COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

| In the | Matter of: | | |
|--------|---|---|------------|
| | DUKE ENERGY KENTUCKY, INC. |) | CASE NO. |
| | ALLEGED FAILURE TO COMPLY WITH KRS 278.042 |) | 2010-00248 |

ORDER

Duke Energy Kentucky, Inc. ("Duke"), a Kentucky corporation which engages in the gas and electric business by purchasing, selling, storing and transporting natural gas and by generating, distributing and selling electricity to the public for compensation for lights, heat, power, and other uses, and which was formed pursuant to KRS 279.010 to 279.220, is a utility subject to Commission jurisdiction.¹

KRS 278.042 requires the Commission to ensure that each electric utility constructs and maintains its plant and facilities in accordance with accepted engineering practices as set forth in the Commission's administrative regulations and Orders and in the most recent edition of the National Electrical Safety Code ("NESC").

KRS 278.030 requires every utility to furnish adequate, efficient and reasonable service. KRS 278.260 permits the Commission, upon its own motion, to investigate any act or practice of a utility that affects or is related to the service of a utility. KRS 278.280(1) further permits the Commission, after conducting such investigation and

¹ KRS 278.010(3)(a); KRS 279.210.

finding that a practice is unreasonable, unsafe, improper, or inadequate, to determine the reasonable, safe, proper, or adequate practice or methods to be observed and to fix same by Order.

Pursuant to 278.280(2), which directs the Commission to prescribe rules and regulations for the performance of services by utilities, the Commission has promulgated Administrative Regulation 807 KAR 5:006, Section 24, which requires all utilities to adopt and *execute* a safety program.

Commission Staff submitted to the Commission an Electric Utility Personal Injury Accident Report ("Report"), dated March 24, 2010 and attached as the Appendix to this Order. The report alleges that, on July 27, 2009 in Crittenden, Kentucky, within Grant County, Kenneth Tyler Cummins, an employee of Showplace Landscaping ("Showplace"), sustained injuries which resulted in his death after a dump truck he made contact with was energized by coming into contact with a Duke conductor.

According to the Report, the victim was working with Brandon Harris, another Showplace employee, unloading mulch on Showplace property under a Duke 7,200-volt distribution line. Mr. Harris was driving the dump truck and the victim was operating another piece of equipment known as a bobcat. As Mr. Harris was unloading the mulch, the victim got off the bobcat and approached the truck. The victim instructed Mr. Harris to pull forward a little. With the bed of the dump truck fully extended, Mr. Harris began to pull up. Mr. Harris heard cracking and popping and jumped out of the truck because it was on fire. Once Mr. Harris was out of the truck, he found the victim lying on the ground. Mr. Harris then ran to the barn, which is also on Showplace property, and told another employee, Evan Chance, to call 911 because Mr. Cummins was injured.

The Report states that Duke asserted that emergency personnel arrived and found the victim lying at the back of the dump truck. It also states that Duke informed the Commission that the body and the equipment had been moved by emergency personnel before Duke personnel arrived.

Duke took photographs of the scene and of the dump truck with the bed fully extended, showing measurements. According to the photographs, the measurement of the truck bed fully extended was 16 feet, 6 inches. The photographs also show contact points on the top of the dump truck bed and the damaged conductor.

The victim was pronounced dead at the scene. According to the Grant County Sheriff's Report, both the sheriff and the coroner believe that the victim tried to move away from the truck, fell, and hit his shoulder against the tailgate of the truck while the truck was energized, causing the victim to be electrocuted. They believe a scar mark on the tailgate of the truck confirms this.

Based on Commission Staff's investigation of the accident and the information provided by Duke in its seven-day summary report and supplements thereto (Attachment A to the Report), Commission Staff alleges that Duke has violated the following provisions of the NESC:

1. NESC Section 23, Rule 232.B.1: Service Adequacy and Safety Standards--Clearances. The vertical clearance of wires, conductors, and cables above ground in generally accessible places, roadway, rail, or water surfaces, shall be not less than that shown in Table 232-1.

Based on its review of the Report and being otherwise sufficiently advised, the Commission finds that prima facie evidence exists that Duke has failed to comply with KRS 278.042. We further find that a formal investigation into the incident that is the subject matter of the Report should be conducted and that this investigation should also

examine the adequacy, safety, and reasonableness of Duke's practices related to the construction, installation and repair of electric facilities.

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

- Duke shall submit to the Commission, within 20 days of the date of this
 Order, a written response to the allegations contained in the Report.
- 2. Duke shall appear on September 21, 2010 at 10:00 a.m., Eastern Daylight Time, in Hearing Room 1 of the Commission's offices at 211 Sower Boulevard in Frankfort, Kentucky, for the purpose of presenting evidence concerning the alleged violations of KRS 278.042 and of showing cause why it should not be subject to the penalties prescribed in KRS 278.990(1) for these alleged violations.
- 3. At the scheduled hearing in this matter, Duke shall also present evidence on the adequacy, safety, and reasonableness of its practices related to the construction, installation, and repair of electric facilities and whether such practices require revision.
 - 4. The September 21, 2010 hearing shall be recorded by videotape only.
 - 5. The Report in the Appendix is made a part of the record of this case.
- 6. Any requests for an informal conference with Commission Staff shall be set forth in writing and filed with the Commission within 20 days of the date of this Order.

By the Commission

ENTERED

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JUL 1 6 2010

KENTUCKY PUBLIC SERVICE COMMISSION

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APPENDIX

APPENDIX TO AN ORDER OF THE KENTUCKY PUBLIC SERVICE COMMISSION IN CASE NO. 2010-00248 DATED JUL 1 6 2010

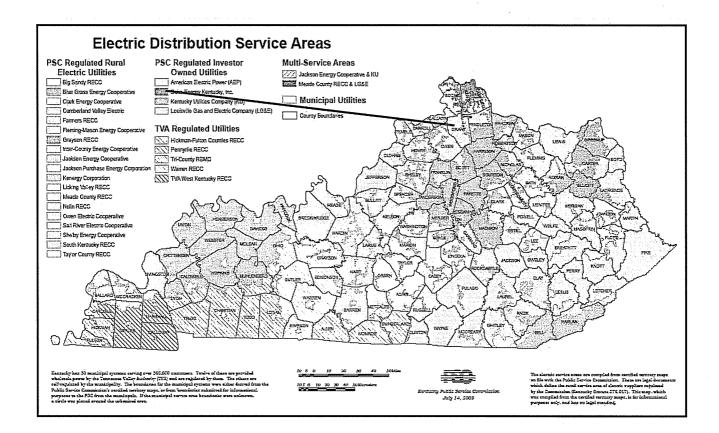


Commonwealth of Kentucky Public Service Commission 211 Sower Blvd. P.O. Box 615 Frankfort, Kentucky 40602-0615 Telephone: (502) 564-3940 psc.ky.gov



Incident Location ~ Showplace Landscaping, Crittenden, Kentucky

Report Date: March 24, 2010
Incident Date: July 27, 2009
PSC Investigator: Jeff Moore
Utility: Duke Energy Kentucky
Injured: Kenneth Tyler Cummins



| Utility: | Duke Energy Kentucky | | | | | | | | |
|--------------------|---|----------------|----------|--|--|--|--|--|--|
| Reported By: | William Cobb | | | | | | | | |
| Incident Occurred | 7/27/2009 | Approximately: | 5:30 PM | | | | | | |
| Utility Notified: | 7/27/2009 | Approximately: | 5:36 PM | | | | | | |
| PSC Notified: | 7/27/2009 | Approximately: | 6:01 PM | | | | | | |
| PSC Investigated: | 7/29/2009 | Approximately: | 10:00 AM | | | | | | |
| Incident Location: | Showplace Landscaping, Crittenden, Kentucky | | | | | | | | |

Incident Description:

On July 27, 2009 Public Service Commission (PSC) staff was notified of a public contact on Duke Energy Kentucky facilities. According to Duke Energy Kentucky, two employees working for Showplace Landscaping (Brandon Harris and Kenneth Tyler Cummins) were using a dump truck to unload mulch under Duke Energy Kentucky's 7,200 volt distribution line.

According to Mr. Harris's' statement (see witness statement in Attachment A), he was unloading the truck behind the topsoil bed. Mr. Cummins was operating a bobcat near the dump truck. He got off the bobcat and walked over to the truck and told Mr. Harris to pull up a bit. Mr. Harris began to pull up with the bed of the truck extended and heard cracking and popping. Mr. Harris said he jumped out of the truck because it was on fire, and then noticed Mr. Cummins lying on the ground. Mr. Harris then ran to the barn where Evan Chance was parking the tractor, and told him to call 911 because Mr. Cummins was injured.

According to Duke Energy Kentucky the emergency personnel arrived and found Mr. Cummins lying at the back of the dump truck. I was told by a Duke Energy Kentucky employee during the incident notification call that the equipment and body had been moved by the emergency personnel at the incident site before Duke Energy Kentucky personnel arrived. Since the equipment had been moved, I asked them to take photographs of the incident site, and measurements of the truck from the ground to the top of the bed with it fully extended, along with photographs and measurements of the supply conductor and neutral before and after repair. See Attachment A, Duke Energy Kentucky's seven-day report includes photograph DUKE-00099 showing the company measuring the truck bed fully extended. According to Duke Energy Kentucky, the measurement in photograph DUKE-00099 documents the truck bed at sixteen feet, six inches fully extended. In the DUKE-000031 photograph in Attachment A, and PSC photographs 27, 28, 29, and 30 in Attachment C show contact points on the top of the dump truck bed. Sections of the damaged conductor that made contact with the dump truck bed shown in Attachment A, photograph DUKE-00105, were removed while making repairs to the supply and neutral conductor.

While reviewing seven-day report on Monday, November 9, 2009, it was discovered that part of Duke Energy Kentucky's report was missing. The company was notified, the documents were found, and sent to the Commission. The missing documents for Duke Energy Kentucky's seven-day report were received on November 20, 2009. The documentation missing was photographs DUKE-00093 through 00105 showing the measurements taken at the incident site. Photograph DUKE-00101 in

Attachment A shows the ground clearance of the west supply conductor at seventeen feet, six inches after repairs. This is still a probable violation of the NESC, section 20, table 232-1.

After receiving the documents in Attachment A (date stamped November 20, 2009) showing the conductors height at seventeen feet, six inches after the repairs had been made, it was discovered that Duke Energy Kentucky facilities at the incident site had been changed, new structures installed, and the conductor height changed. I contacted Duke Energy Kentucky and asked if they would like to amend the seven-day report showing the height of the conductors after the changes mentioned above. They sent an amended document for Duke Energy Kentucky's seven-day report on January 14, 2010 documenting changes made to the facilities at the incident site. The photograph in Attachment A, DUKE-00112 shows the supply conductor at thirty two feet, six inches, compared to photograph DUKE-00101 which shows the supply conductor at seventeen feet, six inches.

With the dump truck bed measuring sixteen feet, six inches, and both the top of the bed and conductors showing contact points, the supply conductor must have been less than sixteen feet, six inches when the bed of the dump truck made contact. This is a probable violation of the National Electric Safety Code (NESC).

See Attachment B; NESC, Section 23, 232, B, 1, Table 232-1.

| | Name | | | Address | Employer | | |
|-------------------|----------------------|--------------------------------------|-------|---------------------------------------|-----------------------|--|--|
| | Kenneth T | yler Cumr | nins | 5025 Lemon | | | |
| Victim: | Fatality | Age 23 | | Northcutt Rd Dry Ridge, KY | Showplace Landscaping | | |
| | Yes | | | Dry Nage, N | · | | |
| | Injury: | Electroc | ution | | | | |
| | Nan | Name Brandon Harris See Attachment A | | Address | Employer | | |
| Witnesses: | | | | 260 North Fork Rd Crittenden, KY | Showplace Landscaping | | |
| | Evan Cl See Attac | | 2 | 2819 Dry Ridge Ct. Villa Hills, KY | Showplace Landscaping | | |
| Information From: | Nan | ne · | | Position | Employer | | |
| | Jeff Di | Jeff Dierker William Cobb | | Manager | Duke Energy Kentucky | | |
| | William | | | EHS | Duke Energy Kentucky | | |
| | Gary I | _ynn | | EHS | Duke Energy Kentucky | | |

Probable Violation: 1

KRS 278.042 Service Adequacy and Safety Standards

NESC Section 23: Clearances

232. Vertical Clearances of Wires, Conductors, Cables, and Equipment Above Ground, Roadway, Rail, or Water Surfaces

B. Clearance of wires, conductors, cables, equipment, and support arms mounted on supporting structures

1. Clearance to wires, conductors, and cables

The vertical clearance of wires, conductors, and cables above ground in generally accessible places, roadway, rail, or water surfaces, shall be not less than that shown in <u>Table 232-1</u>.

| Utility Investigator | Jeff Moore | PSC Engineering Staff Electric Branch |
|----------------------|--------------|--|
| Signed: | affin Comore | Date: 3/24/2010 |
| Manager | John Shupp | PSC Engineering Staff Electric Branch |
| Signed: | Jeh V. Slag | Date: 3/24/10 |

Attachments:

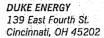
A. Utility Incident Report (Seven Day Report)

B. Cited Violations (NESC)

C. PSC Photographs

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Utility Incident Report (Seven Day Report)





VIA TELEFAX (502) 564-1582 AND ORDINARY MAIL

August 7, 2009

Mr. Jeffrey C. Moore Electric Utility Investigator Division of Engineering Commonwealth of Kentucky Public Service Commission 211 Sower Boulevard P.O. Box 615 Frankfort, Kentucky 40602-0615 AUG 1 4 ZU09

PUBLIC SERVICE COMMISSION

Re:

Electrical Contact – Hwy. 25 (Crittenden, Kentucky) Crittenden Substation 124 conductor clearance

Dear Mr. Moore:

We contacted you on July 27, 2009 at 7:38 p.m. to inform you of an electrical contact which involved two employees from Showplace Landscaping located in Crittenden, Kentucky where one employee was fatally injured. On July 29, 2009 at 10:00 a.m. Gary Lynn and William Cobb, Duke Energy EHS Professionals, met you at the accident site. At the time of our investigation starting on July 27, 2009 the deceased worker, dump truck and bobcat had already been moved from the accident site at the request of Grant County officials.

Our preliminary inquiries determined that Grant County deputies were called to Showplace Landscaping just after 5:30 p.m. to find Kenneth Tyler Cummins dead at the scene. Grant County investigators said Kenneth Tyler Cummins was helping other employees unload a dump truck bed that was parked under high voltage power lines with the bed fully raised. When the truck moved forward, the bed made contact with the power lines. The dump truck became energized causing an electrocution to the employee who had made contact with the dump truck.

At your request, Duke Energy agreed to provide you with information which includes documentation from the Grant County Sheriff Department and Coroner's office. As of today, we have only received information from the Grant County Sheriff Department. The Grant County Coroner's office has not released any information to us at this time. On the matter of additional information, we will provide you with the following documentation that we have available today.

- 1. Copy of Grant County Sheriff Department report.
- 2. Photographs of damaged wire (included in PowerPoint).
- 3. Height measurements on the repaired line (included in PowerPoint).
- 4. Height measurements prior to incident (included in PowerPoint).
- 5. Outage report for the incident on July 27, 2009.

The following information listed below will be mailed to you under separate cover.

- 1. All utility and sheriff department photographs will be included in the mail out packet.
- 2. System inspection records on the facilities per your request.
- 3. Maintenance records on the breaker at Crittenden Substation 124.
- 4. Any recent work performed on the system within the last 2-years.
- 5. Span length dimensions.
- 6. Original installation records and any modifications which are currently available.

Installation drawings and prints will be released after confidential treatment has been obtained.

We are stilling looking through our records for additional installation records in regards to the 7.2kV line for pole numbers 10G-85E and 10G-86E.

In addition, you notified us of potential clearance violations involving the height requirements on a 7.2kV phase conductor (west line) located along U.S. 25 easement located between pole numbers 10G-85E and 10G-86E, and 5G-345E and 5G346E crossing Route 2942.

If you have any questions or concerns, please do not hesitate to contact me at (513) 287-1234.

Sincerely,

effery T. Dierker

Duke Energy Manager EHS Field Support

Click here to print

Duke Energy Ohio/Kentucky South Area Florence (932) District

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| Job Start: | 07/27/09 17:36:00 D | Dispatched : | 07/27/09 18:01 | :52 Job Complete: | 07/27/09 22:03:34 |
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Click Here to see a list of customers that called in for this outage

KYIBRS REPORT

KSP RECORDS

COMMONWEALTH OF KENTUCKY

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KYIBRS REPORT

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| 旧 | CITY | <i>/</i> : | | ······ | , , , , , , , , , , , , , , , , , , , | | STA | TE: | | ZIP (| CODE: | | | | ļ | | | | | | |
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| ATA | | | NORTH FO | | | ······ | | | | | | | | | | | | | | | DATE OF BIRTH |
| DA | CIT | | | - N. N.D | | | | | STA | ATE: | KY | 711 | P COI | ĎF• | 410 | 30 | SSN. | | | - | 09/02/1986 |
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| Ž | 2 | ···· | | ICE, EVAN | 86 | | | | | | | | | | | | | | | 1, | 859) 468-3102 |
| WITNESSD | 400 | ····· | 9 DRY RID | | 171 | | | A | | | | | | | | | | | | + | DATE OF BIRTH |
| 1 | | | | GECI | | | | | | | | | | | | | т | | | - | |
| | CITY: VILLA HILLS STATE: KY ZIP CODE: 41017 SSN: | | | | | | | | | 05/01/1990 | | | | | | | | | | | |

KYIBRS REPORT: UOR2 SUPPLEMENT

KSP RECORDS

COMMONWEALTH OF KENTUCKY

SYNOPSIS:

On 07/27/2009 at 1737 hours. I responded to Show Place Landscaping in reference to a male subject being trapped under a vehicle with high voltage power lines down around him.

MODUS OPERANDI:

DATE & TIME OF OCCURRENCE: 07/27/2009 at 1737 hours

ACCUSED:

SUSPECTS:

STOLEN PROPERTY:

OTHER PROPERTY:

EVIDENCE & HOW MARKED:

Took numerous pictures along with the Coroner's Office.

EVIDENCE DISPOSITION:

INVESTIGATION:

When I arrived on scene I noticed two sets of power lines down. A male subject, Kenneth Tyler Cummins, was laying next to the dump bed truck. He was not moving and his body looked burnt.

I spoke to a co-worker that was with Kenneth at the time this incident took place. The co-worker, Brandon Harris, stated they were dumping some dirt and mulch in the upper lot. Tyler was operating the bobcat and Brandon was operating the truck. As soon as the bed was empty Tyler got off the bobcat and advised Brandon to pull forward. The dump bed was still in the up right position as Brandon was pulling forward. The bed hit the two power lines and caused them to arc off the truck.

At that time Tyler was standing behind the truck. Myself and Coroner Marylee Willoughby believe he tried to move out of the way towards the left when he tripped and fell hitting his shoulder on the tail gate. The vehicle had electricity flowing throughout the truck. We also believe there is a scar mark on the tail gate where he hit.

I also spoke to Evan Chance who was also working with them that day. He stated he was putting the tractor away in the barn when he noticed a bright flash and that's when Brandon came running around the corner stating Tyler was hurt.

After the power was cut off I retrieved Evan's lunch box and returned it to him. I also took out Brandon's lunch box and cell phone. After looking inside Brandon's lunch box I located a marijuana pipe in the bottom pocket. The pipe had what appeared to be marijuana residue in it.

I asked both co-workers if they had smoked any illegal narcotics today. Evan stated yes, but not in the last couple days. Evan agreed to go to St. Elizabeth Hospital and take a drug test for Paul Fox, the owner of the business. Brandon however stated he smoked marijuana that night and refused to take a drug test. He stated what was the point, he would fail anyway. At the time of the incident he didn't appear to be under the influence of anything.

STATUS OF CASE:

This case is still under investigation.

Page 3 of 4 Incident Number: 6S0900229 Agency ORI: 0410000 Badge #: 921

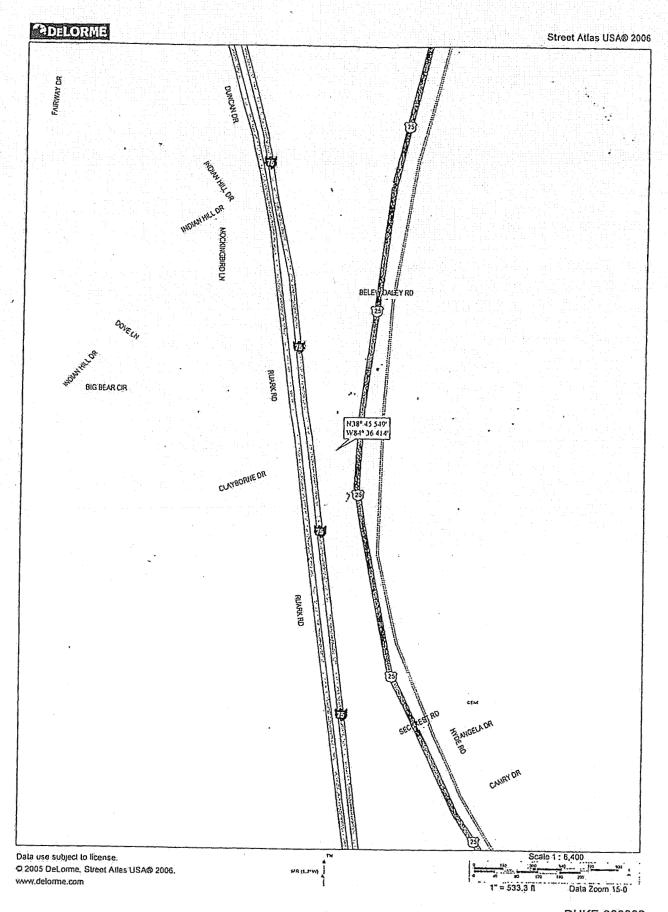
KYIBRS REPORT: UOR2 SUPPLEMENT

KSP RECORDS

COMMONWEALTH OF KENTUCKY

ATTACHMENT

DUKE-000005



PAGE KSP POST 6 / E-911 07/27/2009 USER DACIA 21:31:35 Call Number Detail CAD Incident: 2009-00019431 ESN : 0650 R Address : 2945 DIXIE HWY Caller Address: DIXIE HWY Phone : XXXXXXX-XXXX Law : KSP POST 6 Fire : CRITTENDEN Name EMS : TRANSCARE Community: CRITTENDEN Rescue: WILLIAMS Jurisdetn: Disp : 98 Intersect: AKA US 25 Source: N9C Child :N Special Needs:N Hangup:N Wea:N SubDivisn: CAD Incident Call Times: DEATH Incoming Call: 07/27/2009 17:37:18 Call Created: 07/27/2009 17:37:18 Created By: DACIAWOOD Pos:002 TERM 2 Call Send Time : 17:40:22
Call Dispatch Time: 17:38:44
Call Enroute Time: 17:38:59
Call Arrival Time: 17:40:28
Call Clear Time : 21:11:00 Sent By : DACIAWOOD Action: Event : DEATH 1 Language: Law : DEATH Fire : DEATH EMS : DEATH Call Closed :07/27/2009 21:11:00 Rescue: والمناب والمناور والم Original Dispatch Remarks: MALE TRAPPED UNDER BACCO AND IN ELECTRIC WIRES Narratives Narrative By: BLEMOX 07/27/2009 17:50 duke is sending units eta. 30. to 40 minutes Narrative By: BLEMOX 07/27/2009 19:38 NEXT OF KIN HAS NOT BEEN CONTACTED Narrative By: DACIAWOOD 07/27/2009 21:10 Vehicle Information TINU DEPT STATUS/DSP/CASE LOCATION/REMARK USER DATE 0000000731 CRF F33 DSP DACIA 07/27 17:38:44

0000000847

0000000732

E23 DSP

E23 ENR

LOI ENR

F33 ENR

TRA

1101

315

F201

DACIA 07/27 17:38:44

DACIA 07/27 17:38:59

DACIA 07/27 17:39:54

DACIA 07/27 17:40:19

07/27/2009 21:31:35

KSP POST 6 / E-911 Call Number Detail

PAGE 2 USER DACIA

| S921 L25 1097 UNIT DEPT STATUS/DSP/CASE LOCATION/REMARK | | | 17:40:28 TIME |
|--|-------|-------|------------------|
| S921 L25 1097 | BLEMO | 07/27 | 17:40:28 |
| F201 F33 1097 | DACIA | 07/27 | 17:40:41 |
| 156 LOI ENR CONTROL OF THE CONTROL O | DACIA | 07/27 | 17:41:23 |
| S921 L25 1098 The First Late of the state of the late | BLEMO | 07/27 | 17:41:51 |
| F202 F33 ENR 0000000733 | DACIA | 07/27 | 17:41:52 |
| \$921 - L25 1097 | BLEMO | 07/27 | 17:42:02 |
| 156 L01 1097 | DACIA | 07/27 | 17:44:23 |
| 315 L01 1097 | DACIA | 07/27 | 17:44:25 |
| F202 F33 1097 | DACIA | 07/27 | 17:44:35 |
| GCC1 L25 ENR | DACIA | 07/27 | 17:51:47 |
| F201 F33 LOG DUKE ENERGY ON SCEN | DACIA | 07/27 | 18:21:30 |
| 315 LOI LOG DUKE ON HAS ARRIVED | BLEMO | 07/27 | 18:30:46 |
| 315 L01 1098 | DACIA | 07/27 | 18:50:09 |
| 156 LOI LOG DUKE LEFT AND DID NOTHING | BLEMO | 07/27 | 18:56:09 |
| 156 L01 1098 | BLEMO | 07/27 | 19:36:59 |
| GCC1 L25 1097 | DACIA | 07/27 | 19:37:58 |
| 1101 E23 1098 | DACIA | 07/27 | 19:40:32 |
| F201 F33 1098 | DACIA | 07/27 | 20:20:45 |
| S921 L25 1098 | RWYNN | 07/27 | 20:41:37 |
| GCC1 L25 1098 | RWYNN | 07/27 | 20:49:16 |
| F202 F33 1098 | DACIA | 07/27 | 21:10:59 |

| IAME OF WITNESS: <u>Evan Chance</u> DOB: <u>5/1/9.0</u> |
|---|
| DORESS: 28/9 Dry Ridge Ct ville HISS by PHONE: 459 468 3/12 |
| ATE & TIME: July 27 2009 6:36 pm LOCATION: Showe place lundsupe |
| ITERVIEWING OFFICER: |
| I was putting the tractor away in the pear of the barn when is and a large flash to my left then brandon came running by screening call all. I then spike to the dispatch lady and told her there had been an accident involving the dump hed truck and the power lines, brandon and I rush appropriate to the lover end in the pict up to inform |
| rusned down to the lover end in the pick up to inform July and then back to the scene of the accident 5 the police were arriving. |
| |
| |
| Ewant Chang |
| 7/21/09 |
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| |
| ·· UOR-5 |

9/84

| NAME OF WITNESS: BRANDON HARRIS | DOB: _9-2-1986 |
|---|---|
| DORESS: 260 North Fork Pr. Crithadan Ky | 4230E: 859-428-2877 |
| ATE & TIME: 6:36 pm 7-27-07 LOCATIO | ON: Shoupher Landslape |
| ITERVIEWING OFFICER: | |
| E Brandon was unloading thrusted Tyler was standing By Bobiat Tyler said pull up a Bit I a Bunch of cracking a popping if was on fire I saw tyle to I ran to Barn yelled at su Tyler was hurt then waited for | the Bed was lifted op. did & All I heard was T jumped out of truck Layin on ground ran to call 911 that |
| • | |
| | |
| | |
| Brandon Harris Ball Dho | |
| 7-27-09 | |
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| · | |
| | |
| | |
| | UOR- |

Wm. Coll Dr EHS 513 287 2525



GARY LYNN EH&S Professional EH&S Midwest Field Support

Duke Energy EX552 / 139 East Fourth St Cincionali, OH 45202

513-287-2587 www.duke-energy.com cell 513-312-2852 lax 513-287-3499

gary.lynn@duke-energy.com

Des Zernes Essere John Wight, sugs.



