielectric Boots, Insulating Rubber Gloves and/or insulating rubber sleeves(if applicable).
- b) Always check all testing equipment before each use to be sure they are operating properly.
- c) Identify the cable. Check for cable tags(if applicable)on the transformer elbows. They indicate the cable feed direction.
- d) Identify the cable. If at all possible test the section of cable, to be de-energized to see if in fact it is energized. That way when you de-energize the cable you can test to see if in fact the condition of the cable did change appropriately. This will give you a good indication that the equipment you are working on is the equipment you want to work on! Don't be fooled!
- e) Always Open Before You Close! Never close the open transformer before you open at another location. You could buck phases and cause injury to yourself, your co-worker, and equipment.
- f) A cable can be tested for energization or de-energization by testing the transformer being fed before and after the elbows are pulled and stood-off on adjacent transformers. (these elbows should always be mounted on grounded stand-off bushings to be considered dead.) If It Is Not Grounded It Is Not Dead! The secondary can be checked with a "voltmeter". The primaries can be checked by standing off the elbows (load break) on stand-off feed through bushings and testing for voltage with an "A. B. Chance Voltage Tester".
- g) A cable can be tested for energization or de-energization by testing the cable before and after de-energization using a "Cable Tester". An example of this is when we splice a cable or terminate a new transformer. The cable may already be exposed by contractors or we may expose it by digging a splice pit. How can we be sure this is the right cable? The best indication is by testing for energization or de-energization before and after de-energization with a "Cable Tester". This way we can monitor the electrical conditions of the cable. If conditions change as we expect them to, we can be better assured the cable is de-energized and we are working on the right cable. After all testing and conditions have proved out that we very likely have the correct cable,

- there is one more last imperative precautionary step to take. SPIKE THE CABLE WITH A CABLE SPIKER! DON'T ASSUME!
- h) The spiking method is used when working on all single phase circuits, loop feed systems, when transformers are added to existing systems, and when two or more cables are in the same ditch.



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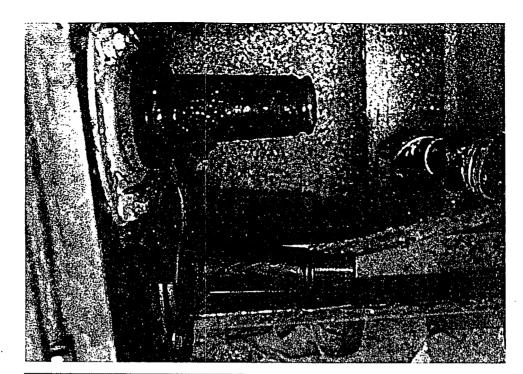


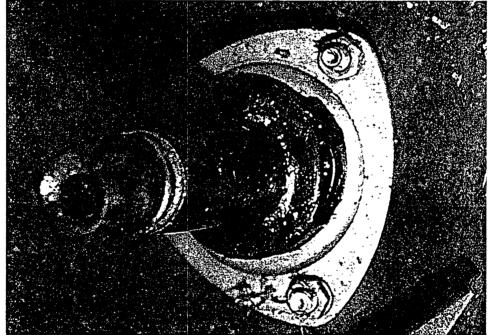


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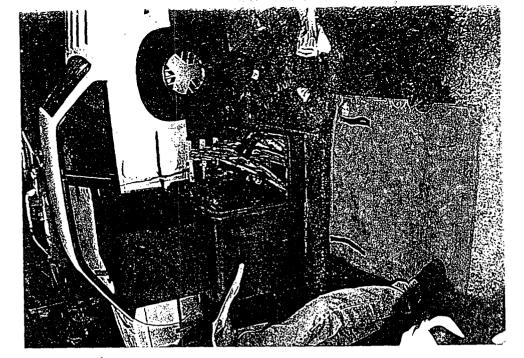
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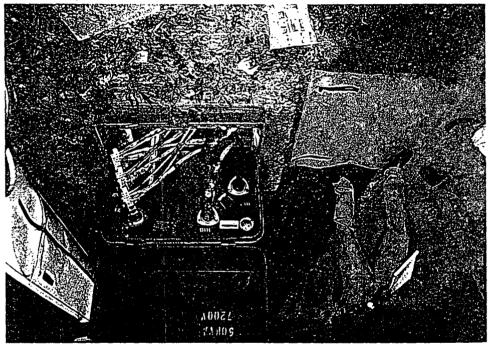
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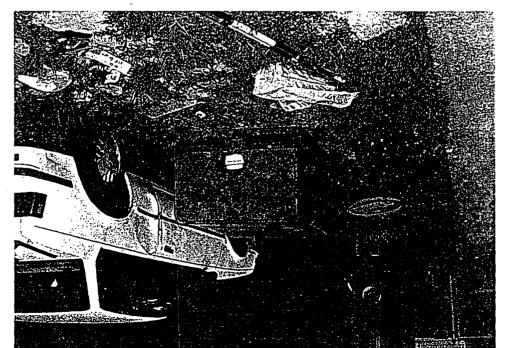


