

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

INTER-COUNTY ENERGY)
COOPERATIVE CORPORATION)
_____) CASE NO. 2011-00280
)
ALLEGED FAILURE TO COMPLY WITH)
KRS 278.042)

ORDER

Inter-County Energy Cooperative Corporation ("Inter-County"), a Kentucky corporation which engages in the distribution of electricity to the public for compensation for lights, heat, power, and other uses, and which was formed 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 addition of the National Electrical Safety Code ("NESC").

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

¹ KRS 278.010(3)(a); KRS 279.210.

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 May 26, 2011, attached as the Appendix to this Order. The Report alleges that, on April 6, 2011, in Lancaster, Kentucky, within Garrard County, Justin Hubbard, an employee of Bluegrass Ag Distributors ("Bluegrass Ag"), sustained injuries after a portable grain auger he was attempting to move came into contact with Inter-County's 14,400 volt single-phase primary conductor.

According to Inter-County in their original seven-day report, two employees of Bluegrass Ag, Mr. Hubbard and Warren Gooch, were in the process of preparing to move feed from one grain bin to another when Mr. Hubbard made contact with the energized line. Mr. Hubbard was attempting to reposition a 48-foot-long grain auger at the time of the contact. Mr. Gooch, along with a Bluegrass Ag customer, Bobby Barnett, witnessed the incident. Statements were obtained by Inter-County of both witnesses and are attached to the Report. Mr. Hubbard was treated at the scene by Lancaster EMS personnel. Mr. Hubbard transported himself to Fort Logan Hospital in Stanford, Kentucky. According to witness Barnett, Mr. Hubbard had burns to his hands and to one foot.

Inter-County provided measurements of the incident site in its original seven-day report. According to Inter-County, the horizontal distance was measured directly under the point of contact at 10 feet, 9 inches to the nearest grain bin. On May 13, 2011, Inter-County filed an amended seven-day report. In that report, Inter-County states that, after meeting with the Commission inspector, Inter-County admits the primary line at this location should have been 8 feet higher or 4.5 feet farther away from the grain bin. Inter-County stated that changes have been made to bring the line into compliance. A description and map are included in Inter-County's amended seven-day report received at the Commission on May 13, 2011, and are attached to the Investigative Report.

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

1. 2007 NESC Section 23, Rule 234.F.2(a)—Clearance of Wires, Conductors, Cables, and Equipment from Buildings, Bridges, Rail Cars, Swimming Pools, and Other Installations--Clearances of Wires, Conductors, Cables, and Rigid Live Parts from Grain Bins--2. Grain Bins Loaded by Portable Augers, Conveyers, or Elevators (With No Wind Displacement) a. The clearance of wires, conductors, cables, and rigid live parts from grain bins that are expected to be loaded by the use of a portable auger, conveyer, or elevator shall be not less than the values illustrated in Fig 234-4b.

Based on its review of the Report and being otherwise sufficiently advised, the Commission finds that prima facie evidence exists that Inter-County 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 Inter-County's practices related to the construction, installation and repair of electric facilities.

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

1. Within 20 days of the date of this Order, Inter-County shall file with the Commission a written response to the allegation contained in the Report.

2. Inter-County shall appear on November 22, 2011, at 10:00 a.m., Eastern Standard Time, in Hearing Room 1 of the Commission's offices at 211 Sower Boulevard, Frankfort, Kentucky, for the purpose of presenting evidence concerning the alleged violation of KRS 278.042, and to show cause why it should not be subject to the penalties prescribed in KRS 278.990(1) for the alleged violation.


3. At the scheduled hearing in this matter, Inter-County shall also present evidence on the adequacy, safety, and reasonableness of its practices related to the construction, installation and repair of electric facilities as they relate to the facts of this case and whether such practices require revision.

4. The November 22, 2011, hearing shall be recorded by videotape only.

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

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

By the Commission

ENTERED 
AUG 18 2011
KENTUCKY PUBLIC
SERVICE COMMISSION

ATTEST:


Executive Director

Case No. 2011-00280

APPENDIX

APPENDIX TO AN ORDER OF THE KENTUCKY PUBLIC SERVICE
COMMISSION IN CASE NO. 2011-00280 **AUG 18 2011**



Steven L. Beshear
Governor

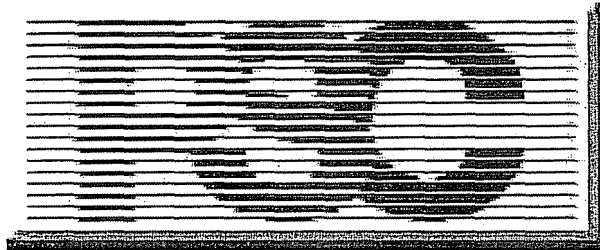
Leonard K. Peters
Secretary
Energy and Environment Cabinet

Commonwealth of Kentucky
Public Service Commission
211 Sower Blvd.
P.O. Box 615
Frankfort, Kentucky 40602-0615
Telephone: (502) 564-3940
Fax: (502) 564-1582
psc.ky.gov

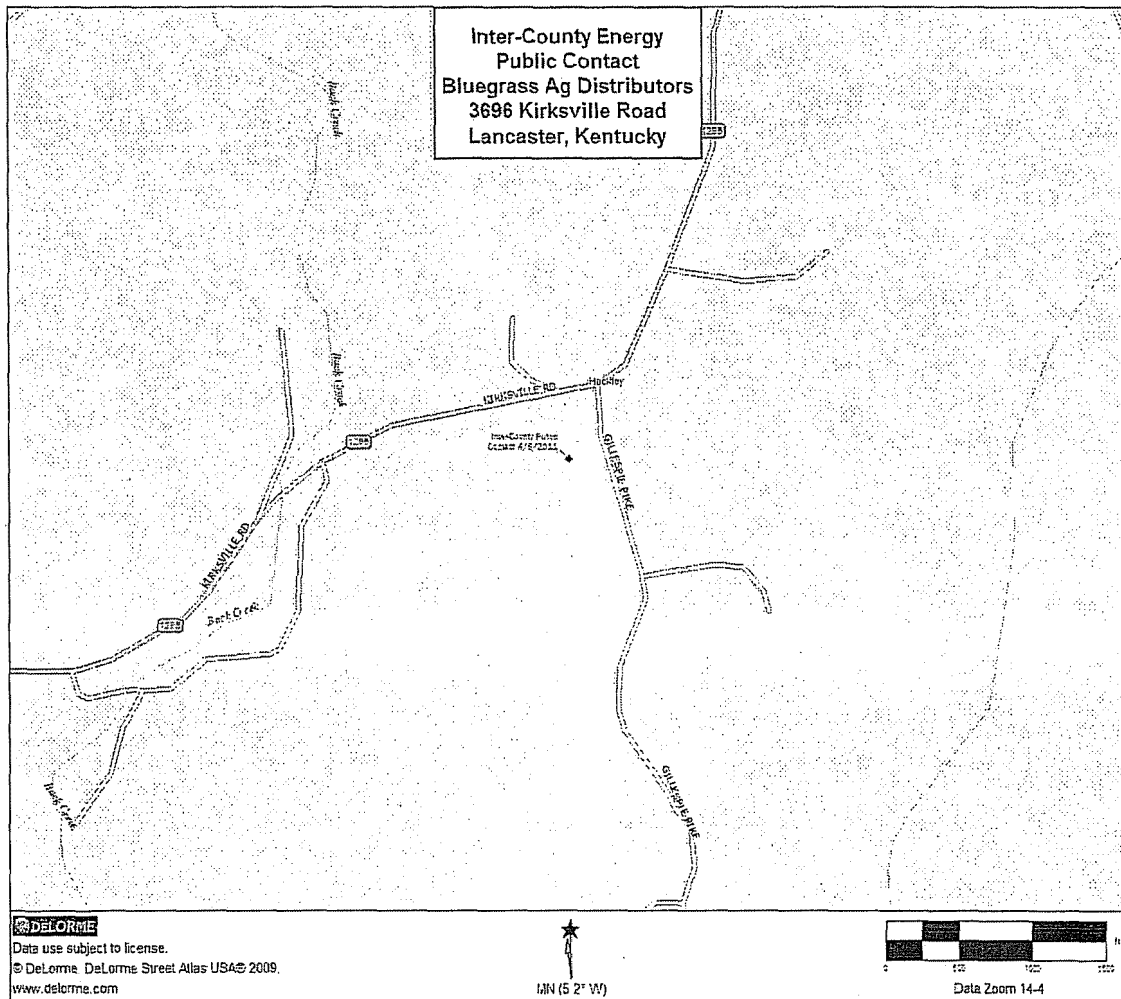
David L. Armstrong
Chairman

James W. Gardner
Vice Chairman

Charles R. Borders
Commissioner



INCIDENT INVESTIGATION ~ Staff Report



Utility: Inter-County Energy Cooperative

Reported By: Marvin Graham

Date Incident Occurred: April 6, 2011

Approximate Time: 1:06 PM

Date Utility Notified: April 6, 2011

Approximate Time: 1:10 PM

Date PSC Notified: April 6, 2011

Approximate Time: 2:28 PM

Date PSC Investigated: May 5, 2011

Approximate Time: 9:30 AM

PSC Investigator: Jeff Moore

Date Report Received: April 11, 2011

Incident Location: Bluegrass Ag Distributors, 3696 Kirksville Road, Lancaster, KY 40444

Incident Description:

On April 6, 2011 Inter-County Energy notified Public Service Commission (PSC) staff about a public contact on its system. According to Inter-County's seven-day report, an employee working at Bluegrass Ag made contact with Inter-County's 14,400 volt single-phase primary conductor. Two employees working for Bluegrass Ag (Warren Gooch and Justin Hubbard) were preparing to move a forty-eight foot portable grain auger from one grain bin to another near Inter-County's primary conductor. Warren Gooch, a witness at the incident site (see attachment A, page 10), stated that Mr. Hubbard was attempting to reposition the grain auger when it made contact with Inter-County's primary conductor. Another witness, Bobby Barnett, at the incident site stated that Mr. Hubbard had a burn on one hand and two more burns on his left foot (see attachment A, page 11). Mr. Hubbard was examined at the incident site by Lancaster EMS personnel. Mr. Hubbard wanted to return to work, but Mr. Prewitt (owner) insisted that Mr. Hubbard go to the hospital. Mr. Hubbard drove himself to the Fort Logan Hospital in Stanford, Kentucky.

Person(s) Injured: Justin Hubbard

Address: Unknown

Fatality: No

Age: Unknown

Employer: Bluegrass Ag

Injury: Burn on one hand and two more burns to his left foot.

Witness: Warren Gooch

Address: Unknown

Employer: Bluegrass Ag

Witness: Bobby Barnett

Address: 3720 Goshen Road
Stanford, KY 40484

Information From: Charlie Lewis, Safety and Loss Supervisor for Inter-County Energy Cooperative.

Marvin Graham, System Engineer for Inter-County Energy Cooperative.

Findings: PSC engineering staff reviewed Inter-County's seven-day report (see attachment A, page 6) where they stated the horizontal measurement between the Bluegrass Ag's grain bin and Inter-County's primary conductor was ten-foot nine-inches. Inter-County felt this met the minimum requirements of 2007 National Electric Safety Code (NESC) Sections 234F2 (a&b), Section 234C1, and table 234-1. PSC engineering staff reviewed Section 234F2 (a&b) of the 2007 NESC and disagreed with Inter-County's interpretation of Section 234F2 (a&b). A site visit was scheduled on May 5th, 2011 with Inter-County. During the incident site investigation the probable violation of the NESC was discussed with Inter-County personnel.

After this discussion Inter-County's personnel agreed to review the NESC again to confirm its statement in its seven-day report and/or issue an amendment to the seven-day report. Inter-County did issue an amendment (see attachment A, pages 15-24) to its seven-day report on the clearance between its primary conductor and Bluegrass Ag's grain bin. Inter-County states in its amendment (see attachment A, page 15) its primary conductor on the non-loading side of the grain bin was inside the clearance envelope the code requires. Refer to Inter-County's amended report that shows a diagram (attachment 1, page 17) of Inter-County's existing primary location and measurements from the grain bin, and the NESC required clearance envelope. According to the 2007 NESC Section 234F2 (a), and Figure 234-4b (see attachment E, page 62) Inter-County was not outside the minimum clearance envelope requirement by the NESC.

Probable Violation(s):

- 1.) 2007 NESC Section 23: Clearances
 234. Clearance of Wires, Conductors, Cables, and Equipment from Buildings, Bridges, Rail Cars, Swimming Pools, and Other Installations
 - F. Clearances of Wires, Conductors, Cables, and Rigid Live Parts from Grain Bins
2. Grain Bins Loaded by Portable Augers, Conveyers, or Elevators (With No Wind Displacement)
 - a. The clearance of wires, conductors, cables, and rigid live parts from grain bins that are expected to be loaded by the use of a portable auger, conveyer, or elevator shall be not less than the values illustrated in Fig 234-4b.

Attachments: A. Utility Seven-Day Report and Amendment to the Seven-Day Report
 B. Utility Photographs with Seven-Day Report
 C. Utility Photographs with Amendment
 D. PSC Photographs
 E. NESC Section 234 (F), (2), (a) and NESC Figure 234-4b

REPORT SUBMITTED BY:

Jeffrey C. Moore
Electric Utility Investigator
Engineering Division
Kentucky Public Service Commission

Signature: Jeffrey C. Moore

Date: 5/26/2011

REPORT REVIEWED BY:

John Shupp
Engineering Division
Kentucky Public Service Commission


Signature: John Shupp

Date: 5/26/2011

Attachment A

Utility Seven-Day Report and Amendment to the Seven-Day Report



A Touchstone Energy Cooperative 

RECEIVED

APR 11 2011

PUBLIC SERVICE
COMMISSION

April 7, 2011

Jeff Moore

Commonwealth of Kentucky
Public Service Commission
211 Sower Blvd.
PO Box 615 Frankfort, KY 40602-1582

Re: Bluegrass Ag Distributors public contact accident 4/6/2011

Mr. Moore,

Please allow this document to serve as the 7-day summary report as required by 807 KAR 5:006 Section 26-2.

The following is a list of events that transpired on April 6, 2011:

1:10 PM- Cooperative Response Center (CRC) notified Inter- County Energy employee Bob Denny that there was an outage at 453 Brewer Way, Lancaster, Ky.

1:20 PM- Bluegrass 911 Center informs Mr. Denny that there was a grain auger in the line at Bluegrass Ag Distributors in the area of the outage.

1:45- Dave Turner, Inter-County Energy Service Technician for Garrard Co, arrives at the scene to verify that the line is off and make the scene safe.

2:25- Charlie Lewis, Safety/Loss Control Supervisor, Chuck York, Construction Superintendant, and David Phelps, System Engineer, arrive to begin accident investigation.

2:28- Marvin Graham, Vice President of Operations and Engineering, notifies Jeff Moore of the Commission via email of the public contact accident.

Summary of Accident

At approximately 1:06 PM on April 6, 2011, Bluegrass Ag Distributors employees Warren Gooch and Justin Hubbard were in the process of preparing to move feed from one grain bin to another when Justin Hubbard made contact with an energized primary phase conductor energized at 14.4 kv. The OCR protecting this single phase line operated to lock-out.

Mr. Hubbard was attempting to reposition a 48 foot long grain auger at the time of the contact. Mr. Gooch, along with Bluegrass Ag customer Bobby Barnett, witnessed the accident.

Mr. Hubbard was treated at the scene by Lancaster EMS personnel. He then transported himself to Fort Logan Hospital in Stanford.

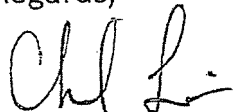
The height of the primary phase at the point of contact is 28 feet, 10.5 inches from the ground. The height of the primary neutral is 22 feet, 8.75 inches from the ground.

The grain auger height at its tallest point from ground level is 29 feet, 5.5 inches.

From directly under the point of contact, the horizontal distance was measured at 10 feet, 9 inches to the nearest grain bin. Per 2007 NESC Sections 234F2 (a&b), Section 234C1, and table 234-1, the required minimum horizontal clearance is 7 feet, 5 inches. Thus, the conductor was outside the 7 feet, 5 inch horizontal X 13 feet, 5 inch vertical clearance zone.

If you have any questions or concerns in regard to this matter, please feel free to contact me at your convenience.

Regards,



Charlie Lewis
Safety/Loss Control Coordinator

Inter County Energy

Public Accident

Document # _____

Date of Accident 4/6/2011 Time of Day 1:06 AM PM

Accident Location Bluegrass Ag Distributors
3696 Kirksville Rd- Lancaster, Ky. 40444

Phone Number 859-792-2168

Map Location _____

Describe accident

Vehicle Accident Contact Other

Victim was moving a portable 48 foot grain auger. He, along with a fellow employee, was in the process of moving grain from one grain bin to another. As he was pushing grain auger from the side, the top of the auger contacted an energized 14.4 kv line

What caused the accident

The injuries to the worker (Justin Hubbard) were caused when the top of the auger contacted the energized primary phase. The phase, at the location of the contact with the auger, was 28 feet, 10.5 inches from the ground level. The primary neutral at the location of the contact, was 22 feet, 8.75 inches from ground level. The height of the auger at it's highest point was 29 feet, 5.5 inches

Describe damage to equipment or property

No damage to Inter-County Energy equipment or lines. Grain auger that was involved in the accident had a flat tire due to electrical contact.

Were photos taken Yes No

Name of photographer David Phelps

Photographer's Address PO Box 87
Danville, Ky 40423

Phone # [REDACTED]

Victim # 1

Name of Victim Justin Hubbard

Describe Injury Victim it is believed but not verified that he had burns to his hands and one foot

Emergency First Aid administered at scene Yes No

Name of person administering First Aid Lancaster EMS

Address _____

Phone # 859-358-0251

How was victim transported

Squad Private Ambulance Police

Other Describe Mr Hubbard drove himself to Fort Logan Hospital

Time Victim Transported _____ AM PM

Time Victim Arrives At Hospital _____ AM PM

Name, address and phone number of hospital Fort Logan Hospital, Stanford, Ky 40484
606-365-1255

Attach "Additional Victim" sheets to form for additional victim information

Witness

Name of Witness See Attached

Witness Involved in Accident Yes No

Witness Address _____

Witness Phone # _____

If witness wasn't involved in accident what time did they arrive on the scene on scene AM PM

Attach additional witnesses statements to form. Use the "Additional Witness" form

Supporting Documents /Attachments

Document #/Name	<u>Witness Statement #1</u>	Document #/Name	_____
Document #/Name	<u>Witness Statement #2</u>	Document #/Name	_____
Document #/Name	<u>Aerial photo of area (labeled)</u>	Document #/Name	_____
Document #/Name	<u>map of area (labeled)</u>	Document #/Name	_____
Document #/Name	<u>initial outage report</u>	Document #/Name	_____
Document #/Name	_____	Document #/Name	_____
Document #/Name	_____	Document #/Name	_____
Document #/Name	_____	Document #/Name	_____
Document #/Name	_____	Document #/Name	_____

Space for diagram on next page

Staple all attachments to end of report

Attached

Diagram

Diagram doesn't have to be to scale, but measurements must be accurate.

Inter County Energy

Witness Statement #1

Document # _____

Date of statement 4/6/2011 Time of Day approximately 2:15 AM PM

Witness name Warren Gooch

Witness address Employee of Bluegrass Ag Distributors- 3696 Kirksville Rd
Lancaster, Ky 40444

Witness phone # [REDACTED]

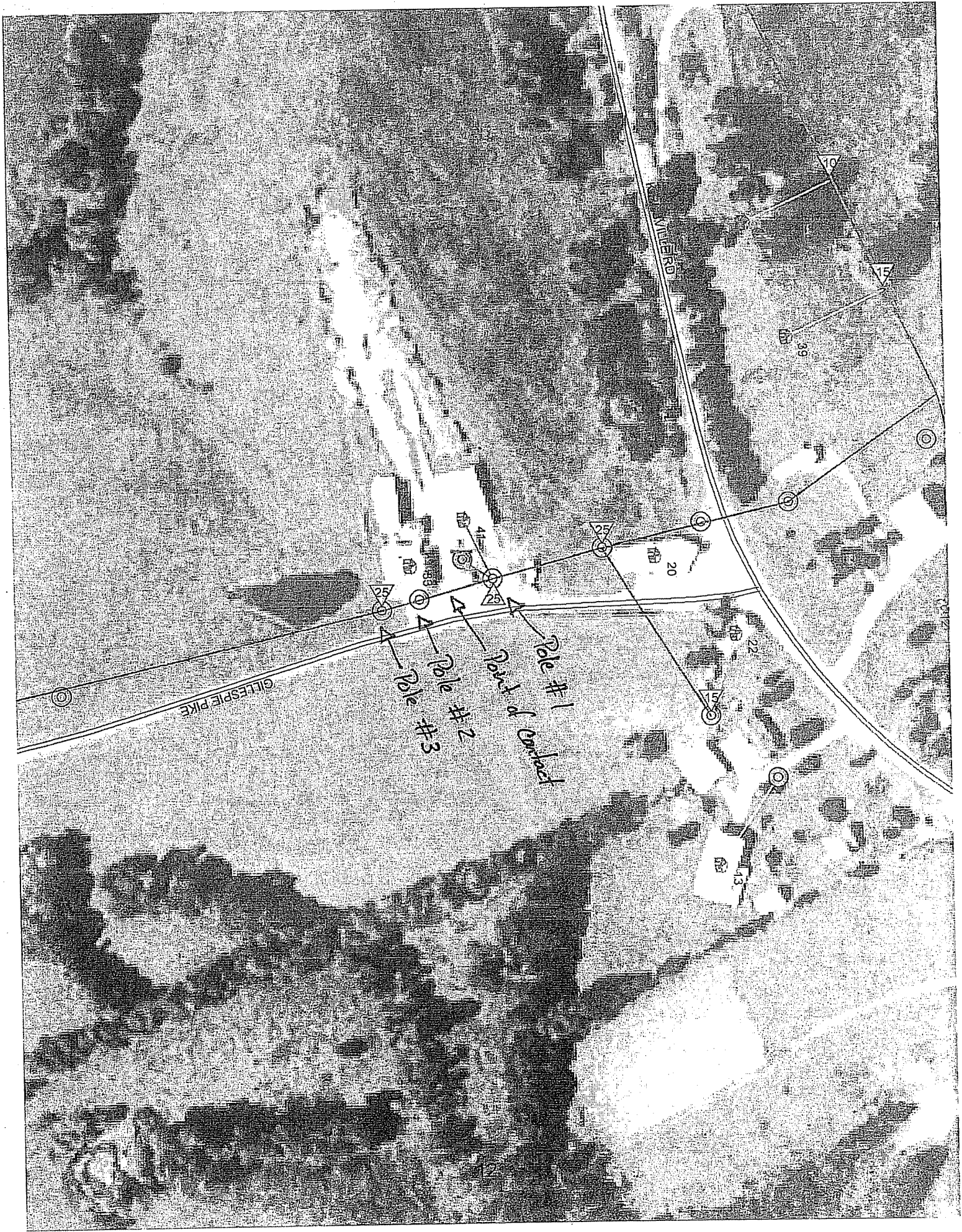
Was witness involved in Accident Yes No

If witness wasn't involved in accident what time did they arrive on the scene on scene AM PM

Please describe in your own words what happened and/or what you observed
Justin has been an employee for roughly 2 months. There was a lot going on with people needing to get feed. I was walking toward the grain auger to help Justin move it into position to move feed from one grain bin to another. Before I could reach him, he contacted the line and began to moan as an arc was happening at his feet. He had both hands on the auger. He collapsed and moaned and began to roll away. To use the word "addled" is an understatement to describe how he reacted. The arc happened a few more times after he had fallen and each time it would happen he would moan and roll further away. He did not lose consciousness and was standing 45 seconds after the accident occurred. After he was checked in the ambulance, he wanted to come back to work. Mr. Prewitt (owner) insisted that he go to the hospital.

I witnessed the events described above, and this is my complete statement

Witness name	_____	Date	_____
Witness signature	_____	Date	_____
Received by	_____	Date	_____
Signature	_____	Date	_____



MILNER RD

GILLESPIE PIKE

Point of Contact
Pole #1
Pole #2
Pole #3

41-3

20

39

22

13

5

55

9

9

9

12

9

9

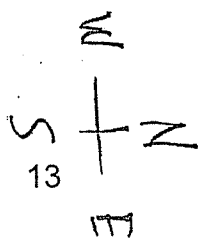
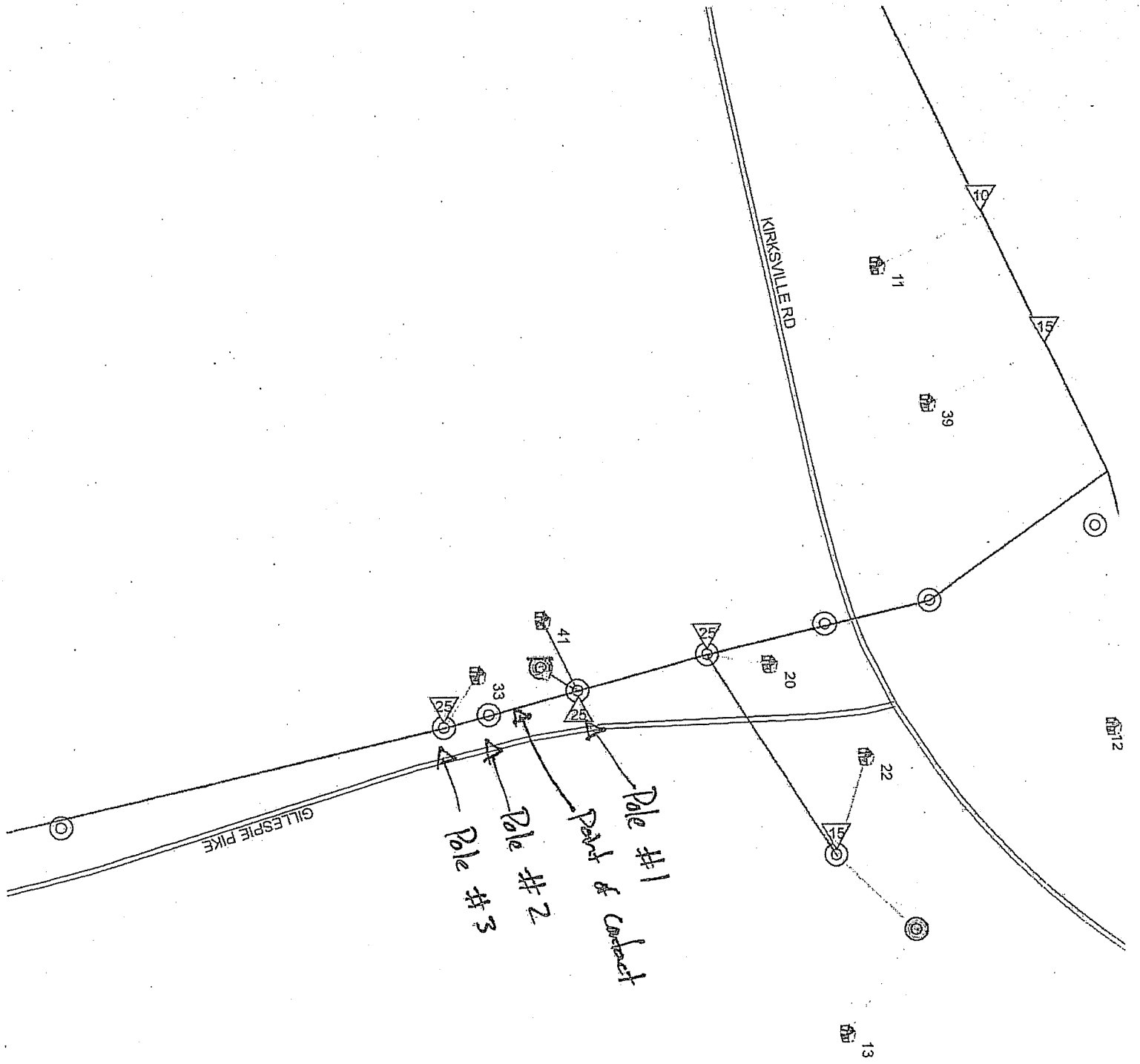
9

9

9

9

9



#6-David
 #11-Const.
 #13-Charlie
 #14-Chuck

DATE: 4-6-11

INTER COUNTY
 ENERGY COOPERATIVE
 DANVILLE, KY
OUTAGE REPORT

H: Employee Signature [Signature]

CONSUMER NAME John Beauchamp
 ADDRESS 453 Brewer Way
 F: ACCOUNT NO [Redacted]

A: OUTAGE REPORTED 1:10 AM/PM
 B: ARRIVED AT SITE 1:45 AM/PM
 C: SERVICE RESTORED 3:35 AM/PM

FIELD DATA

LINE DE-ENERGIZED AT

POLE#	SECTIONALIZING DEVICE#	TRANSFORMER#	MEMBER SEP#	OTHER - INDICATE UNDER REMARKS
	<u>OCR 188</u>	<u>21621 0012</u>	<u>77761-01</u>	

TYPE OF FAULT-Check one of the following

N	1: Transmission	2: Substation	3: Primary Line <input checked="" type="checkbox"/>	4: Dist. Xfmr	5: Secondary/ Service	6: Consumer Equip.			
---	-----------------	---------------	---	---------------	-----------------------	--------------------	--	--	--

FAULT ISOLATED BY-Check one of the following

O	1: Transmission Equip.	2: Substation Fuse	3: Substation Breaker	4: Primary Line Fuse	5: Primary Line Recloser <input checked="" type="checkbox"/>
	6: Primary Line Sectionalizer	7: Transformer Fuse	8: Transformer Breaker	9: Conductor Break	10: Loose Connection or Unknown

CAUSE OF OUTAGE-check one in each line where applicable

P	WEATHER	1: Weather Related	2: NOT Weather Related <input checked="" type="checkbox"/>						
Q	WEATHER CAUSE	1: Lightning	2: High Wind/ Tornado	3: Rain/Flood	4: Ice/Snow Loading	5: Freezing Temps	6: OTHER		
R	PLANNED FOR	1: Transformer Replacement	2: Pole Replacement	3: Line Conversions	4: Substation Maintenance	5: Line Equip. Maintenance	6: Line Test & Metering	7: OTHER	
S	VEGETATION	1: Trees/ Natural Causes	2: Vines	3: OTHER					
T	CAUSED BY ANIMALS	1: Cattle	2: Birds/ Squirrels	3: Horses	4: Other Wildlife	5: OTHER			
U	EQUIPMENT	1: Equip. Fault	2: Deteriorated Installation	3: Insulation Broke	4: Equipment Overload				
V	PUBLIC	1: Trees Cut Into Line	2: Cars/ Tractors	3: Antenna in Line	4: Sabotage	<u>Auger</u>			
W	Inter-Co PRACTICES	1: Faulty Construction	2: Operating Error ICE Employee	3: Operating Error ICE Contractor	4: Faulting Line Design	5: OTHER			
X	UNKNOWN	1: Unknown							

EQUIPMENT FAILURE-check one in each line where applicable


Y	TYPE EQUIP.	1: Substation Equip.	2: Conductor	3: Line Clamps	4: Pole	5: Transformer	6: Recloser	7: Sectionalizer	8: Insulator
Z	CAUSE OF FAILURE	1: Faulty Equip. Design	2: Deprecation	3: Faulty Installation	4: Damage V Others	5: Overload	6: Weather	7: Loose Connection	8: Insufficient Maintenance

OFFICE DATA

District	Substation Name	Circuit Name	Line Section # where Line De-Energized
	<u>LANCASTER</u>	<u>Brewer</u>	
# Consumers Interrupted	Duration Outage Minutes	Consumer Hours	kVA Interrupted
<u>69</u>			

REMARKS CONSUMER MADE CONTACT WITH PRIMARY PHASE. (GRAIN AUGER) AT BLEWETT'S Ag. Supply
RESET OCR 188. (Accident Scene). See C. Lewis + Mgmt.