Duke Energy Business Services 139 East Fourth Street Cincinnali, OH 45202 Telephone: (513) 287-1234 Facsimile: (513) 287-3499

Jeffery T. Dierker Duke Energy Manager EHS Field Support E-mail; Jeff.Dierker@duke-energy.com

August 27, 2009

Jeffrey C. Moore
Electric Utility Investigator
Division of Engineering
Commonwealth of Kentucky
Public Service Commission
211 Sower Boulevard
P.O. Box 615
Frankfort, Kentucky 40602-0615

AECEIVED

AUG 3 I 2009

PUBLIC SERVICE

COMMISSION

RE: Electrical contact – Hwy 25 (Crittenden, Kentucky)
Crittenden Substation 124 conductor clearance

Dear Mr. Moore:

I am enclosing additional documents which you have requested in connection with your investigation in the above-referenced matter. This is to supplement the PowerPoint presentation previously forwarded to you, the Grant County Sherriff's report and the July 27, 2009 Duke Energy outage report that we faxed to you on August 7, 2009. Enclosed are:

- 1. Photographs of the site (Duke-000027 to Duke-000065)
- 2. System inspection records on the facilities (DUKE-000066 to DUKE-000086)
- 3. Maintenance record for the breaker at Crittenden Substation 124 (DUKE-00087)
- 4. Original installation records and any modifications for 7200v line (DUKE-00088 to DUKE-000092)

We have searched our records and there has been no recent work performed on the system within the last two years.

Please let me know if you require anything further. Thank you for your consideration.

Sincerely,

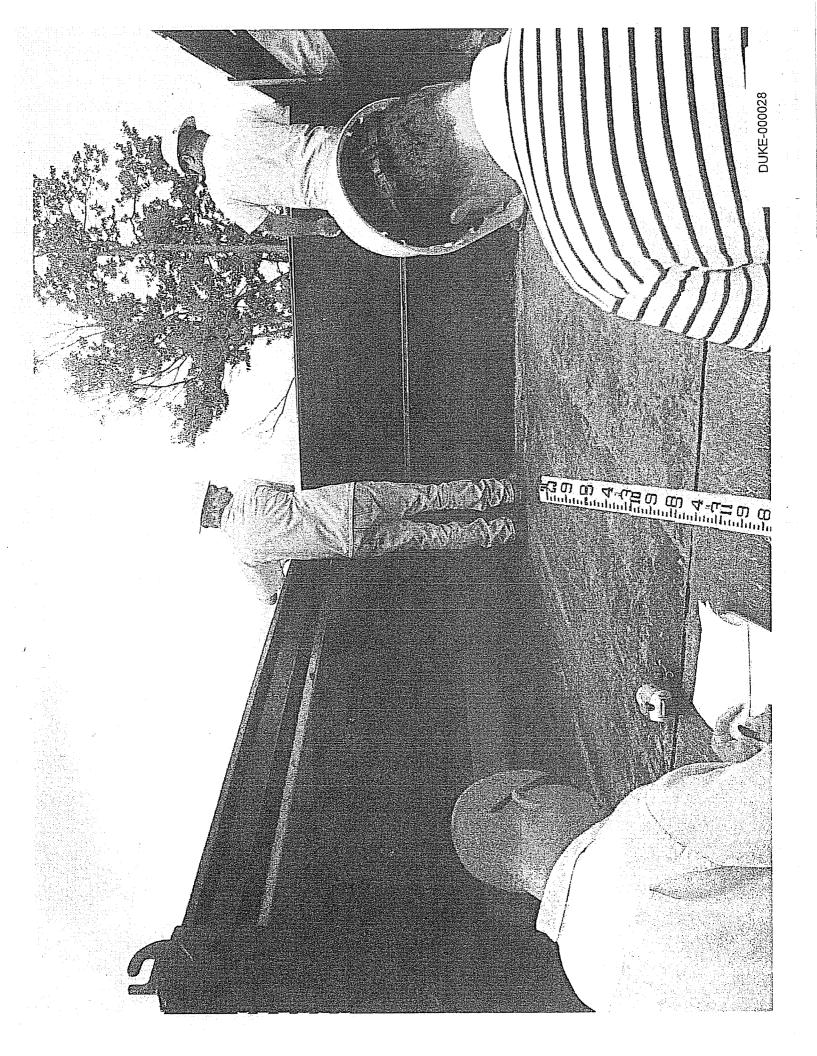
Jeffer T. Dierker

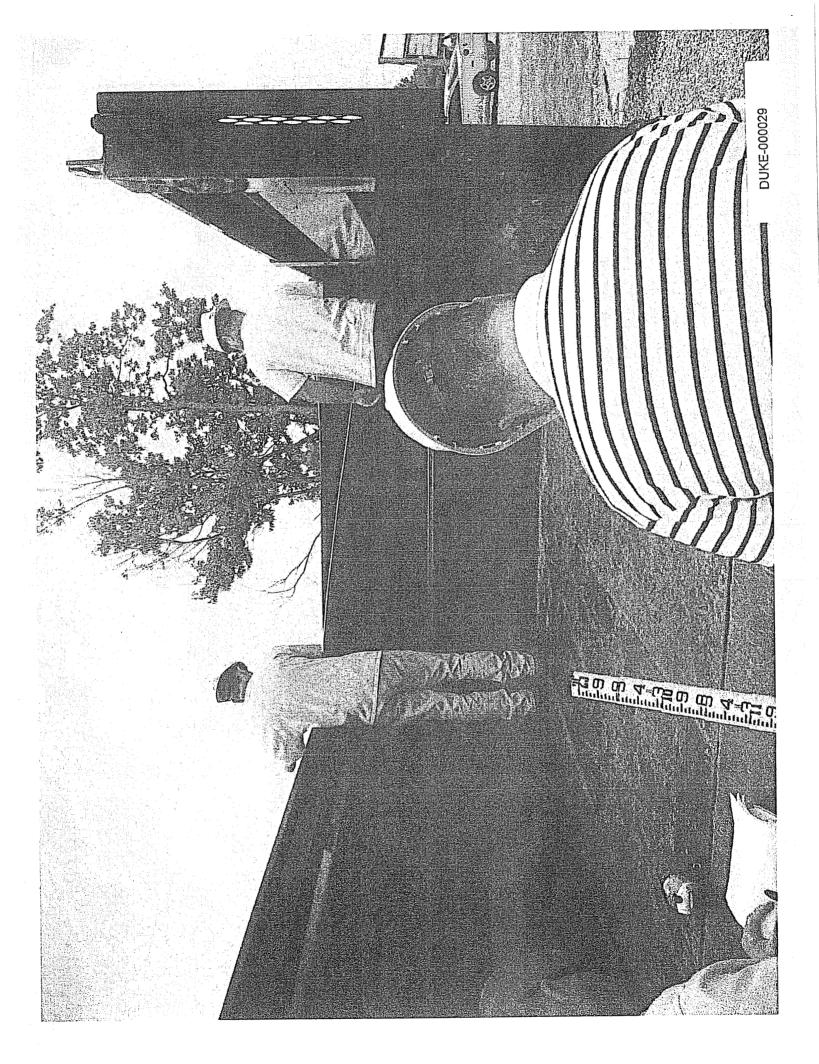
Duke Energy Manager EHS Field Support

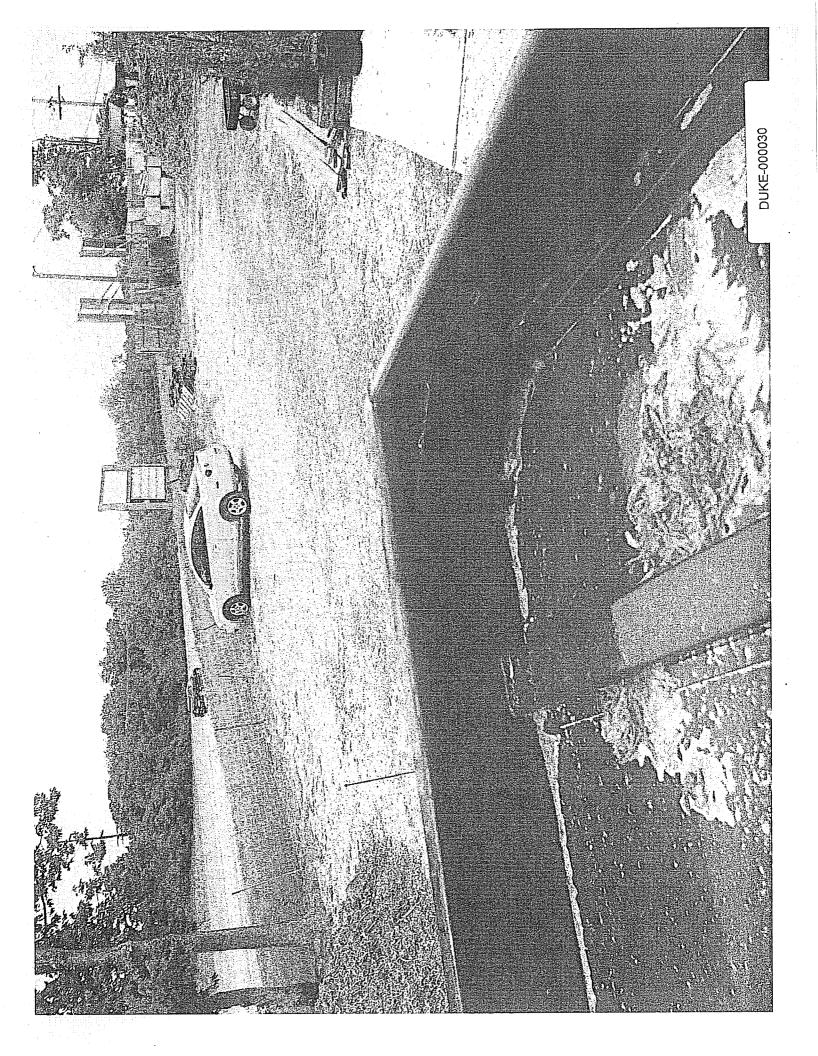
Enclosures

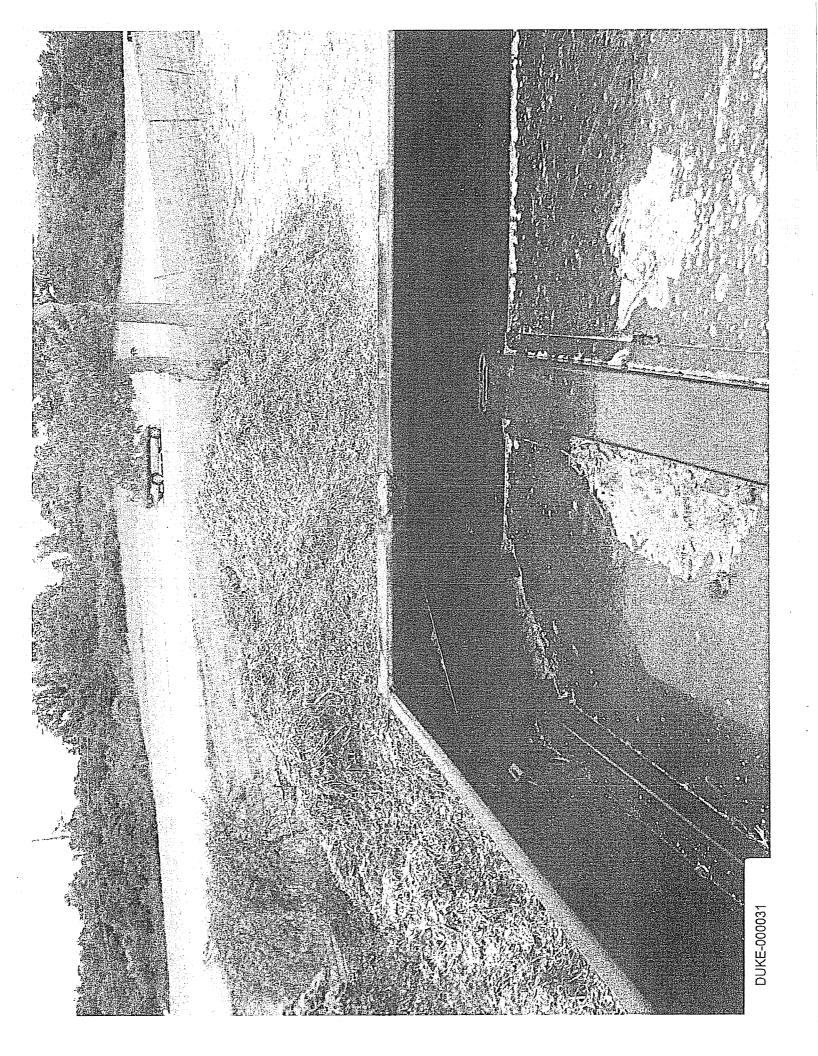
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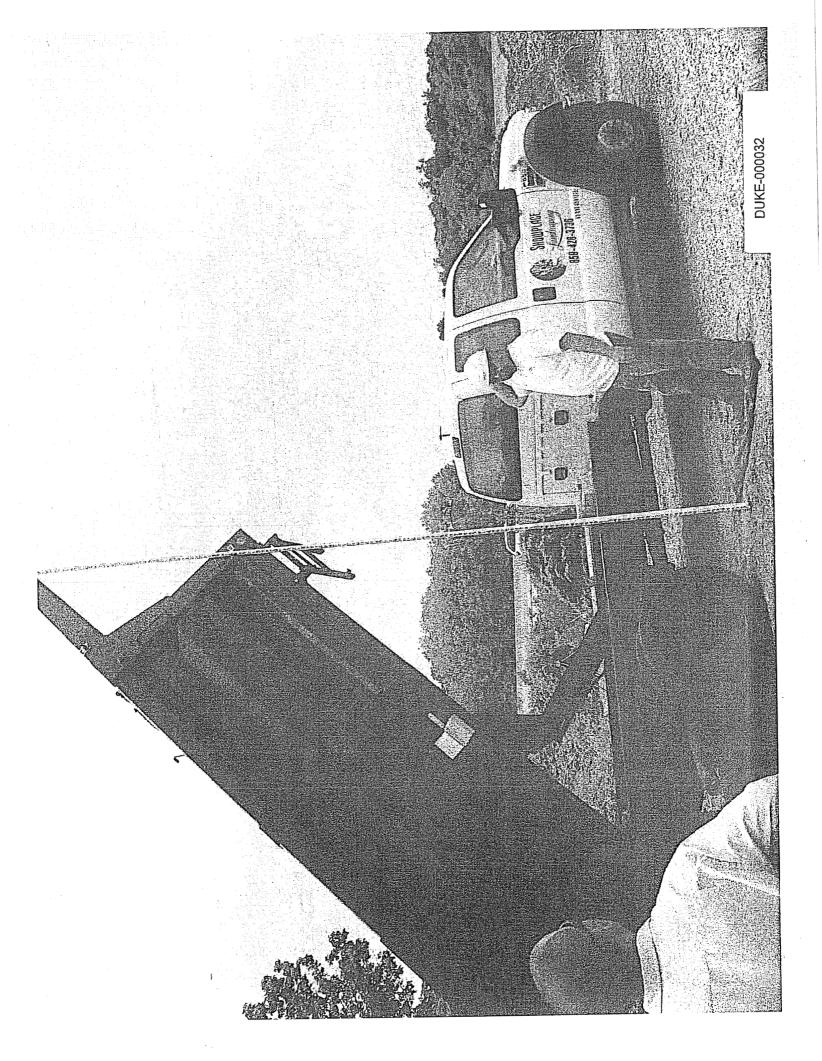


