COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

LOUISVILLE GAS AND ELECTRIC COMPANY

ALLEGED VIOLATION OF COMMISSION REGULATIONS 807 KAR 5:006 AND 807 KAR 5:041 CASE NO. 97-376

<u>ORDER</u>

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, and which was formed under KRS 279.010 to 279.220, is a utility subject to Commission jurisdiction. KRS 278.010; KRS 279.210.

KRS 278.280(2) directs the Commission to prescribe rules and regulations for the performance of services by utilities. The Commission has promulgated 807 KAR 5:006, Section 24, which requires each utility to adopt and execute a safety program. LG&E has executed such a safety program by programming its own safety manual adopted as "LG&E Safety Resource Handbook."

Commission Staff has submitted to the Commission a Utility Accident Investigation Report dated February 3, 1997, appended hereto, which alleges:

1. On January 27, 1997, Walter J. Jackson, was fatally injured while performing maintenance of number 4A1 condenser at LG&E Mill Creek Generating Station by "shooting darts" to clean the condenser tubes.

2. At the time of the incident, Mr. Jackson and Don Sanders were cleaning the condenser tubes, Mr. Jackson was shooting the darts into the tubes inside the condenser and Mr. Sanders was observing from the outside. Mr. Jackson was working while standing upon a platform constructed of two 2x10 pieces of wood. After approximately 25 minutes of performing this task, Mr. Jackson collapsed, falling through an opening of approximately three feet left uncovered between the platform and the condenser wall. He fell about six feet to the metal grid covering the butterfly inlet valve. Apparently, Mr. Jackson then fell from the grating into a pool of water at the bottom of the condenser.

3. The failure of LG&E to have written maintenance procedures for the cleaning of the condenser is a probable violation by LG&E of Commission Regulation 807 KAR 5:006, Section 24.

4. The failure of LG&E to provide, or have in place, gas analyzers or warning instrument, portable communication equipment and the failure to provide a suitable work platform, is a probable violation by LG&E of Commission Regulation 807 KAR 5:006, Section 24.

5. The absence of fall protection equipment, pursuant to LG&E's own handbook, represents a probable violation by LG&E of Commission Regulation 807 KAR 5:006, Section 24.

6. Furthermore, LG&E had not explained any safety procedures to Mr. Jackson prior to his beginning the job which is a probable violation of Commission Regulation 807 KAR 5:006, Section 24.

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 is in

-2-

probable violation of 807 KAR 5:006, Section 24, as contained in paragraphs 3 through 6 above.

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

1. LG&E shall submit to the Commission, within twenty days of the date of this Order, a written response to the allegations contained in the Utility Accident Investigation Report and this Order.

2. LG&E shall file with the Commission within 20 days from the date of this Order a copy of the results of the autopsy report performed upon Mr. Jackson.

3. LG&E shall appear before the Commission on October 17, 1997, 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 807 KAR 5:006, Section 24, and of showing cause why it should not be subject to the penalties prescribed in KRS 278.990(1) for its alleged failure to comply with Commission regulations.

4. The Utility Accident Investigation Report of February 3, 1997, a copy of which is appended hereto, is hereby made a part of the record of this proceeding.

5. 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.

-3-

Done at Frankfort, Kentucky, this 17th day of September, 1997.

PUBLIC SERVICE COMMISSION

Anida K Breathott Chairman

Vice Chairman airman A. Helfow

ATTEST:

Executive Director

APPENDIX

July 7, 1997

AN APPENDIX TO AN ORDER OF THE KENTUCKY PUBLIC SERVICE COMMISSION IN CASE NO. 97- 376 DATED 9/17/97

Page 1

UTILITY ACCIDENT INVESTIGATION REPORT

| Utility: | Louisville Gas & Electric Company | | • | • | | |
|--|--|--|---|--|---|----------------------|
| Reported By: | George Siemens | | | · · | | |
| Dates & Times | | | ·· | · · · | | |
| Accident Occurred: | 01/27/97 - 11:30 p.m. | | | | · · | |
| Utility Notified: | 01/27/97 - 11:40 p.m. | | · / · | | | |
| PSC Notified: | 01/28/97 - 1:15 a.m. | | · . | | | |
| Investigated: | 01/28/97 | · · · | | | | |
| Written Report Rcvd: | 02/03/97 | | | | | • |
| Location of Accident: | Mill Creek Power Plant, 14660 Dixie Hig | ghway, Lou | iisville, Ke | ntucky | | |
| | · · | | | | | |
| Description of Accident: | Mill Creek Unit 4 was out of service for r Walter Jackson were cleaning the conden in the tubes inside the condenser, and Mr After approximately 25 minutes of shooti platform where he was standing to the me (See Attachment A and B.). Mr. Walter . wood inside the condenser to perform his feet between the 2 x 10 piece of wood an Mr. Jackson fell through that opening. | ser tubes. Sanders v ing darts, N etal grid co Jackson wa s job. An c | Mr. Jackso was observi Mr. Jackson overing the as standing opening of a | on was sho ing from t fell from butterfly i on a 2 x 1 approxima | boting da he outsid the inlet valv 0 piece o ately thre | e. re. of e |
| | Walter Jackson were cleaning the conden- in the tubes inside the condenser, and Mr After approximately 25 minutes of shooti platform where he was standing to the me (See Attachment A and B.). Mr. Walter . wood inside the condenser to perform his feet between the 2 x 10 piece of wood an | ser tubes. Sanders v ing darts, N etal grid co Jackson wa s job. An c | Mr. Jackso was observi Mr. Jackson overing the as standing opening of a | on was sho ing from t fell from butterfly i on a 2 x 1 approxima | boting da he outsid the inlet valv 0 piece o ately thre | e. re. of e |
| Accident: | Walter Jackson were cleaning the conden- in the tubes inside the condenser, and Mr After approximately 25 minutes of shooti platform where he was standing to the me (See Attachment A and B.). Mr. Walter . wood inside the condenser to perform his feet between the 2 x 10 piece of wood an | ser tubes. Sanders v ing darts, N etal grid co Jackson wa s job. An c | Mr. Jackso was observi Mr. Jackson overing the as standing opening of a | on was sho ing from t fell from butterfly i on a 2 x 1 approxima | boting da he outsid the inlet valv 0 piece o ately thre | e. of e |
| Accident: Victims: | Walter Jackson were cleaning the conden in the tubes inside the condenser, and Mr After approximately 25 minutes of shooti platform where he was standing to the me (See Attachment A and B.). Mr. Walter . wood inside the condenser to perform his feet between the 2 x 10 piece of wood an Mr. Jackson fell through that opening. | ser tubes. Sanders v ing darts, N etal grid co Jackson wa 5 job. An c d the cond | Mr. Jackson was observing Ar. Jackson overing the as standing opening of enser wall | on was sho ing from the fell from butterfly i on a 2 x 1 approxima was left u | boting da he outsid the inlet valv 0 piece of ately thre nsecured | e. of e |
| Accident: Victims: Name: | Walter Jackson were cleaning the conden in the tubes inside the condenser, and Mr After approximately 25 minutes of shooti platform where he was standing to the me (See Attachment A and B.). Mr. Walter . wood inside the condenser to perform his feet between the 2 x 10 piece of wood an Mr. Jackson fell through that opening. Mr. Walter J. Jackson Louisville Gas & Electric Company Fatal | ser tubes. Sanders v ing darts, N etal grid co Jackson wa 5 job. An c d the cond | Mr. Jackson was observing Ar. Jackson overing the as standing opening of enser wall | on was sho ing from the fell from butterfly i on a 2 x 1 approxima was left u | boting da he outsid the inlet valv 0 piece of ately thre nsecured 41 | e. of e |
| Accident: Victims: Name: Addr./Empl.: | Walter Jackson were cleaning the conden in the tubes inside the condenser, and Mr After approximately 25 minutes of shooti platform where he was standing to the me (See Attachment A and B.). Mr. Walter . wood inside the condenser to perform his feet between the 2 x 10 piece of wood an Mr. Jackson fell through that opening. Mr. Walter J. Jackson Louisville Gas & Electric Company | ser tubes. Sanders v ing darts, N etal grid co Jackson wa job. An c d the cond Fatal: | Mr. Jackson was observing Ar. Jackson overing the as standing opening of enser wall | on was sho ing from the fell from butterfly i on a 2 x 1 approximation was left un Age: | boting da he outsid the inlet valv 0 piece of ately thre nsecured 41 | e. of e |

