

Memo

To: Docketing Division
From: Jill Henry, Rail Specialist, Rail Division
Cc: PUCO Legal Department
Date: 5/23/2019
Re: PUCO Case No. 16-523-RR-STP- In the Matter of a Request for Upgrades at Wheeling & Lake Erie Railway Grade Crossing on Main Street/CR 5 (DOT#472-918D) in Harrison County, Hopedale, Ohio and Hedge Avenue/TR 31 (DOT#472-914B) in Jefferson County, Creston, Ohio.

On March 3, 2016, Commission Staff (PUCO) and Wheeling & Lake Erie Railway Company (WE) entered into a stipulation agreement (attached) whereby upgraded warning devices would be installed at the following:

Street	DOT#	County	Project
Main Street/CR 5	472-918D	Harrison County	Lights and Gates
Hedge Avenue/TR 31	472-914B	Jefferson County	Lights and Gates

On April 14, 2016, the Commission issued a Finding and Order approving the project, requiring plans and estimates by July 14, 2016 and ordering project completion by April 14, 2017. Due to delays in design for this project, the Commission extended the deadline to October 13, 2017.

The crossing project has been completed and is in-service:

Street	DOT#	County	Date of Completion
Main Street/CR 5	472-918D	Harrison County	10/13/2017
Hedge Avenue/TR 31	472-914B	Jefferson County	10/13/2017

A copy of the final crossing inspection is attached. Accordingly, the above case may be closed.

**Public Utilities Commission of Ohio
Transportation Department
Inspection & Investigation Division**

Highway Grade Crossing Warning System Installation Detail 1

Railroad = Wheeling and lake Erie Railway Line = _____
Location = County Road 5 AAR# = 472918D M.P. = 108.8
City = Hopedale State = Oh County = Harrison
Construction Start Date = 8/24/2017

Visible Warning Devices Detail

NW Quad

# Flasher Mast	<u>1</u>	# Gate Mast	_____	# Cantilever	_____
# Crossbucks	_____	Gate Arm Length	<u>27</u>	Cantilever Length	_____
# 2-Way Lights	<u>1</u>	# 1-Way lights	_____	# Bells	<u>1</u>
2-Way Lights Size	<u>12</u>	1-Way Lights Size	_____	# Multiple Track Signs	_____

SE Quad

# Flasher Mast	<u>1</u>	# Gate Mast	_____	# Cantilever	_____
# Crossbucks	<u>1</u>	Gate Arm Length	<u>19</u>	Cantilever Length	_____
# 2-Way Lights	<u>1</u>	# 1-Way lights	_____	# Bells	_____
2-Way Lights Size	<u>12</u>	1-Way Lights Size	_____	# Multiple Track Signs	_____

_____ Quad

# Flasher Mast	_____	# Gate Mast	_____	# Cantilever	_____
# Crossbucks	_____	Gate Arm Length	_____	Cantilever Length	_____
# 2-Way Lights	_____	# 1-Way lights	_____	# Bells	_____
2-Way Lights Size	_____	1-Way Lights Size	_____	# Multiple Track Signs	_____

_____ Quad

# Flasher Mast	_____	# Gate Mast	_____	# Cantilever	_____
# Crossbucks	_____	Gate Arm Length	_____	Cantilever Length	_____
# 2-Way Lights	_____	# 1-Way lights	_____	# Bells	_____
2-Way Lights Size	_____	1-Way Lights Size	_____	# Multiple Track Signs	_____

**Public Utilities Commission of Ohio
Transportation Department
Inspection & Investigation Division**

Highway Grade Crossing Warning System Installation Detail 2

Railroad = Wheeling and lake Erie Railway Line = 0
Location = County Road 5 AAR# = 472918D M.P. = 108.8
City = Hopedale State = Oh County = Harrison
Construction Start Date = 8/24/2017

Underground Cable & Conduit Detail

Footage of 5c/#6 to: Signal 1 180 Signal 2 260 Signal 3 Signal 4
Footage of 7c/#14 to: Signal 1 180 Signal 2 260 Signal 3 Signal 4
Footage of 2c/#6 to: Track 1 550 Track 2 550 Track 3 Track 4
Footage of 7c/#14 to: Location 1 Location 2 Location 3 Location 4
Footage of 3c/#9 to: Power 1 55 Power 2 Power 3 Power 4
4" Conduit under Road = 60 Under tracks = 60 Under Other =