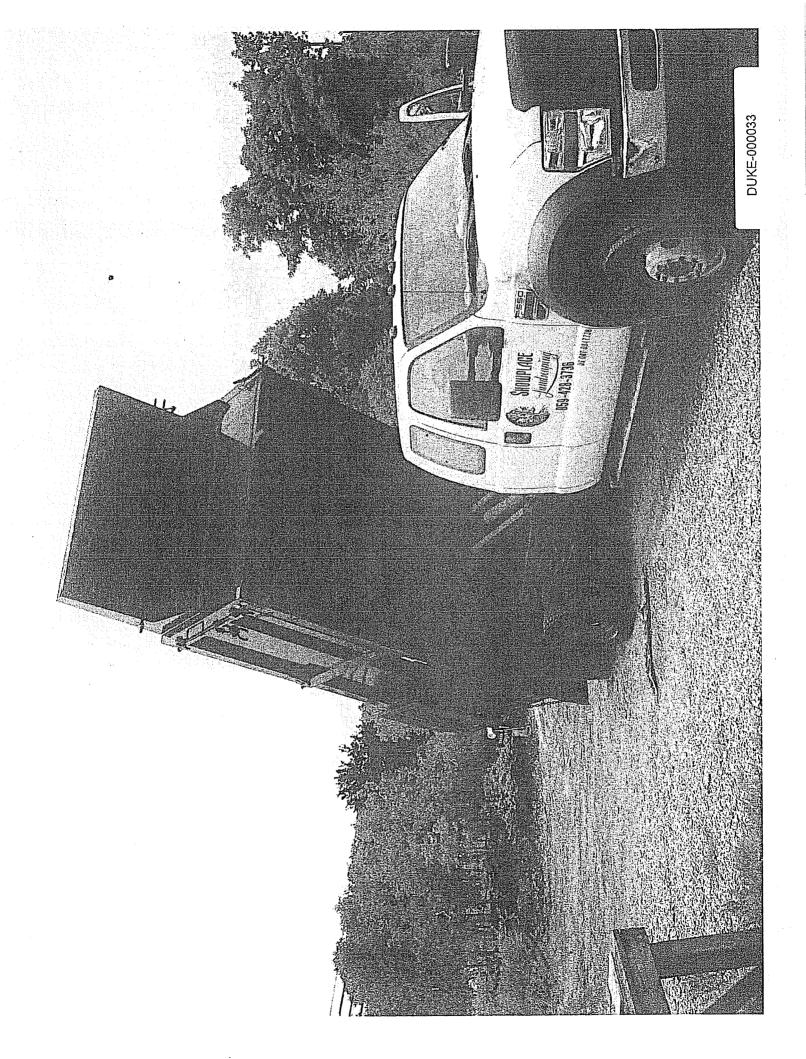


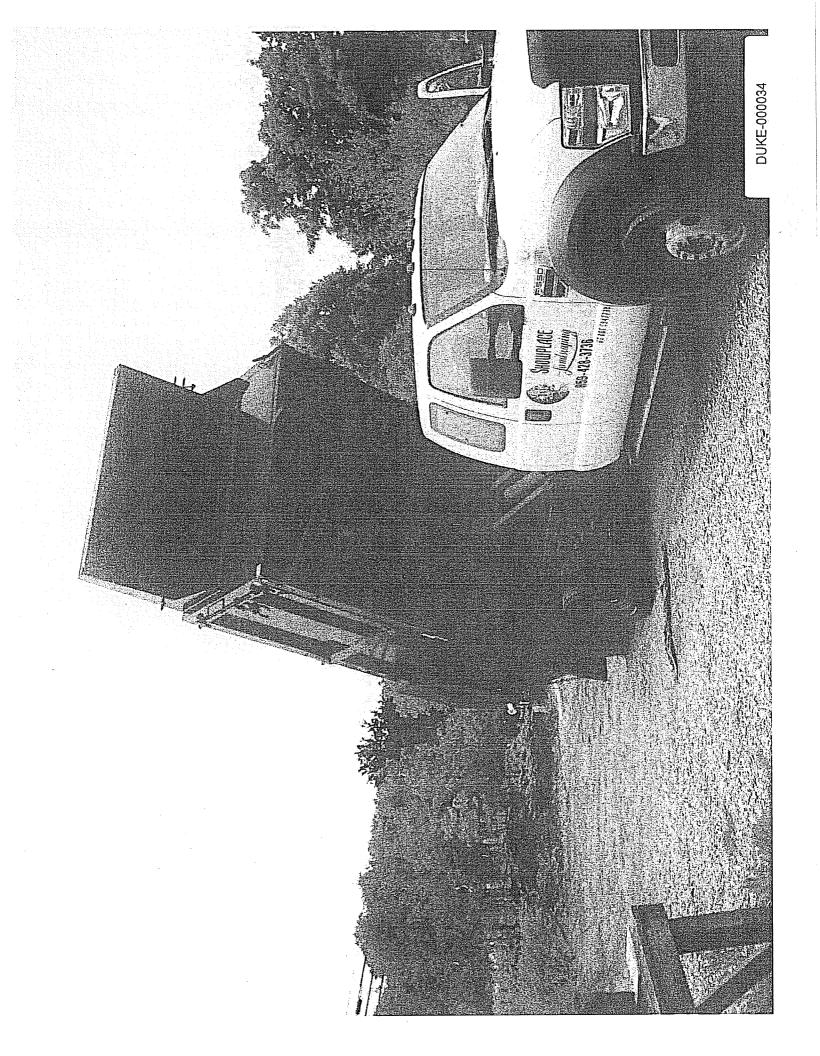


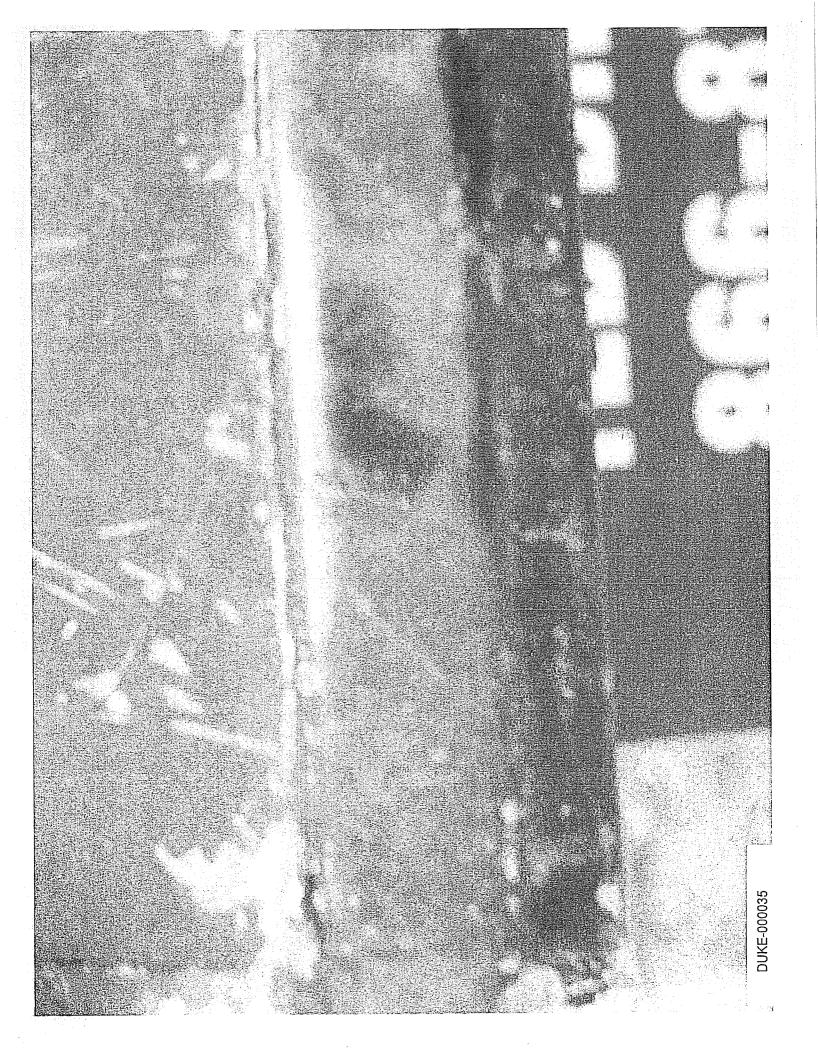


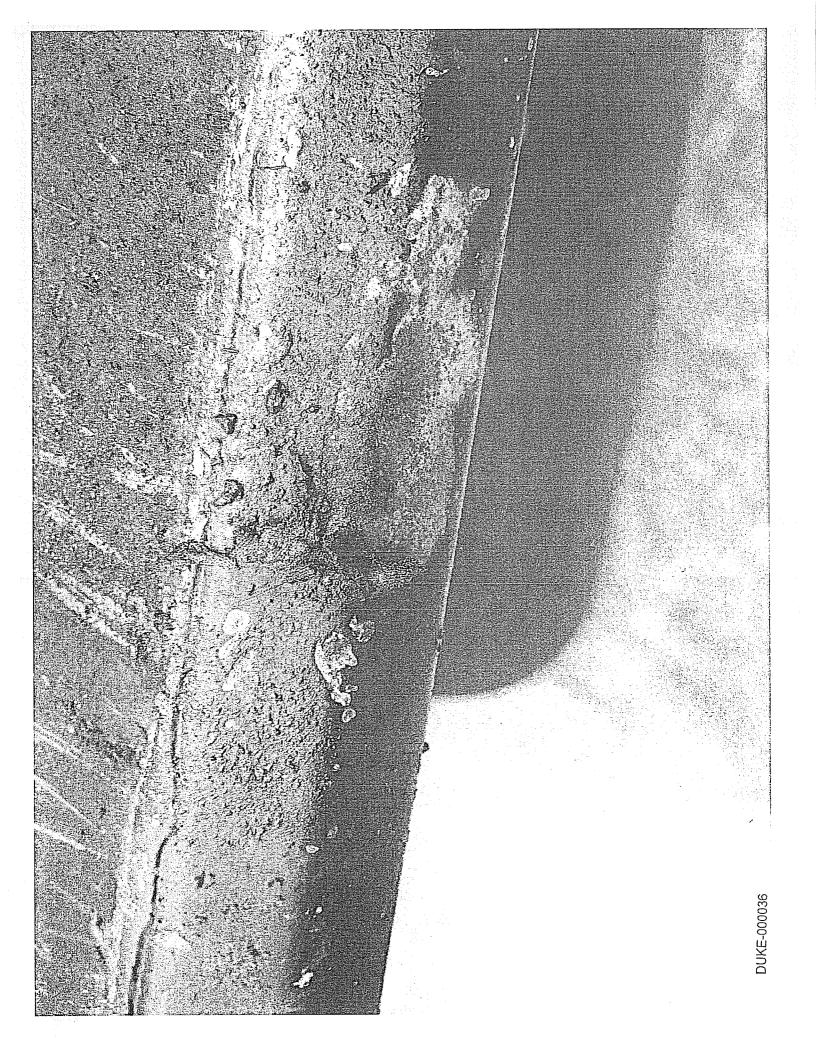








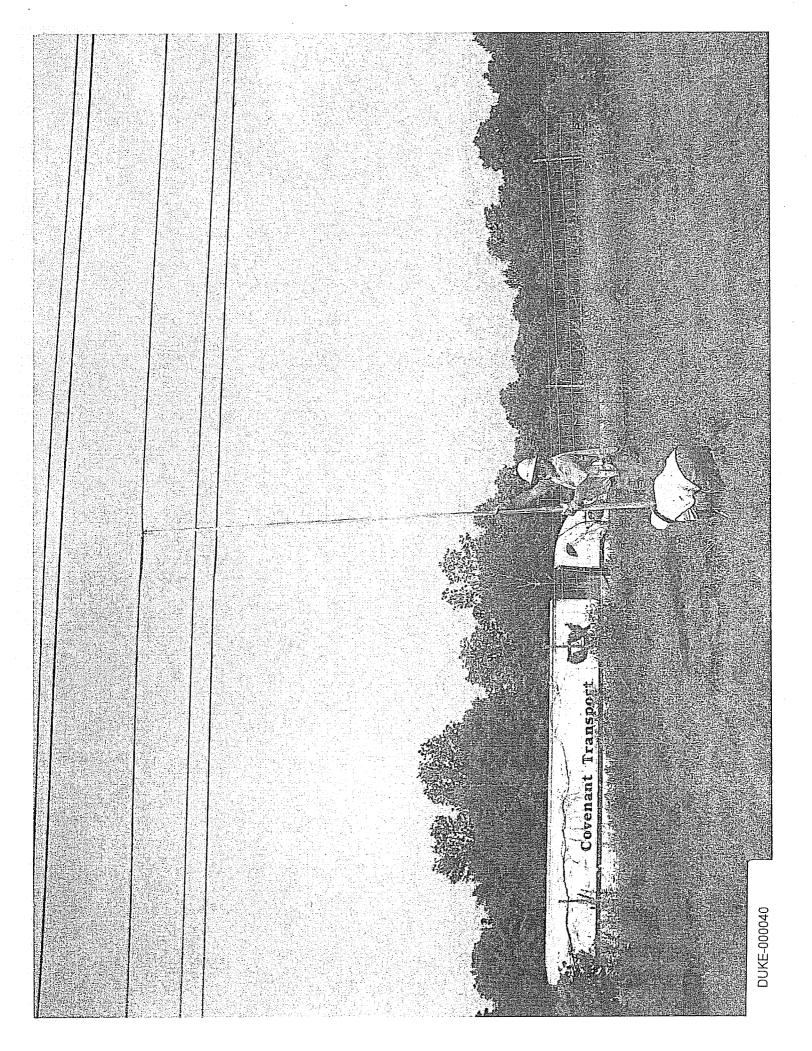


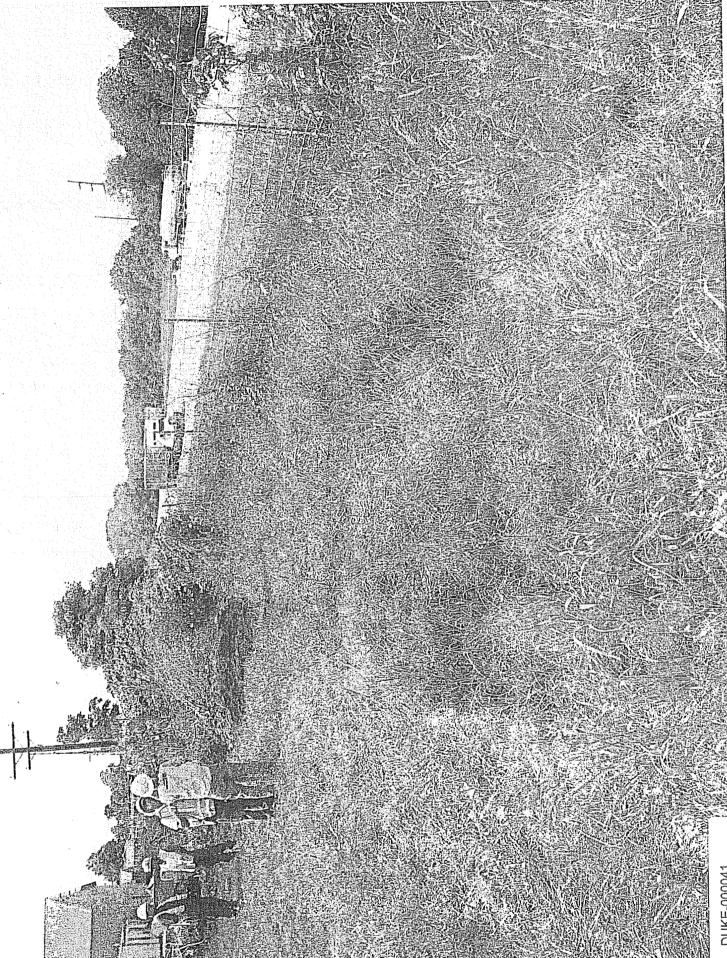


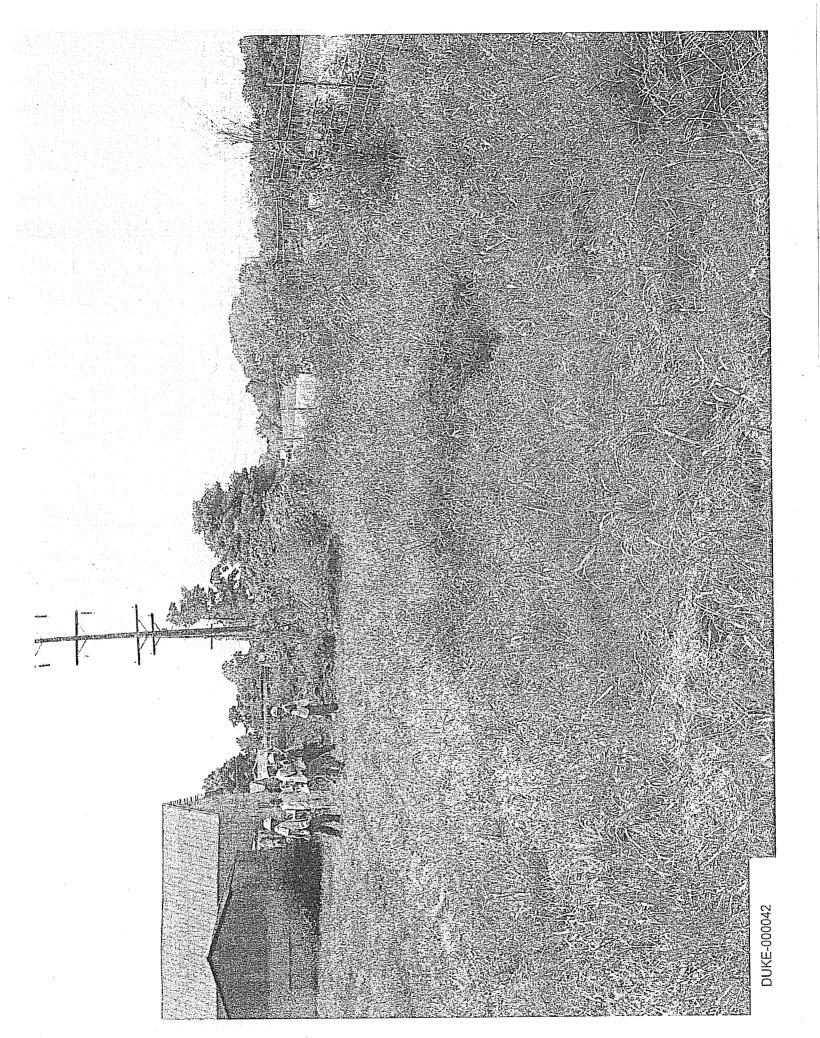


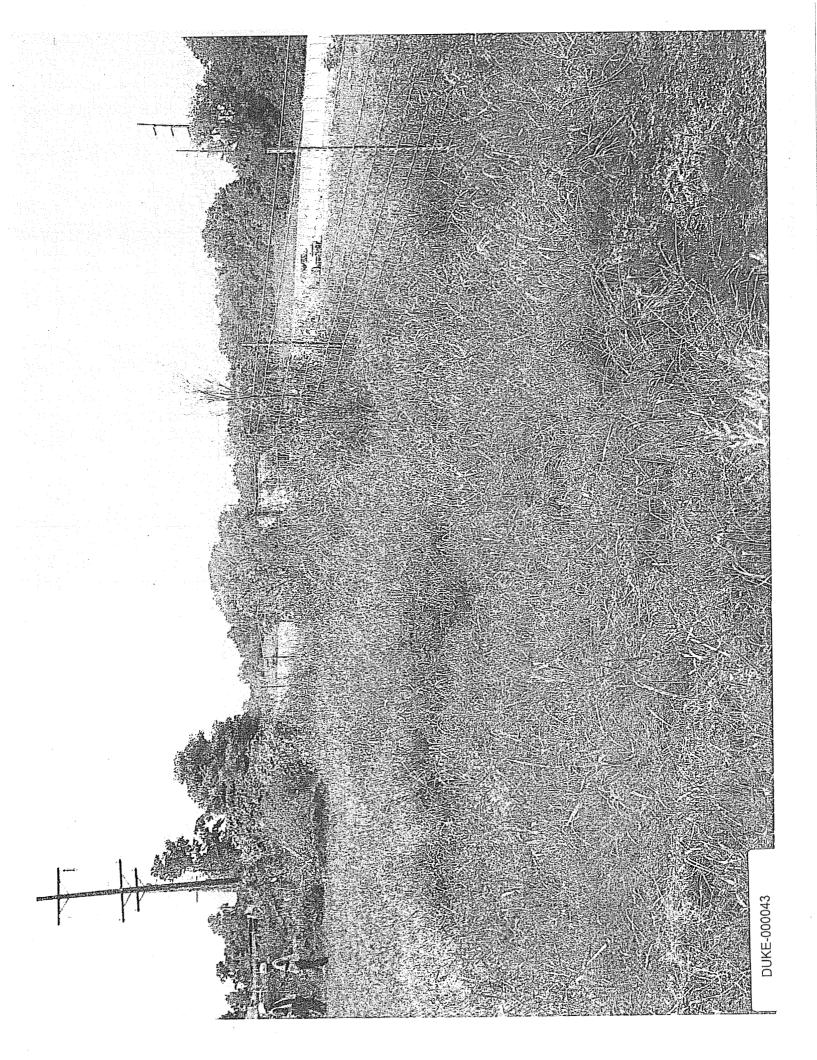


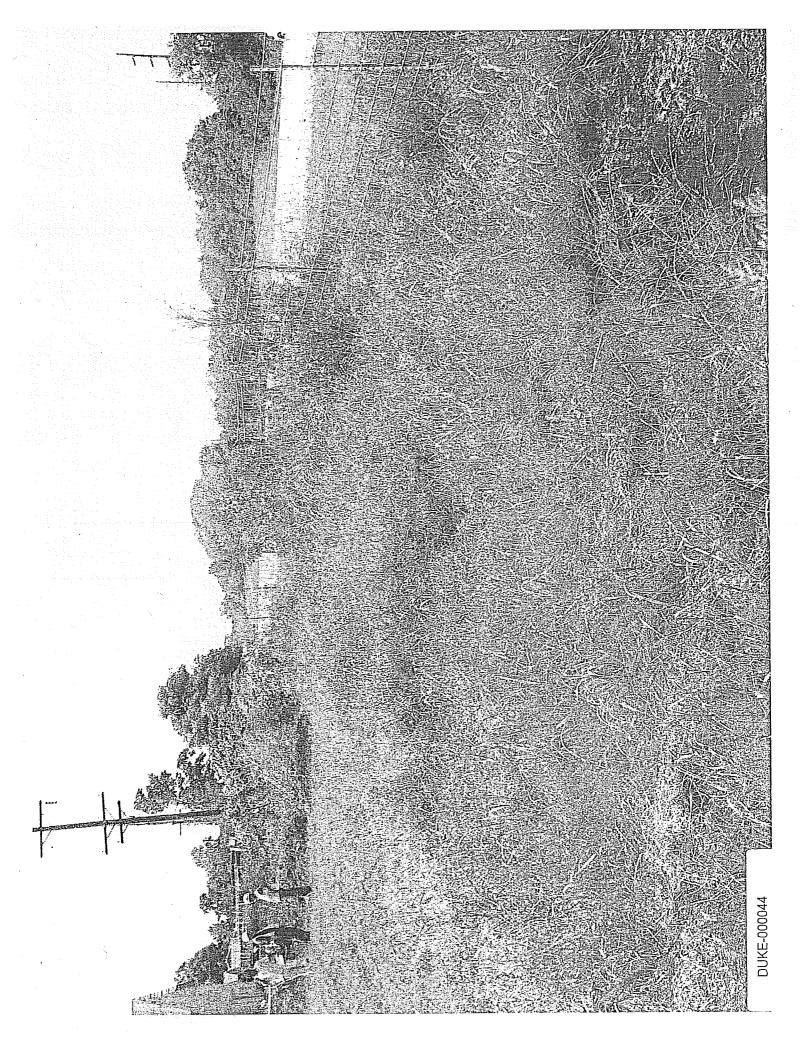


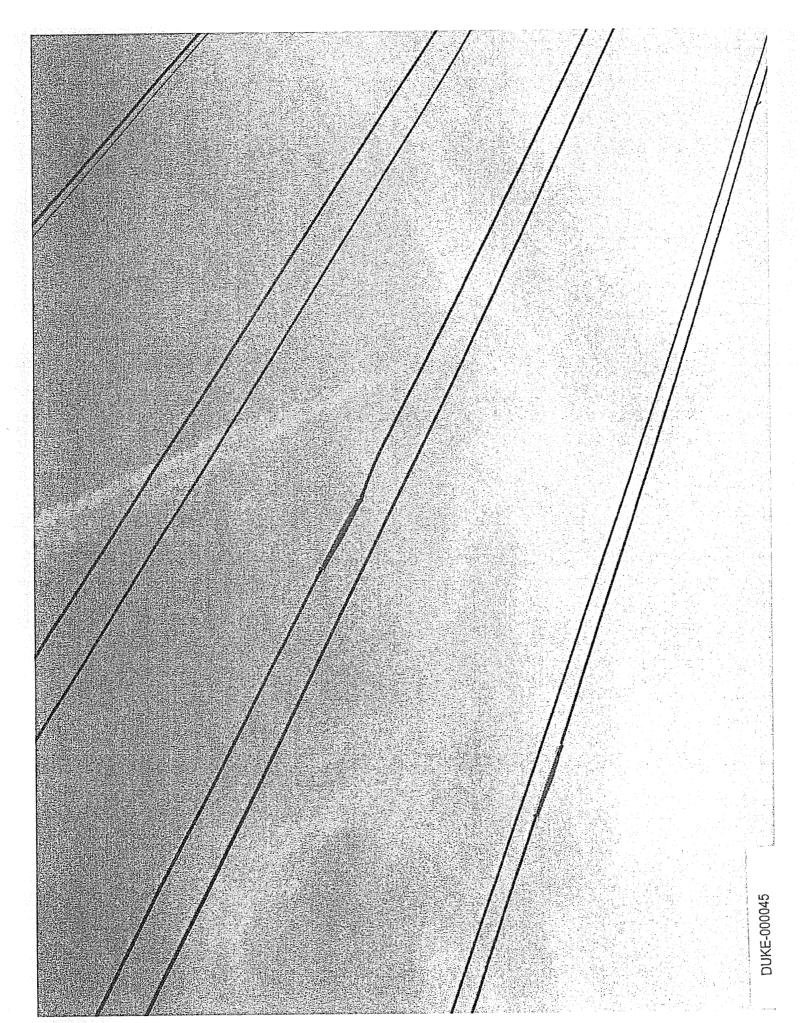


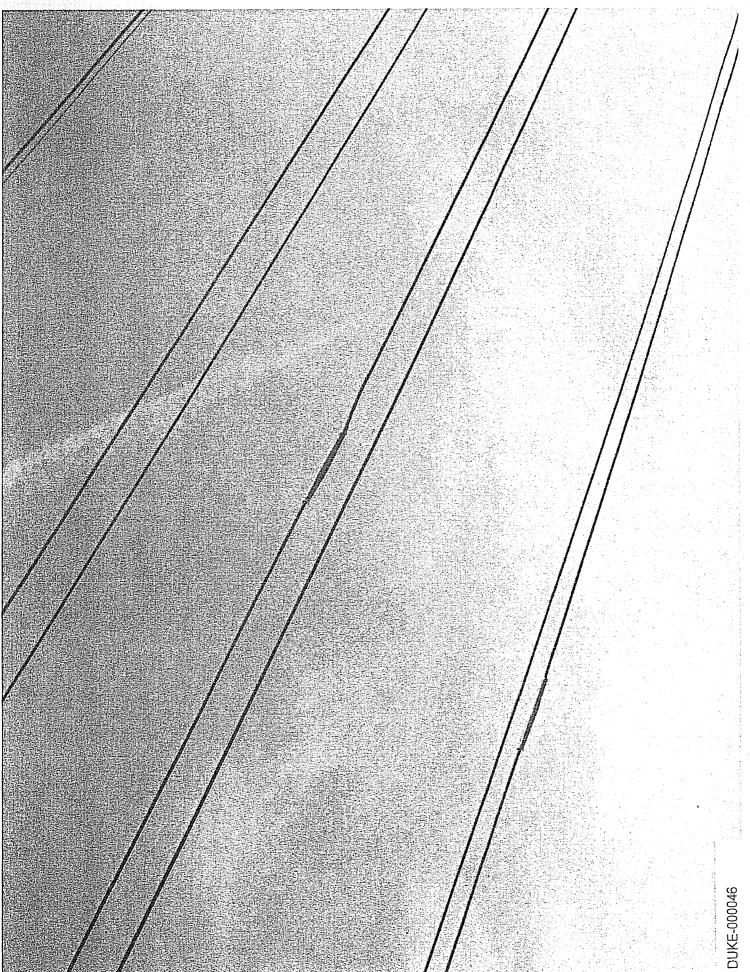








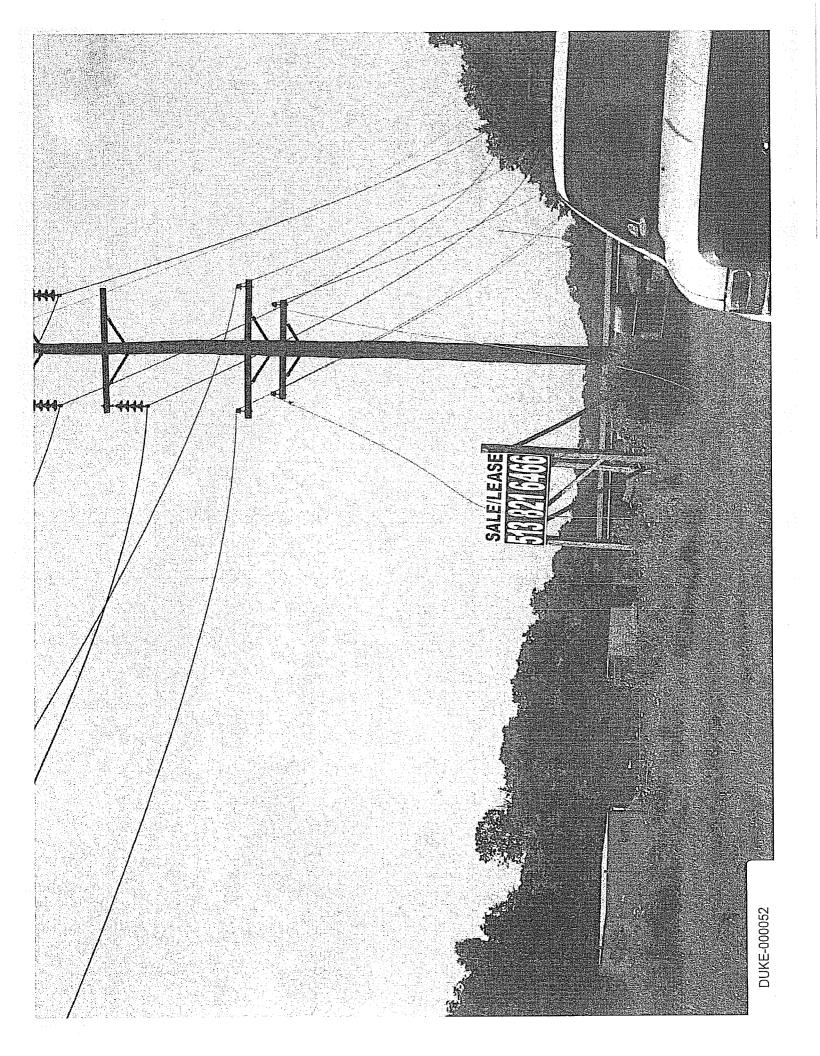


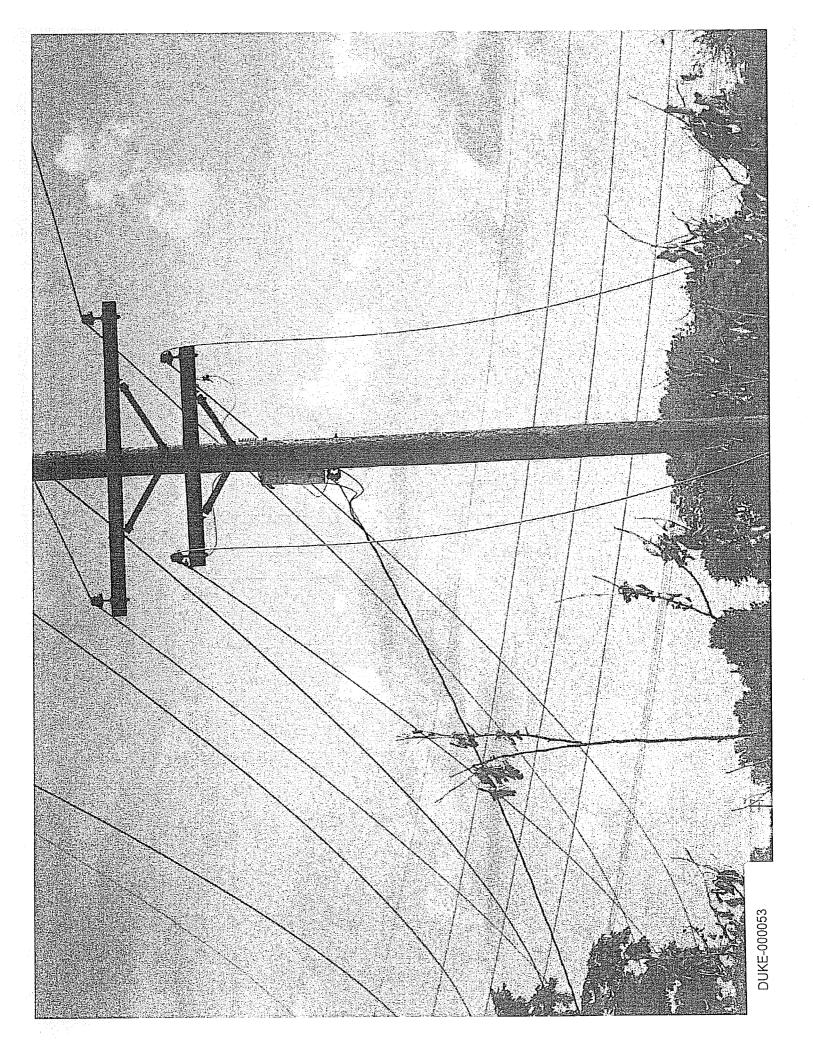


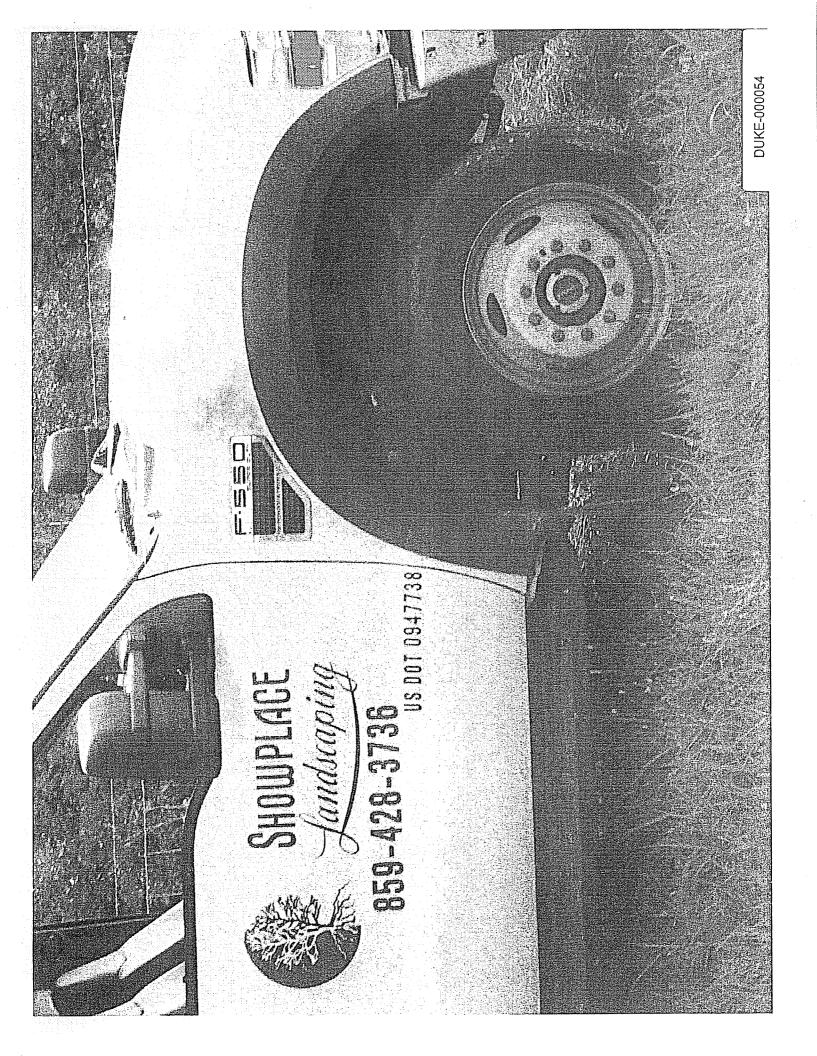


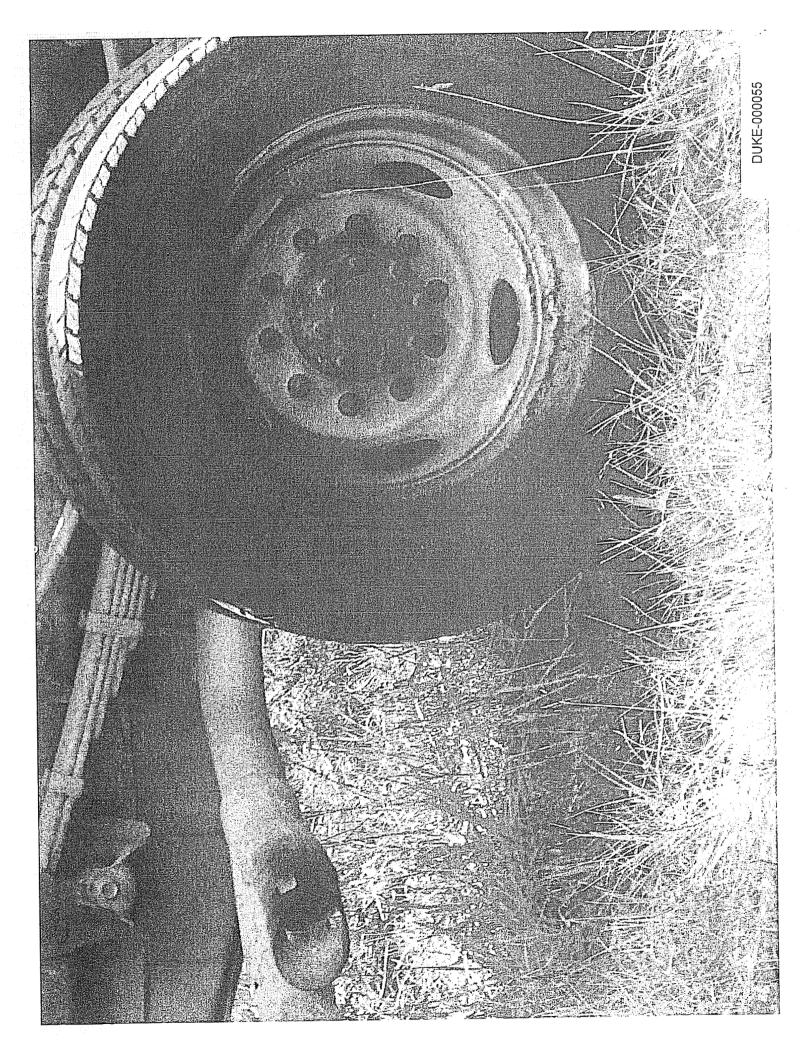




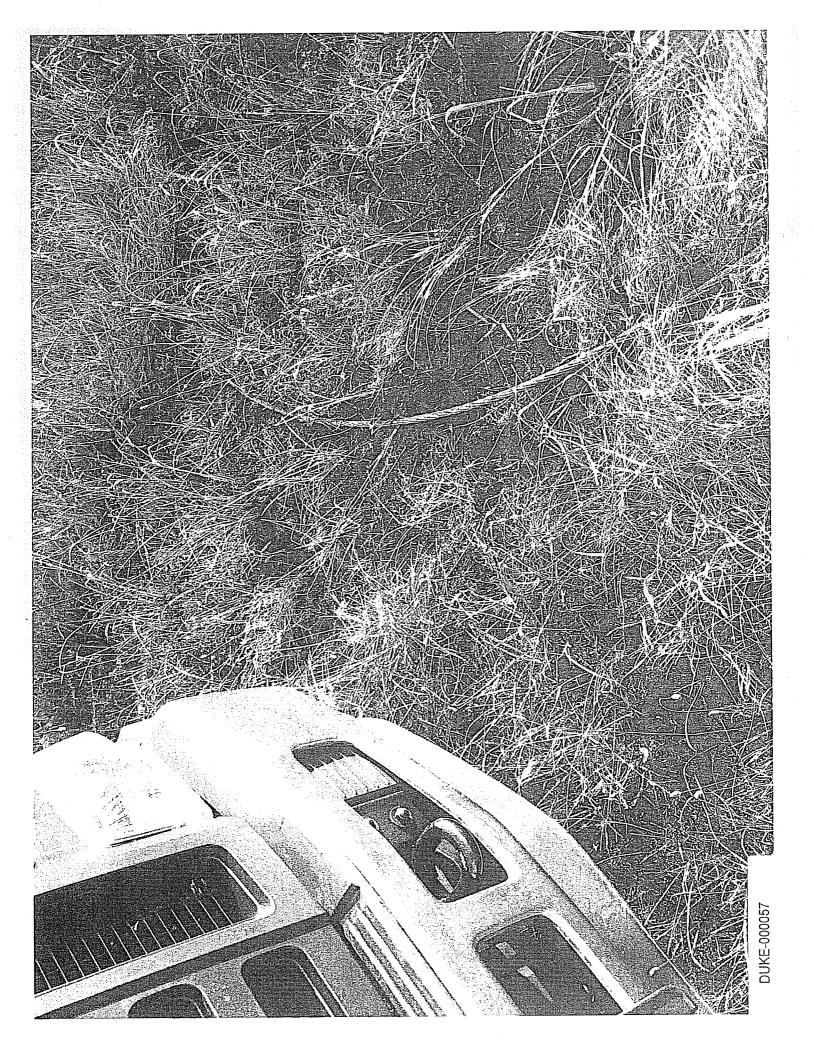


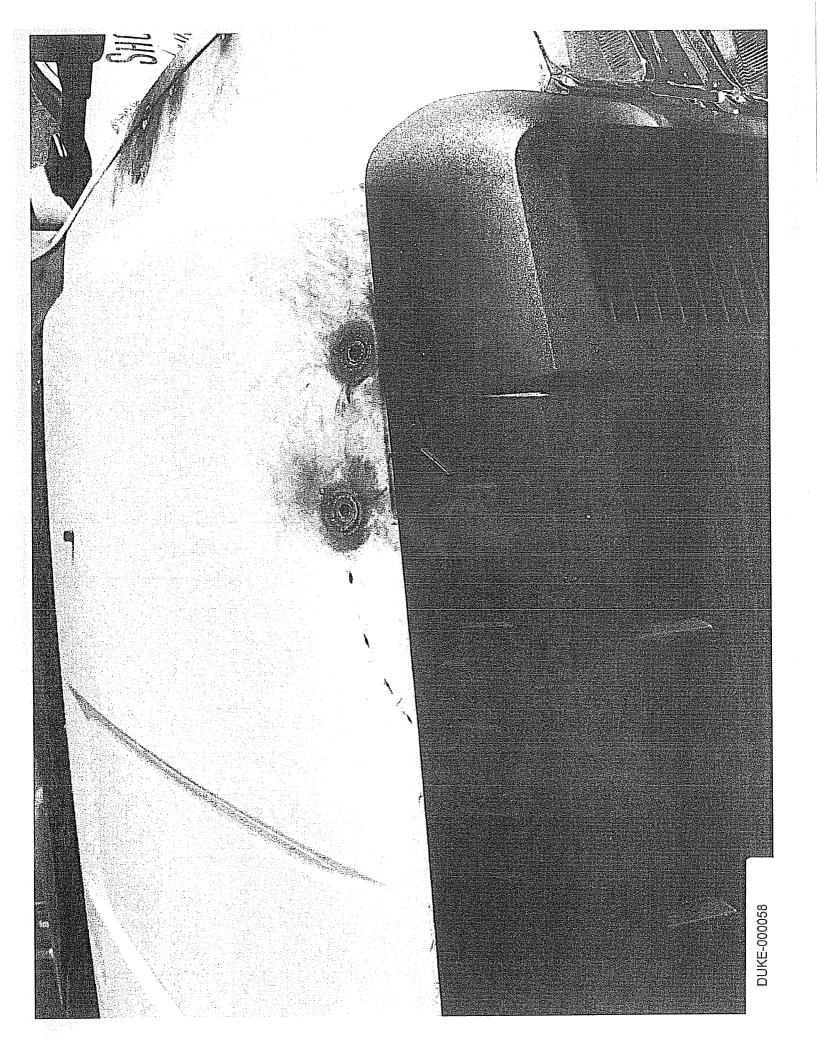




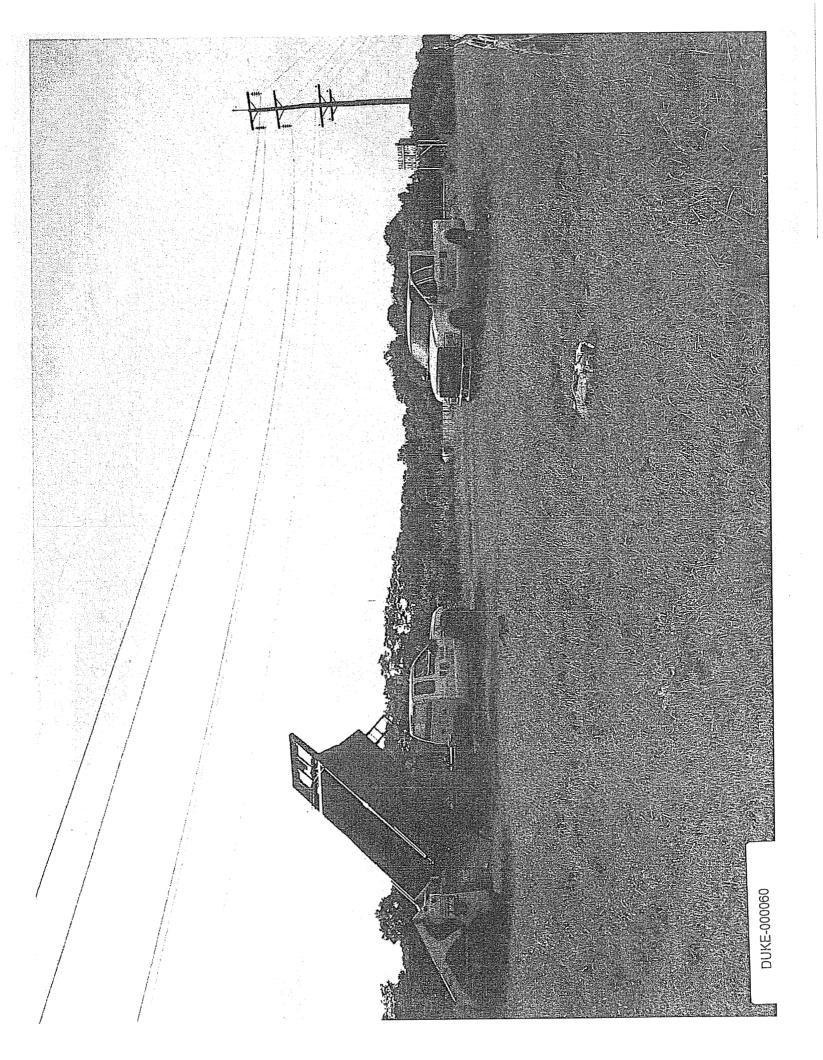


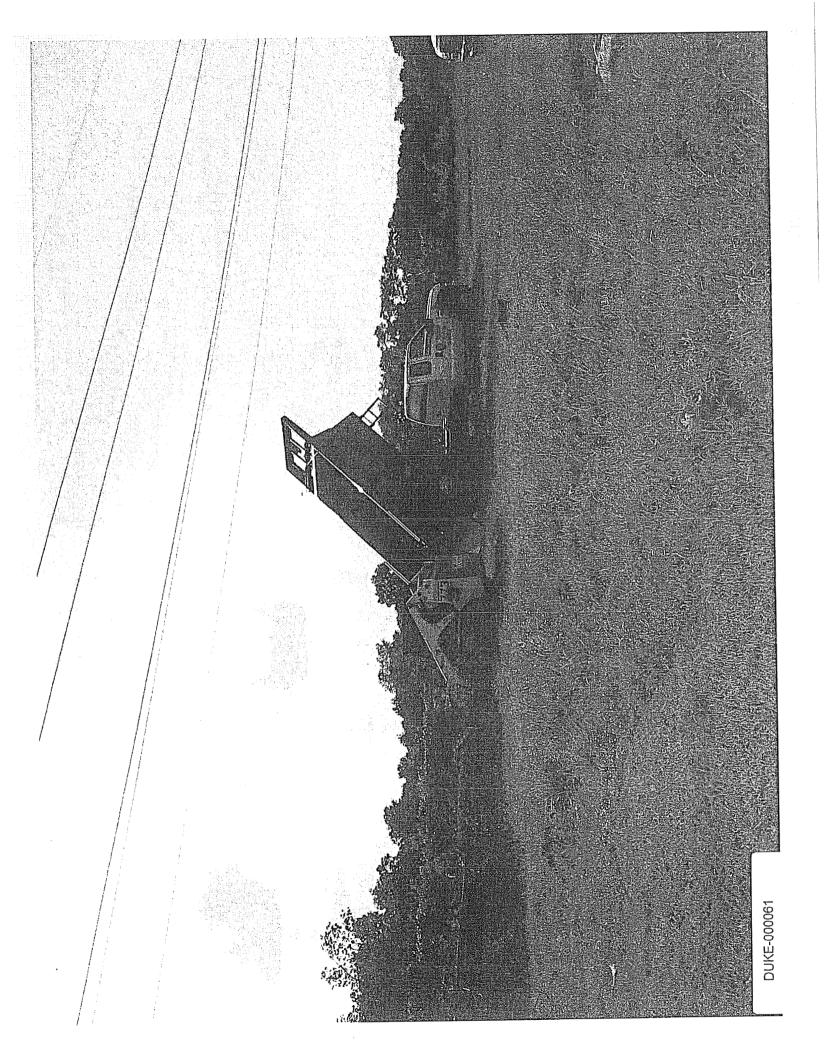


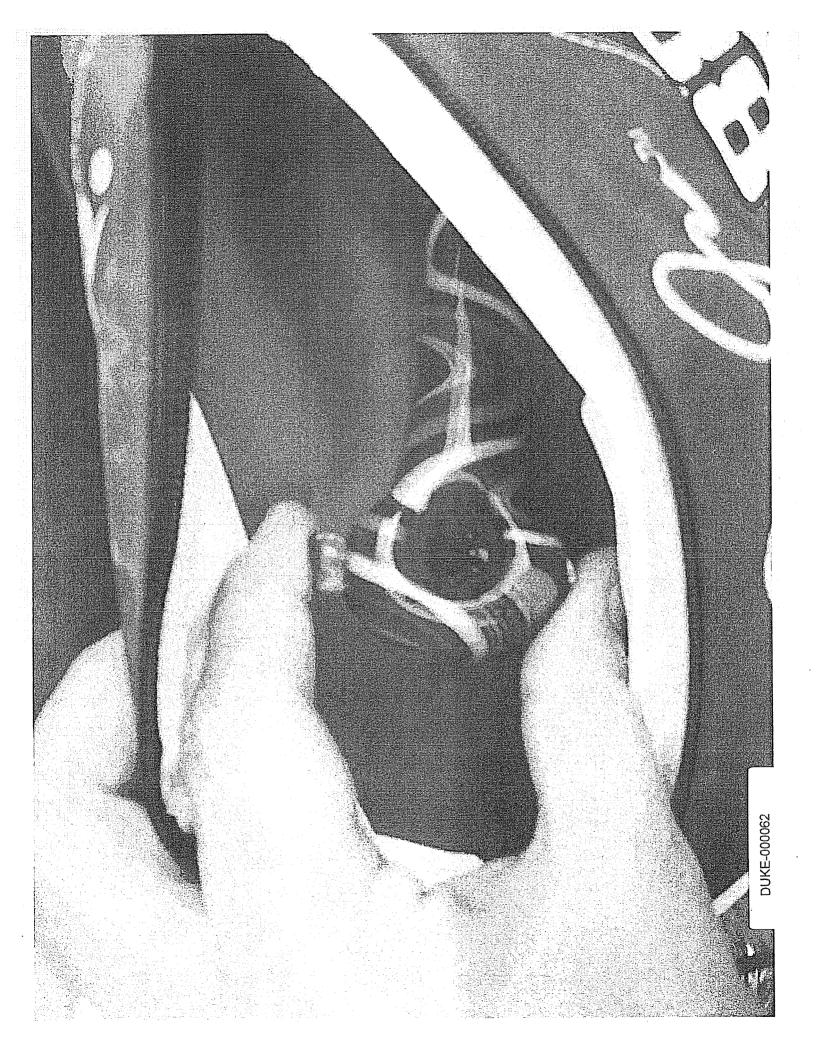


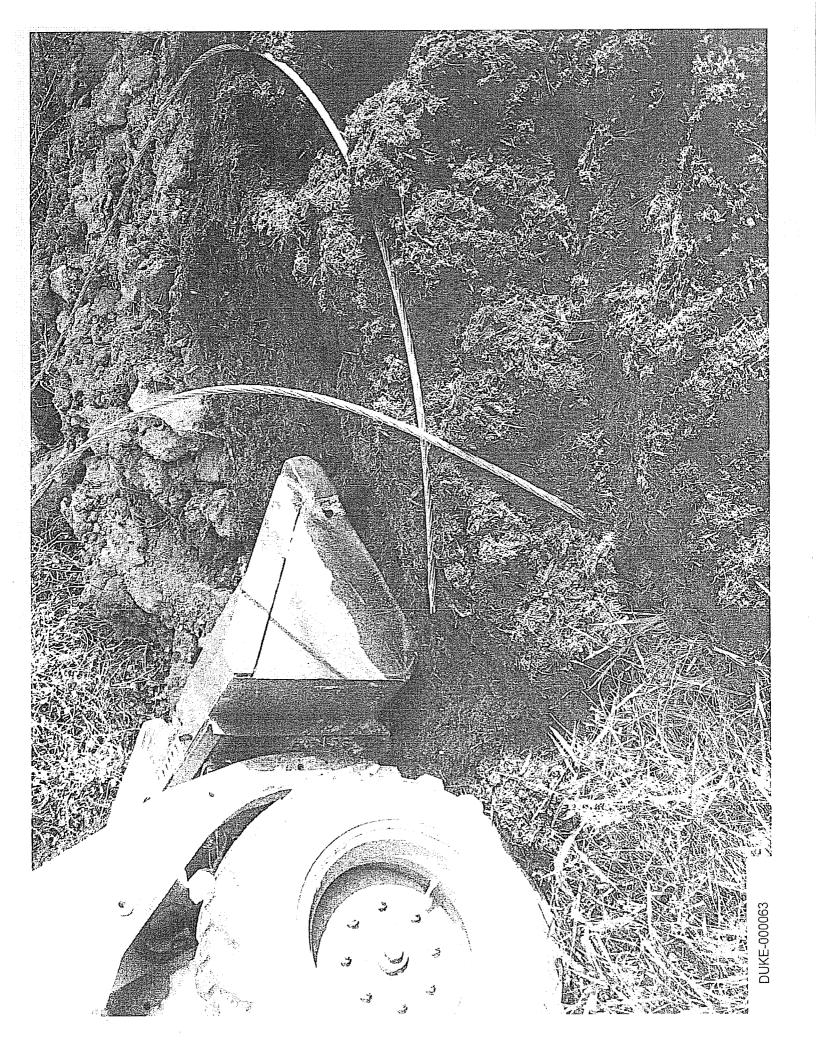




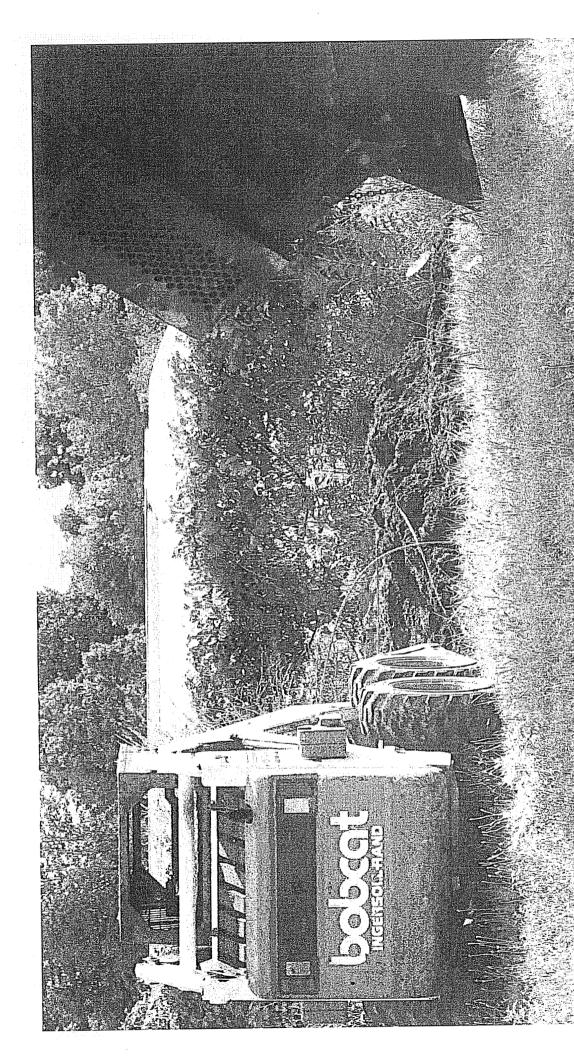












| Work Order | 883608 | | Distribution Assessment DL CRITTENDEN Feeder - 41 Sub ID # 124 | | | | | | | |
|-----------------------------------|-------------------|-----------|---|---------------------------------------|--------------------|--------------------|--|--|--|--|
| | | | 44725 04/27/ 2 - MEDIUM REMOVE O TWO POLE Referred to E Removed po | 00. | | | | | | |
| Circuit Number | CG124LINE | 41 | DL CRITTE | NDEN Feeder - 41 Sub ID # | 124 | Loc/Eq Priority | | | | |
| Reported By | Kindell, James | Date | 2006-04-27 (| 77:10:20 | | | | | | |
| Status | СОМР | Date | 2006-11-27 1 | 12:46:17 | | | | | | |
| | | | | | | | | | | |
| | Problem | n | | • | Responsibility | | | | | |
| Egu | ipment Class | MISC | | Supervisor | Lead Craft/Person | | | | | |
| Failure Code TWOP Pole Tag 5G-345 | | | OLE | · · · · · · · · · · · · · · · · · · · | | | | | | |
| | | | E. | 00 | | | | | | |
| | Tel Tag | NONE | , | District: FK | Group CNTR | | | | | |
| Follow-up W | | | | | Modified | | | | | |
| | Origina | ating WC | 882223 | | By 31642 | • | | | | |
| | Has Follow- | up Worl | N | | Date 2006-11-27 12 | 2:46:17 | | | | |
| | TCOMS | S Event # | f | | | | | | | |
| | | PSN # | F | | | | | | | |

8/4/2009

| Work Order | 631146 | | | Distribution Assessment DL CRIT | TENDEN Feeder | - 41 Sub ID # 124 | | WO Priority 3 | |
|-------------------|---------------------|---------|------|--|---------------|-------------------|-------------------|-----------------|--|
| | | | | 24749 02/27/02 11:42AM SMA 1.00, 3 - HIGH PRIORITY FK-FK CRITTENDEN STATION REMOVE SWITCH TAG 3034 FI ALONG WITH PHASE TAGS FIELD RPT FILED 10/10/02 BER | ROM POLE 5G- | | • | | |
| Circuit Number | CG124LI | NE41 | | DL CRITTENDEN Feeder - 41 Su | b ID# 124 | | | Loc/Eq Priority | |
| Reported By | Fischer, Stephan | | Date | 2002-02-27 11:42:17 | | | | | |
| Status | COMP | | Date | 2002-10-10 00:00:00 | | | | | |
| | | | | | | | | | |
| | Problem | | | | | Responsibility | | | |
| Equipmo | ent Class | MISC | | Supervisor | | Lead Craft/Pers | on | : | |
| Fail | ure Code | TAG | | | | | | | |
| | Pole Tag | 5G-346 | E | Actual Start 2002-10-10 00 | 0:00:00 | Actual Fini | sh 2002-10-10 00: | 00:00 | |
| | Tel Tag | | | District: | | Group | CNTR | | |
| Follow-t | | | | ıp Work | | Мо | Modified | | |
| | Orig | inating | wo | 629835 | | Ву | T42079 | | |
| | Has Follo | ow-up V | ork. | N | | Date | 2002-10-11 09:20 |):36 | |
| | TCO | MS Eve | nt# | | | | | | |
| | | PS | N# | | | | | | |

MAXIMO Work Orders

Distribution Work Order Management Site

CRIT

42 Open Workorders for CRIT

Area

District: Florence

Station: CRIT

Remove Filters

View Summary

30 records filtered

44725.01/25/08 02:25PM -- SMART Work Request generated from workorder 1022737 step 1,00, 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED AT 5 JILLIAN DR IN THE SHERMAN ESTATES M.H.P. URD 739 44725 01/28/08 02:39PM -- SMART Work Request generated from workorder 1022737 step 1.00. 3 - HIGH PRIORITY SMALL THRU HOLES & MISSING PENTA-HEAD BOLT ON 50KVA-1 PHASE TRANSFORMER LOCATED AT 256 SPILLMAN DR IN THE GRANTLAND ESTATES SUB'D. URD 429 44725 01/28/08 02:26PM -- SMART Work Request generated from workorder 1022737 step 1.00. 3 - HIGH PRIORITY DAMAGED SECONDARY PEDESTAL (ACCESS TO CONDUCTOR) LOCATED AT 265 SPILLMAN DR IN THE GRANTLAND ESTATES SUB'D. URD 429 44725 01/28/08 02:36PM — SMART Work Request generated from workorder 1022737 step 1.00. 3 - HIGH PRIORITY DAMAGED SECONDARY PEDESTAL (ACCESS TO CONDUCTOR) AT 335 SPILLMAN DR IN THE GRANTLAND ESTATES SUBD, URD 429 44725 01/28/08 02:32PM -- SMART Work Request generated from workorder 1022737 step 1,00, 3 - HIGH PRIORITY DAMAGED SECONDARY PEDESTAL (ACCESS TO CONDUCTOR) AT 605 SPILLMAN DR IN THE GRANTLAND ESTATES SUB'D. URD 429 44725 01/28/08 02:30PM -- SMART Work Request generated from workorder 1022737 step 1.00. 3 - HIGH PRIORITY DAMAGED SECONDARY PEDESTAL (ACCESS TO CONDUCTOR) AT 490 SPILLMAN DR IN THE GRANTLAND ESTATES SUB'D. URD 429 44725 01/28/08 02:28PM — SMART Work Request generated from workorder 1022737 step 1.00. 