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

<u>order</u>

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

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¹ KRS 278.010(3)(a); KRS 279.210.

Case No. 2011-00280

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.

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Case No. 2011-00280

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.

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:

 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

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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.

Case No. 2011-00280

By the Commission

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ATTEST:

Canna Brunnellar Executive Director

Case No. 2011-00280

APPENDIX

APPENDIX TO AN ORDER OF THE KENTUCKY PUBLIC SERVICE COMMISSION IN CASE NO. 2011-00280 AUG 1 8 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 CooperativeReported By: Marvin GrahamDate Incident Occurred:April 6, 2011Date Utility Notified:April 6, 2011Date PSC Notified:April 6, 2011Date PSC Investigated:May 5, 2011

Approximate Time: 1:06 PM Approximate Time: 1:10 PM Approximate Time: 2:28 PM Approximate Time: 9:30 AM Date Report Received: April 11, 2011

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

Incident Description:

PSC Investigator: Jeff Moore

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	e hand and two more bur	ns to his left foot.

Witness: Warren GoochAddress: UnknownEmployer: Bluegrass AgWitness: Bobby BarnettAddress: 3720 Goshen RoadEmployer: UnknownStanford, KY 40484Stanford, 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 sevenday 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 nonloading 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: one

Date: 5/26/2011

REPORT REVIEWED BY: John Shupp Engineering Division Kentucky Public-Service Commission

Signature:

Date: 5/26/2011

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



A Touchstone Energy Cooperative

APR 1 1 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. II:

Charlie Lewis Safety/Loss Control Coordinator

Inter County Energy

				Document#		
Date of Accident	4/6/2011	Time of Day	1:06	AM	Р М	
Accident Location	Bluegrass Ag Distri 3696 Kirksville Rd-	ibutors Lancaster, Ky. 40444		• • • • • • • • • • • • • • • • • • •		
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lap Location						
an a		Describe accide	nt			
ehicle Accident		Contact 🗸		Other		
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No damage to Inter-C tire due to electrical co	ounty Energy equipment or lines. Grain auger that was involved in the accident had a flat ntact.
	
Were photos taken	Yes No
Name of	David Phelps
photographer	
Photographer's	PO Box 87
Address	Danville, Ky 40423
Phone # 859-516-3	314- cell
	Victim #1
	n en
Name of Victim	Justin Hubbard
Describe Injury Victim	it is believed but not verified that he had burns to his hands and one foot
Francisco de First Aid a	
Emergency First Aid a	administered at scene Ves No
Name of person ac	Iministering First Aid Lancaster EMS
Address	
Phone # 859-358-0	251
	How was victim transported
Squad	Private Ambulance Police
Other 🔽	Describe Mr Hubbard drove himself to Fort Logan Hospital
Time Victim Transpo	rted AM 🔽 PM
Time Victim Arrives A	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

2

Name of Witness	See Attached				
Witness Involved in	n Accident 🔲 Yes 🔽 No				
Witness Addres	s			•	
Witness Phone :	#	•	•		
	en en en en en estado	warden an the second			PM
If witness wasn't in	volved in accident what time did the	y arrive on the scene	on scene		
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Attached

Diagram

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

Inter County Energy Witness Statement #1

		· Pa	agenorn	
		Document #		
Date of statement	4/6/2011 Time of Day ap	proximately 2:15	AM	√ РМ
Witness name	Warren Gooch			
Witness address	Employee of Bluegrass Ag Distributors- 3696 k Lancaster, Ky 40444	Girksville Rd	anna an	
Witness phone #	859-792-2168 (work)			
Was witness Involve	d in Accident 🔲 Yes 🖓 No			•
If witness wasn't invo	lved in accident what time did they arrive on the	scene on scene	AM	D PM
Justin has been an e I was walking toward another. Before I co feet. He had both he "addled" is an under fallen and each time and was standing 4	scribe in your own words what happened mployee for roughly 2 months. There was a lot I the grain auger to help Justin move it into por- uld reach him, he contacted the line and began ands on the auger. He collapsed and moaned statement to describe how he reacted. The arc it would happen he would moan and roll furth 5 seconds after the accident occurred. After c to work. Mr. Prewitt (owner) insisted that he go	going on with people sition to move feed fr to moan as an arc w and began to roll awa happened a few more er away. He did not he was checked in	needing to om one gr as happer by. To use e times aft lose conso	get feed. ain bin to ing at his the word er he had ciousness
	ts described above, and this is my complete sta	ement		
Witness name			Date _	
Witness signature			Date _	
Received by			Date _	
Signature			Date	

Inter County Energy Witness Statement #2

			•	. '	F	Page 1 of 1	
•	• · · · ·	ei -			Document #		
Date of statement	4/6/2011		Time of Day	approxima	ately 2:25	AM	🗹 РМ
Witness name	Bobby Barnett						
Witness address	3720 Goshen Road Stanford, Ky. 40484						
Witness phone #	859-879-2214						······································
Was witness Involve	d in Accident	Yes	No No				•.
If witness wasn't invo	lved in accident what	time did ti	hey arrive on t	he scene	on scene	AM	
I was watching them turned it directly into auger. He had a bu	scribe in your own n move feed. That's w the line. There was arn on one hand and t himself to the hospita	vhy I was a big arc two more I.	there. As the and the asph burns to his	e employed alt was co left foot.	e was moving ming up arou After they ch	g the grain and the bot	auger, he om of the
I witnessed the ever	nts described above, a	nd this is	my complete	statement			
Witness name						Date	
Witness signature						Date	
Received by						Date	
Signature	••••••••••••••••••••••••••••••••••••••					Date	

