

COMMONWEALTH OF KENTUCKY  
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

CLOSURE OF INVESTIGATION OF	)	
MARCH 8, 2018 INCIDENT – INTER-COUNTY	)	CASE NO.
ENERGY COOPERATIVE CORPORATION	)	2018-00268

ORDER

The Commission, on its own motion, initiates this proceeding to close the investigation of an incident that occurred on March 8, 2018, when an individual using a metal pole to clear clogged grain bin equipment made contact with an Inter-County Energy Cooperative Corporation (Inter-County) energized overhead primary conductor, in Marion County, Kentucky. Commission Staff (Staff) investigated the incident and found one probable violation of the National Electrical Safety Code. Staff issued Inter-County a Demand for Remedial Measures and Penalty Assessment, a copy of which is attached to this Order as an Appendix, to resolve all compliance and enforcement matters pertaining to the March 8, 2018 incident. Inter-County paid the proposed penalty and completed all remedial measures required by Staff.

The Commission finds that Inter-County has addressed to its satisfaction the probable violations cited by Staff in connection with the March 8, 2018 incident. The Commission further finds that the Commission’s investigation of the incident should be closed.

IT IS THEREFORE ORDERED that:

1. Inter-County’s payment of Staff’s proposed penalty and completion of remedial measures required by Staff is accepted and resolves all alleged violations of

KRS 278.042 or 807 KAR 5:041, as well as any penalty that could be assessed under KRS 278.990(1), arising out of the March 8, 2018 incident.

2. The Commission's investigation of the March 8, 2018 incident is closed.
3. This case is closed and removed from the Commission's docket.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

By the Commission

ENTERED  
AUG 17 2018  
KENTUCKY PUBLIC  
SERVICE COMMISSION

ATTEST:

  
Executive Director

Steven F. Pinson

APPENDIX

APPENDIX TO AN ORDER OF THE KENTUCKY PUBLIC SERVICE  
COMMISSION IN CASE NO. 2018-00268 DATED **AUG 17 2018**



Matthew G. Bevin  
Governor

Charles G. Snavely  
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) 564-3460  
psc.ky.gov

Michael J. Schmitt  
Chairman

Robert Cicero  
Vice Chairman

Talina R. Mathews  
Commissioner

June 19, 2018

Jerry W. Carter  
President and CEO  
Inter-County Energy Cooperative Corporation  
P.O. Box 87  
Danville, KY 40423-0087

Re: March 8, 2018 Incident

### **DEMAND LETTER**

Dear Mr. Carter:

This letter is in reference to an incident that occurred on March 8, 2018, at 1040 Spencer Hamilton Road in Marion County, Kentucky, when a metal pole held by Joey Cissell made contact with an Inter-County Energy Cooperative Corporation (Inter-County) energized overhead primary conductor, resulting in burn injuries to Mr. Cissell. Kentucky Public Service Commission Staff (Staff) investigated the incident and prepared the attached Staff Incident Investigation Report (Report).

According to the Report, Mr. Cissell was mixing feed for his cattle from a grain bin when the equipment clogged. Mr. Cissell was attempting to clear the clog with a 16-foot, two-inch metal pole when the pole made contact with the conductor. Mr. Cissell sustained burn injuries for which he was treated at the University of Louisville Burn Center and released.

The National Electrical Safety Code (NESC), Part 2, Section 23, Rule 234F(2)(a) establishes a minimum clearance envelope for grain bins loaded by portable auger, conveyer or elevator for both the loading side and non-loading side. During its investigation, Staff determined that the conductor was on the loading side of the grain bin and that Inter-County failed to maintain the minimum clearance as required by the NESC for the loading side of grain bins.

KRS 278.042 provides that the Commission shall 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 regulation and orders and in the most recent edition of the NESC. 807 KAR 5:041, Section 3(1) requires each electric

utility to construct and maintain its plant and facilities in accordance with accepted engineering practices, adopting the provisions of the NESC as applicable standards of accepted good engineering practices. Based on its investigation of the incident, Staff determined that Inter-County committed a probable violation of 807 KAR 5:041, Section 3(1) by failing to maintain its plant and facilities in accordance with accepted engineering practices.

### CIVIL PENALTY

KRS 278.990(1) provides that a utility's willful violation of any of the provisions of KRS Chapter 278, or any administrative regulation promulgated pursuant thereto, shall subject the utility to a civil penalty assessed by the Commission not to exceed \$2,500 for each violation. After investigation of this matter, it is Commission Staff's recommendation that Inter-County be subject to a civil penalty in the amount of \$2,500 for its failure to maintain the required minimum clearance, as established by the NESC, for the overhead primary conductor with which the metal pole being held by Mr. Cissell came into contact.

If Inter-County does not wish to contest the proposed civil penalty, Inter-County should mail or deliver a company check, cashier's check or money order made payable to the "**Kentucky State Treasurer**" in the amount of \$2,500, within 30 days of the date of this letter, to:

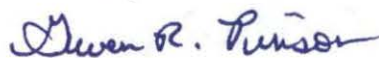
Kentucky Public Service Commission  
211 Sower Blvd.  
Frankfort, Kentucky, 40602

Payment of the proposed civil penalty will satisfy and resolve any and all claims against Inter-County for any violation of KRS 278.042 or of 807 KAR 5:041, Section 3(1) and for any penalty under KRS 278.990 arising out of the March 8, 2018 incident. Inter-County's payment of the proposed civil penalty will not be considered an admission by Inter-County that it willfully violated any provision of KRS Chapter 278 or any administrative regulation promulgated pursuant thereto. Upon payment of the proposed penalty, the Commission will confirm resolution of this matter by entry of an order.

If Inter-County does not pay the proposed civil penalty within 30 days of the date of this letter, the Commission will institute an administrative proceeding against Inter-County and schedule a formal hearing, at which Inter-County will have an opportunity to present evidence and show cause why it should not be subject to penalties in KRS 278.990(1) based on the March 8, 2018 incident.

This Demand Letter addresses only those matters specifically referred to in this document, and in no way waives any obligations or liabilities that may result from other activities by Inter-County. If you have any questions, please contact John Park at 502-782-2589.

Sincerely,



Gwen R. Pinson  
Executive Director

Attachment



Matthew G. Bevin  
Governor

Charles G. Snavelly  
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) 564-3460  
psc.ky.gov

Michael J. Schmitt  
Chairman

Robert Cicero  
Vice Chairman

Talina R. Mathews  
Commissioner

## **ACCIDENT INVESTIGATION STAFF REPORT**

**Report Date:** April 16, 2018

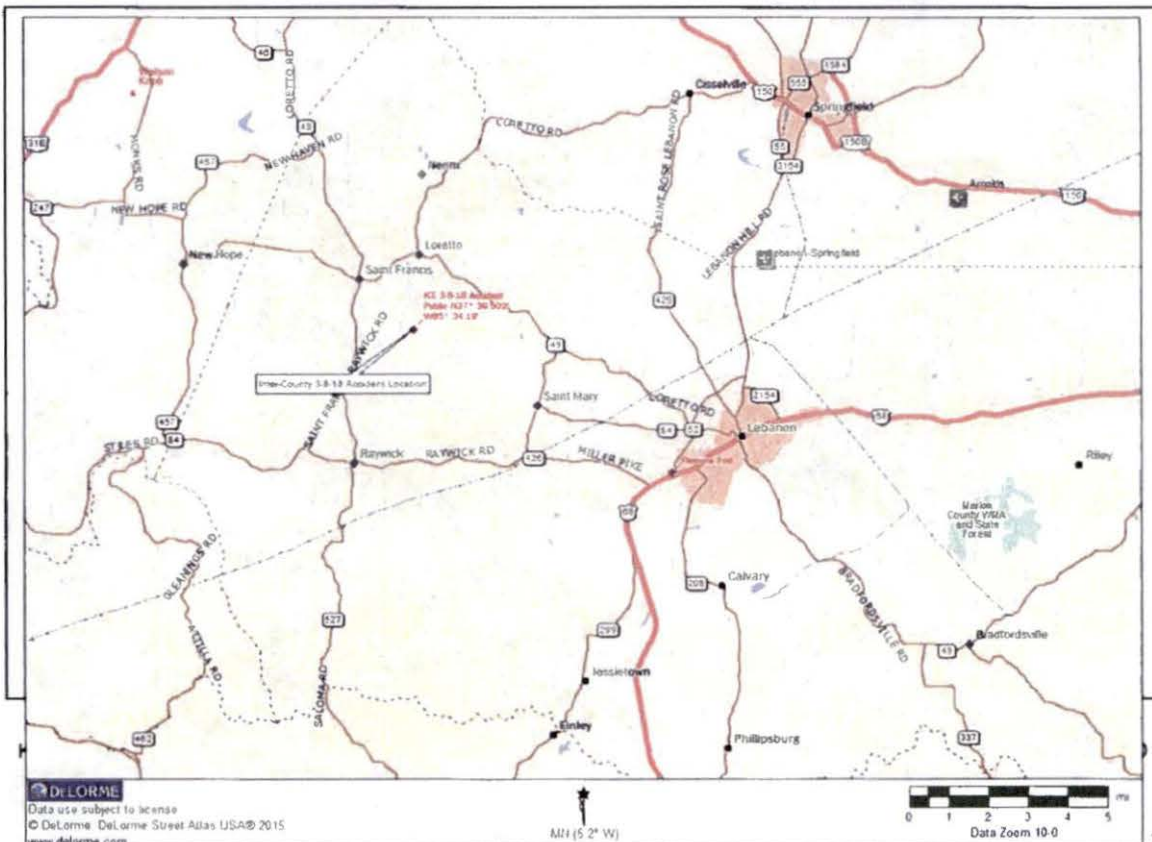
**Accident Date:** March 8, 2018

**Serving Utility:** Inter-County Energy Cooperative Corporation

**Accident Location:** 1940 Spencer Hamilton Road in Marion County,  
Kentucky

**Accident Victim:** Joey Cissell (Public)

**PSC Investigator:** Steve Kingsolver







Matthew G. Bevin  
Governor

Charles G. Snaveley  
Secretary  
Energy and Environment  
Cabinet

Commonwealth of Kentucky  
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Chairman

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Vice Chairman

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Commissioner

## **Electric Utility Employee Injury Accident Report**

**Utility:** Inter-County Energy Cooperative Corporation (ICE)

**Reported by:** David Phelps  
VP Operations and Engineering

**Incident Occurred:** Approximately 4:20PM, March 8, 2018

**Utility Discovered:** Approximately 4:28PM, March 8, 2018

**PSC Notified:** Approximately 6:00PM, March 8, 2018

**Summary Report Received:** March 15, 2018. (See Attachment A)

**PSC On-Site Investigation:** Approximately 9:30AM, March 9, 2018

**Type of Accident:** Public, shock and burn

### **Incident Description:**

This accident took place on March 8, 2018 at approximately 4:20PM at 1940 Spencer Hamilton Road in Marion County, Kentucky. This location is northwest of Lebanon, Kentucky. The Google Earth coordinates for this accident location are 37.608454 - 85.402659.

The victim of this accident, Joey Cissell, was working at this location. He was mixing feed for cattle from this grain bin. The equipment became clogged and the victim climbed the grain bin to free the clog. The victim was using a metal pole approximately 16' 2" long to try to remove the clog. While in the process of removing the clog with the metal pole in his hands, the metal pole made contact with an Inter-County Energy

energized primary conductor energized at approximately 14,400 volts. The victim received treatment at the scene from Marion County EMS and was transported by helicopter to University of Louisville Burn Center. The information received the day after the accident indicated the injuries were not life-threatening.

After reviewing all of the information concerning this accident, it appears that the Inter-County Energy energized primary conductor involved in this accident was not in compliance with the NESC clearance requirements for grain bins filled by portable augers, conveyors or elevators. The energized primary conductor was in the loading zone of this grain bin.

**See Attachment E:** Grain Bin Figure 234-4 (b) (Clearance envelope for grain bins filled by portable augers, conveyors or elevators) (Page 139) (NESC)

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<b>Victim:</b>	<b>Name:</b>	<b>Position:</b>	<b>Employer:</b>
	Joey Cissell	Public Contact	Farmer

<b>Witnesses:</b>	<b>Name:</b>	<b>Position</b>	<b>Employer:</b>
	None		

<b>Information from:</b>	<b>Name:</b>	<b>Position:</b>	<b>Employer:</b>
	David Phelps	VP of Engineering and Operations	ICE
	David Turner	Crew Leader	ICE
	Bo McGuffey	Lineman, Maintenance Tech	ICE
	Kenny Gribbins	Construction Superintendent	ICE
	Jessie Turpin	System Engineer	ICE

**Temp & Weather:** Clear and approximately 40°

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**FINDINGS:**

It is the investigator's opinion that Inter-County Energy did not meet the following requirements set forth in the National Electrical Safety Code (NESC) concerning grain bin clearance to energized primary voltage conductors.

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**RELEVANT CODES, STATUTES, REGULATIONS, OR SAFETY MANUAL ISSUES THAT ARE PERTINENT TO THE INVESTIGATION**

278.042 Service adequacy and safety standards for electric utilities  
National Electrical Safety Code

(1) For the purposes of this section, "NESC" means the National Electrical Safety Code as published by the Institute of Electrical and Electronics Engineers, Inc.

(2) Except as otherwise provided by law, the commission shall, in enforcing service adequacy and safety standards for electric utilities, 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 NESC.

Effective: June 24, 2003

History: Created 2003 Ky. Acts Ch. 84, sec. 1, Effective June 24, 2003.

2017 National Electric Safety Code:

See 2017 NESC Code to view each rule in its entirety.

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**#1:**

**National Electrical Safety Code (P-131)**

Part 2. Safety Rules for the Installation and Maintenance of Overhead Electric Supply and Communication Lines

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 Figure 234-4(b).

*EXCEPTION:* Clearances of the following items on the non-loading side of grain bins shall be not less than those required by Rule 234C for clearances from buildings:

- (a) Support arms; effectively grounded equipment cases
  - (b) Insulated communication conductors and cables, messengers, surge-protection wires, effectively grounded guys, neutral conductors meeting Rule 230E I, and supply cables meeting Rule 230C I
  - (c) Supply cables of 0 to 750 V meeting Rule 230C2 or 230C3
- b. Any side of a grain bin is considered to be a non-loading side if it is so designated, or if it is so closely abutting another structure or obstruction, or so close to a public road or other right-of-way that a portable auger, conveyor, or elevator is not reasonably anticipated to be used over that side or portion to fill the grain bin.
- c. Where an agreement excludes the use of portable augers, conveyors, or elevators from a designated portion of a grain bin, such portion is considered to be a non-loading side.

**See Attachment E:** Grain Bin Figure 234-4 (b) (Clearance envelope for grain bins filled by portable augers, conveyors or elevators) (Page 139) (NESC)

<b>Investigated by:</b>	<b>Name:</b>	<b>Company:</b>
	Steve Kingsolver	KPSC

Signed: 

Date: 4/16/18


- Attachments:**
- A. ICE Summary Report
  - B. KPSC Photographs of Accident Site
  - C. KPSC Map of Accident Site
  - D. Accident Notification Information
  - E. NESC Grain Bin Diagram
  - F. Site Correction Information

**Attachment A**

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**ICE Summary Report**

  
**INTER COUNTY**  
ENERGY COOPERATIVE

A Touchstone Energy Cooperative 

RECEIVED

MAR 15 2018

PUBLIC SERVICE  
COMMISSION

March 14, 2018

Mr. Steve Kingsolver  
Kentucky Public Service Commission  
211 Sower Boulevard  
Frankfort, KY 40601

**RE: Joey Cissell Public Contact March 8, 2018**

Dear Mr. Kingsolver:

Please find enclosed the seven day summary report of the Joey Cissell public contact on March 8, 2018, as required by 807 KAR 5:006 Section 27-2.

Should you need additional information concerning this summary, please contact David L. Phelps, Vice President of Engineering and Operations at 859-936-7814.

Sincerely,



Jerry W. Carter  
President/CEO

Enclosures

*This institution is an equal opportunity provider and employer.*

MAR 15 2018

PUBLIC SERVICE  
COMMISSION

March 14, 2018

Steve Kingsolver  
Public Service Commission  
211 Sower Blvd.  
PO Box 615  
Frankfort, KY 40602

Re: Joey Cissell Public Contact March 8, 2018

Mr. Kingsolver,

Please allow this document to serve as the seven day summary report as required by 807 KAR 5:006 Section 27-2.

The following is a list of events that took place on March 8, 2018.

- At approximately 4:25pm Kenny Gribbins, Construction Superintendent, wife overheard on a personal scanner that there had been an electrical contact in Marion County.
- At 4:28pm Kenny called Marty Luttrell, Crew Leader, and asked if his crew was okay. Marty informed Kenny that Larry Wheatley, Serviceman for Marion County, knew of a dozer operator that was cleaning a fence row in the vicinity of Inter County lines.
- Approximately 4:30pm Larry called the dozer operator and verified that he was okay and not involved with the accident.
- Following this phone call Larry called Marion County 911 Dispatch Center and asked if an electrical contact accident had been reported. Dispatch confirmed this and gave Larry the address of 1940 Spencer Hamilton Road. After which Larry notified Kenny of the address and that there had been an electrical contact.
- Larry arrived on the scene of the accident at approximately 5:00pm and made sure the area was safe and free of any hazards.
- Kenny arrived on scene at 5:19pm and started the accident investigation.
- David Turner, Maintenance Superintendent, arrived on scene at 5:50pm and Bo McGuffey, Safety Coordinator, arrived at 6:20pm to help assist with the accident investigation.

*This institution is an equal opportunity provider and employer.*

### Summary of Accident

At approximately 4:20pm on March 8, 2018 Joey Cissell came into contact with a primary line while mixing feed. As Mr. Cissell was mixing feed, it became clogged in the grain bin. In order to free the clog Mr. Cissell climbed onto the grain bin and used a 16'2" homemade metal pole to try and free the clog. While doing this Mr. Cissell came in contact with a primary line energized at 14,400 volts. Mr. Cissell was alone when the accident occurred therefore no witness account is available.

Mr. Cissell was treated at the scene of the accident by Marion County EMS. Following initial care by EMS, Mr. Cissell was transported by helicopter to the University Of Louisville Burn Center.

At the request of Steve Kingsolver on March 9, 2018 during his investigation of the accident, the following information is included in this summary report packet as attachments or inserts which address the request for information as provided by Mr. Kingsolver during his investigation:

1. One USB memory stick containing photographs of the accident site. The photographs are stored in folders corresponding the person taking the photos.
2. A copy from the excel spreadsheet used to track each serviceman's system inspection process. From this copy it can be seen that the facilities at this location was last inspected on December 13, 2017 at 5:00pm by Larry Wheatley.
3. Facility maps of the area involved titled "Facility Map 1" which depicts the location of the substation, recloser, and location of Mr. Cissell's property. Also included is "Facility Map 2" depicting the single phase primary electrical distribution facilities through Mr. Cissell's property.
4. A printout of the substation breaker operations and set points in the East Kentucky Power substation breaker protecting the distribution circuit supplying Mr. Cissell's property.
5. A diagram "Joey Cissell measurements taken" depicting a top view and west facing view of the grain bins with the measurements taken.

In addition to the attachments the following information was requested:

(Q) "Any recent work performed on facilities involved"?

(A) The 2014-2017 Work Plan did not call for any system improvements on the facilities involved and there is no evidence of any recent work there.

(Q) "Any recent customer contact at location before accident"?

(A) No.

(Q) "System protective devices, rating and if operated"?

(A) The electrical facilities at this location were coordinated with a 50E oil recloser that was examined the evening of the accident. The counter was at zero and we do not know if it operated, but suspect that it did. Up line from the 50E oil recloser is the substation breaker which is set at 400 Amp phase trip and 200 Amp ground trip. The breaker did recognize the fault as a sequence coordination but did not operate.



(Q) "Coordinates/GPS of location"?

(A) The latitude/longitudes are: 37.608405 -85.402682.

Respectfully yours,

A handwritten signature in black ink that reads "David L Phelps". The signature is written in a cursive style with a large initial "D" and a long, sweeping underline.

David L Phelps, PE  
VP of Engineering and Operations  
Inter County Energy Cooperative  
859-936-7814

12166	LW	10/29/2015	10/23/2017	5:00 PM LW
12167	LW	10/29/2015	10/23/2017	5:00 PM LW
12168	LW	10/29/2015	10/23/2017	5:00 PM LW
12176	LW	10/20/2015	10/19/2017	5:00 PM LW
12177	LW	10/21/2015	10/19/2017	5:00 PM LW
12178	LW	10/20/2015	10/19/2017	5:00 PM LW
12179	LW	10/20/2015	10/19/2017	5:00 PM LW
12180	LW	2/6/2015	2/3/2017	5:00 PM LW
12187	LW	2/6/2015	2/3/2017	5:00 PM LW
12189	NO LINE			
12196	LW	10/22/2015	10/18/2017	5:00 PM LW
12197	LW	7/17/2015	7/13/2017	5:00 PM LW
12198	LW	10/22/2015	10/18/2017	5:00 PM LW
12199	LW	10/22/2015	10/18/2017	5:00 PM LW
12202	LW	12/4/2015	12/1/2017	5:00 PM LW
12203	LW	12/7/2015	12/1/2017	5:00 PM LW
12204	LW	2/6/2015	2/2/2017	5:00 PM LW
12205	LW	12/7/2015	12/6/2017	5:00 PM LW
12206	LW	12/7/2015	12/6/2017	5:00 PM LW
12207	LW	2/24/2015	2/22/2017	5:00 PM LW
12208	LW	2/24/2015	2/22/2017	5:00 PM LW
12209	LW	2/24/2015	2/22/2017	5:00 PM LW
12212	LW	12/14/2015	12/12/2017	5:00 PM LW
12213	LW	12/23/2015	12/12/2017	5:00 PM LW
12214	LW	12/23/2015	12/12/2017	5:00 PM LW
12218	LW	12/23/2015	12/13/2017	5:00 PM LW
12218	LW	3/24/2015	3/21/2017	5:00 PM LW
12219	LW	1/29/2015	1/20/2017	5:00 PM LW
12222	LW	11/2/2015	10/30/2017	5:00 PM LW
12223	LW	11/2/2015	10/30/2017	5:00 PM LW
12224	LW	11/2/2015	10/30/2017	5:00 PM LW
12225	LW	11/2/2015	10/30/2017	5:00 PM LW

Facilities Map 1



Partner Software, Inc. <http://www.partnersoft.com> 2018/03/14 11:37:34 dawldp

Cissell Property

Substati

# Facilities Map 2



Partner Software, Inc. <http://www.partnersoft.com> 2018/03/14 11:37:13 dntldp

## Consumer

Name	CISSELL MARGARET
Consumer Number	12216050
Service Address	SPENCER HAMILTON RD 1915
Zip	400377062
Telephone	2709862096
Meter	105033
Meter type	1
Phase	C
Feeder	08-03
Kwh	0
Accstatus	A
Mbrno	50415
Transformer Number	122110001
Transtype	25
Mbrasp	50418902
Service type	0
Constructionunit	
StakingUnits	
Long_dec	-85.4026318
Lat_dec	37.60931485
Comments	
Data type	Consumer
Connectivity	
2020L service (Phase: C normal; C now: C)	
system	
© 2018 L. Associates Inc. (Phase: C normal; C now: C)	
download	

# East Kentucky Power's Substation operations and set points.

Substation Breaker OCR 214 – Spencer Hamilton Road

=>HIS

LORETTO 114 #376                      Date: 03/09/18    Time: 07:26:45.758

LORETTO 114 #376

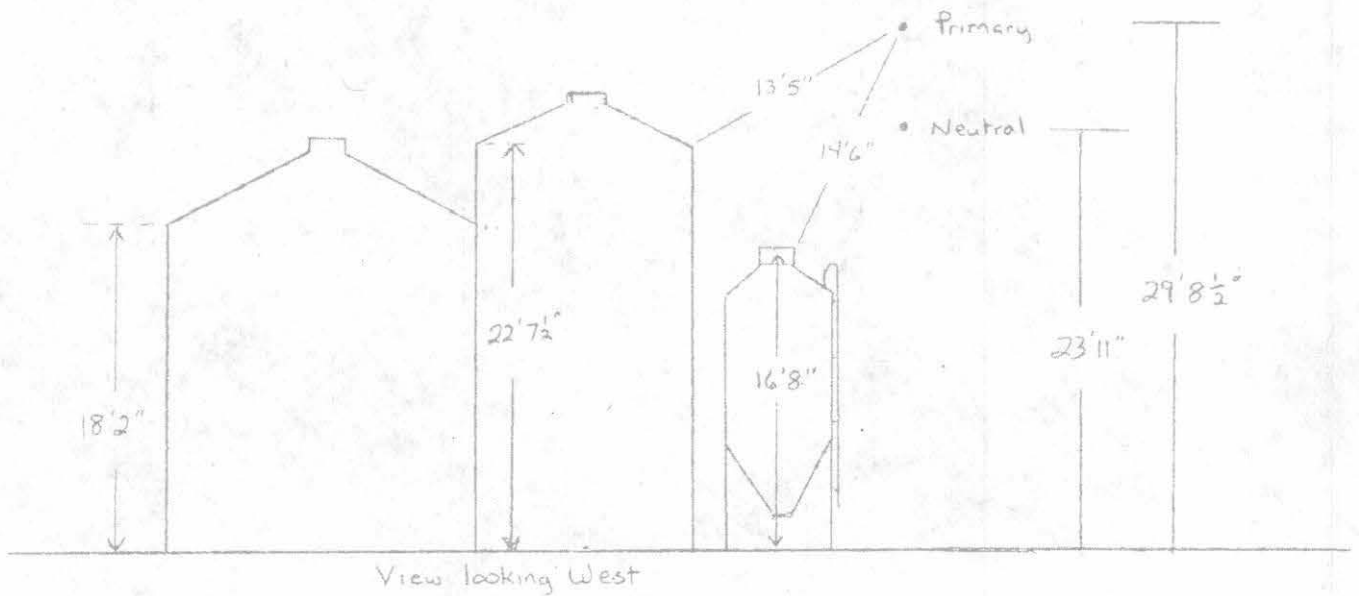
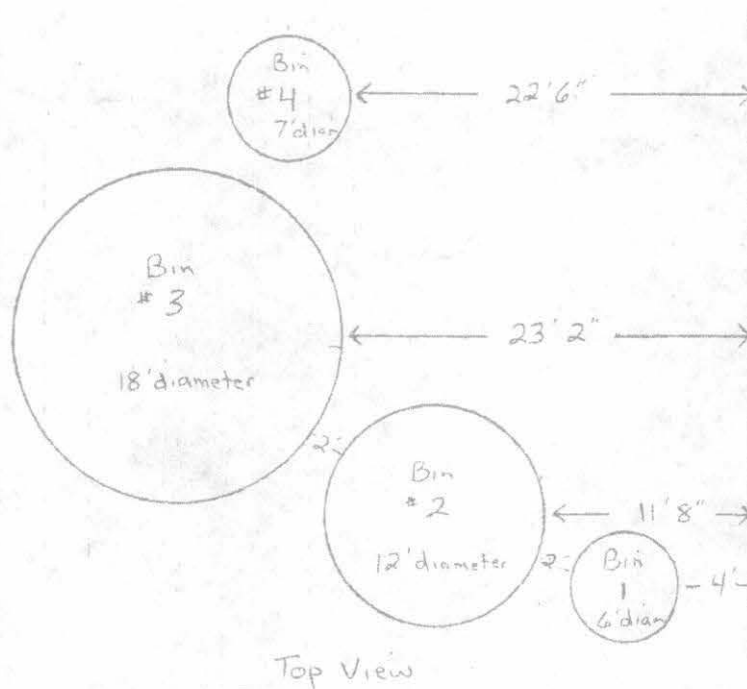
#	DATE	TIME	EVENT	LOCAT	CURR	FREQ	GRP	SHOT	TARGETS
1	03/08/18	17:24:32.539	CG	\$\$\$\$\$\$	1180	59.98	1	0	11000000 10000000
2	03/01/18	14:47:54.170	CG	\$\$\$\$\$\$	958	59.98	1	0	11000000 10000000