3 - HIGH PRIORITY DAMAGED SECONDARY PEDESTAL (ACCESS TO CONDUCTOR) AT 450 SPILLMAN DR IN THE GRANTLAND ESTATES SUB'D. URD 429 44725 01/28/08 02:34PM — SMART Work Request generated from workorder 1022737 step 1.00.3 - HIGH PRIORITY DAMAGED SECONDARY PEDESTAL (ACCESS TO CONDUCTOR) ACROSS FROM 685 44725 01/25/08 02:28PM -- SMART Work Request generated from workorder 1022737 step 1.00.0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED AT 11 JILLIAN IN THE SHERMAN ESTATES M.H.P. URD 739 44725 01/25/08 02:34PM — SMART Work Request generated from workorder 1022737 step 1,00. 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED AT 43 JILLIAN DR IN THE SHERMAN ESTATES M.H.P. URD 739 44725 01/25/08 02:32PM -- SMART Work Request generated from workorder 1022737 step 1.00. 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED AT 33 JILLIAN DR IN THE SHERMAN ESTATES M.H.P. URD 739 44725 01/25/08 02:31PM -- SMART Work Request generated from workorder 1022737 step 1,00, 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED AT 21 JILLIAN DR IN THE SHERMAN ESTATES M.H.P. URD 739 SPILLMAN DR IN THE GRANTLAND ESTATES SUB'D. URD 429 Commen Priority 0 0 eri rri 'n m L/3 m Ö 0 3 15G-292 15G-289 SG-26 15G-16 15G-282 15G-295 15G-33 156-31 15G-29 5G-27 150-8 9-DS1 햜 Pole Reportdate ! 01/28/2008 01/25/2008 01/25/2008 01/25/2008 01/25/2008 01/28/2008 01/28/2008 01/28/2008 01/28/2008 01/28/2008 01/25/2008 01/28/2008 Locking device is Other (see, comments) Other (see comments) Other (see comments) Other (see comments) missing or damaged comments) comments) missing or missing or missing or missing or comments) Other (see Other (see Other (see damaged damaged Problem Transformer Failure 1024704 1024703 1024879 1024878 1024706 1024705 1024702 1024884 1024883 1024882 1024880 1024881 #OM CG124LINE42 CG124LINE42 CG124LINE42 CG1241, INE42 CG124LINE42 CG124LINE42 等因子已 CG1241.INE42 CG 124LINE42 CG124LINE42 CG124L1NE42 CG124LINE42 _ocation

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| CG 124LINE42 | 1024701 | Transformer | Locking device is missing or dampsed | 01/25/2008 | 15.5.51 | 0 4 E E | 44725 01/25/08 02:23PM SMART Work Request generated from workorder 1022/37 step 1.00. 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED AT 79 KAYLA DR IN THE SHERMAN ESTATES M.H.P. URD 739 |
| CGIS4LINE42 | 1024700 | Transformer | device is | 01/25/2008 | 15G-49 | 0 P. P. P. S. | 44725 01/25/08 02:22PM SMART Work Request generated from workorder 1022/37 step 1.00. 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED AT 56 JESSICA DR IN THE SHERMAN ESTATES M.H.P. URD 739 |
| CG1241JNE42 | 1024699 | Transformer | Locking device is missing or | 01/25/2008 | 15G-47 | 0 4 G S | 44725 01/25/08 02:21PM SMART Work Request geherated from workorder 1022/37 step 1.00. 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED AT 48 JESSICA DR IN THE SHERMAN ESTATES M.H.P. URD 739 |
| CG124LINE42 | 1024698 | 1024698 Transformer | Locking device is missing or damaged | 01/25/2008 | 15G-46 | 0 PP S | 44725 01/25/08-02:19PM — SMART Work Request generated from workorder 1022/37 step 1.00. 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED AT 53 JESSICA DR. IN THE SHERMAN ESTATES M.H.P. URD 739 |
| ('G124LINE42 | 1024697 | Transförmer | Locking device is missing or damaged | 01/25/2008 | 15G-258 | 0 | 44725 01/25/08 02:18PM SMART Work Request generated from workorder 1022/3/3 step 1:00: 0 - 100. PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED AT 113 GOUGE DR IN THE SHERMAN ESTATES M.H.P. URD 739 |
| CG124LINE42 | 1024696 | Transformer | Shifted on pad | 01/25/2008 | 15Ģ-24 | 3 | 44725 01/25/08 02:10PM — SMART Work Request generated from workorder 102/37/step 1.00.3 - HIGH PRIORITY 1-PHASE SECTINALIZER SHIFTED ON BASE ALLOWING ACCESS TO CONDUCTOR LOCATED AT 3 JILLIAN DR IN THE SHERMAN ESTATES M.H.P. URD 739 |
| CG124LINE42 | 1024695 | Transformer | Other (sec | 01/25/2008 | 15G-263 | mi | 44725 01/25/08 02:06PM SMART Work Request generated from workorder 1022/37 step 1.00: 3 - HIGH PRIORITY HOLE IN CORNER OF FIBERGLASS BASE FOR 75KVA-1 PHASE PAD LOCATED AT 153 GOUGE DR IN THE SHERMAN ESTATES M.H.P. URD 739 |
| CG124LINE42 | 1024694 | Transforner | Shifted on pad | 01/25/2008 | 15G-260 | m | 44725 01/25/08 02:05PM — SMART Work Request generated from workorder 1022737 step 1.00. 3 - HIGH PRIORITY ACCESS TO CONDUCTOR ON 75KVA-1 PHASE PAD LOCATED AT 129 GOUGE DR IN THE SHERMAN ESTATES M.H.P. URD 739 |
| CG124LINE42 | 1024693 | l ransformer | Other (see | 01/25/2008 | 15G-236 | | 44725 01/25/08 02:00PM SMART Work Request generated from workorder 1022737 step 1.00. 3 - HIGH PRIORITY HOLE IN FIBERGLASS BASE FOR PAD LOCATED AT 385 GRANTLAND DR IN THE GRANTLAND ESTATES SUB'D. URD 1175 |
| CG124LINE42 | 1024692 | Transformer | Other (see | 01/25/2008 | 15G-232 | υ | 44725 01/25/08 01:58PM SMART Work Request generated from workorder 1022737 step 1.00. 3 - HIGH PRIORITY HOLE IN FIBERGLASS BASE FOR PAD LOCATED AT 335 GRANTLAND DR IN THE GRANTLAND ESTATES SUB'D. URD 1175 |