Control Equipment Detail

of Instrument Cases or Bungalows = 1 # of Battery Boxes. 0
of GCP Units = 1 Manufacturer = Alstrom Model # = XP4
of PMD Units = Manufacturer = Model # =
of "C" Inverters = Manufacturer = Model # =
GCP Frequency. Unit 1 452 Unit 2 Unit 3 Unit 4
PMD Frequency. Unit 1 Unit 2 Unit 3 Unit 4
Approach Length. Track 1 2000 Track 2 Track 3 Track 4
Island Length. Track 1 120 Track 2 Track 3 Track 4
MB12 Amp Hour = 420 XB12 Amp Hour = 250 MSB12 Amp Hour =

**Public Utilities Commission of Ohio
Transportation Department
Inspection & Investigation Division**

Highway Grade Crossing Warning System Installation Cut Over Test

Railroad = Wheeling and lake Erie Railway Line = 0
Location = County Road 5 AAR# = 472918D M.P. = 108.8
City = Hopedale State = Oh County = Harrison
Cut Over Test Date = 10/13/2017

Attendance Info

PUCO 1 Shawn Zurfley Railroad 1 Clarence Morgan
PUCO 2 _____ Railroad 2 _____
PUCO 3 _____ Railroad 3 _____

Inspection & Tests Made

Locks? yes Plans in case and correct? yes
Insulation Resistance Test made? yes Relay Test Made? yes
MB12 Volts = 12.89 XB12 Volts = 13.29 MSB12 Volts = _____
Grounds Test made? yes Case and Bases Tagged? yes
Lamp Volts AC = 11.09 Lamp Volts DC = 11.09
Lights Focused? yes Flash Rate = 54 FPM @ Light
Gate Arm and lights proper? yes Gate Arm Movement proper? yes
Bells Operate? yes Traffic Pre-emption operates properly? NA
MS / GCP Island Shunt with no time out? yes AC/DC Island Shunted? _____
MS / GCP Approach Shunt with time out? _____ AC/DC Approach Shunted? _____
Tested under train moves this date? NO Warning Time observed or set = 30

**Public Utilities Commission of Ohio
Transportation Department
Inspection & Investigation Division**

Highway Grade Crossing Warning System Installation Outline

Railroad = Wheeling and lake Erie Railway Line = 0
Location = County Road 5 AAR# = 472918D M.P. = 108.8
City = Hopedale State = Oh County = Harrison
Construction Start Date = 8/24/2017 Cut Over Test Date = 10/13/2017

Visible Warning Devices Outline

# Gate masts.	<u>0</u>	# Cantilever Masts.	<u>0</u>	# Flasher Masts.	<u>2</u>
# 2 - Way light units.	<u>2</u>	# 1 - Way Light units.	<u>0</u>		
# Crossbucks.	<u>1</u>	# Multiple Track Signs.	<u>0</u>	# Bells.	<u>1</u>

Underground Cable & Conduit Outline

<u>440</u> Ft. 5c/#6 Gate/Flasher Cable.	<u>440</u> Ft. 7c/#14 Control/Flasher Cable.
<u>1100</u> Ft. 2c/#6 Track Cable.	<u>0</u> Ft. 7c/#14 Express Cable.
<u>55</u> Ft. 3c/#9 Power Cable.	
<u>120</u> Ft. 4" Conduit.	

Control Equipment Outline

# of Instrument Cases or Bungalows = <u>1</u>	# of Battery Boxes = <u>0</u>
# of GCP Units = <u>1</u> Manufacturer = <u>Alstrom</u>	Model # = <u>XP4</u>
# of PMD Units = <u>0</u> Manufacturer = <u>0</u>	Model # = <u>0</u>
# of "C" Inverters = <u>0</u> Manufacturer = <u>0</u>	Model # = <u>0</u>

GCP Frequency.	Unit 1	<u>452</u>	Unit 2	<u>0</u>	Unit 3	<u>0</u>	Unit 4	<u>0</u>
PMD Frequency.	Unit 1	<u>0</u>	Unit 2	<u>0</u>	Unit 3	<u>0</u>	Unit 4	<u>0</u>
Approach Length.	Track 1	<u>2000</u>	Track 2	<u>0</u>	Track 3	<u>0</u>	Track 4	<u>0</u>
Island Length.	Track 1	<u>120</u>	Track 2	<u>0</u>	Track 3	<u>0</u>	Track 4	<u>0</u>