INTER COUNTY
ENERGY COOPERATIVE

A Touchstone Energy Cooperative 

May 11, 2011

RECEIVED

MAY 13 2011

PUBLIC SERVICE
COMMISSION

Jeff Moore
Commonwealth of Kentucky
Public Service Commission
211 Sower Blvd.
PO Box 615 Frankfort, KY 40602-1582

Re: Bluegrass Ag Distributors public contact accident 4/6/2011

Mr. Moore,

Please allow this document to serve as an amendment to the 7-day summary report mailed to you on April 7, 2011 as required by 807 KAR 5:006 Section 26-2.

On the date of the public contact accident at Bluegrass Ag Distributors on Kirksville Road in Garrard County, the horizontal distance from a point directly under the energized phase conductor to the nearest point on the closest grain bin was 10 feet, 9 inches. The height of the primary phase was 28 feet, 10.5 inches. The tallest point of the grain bin located nearest the energized phase was 26 feet.

After meeting you at the accident location on May 5th and reviewing the NESC 2007 Edition, we have learned that our clearance for primary conductors on the non-loading side of a grain bin was inside the clearance envelope that the code requires. Please see the attached diagram explaining our previous clearances (attachment #1). In order to meet NESC code requirements under figure 234-4 (b), the primary at this location should have been 8 feet higher or 4.5 feet farther away from the grain bin. Since that time we have made changes to the primary line at this location to meet the required clearances under 234F2a(c), as this line is now de-energized.

Those changes are as follows: On May 6th, 2011, an Inter-County Energy crew changed the direction of source voltage for the customers who live beyond Bluegrass Ag Distributors on Gillespie Pike. This section of line is now fed from re-closer 12, which is located on Doty Lane. This re-closer feeds until you reach the location marked as "Pole #3" on the second attachment (attachment #2). This pole has a 50 kva transformer that feeds a Bluegrass Ag grain storage building. On the opposite side of the transformer stinger, there is now a 25 kv suspension insulator. Next to the insulator, there is a ground attached from the de-energized phase conductor to the system neutral.

Re-closer 188, which previously fed these homes on Gillespie Pike from Nina Ridge, is still in service. It feeds to the location on attachment #2 marked as "Pole #1". This pole has a 25 kva transformer that feeds another building on the Bluegrass Ag property. Beyond this pole, there is also a 25 kv suspension

insulator as well as a ground attached from the de-energized phase to the system neutral. Please reference the included photos.

On attachment #2, the distance between pole #1 and pole #3 is 179 feet. This conductor is now de-energized, grounded and serves as a support cable between the two feeds. This spans the entrance to the grain bin area where the contact accident occurred. The nearest energized primary conductor is now 65 feet, 10 inches away. This conductor is located on a non-loading side of the grain bin. When referencing figure 234-4 (b) of the NESC, we are outside of the 15 foot slope envelope and greater than 18.5 feet vertical distance to the primary.

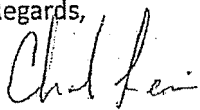
Also included are the following attachments:

- #3- A larger map of the accident location and the lines and equipment that serve the area.
- #4- A service order from the area around the accident from the 2010 line inspections. This service location is next to re-closer 188, which feeds Bluegrass Ag.
- #5- The inspection schedule for this map grid from 2007-2011. This grid was last inspected in 2010 and will be inspected again in 2012.
- Two photos of the same pole taken from each side. This pole is located on Gillespie Pike beyond the accident location. The first photo shows the birth mark designating 1965. This is the oldest legible birthmark I could find on this line section. The second photo shows the map location of the pole.

Per your request, after speaking with employees of Bluegrass Ag, the grain bins have been installed at this location since 2001.

If you have any questions or concerns in regards to this letter, please feel free to contact me at your convenience.

Regards,



Charlie Lewis
Safety/Loss Control Coordinator

Attachment #1

1" = 6'

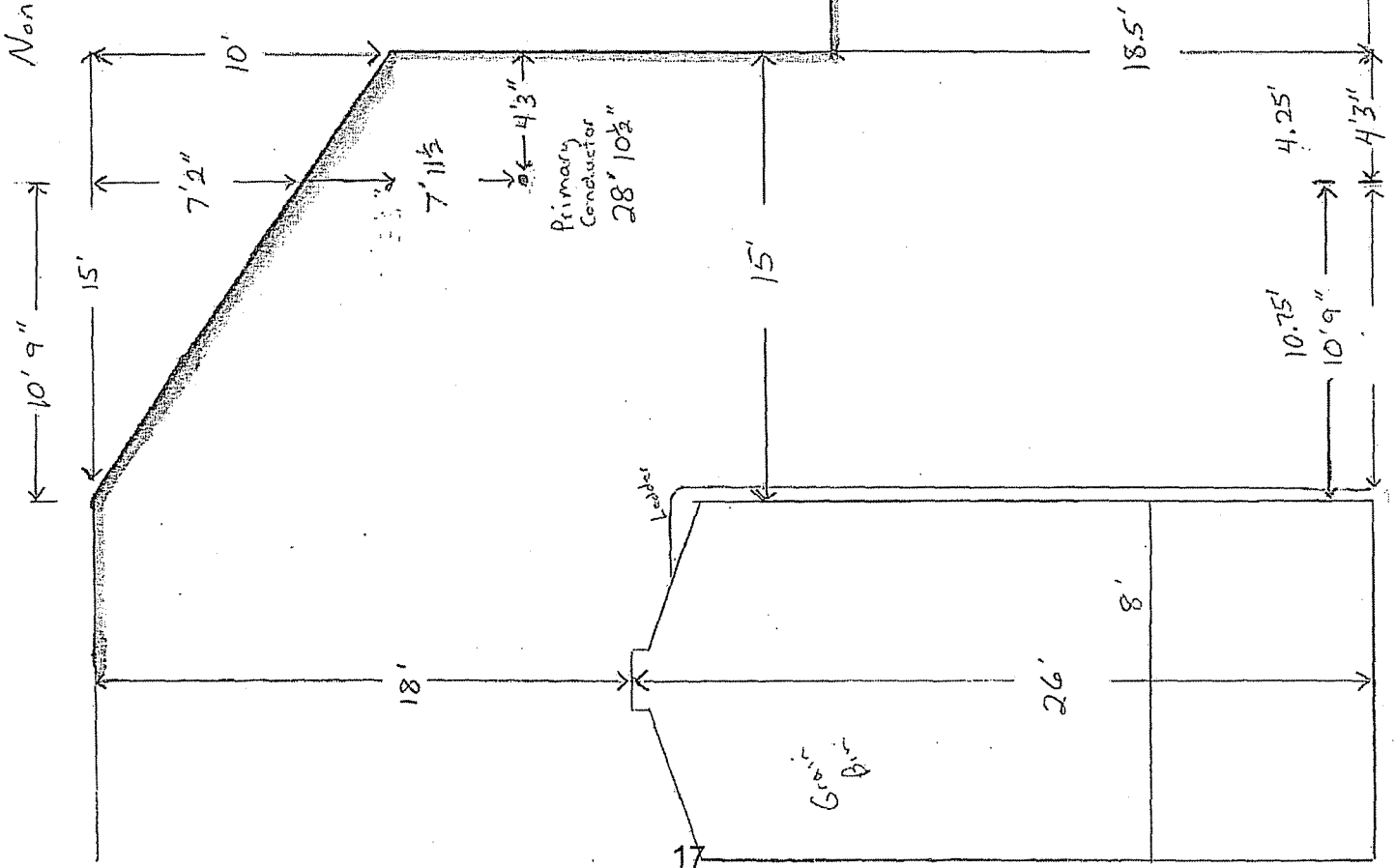
Non loading side clearance envelope

Assuming 6' radius of Grain Bin

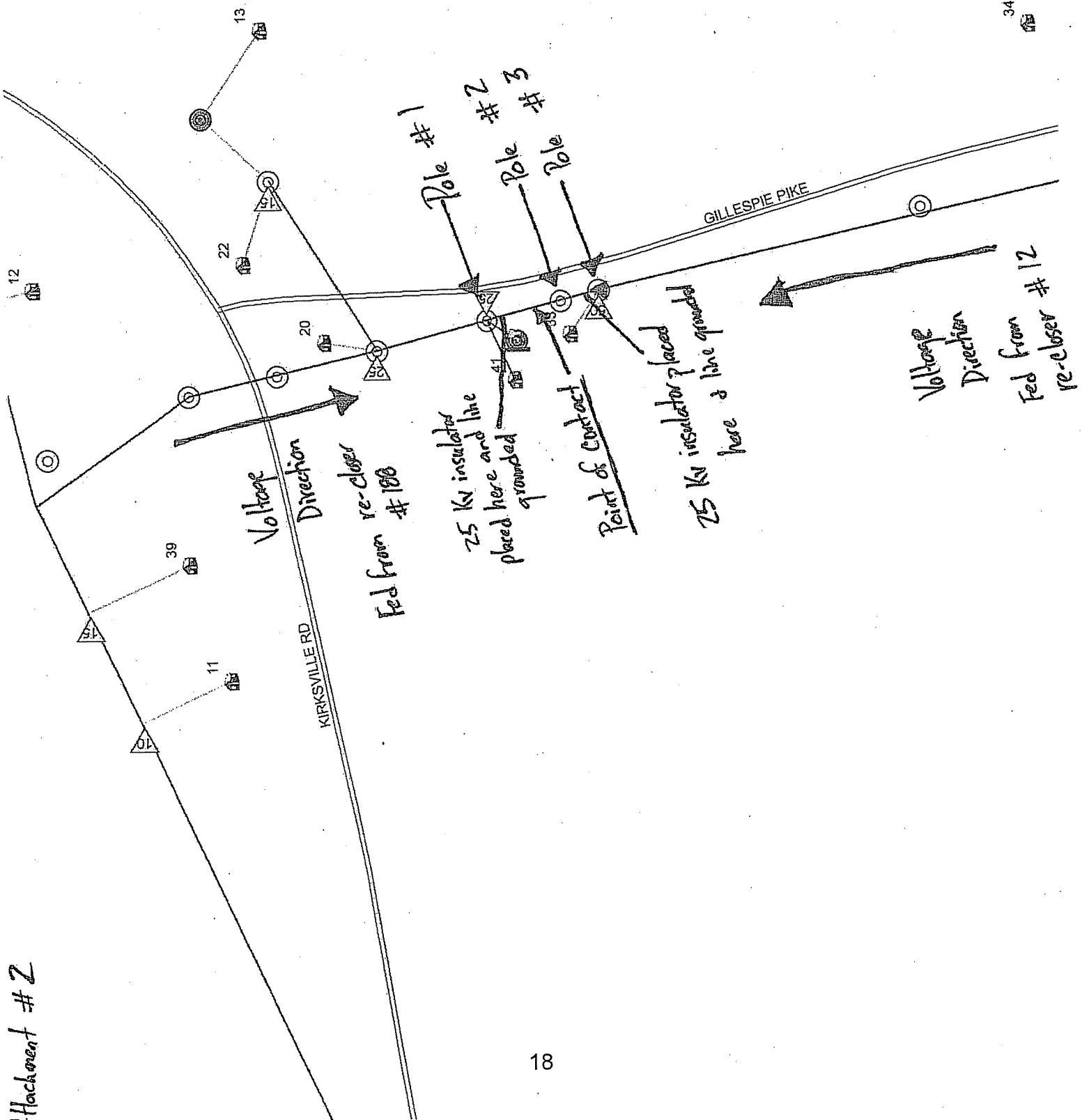
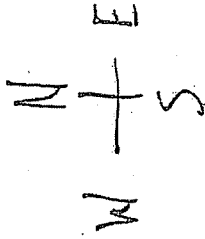
Clearance Zone for non-loading side of Grain Bin

Approximate values used

At 10.75' out from a point 44' above ground at the non-loading edge of the grain bin from the ground, the clearance envelope is at 36' 10" high. Our primary conductor was measured at 28' 10.5" Thus, our primary was 7' 11 1/2" vertically intrusive to the clearance envelope and 4' 3" horizontally intrusive to the clearance envelope.



6nd Level



Attachment #4

SERVICE ORDERS

INTER-COUNTY ENERGY COOPERATIVE

P. O. BOX 87
DANVILLE, KY 40423-0087
(859) 236-4561

Order Rec'd by: DS Date: 7.1.10

Co. No. _____ Acct. No. 2116731029 | 2116201 | 15 | _____
LSN Transformer NBR Transformer Size
Rotate Digit

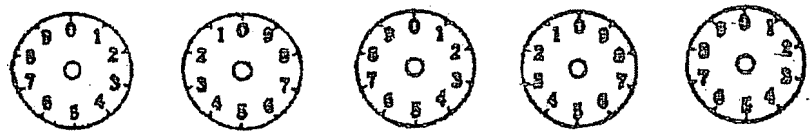
SAL	PC	FIRST	MIDDLE	LAST NAME & GEN.	SS #
		<u>Barry</u>		<u>Estes</u>	
A D D R E S S	2	PLEASE PRINT CLEARLY <u>703 Niles Ridge Rd</u>			Road
	3	<u>Lancaster Ky</u>			ZIP <u>40304</u> County <u>Bar</u>
	4				Formerly:
	5				Owner:
					Kentucky Sales Tax:

Membership Cert. No. _____ Date Paid _____ Amount _____
Old Bill _____ Date Deposit Paid _____ Amount _____
Instructions resay phase 4-11, replace gas meter
Last Meter Reading _____

For Disconnects only: () Apply Membership Fee () Transfer to New A N Loc. _____
() If still on service @ another place () Membership Record not at this location
Transfer Membership to _____ No action to be taken

Facility Charge: Yes _____ No _____
Sec. LT Reconnected: Yes _____ No _____
No. of Sec. Lts. _____ Rate & Class _____

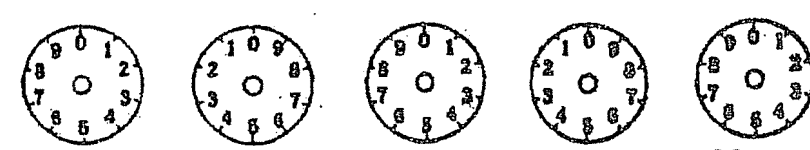
Meter No. _____ Serial No. _____ Size _____ Reading _____
METER SET OR READING



DS
Employee's Signature
Date 7.1.10

MULTIPLIER _____
Demand _____
Meter Sealed _____

Meter No. _____ Serial No. _____ Size _____ Reading _____
METER DISCONNECTED



MULTIPLIER _____
Demand _____
Meter Sealed _____

METER: Removed () Left ()

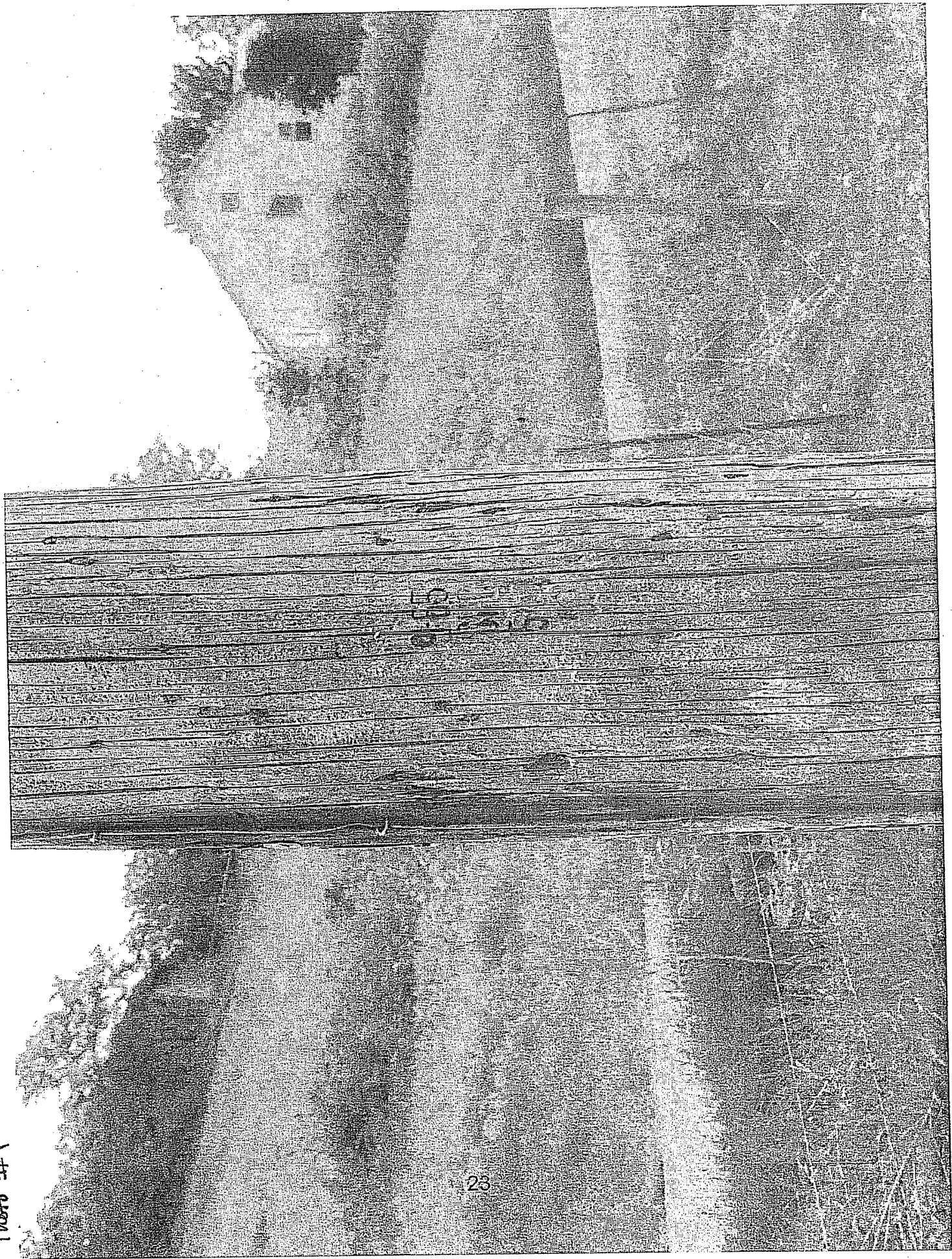


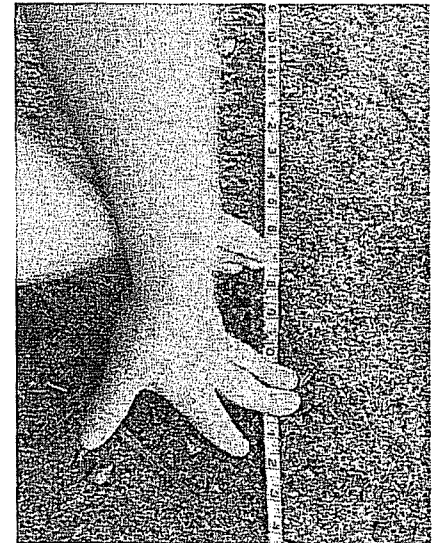
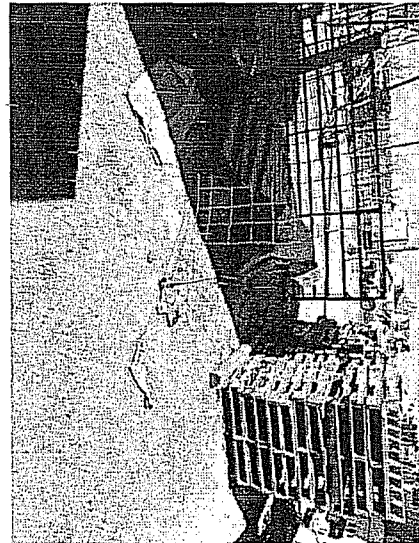
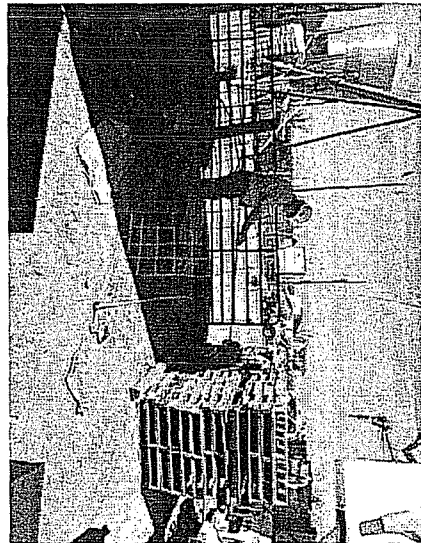
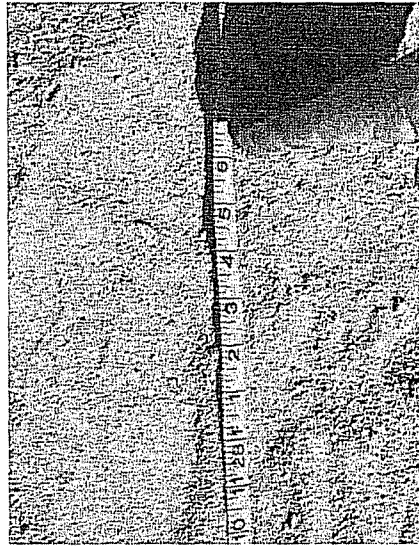
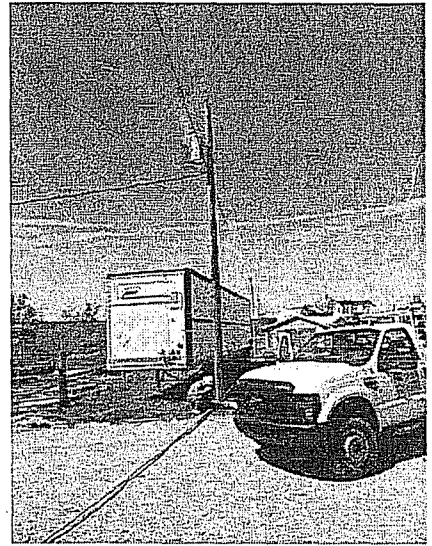
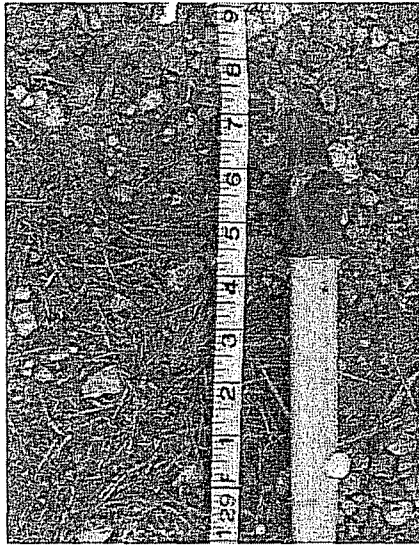
Photo #1