EZ Group 1

Control Identifier (30 chars)	=LORETTO 114 #376
Circuit Identifier (30 chars)	=LORETTO 114 #376
CT Ratio (1.0-6000)	= 1000.0
PT Ratio (1.0-10000)	= 120.0
Min. trip - phase (OFF,100.00-3199.99 A pri.)	= 400.00
Min. trip - ground (OFF,5.00-3199.99 A pri.)	= 200.00
Min. trip - SEF (OFF,5.00-1499.99 A pri.)	= OFF
Fast curve - phase (OFF,U1-U5,C1-C5,recloser or user curve)	= 105
Fast curve - ground (OFF,U1-U5,C1-C5,recloser or user curve)	= 111
Delay curve - phase (OFF,U1-U5,C1-C5,recloser or user curve)	= 133
Delay curve - ground (OFF,U1-U5,C1-C5,recloser or user curve)	= 135
Operations - phase fast curve (OFF,1-5)	= 1
Operations - ground fast curve (OFF,1-5)	= 1
Operations to lockout - phase (1-5)	= 3
Operations to lockout - ground (1-5)	= 3
Reclose interval 1 (0.00-999999cyc)	= 120.00
Reclose interval 2 (0.00-999999cyc)	= 300.00
Reset time for auto-reclose (0.00-999999cyc)	= 600.00
Reset time from lockout (0.00-999999cyc)	= 180.00
Close power wait time (OFF,0.00-999999cyc)	= 7200.00
Complex fast curve - phase (Y/N)	= N
Complex fast curve - ground (Y/N)	= N
Complex delay curve - phase (Y/N)	= N
Complex delay curve - ground (Y/N)	= N

High current trip - phase (Y/N)	= N
High current trip - ground (Y/N)	= N
High current lockout - phase (Y/N)	= N
High current lockout - ground (Y/N)	= N
Cold load pickup scheme (Y/N)	= Y
Cold load pickup - phase (OFF,1.00-49.99 multiples of Min. trip - phase)	= 1.50
Cold load pickup - ground (OFF,1.00-99.99 multiples of Min. trip - ground)	= 1.50
Loss of load diversity time (0.00-999999cyc)	= 108000.00
Restore min. trips - time limit (OFF,0.00-999999cyc)	= 3600.00
Restore min. trip - phase (Y/N)	= Y
Restore min. trip - ground (Y/N)	= Y
Sequence coordination (Y/N)	= Y
Underfrequency loadshedding (Y/N)	= N
Demand meter time constant	= 15

# Joey Cissell - Measurements taken



Scale: 1" = 10'

Drawn by: *DEP* using measurements from different individuals on 3-8-18 and 3-19-18.

The requested information shall be made part of the 7-day summary report as required by 80 KAR 5:006 Section 26-2. This document is a request for the information listed below.

ACCIDENT DATE: 3-8-18

ACCIDENT LOCATION: MAHON CO.

ACCIDENT VICTIM(S): CISSELL

REQUESTED INFORMATION:

- 7-DAY SUMMARY REPORT UTILTY ACCIDENT REPORT.
- UTILITY PHOTOGRAPHS OF ACCIDENT SITE.
- LAST SYSTEM INSPECTION ON FACILITIES INVOLVED.
- COPY OF POLICE REPORT (IF INVOLVED)
- FACILITY MAP OF AREA INVOLVED.
- ANY RECENT WORK PREFORMED ON FACILITIES INVOLVED.
- MAINTENANCE RECORDS ON FAILED OR EFFECTED EQUIPMENT.
- ANY RECENT CUSTOMER CONTACT AT LOCATION BEFORE ACCIDENT.
- COPY OF OUTAGE REPORTS ON FACILITIES INVOLVED.
- COPY OF JOB BREIFING BEFORE WORK BEGAN AT THE ACCIDENT.
- SYSTEM PROTECTIVE DEVICES: RATINGS AND IF OPERATED
- CONSTRUCTION DATES OF INVOLVED FACILITIES
- Diagrams of grain bins with measurements
- Coordinates /GPS of location

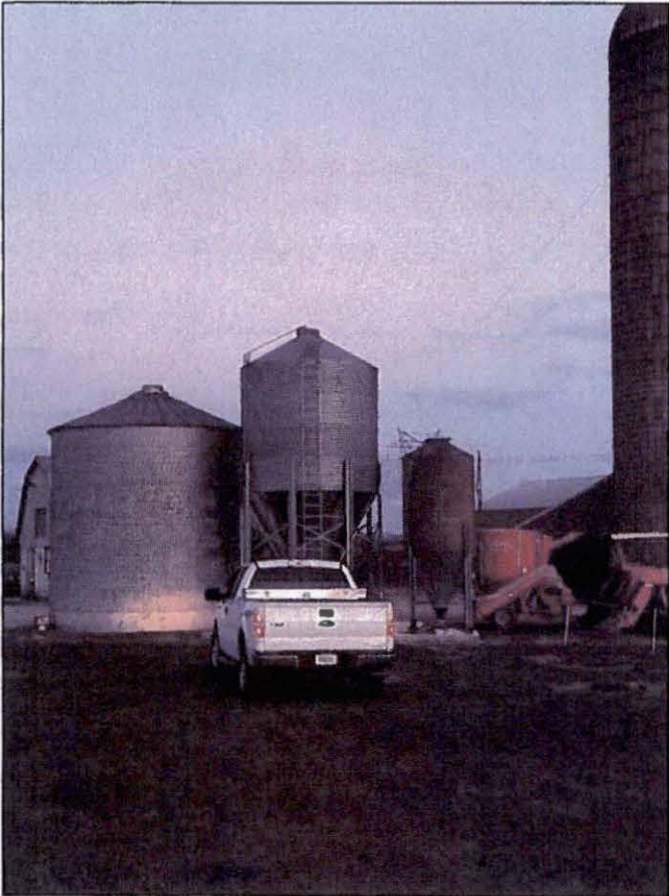
PSC ACCIDENT INVESTIGATOR: KINGOLIER

SIGNATURE: [Signature] DATE: 3-9-18

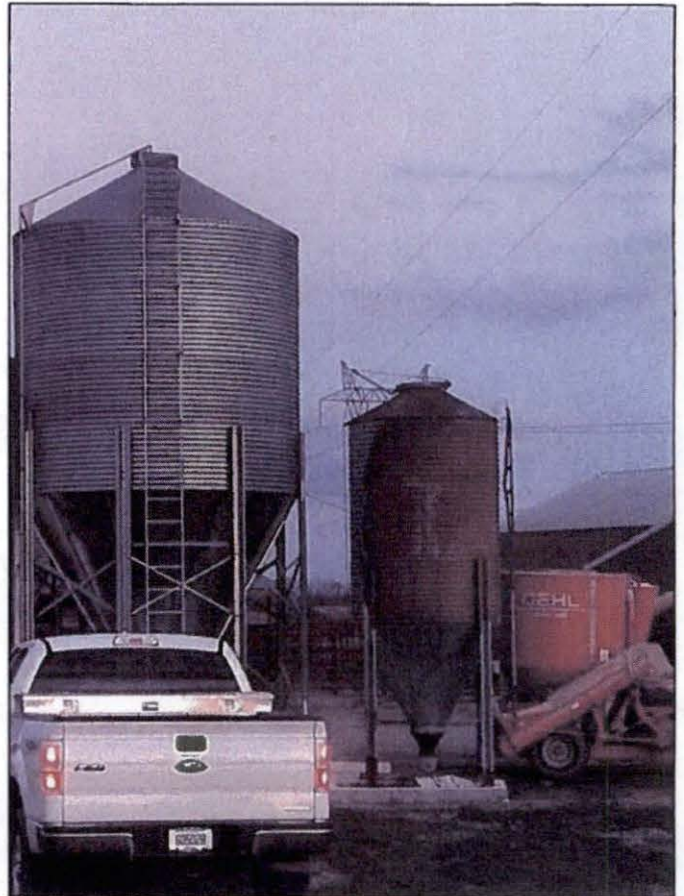
UTILITY COMPANY INVESTIGATOR: DAVID PHELPS

SIGNATURE: [Signature] DATE: 3-9-18





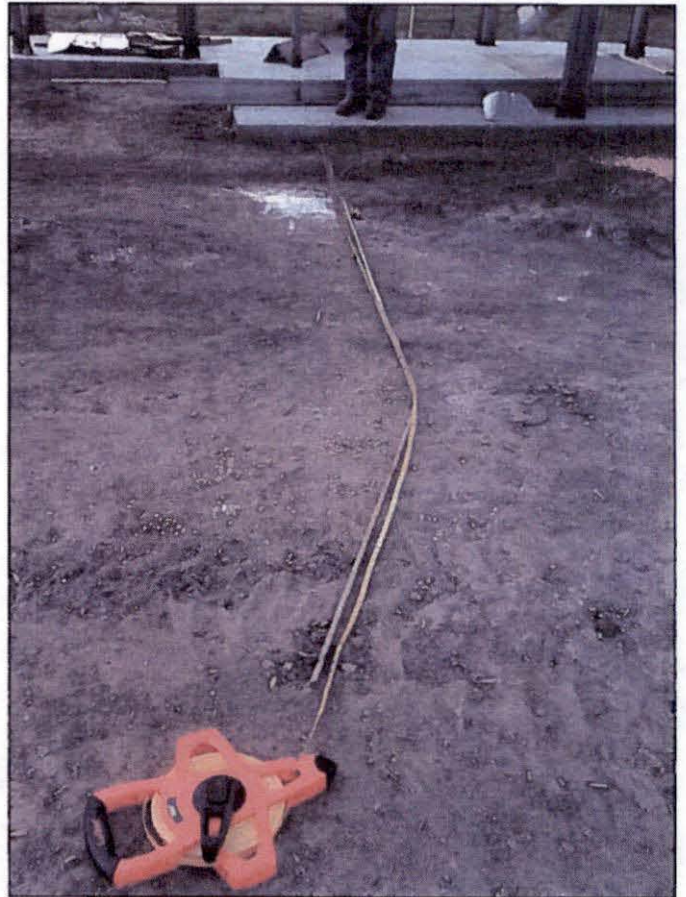
#1



#2



#3



#4



#5



#6



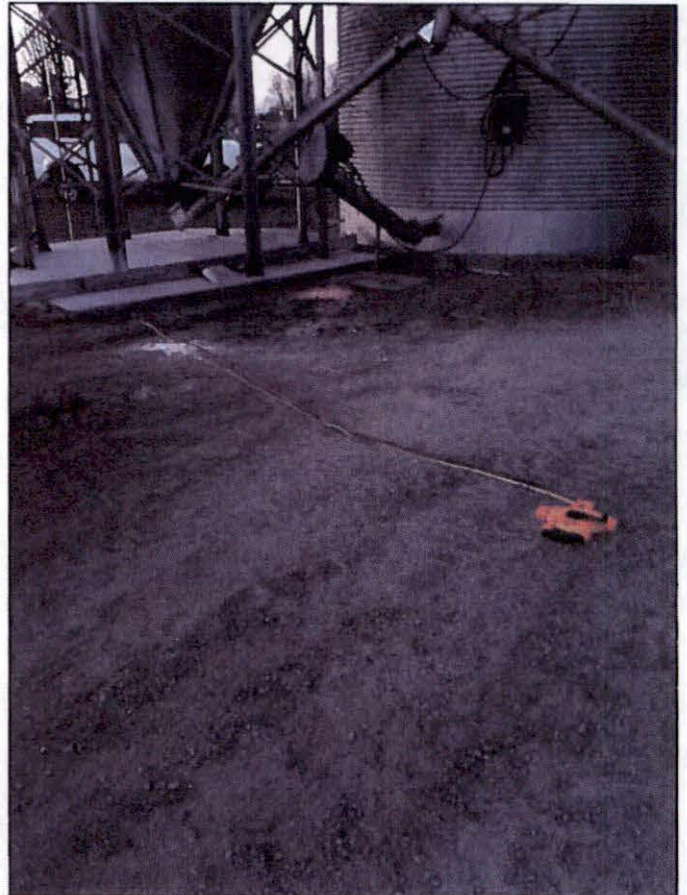
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#8



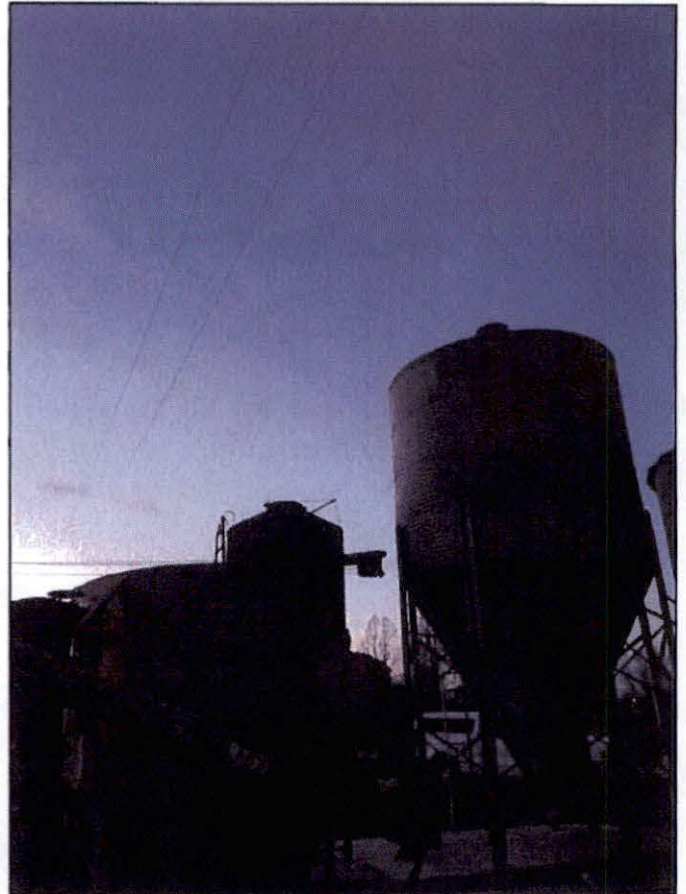
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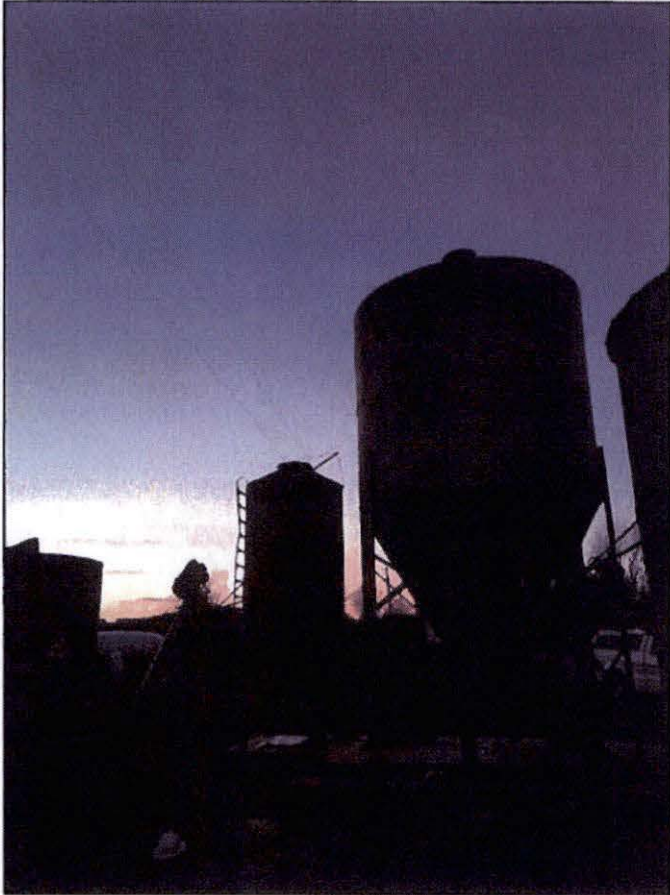
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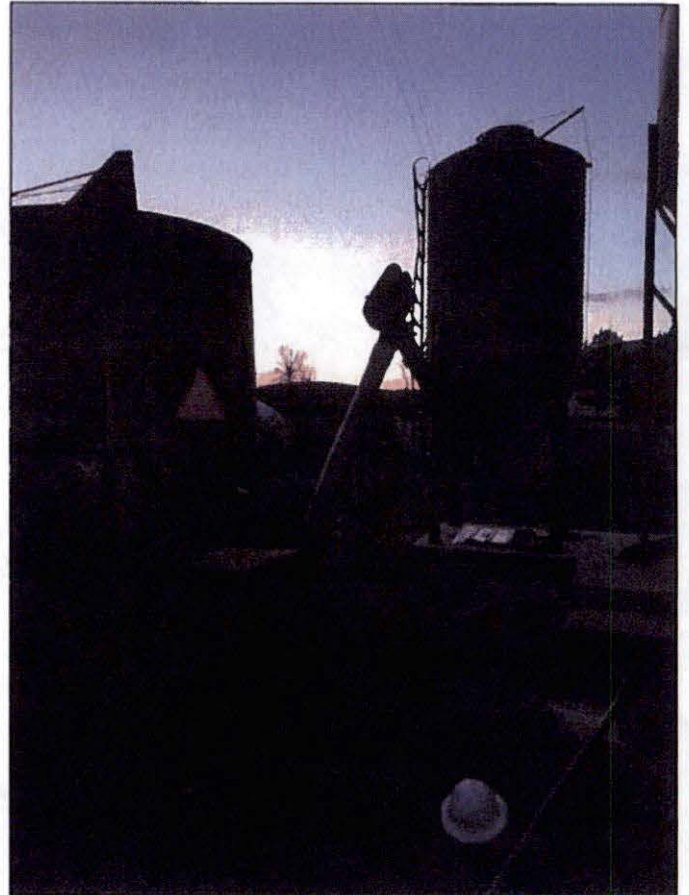
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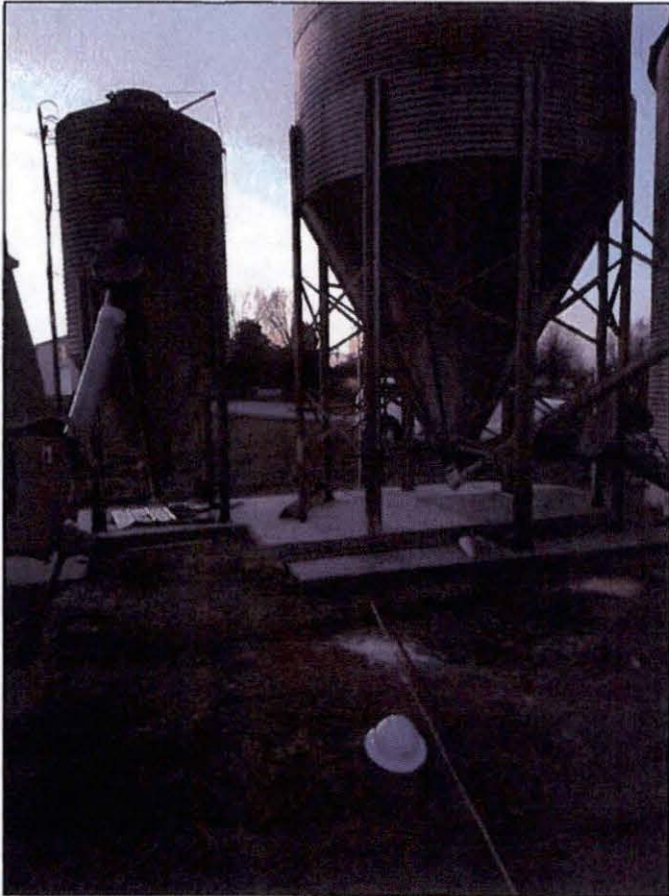
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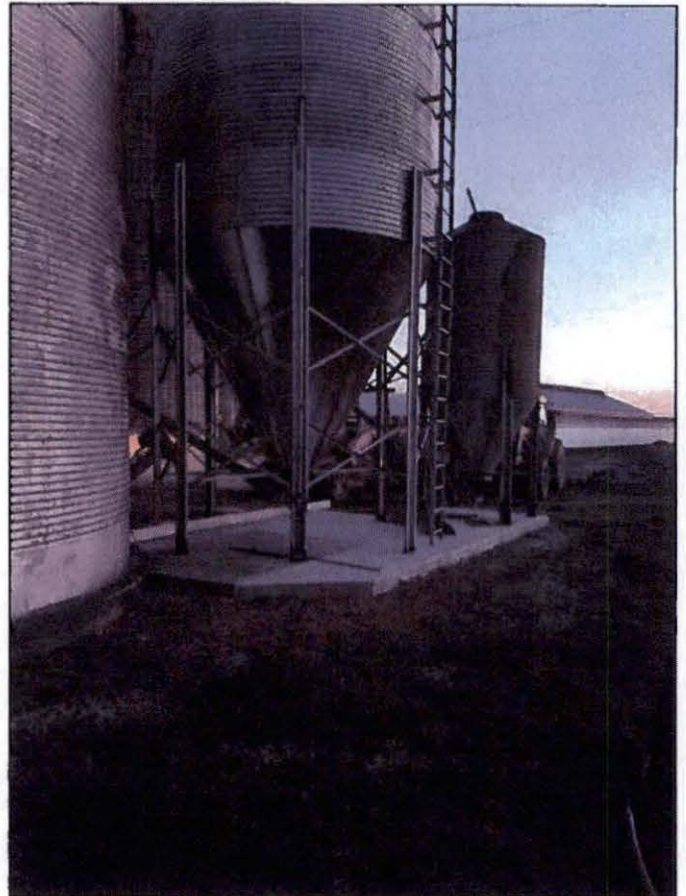
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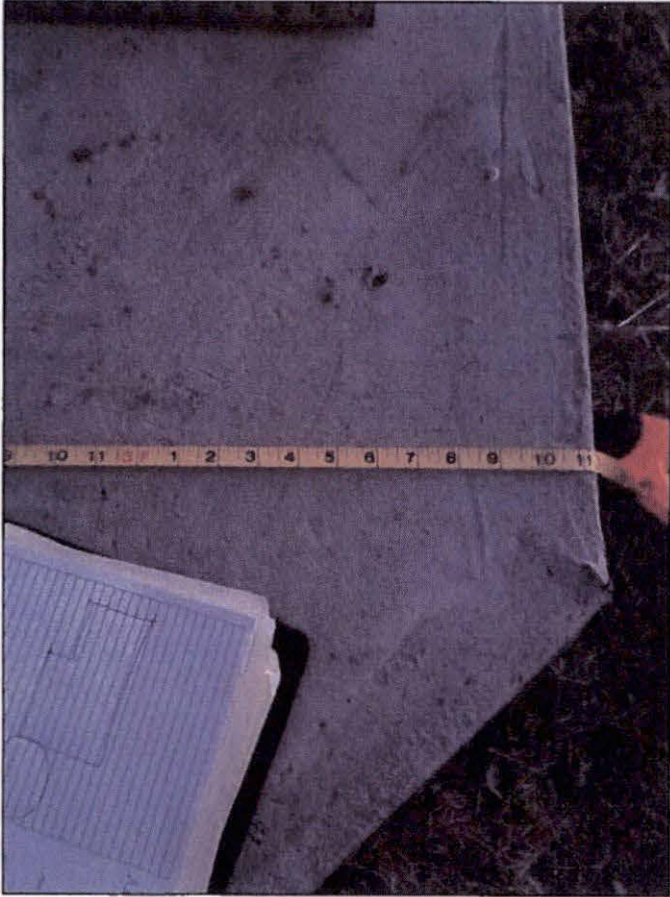