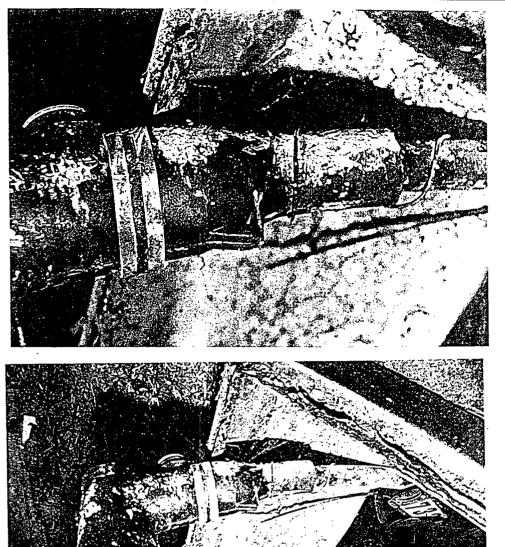


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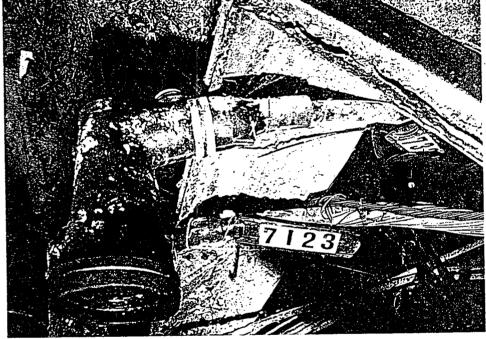
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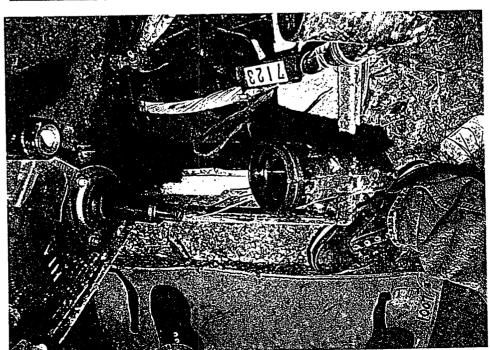
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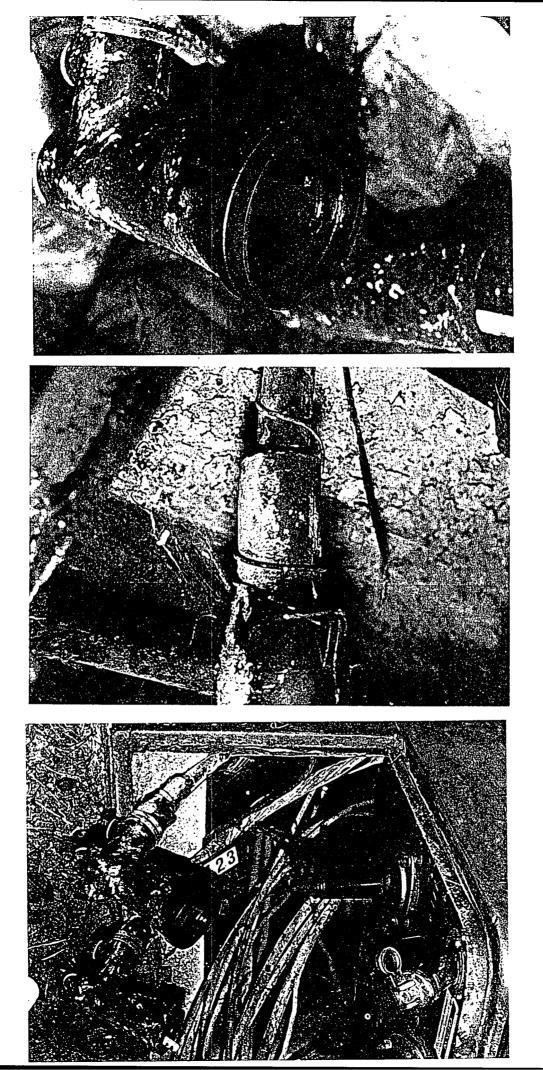
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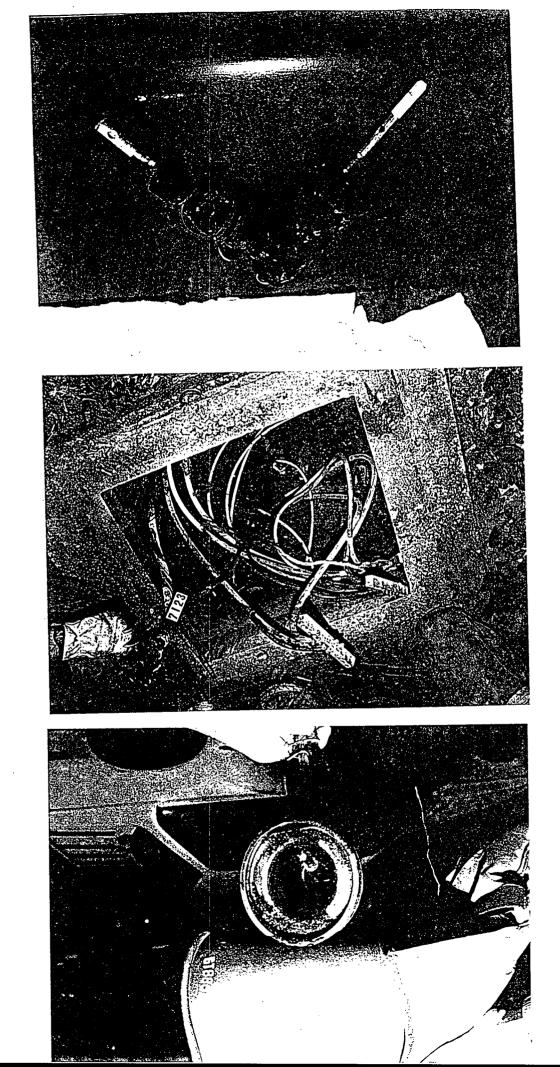
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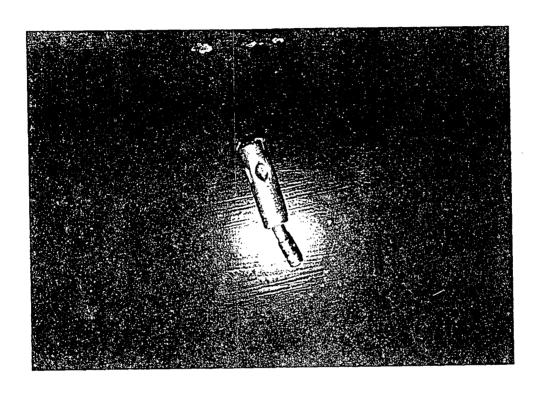