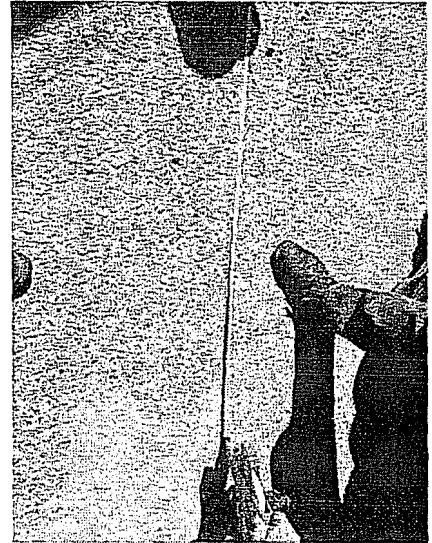
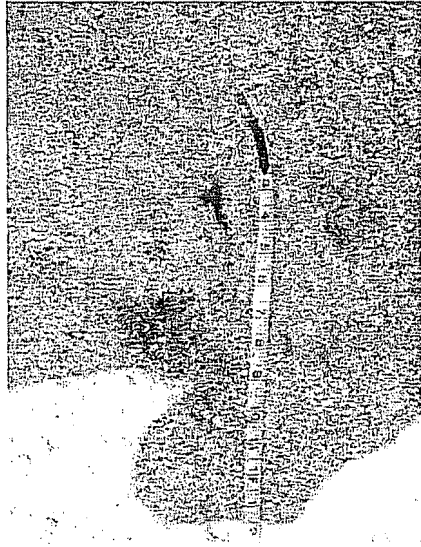
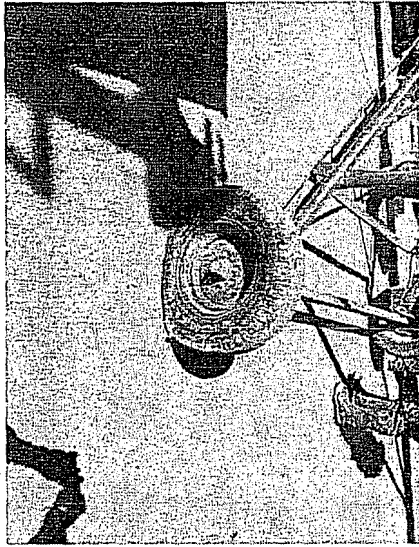
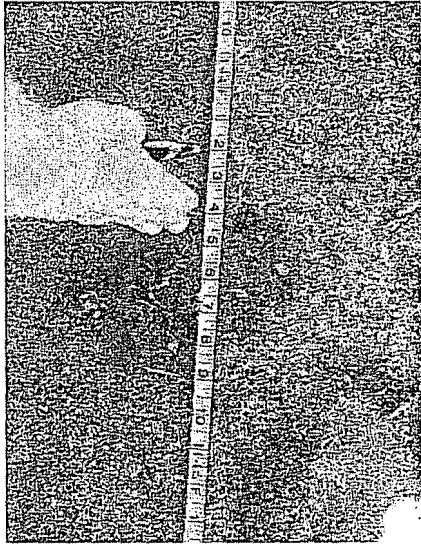
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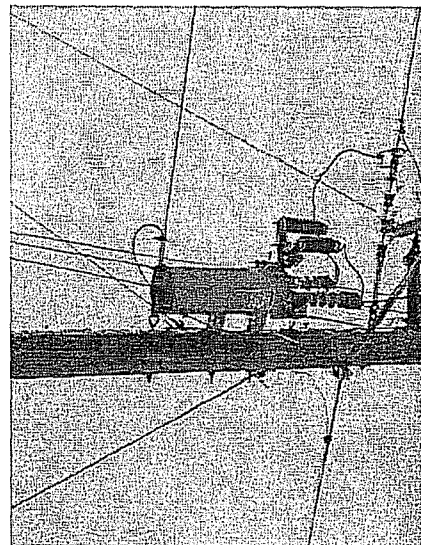
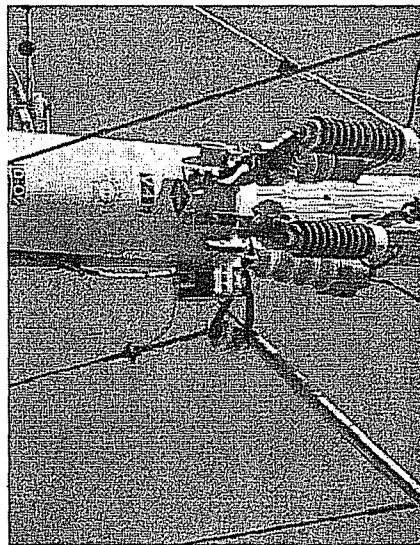
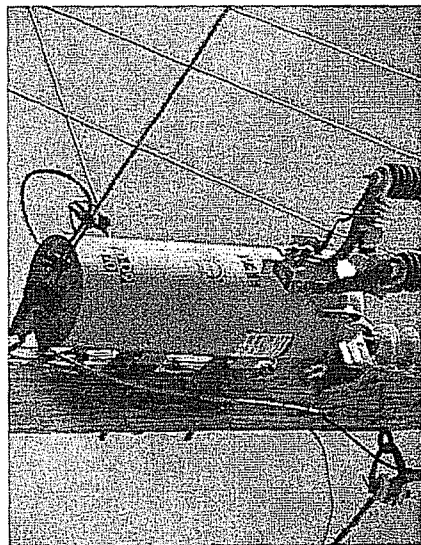
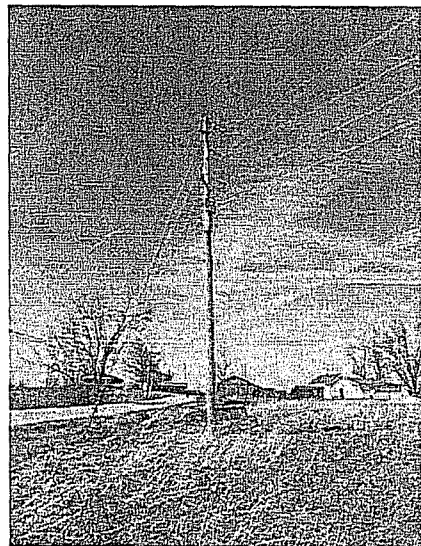
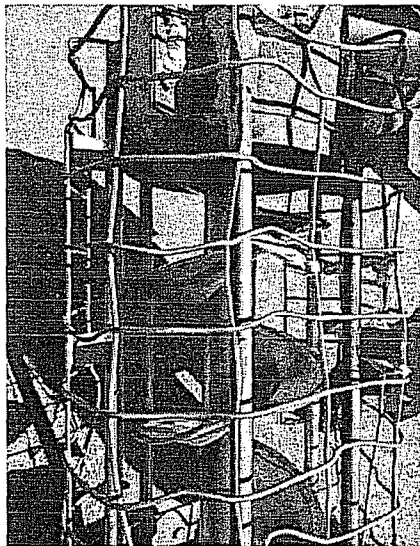
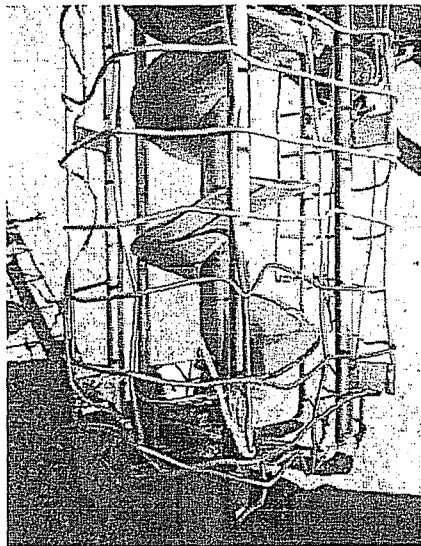
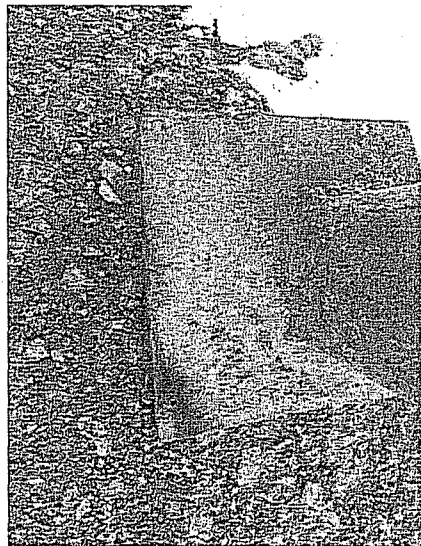
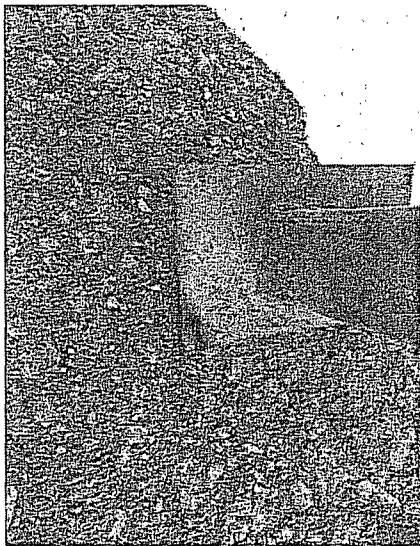
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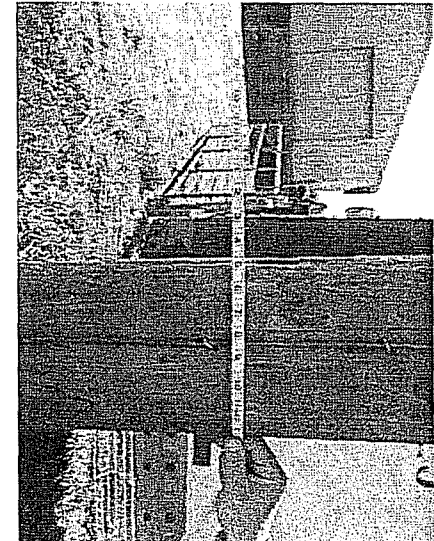
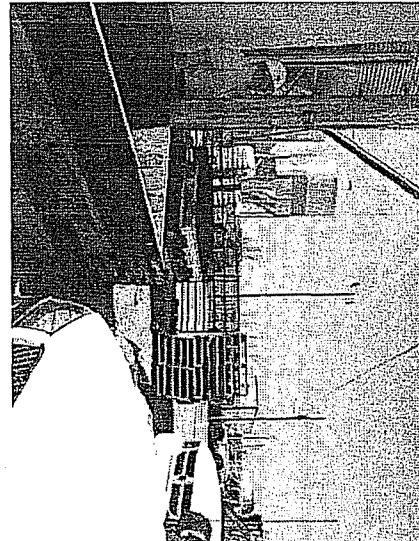
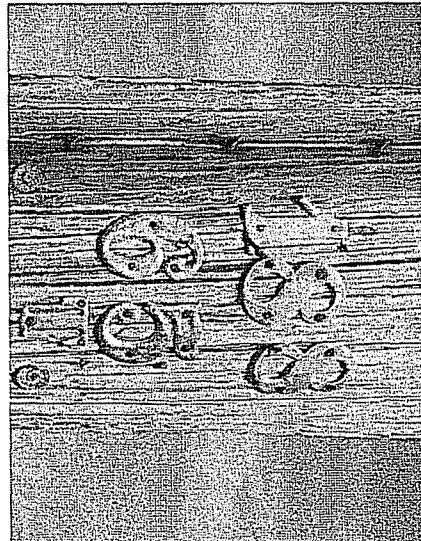
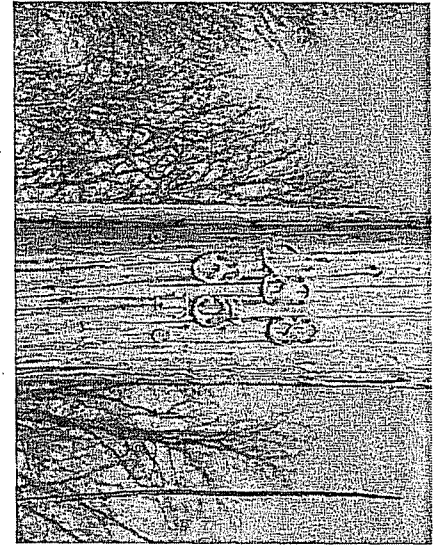
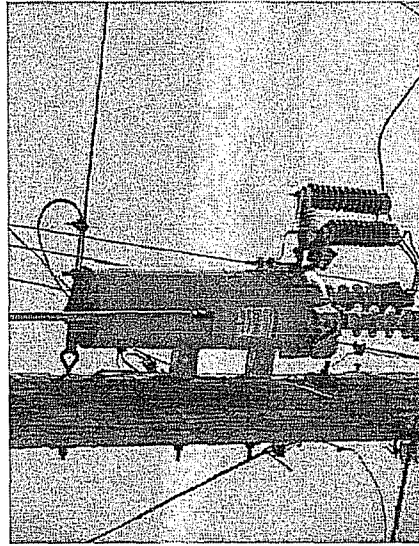
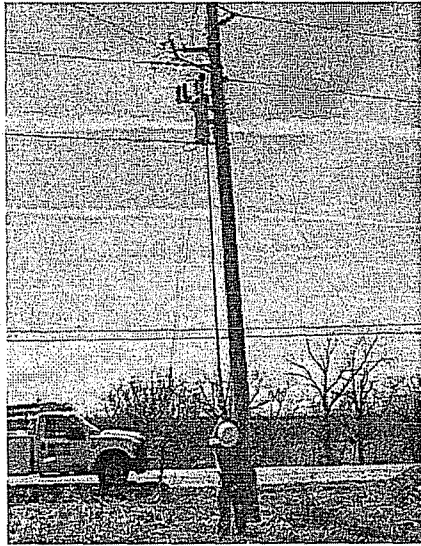
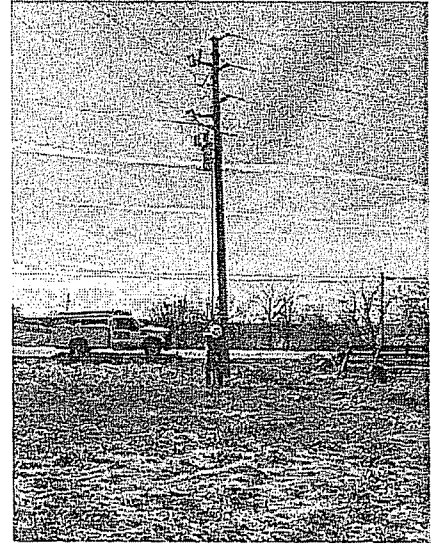
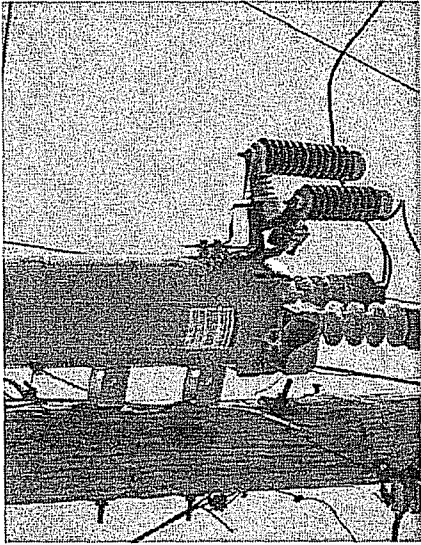
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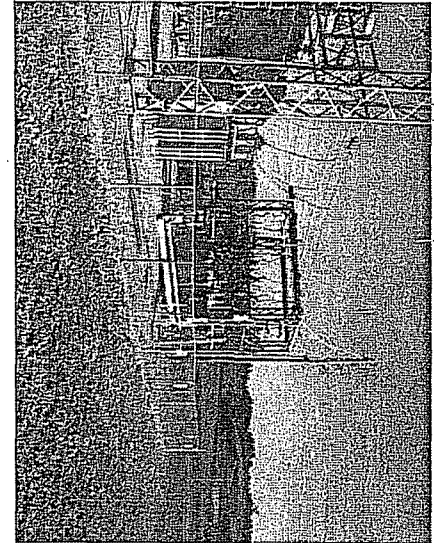
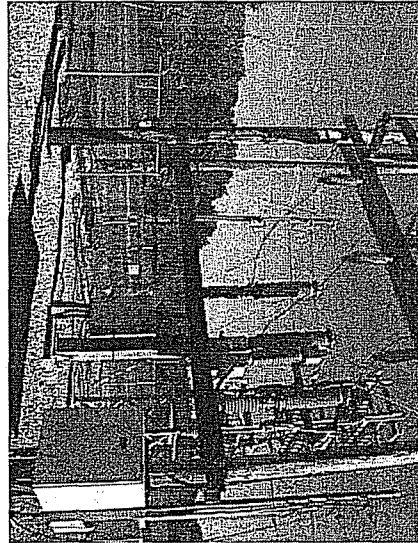
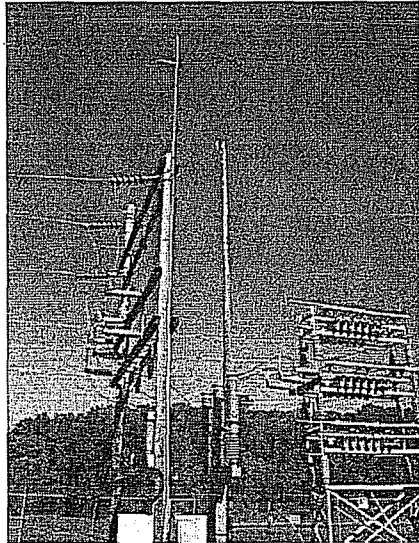
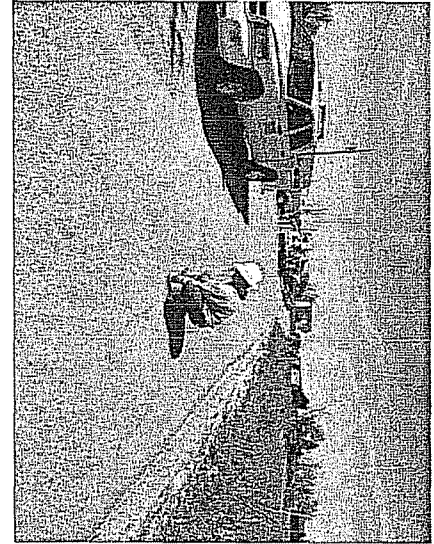
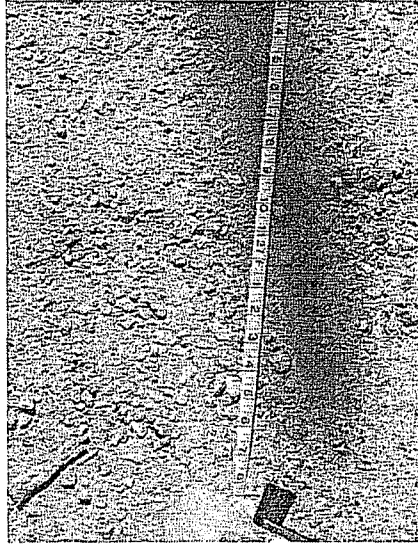
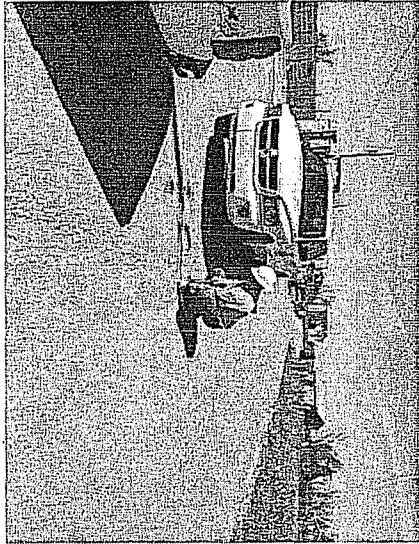
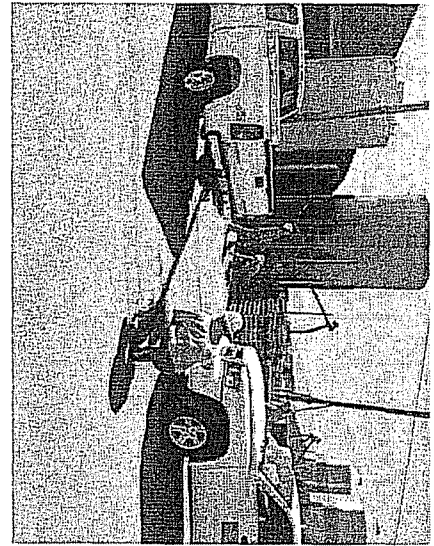
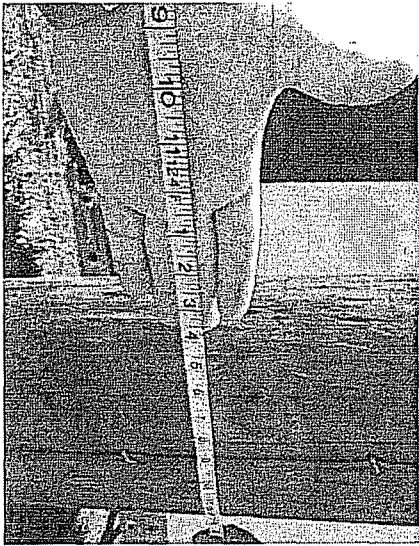
Attachment B
Utility Photographs with Seven-Day Report

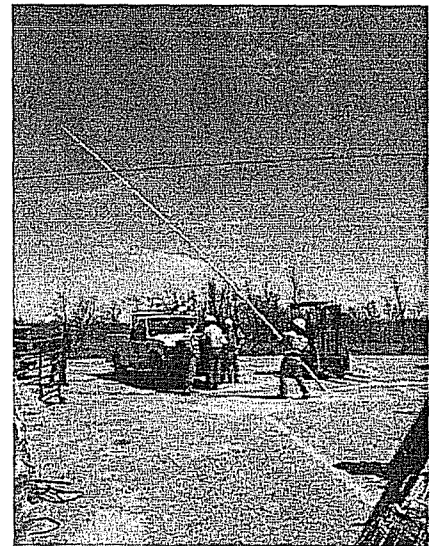
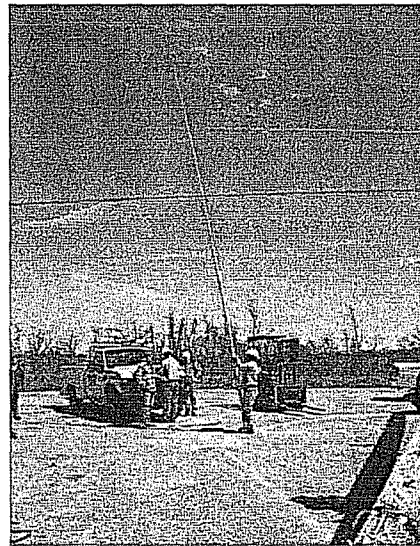
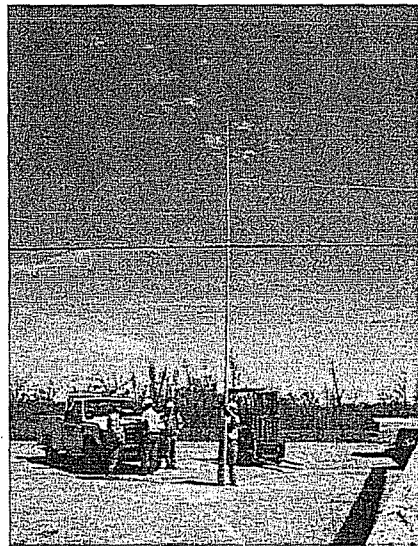
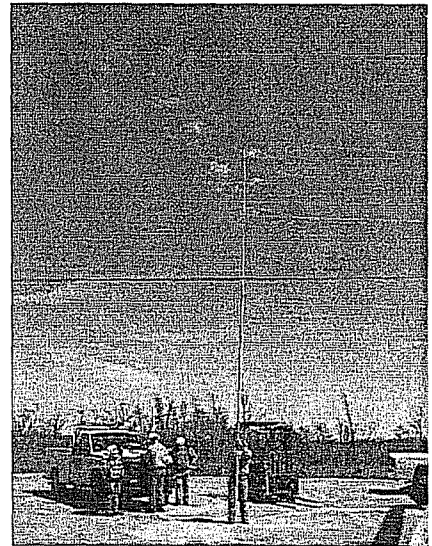
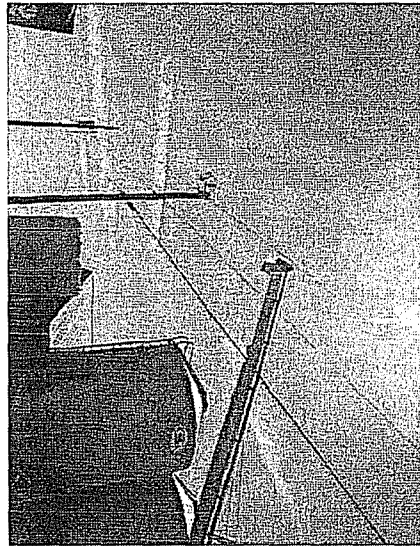
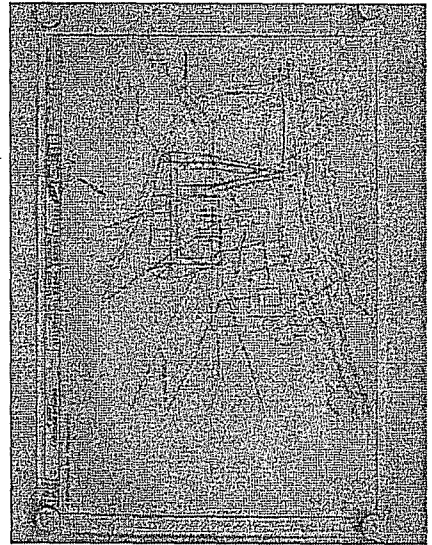
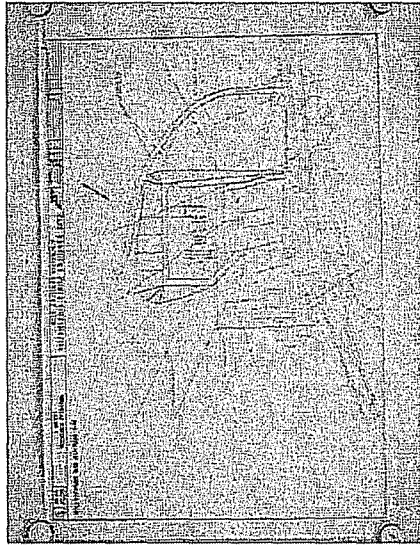
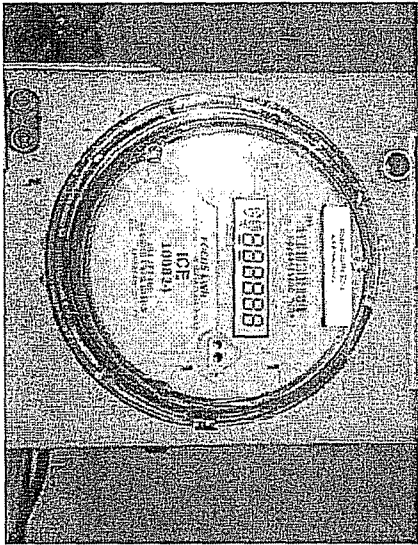


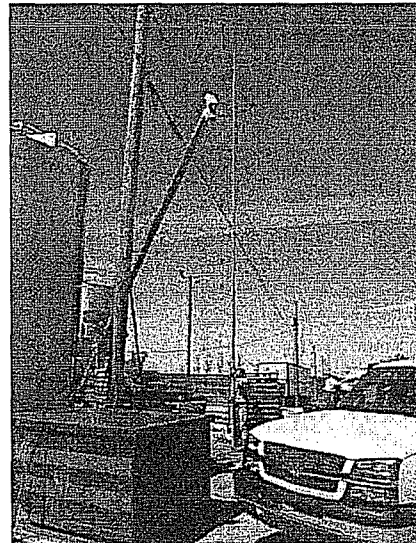
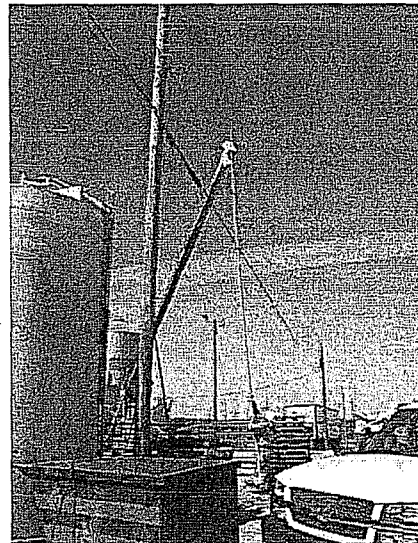
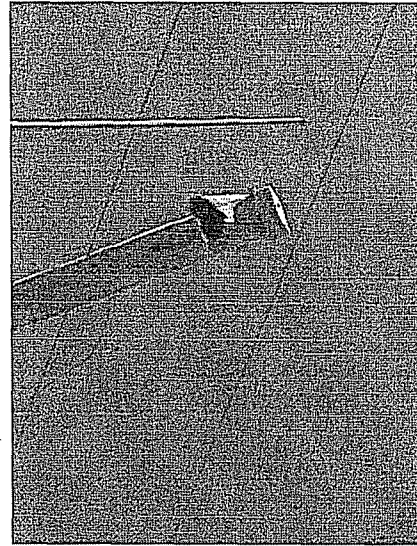
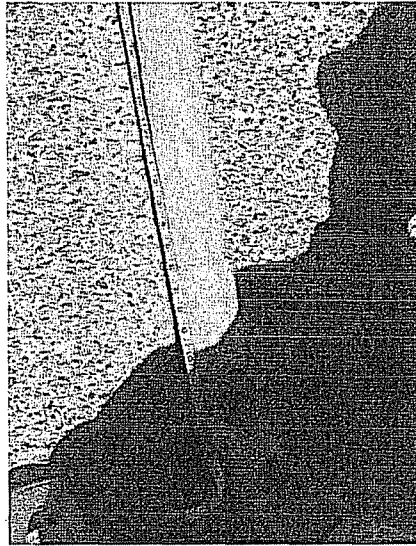
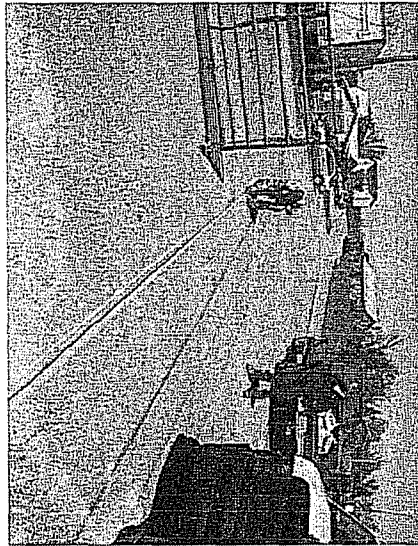
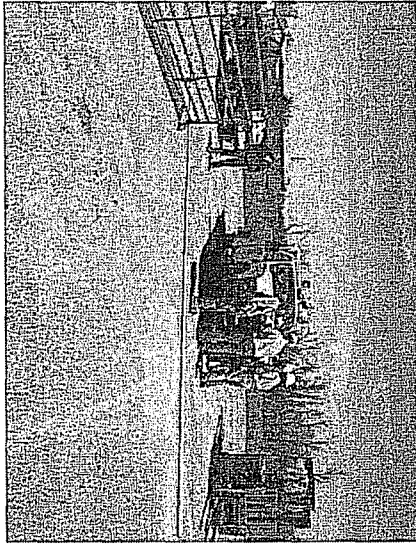
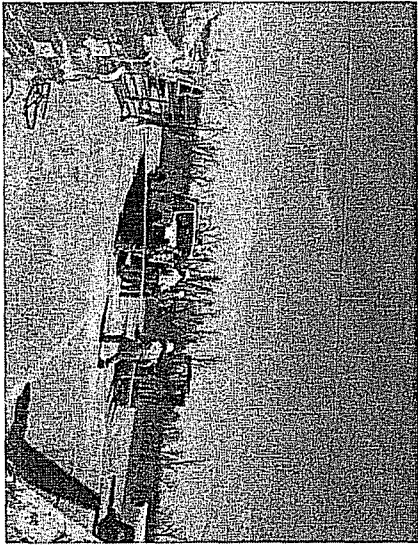