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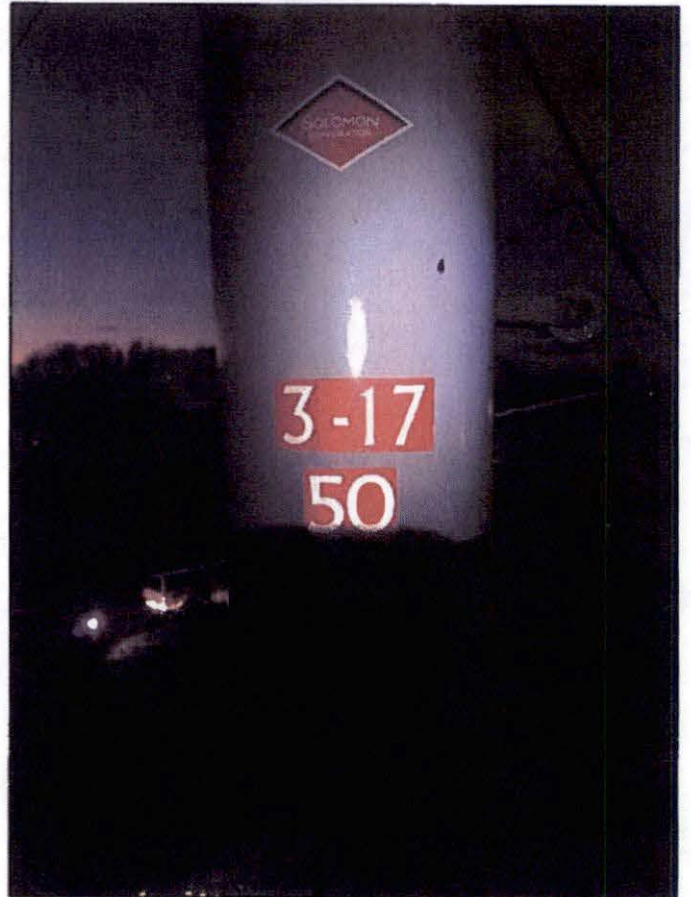


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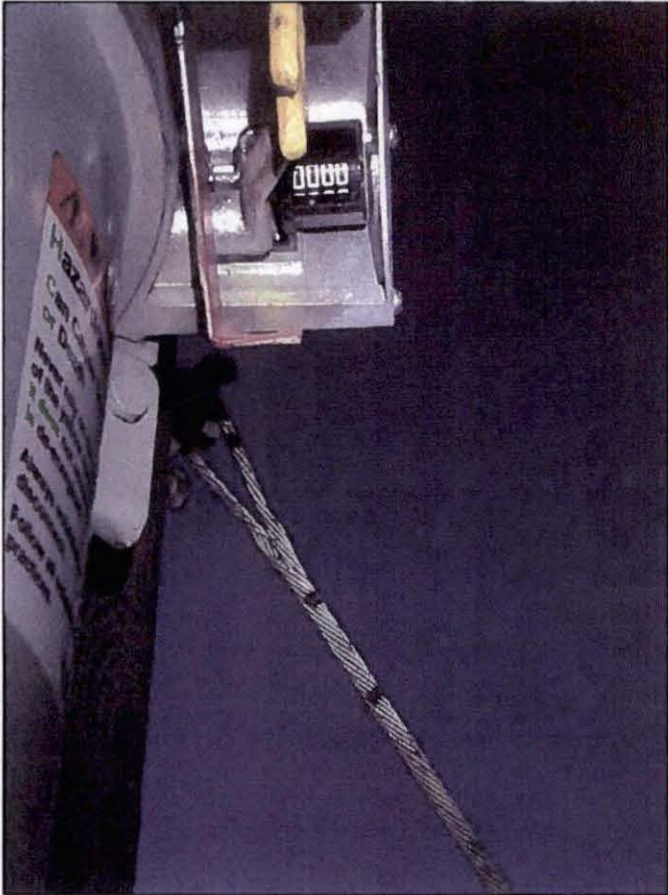




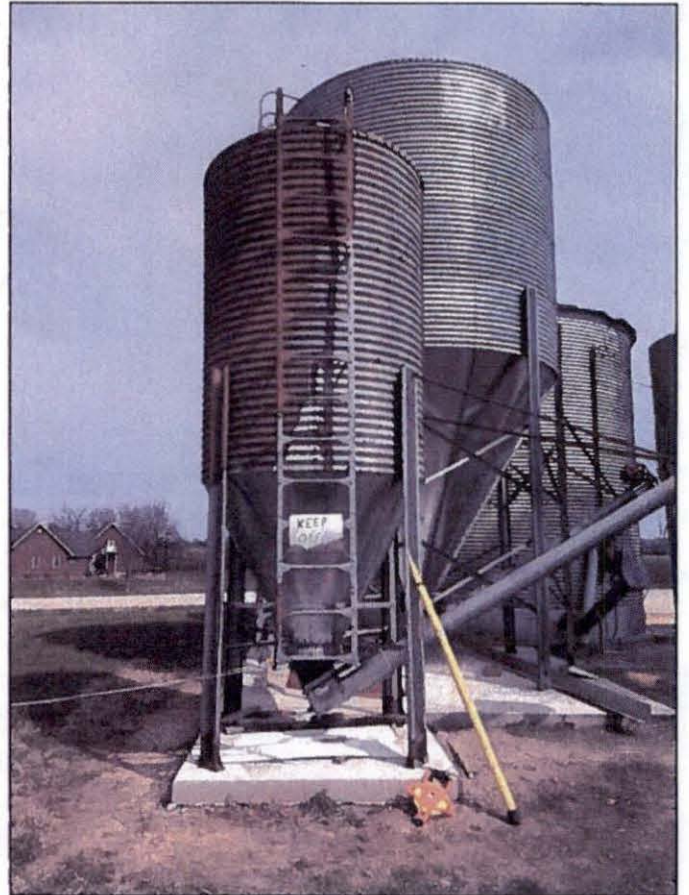
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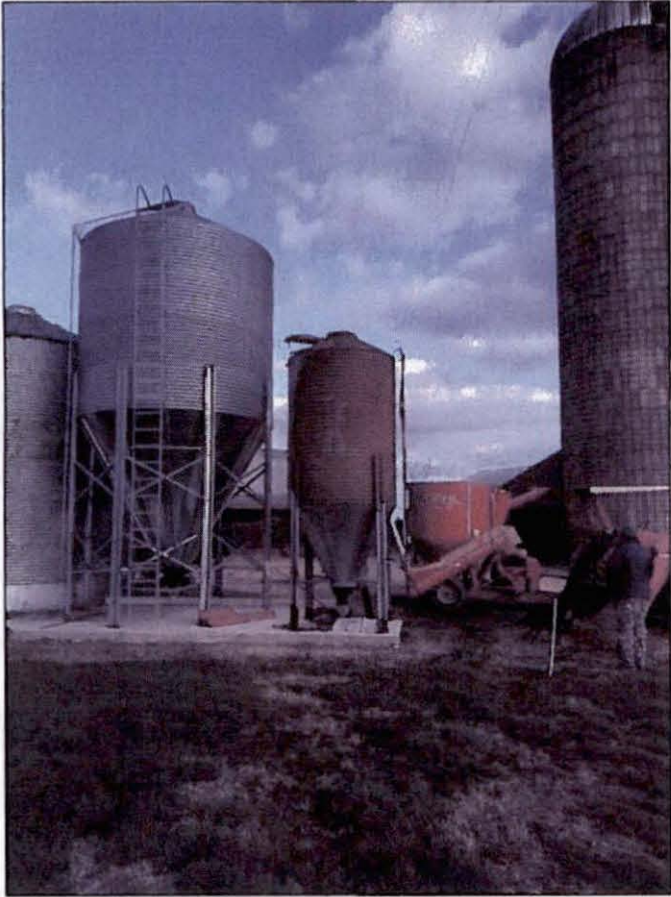
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#20



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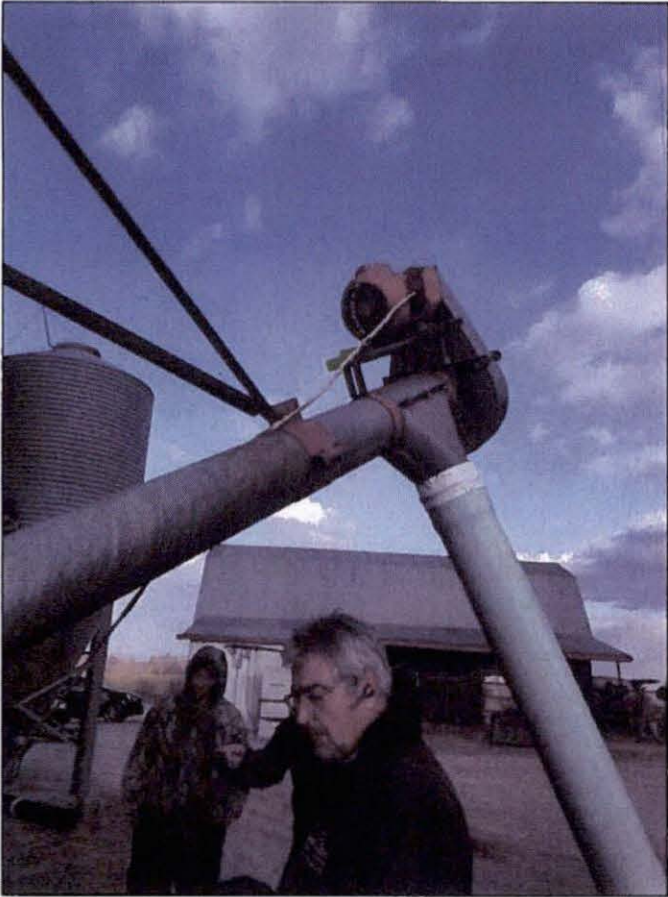
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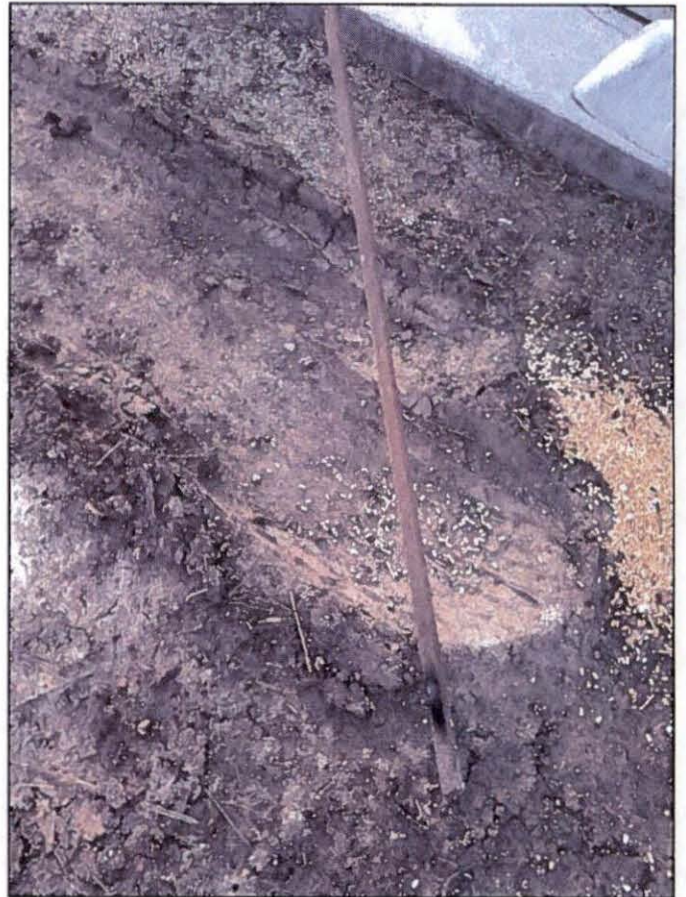
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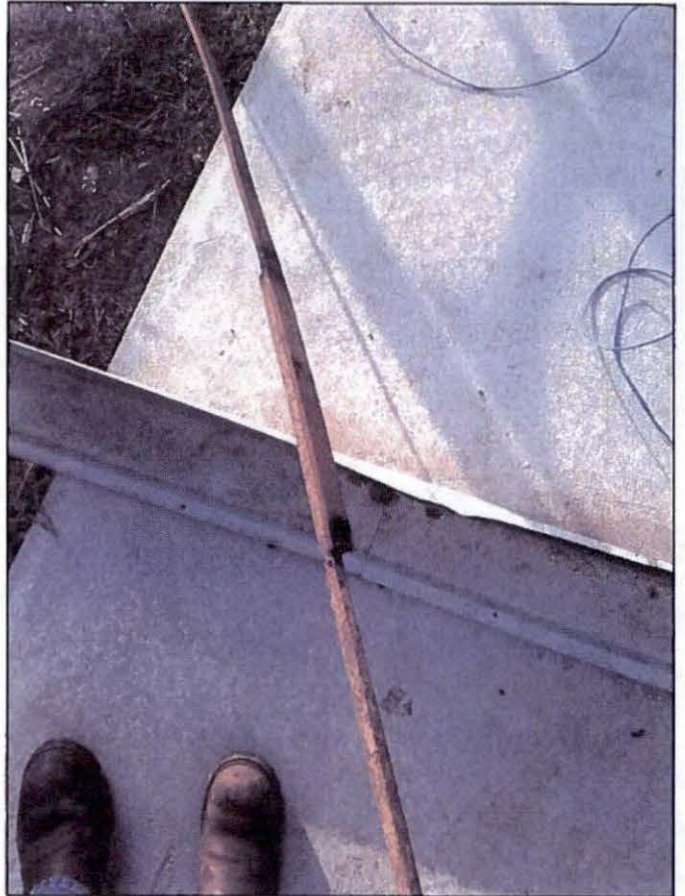
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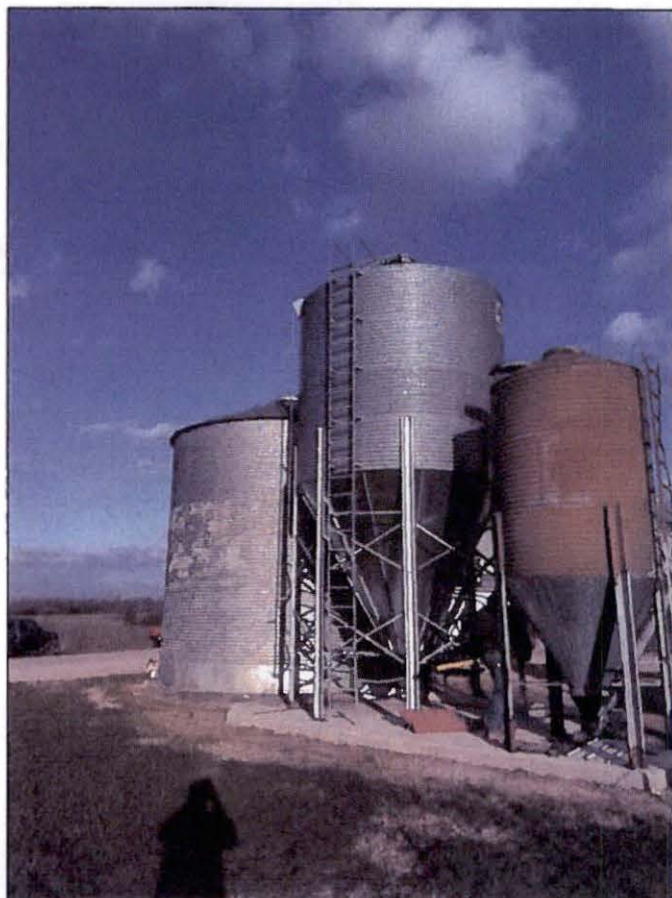
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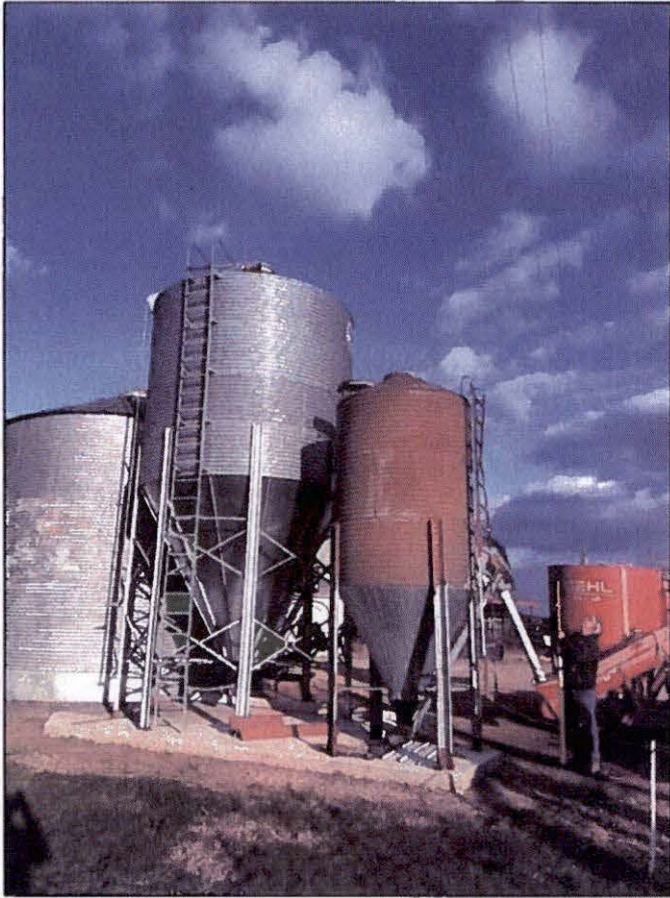
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#30



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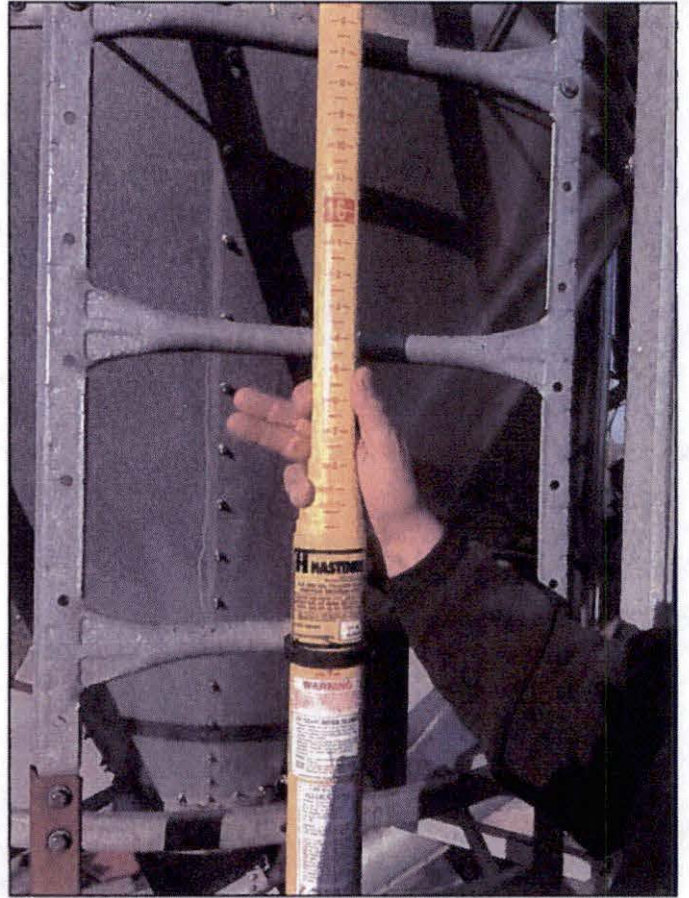