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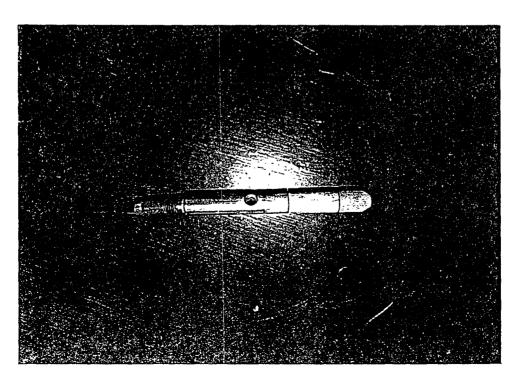
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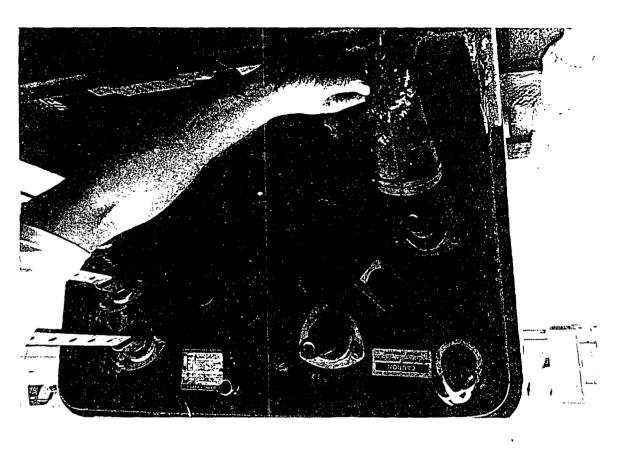
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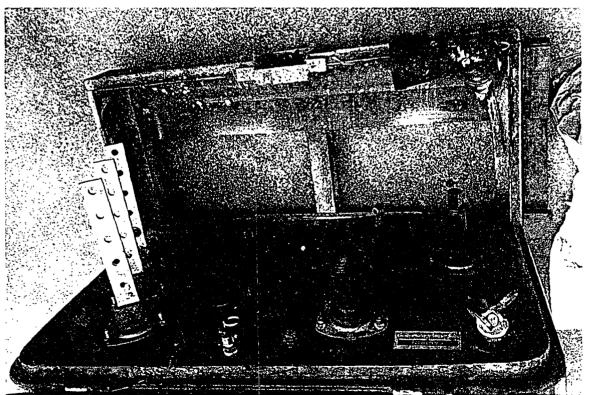
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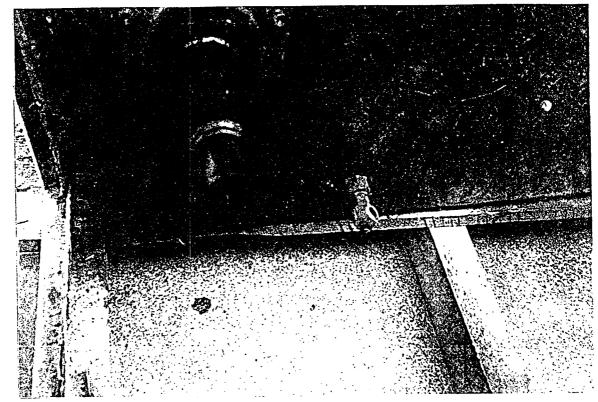
Attachment B
Photographs of Accident Site















を記述