B12 Amp Hour = 420 GB12 Amp Hour = 250 MSB12 Amp Hour = 0

The above described apparatus was observed to be installed in accordance with State, Federal, and MUTCD standards and regulations. (Except those defects, if any, noted on FRA Report)

The above described location was observed to operate as designed in accordance with FRA standards and regulations. (Except those defects, if any, noted on FRA Report)

Name Shawn A. Zurfley

Title PUCO/FRA Inspector
Date January 17, 2018

Public Utilities Commission of Ohio
Transportation Department
Inspection & Investigation Division

Highway Grade Crossing Warning System Installation Detail 1

Railroad = Wheeling and Lake Erie Railway Line = _____
Location = Hedge Ave. AAR# = 472914B M.P. = 106.05
City = Hopedale State = OH County = Jefferson
Construction Start Date = 8/24/2017

Visible Warning Devices Detail

NW Quad

# Flasher Mast	<u>1</u>	# Gate Mast	_____	# Cantilever	_____
# Crossbucks	<u>1</u>	Gate Arm Length	<u>20</u>	Cantilever Length	_____
# 2-Way Lights	<u>1</u>	# 1-Way lights	_____	# Bells	_____
2-Way Lights Size	<u>12</u>	1-Way Lights Size	_____	# Multiple Track Signs	_____

SE Quad

# Flasher Mast	<u>1</u>	# Gate Mast	_____	# Cantilever	_____
# Crossbucks	<u>1</u>	Gate Arm Length	<u>25</u>	Cantilever Length	_____
# 2-Way Lights	<u>1</u>	# 1-Way lights	_____	# Bells	<u>1</u>
2-Way Lights Size	<u>12</u>	1-Way Lights Size	_____	# Multiple Track Signs	_____

_____ Quad

# Flasher Mast	_____	# Gate Mast	_____	# Cantilever	_____
# Crossbucks	_____	Gate Arm Length	_____	Cantilever Length	_____
# 2-Way Lights	_____	# 1-Way lights	_____	# Bells	_____
2-Way Lights Size	_____	1-Way Lights Size	_____	# Multiple Track Signs	_____

_____ Quad

# Flasher Mast	_____	# Gate Mast	_____	# Cantilever	_____
# Crossbucks	_____	Gate Arm Length	_____	Cantilever Length	_____
# 2-Way Lights	_____	# 1-Way lights	_____	# Bells	_____
2-Way Lights Size	_____	1-Way Lights Size	_____	# Multiple Track Signs	_____

**Public Utilities Commission of Ohio
Transportation Department
Inspection & Investigation Division**

Highway Grade Crossing Warning System Installation Detail 2

Railroad = Wheeling and Lake Erie Railway Line = 0
Location = Hedge Ave. AAR# = 472914B M.P. = 106.05
City = Hopedale State = OH County = Jefferson
Construction Start Date = 8/24/2017

Underground Cable & Conduit Detail

Footage of 5c/#6 to: Signal 1 150 Signal 2 80 Signal 3 Signal 4
Footage of 7c/#14 to: Signal 1 150 Signal 2 80 Signal 3 Signal 4
Footage of 2c/#6 to: Track 1 260 Track 2 Track 3 Track 4
Footage of 7c/#14 to: Location 1 Location 2 Location 3 Location 4
Footage of 3c/#9 to: Power 1 50 Power 2 Power 3 Power 4
4" Conduit under Road = 40 Under tracks = 20 Under Other =

Control Equipment Detail

of Instrument Cases or Bungalows = 1 # of Battery Boxes. 0
of GCP Units = 1 Manufacturer = Harmon Model # = HXP3
of PMD Units = Manufacturer = Model # =
of "C" Inverters = Manufacturer = Model # =
GCP Frequency. Unit 1 Unit 2 Unit 3 Unit 4
PMD Frequency. Unit 1 Unit 2 Unit 3 Unit 4
Approach Length. Track 1 2000 Track 2 Track 3 Track 4
Island Length. Track 1 120 Track 2 Track 3 Track 4
B12 Amp Hour = XB12 Amp Hour = MSB12 Amp Hour =

**Public Utilities Commission of Ohio
Transportation Department
Inspection & Investigation Division**

Highway Grade Crossing Warning System Installation Cut Over Test

Railroad = Wheeling and Lake Erie Railway Line = 0
Location = Hedge Ave. AAR# = 472914B M.P. = 106.05
City = Hopedale State = OH County = Jefferson
Cut Over Test Date = 10/13/2017