| July 7, 1997 | | Page 2 |
|----------------------------|---|---|
| | Name | Address/Employment |
| | Chris Hermann | Louisville Gas & Electric Company |
| | Gregory B. Fergason | Louisville Gas & Electric Company |
| | Larry Miller | Louisville Gas & Electric Company |
| Sources of Information: | John N. Voyles, Jr. | Louisville Gas & Electric Company |
| | Rolf Parr | Louisville Gas & Electric Company |
| | Bob Easton | Louisville Gas & Electric Company |
| | Nancy Vimont Strickland | Louisville Gas & Electric Company |
| | Ray Wallace | Louisville Gas & Electric Company |
| Probable Violations: | Mr. Jackson had no fall protection equips explained to him prior to the beginning or requirement in its "LG&E Safety Resource B.8.3, "Employees working from equips transmission, or distribution or similar un elevated four (4) feet or more above a low and lanyards, life lines or shall be protect procedure for cleaning the tube inside the violation of 807 KAR 5:006, Section 24, execute a safety program. | of the job. LG&E did not enforce the ce Handbook", which states on Page 32, nent pertaining to power generation, nguarded working surfaces which are wer level shall be secured by safety belts ted by safety nets. LG&E had no safety e condenser. LG&E is in a probable |
| Investigated By: | John W. Land, Faud Sharifi, and Elie El- | Rouaiheb, PSC Engineering Staff |
| Signed: | Johnw Land | |
| | Part Shap. | |
| | Elie Alonaiheb. | |

Attachments A. Louisville Gas & Electric Company's Accident Report

- B. Staff Engineering ReportC. Procedures for Cleaning the Mill Creek Unit 4 Condenser
- D. Police ReportE. Copy of Death Certificate

Attachment A Louisville Gas & Electric Company's Accident Report



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

P.01/03

February 2, 1997

Ms. Martha Morton Kentucky Public Service Commission 730 Schenkel Lane P. O. Box 615 Frankfort, KY 40602

Incident at LG&E Generating Plant RE: Mill Creek Unit 4

Dear Ms. Morton:

Attached is an "Investigation Report" on the above incident. This is filed in compliance with the seven-day reporting requirement.

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

Very truly yours,

eretaion

Gregory B. Fergason Regulatory Affairs Coordinator

Attachment



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

Feb 3 '97 16:33 P.02/03



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

arm

INVESTIGATION REPORT

ACCIDENT

Type of Report

<u>A L Miller</u>

Investigator

<u>97-M-005</u> Report Number

January 27, 1997 Date of Incident

A SUBSIDIARY OF

LG&ENERGY

Reference: LG&E Employee Fell

Location: Louisville Gas & Electric Company Mill Creek Generating Station 14660 Dixie Highway Louisville KY. 40272

Case Summary:

On Tuesday January 28, 1997, at approximately 01:07 hours, I was notified by George Siemens, Director of External Affairs, about an employee falling at the Mill Creek Generating Station. Mr. Siemens also notified Martha Morton with the Public Service Commission.

At 02:23 hours, I arrived at Mill Creek Generating Station and was informed Mr. Walter J. Jackson had fallen from a platform located inside the number 4A1 condenser and was critically injured. Mr. Jackson collapsed and fell at approximately 23:30 hours on Monday, January 27, 1997.

Mr. Don Sanders reported he was the backup person to Mr. Jackson. Mr. Sanders stated he was watching Mr. Jackson through the top hatch of the condenser while he was working. He stated at 23:00 hours on Monday, January 27, 1997, the air quality was tested with an MSA meter prior to starting work. The meter showed there was a 20.8% oxygen level inside the condenser and there were 0 % readings on the LEL, PPM CO, PPM H2S, and PPM SO2. Mr. Jackson was in the process of shooting darts (plastic devices that clean the condenser tubes) through the condenser tubes with high pressure water and air. Mr. Sanders stated after approximately twenty five (25) minutes of working inside the condenser, Mr.

LG&E EXEC DF 12th FL. Fax:1-502-627-2930

P.03/03

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Investigation Report Page 2

Jackson stated he was going to rest for a minute and when he turned around he collapsed and fell, sliding down between the condenser wall and the platform and then he fell to the grating below, a distance of approximately six (6) feet. Mr. Sanders stated he climbed down from the exterior grating to the basement floor and ran to a mike for the Public Address System and called for help. He stated when he climbed back up to the lower level at the bottom hatch to the condenser he could see Mr. Jackson had fallen from the grating to the water below a distance of approximately six (6) feet and five (5) inches, and was floating face down. Mr. Sanders stated he climbed into the condenser and into the inlet line and down to where Mr. Jackson was floating and grabbed him from the back and pulled his upper torso out of the water. Mr. Jackson was removed from the condenser by Mr. Sanders and the Emergency Response Team members and the supervisors. Mr. Jackson was placed on the grating outside the condenser and at this time Jefferson County Police and EMS arrived and began CPR. At approximately 00:20 hours on Tuesday January 28, 1997, Mr. Jackson was loaded on the Stat Flight (helicopter) and taken to University Hospital where he was placed on life support. Mr. Jackson died at approximately 21:00 hours.

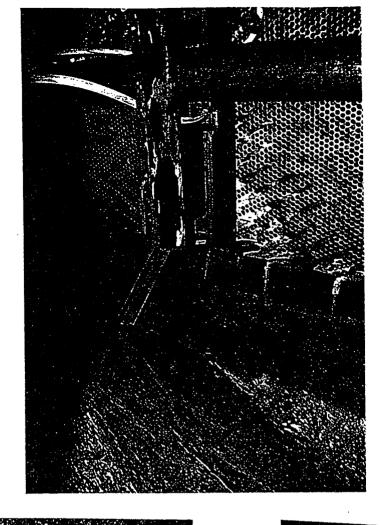
In a later interview on Thursday, January 30, 1997, Mr. Sanders told Company officials that Mr. Jackson fell onto the platform at the top of the condenser. He went to summon help at this point, and when he returned, Mr. Jackson was in the water at the bottom of the condenser.

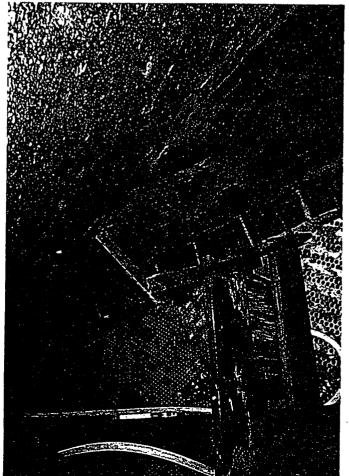
Mr. Jackson was forty-one (41) years of age.