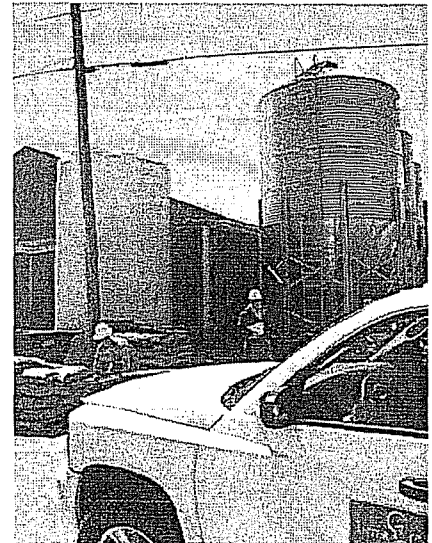
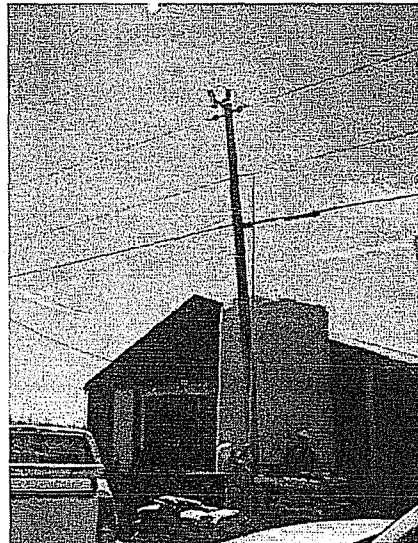
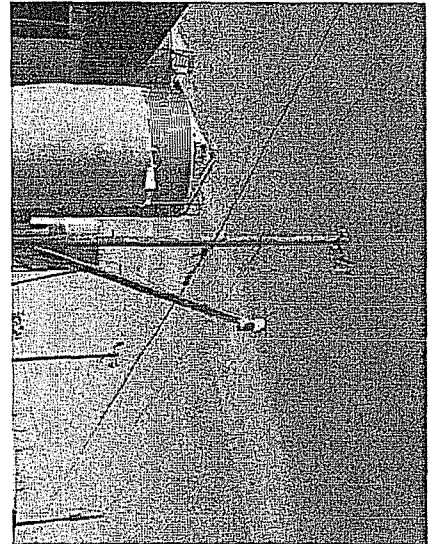
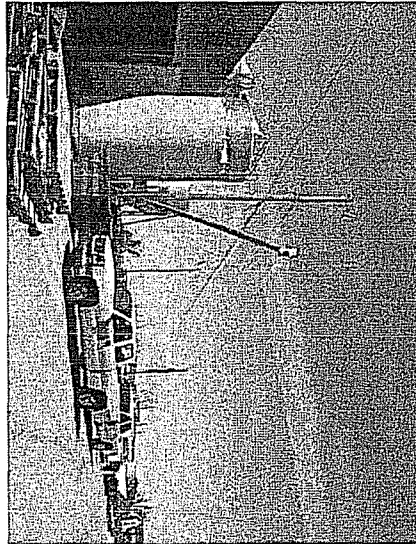
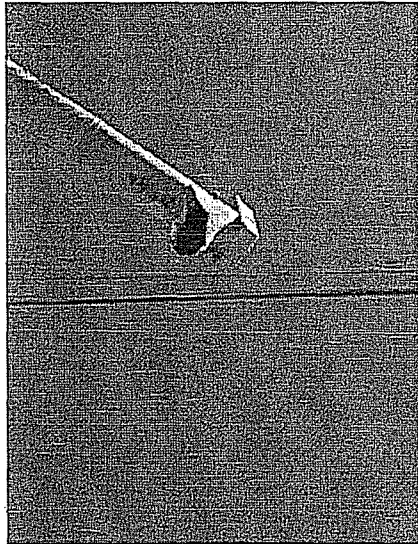
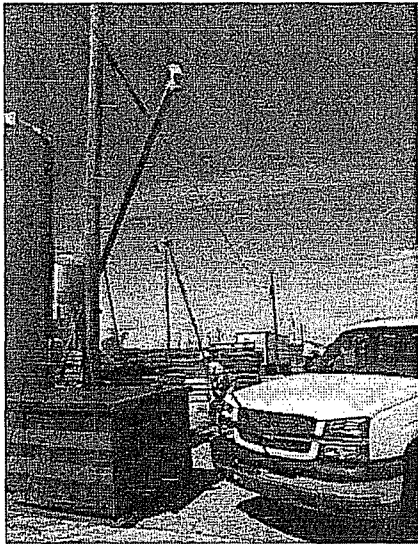


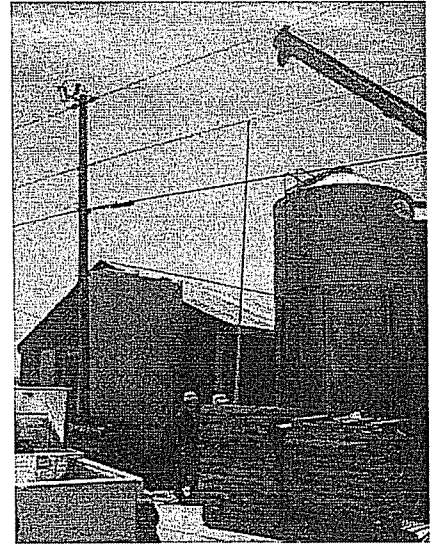
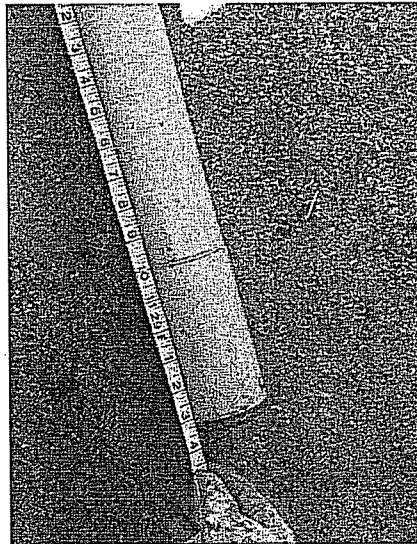
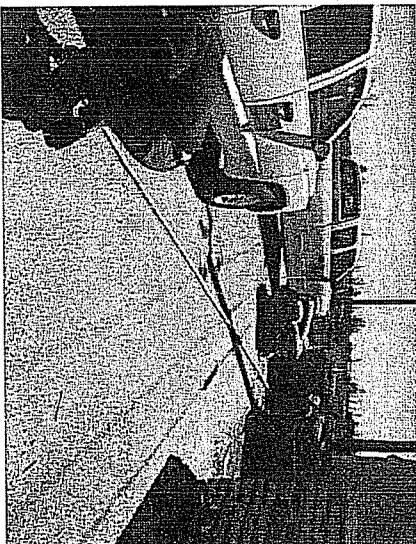
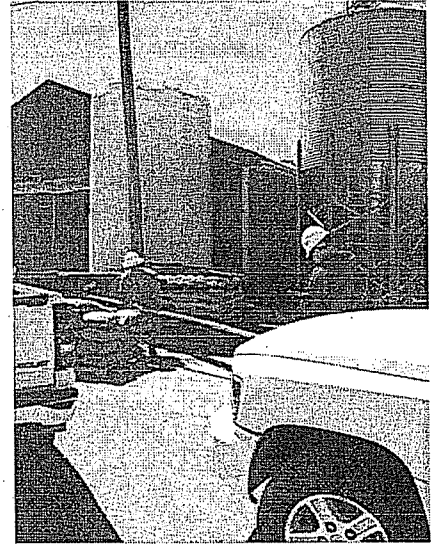
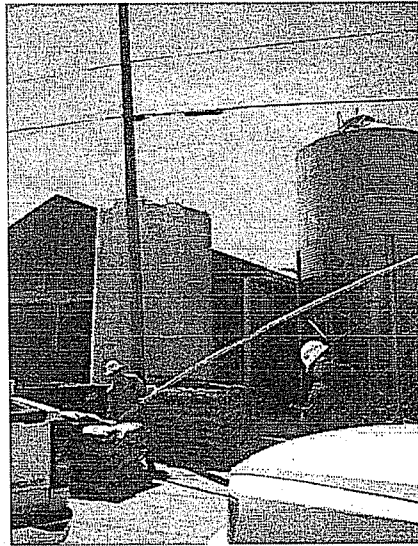
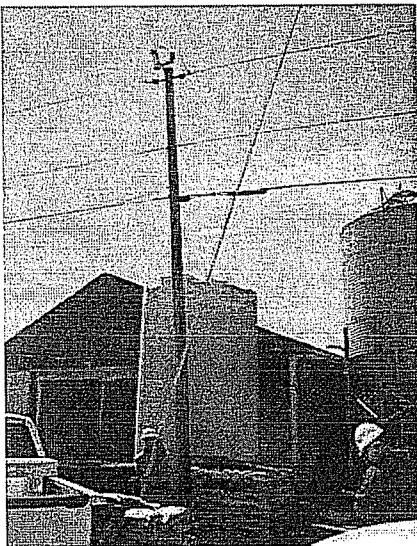
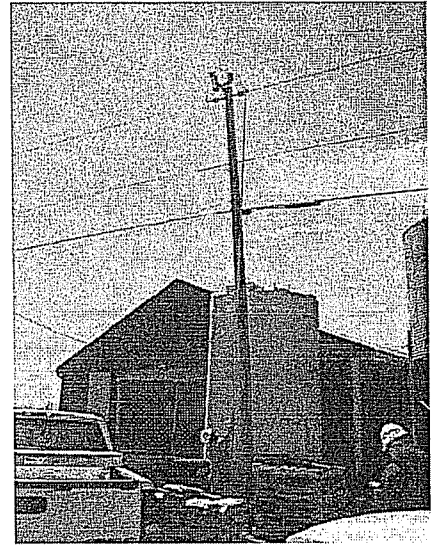
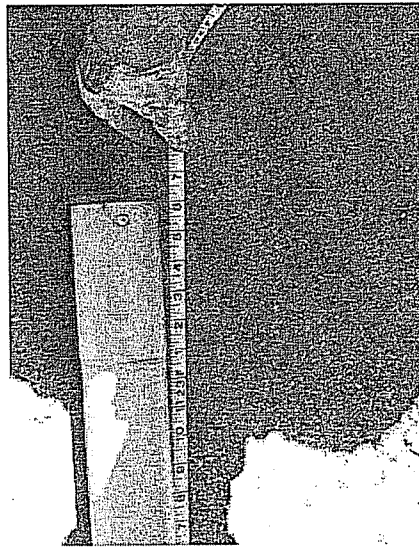


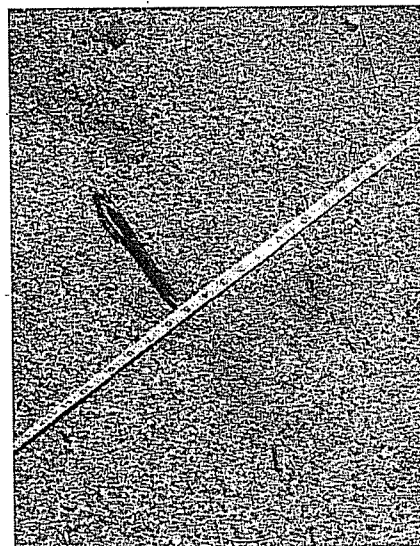
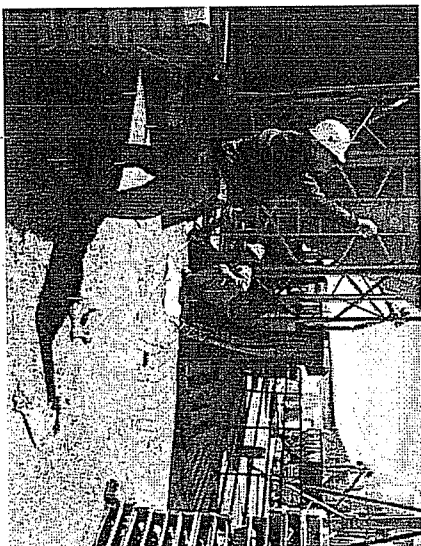
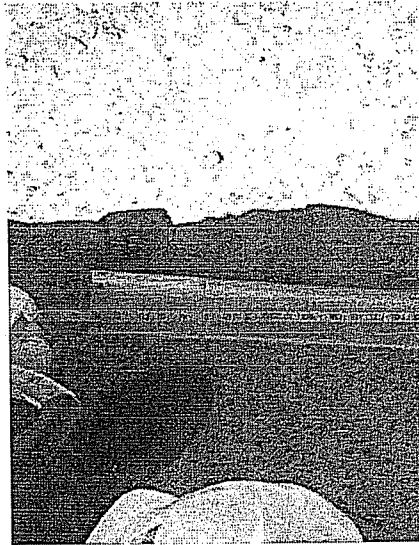
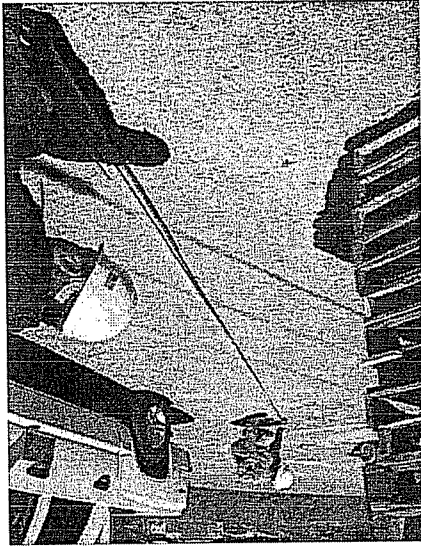
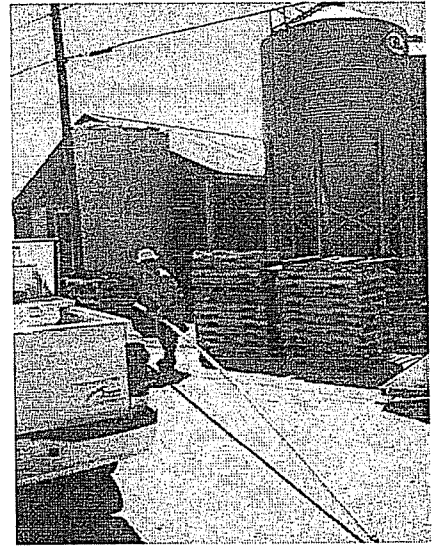
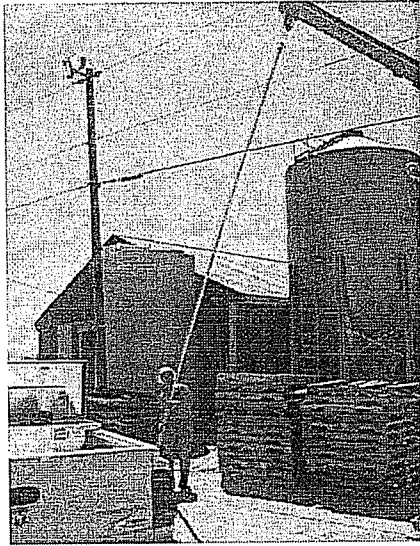
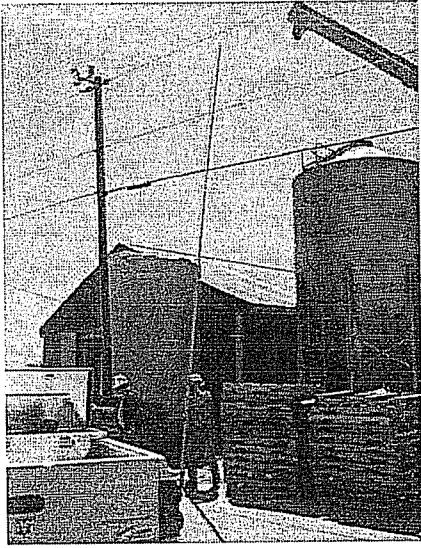


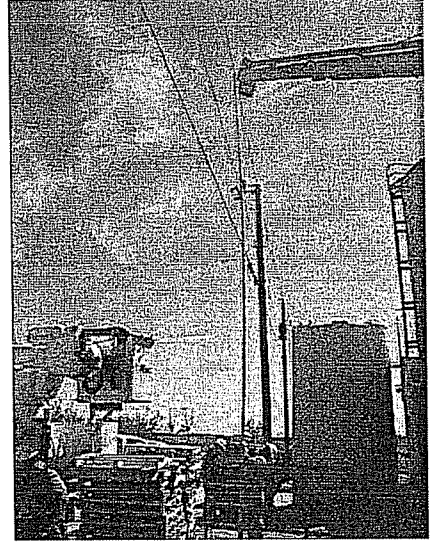
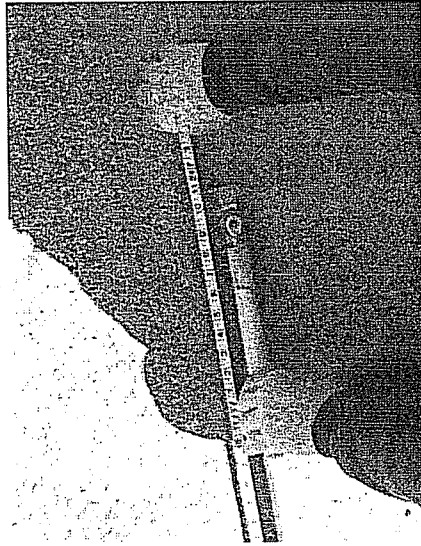
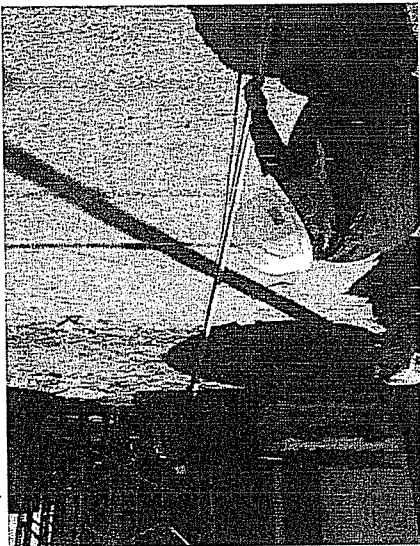
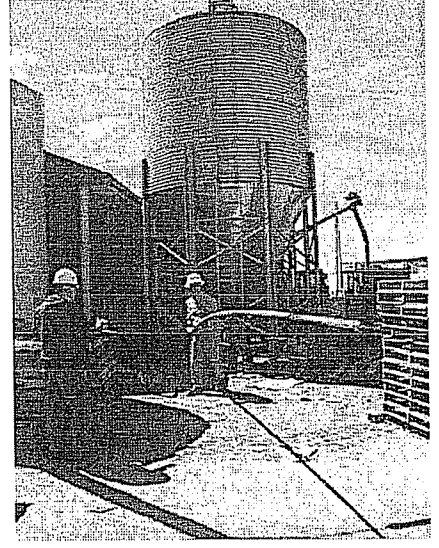
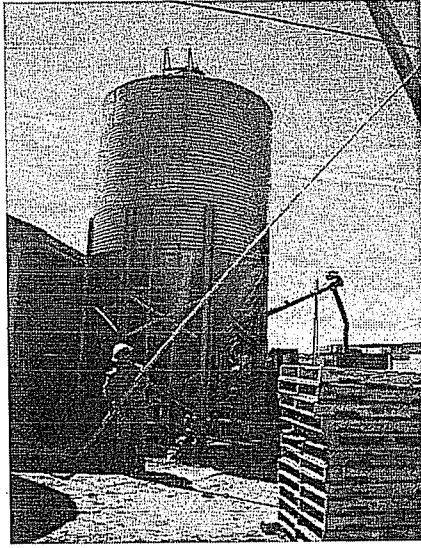
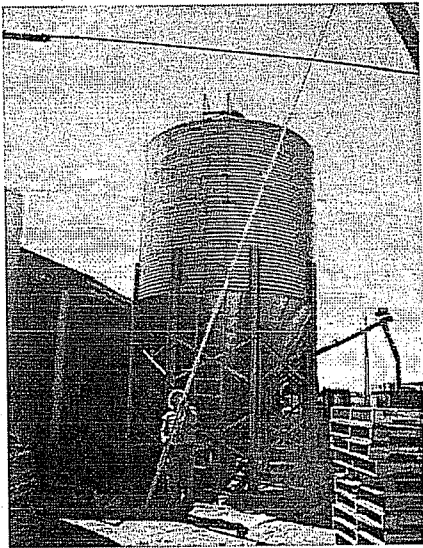
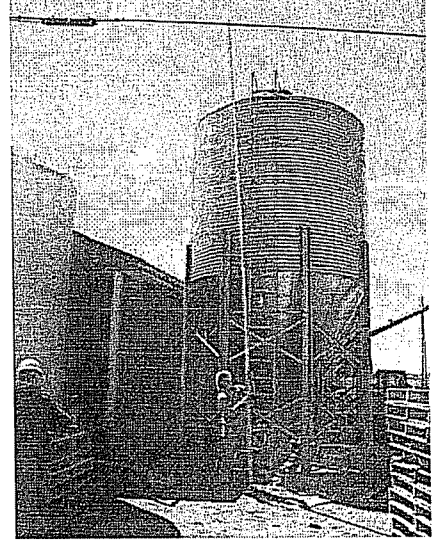
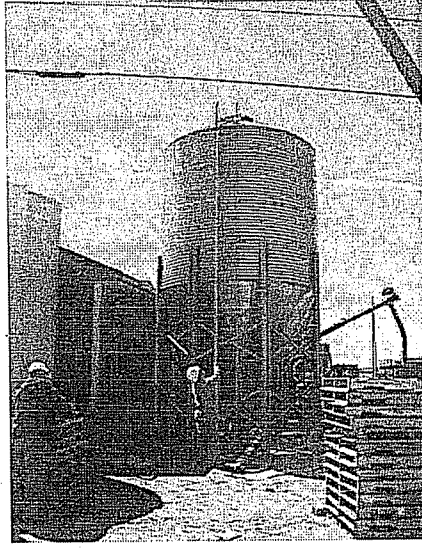
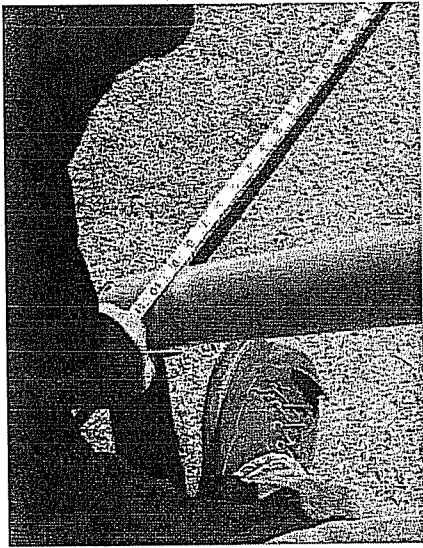


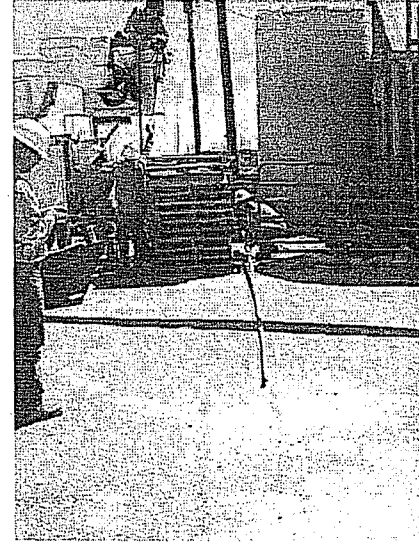
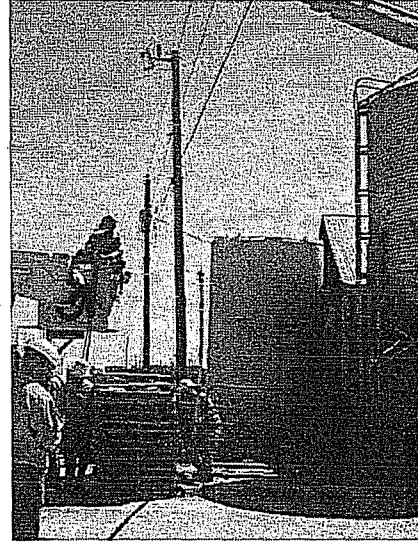
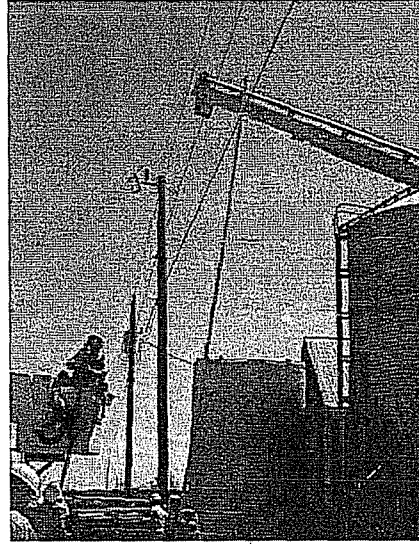
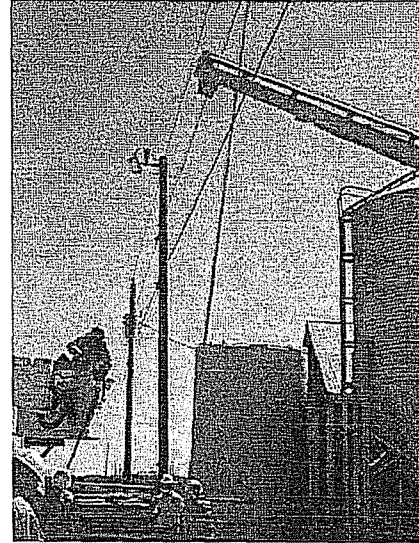
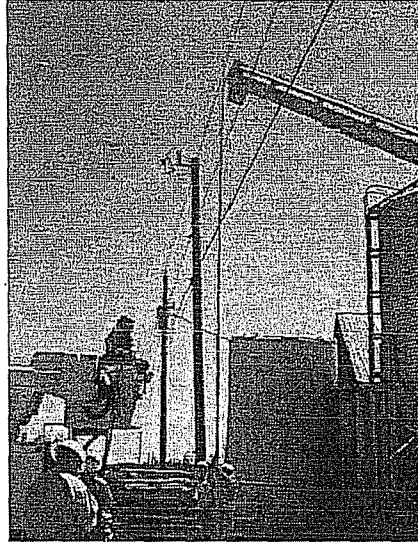
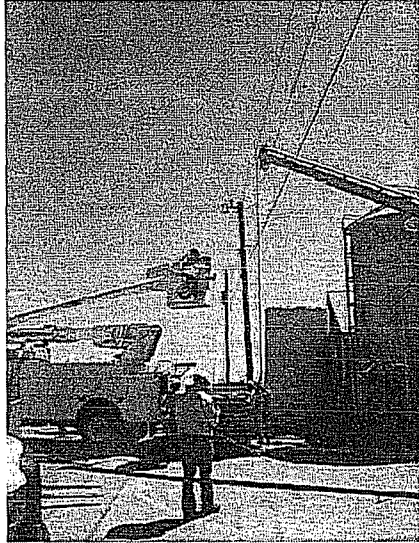
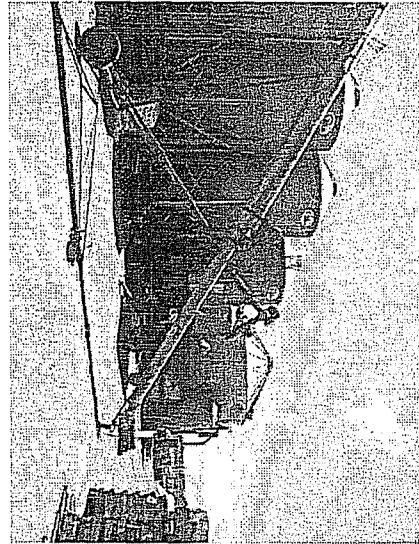
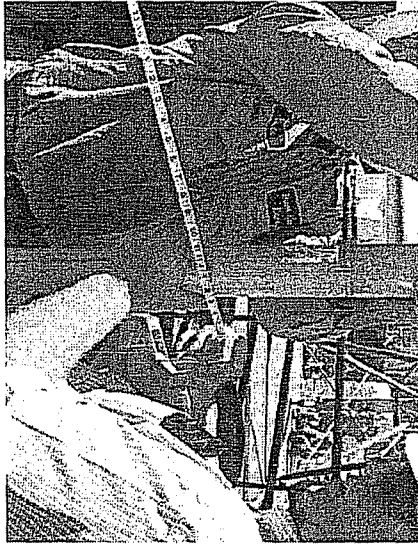
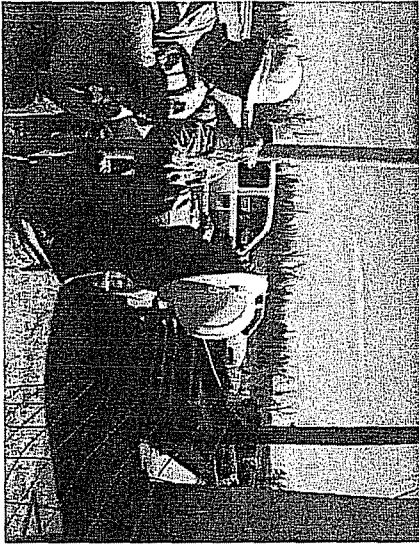