Attendance Info

PUCO 1 Shawn Zurfley Railroad 1 Clarence Morgan
PUCO 2 _____ Railroad 2 _____
PUCO 3 _____ Railroad 3 _____

Inspection & Tests Made

Locks? yes Plans in case and correct? NO
Insulation Resistance Test made? yes Relay Test Made? yes
B12 Volts = 12.78 XB12 Volts = 12.36 MSB12 Volts = _____
Grounds Test made? yes Case and Bases Tagged? yes
Lamp Volts AC = 10.56 Lamp Volts DC = 10.56
Lights Focused? yes Flash Rate = yes FPM @ Light
Gate Arm and lights proper? yes Gate Arm Movement proper? yes
Bells Operate? yes Traffic Pre-emption operates properly? NA
MS / GCP Island Shunt with no time out? yes AC/DC Island Shunted? _____
MS / GCP Approach Shunt with time out? _____ AC/DC Approach Shunted? _____
Tested under train moves this date? NO Warning Time observed or set = 30

**Public Utilities Commission of Ohio
Transportation Department
Inspection & Investigation Division**

Highway Grade Crossing Warning System Installation Outline

Railroad = Wheeling and Lake Erie Railway Line = 0
Location = Hedge Ave. AAR# = 472914B M.P. = 106.05
City = Hopedale State = OH County = Jefferson
Construction Start Date = 8/24/2017 Cut Over Test Date = 10/13/2017

Visible Warning Devices Outline

# Gate masts.	<u>0</u>	# Cantilever Masts.	<u>0</u>	# Flasher Masts.	<u>2</u>
# 2 - Way light units.	<u>2</u>	# 1 - Way Light units.	<u>0</u>		
# Crossbucks.	<u>2</u>	# Multiple Track Signs.	<u>0</u>	# Bells.	<u>1</u>

Underground Cable & Conduit Outline

<u>230</u>	Ft. 5c/#6 Gate/Flasher Cable.	<u>230</u>	Ft. 7c/#14 Control/Flasher Cable.
<u>260</u>	Ft. 2c/#6 Track Cable.	<u>0</u>	Ft. 7c/#14 Express Cable.
<u>50</u>	Ft. 3c/#9 Power Cable.		
<u>60</u>	Ft. 4" Conduit.		

Control Equipment Outline

# of Instrument Cases or Bungalows =	<u>1</u>	# of Battery Boxes =	<u>0</u>
# of GCP Units =	<u>1</u>	Manufacturer =	<u>Harmon</u>
# of PMD Units =	<u>0</u>	Model # =	<u>HXP3</u>
# of "C" Inverters =	<u>0</u>	Manufacturer =	<u>0</u>
		Model # =	<u>0</u>

GCP Frequency.	Unit 1	<u>0</u>	Unit 2	<u>0</u>	Unit 3	<u>0</u>	Unit 4	<u>0</u>
PMD Frequency.	Unit 1	<u>0</u>	Unit 2	<u>0</u>	Unit 3	<u>0</u>	Unit 4	<u>0</u>
Approach Length.	Track 1	<u>2000</u>	Track 2	<u>0</u>	Track 3	<u>0</u>	Track 4	<u>0</u>
Island Length.	Track 1	<u>120</u>	Track 2	<u>0</u>	Track 3	<u>0</u>	Track 4	<u>0</u>

B12 Amp Hour = 0 GB12 Amp Hour = 0 MSB12 Amp Hour = 0

The above described apparatus was observed to be installed in accordance with State, Federal, and MUTCD standards and regulations. (Except those defects, if any, noted on FRA Report)

The above described location was observed to operate as designed in accordance with FRA standards and regulations. (Except those defects, if any noted on FRA Report)

Name Shawn A. Zurfley

Title PUCO/FRA Inspector
Date January 17, 2018

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in

Case No(s). 16-0523-RR-STP

Summary: Memo Closing Case In the Matter of a Request for Upgrades at Wheeling & Lake Erie Railway Grade Crossing on Main Street/CR 5 (DOT#472-918D) in Harrison County, Hopedale, Ohio and Hedge Avenue/TR 31 (DOT#472-914B) in Jefferson County, Creston, Ohio. electronically filed by Mrs. Jill A Henry on behalf of PUCO/Rail Division