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#33



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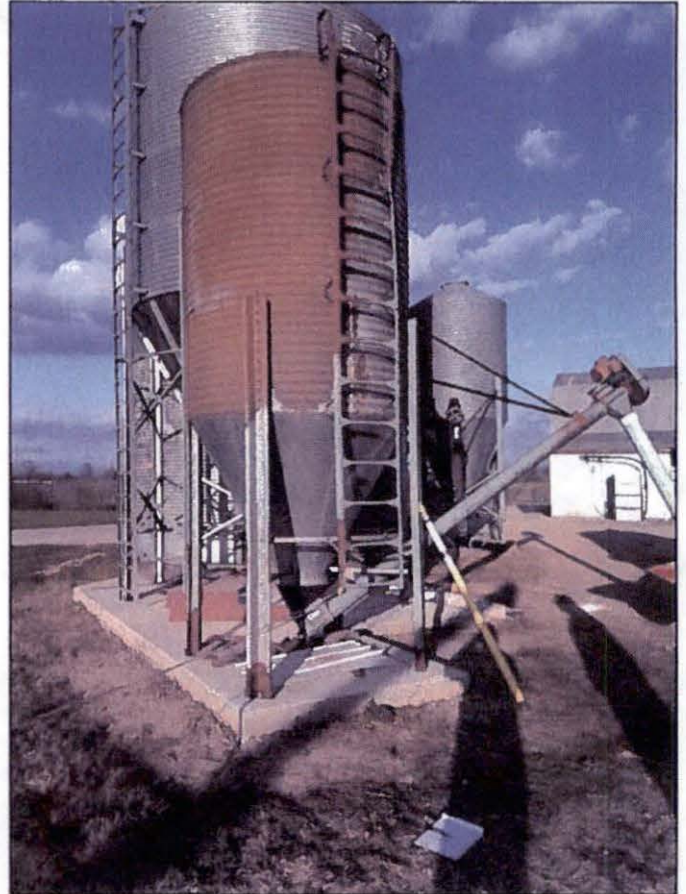
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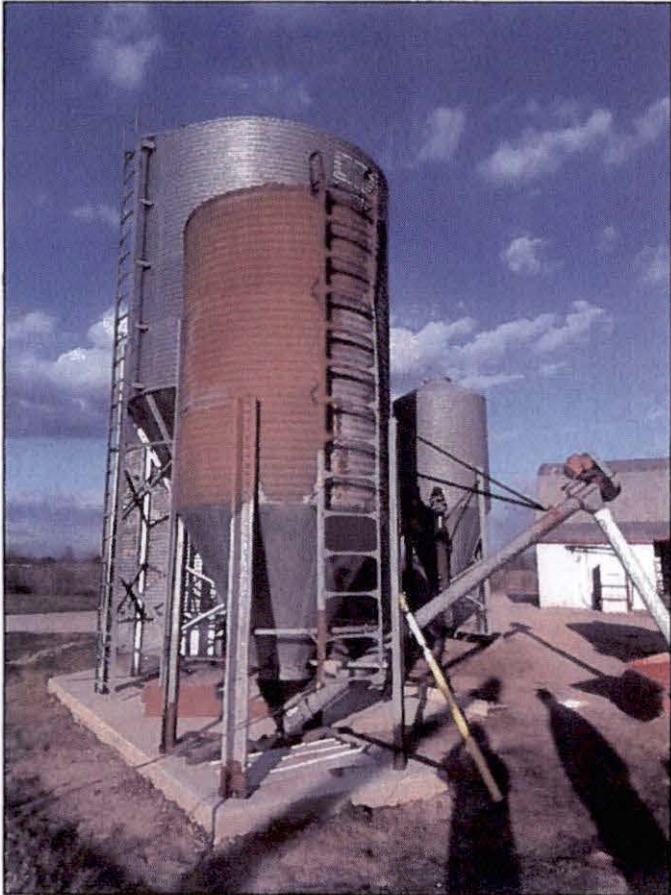
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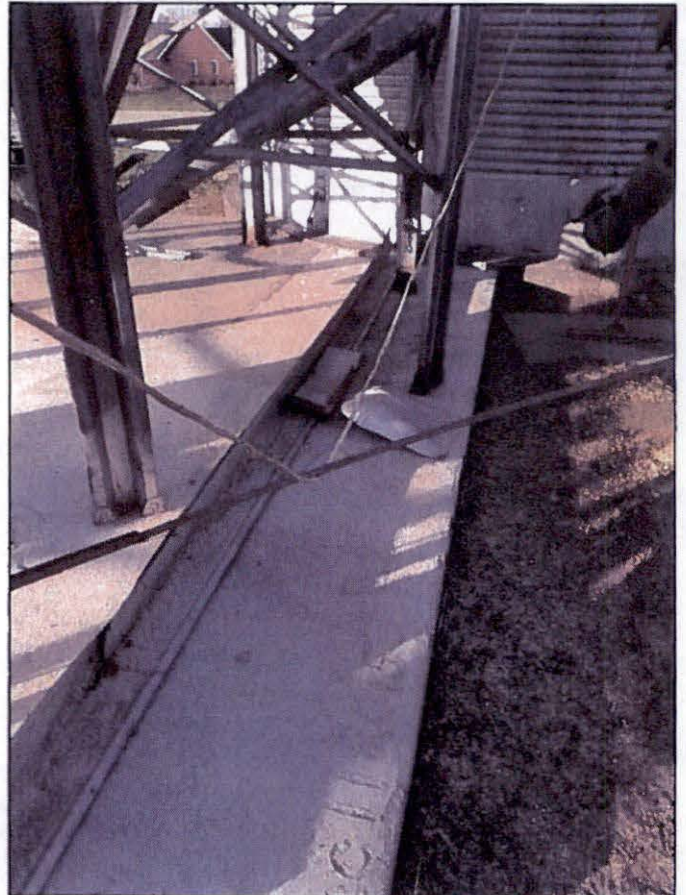
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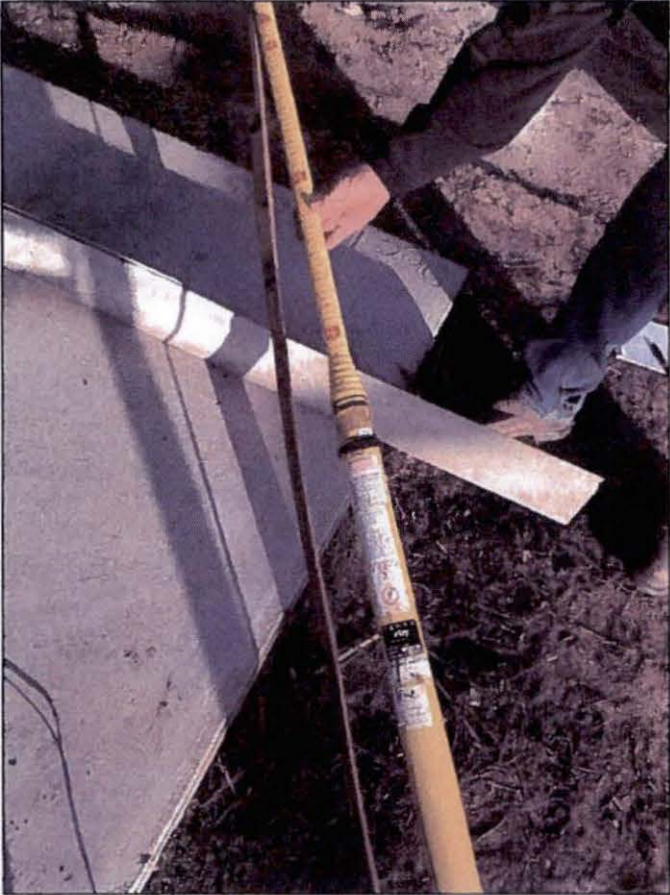
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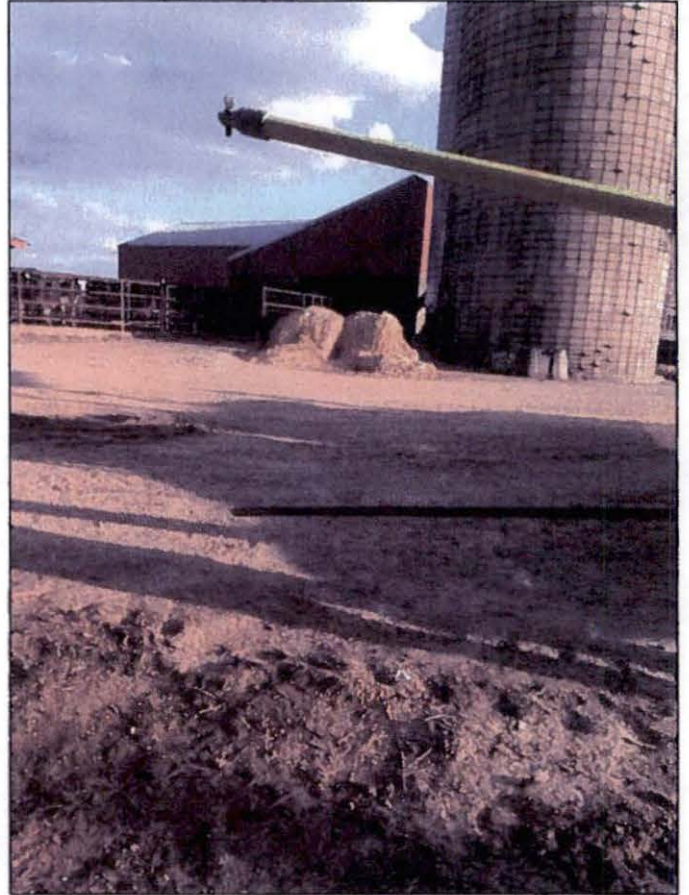
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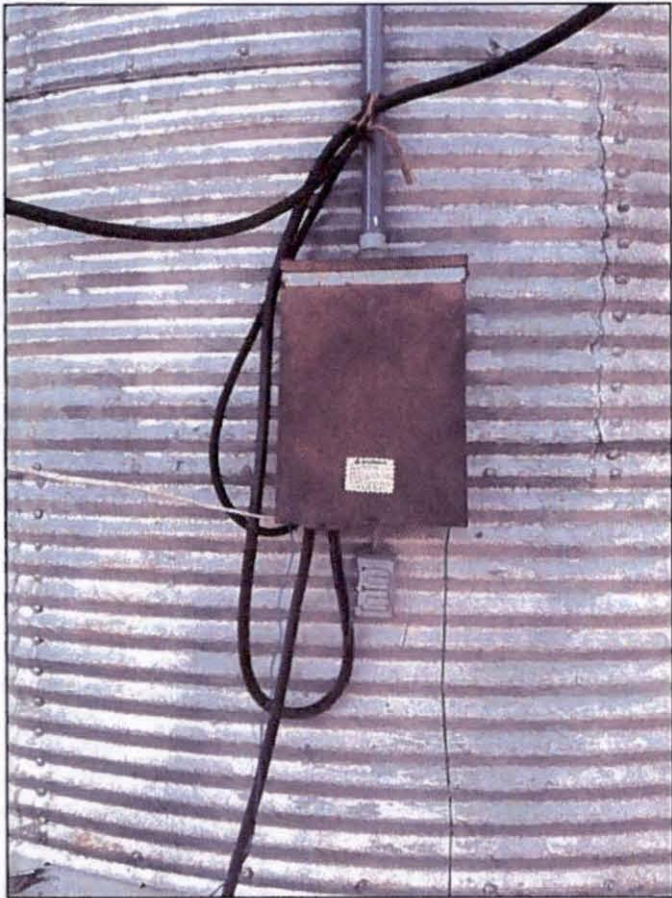
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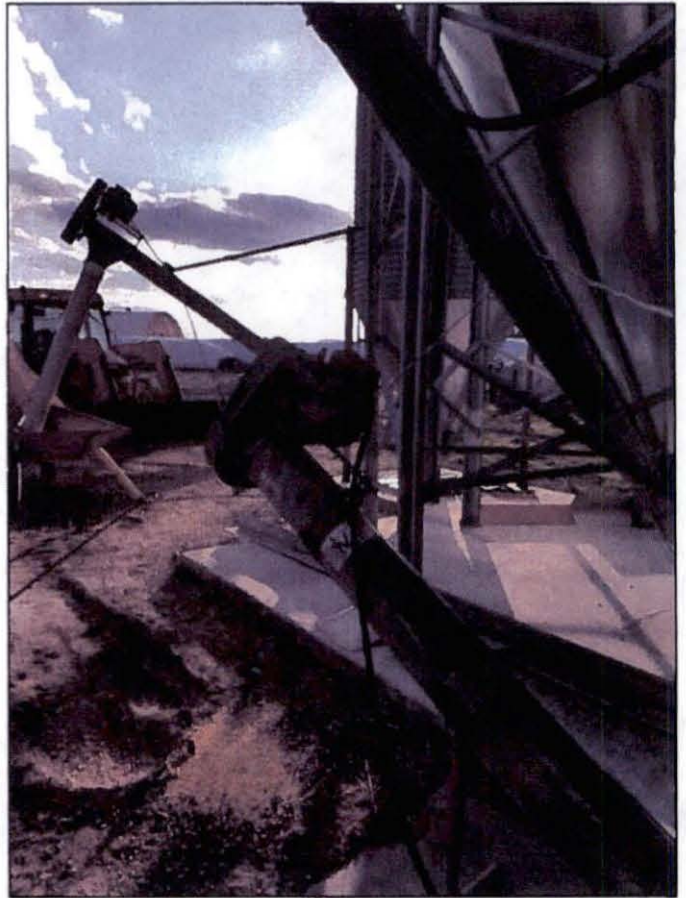
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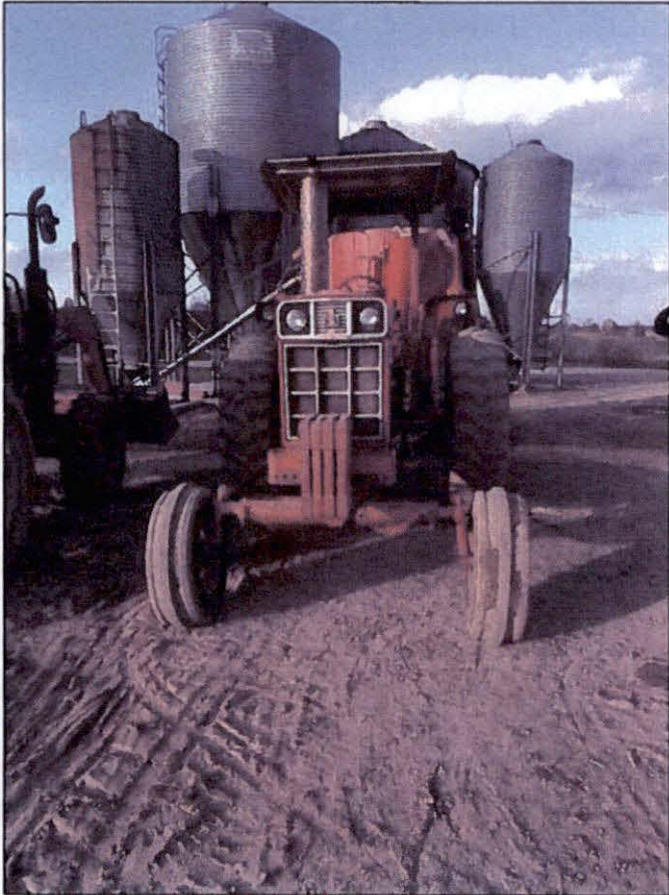
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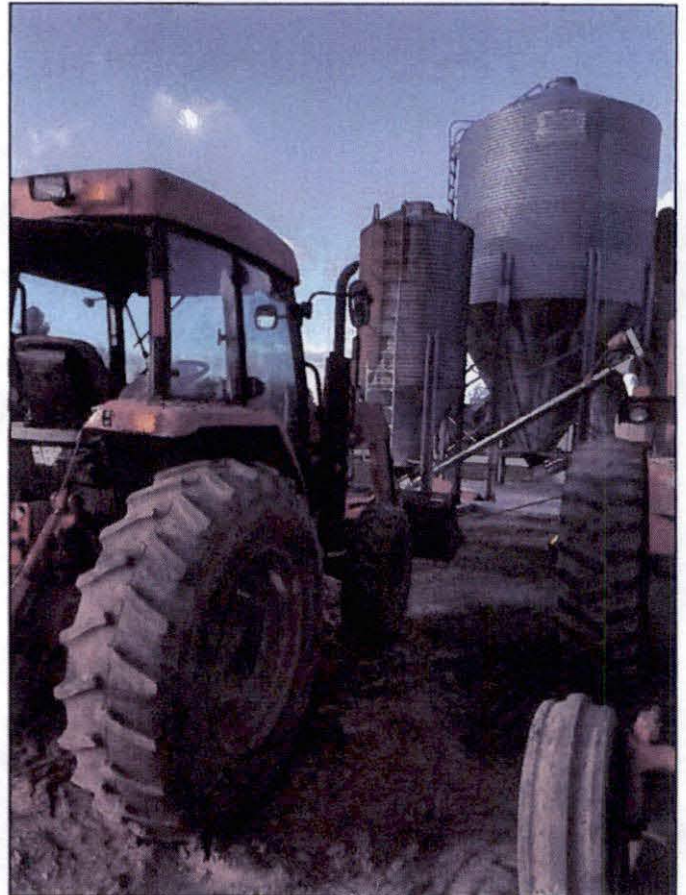
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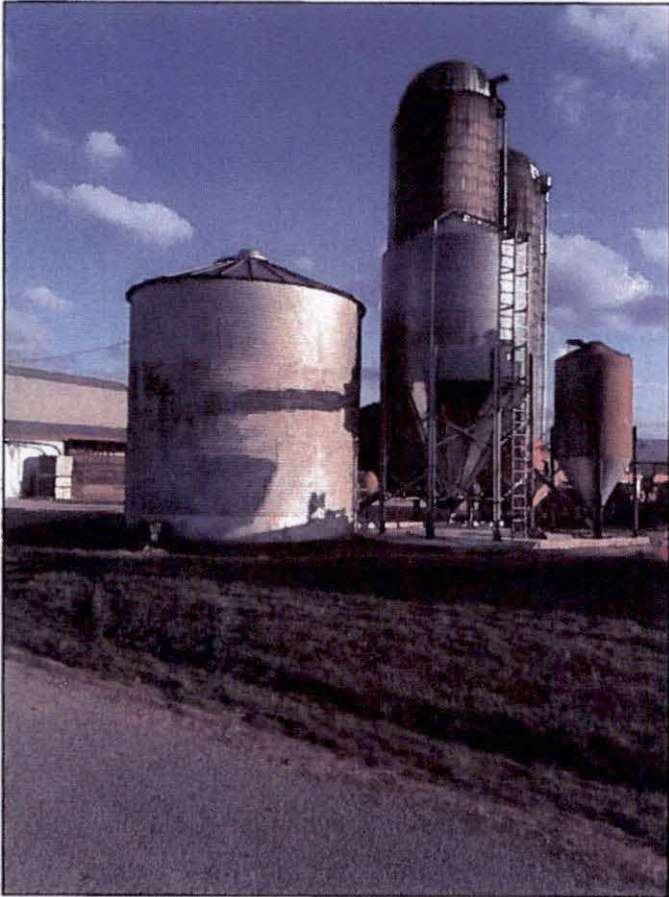
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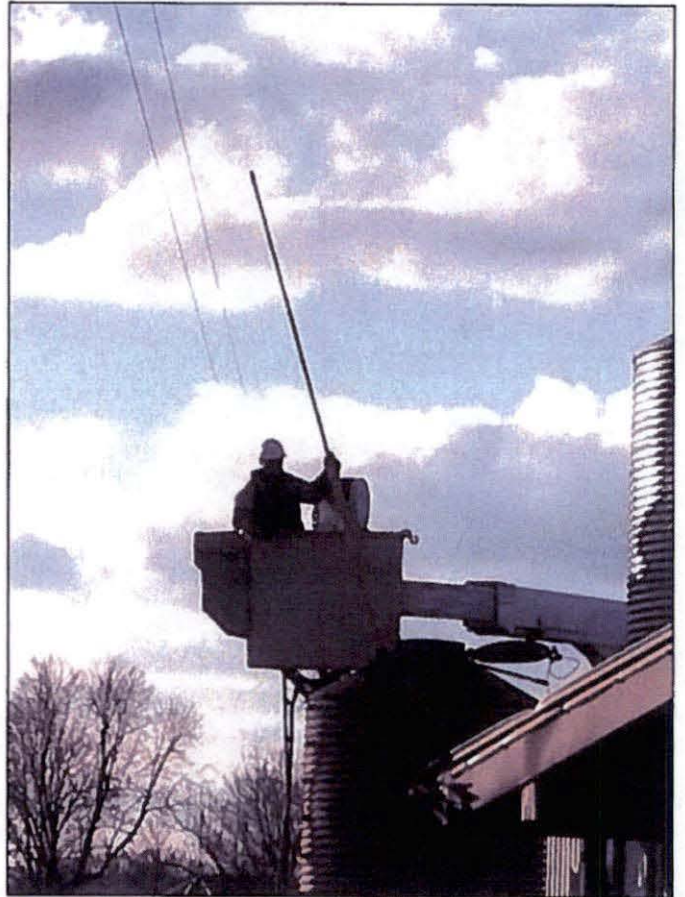
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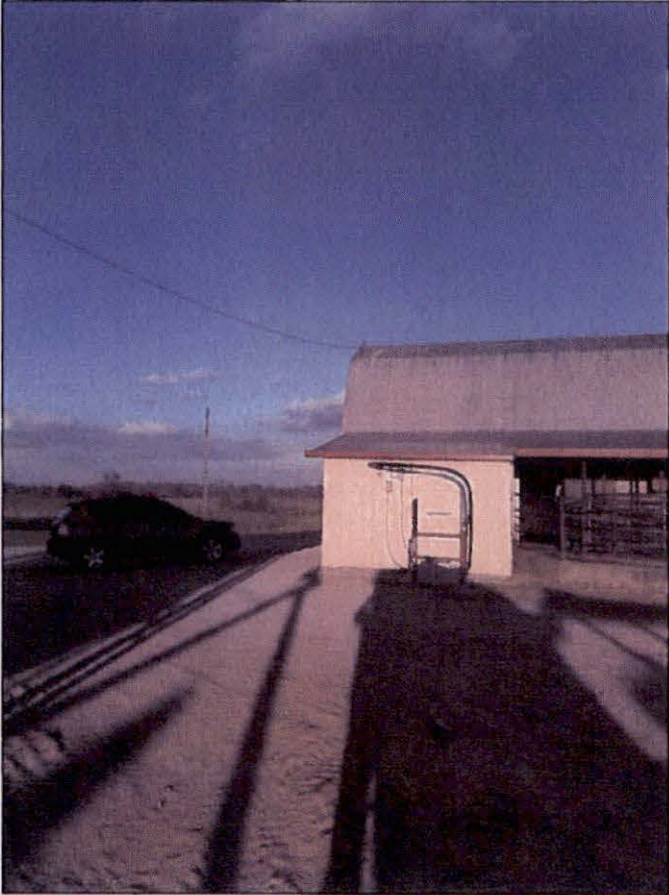


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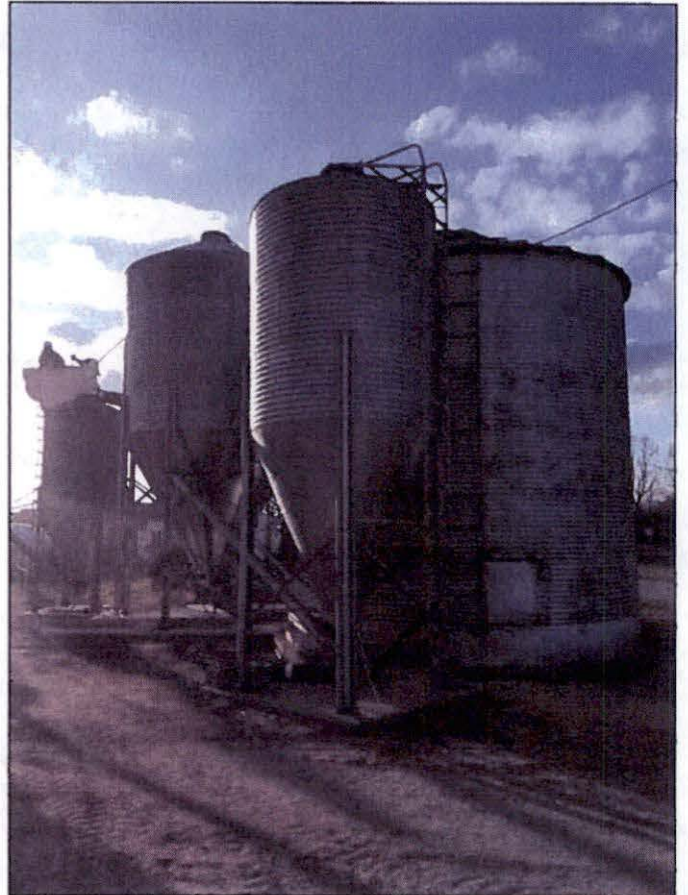


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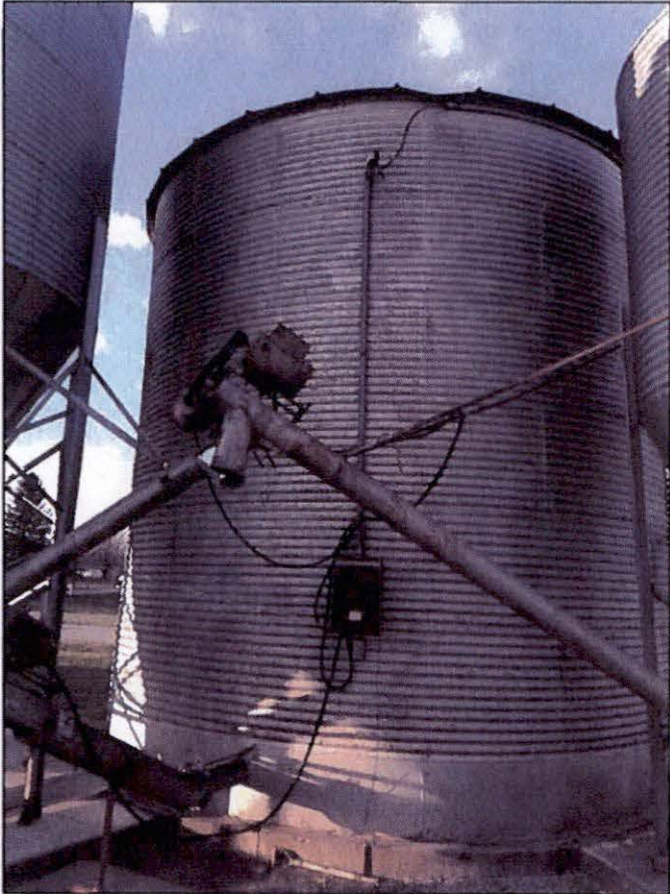




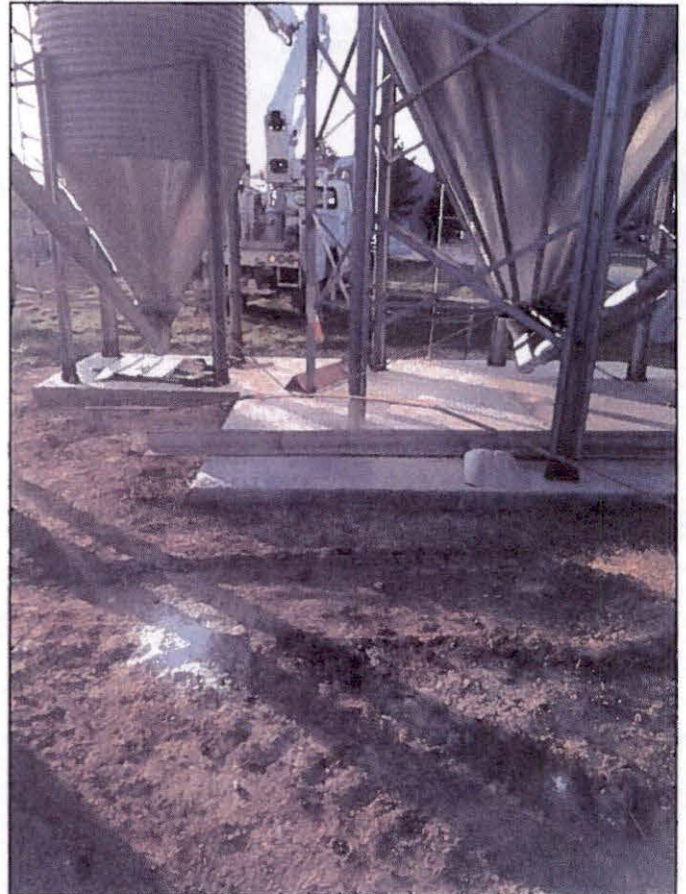
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#50