11





6-David #11-Kent. #3-charlie DATE: 4-6-11 H: Employee Signature ENERGY 116 Church DANVILLE, KY OUTAGE REPORT BeauchAmp rewar way A: OUTAGE REPORTED CONSUMER NAME AMPRO **B: ARRIVED AT SITE** 45 ADDRESS AMIED C: SERVICE RESTORED 771 F: ACCOUNT NO J 11083042 AMIEM FIELD DATA LINE DE-ENERGIZED AT SECTIONALIZING DEVICE# TRANSFORMER# 21621 DOID **OTHER - INDICATE UNDER** MEMBER SEP# POLE# 7161-REMARKS TYPE OF FAULT-Check one of the following 4: Dist. Xfmer 5: Secondary/ 6: Consumer N 1: Transmission |2: Substation 3: Primary Line Service Equip. FAULT ISOLATED BY-Check one of the following 2: Substation Fuse 3: Substation Breaker 4: Primary Line Fuse 5: Primary Line Recloser 1: Transmission Equip. Q 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 1: Weather 2: NOT Weather WEATHER P Related Related / 5: Freezing 6: OTHER 2: High Wind/ 3: Rain/Flood 4: Ice/Snow 1: Lightning WEATHER Lòading Q Tornado Temps CAUSE 6: Line Test & 7: OTHER 1: Transformer 2: Pole 3: Line 4: Substation 5: Line Equip. PLANNED FOR Replacement Replacement Conversions Maintenance Maintenance Metering R 1: Trees/ Natural 2: Vines 3: OTHER VEGETATION S Causes 4: Other Wildlife 5: OTHER 1: Cattle 2: Birds 3: Horses CAUSED BY Т Squirrels ANIMALS .. Deteriorated 4: Equipment 1: Equip. Fr" 3: Insulation U EQUIPMENT Installation Broke Overload 1: Trees Cut 2; Cars/ 3: Antenna in 4: Sabotage Augen PUBLIC ν into Line Tractors Line 4:Faulting Line 5: OTHER 2: Operating 3: Operating 1: Faulty Inter-Co Error ICE Ŵ Construction Error ICE Design PRACTICES Employee Contractor 1: Unknown X UNKNOWN EQUIPMENT FAILURE-check one in each line "there applicable 7: Sectionalizer 8: Insulator J: Line Clamps 4: Pole 5: Transformer 6: Recloser 1: Substation 2: Conduct Equip. TYPE EQUIP Y 6: Weather 7:1 005e **B: Insufficient** 5: Overload 1: Faulty Equip. 2: Deprecation 3: Faulty 4: Damage ' V CAUSE OF Connection Maintenance Design Installation Others Z FAILURE OFFICE DATA District **Circuit Name** Line Section # where Line De-Substation Name: 2 Energized LANCASTER Consumer Hours **Duration Outage Minutes** KVA-Interrupted # Consumers Interrupted 00 GRAIN Bluegross ag Consumer made contact with ALR 188. (Accident Scene). DrIMAU AT whase UGER REMARKS C. Lewis See

C:\Documents and Settings\farrah\My Documents\OUTAGE FORM 2010.xis



A Touchstone Energy Cooperative

May 11, 2011

MAY 13 2011 PUBLIC SERVICE COMMISSION

RECEIVED

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 deenergized, 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

At 10.75 out from a point 414' above ground at the non-loading edge of the grain bin from the original, the clearance envelope is conductor was measured at 28'10.5" 4 3 " Assumines 6' radius Thus, our primary was 7'112" Dertically Partrusive to the Approximate dalues used 36'10" high. Our primary havizontally entrusion to the non-loading side of Grain Bin clearance envelope and 1.5 61 clearance envelope Non loading side clearance ち envelope 18.5 →K-H'3''-4,25 26-H3"-Primary Conductor 28° 102" イニゲ in 10.751 10'9" Ś -,,,,,,,,,-` `00 300 $\overline{\infty}$ Grair ς Φ Alfachment # 1

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Attachment # 4

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Attachment #5

Inspection Schedale for this line section. Last inspected in 2010 - due for inspection again in 2012.

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Note: Grids with designation 1 or 0 will be inspected with the adjacent grid 2 or 9 respectfully.

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Attachment B Utility Photographs with Seven-Day Report


































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Attachment C Utility Photographs with Amendment



















Attachment D PSC Photographs















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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, conveyer, or elevator shall be not less than the values illustrated in <u>Fig 234-4b</u>.

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



V = HEIGHT OF HIGHEST FILLING OR PROBING PORT ON GRAIN BIN H = V + 5.5 m (18 ft)



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