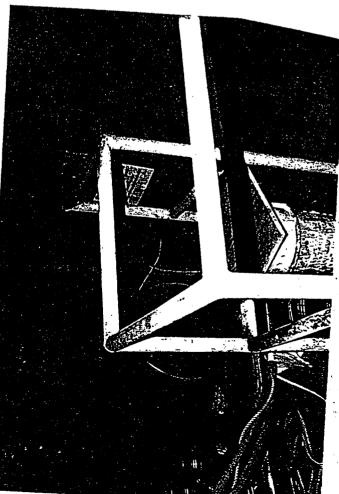
Photographs were taken of the accident site.

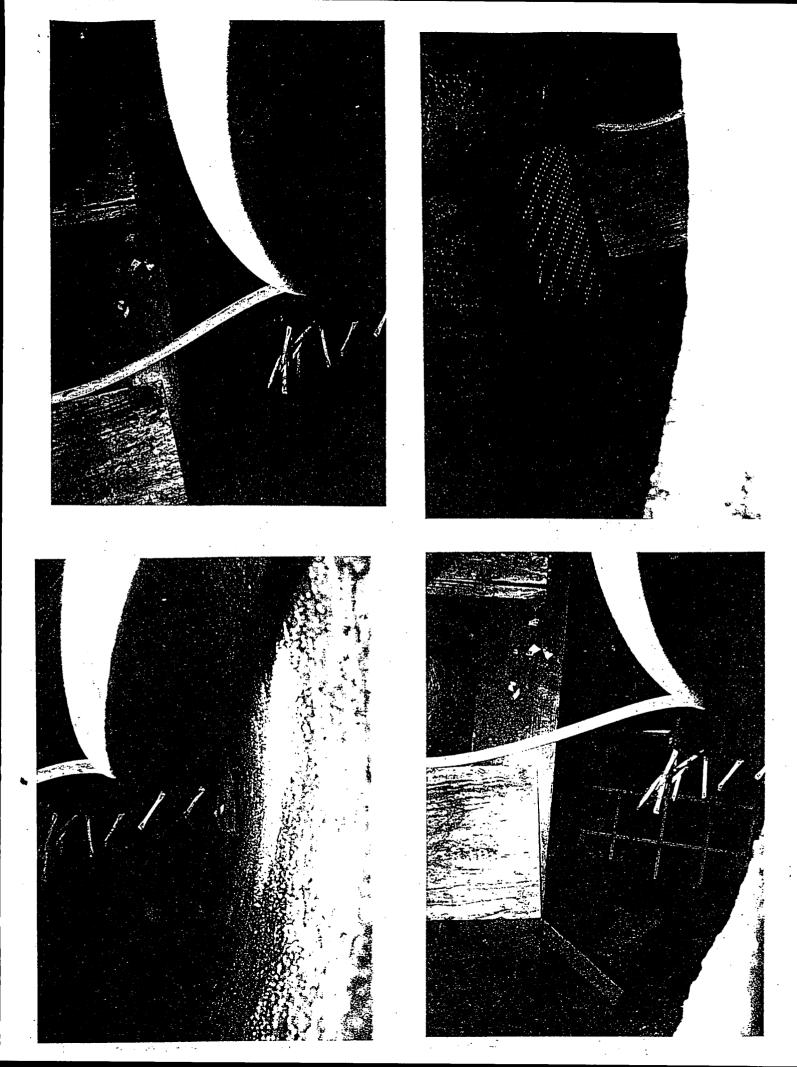
On Tuesday, January 28, 1997, at approximately 09:45 hours, Mr. John Land with

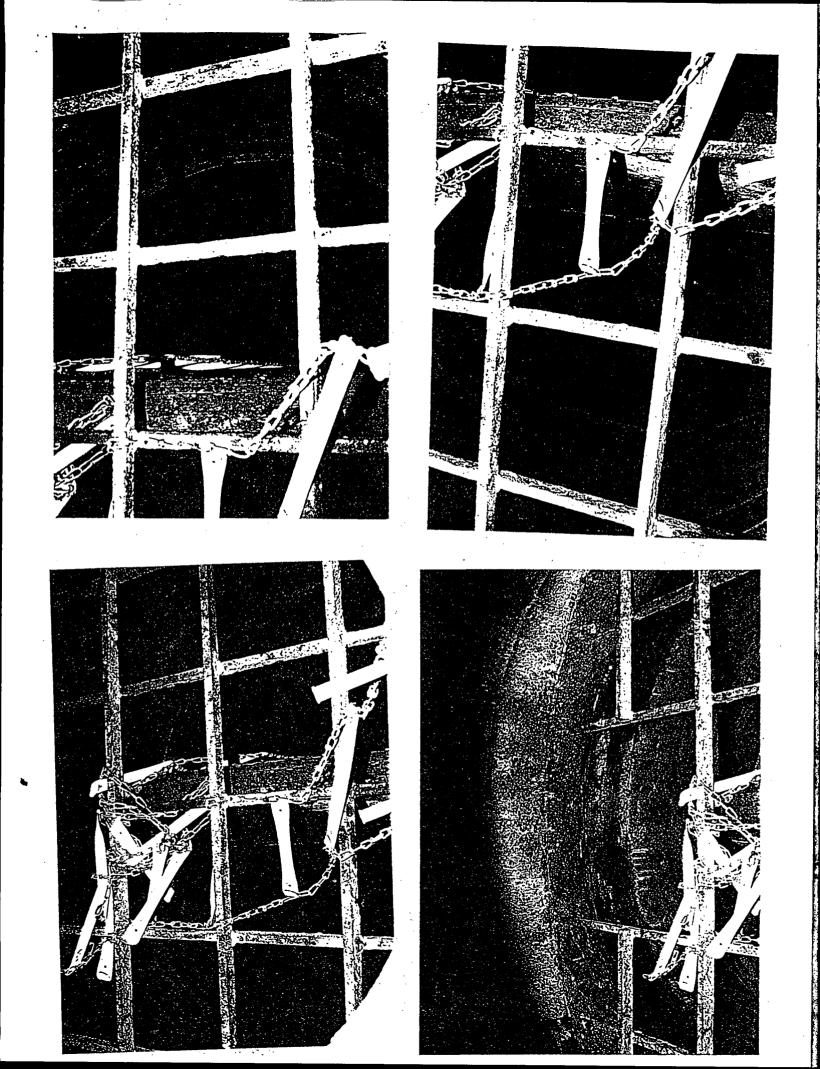
the Public Service Commission arrived to investigate the incident.