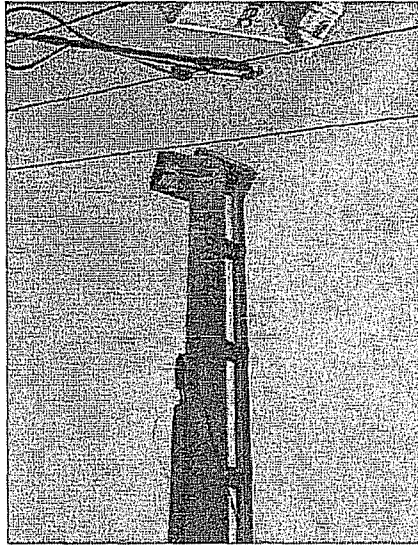
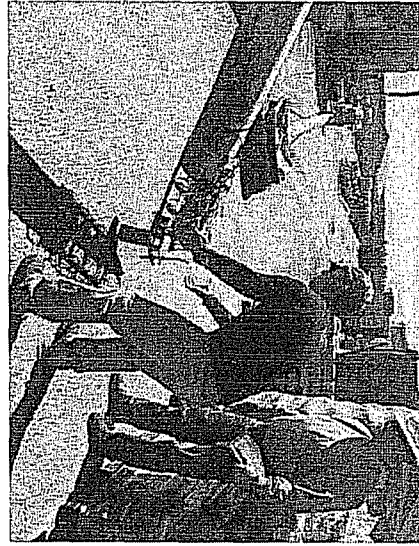
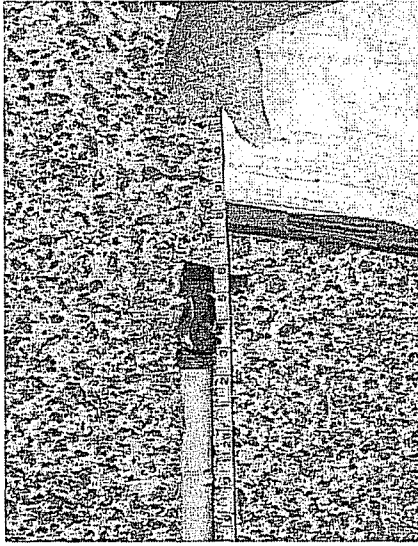


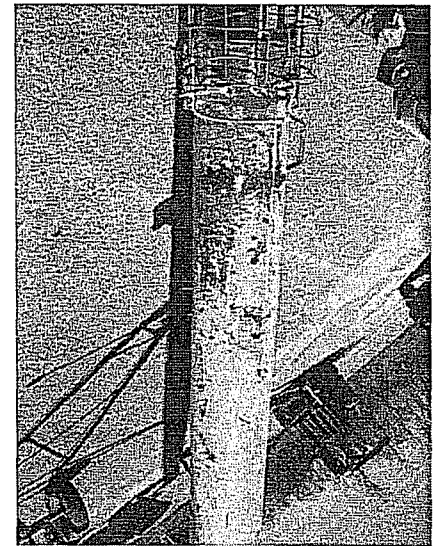
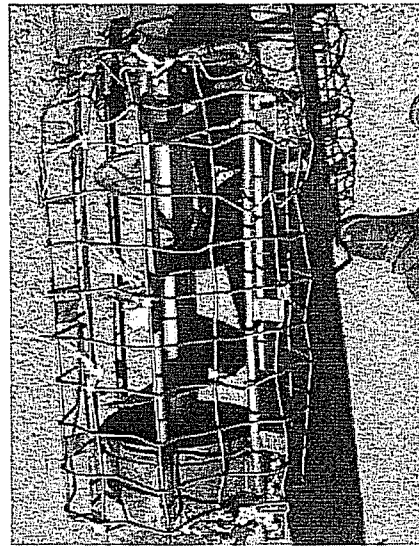
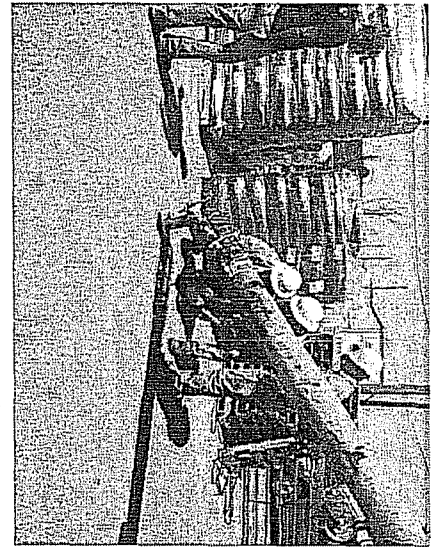
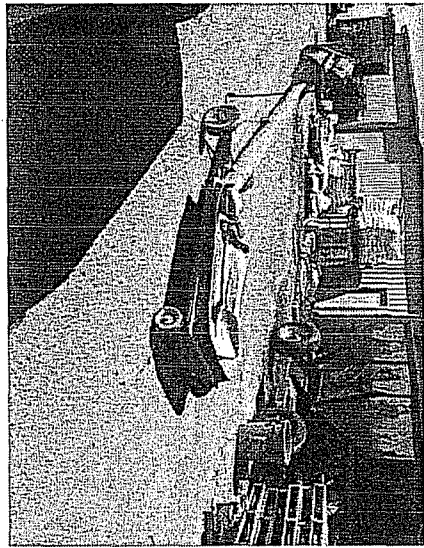
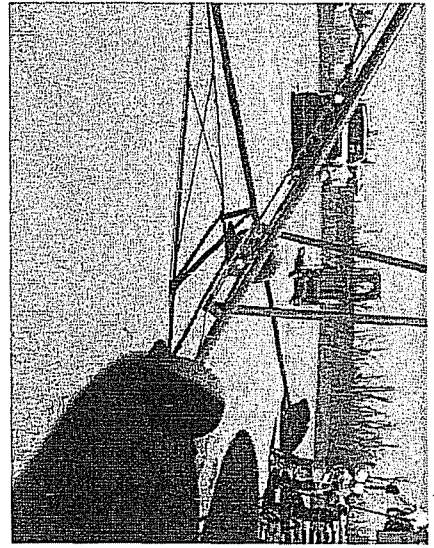
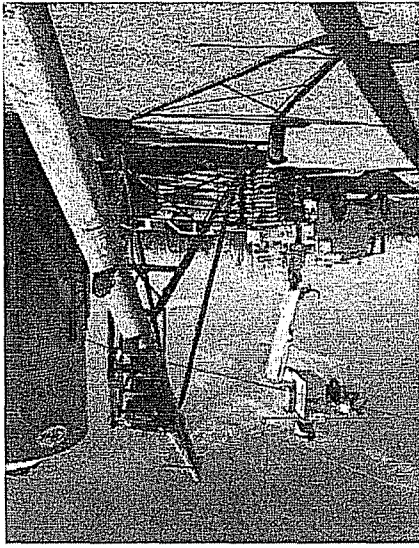
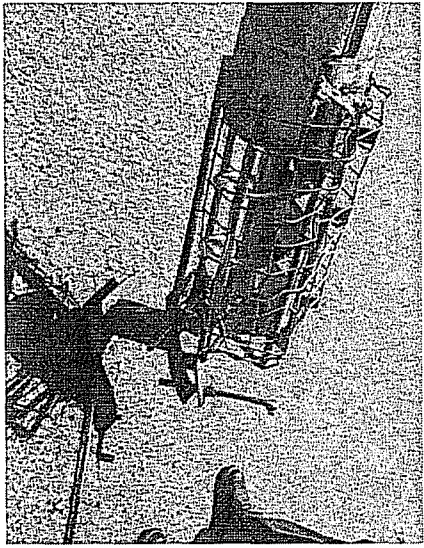


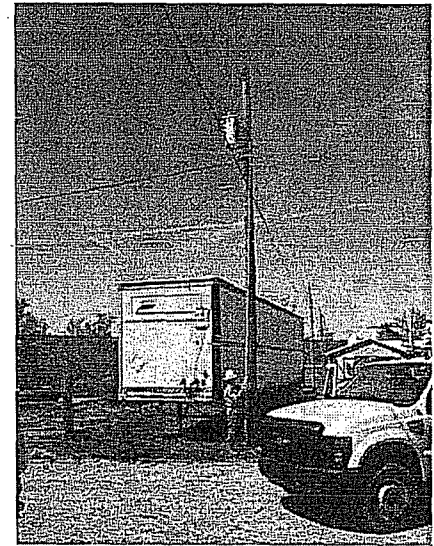
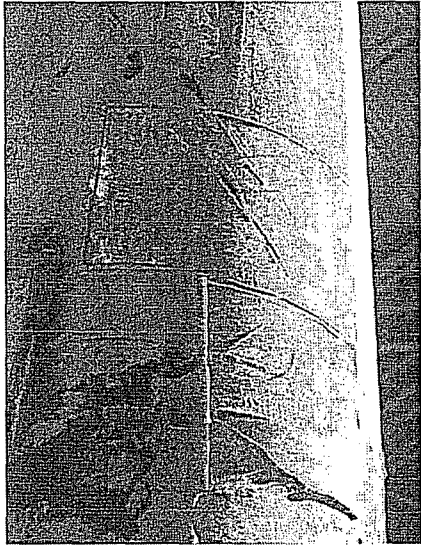
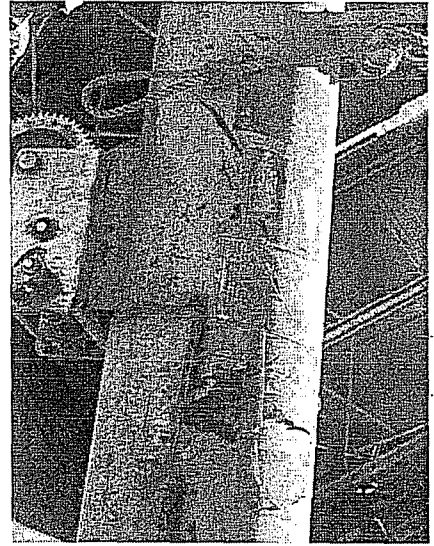
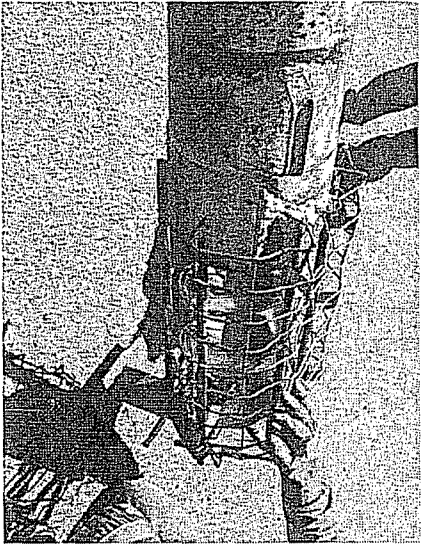


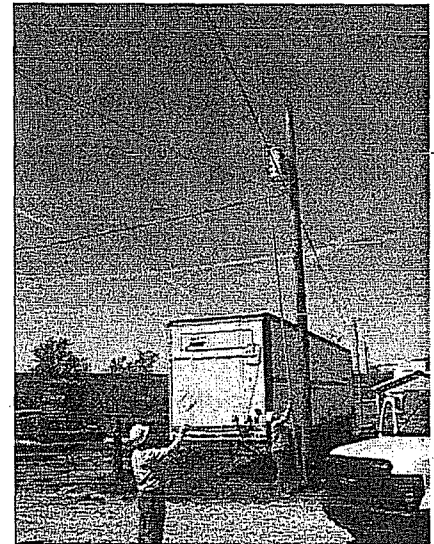
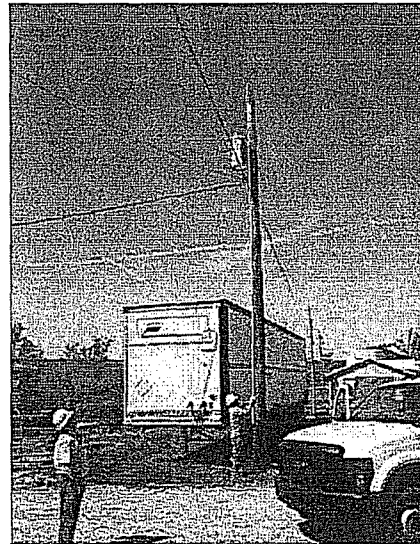
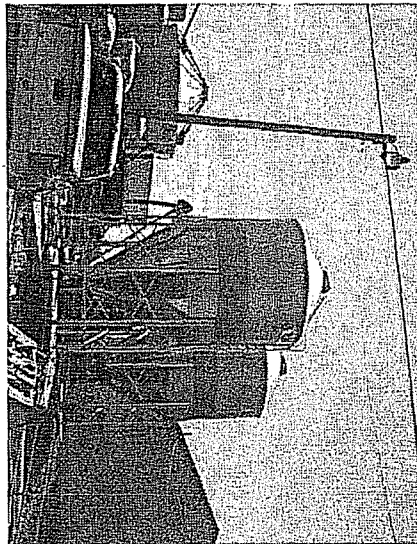
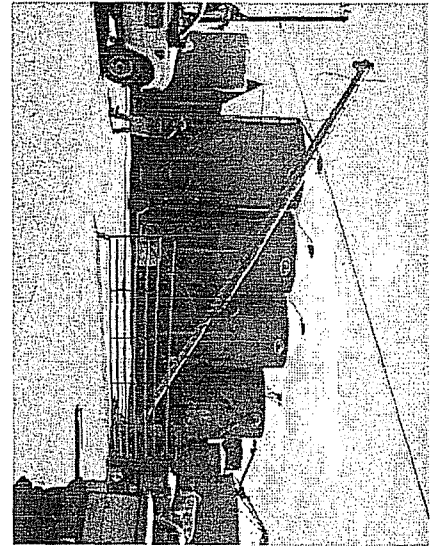
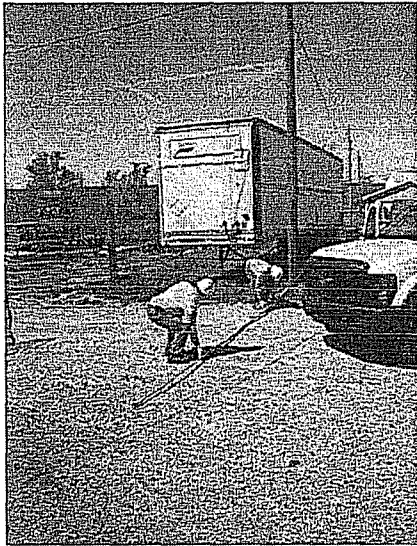
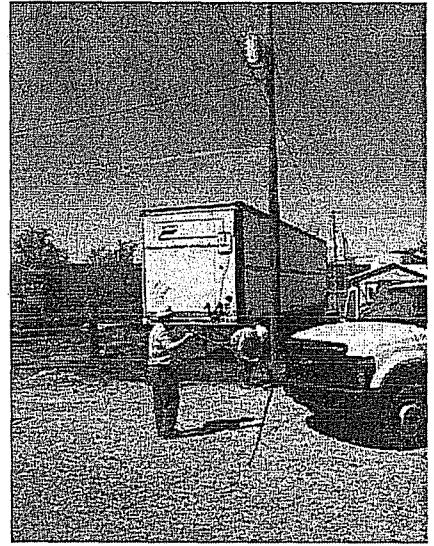
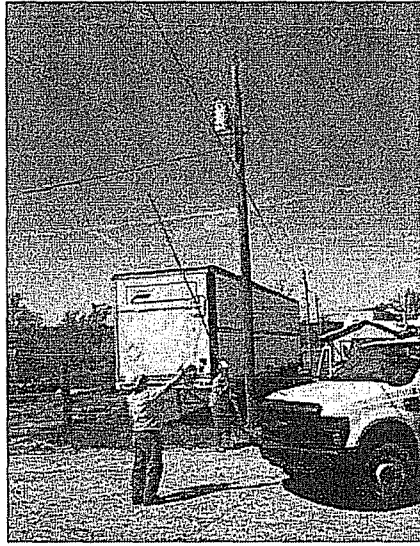
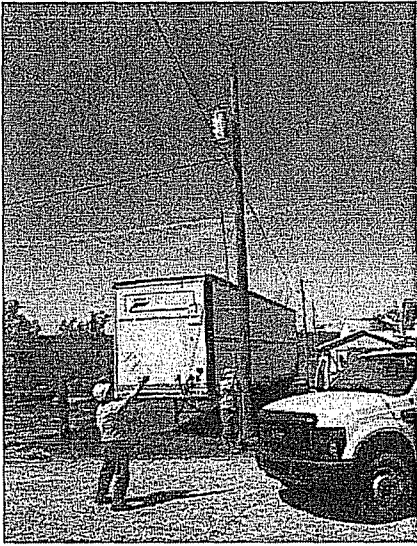


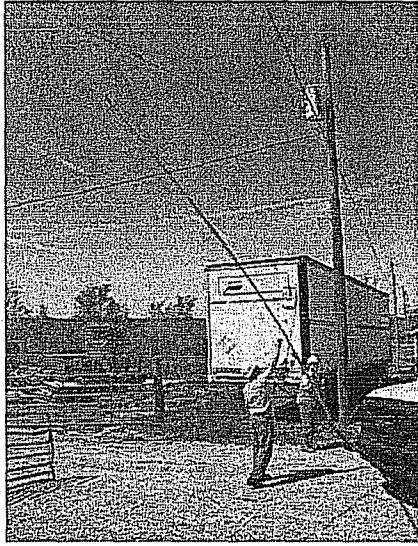
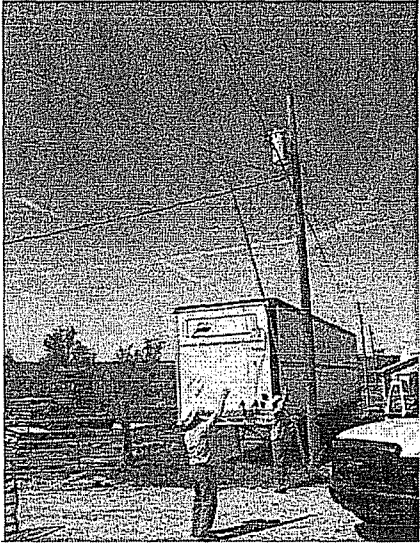






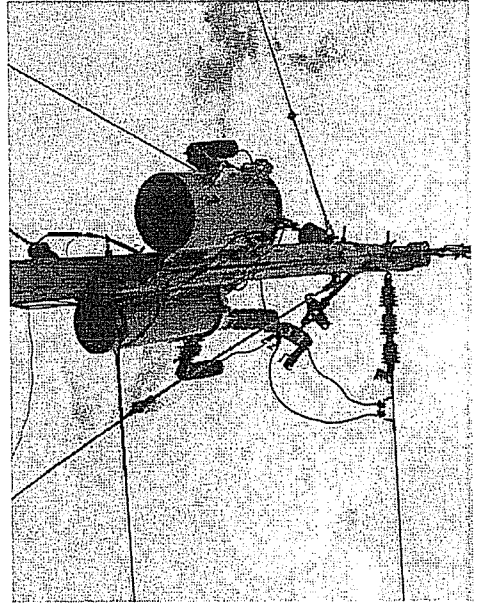
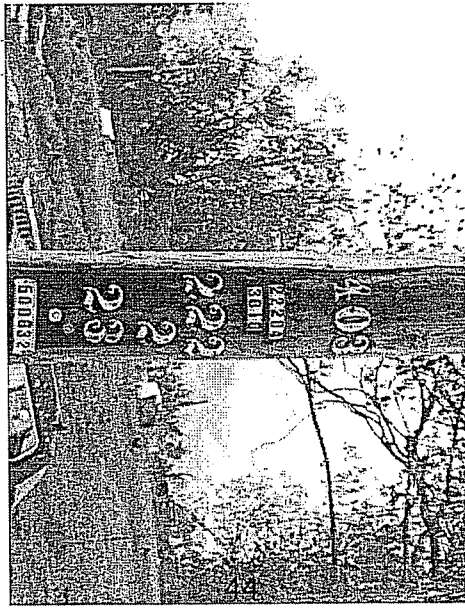
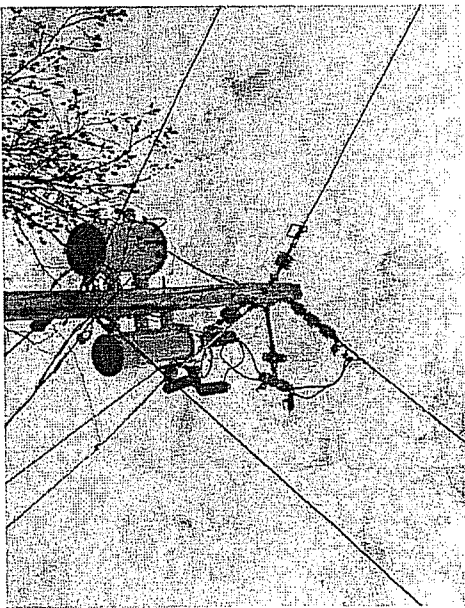
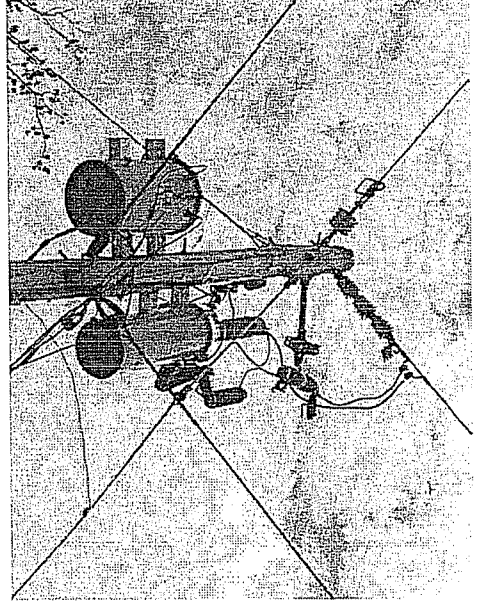
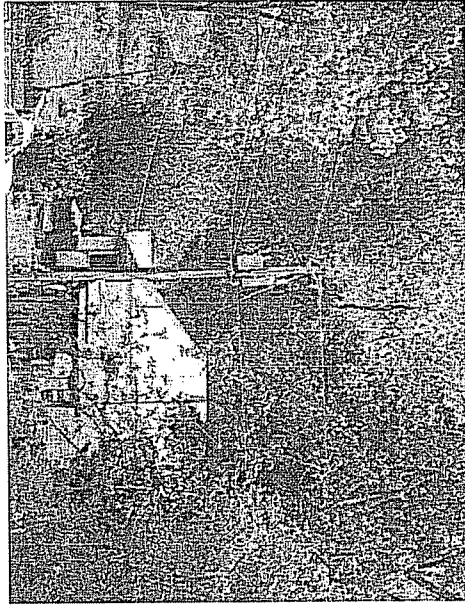
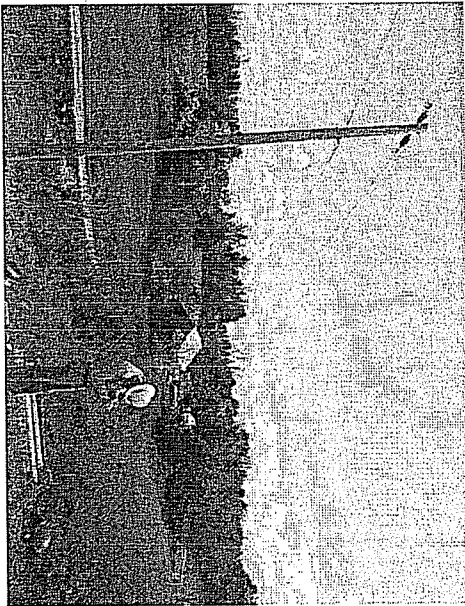
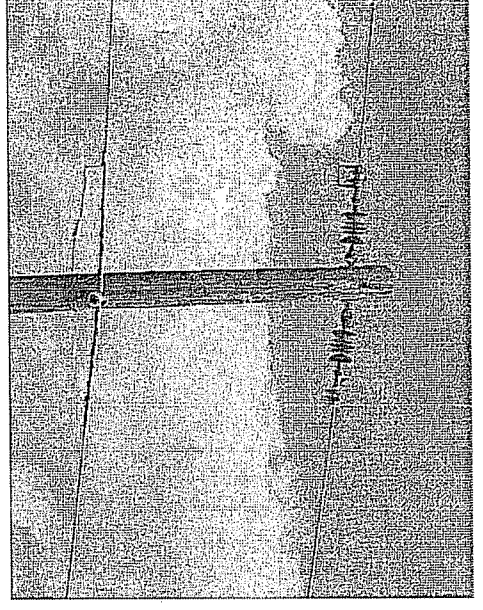
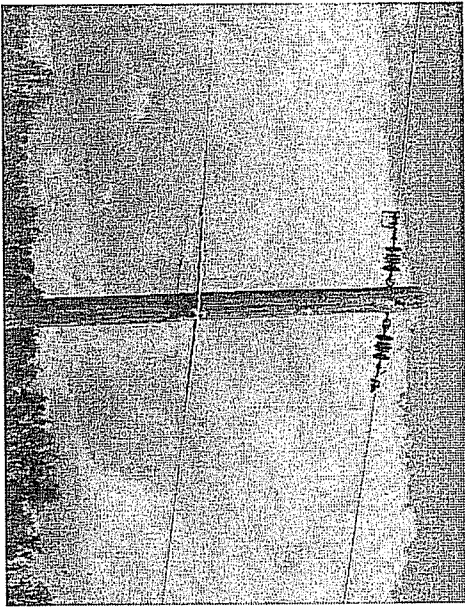