#51



#52



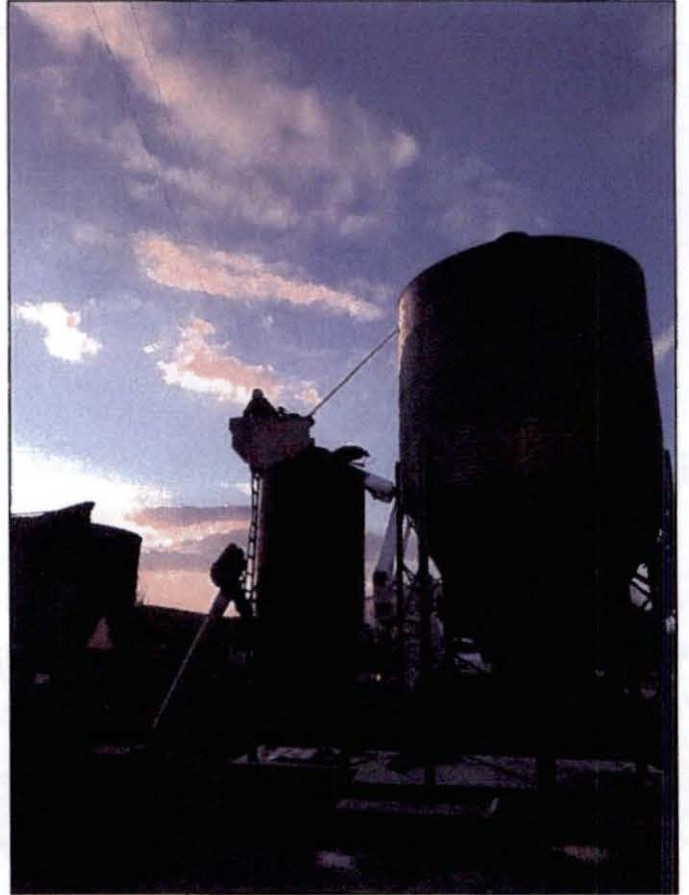
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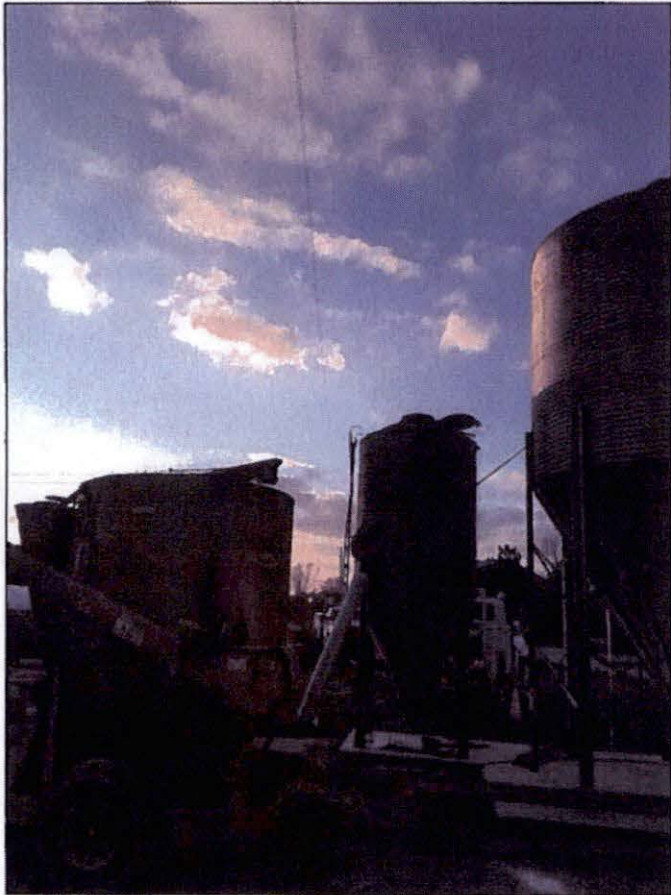
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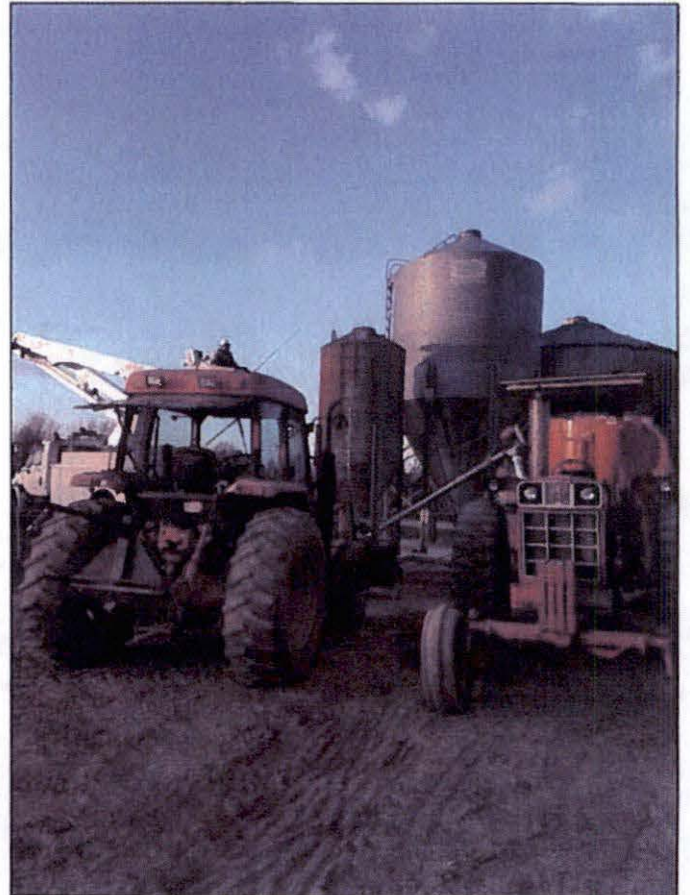
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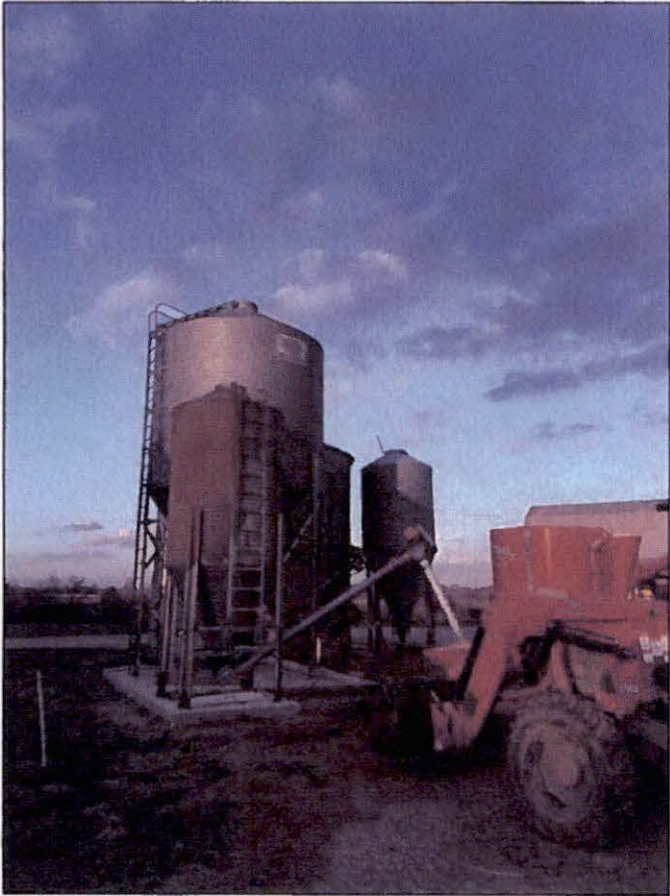
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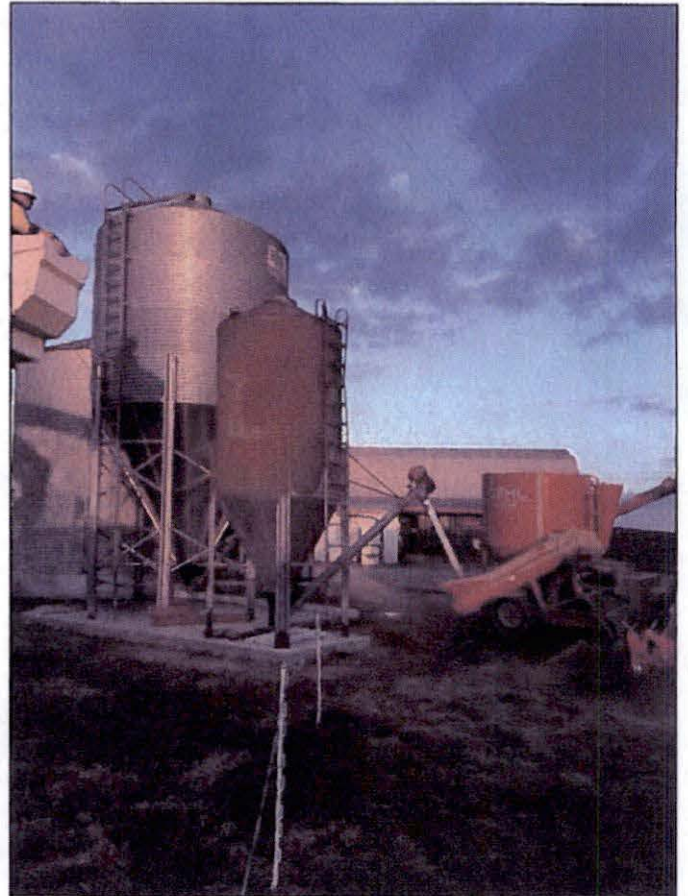
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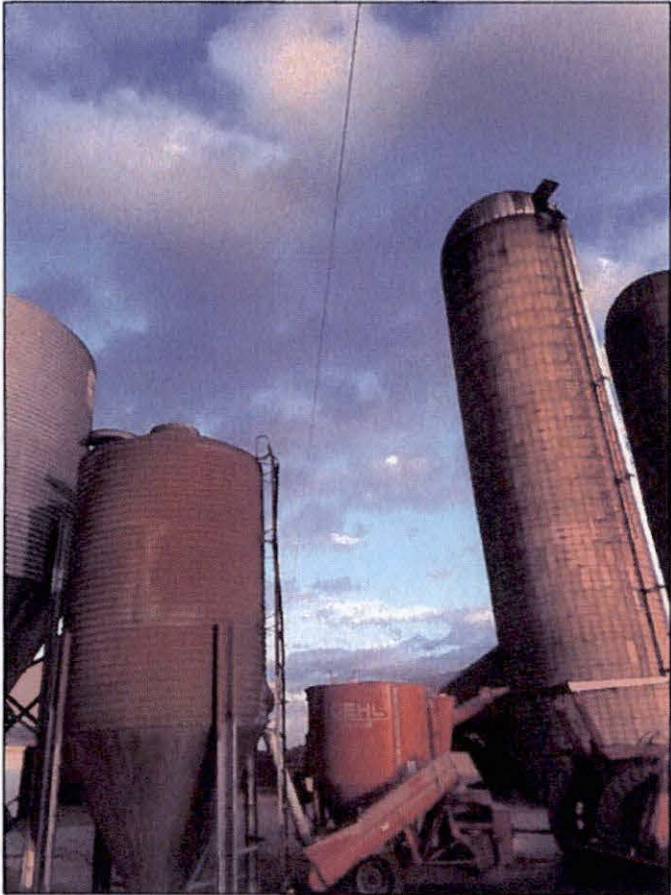
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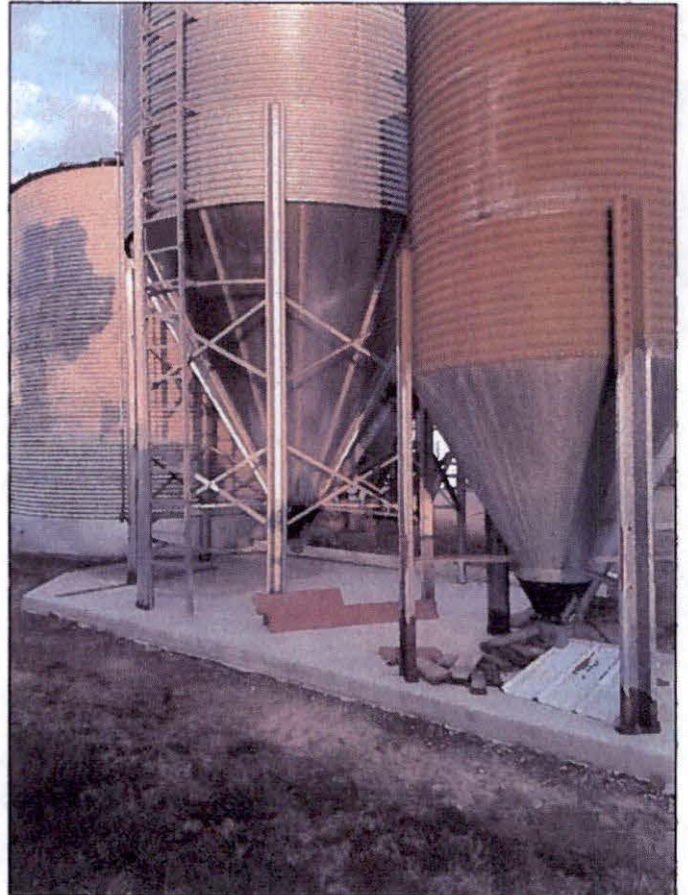
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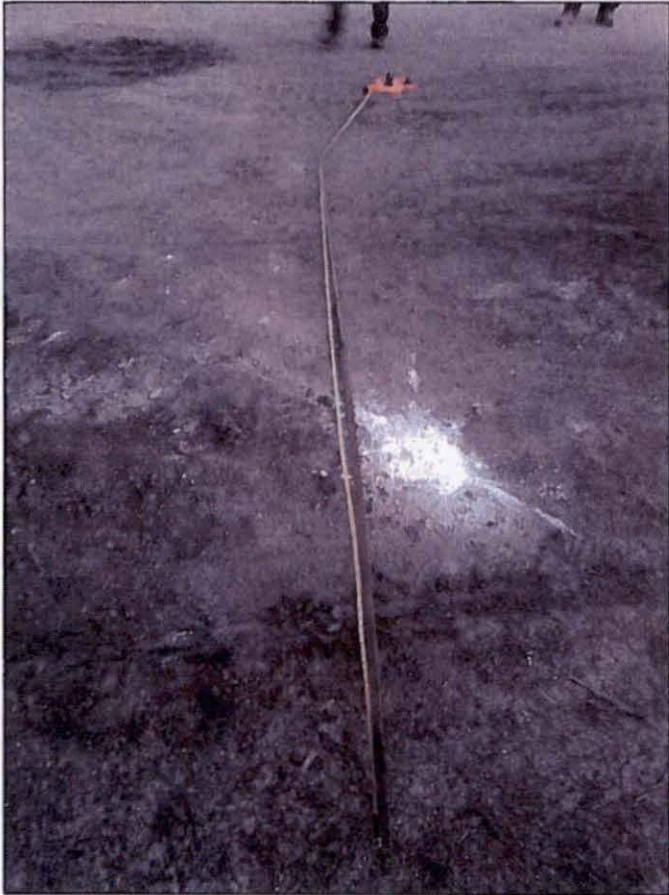
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#61



#62



#63



#64





#65



#66



#67



#68



#69



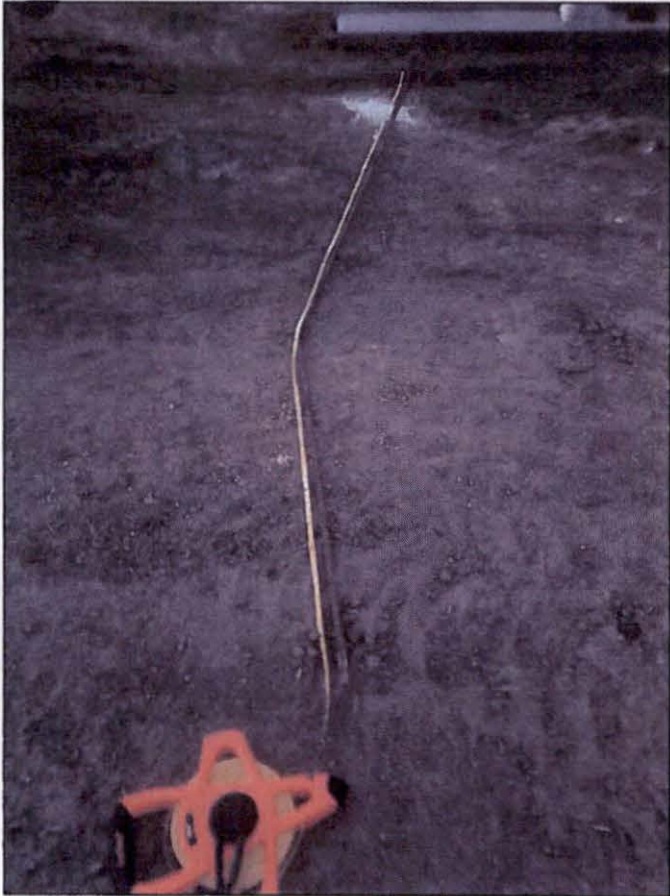
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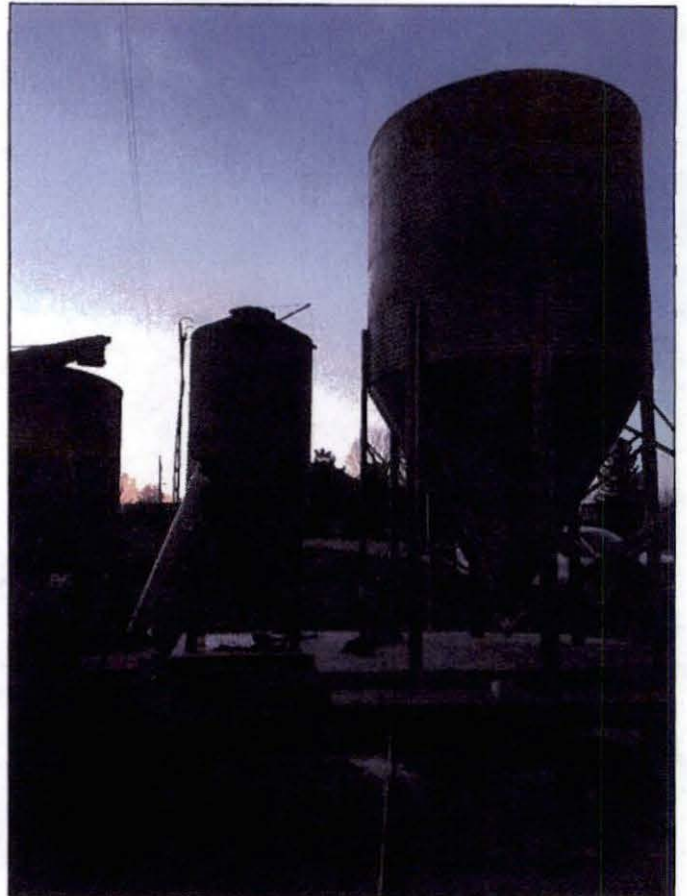
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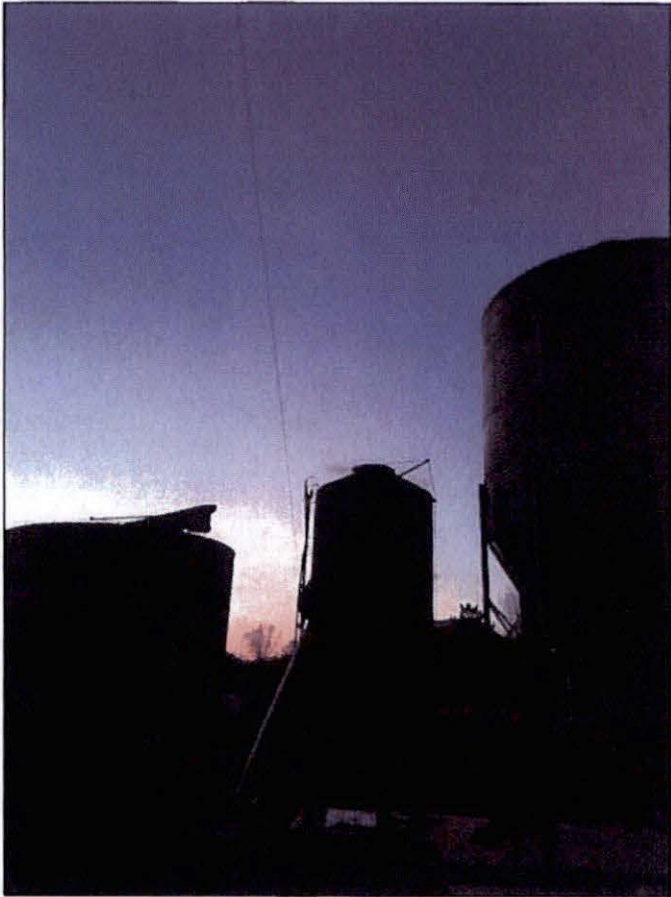
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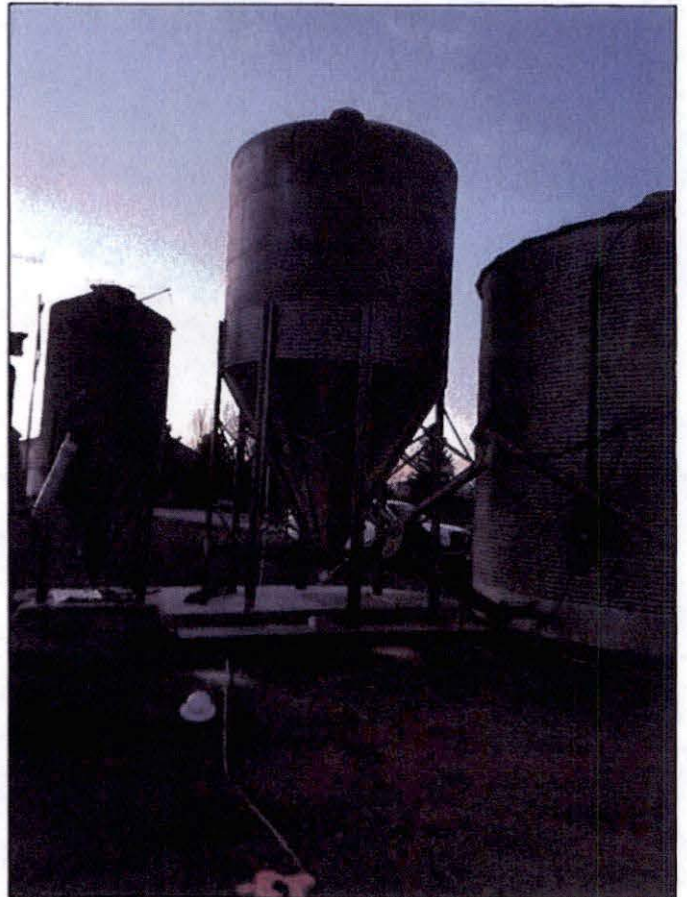
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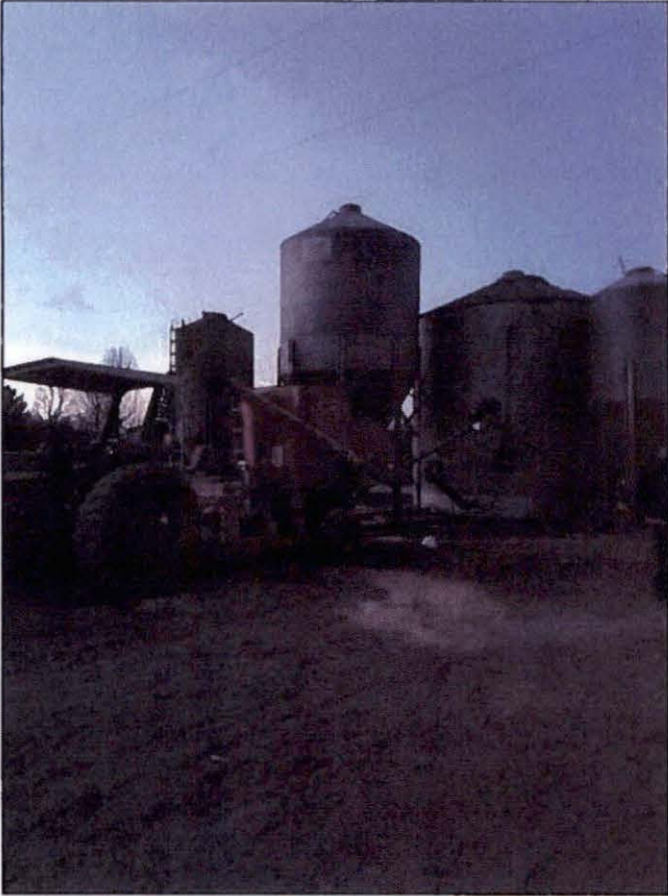
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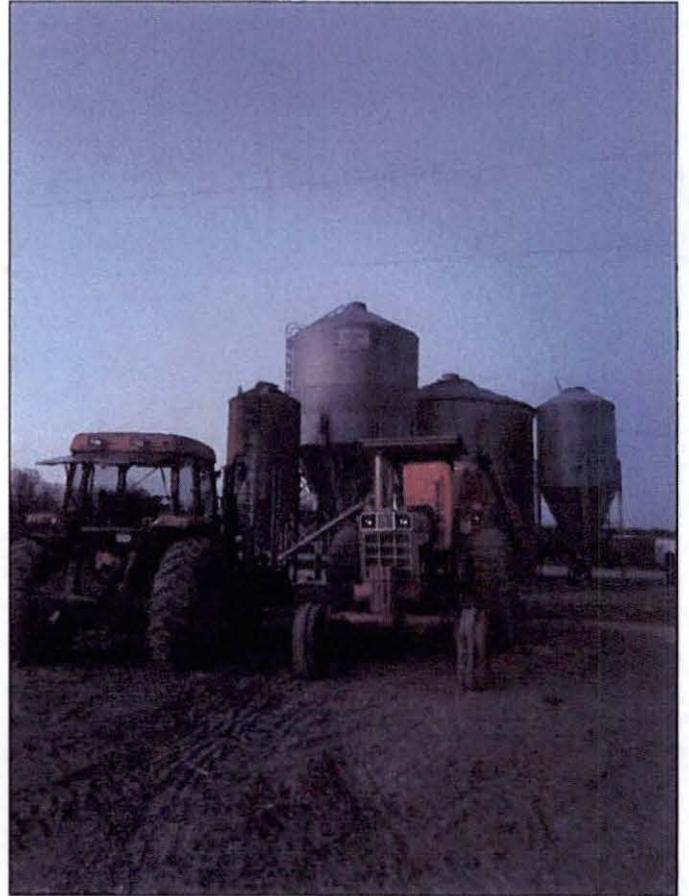
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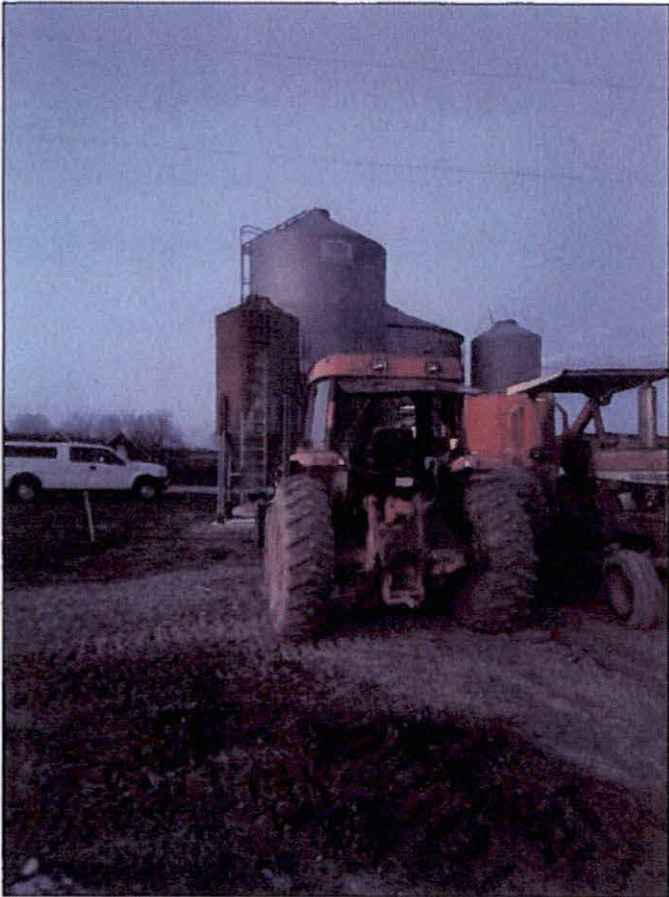
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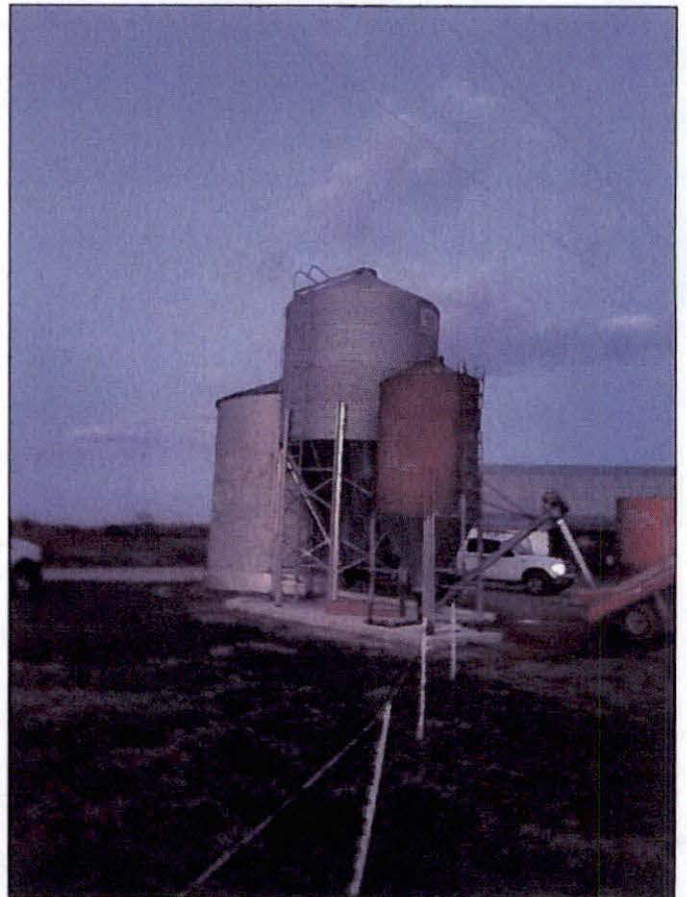
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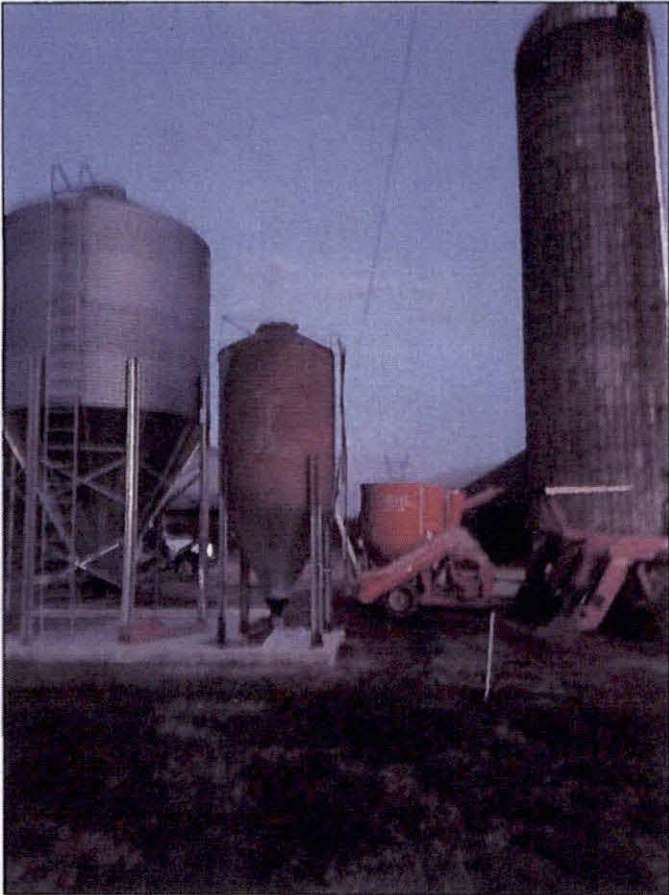