| CG124LINE42 | 1024399 | 7 Transformer | Locking device is missing or | 01/24/2008 | 15G-58 | .0 | 44725 01/24/08 02:30PM SMART Work Request generated from workorder 1022/37 step 1.00.0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED AT 42 TAYLOR LN IN THE COUNTRYSIDE ESTATES M.H.P. URD 871 Referred to Erlanger District 1/25/08. |
| CG124L1NE42 | 1024388 | Lightning Arrester | Damaged or broken | 01/24/2008 | 15G-197E | ĽÌ | 44725 01/24/08 01:51PM SMART Work Request generated from workorder 1022737 step 1.00. 2 MEDIUM PRIORITY PHASE-C ARRESTER DAMAGED & PHASE-B ARRESTER MISSING ON 3-PHASE U.G. FEED FOR THE GRANTLAND ESTATES, RT 25 & SPILLMAN DR N/O BANNISTER URD 429 Referred to Erlanger District 1/25/08. |
| CG1241.1NE42 | 1024386 | 6 Guys | Add strain insulator | 01/24/2008 | 10G-23E | C 1 | 44725 01/24/08 01:46PM SMART Work Request generated from workorder 1022737 step 1.00. 2 - MEDIUM PRIORITY DAMAGED GUY STRAIN INSULATOR ON POLE ACCESSED FROM SHERMAN BAPTIST CHURCH DRIVEWAY AT 3525 RT 25 S/O HYDE Referred to Enlanger District 1/25/08. |
| CG124LINE42 | 865369 | Тлапѕбоппет | Райм | 03/02/2006 | 15G-51 | - | 44725 03/02/06 11:33AM SMART Work Request generated from workorder 862814 step 3.10. 1 - LOW PRIORITY LOCATED AT 79 KAYLA DR URD 739 |
| CG1241.INE42 | 2 865357 | Transformer | Paint | 03/02/2006 | 15G-LH-6 | | 44725 03/02/06 11:16AM SMART Work Request generated from workorder 862814 step 3.10. 1 - LOW PRIORITY LOCATED ON GREGORY LN IN THE HY-RIDGE MOBILE HOME PARK |
| CG124LINE42 | 2 865356 | Transformer | Paint | 03/02/2006 | 15G-KH-10 | - | 44725 03/02/06 11:14AM SMART Work Request generated from workorder 862814 step 3.10. 1 - LOW PRIORITY LOCATED ON GENA DR. IN THE HY-RIDGE MOBILE HOME PARK |
| CG124LINE42 | 2 864155 | Transformer | Paint | 02/27/2006. | 10G-AB-2 | - | 44725 02/27/06 07:39AM SMART Work Request generated from workorder 862814 step 3:10.1 - LOW PRIORITY LOCATED AT 59 INDIAN HILL DR. URD 1271 |
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Page 1 of 4

Area: SOUTH

District: FLORENC Substation: CRIT

Location ID: CG124LINE42

PM Number:

Distribution Assessment DL CRITTENDEN Feeder - 42 Sub ID # 124 32 Records Found

You may resort the table by clicking on the field name. For example, if you would like to resort by the Work Order Number, Click on the name, If it is already sorted by Work Order Number, it will resort in the opposite direction. If it's already sorted in ascending order, it will then be sorted in descending order and vice versa. This table sorted by Priority in descending order

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| 1024692 | Transformer | Other (see etimineilis) | 44725 | WAPPR | WAPPR 1/28/2008 8:01:49 AM 115G-232 | 56-232 | | 44725 01/25/08 (11:38PM SMART WORK Kequest generated from workorder (02:2737 step 1:00.3 - IIIGH PRIORITY HOLE from Fibergilass BASE FOR PAD LOCATED AT 335 GRANTLAND DR IN THE GRANTLAND ESTATES SUB'D. URD 1175 |
| 1024693 | l ransformer | Other (see comments) | 44725 | WAPPR I | WAPPR, 128/2008 8:01:49 AM 15G-236 | 15G-236 | ω 4 ⊊ Ξ Ω Ω | 44725 01:25:08 02:00PM SMART Work Request generated from worknoder 1022737 step 1:00. 3 - HIGH PRIORITY HOLE IN FIBERGLASS BASE FOR PAD LOCATED AT 385 GRANTLAND DR. IN THE GRANTLAND ESTATES SUBID: URD 1175 |
| <u>1024695</u> . | Transionner | Other (see comments) | 44725 | WAPPR 1 | WAPPR [1:28,2008, 8:01:49.AM 15G-263 | 15Ci-263 | # <u># # # # # # # # # # # # # # # # # # </u> | 44725 01/25/08 02:06PM SMART Work Request generated from workorder 1022737 step 1.00. 3 - HIGH PRIORITY HOLE IN CORNER OF FIBERCLASS BASE FOR 75KVA-1 PHASE PAD LOCATED AT 153 GOUGE DR IN THE SHERMAN ESTATES M.H.P. URD 739 |
| 1024878 | Transformer | Other (see crimments) | 44725 | WAPPR | WAPPR 1/28/2008 3:33:25 PM | 15G-8 | 4.6000 | 44725 01728/08 02:26PM SMART Work Request generated from workurder 1022737 step 1:00: 3 - HIGH PRIORITY DAMAGED SECONDARY PEDESTAL (ACCESS TO CONDUCTOR) LOCATED AT 265 SPILLMAN DR IN THE GRANTLAND ESTATES SUBD. URD 429 |
| 1024879 | ไรลารไบรักษา | Other (see comments) | 14725 | WAPPR | WAPPR 1/28/2008 3:33:25 PM 1,5G-289 | 15G-289 | т - | 44725 01/28/08 02:28PM - SMART Work Request generated from workorder 1022737 step 1.00. 3 - HIGH PRIORITY DAMAGED SECONDARY PEDESTAL (ACCESS TO CONDUCTOR) AT 450 SPILLMAN DR IN THE GRANTLAND ESTATES SUB'D. URD 429 |
| 1024880 | Transformer | Other (see comments) | 4472.5 | WAPPR | WAPPR 1/28/2008 3/33/25 PM 15/3-292 | 13:3-292 | w. | 44725 01/28:08 02:30PM SMART Work Request generated from workorder 1022737 step 1.00: 3 - HIGH PRIORITY DAMAGED SECONDARY PEDESTAL (ACCESS TO CONDUCTOR) AT 490 SPILLMAN DR IN THE GRANTLAND ESTATES SUB'D. URD 429 |
| 1024881 | Tanstlyriner | (jther free comments) | 44725 | WATPR | WAITPR 1.28-2008 3:33:25 PM 15G-295 | 15G-29 <u>5</u> | | 44725 01/28/08 02:32PM SMART Work Request generated from workorder 1022737 step 1.00. 3 - HIGH PRIORITY DAMAGED SECONDARY PEDESTAL (ACCESS TO CONDUCTOR) AT 605 SPILLMAN DR IN THE GRANTLAND ESTATES SUBL), URD 429 |
| 1024882 | Transformer | Other (see comments) | \$5,64 | WAPPR | WAPPR [1/2k/2008 3;33;25 PM 15G-282 | 15G-2 ^K 2 | ~ <u>,</u> | 44725 01/28/08 02:34PM SMART Work Request generated |