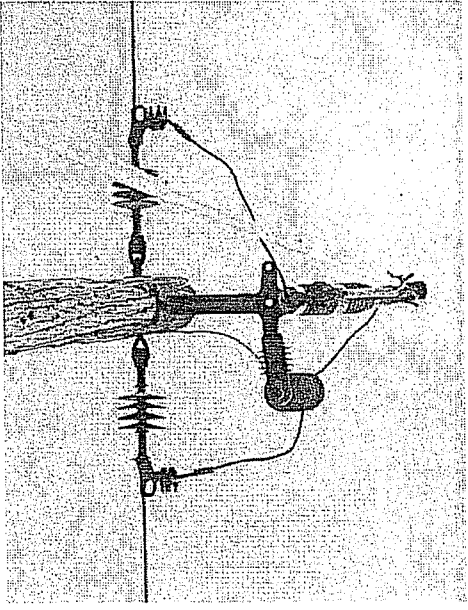
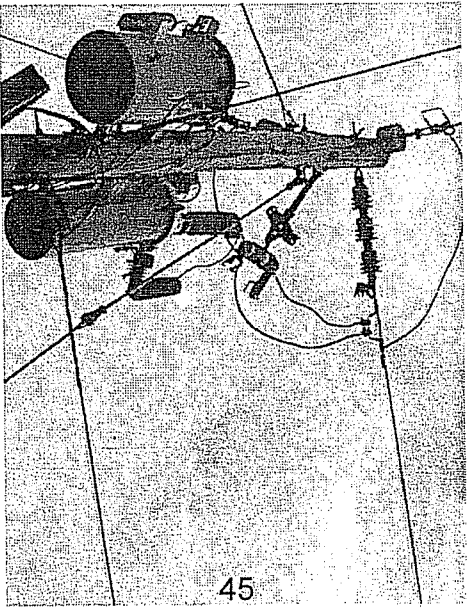
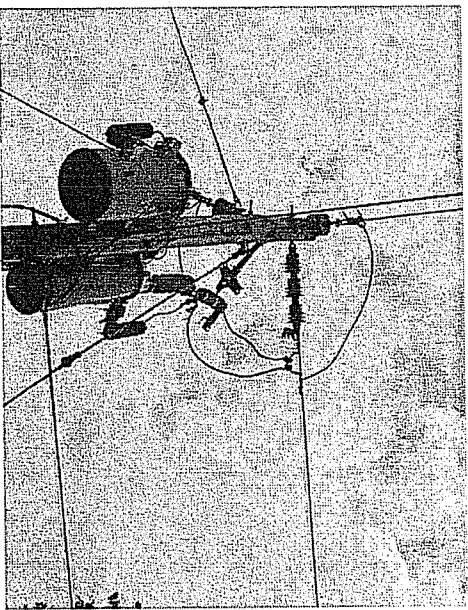
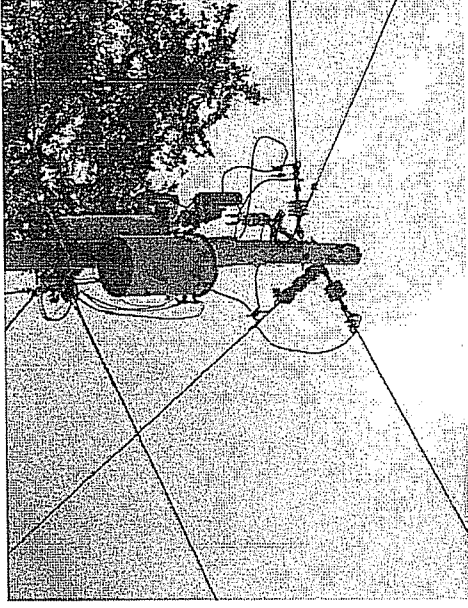
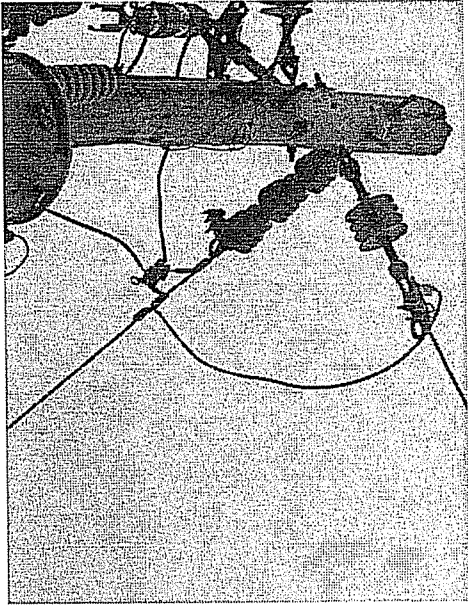
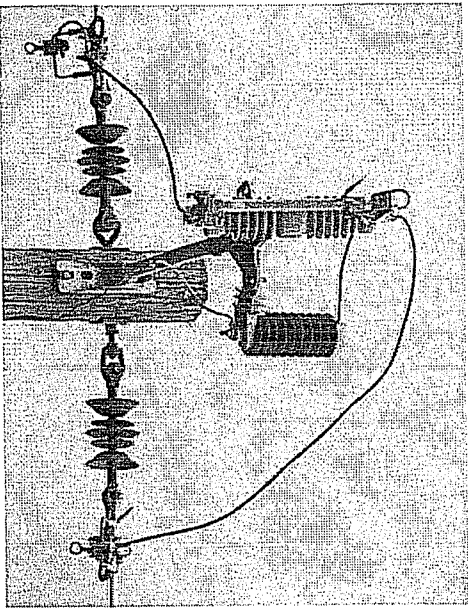
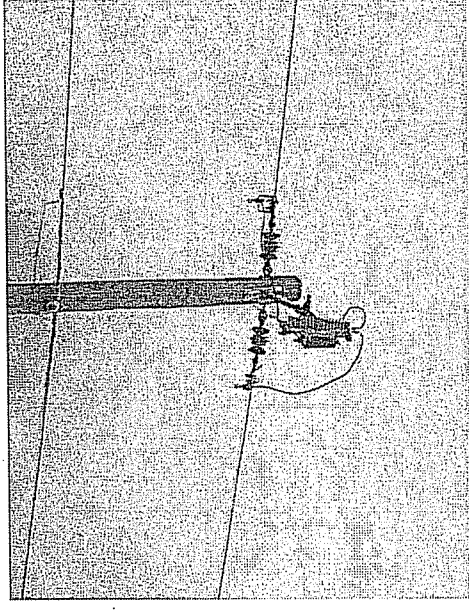
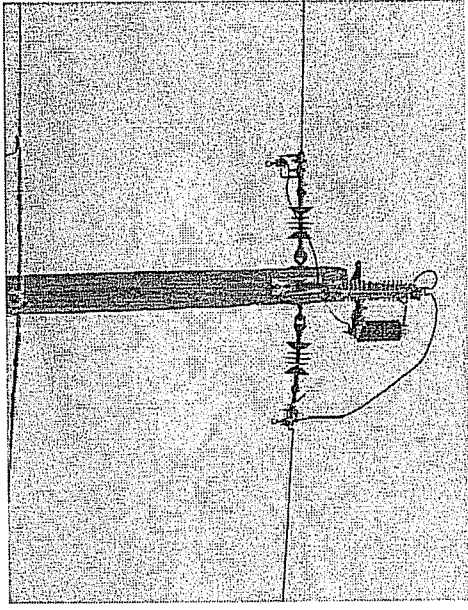
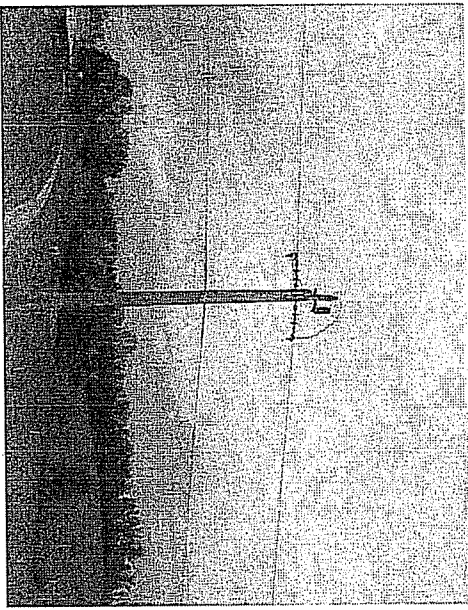


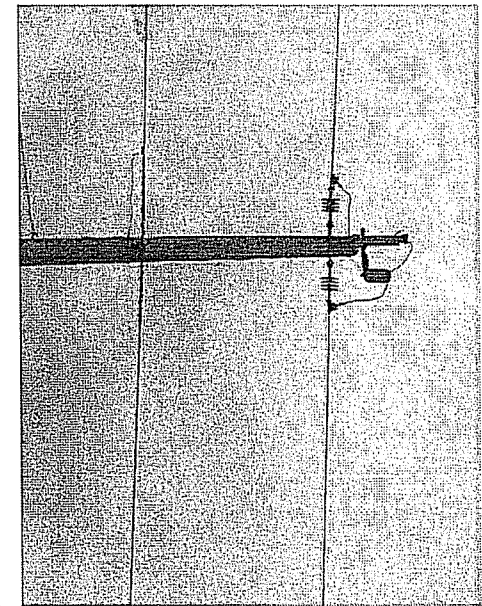
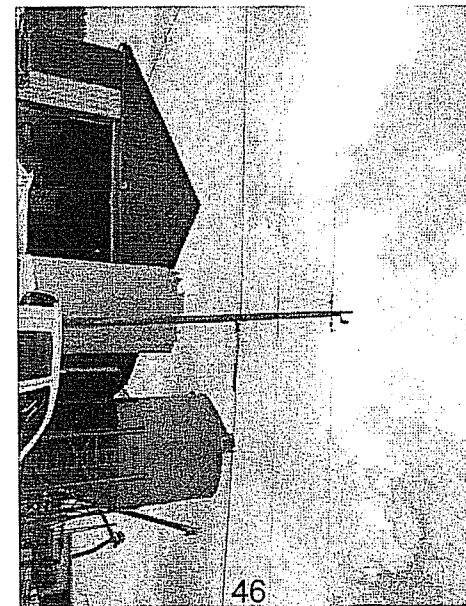
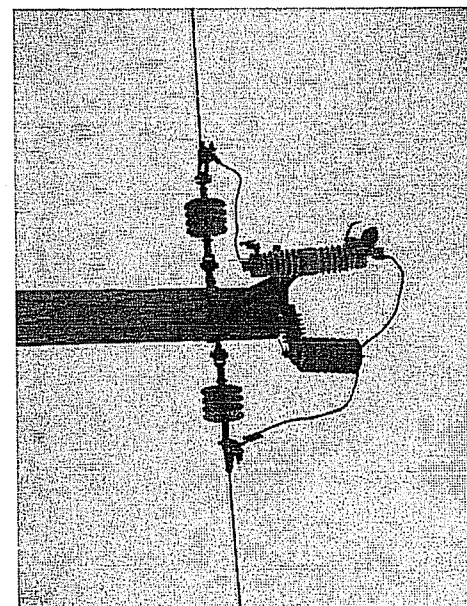
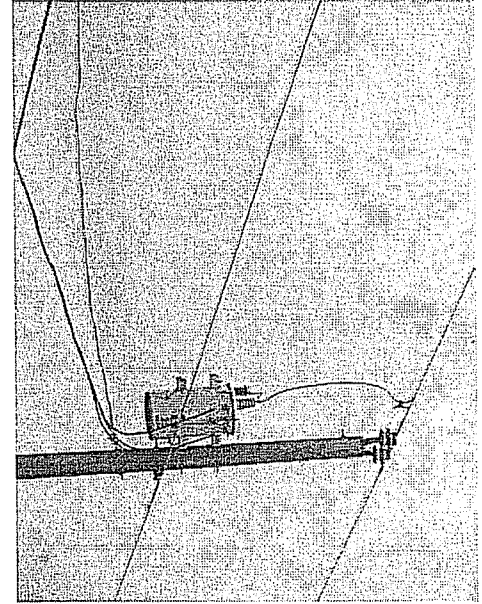
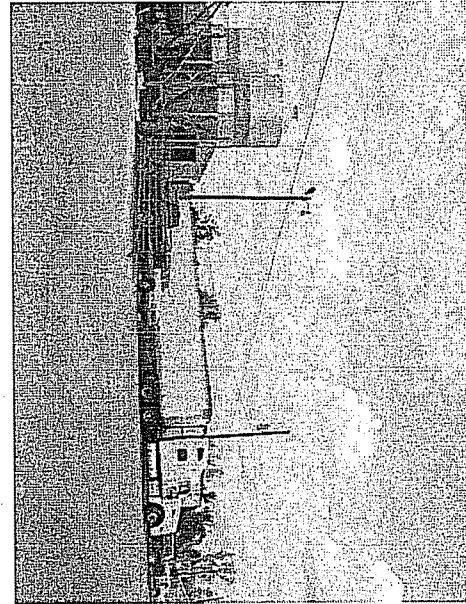
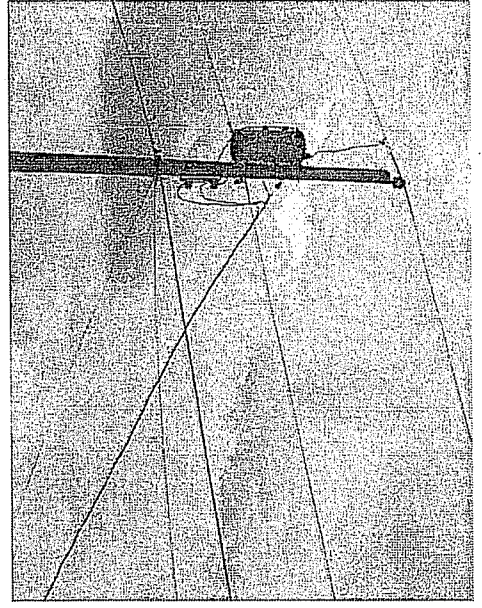
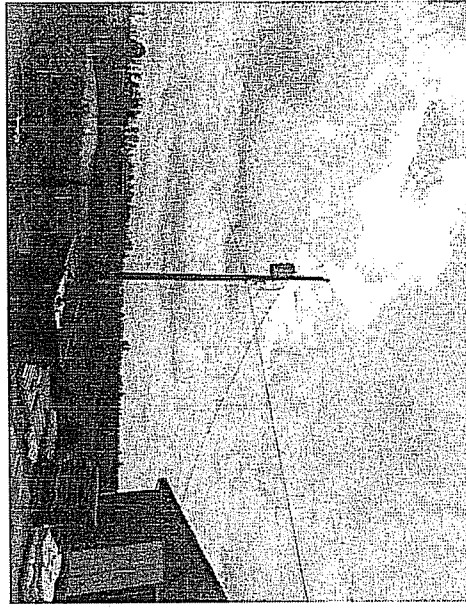
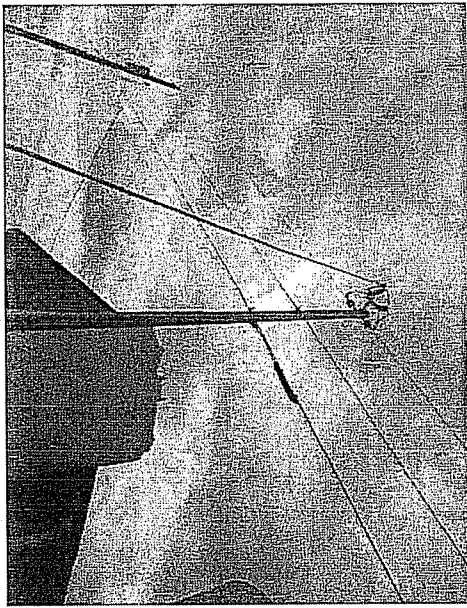


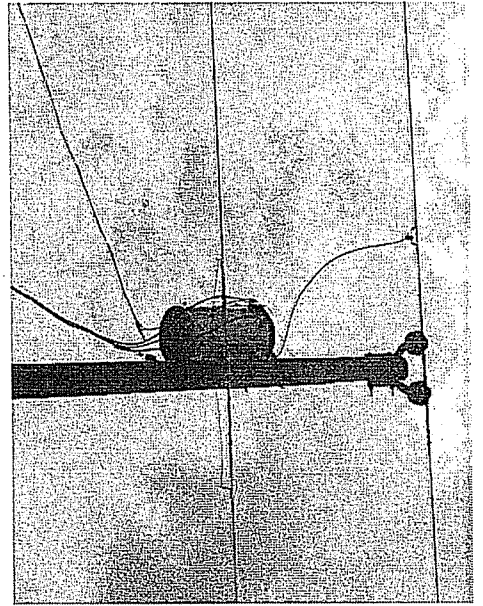
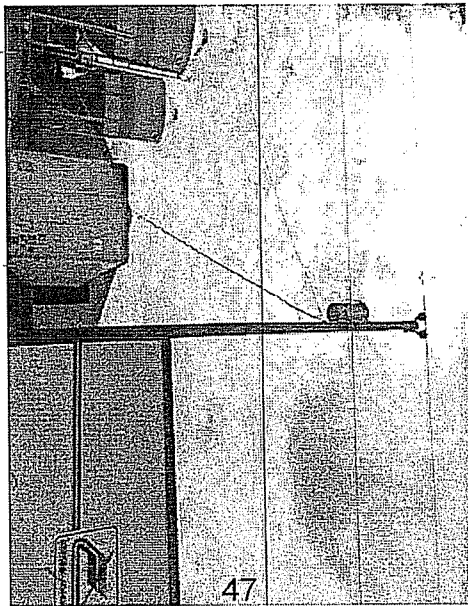
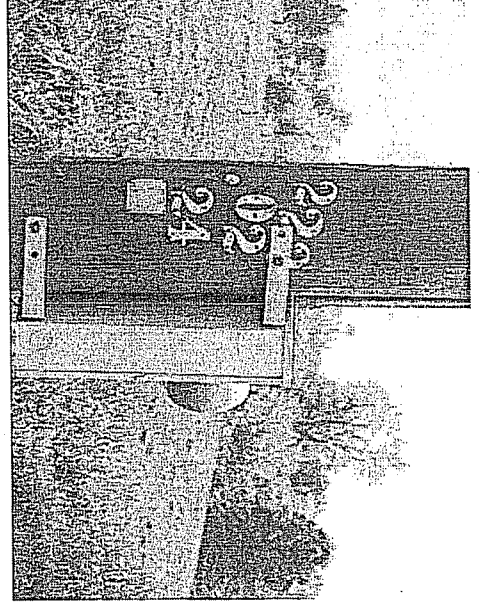
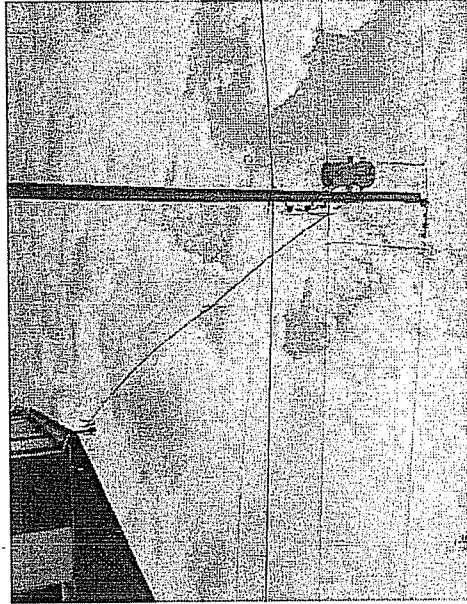
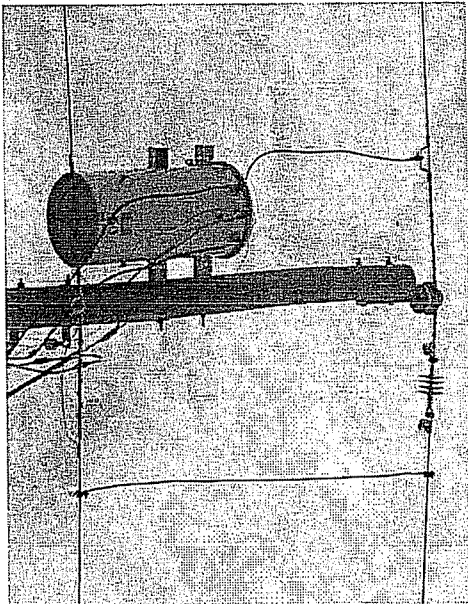
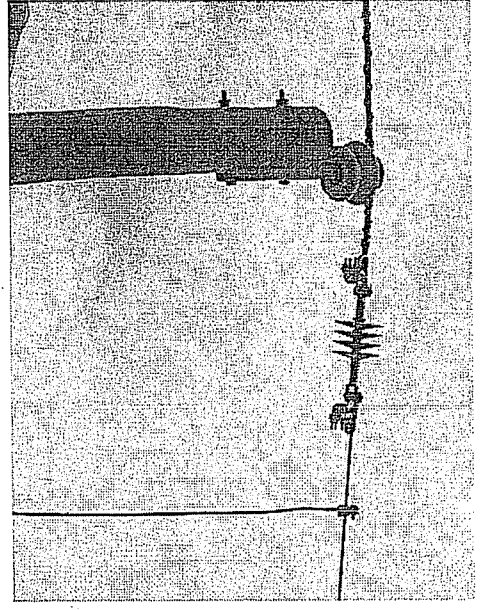
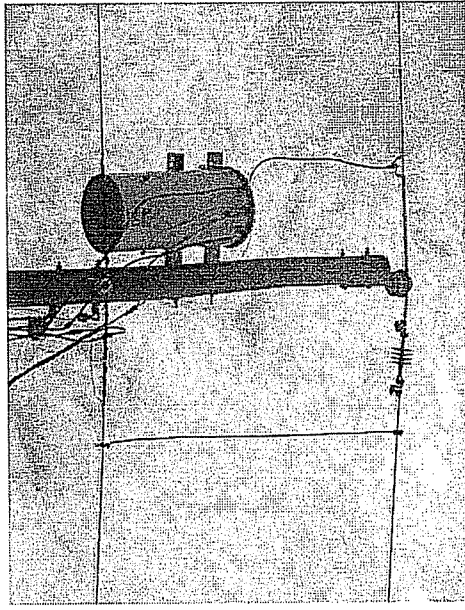
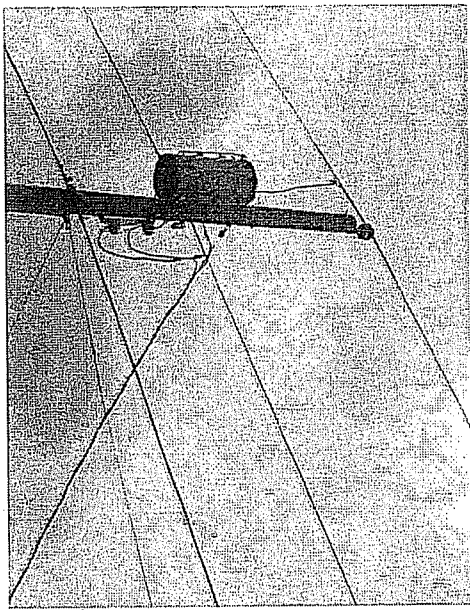
Attachment C

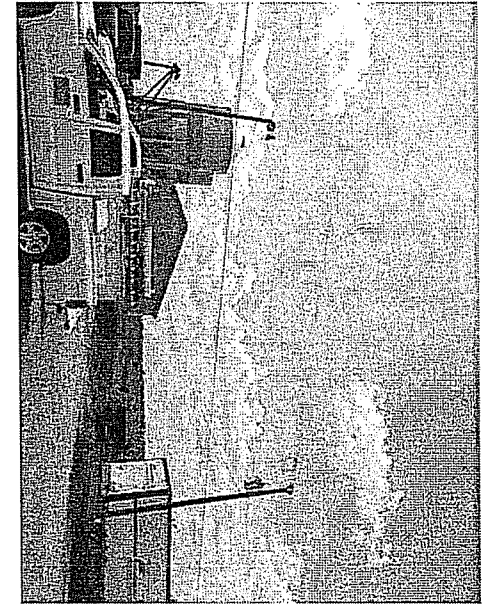
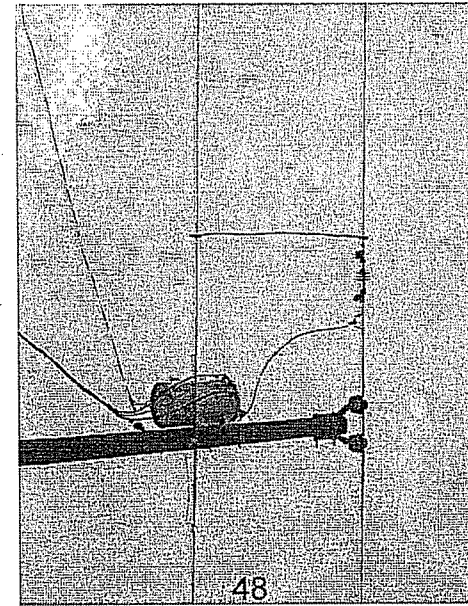
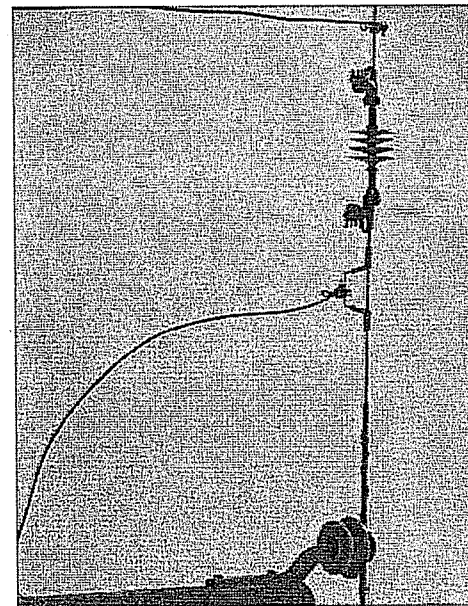
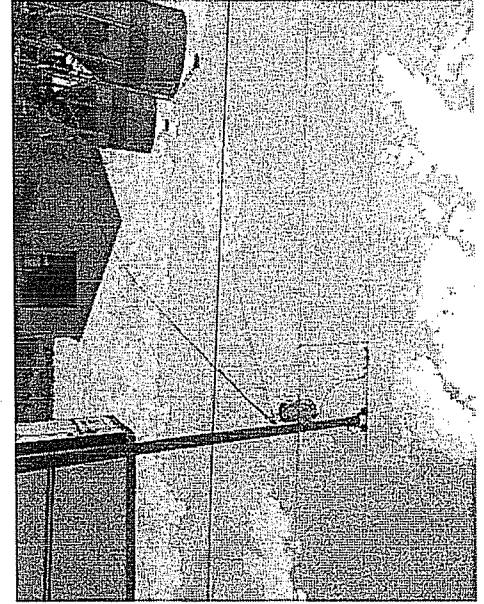
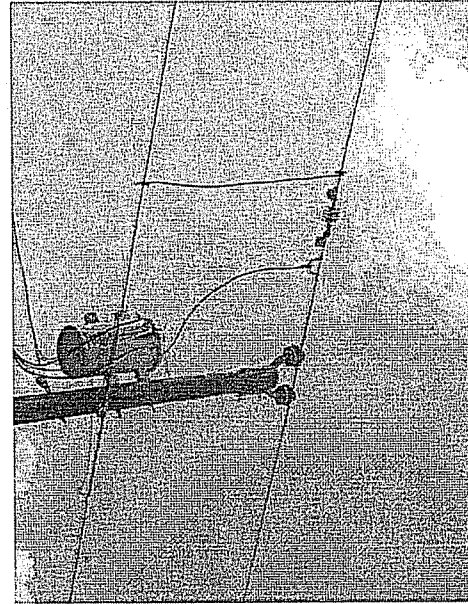
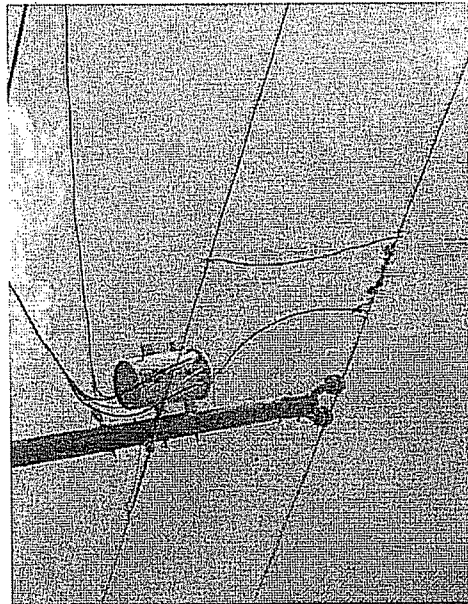
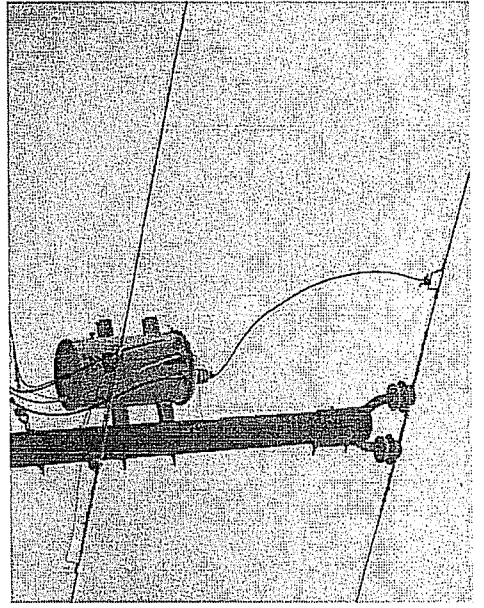
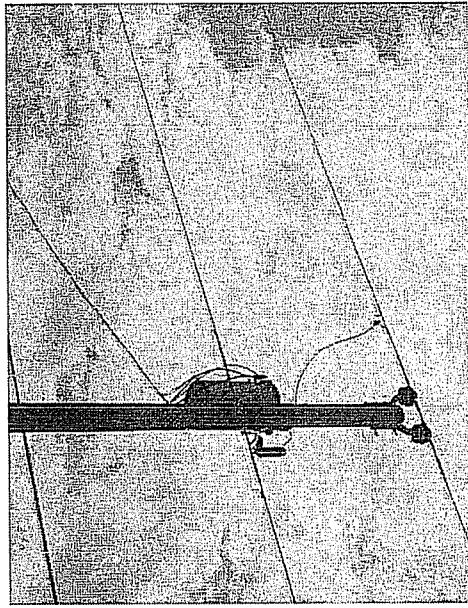
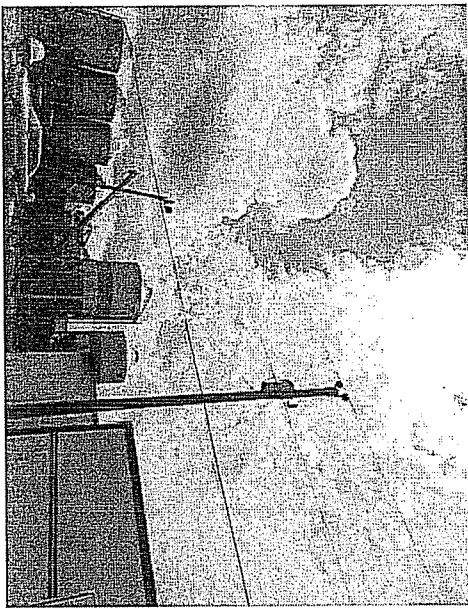
Utility Photographs with Amendment