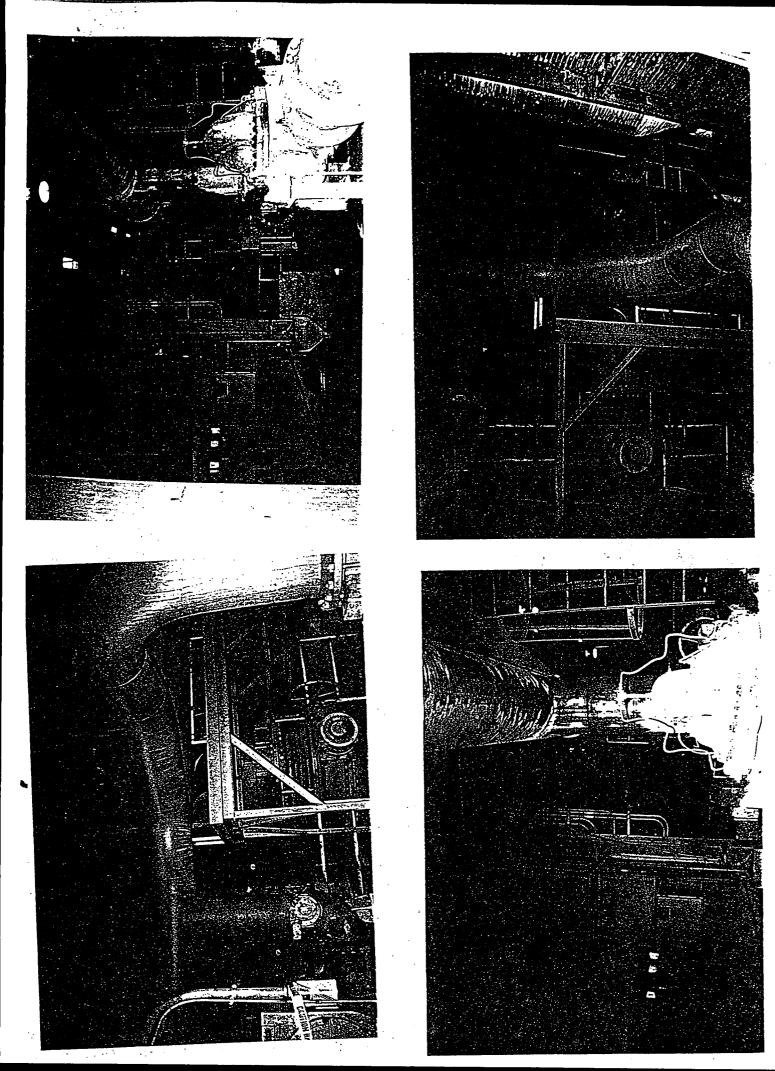


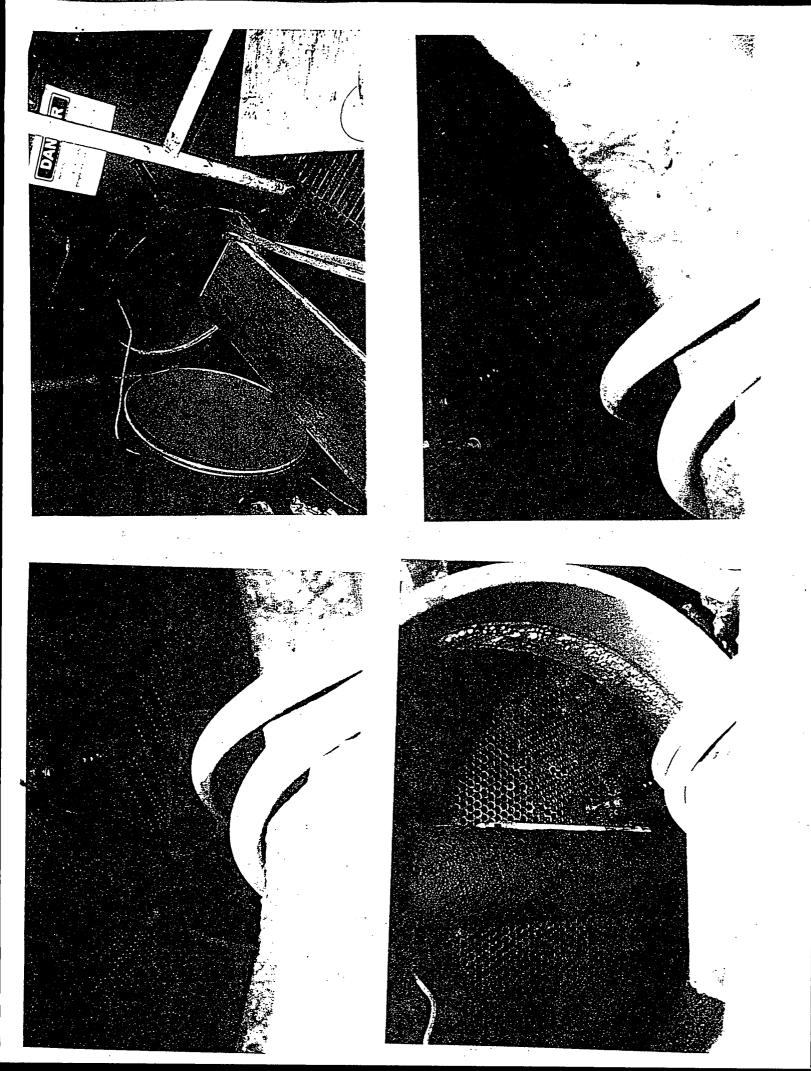


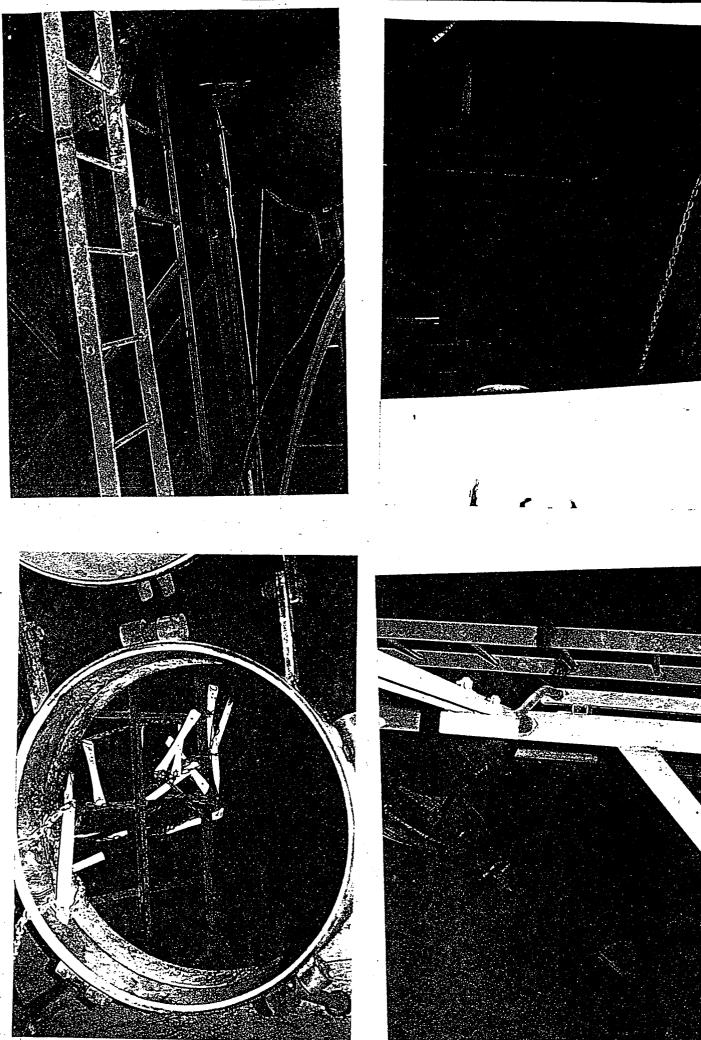


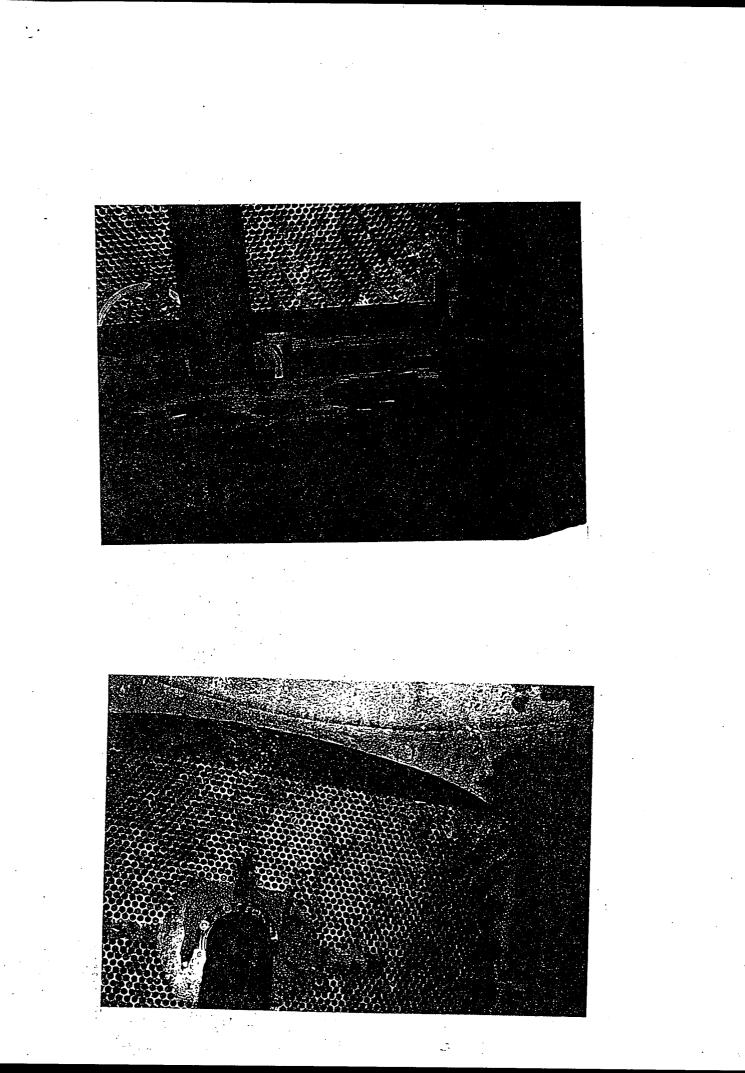












LGE Wholesale Electric

AIR MONITOR RECORD

| | Rev. 09/30/93 CSair |
|--|---------------------------------------|
| 1. Plant/Unit mc 4 2. E.I.D. # | · · · · · · · · · · · · · · · · · · · |
| 3. Equip. Desc. UNIT 4 CONDENSOR WATER BOXES 4A1 | |
| 4. Space Location/Desc 4 BASE MENT | |
| 5. Space #. 6. W.O. # H-35406 7. Da | ate 1-27-97 |
| 8. Calibrated Y/N y 9. Cal. By 54x7145, D.L. | |
| 10. Work Activity Desc. SHOOTING CONDENSOR TUBES | |
| 11. Permit Issued Y/N? | |
| 12. Engineering Controls | |
| | · . |

| Specific Location | Initials | Date | Time | Meter | %02 | %LEL | РРӍ СО | PPM H2S | PPM SO2 | Other |
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Employee Critically Injured At Mill Creek

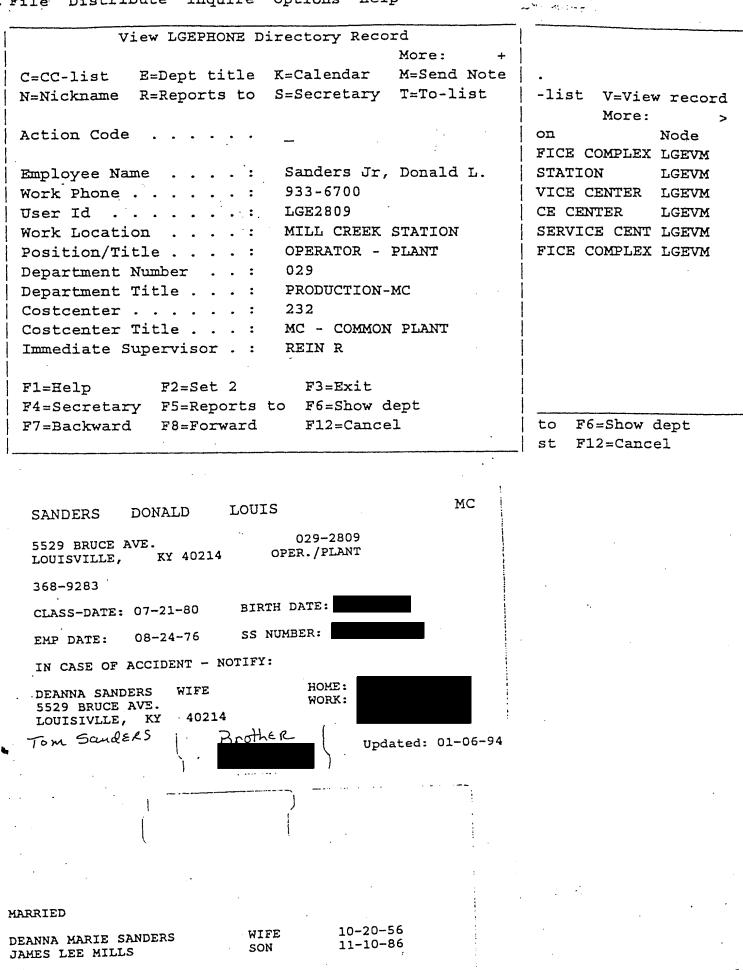
1 am very sad to report that Walter Jackson, 42, Wholesale Electric, was critically injured after falling from equipment at our Mill Creek generating station last night.

Walter and another employee were working on the Mill Creek 4 condenser at the plant when he collapsed and fell. Walter is in critical condition at University Hospital. The Public Service Commission and KOSHA were notified during the night, and we are in the process of conducting a full-scale investigation.