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| from workerler 1022737 step 1:00. 3 - HIGH PRIORITY DAMAGED SECONDARY PEDESTAL (ACCESS TO CONDUCTORY ACROSS FROM 685 SPILLMAN DR IN THE GRANTLAND ESTATES SUB'D. URD 429 | 44725.01/28/08 02:36PM — SMART Work Request generated from workerder 1022737 step 1:00. 3 - HIGH PRIORITY DAMAGED SECONDARY PEDESTAL (ACCESS TO CONDUCTOR) AT 335 SPILLMAN DR IN THE GRANTLAND ESTATES SUBTO. URD 429 | 44725 01,28:08 02,39PM SMART Work Request generated from workorder 1022737 step 1.00. 3 - HIGH PRIORITY SMALL THRU HOI.ES. & MISSING PENTA-HEAD BOLT ON SOKVA-1 PHASE TRANSFORMER LOCATED AT 256 SPILLMAN DR IN THE GRANTLAND ESTATES SUB'D. URD 429 | 44725 0,125,08 02:05PM — SMART Work Request generated from workorder 1022737 step 1.00. 3 - HIGH PRIORITY ACCESS TO CONDUCTOR ON 75KVA-1 PHASE PAD LOCATED AT 129 GOUGE DK IN THE SHERMAN ESTATES M.H.P. URD 739 | 44725 01/25/08 02:10PM — SMART Work Request generated from workender 1022/37 step 1.00. 3 - HIGH PRIORITY 1-PHASE SECTINALIZER SHIFTED ON BASE ALLOWING ACCESS TO CONDUCTOR LOCATED AT 3 JILLIAN DR IN THE SHERMAN ESTATES M.H.P. URD 739 | 44725 01/17/08 08:02AM — Hold Reason: END OF SHIFT, 44725 01/17/08 08:55AM — Hold Reason: END OF SHIFT, 44725 01/24/08 02:31PM — Hold Reason: END OF SHIFT, 44725 01/25/08 02:11PM — Hold Reason: END OF SHIFT, 44725 01/25/08 02:13PM — Hold Reason: END OF SHIFT, 44725 01/28/08 07:40AM — Hold Reason: END OF SHIFT, 44725 01/28/08 07:39PM — Hold Reason: END OF SHIFT, 44725 01/28/08 02:39PM — Hold Reason: END OF SHIFT, 44725 | 44725 01/24/08 01:46PM SMART Work Request generated from workorder 1022/37 step 1:00.2 - MEDIUM PRIORITY DAMAGED GUY STRAIN INSULATOR ON POLE ACCESSED FROM SHERMAN BAPTIST CHURCH DRIVEWAY AT 3525 RT 25 S/O HYDE Referred to Erlanger District 1/25/08. | 44725 01/24/08 01:51PM SMART Work Request generated from workorder 1022737 step 1.00. 2 - MEDIUM PRIORITY PHASE-C ARRESTER DAMAGED & PHASE-B ARRESTER MISSING ON 3-PHASE U.G. FEED FOR THE GRANTLAND ESTATES, RT 25 & SPII,LMAN DR N/O BANNISTER URD 429 Referred to Erlanger District 1/25/08. | 44725 01/24/08 01:55PM — SMART Work Request generated from workorder 1022/37 step 1.00. 2 - MEDIUM PRIORITY PARTIAL PIECE OF POLE HANGING WITH TELEPHONE & CATV STILL ATTACHED AT 1065 DRY RIDGE RD OFF THE EAST SIDE OF RT 25 S/O BANNISTER. | 44725 01/24/08 02:07PM SMART Work Request generated from workorder 1022737 step 1.00. 2 - MEDIUM PRIORITY POLE BARE AT LEMON-NORTHCUTT & DRY RIDGE RD | 44725 02/27/06 07:38AM SMART Work Request generated from workorder 862814 step 3.10. 1 - LOW PRIORITY LOCATED AT 55 INDIAN HILL DR. URD 1271 | 44725 02/27/06 07:39AM SMART Work Request generated from workorder 862814 step 3.10. 1 - LOW PRIORITY |
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| | 5G-16 | 15র-6 | 097-051 | [5G-24 | | 10G-23E | 15G-197E | 20G-473C | 15G-168E | 10G-AB-10 | 10G-AB-2 |
| | Mg 2535515 PM | M 525555 PM | WAPPR 1-28/2008 8:01:49 AM 15G-260 | 12K200K 8:01:49 AM | 1/28/2008 2:39:42 PM | WAPPR 1/25/2008 7:40:45 AM | 1/25/2008 7:40:45 AM | 1/25/2008 7:40:45 AM 20G-473C | WAPPR 1/25/2008 7:40:45 AM | 2/27/2006 7:40:59 AM | 2/27/2006 7:40:59 AM 10G-AB-2 |
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| LOCATED AT 59 INDIAN HILL DR. URD 1271 44725 03/02/06 11:14AM SMART Work Request generated | from workerder 862814 step 3.10: 1 - LOW PKIOKLIY LOCATED ON GENA DR. IN THE HY-RIDGE MOBILE HOME PARK | 44725 03/02/06 11:16AM SMART Work Request generated from workorder 862814 step 3:10. 1 - LOW PRIORITY LOCATED ON GREGORY LN IN THE HY-RIDGE MOBILE HOME PARK | 44725 03/02/06 11:33AM SMART Work Request generated from workorder 862814 step 3.10. 1 - LOW PRIORITY LOCATED AT 79 KAYLA DR URD 739 | 44725 01/25/08 02:18PM SMART Work Request generated from workorder 1022737 step 1.00: 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED AT 113 GOUGE DR IN THE SHERMAN ESTATES M.H.P. URD 739 | 44725 01/25/08 02:19PM SMART Work Request generated from workorder 1022737 step 1.00. 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED AT 53 JESSICA DR IN THE SHERMAN ESTATES M.H.P. URD 739 | 44725 01/25/08 02:21PM SMART Work Request generated from workorder 1022737 step 1.00. 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED AT 48 JESSICA DR IN THE SHERMAN ESTATES M.H.P. URD 739 | 44725 01/25/08 02:22PM — SMART Work Request generated from workorder 1022737 step 1.00 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED AT 56 JESSICA DR IN THE SHERMAN ESTATES M.H.P. URD 739 | 44725 01/25/08 02:23PM SMART Work Request generated from workorder 1022737 step 1.00, 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED AT 79 KAYLA DR IN THE SHERMAN ESTATES M.H.P. URD 739 | 44725 01/25/08 02:25PM SMART Work Request generated from workorder 1022737 step 1.00. 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED AT 5 JILLIAN DR. IN THE SHERMAN ESTATES M.H.P. URD 739 | 44725 01/25/08 02:28PM SMART Work Request generated from workorder 1022737 step 1.00: 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED AT 11 JILLIAN IN THE SHERMAN ESTATES M.H.P. URD 739 | 44725 01/25/08 02:31PM SMART Work Request generated from workorder 1022737 step 1.00. 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED AT 21 JILLIAN DR IN THE SHERMAN ESTATES M.H.P. URD 739 | 44725 01/25/08 02:32PM SMART Work Request generated from workorder 1022/37 step 1.00. 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED AT 33 JILLIAN DR. IN THE SHERMAN ESTATES M.H.P. URD 739 | 44725 01/25/08 02:34PM SMART Work Request generated from workorder 1022737 step 1.00. 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED AT 43 JILLIAN DR IN THE SHERMAN ESTATES M.H.P. URD 739 |
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| 15G-KH-10 | | 15G-LH-6 | 15G-51 | 5G-258 | 5G-46 | 5G-47 | 5G-49 | 1 <i>5</i> G÷51 | 5G-26 | .5G-27 | 5G-29 | 15G-31 | 15G-33 |
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| Paint | | Paint | Paint | Locking device is missing or damaged | Locking device is missing or damaged | Locking device is missing or damaged | Locking device is missing or damaged | Locking device is missing or damaged | Locking device is missing or damaged 44725 | Locking device is missing or damaged | Locking device is missing or damaged | Locking device is missing or damaged | Locking device is missing or damaged |
| Transformer | | Transformer | Transformer | Transformer | Transformer | Transformer | Transformer | Transformer | Туанsforme: | Transformer | Transformer | Transformer | Transformer |
| 75578 | direction . | <u>865357</u> | 865369 | 1024697 | 1024698 | 1024699 | 1024700 | 1024701 | 1024702 | <u>1024703</u> | 1024704 | 1024705 | 1024706 |

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Report For CG124LINE42

Show Summary Report

Copy To Excel

Monday, January 28, 2008

Distribution Work Order Management Site

CRIT

441 Closed/Cancelled/Completed Workorders for CRIT

View Summary Remove Filters

Area

District: Florence

Station: CRIT

| Location | WO# | Failure | Problem | Reportdate | Pole Tag | Priority | Comment |
|---------------|----------|--------------------------------|----------------------|------------|----------|----------|---|
| CG124LINE42 | 1169508: | Transformer | Other (see comments) | 07/24/2009 | SEC PED | 3 | 24600 07/24/09 03:08PM SMART Work Request generated from workorder 1164997 step 1.00. 3 - HIGH PRIORITY BROKEN SEC PED / 305 GRANTLAND DR Referred to Erlanger District 7/27/09. Perm repairs completed by R.Smith |
| CG124LINE42 | 1169505 | Transformer | Paint | 07/24/2009 | SEC PED | 3 | 24600 07/24/09 03:06PM SMART Work Request generated from workorder 1164997 step 1.00. 3 - HIGH PRIORITY BROKEN SEC PED / 390 GRANTLAND DR Perm repairs completed by R.Smith |
| CG 1241.INE42 | 1169504 | Transformer | Other (see comments) | 07/24/2009 | SEC PED | 3 | 24600 07/24/09 03:06PM SMART Work Request generated from workorder 1164997 step 1.00. 3 - HIGH PRIORITY BROKEN SEC PED / 330 GRANTLAND DR Referred to Erlanger District 7/27/09. Penn repairs completed by R.Smith |
| CG124LINE42 | 1169494 | Transformer | Other (see comments) | 07/24/2009 | SEC PED | 3. | 24600 07/24/09 12:12PM SMART Work Request generated from workorder 1164997 step 1.00. 3 - HIGH PRIORITY BROKEN SEC PED / 31 CHETALOU DR Referred to Erlanger District 7/27/0 Perm repairs completed by R.Smith |
| CG124LINE42 | 1156480 | Trouble Call System | N/A | 06/07/2009 | | | Allout 230 SPILLMAN DR, DRY RIDGE, 15G-4, REPL DEF 50KVA 7200 OKAY, ALL LOAD PICKED UP, OIL SPILL REQ CLEAN-UP 3FT AROUND PAD, NO BLUE STICKER, ALSO TREE REQ REM UNABLE TO OPERATE STICK IN PAD OIL SPILL SENT Completed by K.Howell |
| CG124LINE42 | 1102283 | Trouble Call System | N7Α | 12/21/2008 | | | 885 Dry Ridge Rd, DRY RIDGE EMASIBY-E dixie hwy and dry ridge rd, STUB POLE 20G-183 LAYING ON GROUND FROM PREVIOUS CALL, NO LONGER NEEDED, WILL NEED CLEANED UP Pole is gone, no longer needed Phone lines guy wire |
| CG124LINE42 | 1077476 | Trouble Call System | N/A | 10/19/2008 | | | EMASIBY-E, AllOut 225 GRANTLAND, DRY RIDO KY, 12M DOWN GUY REQ REPL, 15G-198. Hacke |
| C'G 124UJNE42 | 1077099 | Miscellaneous Pole Problems | Missing pole tag | 10/16/2008 | 15G-85E | ti | 44725 10/16/08 12:15PM PLEASE REMOVE INCORRECT RADIAL TAG [15G-11] & ATTACH CORRECT RADIAL TAG [15G-85] ON POLE LOCATED AT 3987 DIXIE HWY (SHERMAN ELEMENTARY SCHOOL) S/O SHERMAN-M'T ZION RD PER DRG. 908548 Completed by T.Ackermann |
| ĊĠ124LINE42 | 1037594 | Trouble Call System | N/A | 03/31/2008 | | | 33 Jillian Dr Lot: 34,DRY RIDGE AllOut 33 Jillian I Lot: 34,DRY RIDGEURD 739RAN #2 TEMP FROM P# 15G-33 TO P/U LOAD. COULD NOT LOCATE DUE TO WEATHER. NEED TO SEND CREW TO LOCATE AND INFORM CUST OF OPTIONS. CCEFN FILED Splice made by M. Kling on 4/7/8 within 2' of ped. DGB 4/7/8 |
| CG124LINE42 | F029302 | Trouble Call System | N/A | 02/06/2008 | | | 220 Crittenden Mt Zion Rd Mise: A,CRITTENDEN EMAStBy-E 220 Crittenden Mt Zion Rd Mise: A,CRITTENDENIN FRONT OF CRITTENDEN SUBSTATION P# GRK-24 SET OF 1200 KVAR CAPS HAVE BEEN DAMAGED AND REQ REPL. CAPS ARE OFFLINE. TRUCK ACCESSIBLE Replaced 1200K VAR Caps. Completed by T.Mahan |

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| CG124LINE42 | 1024884 | Transformer | Other (see comments) | 01/28/2008 | 15G-6 | . 3 | 44725 01/28/08 02:39PM SMART Work Request generated from workorder 1022737 step 1.00. 3 HIGH PRIORITY SMALL THRU HOLES &- MISSING PENTA-HEAD BOLT ON 50K VA-1 PHASE TRANSFORMER LOCATED AT 256 SPILLMAN DR IN THE GRANTLAND ESTATES SUB'D. URD 429 Repaired per Howell 1-30-08 |
|----------------------------|----------|-------------|--|------------|--------------|------------|--|
| CG124LINE42 | .1024883 | Transformer | Other (see comments) | 01/28/2008 | 15G-16 | | 44725 01/28/08 02:36PM SMART Work Request generated from workorder 1022737 step 1.00. 3 - HIGH PRIORITY DAMAGED SECONDARY PEDESTAL (ACCESS TO CONDUCTOR) AT 335 SPILLMAN DR IN THE GRANTLAND ESTATES SÜB'D. URD 429 |
| CG124LINE42 | 1024882 | Transformer | Other (see comments) | 01/28/2008 | 15G-282 | 3 | 44725 01/28/08 02:34PM SMART Work Request generated from workorder 1022737 step 1.00. 3 - HIGH PRIORITY DAMAGED SECONDARY PEDESTAL (ACCESS TO CONDUCTOR) ACROSS FROM 685 SPILLMAN DR IN THE GRANTLAND ESTATES SUB'D. URD 429 Replaced Ped per MAhan 2-1-08 |
| CG124LINE42 | 1024881 | Trunsformer | Other (see comments) | 01/28/2008 | 15G-295 | 3 | 44725 01/28/08 02:32PM SMART Work Request generated from workorder 1022737 step 1.00. 3 - HIGH PRIORITY DAMAGED SECONDARY PEDESTAL (ACCESS TO CONDUCTOR) AT 605 SPILLMAN DR IN THE GRANTLAND ESTATES SUB'D. URD 429 Patched hole per Mahan 2-1-08 |
| CG124LINE42 | 1024880 | Transformer | Other (see comments) | 01/28/2008 | 15G-292 | 3 | 44725 01/28/08 02:30PM SMART Work Request generated from workorder 1022737 step 1.00. 3 - HIGH PRIORITY DAMAGED SECONDARY PEDESTAL (ACCESS TO CONDUCTOR) AT 490 SPILLMAN DR IN THE GRANTLAND ESTATES SUB'D. URD 429 Replaced Pedestal per Mahan 2-1-08 |
| CCH24LINE42 | 1024879 | Transformer | Other (see comments) | 01/28/2008 | 15G-289 | 3 | 44725 01/28/08 02:28PM SMART Work Request generated from workorder 1022737 step 1.00. 3 - HIGH PRIORITY DAMAGED SECONDARY PEDESTAL (ACCESS TO CONDUCTOR) AT 450 SPILLMAN DR IN THE GRANTLAND ESTATES SUB'D, URD 429 |
| CG124LINE42 | 1024878 | Transformer | Other (see comments) | 01/28/2008 | . 15G-8 | 3 | 44725 01/28/08 02:26PM SMART Work Request generated from workorder 1022737 step 1.00. 3 - HIGH PRIORITY DAMAGED SECONDARY PEDESTAL (ACCESS TO CONDUCTOR) LOCATED AT 265 SPILLMAN DR IN THE GRANTLAND ESTATES SUB'D, URD 429 Replaced Pedestal per Mahan 2-1-08 |
| C [°] G1241.1NE42 | 1024706 | Transformer | Locking device is missing or damaged | 01/25/2008 | 15G-33 | Ó | 44725 01/25/08 02:34PM SMART Work Request generated from workorder 1022737 step 1.00. 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED AT 43 JILLIAN DR IN THE SHERMAN ESTATES M.H.P. URD 739 |
| CG124LINE42 | 1024705 | Transformer | Locking device is missing or damaged | 01/25/2008 | 15G-31 | Ü: | 44725 01/25/08 02:32PM SMART Work Request generated from workorder 1022737 step 1.00. 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED AT 33 JILLIAN DR IN THE SHERMAN ESTATES M.H.P. URD 739 Installed bolt per Smith 2-1-08 |
| C'Ğ 24LİNE42 | 1024704 | Transformer | Locking device is missing or damaged | 01/25/2008 | 15G-29 | o. | 44725 01/25/08 02:31PM SMART Work Request generated from workorder 1022737 step 1.00. 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED AT 21 JILLIAN DR IN THE SHERMAN ESTATES M.H.P. URD 739 |
| CG124LINE42 | 1024703 | Transformer | I ocking device is missing or damaged | 01/25/2008 | 15G-27 | 0 | 44725 01/25/08 02:28PM SMART Work Request generated from workorder 1022737 step 1.00. 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED AT 11 JILLIAN IN THE SHERMAN ESTATES M.H.P. URD 739 |
| | | | Locking | | | | 44725 01/25/08 02:25PM SMART Work Request |

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| | | | damaged | | | | COUNTRYSIDE ESTATES M.H.P. URD 871 Referred to Erlanger District 1/25/08. |
|-------------|--------------|--------------------------------|---|------------|-----------|-----|---|
| CG124LINE42 | 1024398 | Transformer | Locking device is missing or damaged | 01/24/2008 | 15G-53 | 0 | 44725 01/24/08 02:29PM SMART Work Request generated from workorder 1022737 step 1.00. 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED AT 33 TAYLOR LN IN THE COUNTRYSIDE ESTATES M.H.P. URD 871 Referred to Erlanger District 1/25/08. |
| CG124LINE42 | 1024397 | Guys | Missing guy guard | 01/24/2008 | 15G-165E | | 44725 01/24/08 02:21PM SMART Work Request generated from workorder 1022737 step 1.00. 1 - LOW PRIORITY POLE LOCATED AT 310 NEEDHAM LN ACCESSIBLE FROM RT 25 N/O BANNISTER Referred to Erlanger District 1/25/08. Installed guy guard. Completed by R.Smith |
| €G124LINE42 | 1024396 | Transformer | Locking device is missing or damaged | 01/24/2008 | 15G-22 | 0 | 44725 01/24/08 02:16PM SMART Work Request generated from workorder 1022737 step 1.00. 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED OFF PRIVATE DRIVE ON EAST SIDE OF STREET AT 395 NEEDHAM LN ACCESSIBLE FROM RT 25 N/O BANNISTER Referred to Erlanger District 1/25/08. |
| CG124LINE42 | 1024395 | Transformer | Locking device is missing or damaged | 01/24/2008 | 15G-LH-6 | 0 | 44725 01/24/08 02:14PM SMART Work Request generated from workorder 1022737 step 1.00. 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED AT 62 GREGORY LN IN THE HYRIDGE M.H.P. OFF LEMON-NORTHCUTT RD Referred to Erlanger District 1/25/08. |
| CG124LINE42 | 1024394 | Transformer | Locking device is missing or damaged | 01/24/2008 | 15G-LJ-2 | 0 | 44725 01/24/08 02:12PM SMART Work Request generated from workorder 1022737 step 1.00. 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED AT 69 THERESA DR IN THE HYRIDGE M.H.P. OFF LEMON-NORTHCUTT RD Referred to Erlanger District 1/25/08. |
| CG124LINE42 | 1024393 | Transformer | Locking device is missing or damaged | 01/24/2008 | 15G-KH-10 | .0 | 44725 01/24/08 02:10PM SMART Work Request generated from workorder 1022737 step 1.00. 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED ACROSS FROM 81 GENA IN THE HY-RIDGE M.H.P. OFF LEMON-NORTHCUTT RD Referred to Erlanger District 1/25/08. |
| CG124LINE42 | 1024392 | Miscellaneous Pole Problèms | Attachment tracking | 01/24/2008 | 15G-168E | 2 | 44725 01/24/08 02:07PM SMART Work Request generated from workorder 1022737 step 1.00. 2 - MEDIUM PRIORITY POLE BARE AT LEMONNORTHCUTT & DRY RIDGE RD Referred to Erlanger District 2/19/08. Removed old pole. K.Howell |
| CG124LINE42 | 1024391 | Guys | Missing guy guard | 01/24/2008 | 15G-195E | 1 | 44725 01/24/08 02:06PM SMART Work Request generated from workorder 1022737 step 1.00. 1 - LOW PRIORITY NPT POLE LOCATED ON ECKLER RD. 2 POLES WEST OF 885 ECKLER RD Referred to Erlanger District 1/25/08, Installed guy guard, Completed by R.Smith |
| CG124LINE42 | 1024390 | Transformer | Other (see comments) | 01/24/2008 | 15G-11 | 3 | 44725 01/24/08 01:59PM SMART Work Request generated from workorder 1022737 step 1.00. 3 - HIGH PRIORITY THRU IIOLE IN 25KVA-I PHASE TRANSFORMER LOCATED OFF THE PRIVATE DRIVE OFF NORTH SIDE OF STREET ON LEMON-NORTHICUTT. NO ADDRESS AVAILABLE, PAD LOCATED IN REAR OF HOUSE AT NORTON CEMETARY Referred to Erlanger District 1/25/08. Repaired hole with bolt & washer. Completed by R.Smith |
| CG124LINE42 | 1024388 | Lightning Arrester | Damaged or broken | 01/24/2008 | 15G-197E | . 2 | 44725 01/24/08 01:51PM SMART Work Request generated from workorder 1022737 step 1.00. 2 - MEDIUM PRIORITY PHASE-C' ARRESTER DAMAGED & PHASE-B ARRESTER MISSING ON 3-PHASE U.G. FEED FOR THE GRANTLAND ESTATES, RT 25 & SPILLMAN DR N/O BANNISTER URD 429 Referred to Erlanger District 1/25/08. Installed 2 L/A's per Hacker 2-1-08 |
| | | | | | | | |

| CG124LINE42 | 1024387 | Guys | Missing guy | 01/24/2008 | 15 G- 8E | ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; | 44725 01/24/08 01:48PM SMART Work Request generated from workorder 1022737 step 1.00. I - LOW PRIORITY POLE LOCATED OFF PRIVATE DRIVE |
|---------------|---------|--------------------------|---|--------------|-----------------|---------------------------------------|--|
| COTZTENSETZ | 1024307 | Ouys | guard | 0112112000 | 1.0-01. | | ON THE WEST SIDE OF STREET AT 4145 RT 25 N/O SUMMERFIELD Referred to Erlanger District 1/25/08, Installed guy guard. Completed by R.Smith |
| CG124LINE42 | 1024386 | Guys | Add strain insulator | 01/24/2008 | 10G-23E | 2 | 44725 01/24/08 01:46PM SMART Work Request generated from workorder 1022737 step 1.00. 2 - MEDIUM PRIORITY DAMAGED GUY STRAIN INSULATOR ON POLE ACCESSED FROM SHERMAN BAPTIST CHURCH DRIVEWAY AT 3525 RT 25 S/O HYDE Referred to Erlanger District 1/25/08. Installed 2 arrestors per Hacker 2-1-08 |
| CG124LINE42 | 1024385 | Transformer | Lacking device is missing or damaged | 0.1/24/2008. | 15G-37 | . | 44725 01/24/08 01:43PM — SMART Work Request generated from workorder 1022737 step 1.00. 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD AT 6 TAYLOR LN IN THE COUNTRYSIDE ESTATES M.H.P. URD 871 Referred to Erlanger District 1/25/08. |
| CG124LINE42 | 1024384 | Transformer | Locking device is missing or damaged | 01/24/2008 | 15G-42 | Ö | 44725 01/24/08 01:41PM SMART Work Request generated from workorder 1022737 step 1.00. 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD 0FF THE DRIVE TO THE LIFT STATION ON THE EAST SIDE OF 26 TAYLOR LN IN THE COUNTRYSIDE ESTATES M.H.P. URD 871 Referred to Erlanger District 1/25/08. |
| CG124LINE42 | 1024383 | Transformer | Locking device is missing or damaged | 01/24/2008 | 15G-54 | 0 . | 44725 01/24/08 01:39PM SMART Work Request generated from workorder 1022737 step 1.00, 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED AT 82 HILLSIDE DR IN THE COUNTRYSIDE ESTATES M.H.P. URD 876 Referred to Erlanger District 1/25/08. Installed bolt per Smith 1-28-08. |
| C'G124LINE42 | 1023344 | Capacitor and Control | Line fuse | 01/21/2008 | 10G-158E | 2 | 18371 01/21/08 07:42AM — Reported by line inspecter Jim Kindell. Referred to Erlanger District 1/21/08. Caps, control & base checked OK. Replaced 80A standard fuse. Left Caps on AUTO & working. Completed by D.Hacker |
| ČG i 24LINE42 | 1022962 | Transformer | Locking device is missing or damaged | 01/17/2008 | 5G-LC-11 | 0 | 44725 01/17/08 08:56AM SMART Work Request generated from workorder 1022737 step 1.00. 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED AT 6 MOCKINGBIRD LN IN THE INDIAN HILL M. H. P. OFF RUARK RD. URD 1271 Referred to Erlanger District 1/18/08, Installed penta bolt. Per Ashley. |
| CG1241.INE42 | 1022961 | Transformer | Locking device is missing or damaged | 01/17/2008 | 5G-LC-4 | 0 | 44725 01/17/08 08:55AM SMART Work Request generated from workorder 1022737 step 1.00, 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED ACROSS FROM 29 MOCKINGBIRD LN IN THE INDIAN HILL M. H. P. OFF RUARK RD, URD 1271 Referred to Erlanger District 1/18/08. Installed penta bolt. Per Ashley. |
| CG124LINE42 | 1022960 | Transformer | Locking device is missing or damaged | 01/17/2008 | 10B-273 | 0 | 44725 01/17/08 08:53AM SMART Work Request generated from workorder 1022737 step 1.00.0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED AT 73 INDIAN HILL DR IN THE INDIAN HILL M. H. P. OFF RUARK RD. URD 1271 Referred to Erlanger District 1/18/08. Installed penta bolt. Per Ashley. |
| CG1241.INE42 | 1022959 | Transformer | Locking device is missing or damaged | 01/17/2008 | 10G-ÁB-1 | Ü | 44725 01/17/08 08:51AM SMART Work Request generated from workorder 1022737 step 1.00. 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON PAD LOCATED AT 51 INDIAN HILL DR IN THE INDIAN HILL M.H.P. OFF RUARK RD. URD 1271 Referred to Erlanger District 1/18/08. Installed penta bolt. Per Ashley. |
| | | | Locking device is | | | | 44725 01/17/08 08:49AM SMART Work Request generated from workorder 1022737 step 1.00. 0 - NO PRIORITY MISSING PENTA-HEAD BOLT ON |