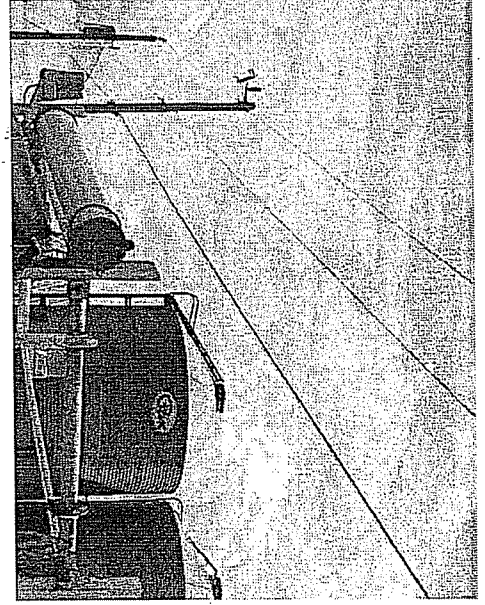
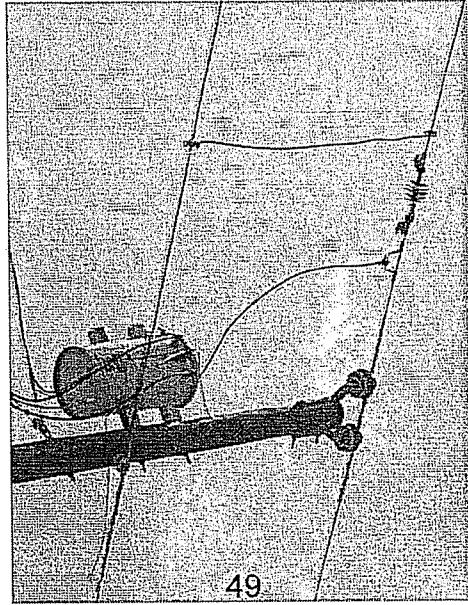
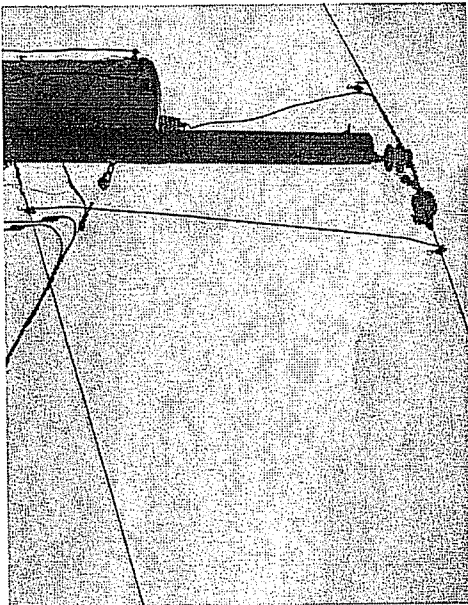
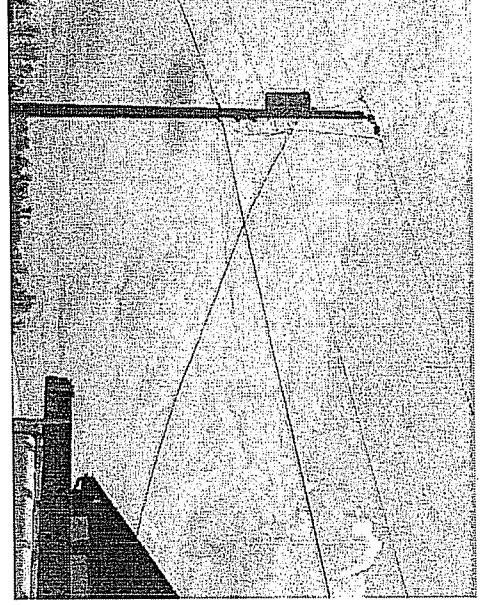
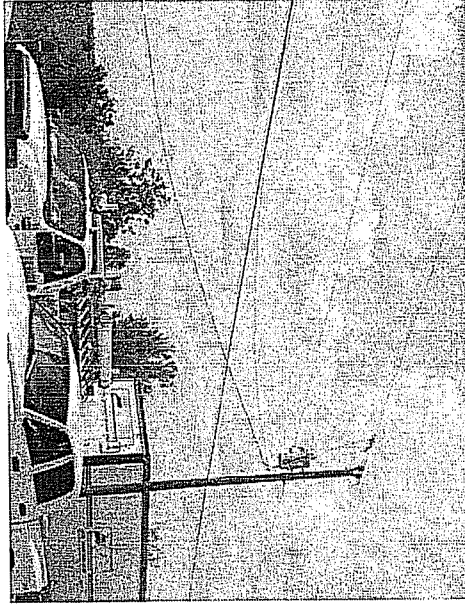
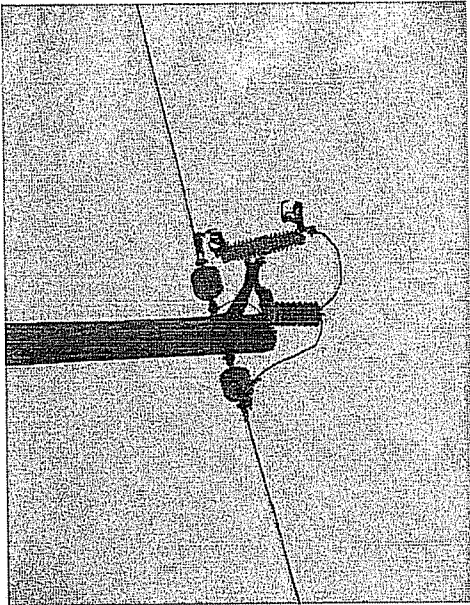
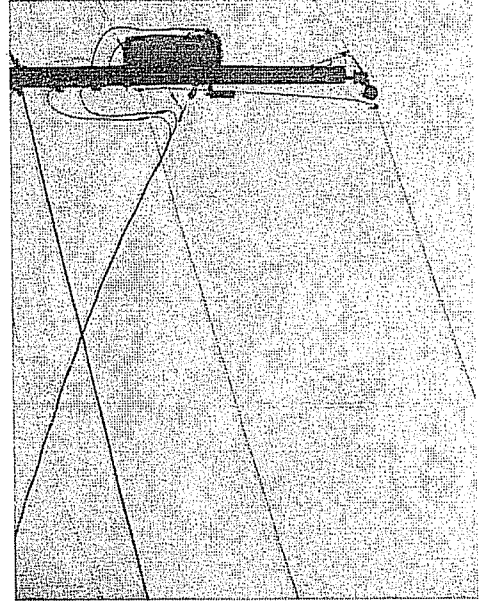
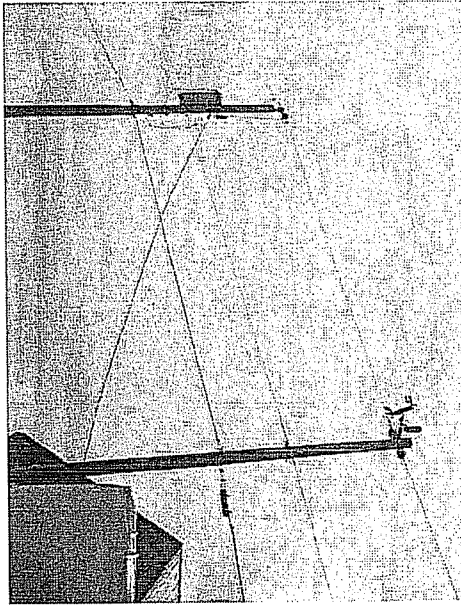
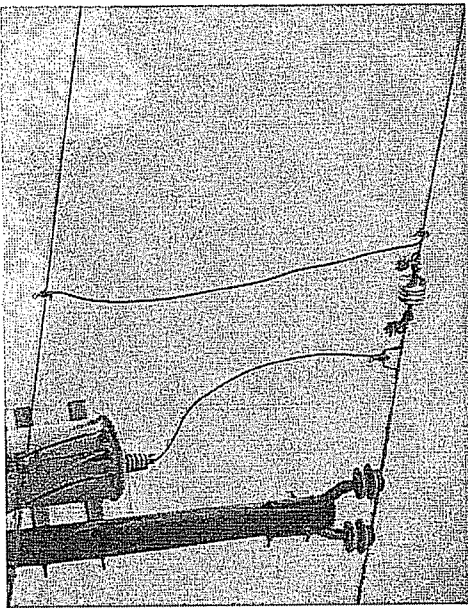


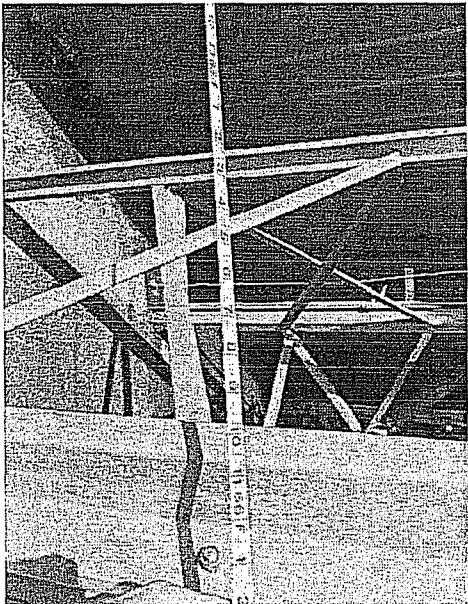
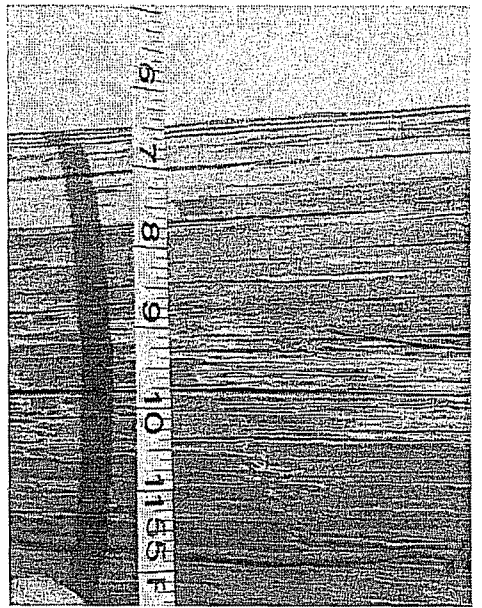
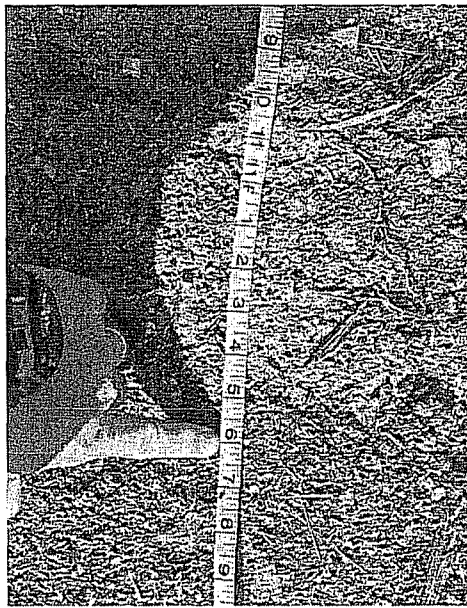


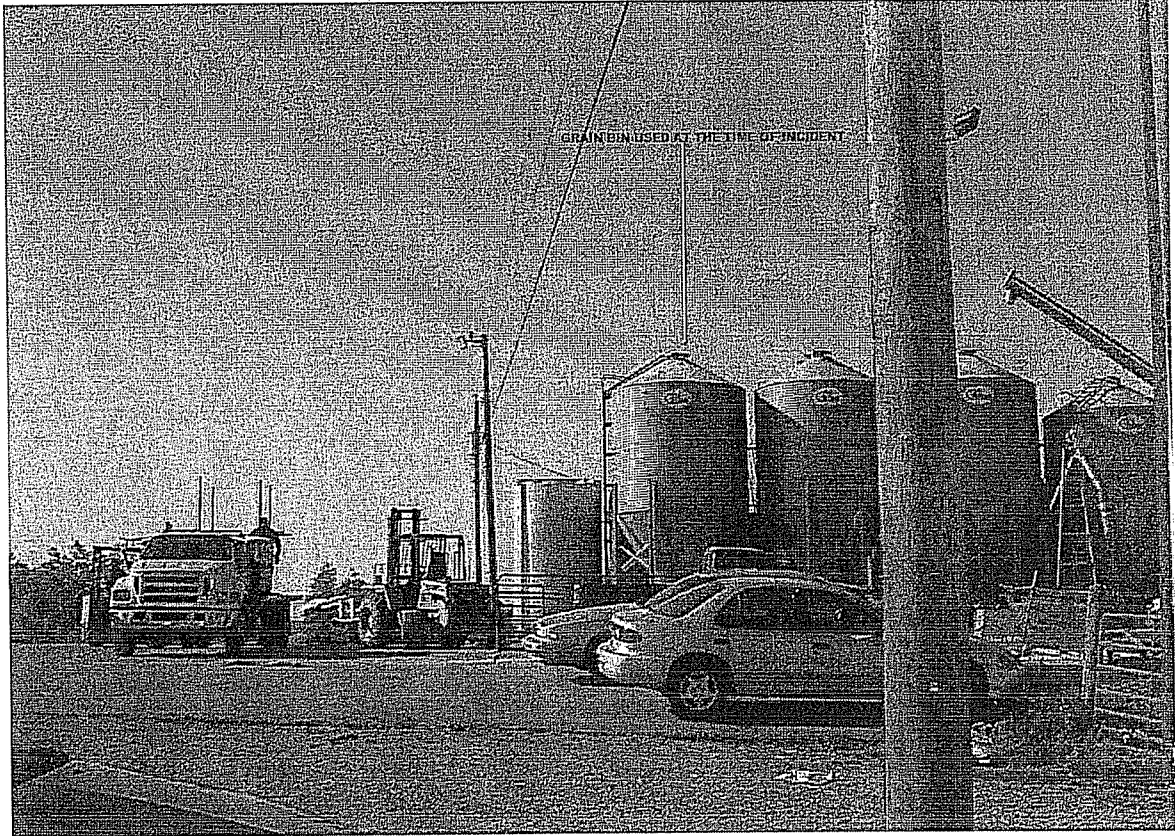




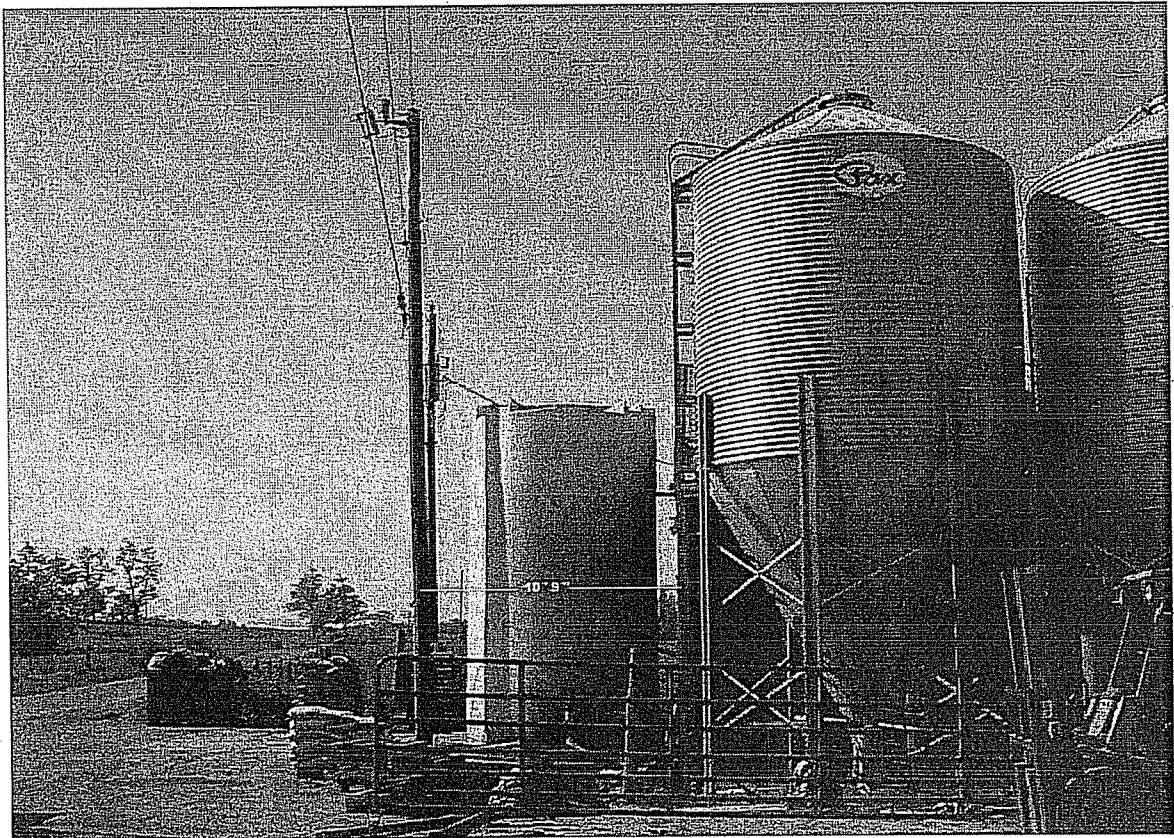


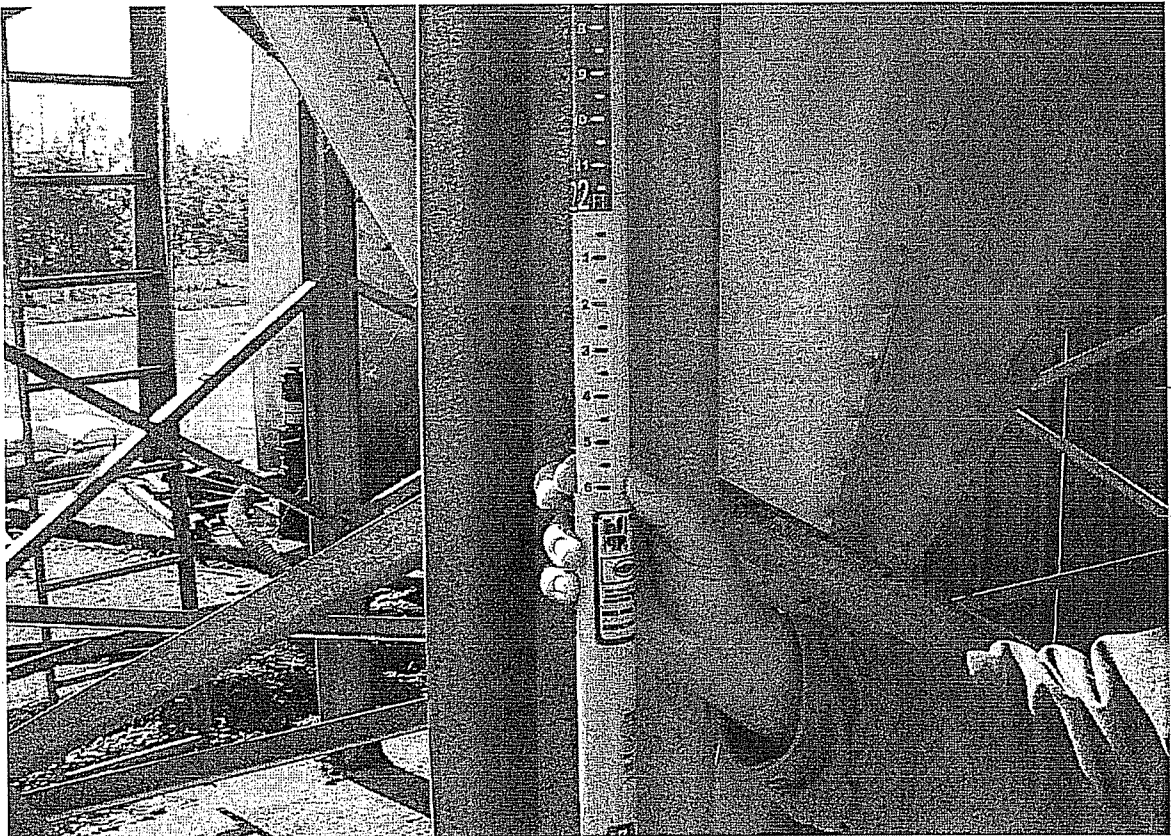
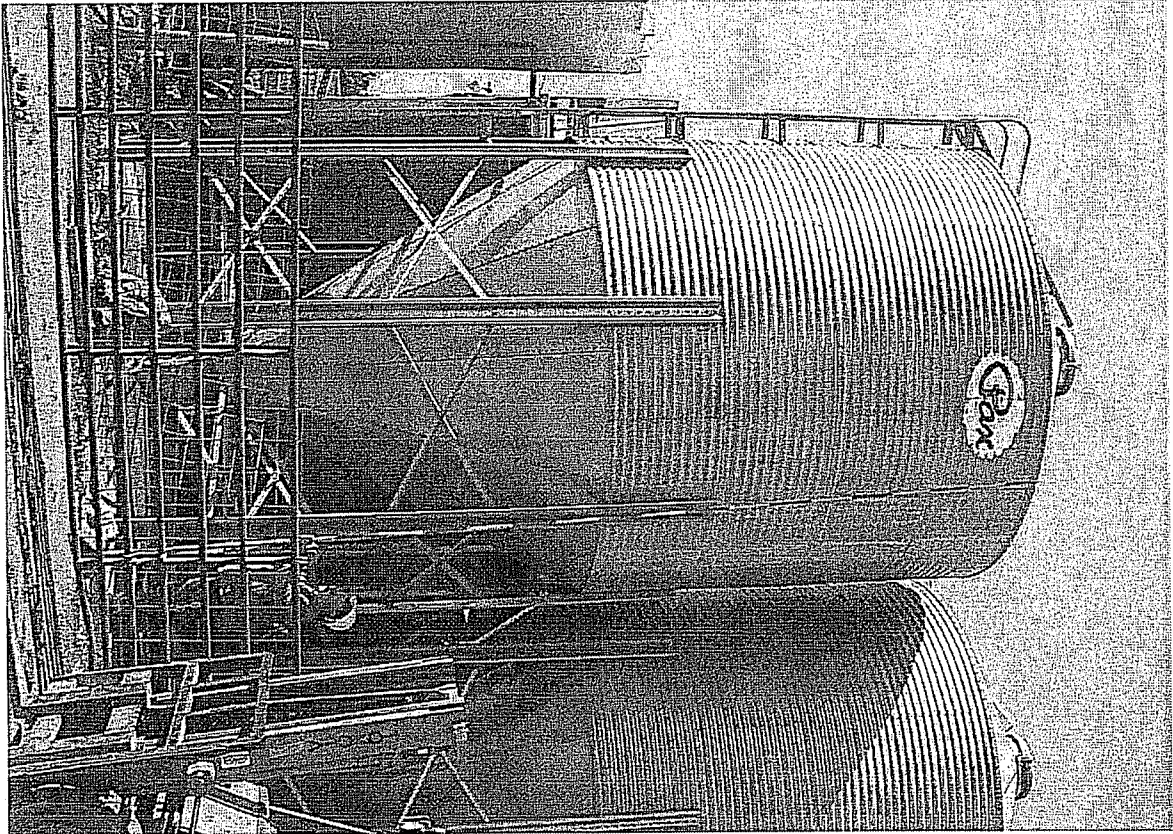


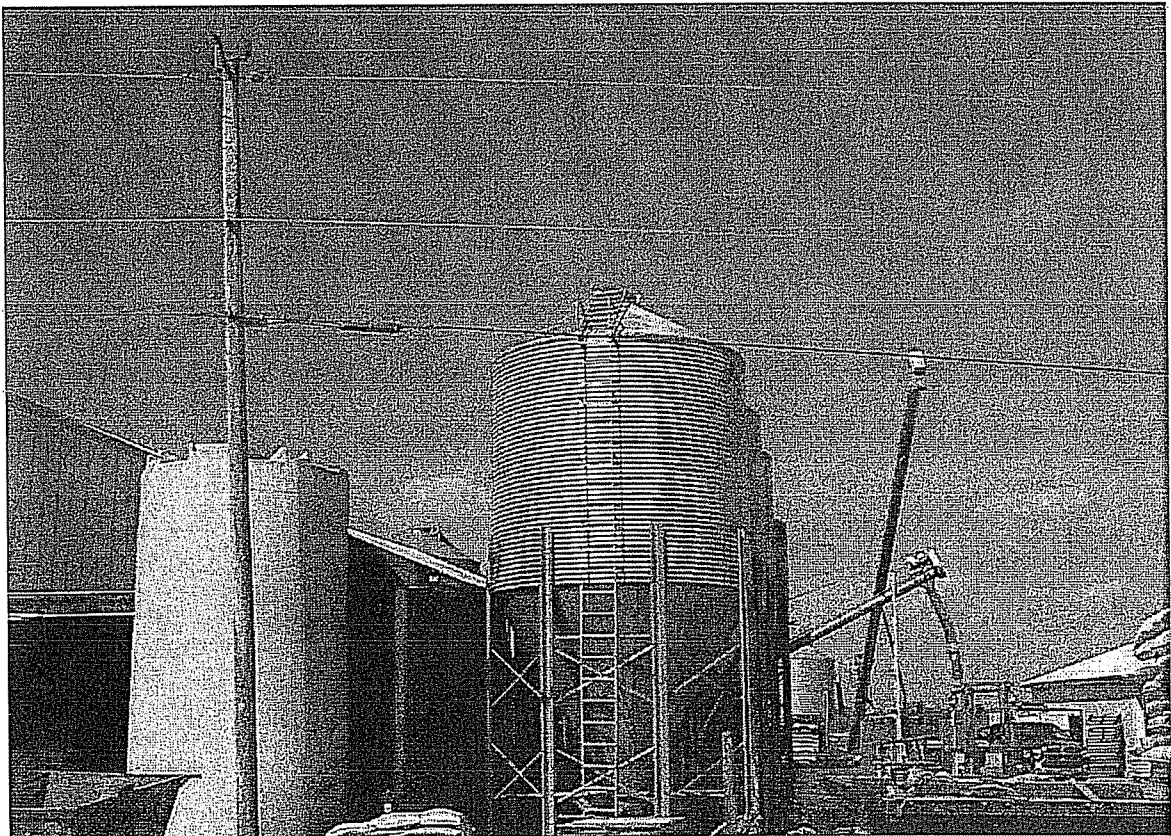
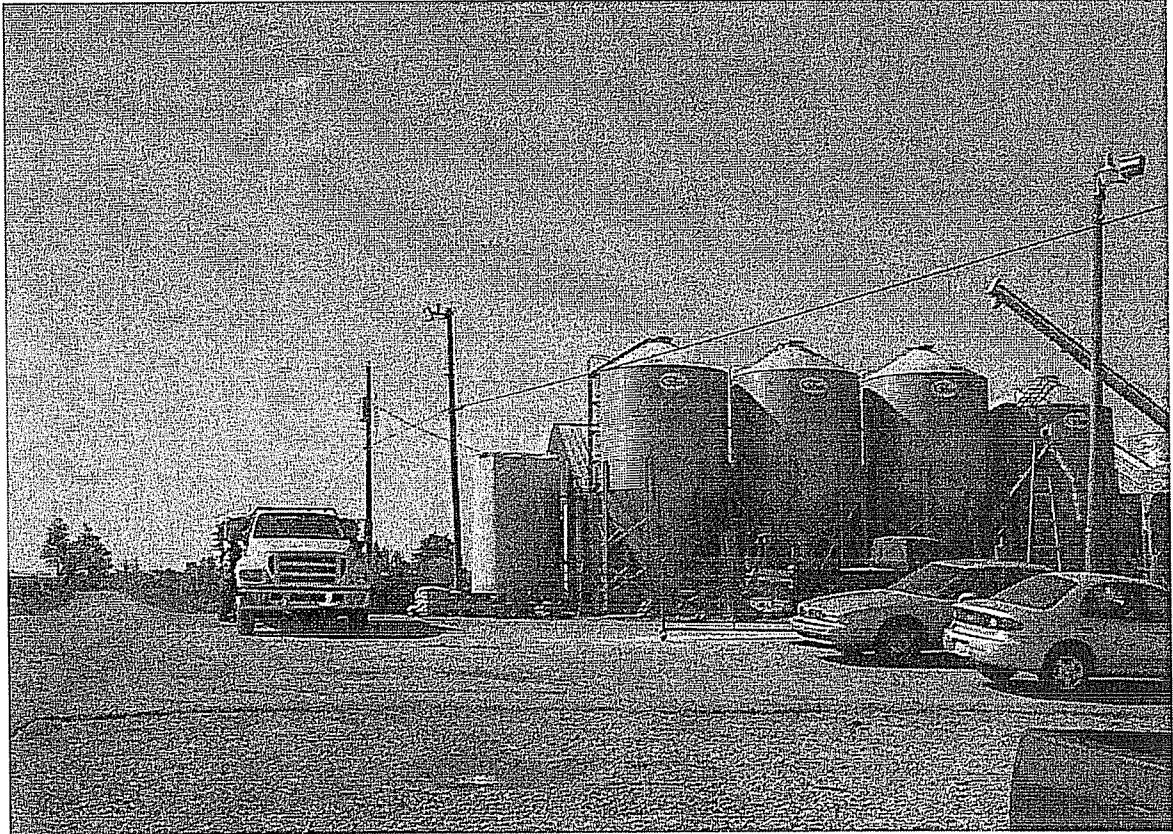