We, in the Wholesale Electric Business, are deeply troubled and saddened by this incident and will take every measure to ensure his family members are cared for in their time of need,

/ Chris Hermann Vice President and General Manager Wholesale Electric Business

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Witness

Sanders, Donald Lewis

29-2809

Injuries:

No Past History

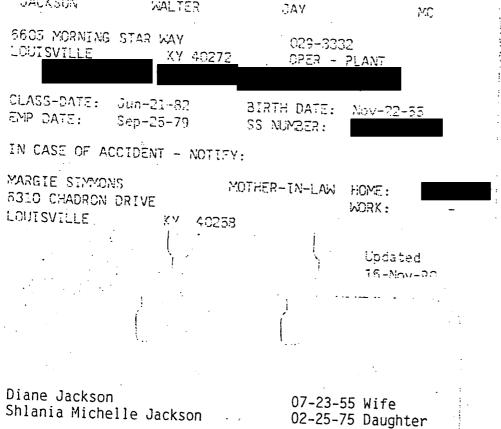
Work History:

Employment Date - 8/24/76 at Cane Run as a Station Helper

| Classification Date - 8/24/76 | Station Helper |
|-------------------------------|---------------------------|
| 5/16/77 | Transferred to Mill Creek |
| Classification Date - 7/25/77 | Auxiliary Operator |
| Classification Date - 7/21/80 | Operator - Plant |

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| User Id : | LGE3332 | | CENTER | LGEVM | TR |
| Work Location : | MILL CREEK | STATION | ATION | LGEVM | OP |
| Position/Title : | OPERATOR - | PLANT | | | |
| Department Number : | 029 | | | | |
| Department Title : | PRODUCTION | -MC | | | |
| Costcenter : | 232 | | | | |
| Costcenter Title : | MC - COMMO | N PLANT | | | |
| Immediate Supervisor . : | LOVE K | | | | |
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Jackson, W. J. 29-3332

Injuries:9-14-78Lost Time Injury-bruised and lacerated left knee1-13-81Lost Time Injury- Contusion scalp, strain neck and parascapular
muscles2-14-83Not Lost Time-Foreign body in left eye12-22-83Lost Time Injury-Contusion left lower chest, strain.