| CG 124LINE43 | 960019 | Trouble Call System | N/A | 03/27/2007 | | | 300 CHETALOU DR, DRY RIDGE DrpDisServ PULL BOX ROUND LID REQ SECUREDDROP SERV WEDS 3/28/07 9:00 AM TO REPLACE MTR BASE **CUST ADVISED THAT RELEASE & CPC INSPECTION REQ'D TO RESTORE SERV MTR#64013823** Repaired pullbox lid / Ashley |
|--------------|--------|--------------------------------|-----------------------|------------|----------|---|---|
| CG124LINE42 | 955297 | Trouble Call System | N/A | 02/28/2007 | | | BangExplos, AllOut 3585 DIXIE HWY, DRY RIDGE. PLEASE REPL 10 KVA/7200 TRF ON P#10G-26. TRUCK ACCESIBLE W/ MO MATS. LID IS GONE FROM TRF, WITH 100 SQ FT AREA OIL COVERED, NO PCB STICKER ON TRF, HOT TAP LIFTED, NO LOAD ON TRF. PL INSTALL 40T ON P#10G-227 TO SECTIONALIZE removed transformer |
| CG124LINE42 | 944994 | Trouble Call System | N/A | 01/17/2007 | | | 4025 Dixic Hwy,DRY RIDGE PoleHit-H 65/2 POLE#15G-90E,HL# 599 HIT BY SCHOOL BUS, FRANZEN AND ERLANGER CREWS ON SITE TO MAKE TEMPO REPR,POLE SECURED BY CREWS 1205 HRS, WILL REPR PERM AFTER SYSTEM OUTAGE SCHEDULED.(CIR#6761) replaced pole |
| CG124LINE42 | 942546 | Capacitor and Control | Line fuse | 01/08/2007 | 10G-171 | 2 | 18371 01/08/07 12:10PM Open line fuse on road phase. Referred to Erlanger Electric Trouble to check Caps 1/10/07. Caps checked OK; Re-fused & left on Auto N./ Ackerman |
| CG124LINE42 | 941305 | Trouble Call System | N/A | 01/02/2007 | | | 3525 Dixie Hwy,DRY RIDGE DmgdEqip-H TP 10G- 227, REQ 3 NEW CU . ALSO REQ FLAGGERS, 2 LANE HWY.PAD 10G-3 HAS TERMITES ONTO STRESS CONES REM.3525 Dixie Hwy,DRY RIDGE GOOD ADD. completed on outage |
| CG1241 [NE42 | 939473 | Trouble Call System | N/A | 12/18/2006 | | | Grantland Dr,DRY RIDGE DmgdEqip-H STRN PAD G15-235 REQ NEW MOUNTING BRACKETS AND BARRIER PROTECTION, REPEATED HITSsits between 394 & 400 Grantland Dr,DRY RIDGE transformer is ok at this time |
| CG124LINE42 | 930927 | Trouble Call System | N/A | 11/06/2006 | | | 270 Crittenden Mt Zion Rd, CRITTENDEN DigInWr- H PREV DAMG REPR BY FLOR CREWS, RANDY HITCH HAS ALL INFO, NEEDED E# FOR BILLING. DOES NOT NEED PROP DAMG, 270 Crittenden Mt Zion Rd, CRITTENDEN, GRANT CO BD OF ED. replaced street light pole |
| CG124LINE42 | 901938 | Trouble Call System | N/A | 07/07/2006 | | | UNKNOWN URD 429, DEF #2 CN BETWEEN UL18035 IN SW MODULE 15G-2 & UL18036 IN TRF 15G-5 REQ REPR'D repaired cable |
| CG124LINE42 | 878755 | Trouble Call System | N/A. | 04/07/2006 | | | 2945 dixie hwy crittendenpole 10g0135 rotted off with 25 kvapole and trans laying in greenhouseop primary jumper adj pole (npt), tap not used"show place nursery" paul fox, Home 1/859/428/0740cell 1/859/393/3873 removed pole and transformer |
| CG124LINE42 | 867365 | Trouble Call System | N/A | 03/06/2006 | | | 195 Eagle Ridge Dr.CRITTENDEN PartOut RAN #2 TRI TEMP FOR CONVIENIENCE ADJ TO PED 10G-328 DISC 4/0 SECNEED DIST TO CHEC'K FOR LOCATION NOTHING SIGNED195 Eagle Ridge Dr.CRITTENDEN fault on einergy's side of ug- service, repaired permanent and removed #2 triplex temporary which was put in for our convenience |
| CG (24LINE42 | 865368 | Miscellaneous Pole Ptoblems | Missing pole tag | 03/02/2006 | 15G-221E | ļ | 44725 03/02/06 11:32AM SMART Work Request generated from workorder 862814 step 3.10. 1 - LOW PRIORITY RADIAL TAG [15G-221] HANGING LOOSE ON POLE LOCATED AT JILLIAN ST & NEEDHAM LN TROUBLE 3/3/06 TCP Referred to Erlanger District 3/28/07. secured tag |
| CG124LINE42 | 865367 | Guys | Improper isolation | 03/02/2006 | 15G-221F | 1 | 44725 03/02/06 11:28AM SMART Work Request generated from workorder 862814 step 3.10. 1 - LOW PRIORITY LOCATED AT JILLIAN ST & NEEDHAM LN Referred to Florence District 3/08/06. Installed liber guy break / Hacker |
| | | | | | | | 44725 03/02/06 11:27AM SMART Work Request generated from workorder 862814 step 3.10. I - LOW |

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| CG124LINE42 | 864846 | Transformer | Other (see comments) | 03/02/2006 | 15G-KH-4 | 3 | CREATING SMALL ACCESS TO CONDUCTOR AT 15 CHETALOU, HY-RIDGE MOBILE HOME PARK Referred to Florence District 3/02/06. adjusted transformer |
|---------------|--------|--------------------------------|----------------------------|------------|----------|----------|---|
| CG124LINE42 | 864626 | Guys | Improper isolation | 03/01/2006 | 20G-446C | 1 | 44725 03/01/06 08:10AM SMART Work Request generated from workorder 862814 step 3:10, 1 - LOW PRIORITY LOCATED IN DRY RIDGE RD ACROSS FROM THE GRANT COUNTY FOODS Referred to Florence District 3/07/06. Installed fiber guy break / Hacker |
| CG124LINE42 | 864625 | Guys | Improper isolation | 03/01/2006 | 20G-470C | , | 44725 03/01/06 08:09AM SMART Work Request generated from workorder 862814 step 3.10. 1 - LOW PRIORITY LOCATED THE FRONT OF OPEN DOOR BAPTIST CHURCH ON DRY RIDGE RD Referred to Florence District 3/07/06. Installed fiber guy break & pole tag / Hacker |
| CG124LINE42 | 864624 | Guys | Missing guy guard | 03/01/2006 | 20G-187C | ı | 44725 03/01/06 08:07AM SMART Work Request generated from workorder 862814 step 3.10. 1 - LOW PRIORITY LOCATED AT 1325 DRY RIDGE RD TROUBLE 3/3/06 TCP |
| CG124LINE42 | 864623 | Guys | Missing guy guard | 03/01/2006 | 20G-186E | ľ | 44725 03/01/06 08:04AM SMART Work Request generated from workorder 862814 step 3.10. 1 - LOW PRIORITY LOCATED AT DRY RIDGE RD & ASSEMBLY CHURCH RD TROUBLE 3/3/06 TCP Referred to Florence District 3/07/06. Installed guy guard / Hacker |
| CG124LINE42 | 864622 | Guys | Improper isolation | 03/01/2006 | 20G-186E | l | 44725 03/01/06 08:03AM SMART Work Request generated from workorder 862814 step 3.10. 1 - LOW PRIORITY LOCATED AT DRY RIDGE RD & ASSEMBLY CHURCH RD Referred to Florence District 3/07/06. Installed fiber guy break / Hacker |
| CG 1241.1NE42 | 864621 | Guys | Missing guy guard | 03/01/2006 | Î5G-214E | 1 | 44725 03/01/06 08:02AM SMART Work Request generated from workorder 862814 step 3.10. 1 - LOW PRIORITY LOCATED ON THE SOUTH SIDE OF THE KENTUCKY STATE POLICE AT NEEDHAM LN & DIXIE HWY TROUBLE 3/3/06 TCP |
| C'G124LINE42 | 864620 | Guys | Missing guy guard | 03/01/2006 | 15G-218E | j | 44725 03/01/06 08:00AM SMART Work Request generated from workorder 862814 step 3.10. 1 - LOW PRIORITY LOCATED ACROSS FROM KY STATE POLICE AT NEEDHAM LN & DIXIE HWY TROUBLE 3/3/06 TCP Referred to Florence District 3/07/06. Referred to Florence District 3/07/06. Installed guy guard / Hacker |
| CG124LINE42 | 864619 | Guys | Improper isolation | 03/01/2006 | 15G-218E | 1 | 44725 03/01/06 07:59AM SMART Work Request generated from workorder 862814 step 3.10. 1 - LOW PRIORITY LOCATED ACROSS FROM KY STATE POLICE AT NEEDHAM & DIXIE HWY Referred to Florence District 3/07/06. Installed fiber guy break / Hacker |
| CG124LINE42 | 864618 | Miscelluneous Pole Problems | Missing pole tag | 03/01/2006 | 15G-199F | l | 44725 03/01/06 07:57AM SMART Work Request generated from workorder 862814 step 3.10, 1 - LOW PRIORITY MISSING RADIAL TAG [15G-199] ON POLE LOCATED IN R.O.W. IN REAR OF 210 SPILLMAN TROUBLE 3/3/06 TCP Referred to Florence District 3/07/06. Installed radial tag & phase ID tags / Hacker |
| ('G124LINE42 | 864617 | Miscellaneous Pole Problems | Missing cap or canister | 03/01/2006 | 15G-199E | 1 | 44725 03/01/06 07:56AM SMART Work Request generated from workorder 862814 step 3.10, 1 - LOW PRIORITY DAMAGED CANISTER ON RADIAL POLE FOR URD 1175 LOCATED IN R.O.W. IN REAR OF 210 SPILLMAN Referred to Florence District 3/07/06. Cannister OK; Removed remains of old cannister / Hacker |
| CG124LINE42 | 864616 | Güys | Missing guy guard | 03/01/2006 | 15G-198E | l | 44725 03/01/06 07:54AM SMART Work Request generated from workorder 862814 step 3.10. I - LOW PRIORITY LOCATED IN R.O.W. IN THE REAR OF 210 SPILLMAN TROUBLE 3/3/06 TCP |
| | | | | | | | 44725 03/01/06 07:53AM SMART Work Request |

| CG124LINE42 | 844545 | Trouble Call System | N/A | 12/14/2005 | | 2835 Dixie Hwy, CRITTENDEN PolcHit-H ad35/5 stub pole across from 5g-285 needs replacedcatv, tele and cinergy dg cic, ok tempodixie hwy n/o shady ln CRITTENDENgrant co has reportprop dam sentwill need 2 flaggers replaced pole |
|-------------|---------|------------------------|-----|------------|-------|---|
| CG124LINE42 | 832404 | Trouble Call System | N/A | 09/29/2005 | 10G-8 | 3785 Dixie Hwy,DRY RIDGE MetrBurn-H def ma 10g-8e ok tempo will require new 18in ma 3785 Dixie Hwy,DRY RIDGE |
| CG124LINE42 | 806074 | Trouble Call System | N/A | 05/23/2005 | | 255 Spillman Dr Lot. 16, DRY RIDGE DmgdEqip-H 265 spillman fibre ped needs replaced, ok tempoadj trans 15g-8unknown prop dam replaced pedestal |
| CG124LINE42 | 80578.1 | Trouble Call System | N/A | 05/20/2005 | | 230 Eagle Ridge Dr,CRITTENDEN DigInWr-H def cust owned serran 125' #2 tri tempo from pad 10g-326cust signed paper for temp ser onlywill need to replace bushings in 100 kva pad 10g-326, bushings frozen prauch has |

REQUEST NO. 6.1195 DATE 9-5-62

BUDGET NO. 706

OVHD. CLASS 2

DEPARTMENT Electrical

COMPANY the inion light, heat and fover

DATE ISSUED Fob 18 3063

LOCATION original property east and wast of Unio, 25, Various

mostation to ry ldere bubstation

FOR ACCTG, DEPT. USE ONLY

93.00

DESCRIPTION OF PROJECT

convert existing 2-h ky feeders to 7-2/13 ky feeders by costing 217,000 of 22 hade to conductor and various

a sud disconnect smilehose

ACCT. NO. AND TITLE 1-35/10. 1-35/50. 1-35/57. 1-36/31

TAX DISTRICT 18 0001 010-3 00-5 RATE AREA 0300 COUNTY BOOKS Great, Aento

| | | | ESTIMATED EXPENDITUR | ES | | |
|-------------|---|--|--|-----------------|--|------------|
| ITEM NO. | | DESCRIPTION | | MATERIAL | LABOR | TOTAL |
| - 1 | | gui maent r | | 21,600 | 11,710, | |
| | _ 1, 53 i. <u>5</u> | | TO CONSTRUCTION | 10.230 | 7.060 | |
| | 1 11 1 | , | DATE | 4.500 | 600. | |
| | | ri ve | REC. FOR CLOSE | LITA KACA | 3.450 | |
| | | | REC. FOR CLOSE DATE SEP 30 '64 GEN. GEF (100) | | | |
| | | | GEN. OFFICE IT | 13 450, | 10.,900 | |
| | 1 | | WX. REC. / // | 1.3.74107 | 3377777 | |
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UPON COMPLETION OF WORK THE REVERSE SIDE IS TO BE FILLED IN AND ORIGINAL COPY FORWARDED TO GENERAL OFFICE

COMPLETION REPORT

| | | | | 7.0 | |
|------------------------|------------------------------------|--|------------------|-------|-------------|
| LIST MATERIAL TRANSFER | R NUMBERS USED FOR MATERIAL INSTAL | LLED, RECLAIMED OR | ABANDONED: | | |
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| DATE WORK STARTED | 12-9-63 | _19 DATE: PL | ACED IN SERVICE | 9-22- | & Y |
| PREPARED BY | E.PEHICK O. Bosion | | FINAL COMPLETION | 9-22 | _1,64. |
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FOR LINE WORK ON ESTABLISHED STREET OR HIGHWAY, INDICATE ON SKETCH THE DISTANCE OF LINE FROM ADJOINING PROPERTY, ALSO TYPE OF PAVEMENT IF STREET IS PAYED.

FINAL ANALYSIS of COMPLETED WORK ORDERS

| LOCATION: LI.S. 25- | Yaroun Suc | ta to Duy! | Pido | Sul Sta | |
|---------------------|------------|------------|------|---------|--|
| DATE WORK COMPLETED | 9-22-64 | WODK OPDED | | 28.659 | |

REPORT PREPARED BY

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|-------------|---------------------------|---------------|--|-----|-------|---|----------|
| ITEM No. | MATERIAL KIND and SIZE | REQUISITIONED | CREDITED (Excess) | 177 | | | |
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| | E Solarice | 41 | | | | | |
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FINAL ANALYSIS of COMPLETED WORK ORDERS

| LOCATION: LI.S. 25- P. | P. Eard 9 Wur | £ | *************************************** | |
|------------------------|---------------|---------------|---|--|
| DATE WORK COMPLETED | 9-22-64 | WORK ORDER No | 28559 | |

REPORT PREPARED BY J.C.R.

| ITEM No. | MATERIAL KIND and SIZE | AMOUNT OF MATERIAL | | D | DO NOT USE | | |
|-------------|-------------------------------|--------------------|-------------------|---|------------|----------|--|
| | | REQUISITIONED | CREDITED (Excess) | | | | |
| | # 4/0 A.C.S.R. | 62,255# | | | | | |
| - 1 - 1 | 4 H.D. B.C. | 1 0100# | | | | | |
| | 2 H.D. B.C. | 11 499# | | | | | |
| | 25. D. B.C. | 11.5 | | | | | |
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| | 4 Oly Triplet | 308 [#] | | | | | |
| | 4 Pols | 2935# | ļ | | | | |
| | 2 Page | 5763# | | | | | |
| | 0 | | | | | | |
| | #2-1/c-13K.V. L.C. Coble | 490' | | | - | | |
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FINAL ANALYSIS of COMPLETED WORK ORDERS

| LOCATION: Rf 25 at Conference School DATE WORK COMPLETED 2-28-69 WORK ORDER No. 79559 REPORT PREPARED BY | | | | | | | | | | | |
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NOTE: Item number, list of materials, and amounts requisitioned or credited are to be recorded in the District Office, the last four columns are for use by the Inventory Section.

MAKE REPORT IN DUPLICATE, FIRST COPY TO ACCOMPANY THE COMPLETED WORK-ORDER, SECOND COPY TO BE FILED IN THE DISTRICT OFFICE.



DUKE ENERGY CORPORATION 139 East Fourth Street, ATII 25 P.O. Box 960 Cincinnati, OH 45201-0960 Telephone: (513) 419-1831 Facsimile: (513) 419-1826

James E. McLean
Assistant General Counsel
E-mail: James.McLean@duke-energy.com

November 18, 2009

Jeffrey C. Moore Electric Utility Investigator Division of Engineering Commonwealth of Kentucky Public Service Commission 211 Sower Boulevard P.O. Box 615 Frankfort, Kentucky 40602-0615

RECEIVED

NOV 2 0 2009

PUBLIC SERVICE
COMMISSION

RE: Electrical contact – Hwy 25 (Crittenden, Kentucky) Crittenden Substation 124 conductor clearance

Dear Mr. Moore:

Per your recent request, I am enclosing documents pertaining to the above-mentioned matter. Enclosed are:

1. Duke Energy's Investigation Report (Duke-000093 to Duke-000105)

2. August 7, 2009 Letter from Jeffrey Dierker

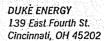
Please let me know if you require anything further. Thank you for your consideration.

Very truly yours,

James E. McLean, Esq.

JEM/sjr

Enclosures





VIA TELEFAX (502) 564-1582 AND ORDINARY MAIL

August 7, 2009

Mr. Jeffrey C. Moore Electric Utility Investigator Division of Engineering Commonwealth of Kentucky Public Service Commission 211 Sower Boulevard P.O. Box 615 Frankfort, Kentucky 40602-0615

Re: Electrical Contact - Hwy. 25 (Crittenden, Kentucky)

Crittenden Substation 124 conductor clearance

Dear Mr. Moore:

We contacted you on July 27, 2009 at 7:38 p.m. to inform you of an electrical contact which involved two employees from Showplace Landscaping located in Crittenden, Kentucky where one employee was fatally injured. On July 29, 2009 at 10:00 a.m. Gary Lynn and William Cobb, Duke Energy EHS Professionals, met you at the accident site. At the time of our investigation starting on July 27, 2009 the deceased worker, dump truck and bobcat had already been moved from the accident site at the request of Grant County officials.

Our preliminary inquiries determined that Grant County deputies were called to Showplace Landscaping just after 5:30 p.m. to find Kenneth Tyler Cummins dead at the scene. Grant County investigators said Kenneth Tyler Cummins was helping other employees unload a dump truck bed that was parked under high voltage power lines with the bed fully raised. When the truck moved forward, the bed made contact with the power lines. The dump truck became energized causing an electrocution to the employee who had made contact with the dump truck.

At your request, Duke Energy agreed to provide you with information which includes documentation from the Grant County Sheriff Department and Coroner's office. As of today, we have only received information from the Grant County Sheriff Department. The Grant County Coroner's office has not released any information to us at this time. On the matter of additional information, we will provide you with the following documentation that we have available today.

- 1. Copy of Grant County Sheriff Department report.
- 2. Photographs of damaged wire (included in PowerPoint).
- 3. Height measurements on the repaired line (included in PowerPoint).
- 4. Height measurements prior to incident (included in PowerPoint).
- 5. Outage report for the incident on July 27, 2009.

The following information listed below will be mailed to you under separate cover.

- 1. All utility and sheriff department photographs will be included in the mail out packet.
- 2. System inspection records on the facilities per your request.
- 3. Maintenance records on the breaker at Crittenden Substation 124.
- 4. Any recent work performed on the system within the last 2-years.
- 5. Span length dimensions.
- 6. Original installation records and any modifications which are currently available.

Installation drawings and prints will be released after confidential treatment has been obtained.

We are stilling looking through our records for additional installation records in regards to the 7.2kV line for pole numbers 10G-85E and 10G-86E.

In addition, you notified us of potential clearance violations involving the height requirements on a 7.2kV phase conductor (west line) located along U.S. 25 easement located between pole numbers 10G-85E and 10G-86E, and 5G-345E and 5G346E crossing Route 2942.

If you have any questions or concerns, please do not hesitate to contact me at (513) 287-1234.

Sincerely,

effery P. Dierker

Duke Energy Manager EHS Field Support

TOOON OULLSONS IN SONT
Type of Accident: Electrical Contact

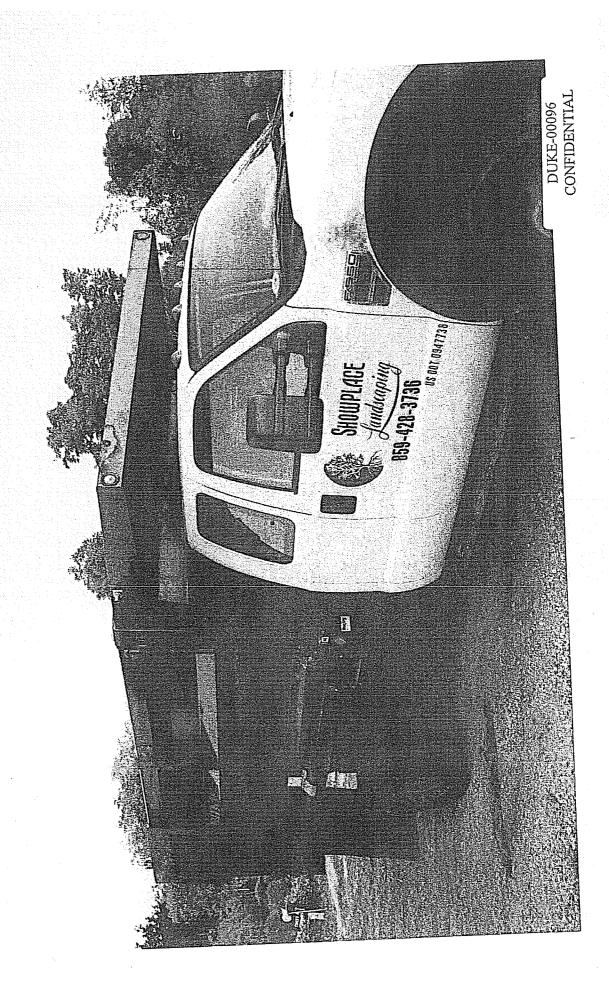
Date of Accident: 7/27/09

Time: Approximately 5:30 p.m.