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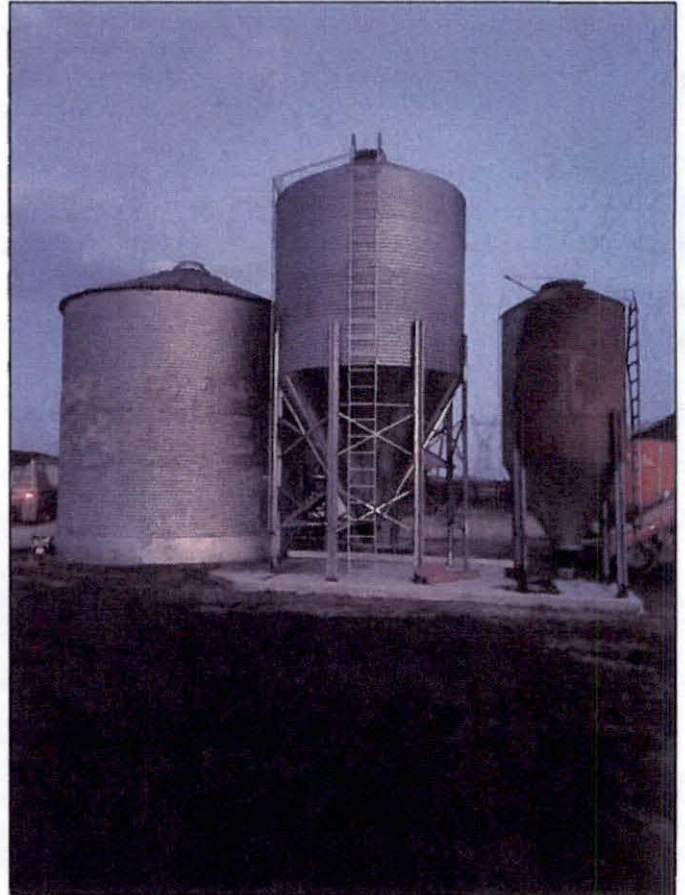


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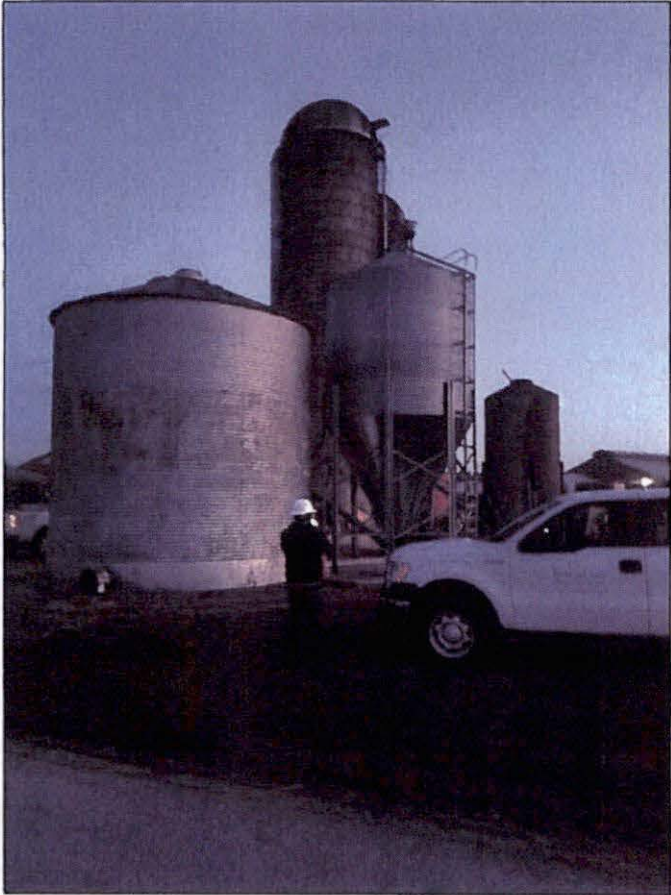




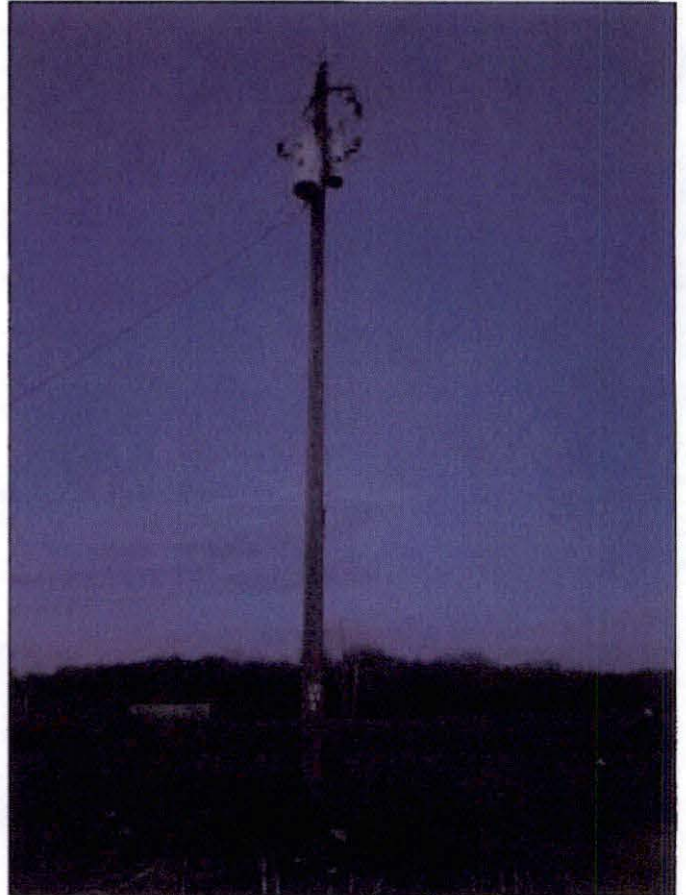
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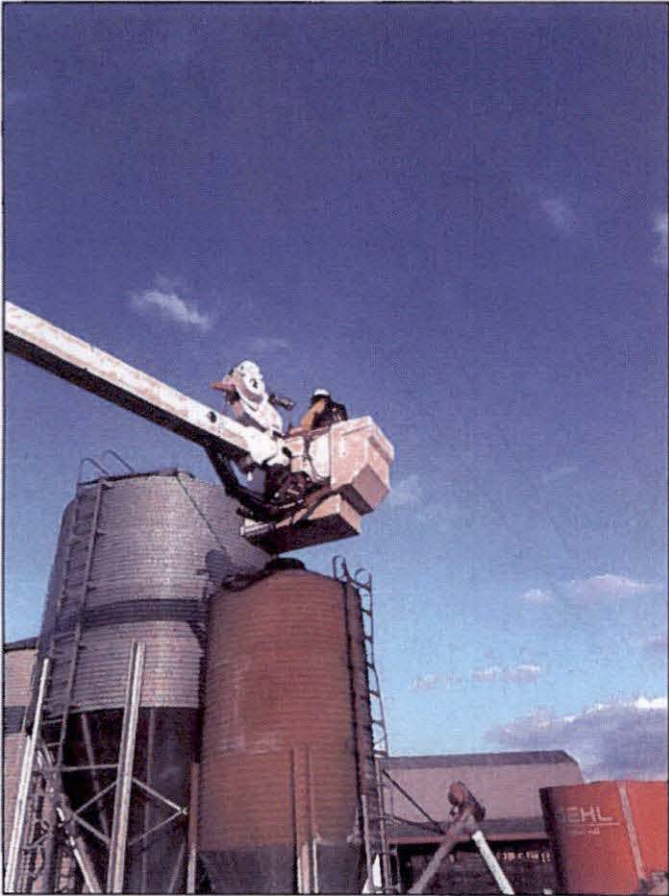
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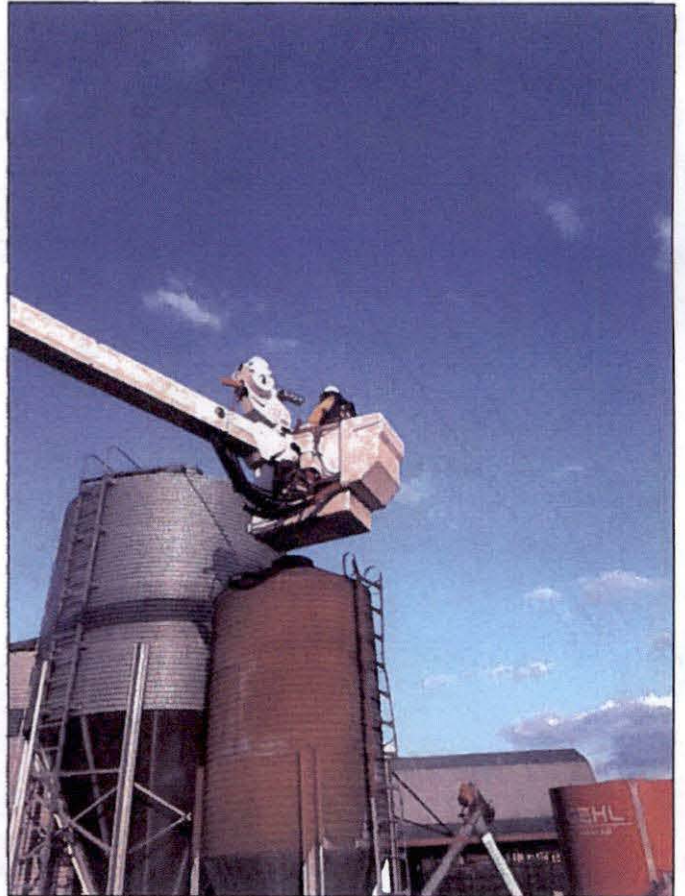
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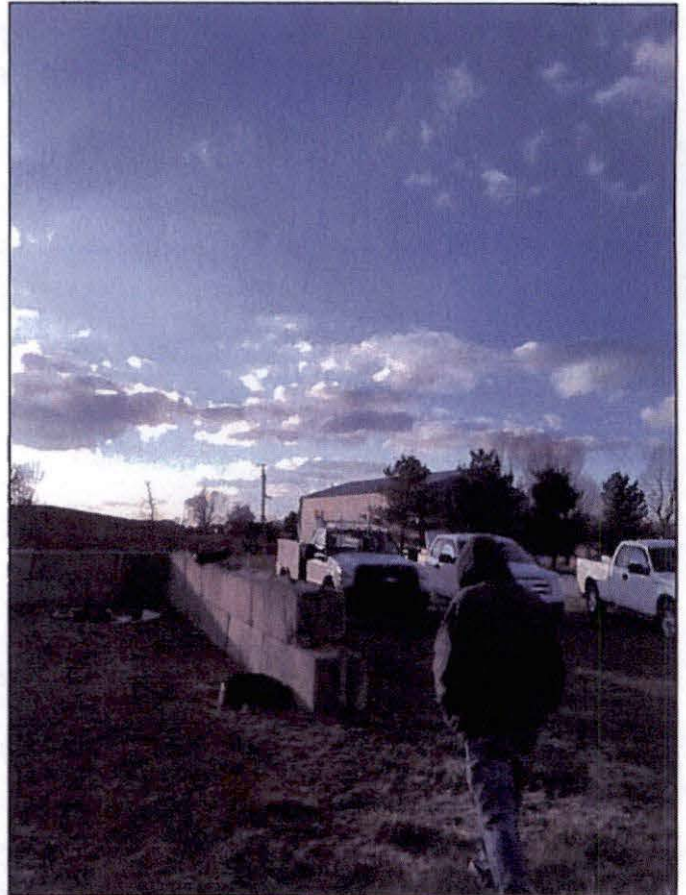
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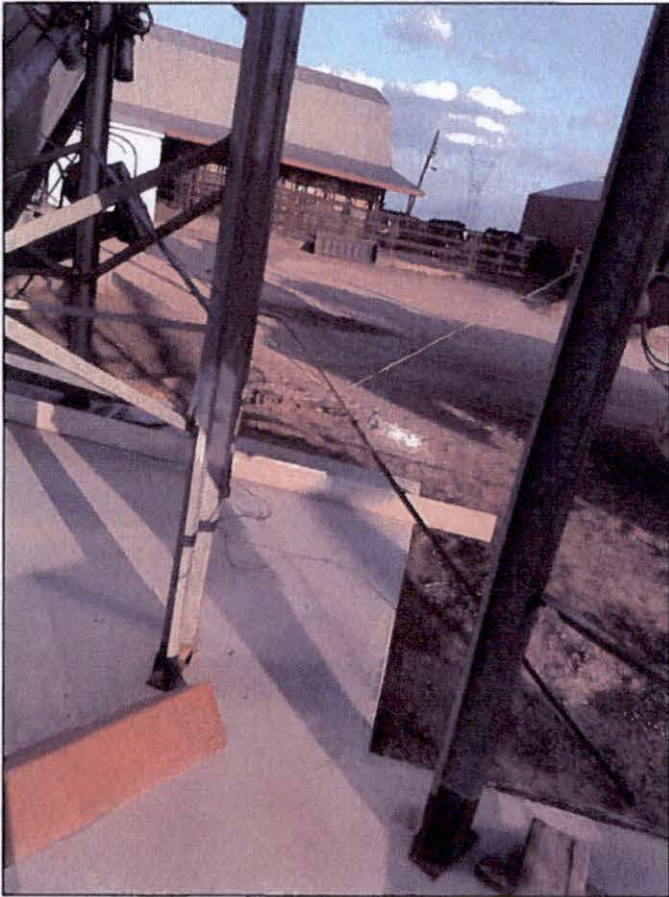
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#87



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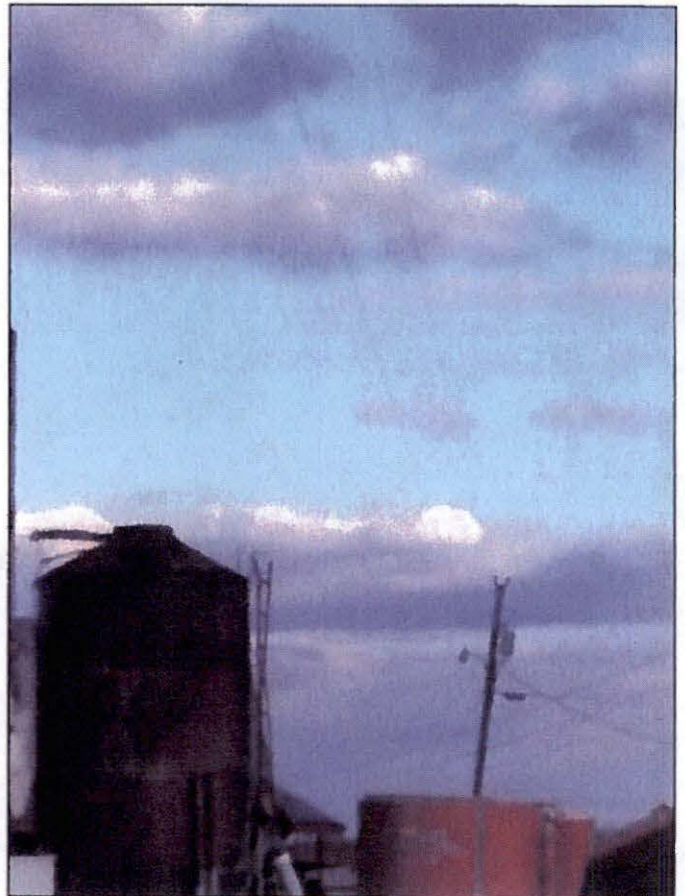
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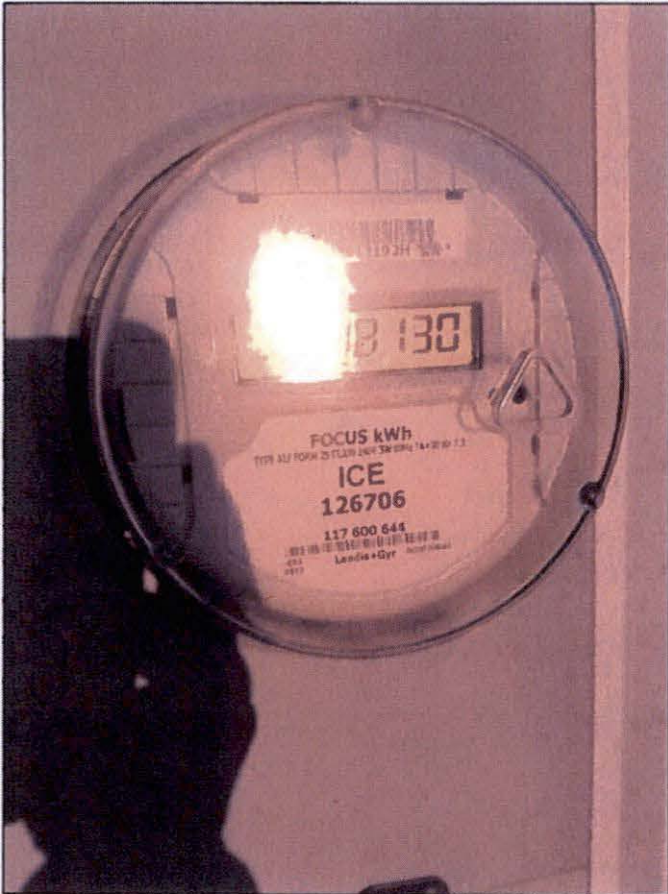
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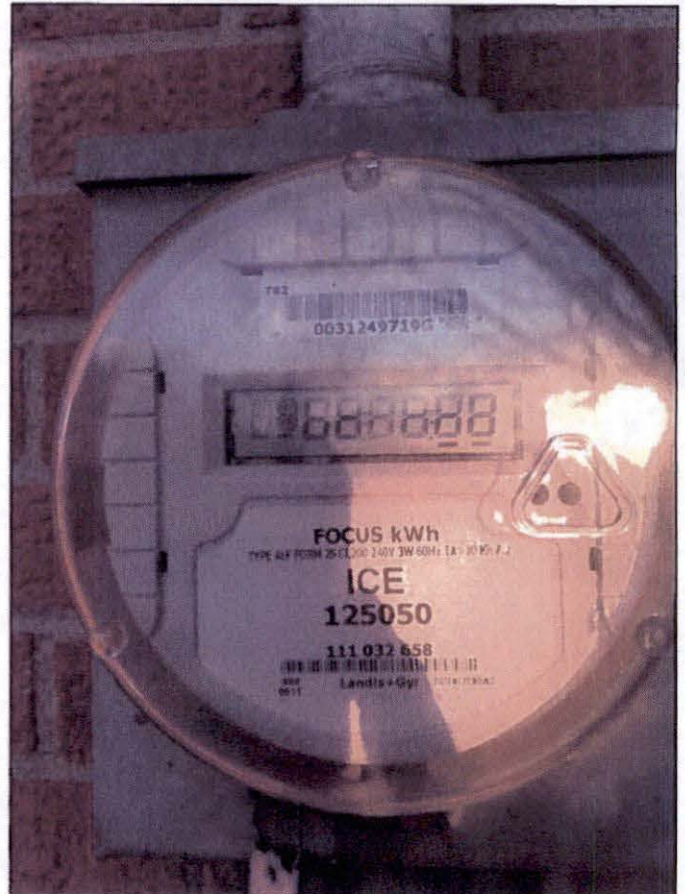
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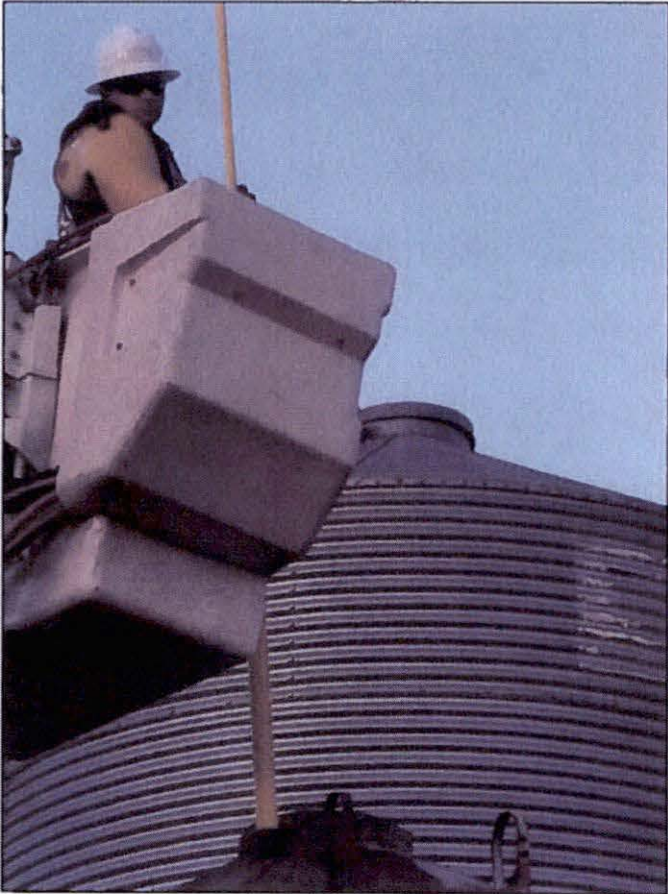
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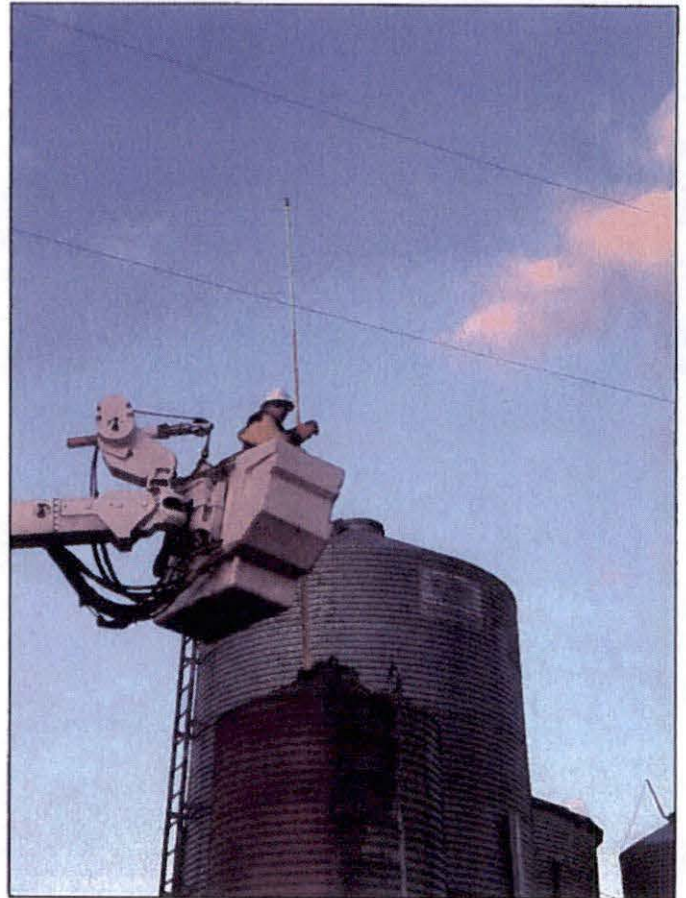
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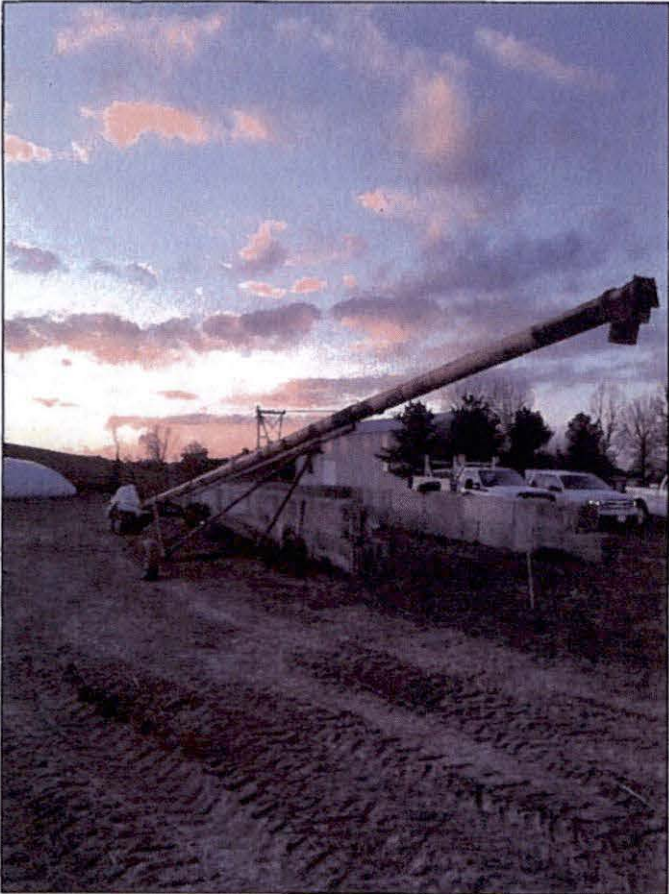