Work History:

Employment Date - 9/25/79 at Mill Creek as a Station Helper

| Classification Date - 9/25/79 | Station Helper |
|-------------------------------|-------------------------|
| Classification Date - 9/01/80 | Auxiliary Operator |
| Classification Date - 6/21/82 | Operator - Plant |

Utility Accident Investigation Report Louisville Gas & Electric Company Mr. Walter J. Jackson

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Attachment B Staff's Engineering Report

Utility Accident Engineering Report

Introduction

On Wednesday, February 12, 1997, Elie El-Rouaiheb and Faud Sharifi ("Staff"), investigated an incident that had occurred at Louisville Gas & Electric Company's ("LG&E") Mill Creek power plant in Louisville.

Staff conferred with John N. Voyles, Jr., Plant General Manager; Gregory B. Fergason, Regulatory Affairs Coordinator; Rolf Parr, Director of Safety; Ray Wallace, Health and Safety Specialist; Bob Easton, Manager, Health and Safety; and Nancy Vimont Strickland, Industrial Hygienist.

John Voyles gave a presentation about the structure of Condenser No. 4 where the fatal accident occurred on January 27, 1997.

Mr. Voyles said that this type of work has been carried out since 1982 without incident. No written safety procedure existed at the time of the accident. LG&E has established a safety procedure after the accident.

Findings

Unit No. 4 is a 500 MW, coal fired steam turbine. On January 27, 1997, this unit was out of service and under an overall maintenance. The low pressure steam leaves the steam turbine and is condensed in the water condenser. The water condenser is composed of four sections. Each section has two hatchways (Man ways) from each side. The upper hatchway is located on an elevated catwalk accessible by a stairway. Water is fed into this section of the condenser from the bottom of the condenser via a butterfly valve, which was open at the time of the accident. The gate of the valve was submerged in water. The distance between the tubes' sheet and the condenser wall at the platform level was about five feet and the gap increased at the lower part of the condenser, The cleaning process of the tubes is to shoot plastic darts through them with high pressure water and air. The crew stands on two pieces of plywood, placed on two (2 x 10 inches by about 6 feet) pieces of wood. The two pieces of wood are located about one foot apart because of the vacuum vertical pipe that runs between them. The crew normally consists of two people who work inside, and one backup stays outside the condenser. At the time of the accident Mr. Jackson was shooting darts by himself. Mr. Sanders was a backup who stayed outside the condenser. Air quality inside the condenser was tested prior to commencement of work. The oxygen measured 20.8%.

Approximately 25 minutes from the beginning of shooting darts, Mr. Jackson collapsed and slid down from the platform. It appears that Mr. Jackson fell on the grid covering the butterfly valve. Since the butterfly valve was open, the butterfly gate was in a vertical position. The thickness of the gate is about three inches and this will leave about a three feet opening from each side of the gate. The grid was about six feet below the plywood were Mr. Jackson was standing. There were iron grids, bars, and cables inside the condenser. Although most of the dirt and scale removed during cleaning are driven by the darts into the other side of the tubes, the wooden platform could have been slick with wet dirt and scale deposits. The space of the cleaning zone was confined and natural ventilation in that enclosed environment must have been limited.

The crew did not have a written safety procedure to perform their work. The crew did not \rightarrow carry a gas analyzer or warning instruments in case of lack of oxygen or presence of other undesirable gases in the condenser. The crew did not have portable communication equipment to γ contact emergency personnel in case of emergency. Mr. Jackson was not equipped with a harness. \rightarrow

By visual inspection of the interior of the condenser, it did not appear that the condenser was designed to accommodate-manual cleaning inside the condenser. There was no easy access from hatchways to the interior parts of the condenser, and no proper supports for platforms.

Recommendations

1. LG&E should contact the designers of the condenser and consult with them on the best method of cleaning the tubes and any modifications or additional equipment required to operate the cleaning process in a safe manner.

2. LG&E should provide continuous education to its crews regarding safety procedures which LG&E established after this accident.

3. The space available for cleaning the condenser's tube is a confined space. External forced air should be supplied into the condenser when people are working inside it. An adequate sized air blower to meet the quantity and quality of air should be considered.

4. Adequate lighting above and below the platforms should be provided.

5. The platform should cover the full working area and made of non-slick material such as a grading platform.

6. There should be internal ladders with easy access from the upper and lower hatchways to the platform or any part of the working zone inside the condenser.

7. The crew should be equipped with an oxygen analyzer and communication devices as necessary.

8. LG&E should provide the crew with fall protection, goggles, hard hats, special gloves, and special non-slick shoes.

9. Safety personnel should provide special permits issued for maintenance crews to follow on any job that requires a safety procedure. The permit should provide clear instructions for the crew to implement their work in a safe manner. Preferably the safety personnel and the crew should sign the permit prior to starting any work that the safety personnel consider as a safety hazard.

10. The water inlet valve should be closed, preferably locked in a closed position during the maintenance period.

Faud Sharifi, Acting Branch Manager Gas Branch

Flie ET-Rousikel

Elie El-Rouaiheb, Engineer Electric Branch

Attachment C Procedures for Cleaning the Mill Creek Unit 4 Condenser

Utility Accident Investigation Report Louisville Gas & Electric Company Mr. Walter J. Jackson

Procedures for Cleaning the Mill Creek Unit 4 Condenser

(Rev 4/27/97)

- 1) Remove the Cooling Tower Pumps from service and place *HOLD CARDS* on same. (The Horizontal Service Water Pumps should also be carded and isolated at this time)
- 2) Close the Condenser inlet and outlet waterbox isolation valves (4) and place DANGER CARDS on same.
- 3) Drain the Condenser waterboxes.
- 4) Open the Condenser waterbox doors on front and back. (16)
- 5) Contact Maintenance Services or a qualified contractor to install a *Work Deck* over the gratings that are covering the openings for the condenser inlet and outlet lines.
- 6) Contact Maintenance Services for the *removal* of any *ASBESTOS* fill from inside the condenser waterboxes.
- 7) Contact Maintenance Services or a qualified contractor to install *Scaffolding* in the east side waterboxes for Operations to work off of.
- 8) Calibrate a Passport Air Monitor.
- 9) Perform Job Briefing before starting the job and at the change of each shift.
- 10) Review the *CONFINED SPACE* requirements and view the videocassette that is located in the Production Leader's Office.
- 11) Wear appropriate PPE (Personal Protective Equipment Such as Hard Hat, Eye & Ear Protection and Work Gloves) and optional PPE to deal with Legionella concerns (Coveralls or Rainsuit, Rubber Gloves and Respirator)
- 12) Obtain extension cords, lighting and *Ground Fault Protection* from the Operations storage area. There is an electrical outlet located on the west side of the condenser on the I-Beam located in between the "A" and "B" Condenser.
- The new lights are heavy duty, waterproof and have a large magnet on the back for wall mounting.
- 13) Before entering the condenser waterbox, review the *Fall Protection* guidelines to determine need, based on type of *Scaffold* or *Work Platform*.
 - **NOTE:** Body Harnesses will be worn by all employees entering the condenser regardless whether or not they will be tied off to a life line.
 - NOTE: RADIO COMMUNICATION will be used anytime an attendant is used.
- 14) Obtain the Conco hoses, Conco Water Guns and cleaning darts (approximately 1300 darts) from the Operations tool storage room. Install the one inch hose to the connection off of the Sealing Water Header on the east side of the condenser. Be sure to install a pressure gauge (0-400 psi) right after the isolation valve. The one inch hose should be ran off of the header to a "T" at which time two (2) three quarter inch hoses
- can be ran to the back of the condenser. The Conco Water Guns should be connected to the other end of these hoses. The Conco Water Guns should be in good working condition with splash guards attached and new brass tips installed.
- 15) Load (insert) the cleaning darts into the condenser tubes.
- 16) Install the tarp for the retrieval system on the opposite side of the condenser. (Follow the same guidelines for *Fall Protection* as above)
- 17) Shoot the cleaning darts through the condenser tubes, one at a time using the Conco Water Gun that is being supplied water from the Make-up Pumps. Approx - 300 psi
- Once the darts have been shot, Operations can retrieve them from the other side.
 NOTE: Baseline air monitoring tests performed by Health and Safety have determined
 - that the ASBESTOS levels are safe for Operations to retrieve the cleaning