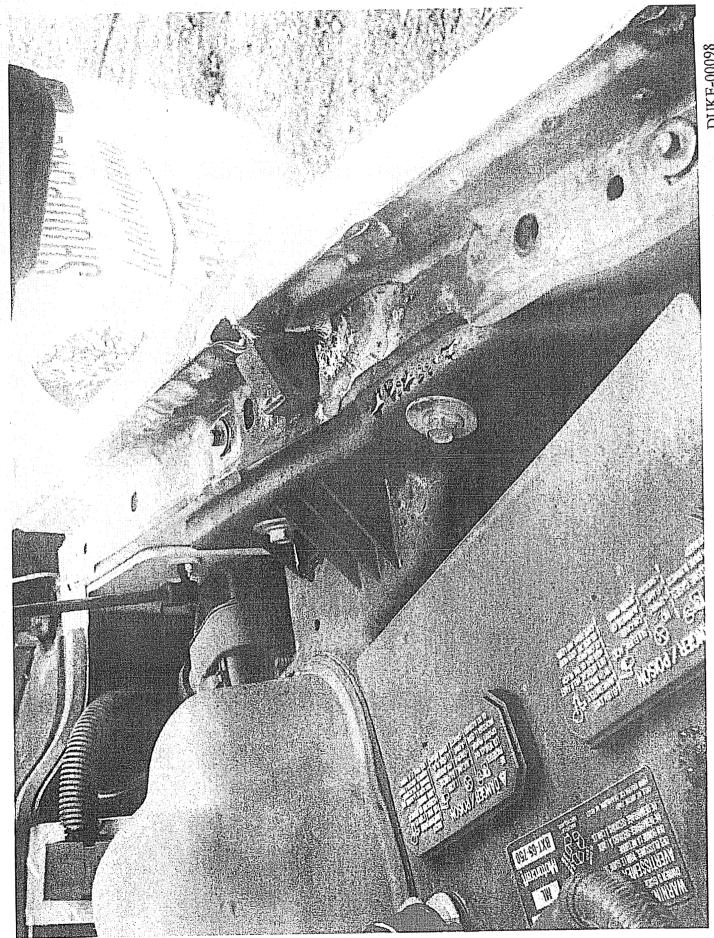
Location: Crittenden, Kentucky

Weather: Sunny, 82 degrees

DUKE-00095 CONFIDENTIAL



DUKE-00097 CONFIDENTIAL

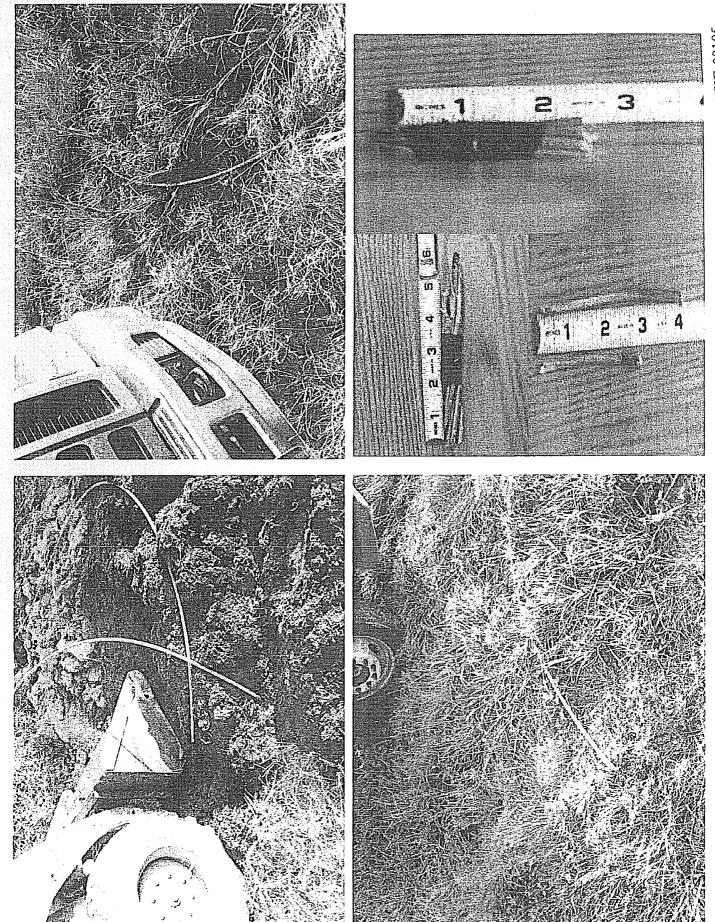


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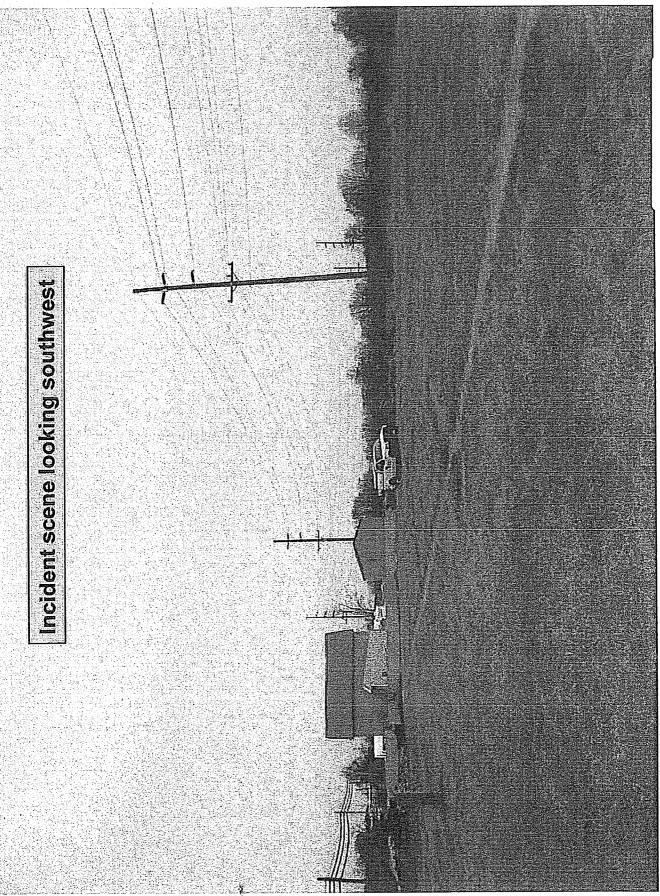
DUKE-00102

DUKE-00103 CONFIDENTIAL



TOOON DOLL WONDINGS WALL TOOPY COLUMN TOOPY Tied Alferation

Location: 2945 Dixie Highway, Crittenden, KY Date of Alteration: September 2nd, 2009 Type of Incident: Field alteration



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DUKE -00108 CONFIDENTIAL

DUKE -00109 CONFIDENTIAL

DUKE -00111 CONFIDENTIAL

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Cited Violations (NESC)

232. Vertical Clearances of Wires, Conductors, Cables, and Equipment Above Ground, Roadway, Rail, or Water Surfaces

- B. Clearance of Wires, Conductors, Cables, Equipment, and Support Arms Mounted on Supporting Structures
 - 1. Clearance to Wires, Conductors, and Cables

The vertical clearance of wires, conductors, and cables above ground in generally accessible places, roadway, rail, or water surfaces, shall be not less than that shown in <u>Table 232-1</u>.

Table 232-1 (in feet)

Vertical Clearance of Wires, Conductors, and Cables Above Ground, Roadway, Rail, or Water Surfaces²⁵

(Voltages are phase to ground for effectively grounded circuits and those other circuits where all ground faults are cleared by promptly de-energizing the faulted section, both initially and following subsequent breaker operations. .See the definitions section for voltages of other systems. See Rules 232B1, 232C1a, and 232D4.)

| | Insulated communication of conductors and cable; messengers, overhead shield/surge-protection wires, grounded guys; ungrounded guys exposed to 0 to 300 VIII on the conductors meeting Rule 230 FI; supply cables meeting Rule (fi) | Nominsulated communication in conductors; supply cables of 0 to 750 V meeting Rules 22002 or 23003 (ft) | Supply cables over 750 V meeting Rules 25062 or 25063; open Supply conductors; 0 to 750 V8; ungrounde d guys exposed to over 500 V to 750 V/(ft) | Open supply conductors, over 750 V to 22 kV, ungrounder d guys exposed to 750 V to 22 kV/(ii) | conduction of the conduction o | ined ond ed ed ined ined ined ined ined ined i |
|--|---|--|--|---|--|--|
| 1. Track rails of railroads (except electrified railroads using overhead trolley conductors) ^{2,16} | 23.5 | 24.0 | 24.5 | 26.5 | 22.04 | 22.04 |
| 2. Roads, streets, and other areas subject to truck traffic ²³ | 15.5 | 16.0 | 16.5 | 18.5 | 18.0⁵ | 20.0⁵ |
| 3. Driveways, parking lots, and alleys ²³ | 15.57, 13 | 16.07, 13 | 16.57 | 18.5 | 18.0 ⁵ | 20.0 ⁵ |
| 4. Other land traversed by vehicles, such as cultivated, grazing, forest, orchard, etc. ²⁶ | 15.5 | 16.0 | 16.5 | 18.5 | | |
| 5. Spaces and ways subject to pedestrians or restricted traffic only ⁹ | 9.5 | 12.0 ^s | 12.58 | 14.5 | 16.0 | 18.0 |
| 6. Water areas not suitable for sailboating or where sailboating is prohibited ²¹ | 14.0 | 14.5 | 15.0 | 17.0 | | |
| 7. Water areas suitable for sailboating including lakes, ponds, reservoirs, tidal waters, rivers, streams, and canals with an unobstructed surface | | | | | | |

.

| area of ^{17, 18, 19, 20, 21} | | | | | | | |
|--|-----------|--------|-----------------|------|-------|-------|--|
| a. Less than 20 acres | 17.5 | 18.0 | 18.5 | 20.5 | | | |
| b. Over 20 to 200 acres | 25.5 | 26.0 | 26 . 5 . | 28.5 | | | |
| c. Over 200 to 2000 acres | 31.5 | 32.0 | 32.5 | 34.5 | | | |
| d. Over 2000 acres | 37.5 | 38.0 | 38.5 | 40.5 | | | |
| 8. Established boat ramps and associated rigging areas; areas posted with sign(s) for rigging or launching sail boats Clearance above ground shall be 5 ft greater than in 7 above, for the type of water areas served by the launching sites | | | | | | | |
| Where wires, conductors, or cables run along and within the limits of highways | | | | | | | |
| or other road rights-of-way but do not overhang the roadway | | | | | | | |
| 9. Roads, streets, or alleys | 15.524 | 16.0 | 16.5 | 18.5 | 18.0⁵ | 20.0⁵ | |
| 10. Roads where it is unlikely that vehicles will be crossing under the line | 13.510,12 | 14.010 | 14.510 | 16.5 | 18.0⁵ | 20.0⁵ | |

- ¹ Where subways, tunnels, or bridges require it, less clearance above ground or rails than required by Table 232–1 may be used locally. The trolley and electrified railroad contact conductor should be graded very gradually from the regular construction down to the reduced elevation.
- ² For wires, conductors, or cables crossing over mine, logging, and similar railways that handle only cars lower than standard freight cars, the clearance may be reduced by an amount equal to the difference in height between the highest loaded car handled and 20 ft, but the clearance shall not be reduced below that required for street crossings.
- ³ Does not include neutral conductors meeting Rule 230E1.
- ⁴ In communities where 21 ft has been established, this clearance may be continued if carefully maintained. The elevation of the contact conductor should be the same in the crossing and next adjacent spans. (See Rule 225D2 for conditions that must be met where uniform height above rail is impractical.)
- ⁵ In communities where 16 ft has been established for trolley and electrified railroad contact conductors 0 to 750 V to ground, or 18 ft for trolley and electrified railroad contact conductors exceeding 750 V, or where local conditions make it impractical to obtain the clearance given in the table, these reduced clearances may be used if carefully maintained.
- ⁶ This footnote not used in this edition.

⁷ Where the height of a residential building does not permit its service drops(s) to meet these values, the clearances over residential driveways only may be reduced to the following:

| | (feet) |
|---|--------|
| (a) Insulated supply service drops limited to 300 | 12.5 |
| V to ground | |
| (b) Insulated drip loops of supply service drops | 10.5 |
| limited to 300 V to ground | |
| (c) Supply service drops limited to 150 V to | 12.0 |
| ground and meeting Rules 230C1 or 230C3 | |
| (d) Drip loops only of service drops limited to | 10.0 |
| 150 V to ground and meeting Rules 230C1 or | |
| 230C3 | |
| (e) Insulated communication service drops | 11.5 |

⁸ Where the height of a residential building does not permit its service drops(s) to meet these values, the clearances may be reduced to the following:

| | (feet) |
|---|--------|
| (a) Insulated supply service drops limited to 300 | 10.5 |
| V to ground | |
| (b) Insulated drip loops of supply service drops | 10.5 |
| limited to 300 V to ground | |
| (c) Supply service drops limited to 150 V to | 10.0 |
| ground and meeting Rules 230C1 or 230C3 | |
| (d) Drip loops only of supply service drops | 10.0 |
| limited to 150 V to ground and meeting Rules | |
| 230C1 or 230C3 | |
| (e) Insulated communication service drops | 11.5 |

⁹ Spaces and ways subject to pedestrians or restricted traffic only are those areas where riders on horses or other large animals, vehicles, or other mobile units exceeding a total height of 8 ft are prohibited by regulation or permanent terrain configurations, or are otherwise not normally encountered nor reasonably anticipated.

¹⁰ Where a supply or communication line along a road is located relative to fences, ditches, embankments, etc., so that the ground under the line would not be expected to be traveled except by pedestrians, the clearances may be reduced to the following values:

| • | (feet) |
|--|--------|
| (a) Insulated communication conductor and | 9.5 |
| communication cables | |
| (b) Conductors of other communication circuits | 9.5 |
| (c) Supply cables of any voltage meeting <u>Rule</u> | 9.5 |
| 230C1, supply cables limited to 150 V to | |
| ground meeting Rules 230C2 or 230C3, and | |
| neutral conductors meeting Rule 230E1 | |
| (d) Insulated supply conductors limited to 300 V | 12.5 |
| to ground | |
| (e) Guys | 9.5 |

¹¹No clearance from ground is required for anchor guys not crossing tracks, rails, streets, driveways, roads, or pathways.

¹² This clearance may be reduced to 13 ft for communication conductors and guys.

¹³ Where this construction crosses over or runs along alleys, driveways, or parking lots not subject to truck traffic this clearance may be reduced to 15 ft.

¹⁴Ungrounded guys and ungrounded portions of span guys between guy insulators shall have clearances based on the highest voltage to which they may be exposed due to a slack conductor or guy.

¹⁵Anchor guys insulated in accordance with <u>Rule 279</u> may have the same clearance as grounded guys.

¹⁶Adjacent to tunnels and overhead bridges that restrict the height of loaded rail cars to less than 20 ft, these clearances may be reduced by the difference between the highest loaded rail car handled and 20 ft, if mutually agreed to by the parties at interest.

¹⁷For controlled impoundments, the surface area and corresponding clearances shall be based upon the design high-water level.

¹⁸For uncontrolled water flow areas, the surface area shall be that enclosed by its annual high-water mark. Clearances shall be based on the normal flood level;if available, the 10-year flood level may be assumed as the normal flood level.

¹⁹The clearance over rivers, streams, and canals shall be based upon the largest surface area of any 1-mi-long segment that includes the crossing. The clearance over a canal,

river, or stream normally used to provide access for sailboats to a larger body of water shall be the same as that required for the larger body of water.

²⁰Where an overwater obstruction restricts vessel height to less than the applicable reference height given in <u>Table 232–3</u>, the required clearance may be reduced by the difference between the reference height and the overwater obstruction height, except that the reduced clearance shall be not less than that required for the surface area on the line–crossing side of the obstruction.

²¹ Where the US Army Corps of Engineers, or the state, or surrogate thereof has issued a crossing permit, clearances of that permit shall govern.

²² See Rule 2341 for the required horizontal and diagonal clearances to rail cars.

²³For the purpose of this Rule, trucks are defined as any vehicle exceeding 8 ft in height. Areas not subject to truck traffic are areas where truck traffic is not normally encountered nor reasonably anticipated.

²⁴Communication cables and conductors may have a clearance of 15 ft where poles are back of curbs or other deterrents to vehicular traffic.

²⁵The clearance values shown in this table are computed by adding the applicable Mechanical and Electrical (M &E) value of $\underline{\text{Table A-1}}$ to the applicable Reference Component of $\underline{\text{Table A2-a}}$ of Appendix A.

²⁶ When designing a line to accommodate oversized vehicles, these clearance values shall be increased by the difference between the known height of the oversized vehicle and 14 ft.

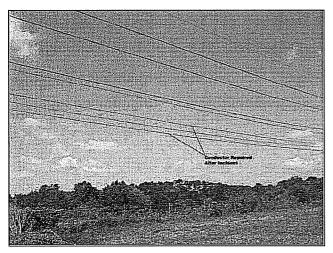


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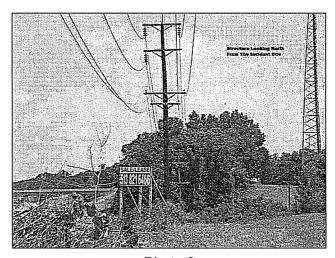


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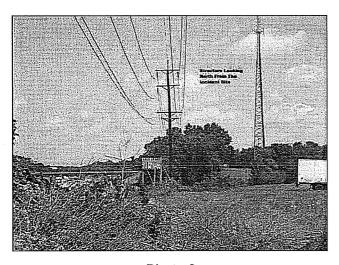


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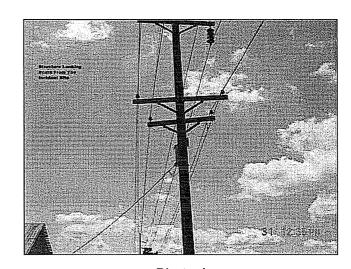


Photo 4



Photo 5

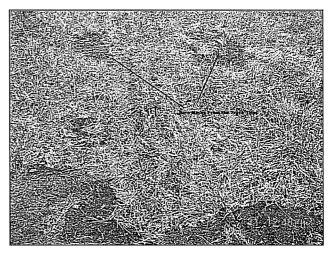


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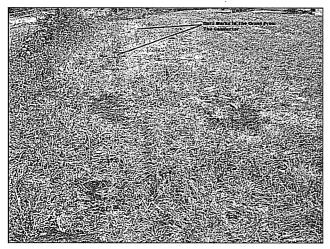


Photo 7



Photo 9

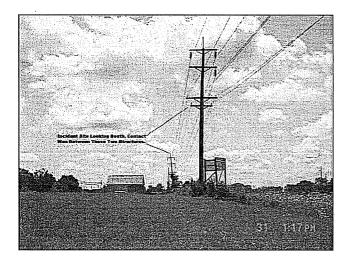


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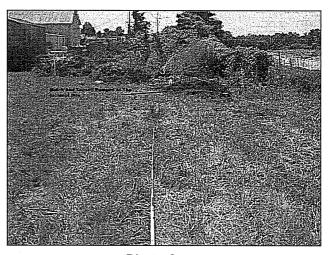


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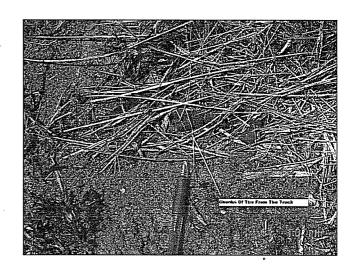


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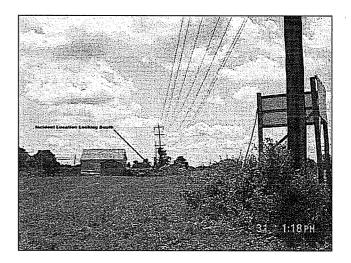


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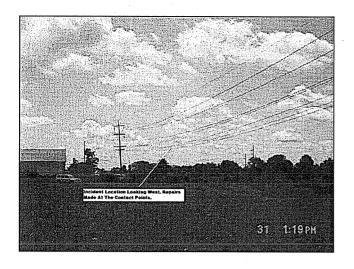


Photo 13



Photo 15

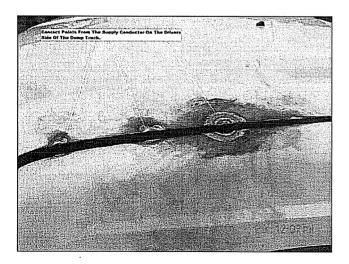


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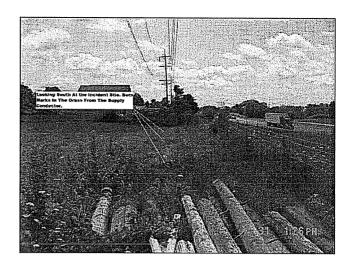


Photo 14



Photo 16

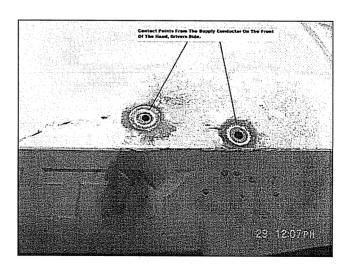


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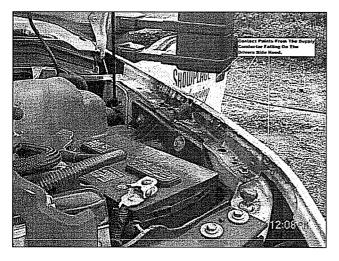


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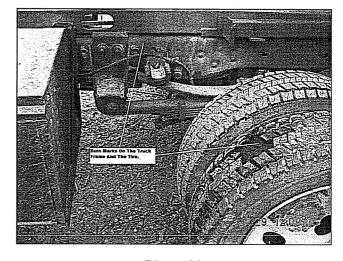


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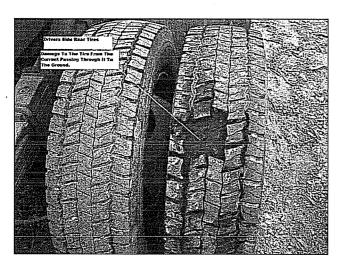


Photo 21



Photo 22



Photo 23

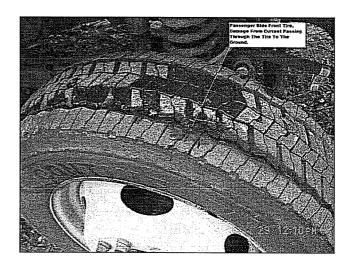


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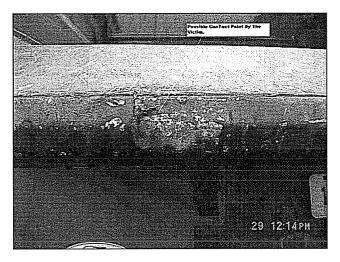


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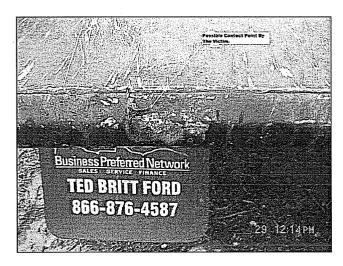


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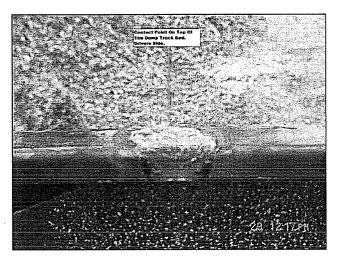


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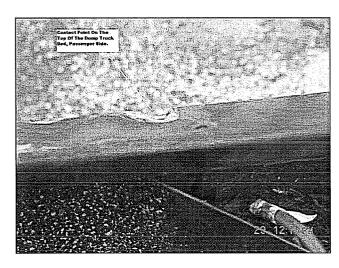


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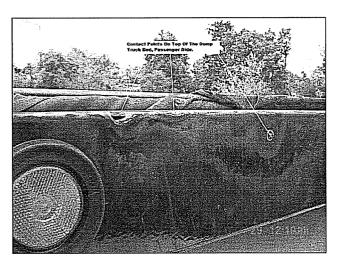


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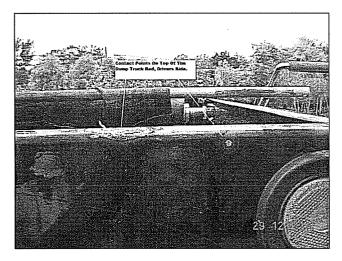


Photo 30

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