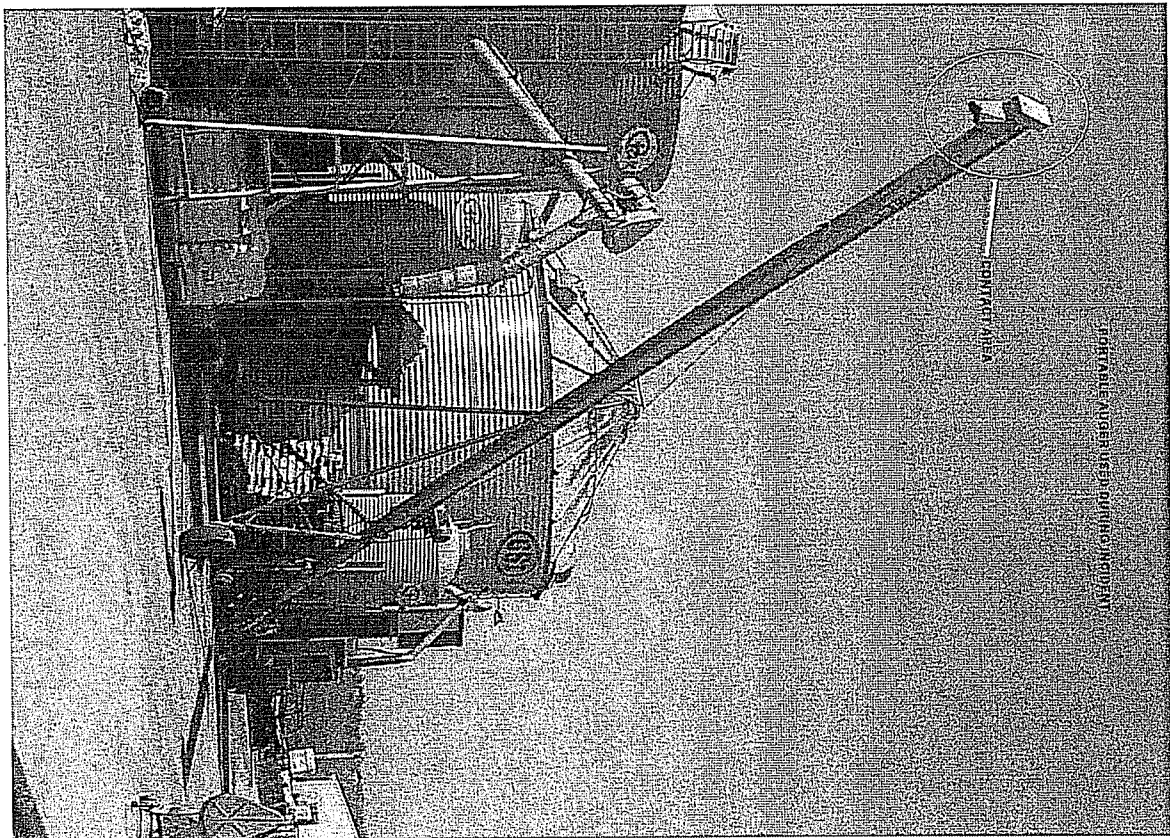


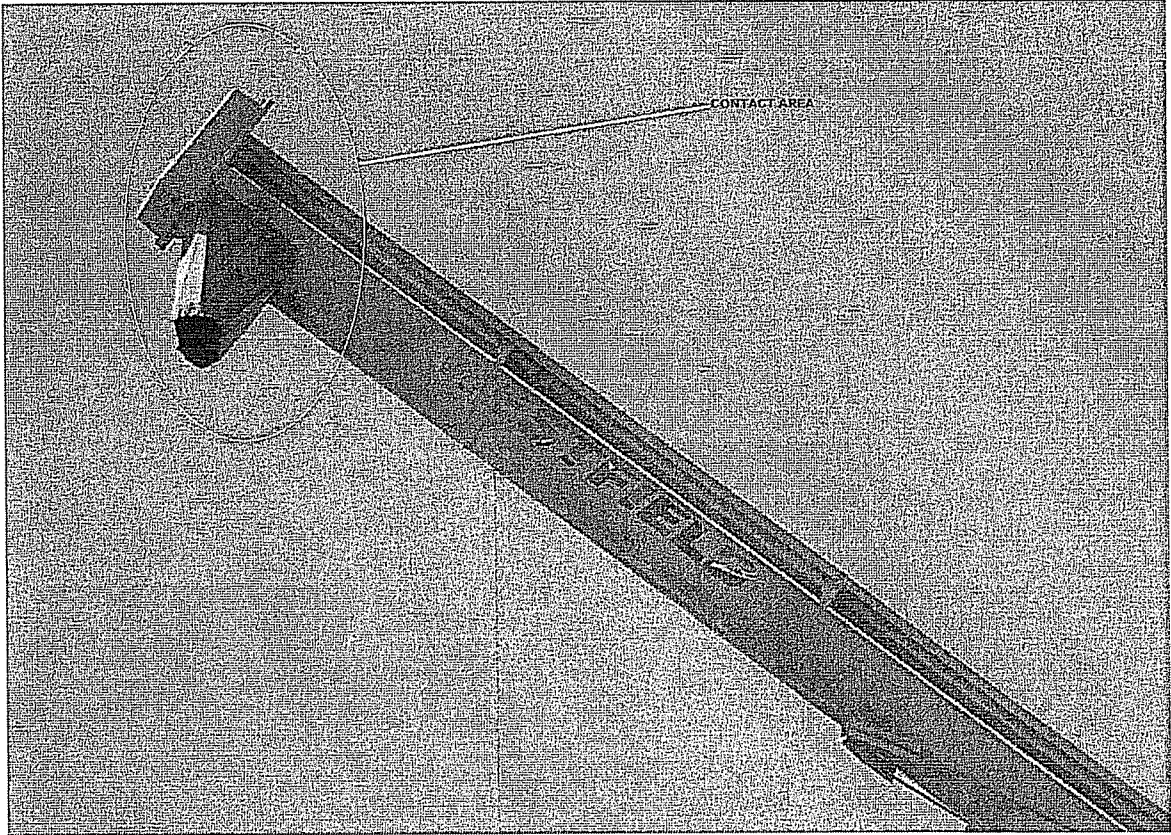
GRAIN STORAGE AT THE TIME OF INCIDENT

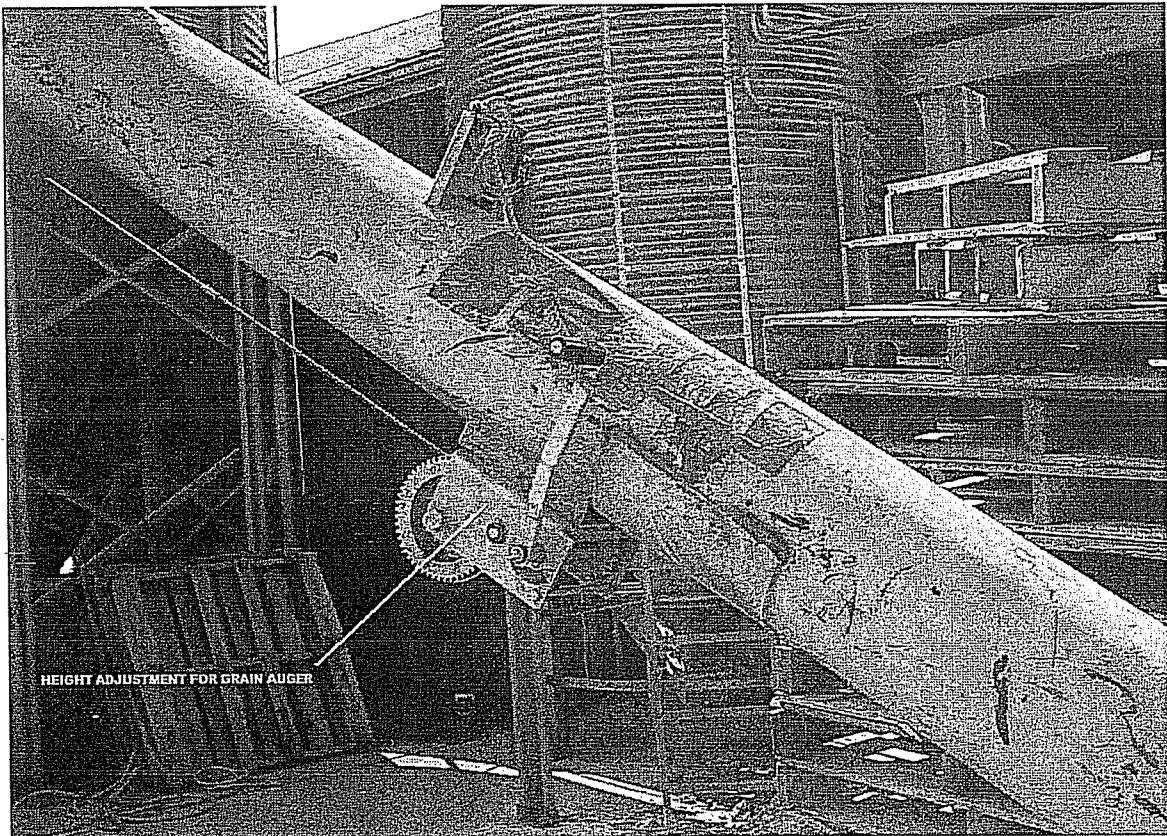
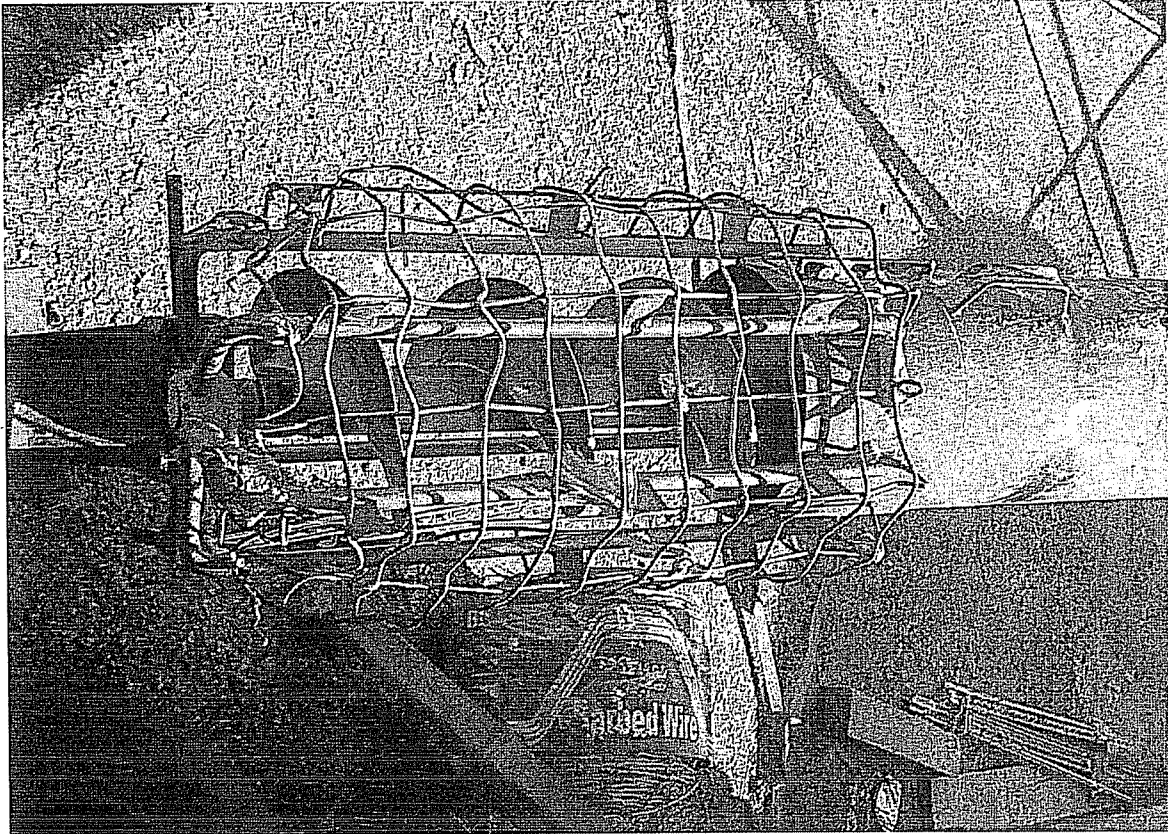


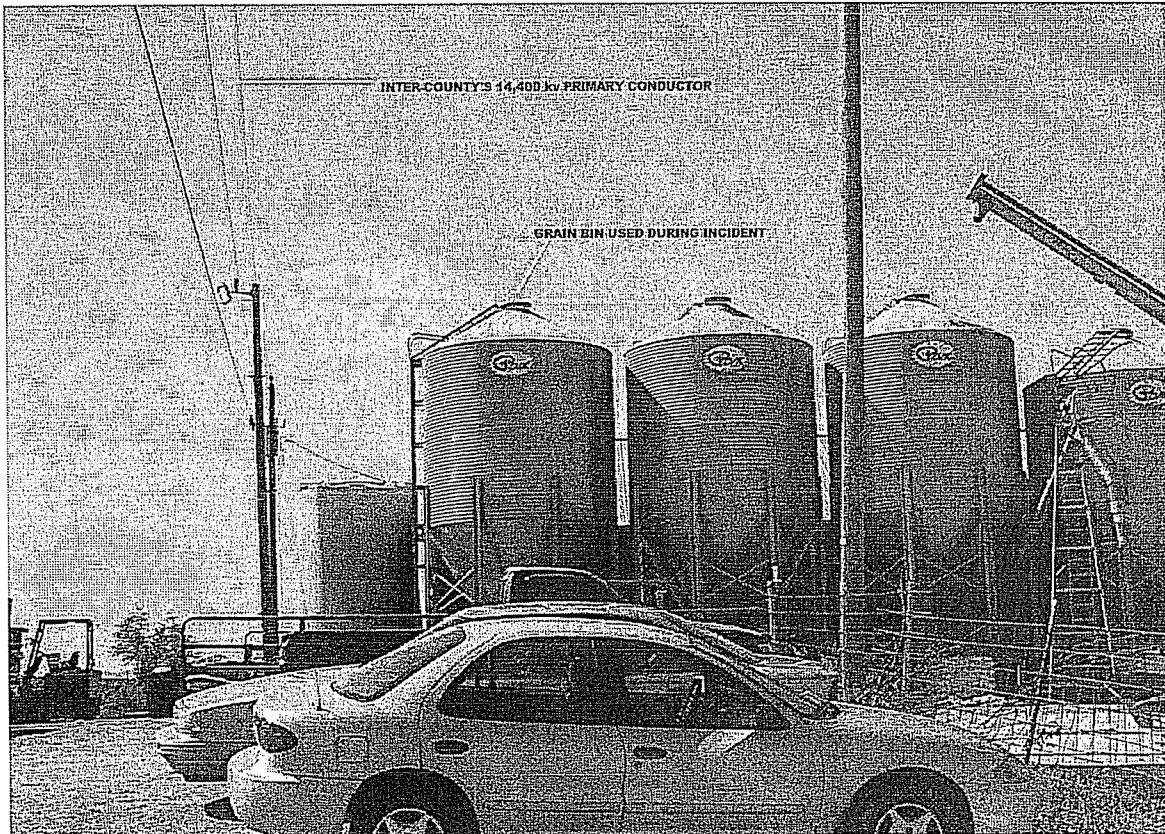


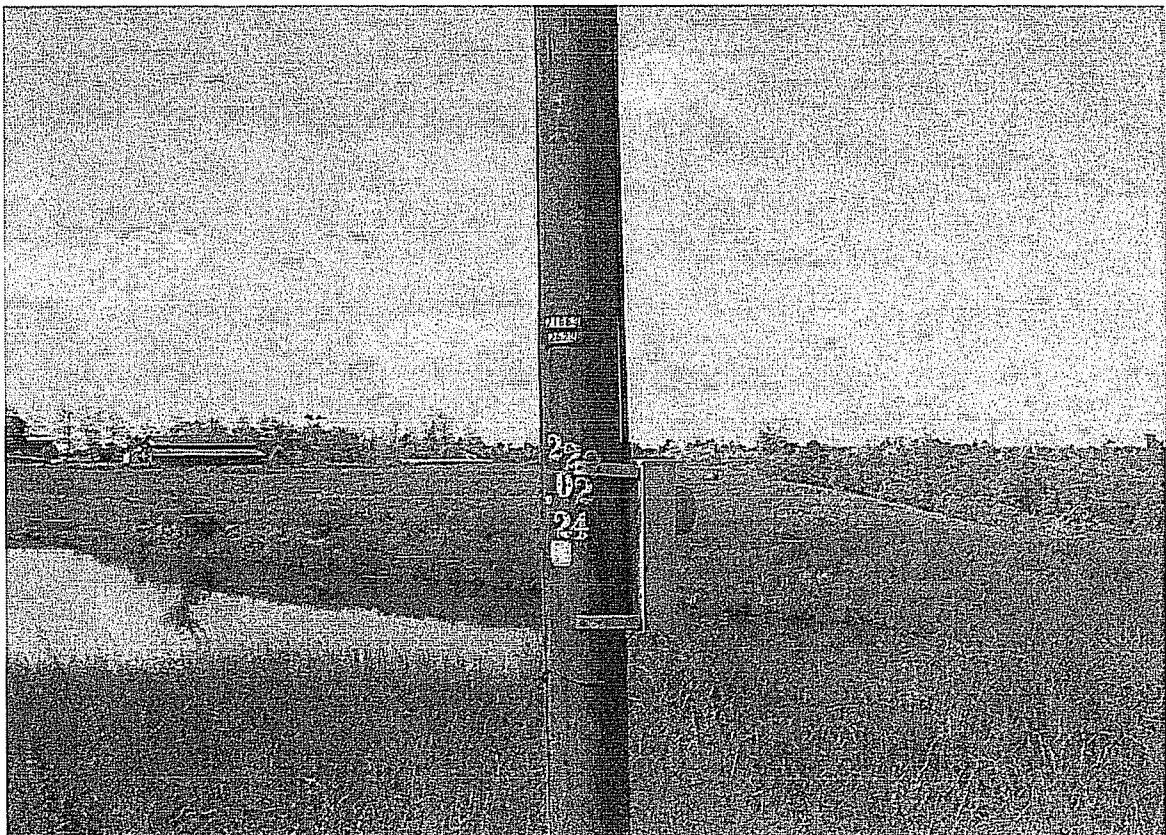


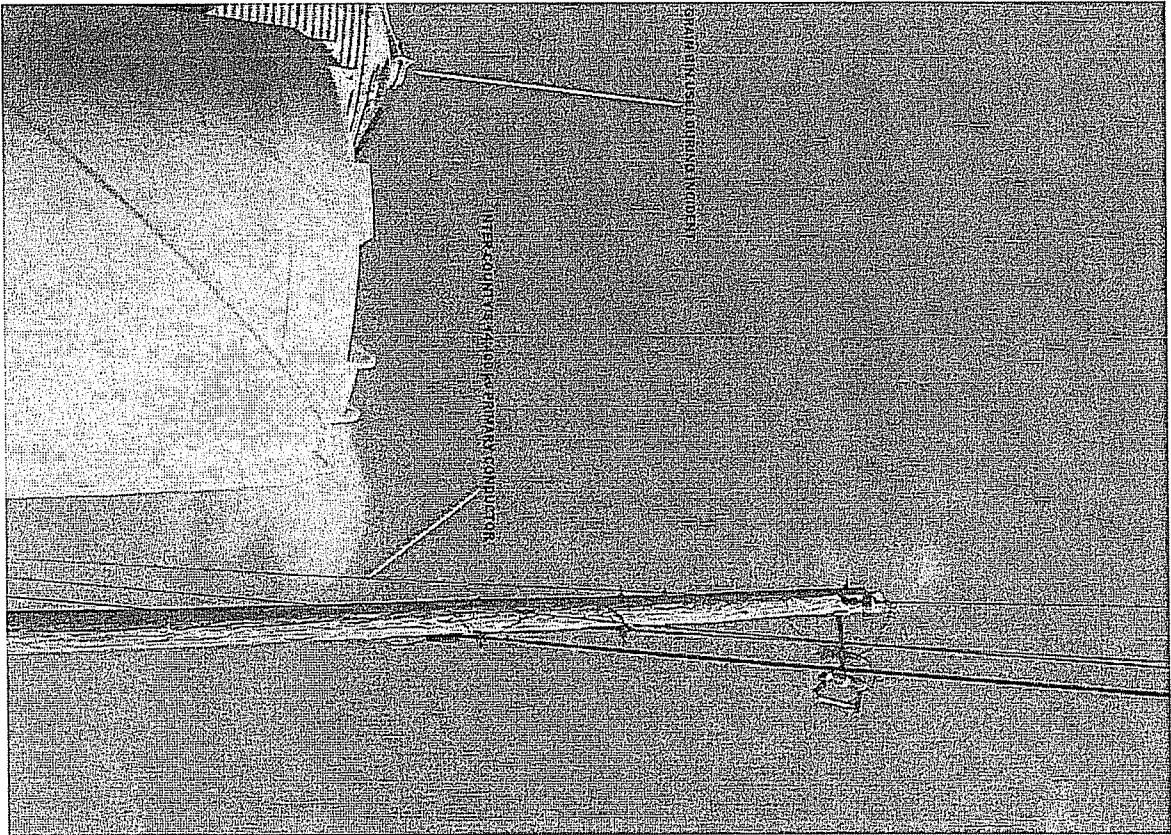












Attachment E

NESC Section 234 (F), (2), (a) and NESC Figure 234-4b

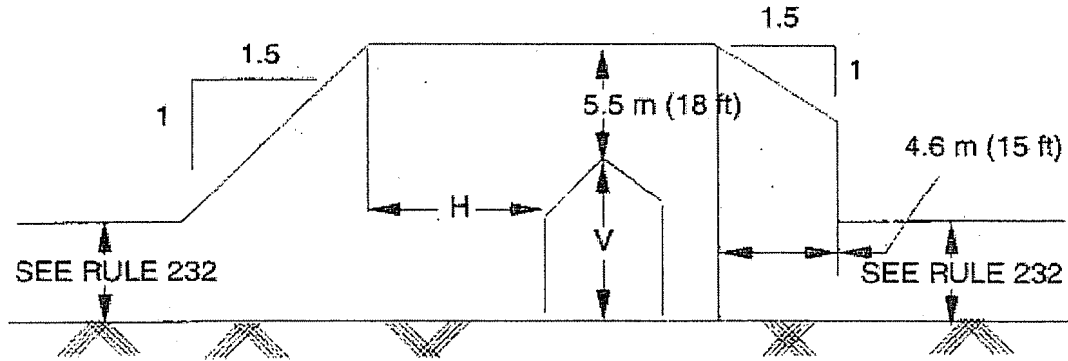
234. Clearance of Wires, Conductors, Cables, and Equipment from Buildings, Bridges, Rail Cars, Swimming Pools, and Other Installations

F. Clearances of Wires, Conductors, Cables, and Rigid Live Parts from Grain Bins

2. Grain Bins Loaded by Portable Augers, Conveyers, or Elevators (With No Wind Displacement)

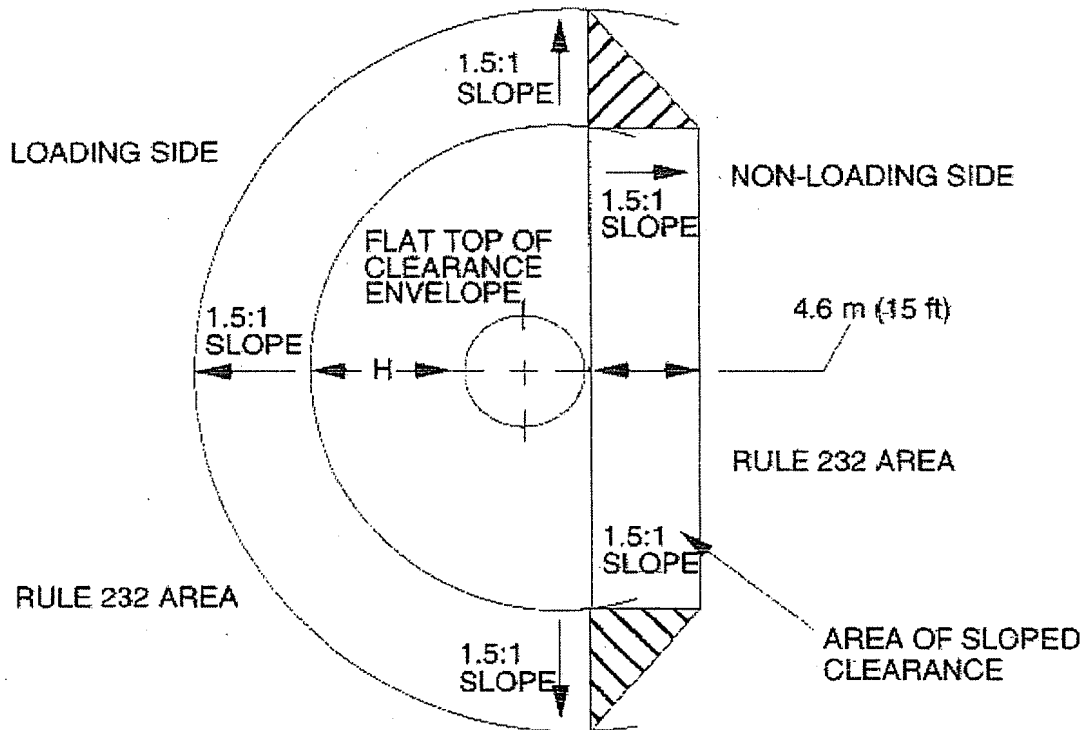
a. The clearance of wires, conductors, cables, and rigid live parts from grain bins that are expected to be loaded by the use of a portable auger, conveyor, or elevator shall be not less than the values illustrated in Fig 234-4b.

Fig 234-4(b): Clearance Envelope for Grain Bins Filled by Portable Augers, Conveyers, or Elevators



V = HEIGHT OF HIGHEST FILLING OR PROBING PORT ON GRAIN BIN

$$H = V + 5.5 \text{ m (18 ft)}$$



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