darts. This is as long as the **ASBESTOS** fill is wet and Operators are not removing any of it. Any removal of the **ASBESTOS** material should be done by gualified Maintenance personnel.

- 19) Before the *Scaffolding* or *Work Platform* is removed, check that all of the tubes that have been cleaned (by placing a light in the waterbox on the opposite end and looking thru the tubes) to see if any darts are stuck. If so, use the fiberglass rods that connect together to push these darts out.
- 20) Contact Maintenance Services or a qualified contractor to remove any Scaffolds or Work Platforms.
- 21) While this job is ongoing, it is very important to keep *Housekeeping* in order. Please keep all tools and material in their proper place and all walkways, work platforms and access doorways clear of trash and debris.

22) Continue this procedure until all four (4) condenser waterboxes have been cleaned.

23) When complete, remove all equipment from the condenser, clean it and store it in the Operations storage area.

24) Again, contact Maintenance Services or a qualified contractor to remove any *Scaffolds* or *Work Platforms* from inside the condenser.

Attachment D Police Report

Utility Accident Investigation Report Louisville Gas & Electric Company Mr. Walter J. Jackson

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| JEFFERSON COUNTY POLICE DEPARTMENT KY 0560100 (χ) DRI | IGINAL REPORT () SUPFLEME | NTARY REPORT | () CORRECTION 15.03 | ŻA |
|--|--|--|--|--------------------|
| REPORT NUMBER $7-003174$ DATE OF REPORT OF TIME OF OFFENSE: From Date $01-27-97$ Time 2335 HOW REPORTED: (1)1-Dispatch ()2-Phone ()3-Investigation | To Date 01-27-97 Tim | | Nit Entry | |
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| TITLE OF INVESTIGATION | CODE | | CITATION NUMBER | |
| 1 INCIDENT | 630/3 | 0 | | |
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| OCATION Address Meter DixiE HWY. | CITY | | ZIP 40272 | |
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| dress 6605 MORNING STAR WAY City | | | ZIP _40272 | |
| PLOYER ADDRESS 14660 Dixie Huy. | ENPLOYER LGSE | <u>s enp phon</u> | E 933-6500 | |
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| Marce DOB Address SS2.9 CTIM TYPE: ()1-Business ()2-Bank ()3-Bovernment ()4-In ENT OF INJURY TO VICTIM: ()1-None ()2-Broken Bones () ()6-Minor Injury ()17-Loss of Teeth ()8-Possible Intern SUSTAINED: ()1-Accidental/Medical Attention ()2-Ac)4-Self Inflicted/No Medical Attention ()15-Aggressive ()16-Aggressive Act/No Medical Attention | dividual ()5-Religious Grou)3-Severe Cuts ()4-Other al Injuries ()9-Unconscio cidental/No Medical Attention Act/Medical Attention | (P 4021 (p ()6-Soc Major injur pus ()3-Se | 4 Phone iety ()7-Other ()8-Unk ry (X)5-Death(Accive) If Inflicted/Medical Attn | |
| porting Officers <u>J. L. Hayen J. e. S. Hardy</u> | · · · · · | | | immed and a second |

SUPPLEMENTARY REPORT JEFFERSON COUNTY POLICE DEPARTMENT Offense Date of Report | Time of Report | Report Number DEATH INVESTIGATION 02/18/97 2400 HRS. #7-003176-R Date of Offense Time of Offense | Day of Week Offense Location L. G. & E. JANUARY 28, 1997 0030 HRS. TUESDAY 14660 DIXIE HIGHWAY Victim Address Race/Sex/Age Phone No. W/M/41/DOBJACKSON, WALTER J. 6605 MORNING STAR SS WAY

RE: NOTIFICATION / SCENE / INTERVIEW WITH DONALD SANDERS / INVESTIGATION OF SCENE / STATUS OF VICTIM /

ADDITIONAL INFORMATION ON VICTIM:

Employed: Louisville Gas & Electric Date: 09/25/79

INTERVIEWED:

Donald Sanders W/M/43/DOB 111753 5529 Bruce Avenue #368-9283

Page - 2 Death Investigation Walter J. Jackson

NOTIFICATION

On January 28, 1997 at 0045 hours, the undersigned, Det. Tim Skaggs (#596), was requested to respond to the Louisville Gas & Electric plant at 14660 Dixie Highway on an industrial accident. Officers were on the scene at that location and advised that the victim had been removed by STAT Flight to University Hospital. Det. Monty Higdon (#595) responded to the hospital, his investigative letter will be included in this case file. I responded to the scene from the Violent Crimes Unit's office.

SCENE

I arrived at the plant at 0115 hours. I was met at the front gate by a security officer. This officer escorted me onto the grounds where I was taken to a conference room inside the plant.

Off. S. Hardy (3D22) and Off. M. Hayes (3D22-A) were present in the conference room with a member of the L.G.& E. management staff. Off. Hayes advised me that they had responded to the plant on an injured subject. The victim had been working on a condenser unit in the plant. He had fallen approximately twenty feet (20') into a pool of water from a catwalk. A co-worker had pulled the worker from the pool of water and C.P.R. had been started at the scene.

Off. Hayes was completing the original offense report. I was provided with the personal information on the victim which was located on the cover page of this report.

The co-worker who was present at the time of the accident was brought to the conference room for this detective to interview.

INTERVIEW WITH DONALD SANDERS

Donald Sanders was the co-worker present with the victim at the time of the incident. Donald Sanders stated that he has worked for L.G.& E. for twenty and one-half years. He stated that he is classified as an "Operator."

Page - 3 Death Investigation Walter J. Jackson

Donald Sanders stated that the victim, Walter Jackson, and he had been working in the A-1 Condenser Inlet "shooting lines" on the upper section. He explained that this is a process were pressurized water is forced through the condenser's water lines to flush out slough and debris. This is a normal maintenance procedure when the condenser is out of service.

Donald stated that this procedure requires one man to enter the condenser unit and work from a catwalk. The second man remains outside the condenser on safety watch. He stated that before a worker enters the condenser the air quality inside the unit is tested. He stated that he conducted this test at 2300 hours, before the work began. The air quality was in the normal range.

This detective was provided with a copy of this test report. This report will be included in the case file.

Donald stated that Walter Jackson entered the condenser and began the work. He stated that Walter had "shot" approximately one hundred (100) lines, completing one side of the upper unit. He stated that Walter stopped to take a break. He stated that they had normal conversation, then he offered to trade places with Walter and finish the other side. He stated that Walter declined his offer and stated that he would finish the job. Donald stated that Walter looked like he was examining the job when he suddenly fell back against the wall of the condenser. Donald stated that Walter then fell to his knees, then rolled off the catwalk and fell to the next level. He stated that this was a distance of approximately ten feet (10').