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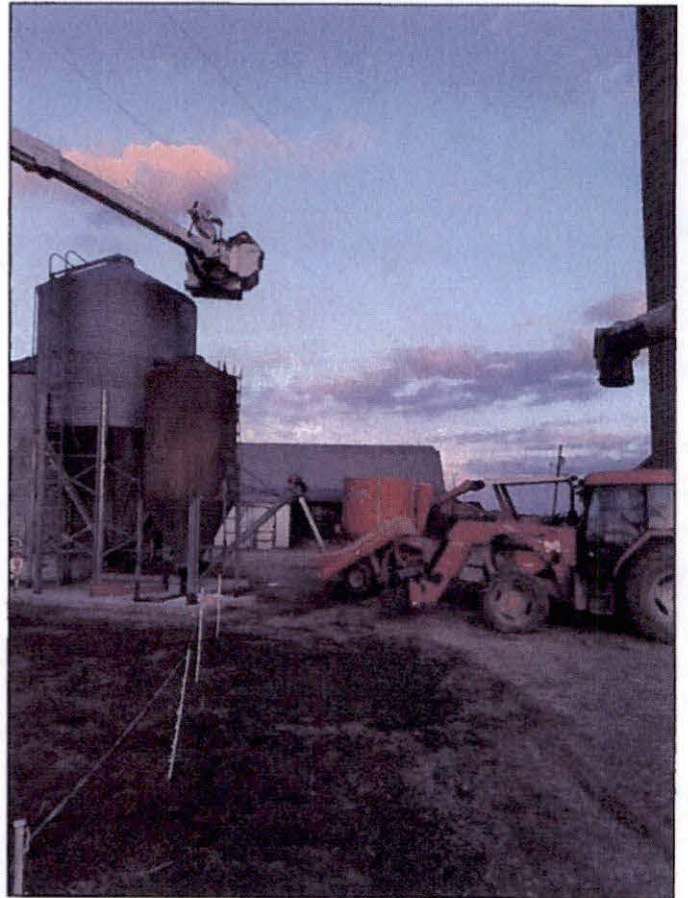


#96





#97



#98

### Application Guide for 2012 NESC Table 232-1 see NESC for details and exceptions

#### Railroads

**Vertical Clearance at Largest Vertical Sag Table 232-1**

Height of Contact or Cable	Standard Span Clear	TPX	7,212.5 kV	14,425 kV	18,030 kV
23.8	34.0	8	28.5		

Minimum occupancy may require greater clearance

#### Trucks Over 8 Feet

**Vertical Clearance at Largest Vertical Sag Table 232-1**

Height of Contact or Cable	Standard Span Clear	TPX	7,212.5 kV	14,425 kV	18,030 kV
15.8	18.0	8	18.5		

DOT may require greater clearance

#### Water - No Sailboats

**Vertical Clearance at Largest Vertical Sag Table 232-1**

Height of Contact or Cable	Standard Span Clear	TPX	7,212.5 kV	14,425 kV	18,030 kV
8.0	12.5	8	17.8		

Based on NESC for outdoor structures

#### Over Fields, orchards, forests, etc.

**Vertical Clearance at Largest Vertical Sag Table 232-1**

Height of Contact or Cable	Standard Span Clear	TPX	7,212.5 kV	14,425 kV	18,030 kV
15.5	18.0	8	15.8		

Based on NESC for outdoor structures

#### Pedestrians Only

**Vertical Clearance at Largest Vertical Sag Table 232-1**

Height of Contact or Cable	Standard Span Clear	TPX	7,212.5 kV	14,425 kV	18,030 kV
8.0	12.0	8	14.0		

Based on NESC for outdoor structures

#### Overized Vehicles - greater than 14 feet in height

**Vertical Clearance at Largest Vertical Sag Table 232-1**

Height of Contact or Cable	Standard Span Clear	TPX	7,212.5 kV	14,425 kV	18,030 kV
8 + 1.5	8 + 2.0	8	8 + 2.0		

TPX: Height of overized vehicle

### Application Guide for 2012 NESC see NESC for details and exceptions

#### Clearance\* Near Grain Bins Loaded by Portable Auger NESC 234F2

**Vertical Clearance at Largest Vertical Sag Table 232-1**

Height of Contact or Cable	Standard Span Clear	TPX	7,212.5 kV	14,425 kV	18,030 kV
23.8	34.0	8	28.5		

**Vertical Clearance Over\* Buildings NESC 234C**

Height of Contact or Cable	Standard Span Clear	TPX	7,212.5 kV	14,425 kV	18,030 kV
20.0	22.0	8	20.0		

**Horizontal Clearance Adjacent to Buildings NESC 234C**

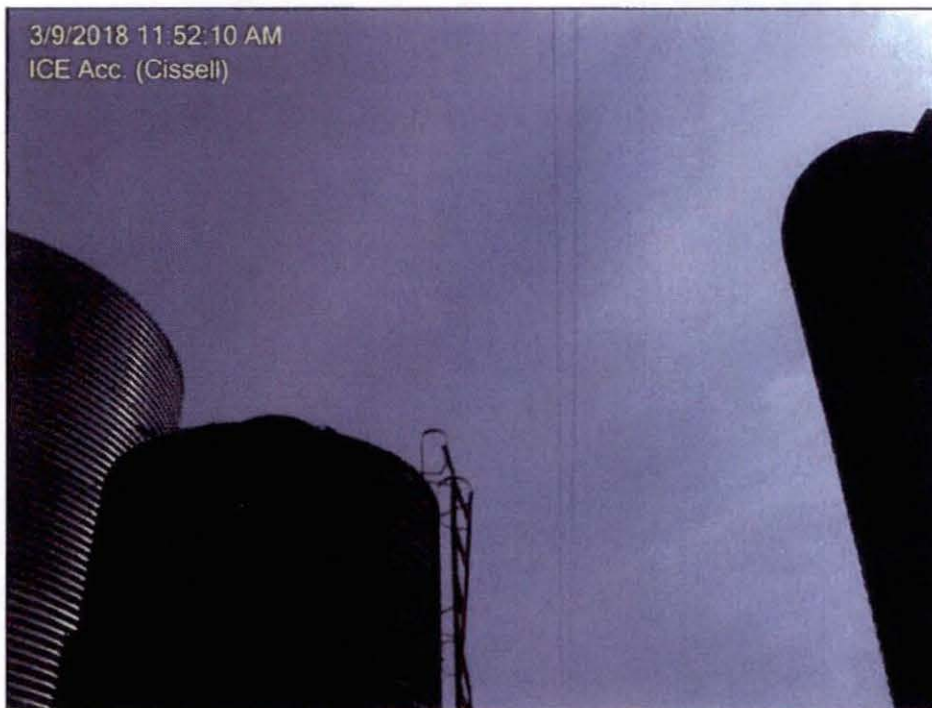
Height of Contact or Cable	Standard Span Clear	TPX	7,212.5 kV	14,425 kV	18,030 kV
10.0	10.0	8	10.0		

#99

#100



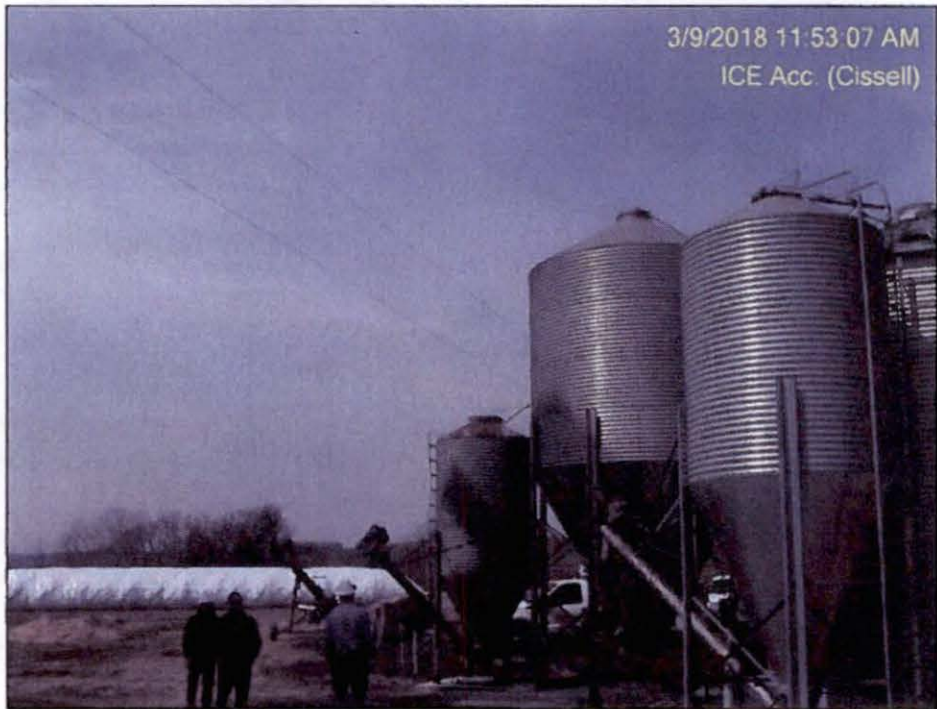
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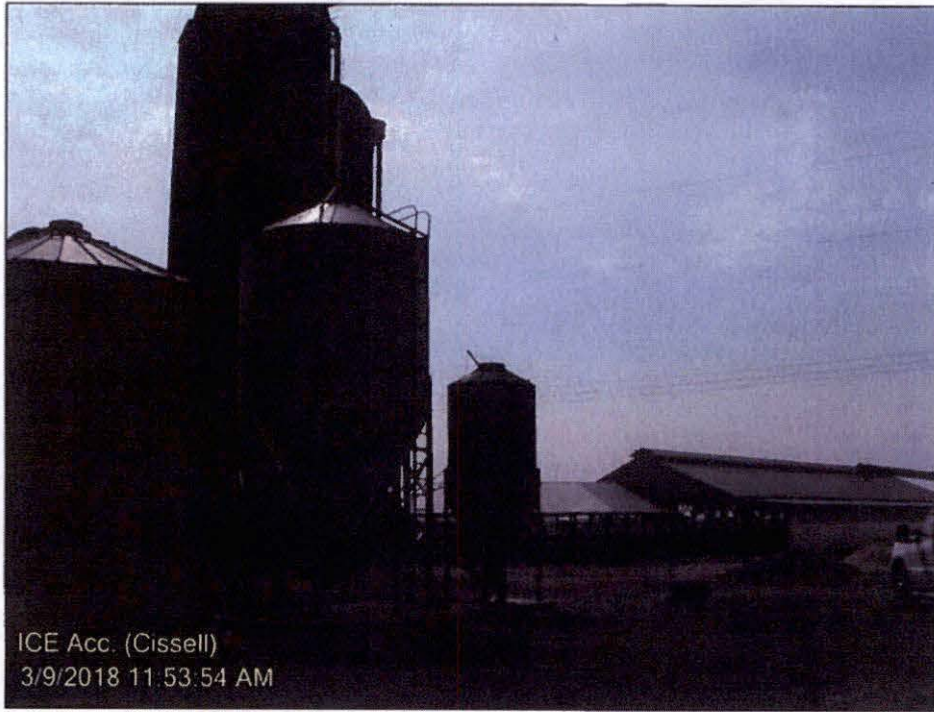
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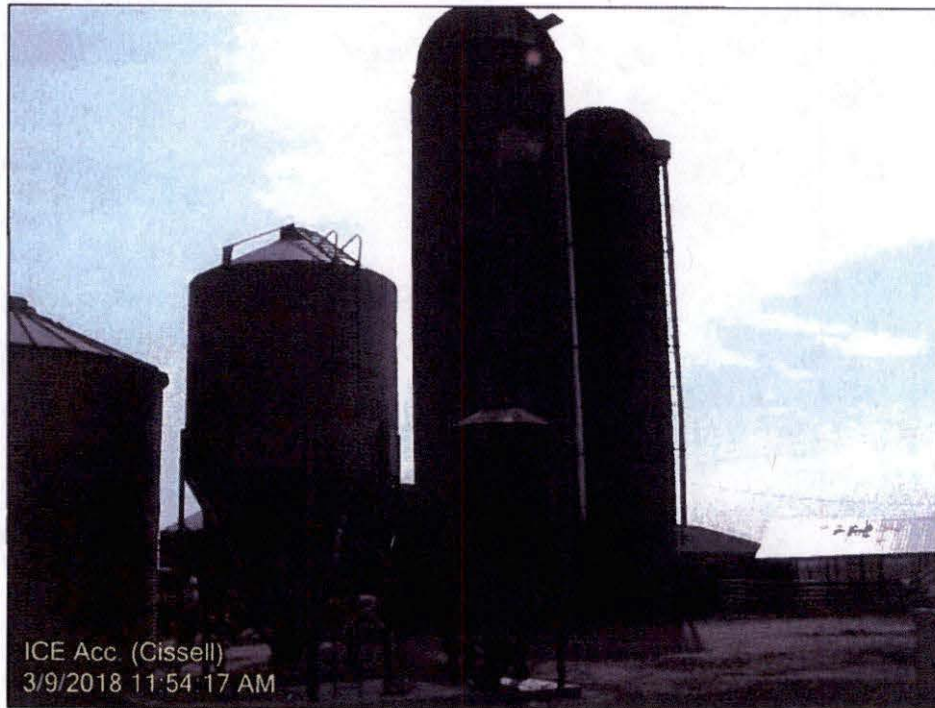
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**#104**



**#105**



**#106**



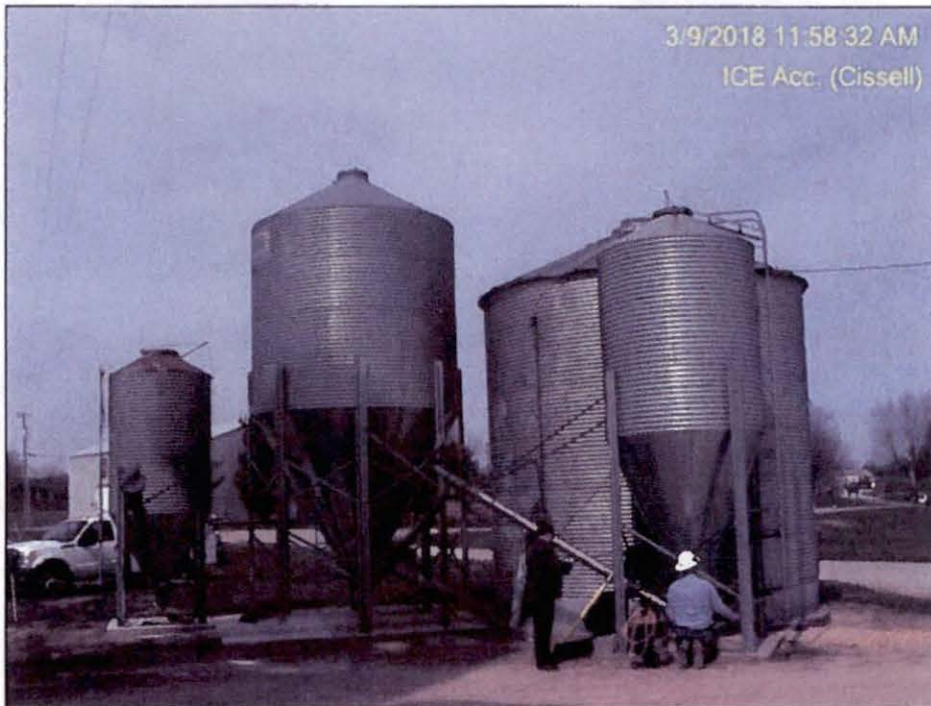
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**#108**



**#109**



**#110**



**#111**



**Attachment B**

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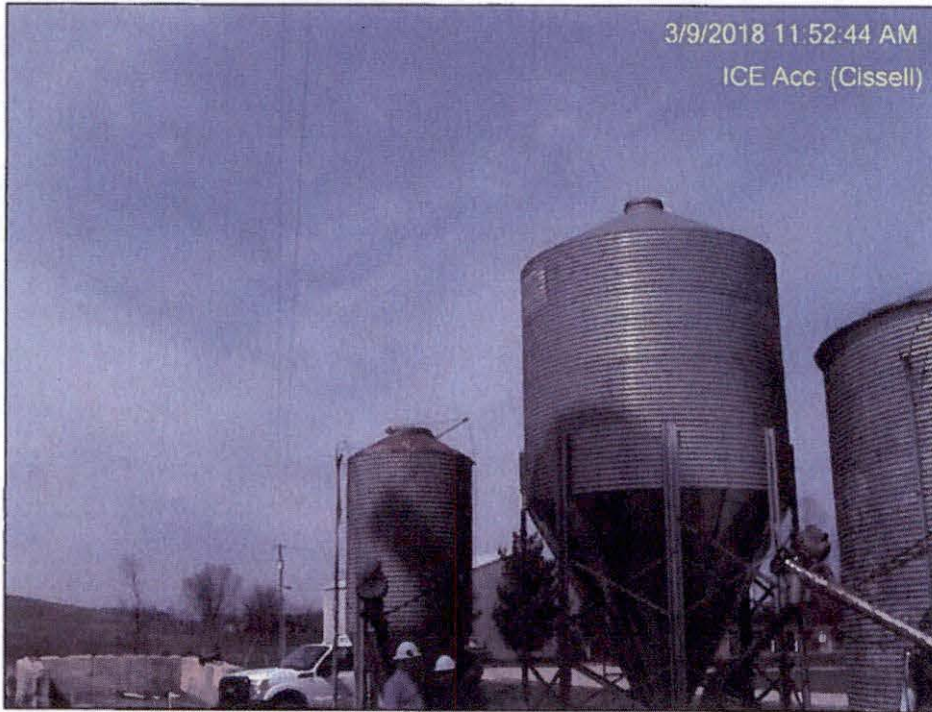
**KPSC Photographs of Accident Site**



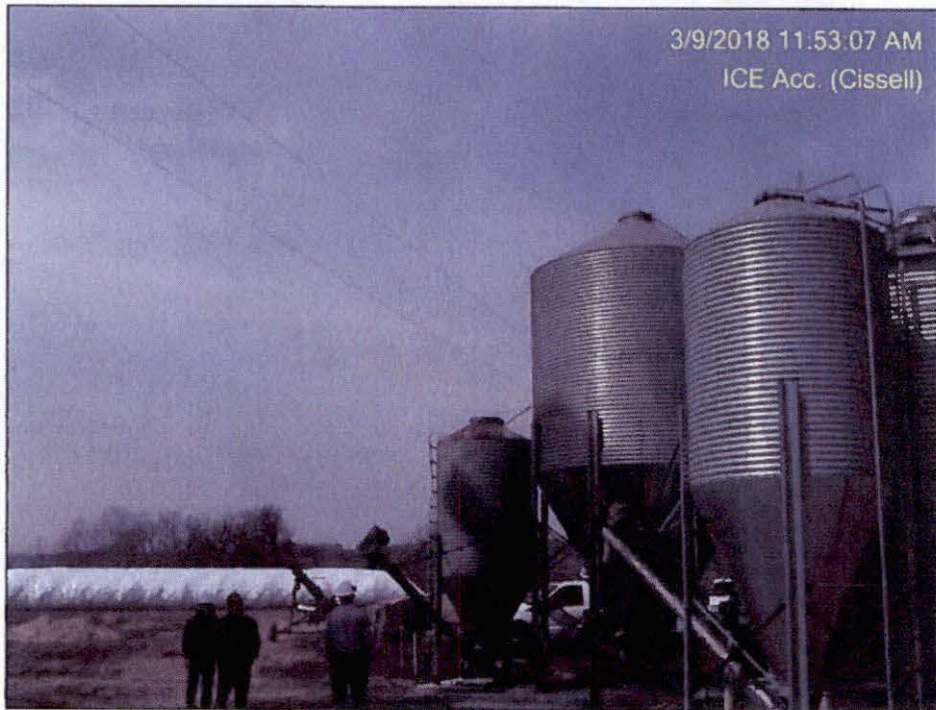
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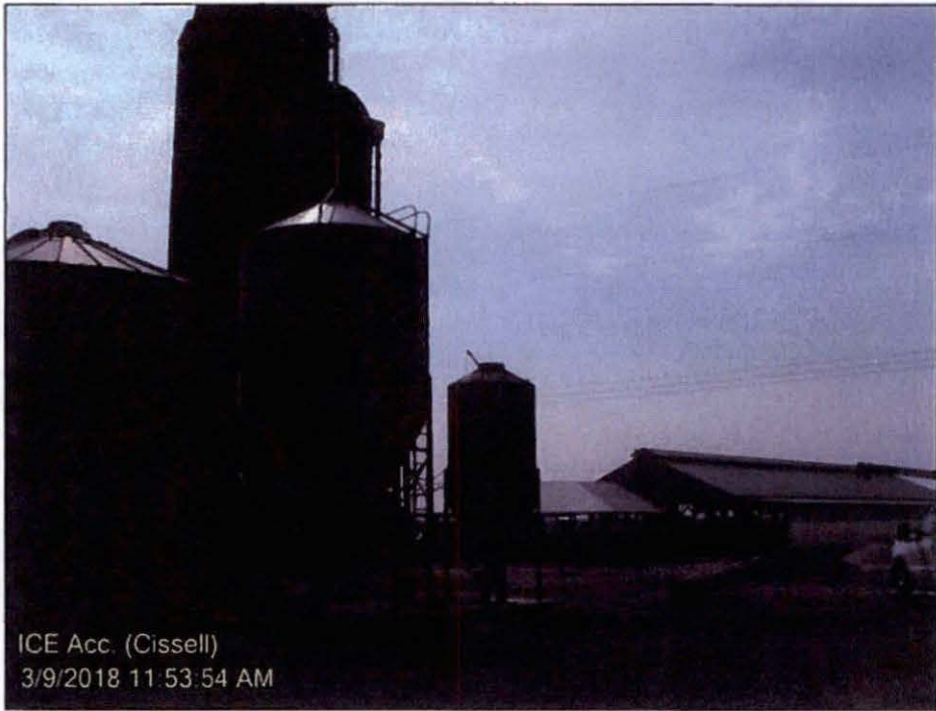
**#2**