Donald stated that he climbed down from the upper level of the condenser and ran to call for assistance. He stated that when he returned, Walter was no longer on the second level. He stated that Walter had fallen into a pool of water in the bottom of the condenser unit. He stated that this pool is approximately seven feet (7') below the second level. The pool is approximately six feet (6') at the deepest point, as the condenser funnels down at the bottom. Donald stated that he then climbed down to ground level. He stated that he was able to reach the victim and pull him partially up out of the water by his raincoat. He stated he held the victim until help arrived. At that point a ladder was lowered into the pool of water. Two (2) workers climbed into the

Page - 4 Death Investigation Walter J. Jackson

pool and were able to lift the victim out. The victim was not breathing when he was removed from the pool of water. C.P.R. was started at the scene until E.M.S. personnel arrived.

Donald Sanders stated that Walter was in good spirits today at work. He had not been complaining of any illness or medical problems. He stated that the victim did not call out in pain or grab his chest before he fell backwards. He stated that Walter had been talking normal and acting fine until he suddenly fell back against the condenser wall. He stated that he heard Walter cough a few times after he fell to the second landing.

I completed my interview with Donald Sanders.

INVESTIGATION OF SCENE

After my interview with Donald Sanders, I was escorted to the condenser unit in the basement of building number four. This particular condenser is identified as Unit 4.

I found the condenser to be a large cylinder that appeared to be approximately four to six feet across. The condenser is accessible by three (3) manhole size openings; one is located at the level of the floor, the second is located off a catwalk approximately ten feet (10') high; and, the third is located off a catwalk approximately twenty feet (20') high. The catwalks to the second and third levels are accessible by ladders. The openings at each level were found to be open.

At the floor level I located a chain ladder that had been lowered through a metal grate to a pool of water. I did not note anything outside the opening on the second level. At the third level, where Donald Sanders stated they had been working, I found a wooden plank leading into the condenser unit. Two (2) water lines feed into the condenser unit. An electric cord that charged a light was also present. Various items were noted on the catwalk outside, including several buckets and two (2) face shields. A white nylon rope was tied to the rail of the catwalk. This rope was laying coiled on the catwalk, it did not appear that it had been used inside of the condenser unit. I looked inside of the

Page - 5 Death Investigation Walter J. Jackson

third level opening and observed a metal catwalk inside the condenser unit approximately three feet (3') below the opening. This catwalk appeared to have an opening of ten to twelve inches on the sides. I noted that placards warning of Danger potential confined space, were located outside of each opening to the condenser unit.

I photographed the above noted scene at 0220 hours.

I cleared the plant at 0230 hours.

STATUS OF VICTIM

/bai

I contacted Det. Higdon by phone at the Violent Crimes office. Det. Higdon advised that the victim was still being maintained by life support but was not expected to survive.

An autopsy examination request was faxed to the Evidence Technician Unit by Det. Higdon to make them aware of the situation. The victim was not removed from life support until late in the evening of January 28, 1997. The autopsy on the victim was performed on January 29, 1997. The results of the autopsy will be included in this case file.

This investigation is continuing.

Respectfully submitted,

imothy C. Depages

Det. Timothy C. Skaggs, #6626 Criminal Investigation Division Violent Crimes Unit

| SUPPLEMENTARY R | EPORT | | JEF | FERSON C | OUNTY PO | LICE D | EPARTMENT |
|-------------------------------------|-------|-------------------------------------|------|------------------|-------------------------|---------------|------------------|
| Offense | | Date of Re | port | Time of | Report | Repo | ort Number |
| DEATH INVESTIGAT | ION ' | 02/05/97 | • | 2300 | HRS. | #7 - 0 | 03176-R 1 |
| Date of Offense JANUARY 28, 1997 | · · . | of Offense [*] 030 HRS. | 4 NT | of Week ESDAY | Offen L.G.& 14660 | Ė. | ation HIGHWAY |
| Victim JACKSON, WALTER | J. | Race/Sex SS | /Age | | dress ORNING S WA | | Phone No. |

RE: NOTIFICATION / HOSPITAL SCENE

NOTIFICATION

On January 28, 1997 at 0050 hours, the undersigned, Det. Monty Higdon (#595), was contacted by radio and advised of an accident at the Louisville Gas & Electric plant, located at 14660 Dixie Highway. A worker had been located at the bottom of a condenser unit that he had been cleaning. The victim was being transported to University Hospital and his condition was unknown.

Det. Tim Skaggs (#596) responded to the scene and this detective proceeded to University Hospital to await the arrival of the victim.

HOSPITAL SCENE

·*• ...

I arrived at University Hospital at 0055 hours. The victim had been transported to the hospital by STAT-FLIGHT and was there in Room "9" of the Emergency Room shortly thereafter.

The victim was in a supine position on a long board. He was unconscious and unresponsive at his arrival. The victim was intubated and C.P.R. was being attempted as the victim arrived.

Page - 2 Death Investigation Walter J. Jackson

Upon first observation, the victim appeared to be wet. His hair was wet as were his clothes. He had a laceration to the forehead and abrasions to the nose and right hand. There did not appear to be any other significant outward injuries. The victim was treated in Room "9" where resuscitation was attempted, but without success. The victim was pronounced dead in Room "9" of the Emergency Room.

This concluded this detective's involvement in the investigation.

Investigation continuing.

/baj

Respectfully submitted,

Det. J. M. Higdon, #6286 Criminal Investigation Division Violent Crimes Unit

JEFFERSON COUNTY POLICE DEPARTMENT EVIDENCE TECHNICIAN UNIT EVIDENCE REPORT

I HAVE REVIEWED THIS DOC.

AND IT IS READY TO FILE.

6626

খ্যম

 RPT # 7-003176
 TECHNICIAN: Det. Tim Winders
 UNIT: 583

 DATE: 01-28-97
 TIME: 0030
 OFFENSE: Death Investigation

 VICTIM: Jackson, Walter J.
 LOCATION: 14660 Dixie Hwy

 ARRIVAL TIME: 0920
 INVESTIGATING OFFICER: Det. T. Skaggs

DESCRIBED BELOW IS THE ACTION THIS UNIT TOOK IN THE ABOVE STATED OFFENSE:

On Wednesday, 01-29-97, I attended the autopsy of the above named victim. The autopsy took place at the Urban County Government Center. I met in Pathology Department by Doctor L. C. McCloud who would perform the autopsy. The autopsy began at approximately 0920 hours and was completed at 1020 hours. Photographs were taken of the victim. These photographs will be made a part of the E.T.U.'s case file. I cleared pathology at approximately 1030 hours. The following items were collected during the course of autopsy. These items will be entered into evidence as follows:

Ex. #1 - Blood Sample (dried form)

Ex. #2 - Hair Sample (head hair)

Ex. #3 - I. D. Prints

Exhibits #1 and #2 will be placed in the ETU freezer until such time as they are needed. Exhibit #3 will be sent to Metro I. D. Bureau for comparison and elimination from their files. A copy of their report will be made a part of the ETU case file.

In Dr. McCloud's initial report, he lists a history of;

A. Fall into and submersion in water

B. Near Drowning

C. Disseminated Intravaccular Coagulation (DIC)

A copy of Doctor McCloud's report will be made a part of the ETU case file.

Respectfully Submitted,

Det. Tim Winders Evidence Technician Unit DATE: 01-29-97 /mh

LGE Wholesale Electric

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Attachment E Copy of Death Certificate

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