**#3**



**#4**



#5



#6



**#7**



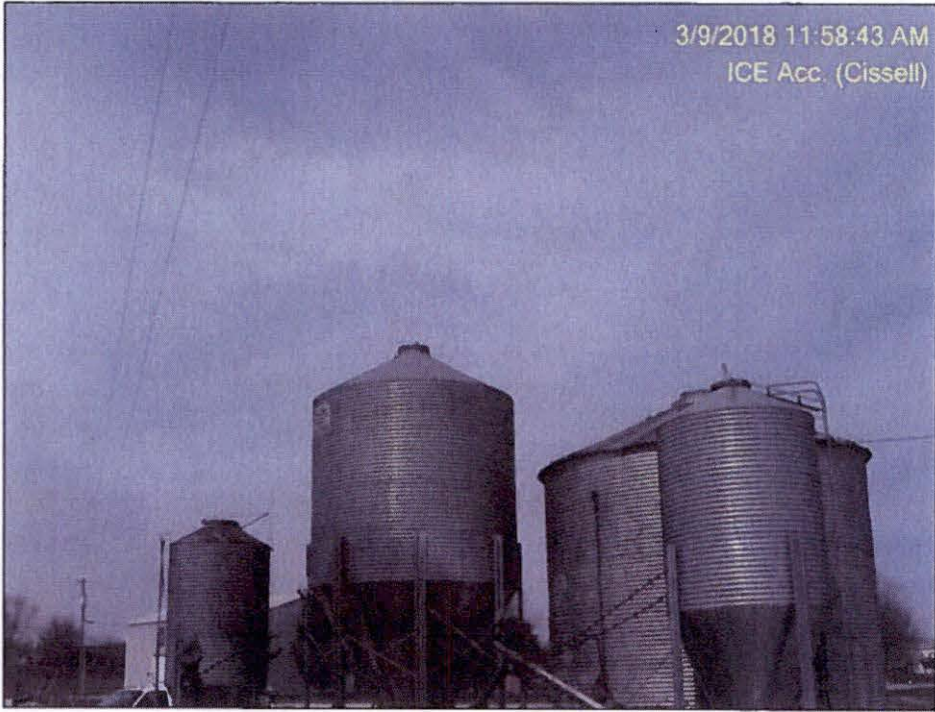
**#8**



**#9**



**#10**



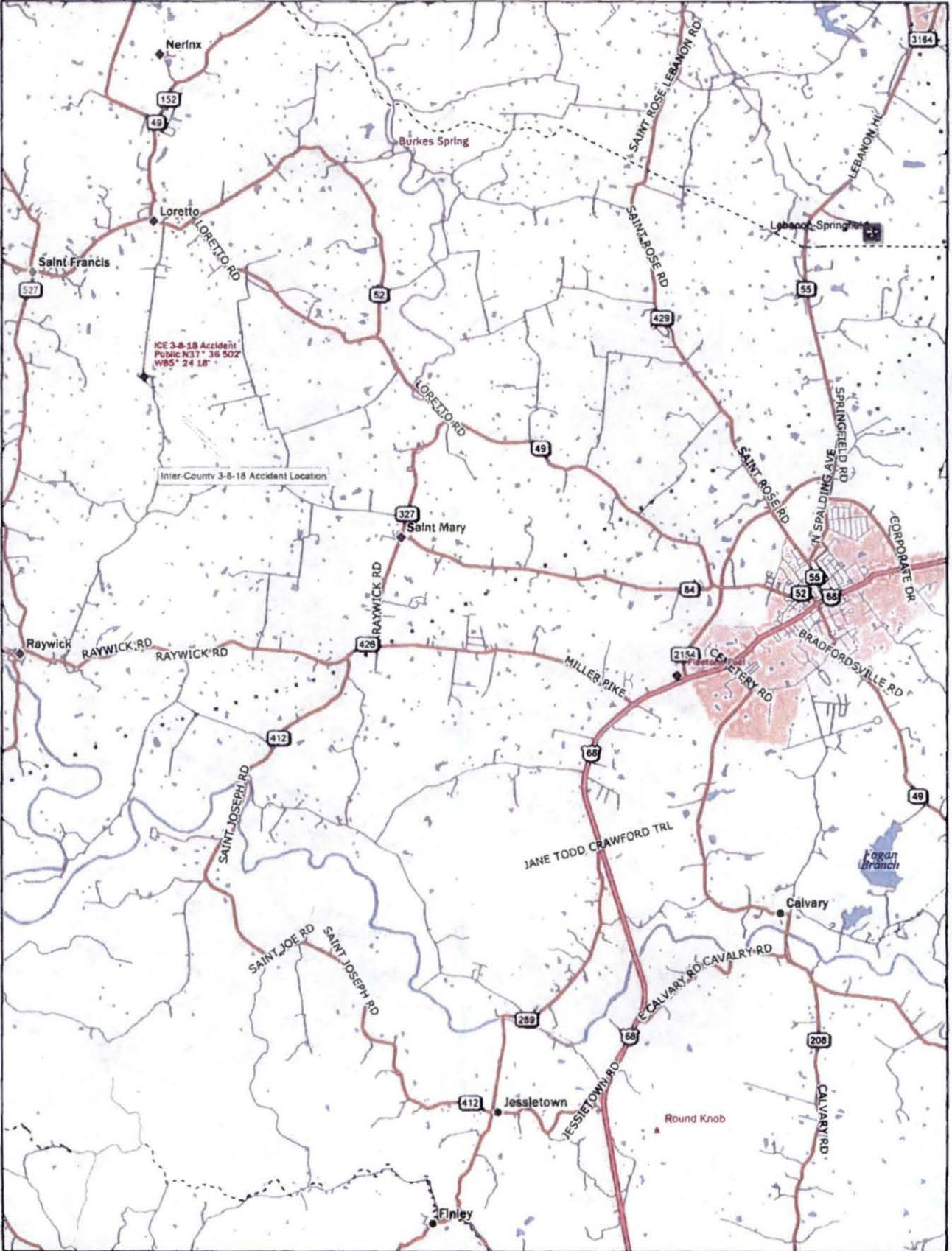
**#11**

**Attachment C**

---

**KPSC Map of Accident Site**





Data use subject to license.

© DeLorme DeLorme Street Atlas USA® 2015.

www.delorme.com



Scale 1 : 100,000



1" = 1.58 mi

Data Zoor621-0

**Attachment D**

---

**Accident Notification Information**

**Kingsolver, Steve R (PSC)**

---

**From:** PSC - Utility Electric Notifications  
**Sent:** Thursday, March 08, 2018 6:08 PM  
**To:** EEC PSC Electric Notifications  
**Subject:** FW: Shock Incident

---

**From:** David Phelps  
**Sent:** Thursday, March 8, 2018 6:06:53 PM (UTC-05:00) Eastern Time (US & Canada)  
**To:** PSC - Utility Electric Notifications  
**Subject:** Shock Incident

Around 4:45 I was contacted by Kenny Gribbins, construction superintendent for Inter County Energy, that a contact was made between an individual and our primary line. The individual was flown out by EMS. We have staff on site and are acquiring additional information at this time.

***David L. Phelps, P.E.***

V.P. Engineering & Operations  
Inter County Energy  
1009 Hustonville Rd.  
P.O. Box 87  
Danville, Ky. 40423  
Cell: (859) 516-3314

**Kingsolver, Steve R (PSC)**

---

**From:** PSC - Utility Electric Notifications  
**Sent:** Thursday, March 08, 2018 7:42 PM  
**To:** EEC PSC Electric Notifications  
**Subject:** FW: Inter-Co. Accident reported earlier.

---

**From:** Kingsolver, Steve R (PSC)  
**Sent:** Thursday, March 8, 2018 7:41:54 PM (UTC-05:00) Eastern Time (US & Canada)  
**To:** PSC - Utility Electric Notifications  
**Subject:** Inter-Co. Accident reported earlier.

I talked with David Phelps a few minutes ago about this accident. This accident involved a grain bin. The victim was using a 16' probe at the time of the accident and made contact with a primary conductor. The victim was taken to the local hospital and then flown to U of L Med Center.

I will be going to Inter-Co tomorrow to look at this.

Steve Kingsolver.

Sent from my iPhone

**Attachment E**

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**NESC Grain Bin Diagram**

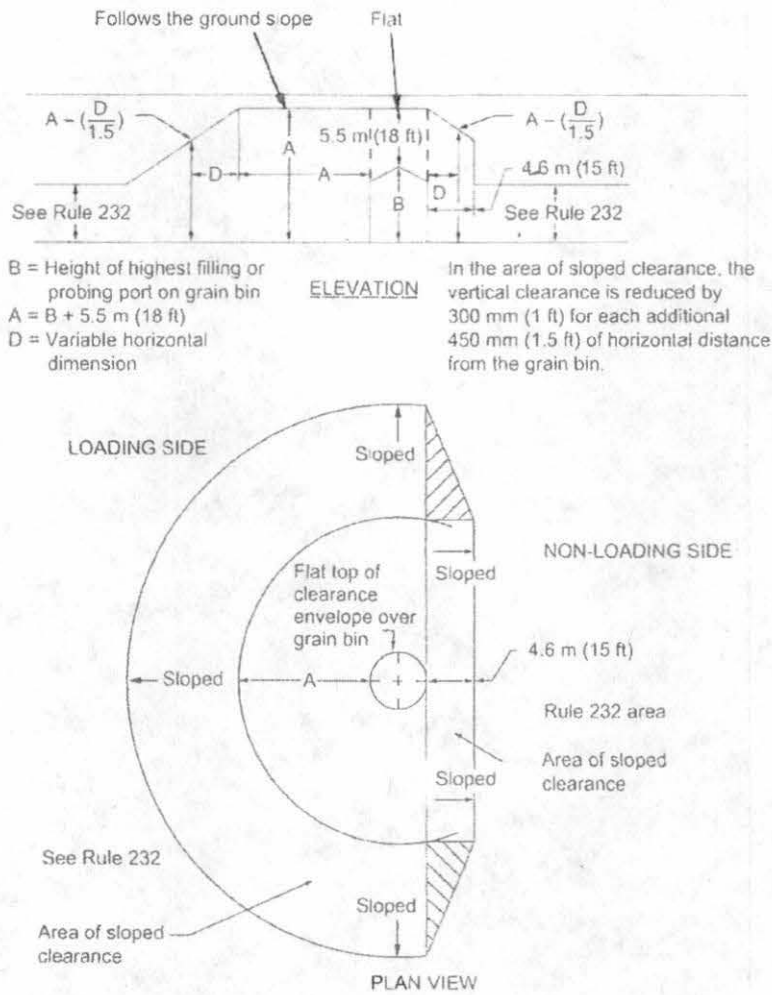
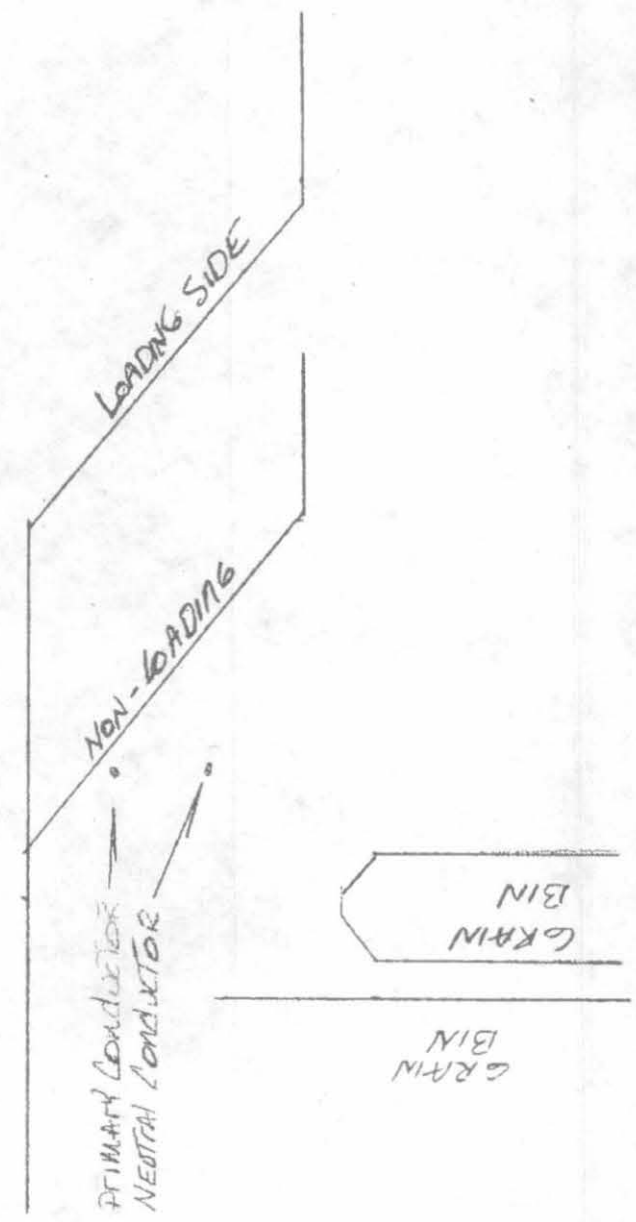


Figure 234-4(b)—Clearance envelope for grain bins filled by portable augers, conveyors, or elevators

BOTH CONDUCTORS ARE IN THE CLEARANCE ENVELOPE.  
 THIS DOES NOT MEET THE REQUIREMENTS OF THE NESL  
 FOR LOADING SIDE AND NON-LOADING SIDES OF GRAIN BIN.  
 THIS WAS A LOADING SIDE ACCIDENT.



## Attachment F

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### Site Correction Information



The information below is a conformation from David Phelps, VP of Engineering and Operations with Inter-County Energy, that the corrections at the accident site were completed. The primary and neutral conductors at the accident site were removed and installed at a different location.

Steve Kingsolver

**From:** David Phelps  
**Sent:** Monday, April 16, 2018 10:34 AM  
**To:** [Steve.Kingsolver@ky.gov](mailto:Steve.Kingsolver@ky.gov)  
**Subject:** Line removal

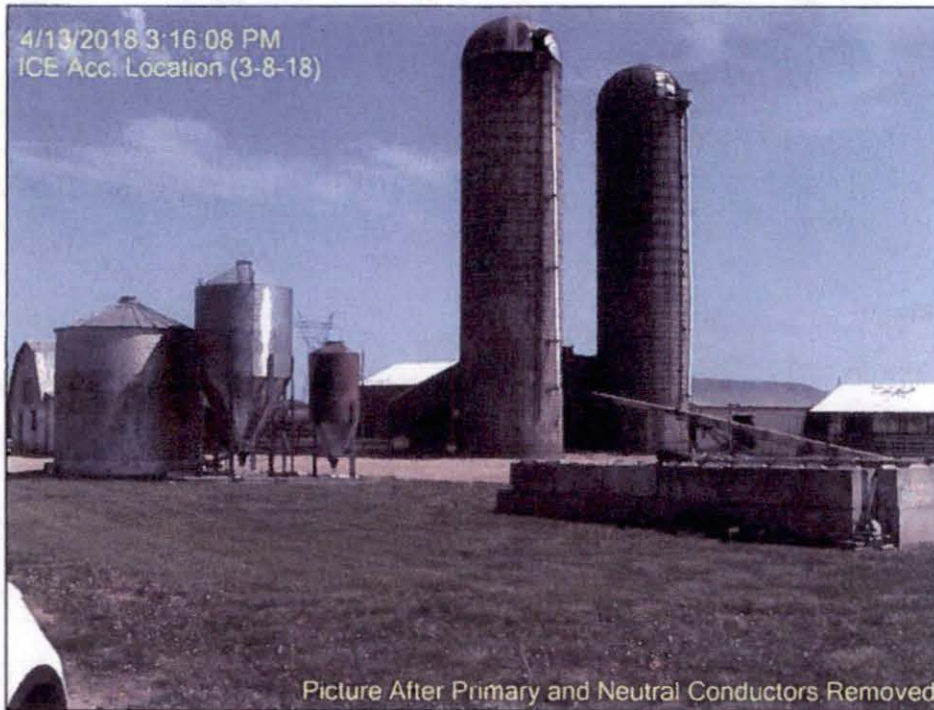
Hello Steve,  
Per our conversation this morning, here is the information you requested:

The work to reconfigure and move the line was on March 16<sup>th</sup>, 2018. On March 16, 2018 Inter County Energy's engineer and crews went to 1915 Spencer Hamilton Road, the location at which the Joey Cissell contact occurred. There they proceeded to get permission and permits required to reconfigure the supply of electric service to the members in the area. Upon construction of a new span up line from the grain bin location, they were able to remove the span of primary at which the contact occurred.

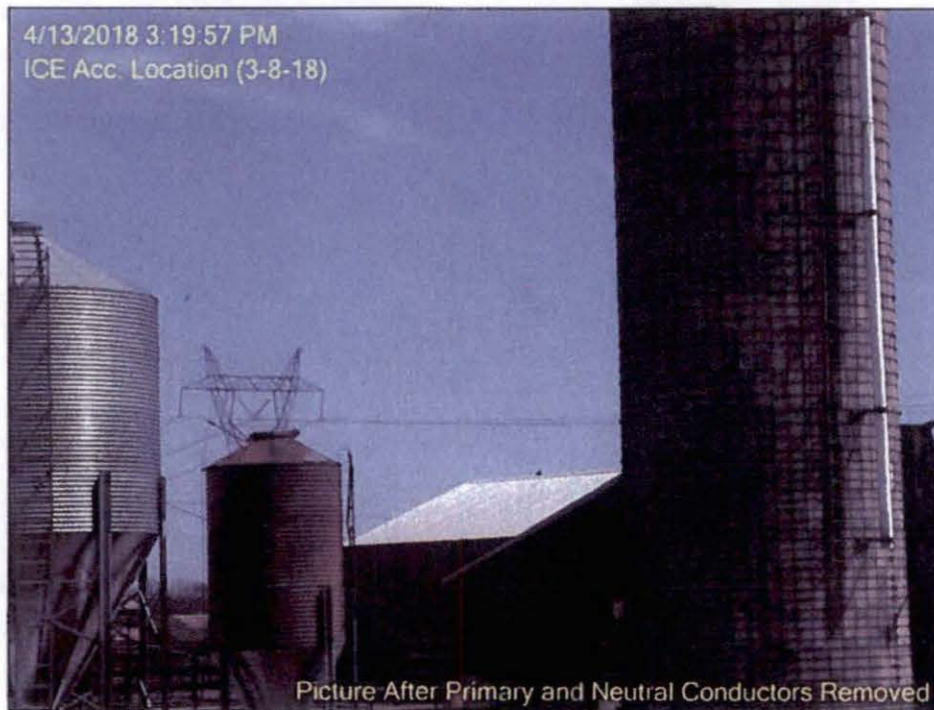
Thanks,  
**David L. Phelps, P.E.**  
V.P. Engineering & Operations  
Inter County Energy  
1009 Hustonville Rd.  
P.O. Box 87  
Danville, Ky. 40423  
Cell: (859) 516-3314

The following photographs were taken by Steve Kingsolver, Public Service Commission, on April 13, 2018. The photographs show the area where the accident took place with the removal of the primary and neutral conductors.

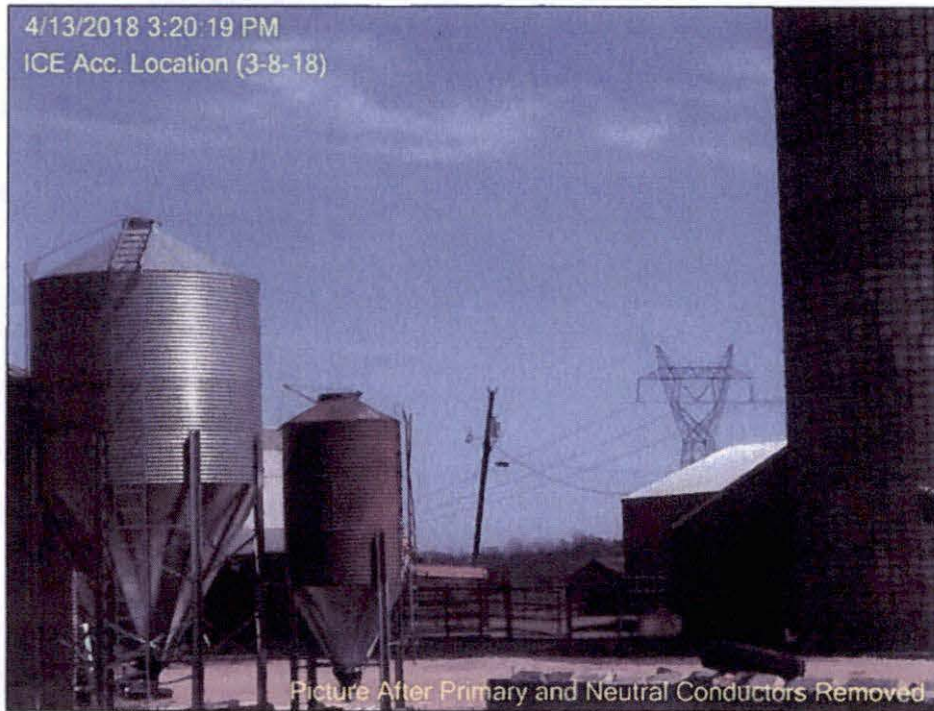
Steve Kingsolver



**#1**



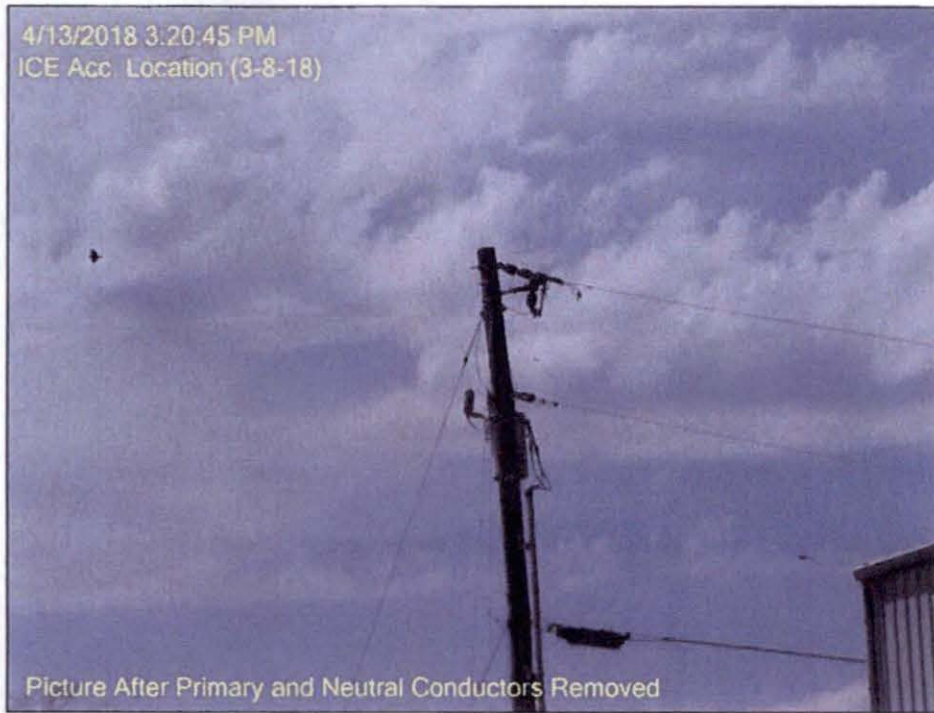
**#2**



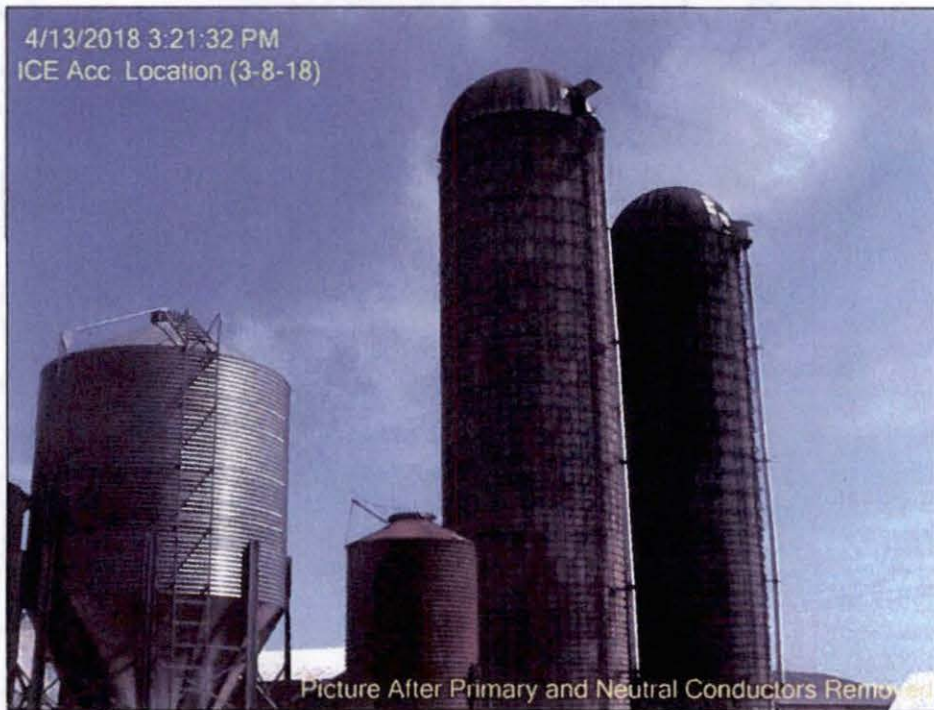
**#3**



**#4**



**#5**



**#6**

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P. O. Box 87  
Danville, KY 40423-0087

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