



Public Utilities Commission of Ohio

Memo

To:

Docketing Division

From

_ Jill Henry, Rail Specialist, Rai∖ D¦vj≱jor

Cc:

PUCO Legal Department

Date:

9/15/11

Re: PUCO Case No. 10-204-RR-STP- In the matter of a request for CSX Transportation, Inc. to install active grade crossing warning devices in Butler County, Oxford Township at Taylor Rd.(DOT#154-092R) and Ringwood Rd. (DOT#154-089H).

On January 21, 2010, Commission Staff, The Ohio Rail Development Commission (ORDC), CSX Transportation, Inc.(CSX), and Oxford Township, Butler County, Ohio entered into an agreement whereby active grade crossing warning devices would be installed in Butler County, Oxford Township at Taylor Rd. (DOT#154-092R).

On February 12, 2010, The Ohio Rail Development Commission authorized funding for the project.

On March 3, 2010, the Commission issued a Finding and Order approving the project and requiring the submission of plans and estimates by June 3, 2010.

On June 2, 2010, CSX filed with the Rail Division plans and estimates for the project.

Due to some design concerns raised by PUCO Staff, considerable discussion between the Federal Railroad Administration, the PUCO, and CSX took place over six months. PUCO Staff and CSX came to a decision that resolved the Staff's design issues.

On December 9, 2010, the plans and estimates were authorized for the Taylor project by the PUCO and ORDC based a stipulation outlined in the construction authorization which stated: Construction authorization should be granted for this project with the stipulation that the island length must be extended to include the de-rail controller.

On April 7, 2011, an on site inspection was conducted by the PUCO. It was discovered that the actual island length was only 100' and was not extended to include the de-rail controller as stipulated in the construction authorization (see attached field inspection report).

Staff contacted CSX about the issues and CSX returned to the project site and made corrections to the project in May 2011. On August 30, 2011, an on site inspection was conducted by the PUCO. The crossing was determined to be in service and working to the requirements of the construction authorization (see attached field inspection report). Accordingly, the above case may be closed.

This is to certify that the images appearing are an accurate and complete reproduction of a case file document delivered in the regular course of business.

We chnician Date Processed SFP 1 5 2011

Highway Grade Crossing Warning System Installation Detail 1

Railroad =	CSX Transp	ortation		Line = Indianapolis			
Location =	Taylor R	oad	AAR#=	154092R	M.P. = <u>43.2</u>	!7	
City =	College Corner	State = _	Ohio	_ County =	Butler		
Construc	tion Start Date =	1/28/2011					
NORT O	1	Visible Warning	Devices	<u>Detail</u>			
NW Quad	<u>1</u>						
# Flasher	Mast	# Gate Mast _	1	# Cantilever	 		
# Crossl	bucks1	Gate Arm Length_	14'	_ Cantilever Length			
# 2-Way L	ights1_	# 1-Way lights _		_ # Bells	1		
2-Way Lights	S Size	1-Way Lights Size _		_# Multiple Track Signs			
SE Quad	<u>i</u>						
# Flasher	Mast	# Gate Mast _	1	# Cantilever			
# Cross	bucks	Gate Arm Length_	15'	Cantilever Length			
# 2-Way L	ights1	# 1-Way lights _		_ # Bells			
2-Way Lights	s Size <u>12"</u>	1-Way Lights Size_		_# Multiple Track Signs			
Quad	<u>i</u>						
# Flasher	Mast	# Gate Mast _		_ # Cantilever			
# Crossl	bucks	Gate Arm Length_		_ Cantilever Length			
# 2-Way L	ights	# 1-Way lights _		# Bells			
2-Way Lights	s Size	1-Way Lights Size_		_# Multiple Track Signs			
Quad	<u>1</u>						
# Flasher	Mast	# Gate Mast _		_ # Cantilever			
# Crossl	oucks	Gate Arm Length _		_ Cantilever Length			
	ights	# 1-Way lights _			****		
	s Size	1-Way Lights Size _		_# Multiple Track Signs			

Highway Grade Crossing Warning System Installation Detail 2

Railroad =	CSX Transpor	tation			Line = _	İr	ndianapolis	
Location =		AAR#=	1540	92R	M.P. =	43.27		
City =	College Corner	State = _	Ohio	County =		But	ler	
Construction	Start Date =	1/28/	2011					
	<u>u</u>	ndergi	ound Cable	& Condu	<u>it Detail</u>			
Footage of 19 Comp t	o Signal 11	110	Signal 2_	150	Signal 3_		Signal 4_	
Footage of 7c/#14 to	Signal 1		Signal 2_		Signal 3		Signal 4_	
Footage of 2c/#6 to:	Track 12	255	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 11	180	Power 2_		Power 3		Power 4_	
4" Conduit u	nder Road =	40	Unde	er tracks =	20	Und	ler Other = _	
		Co	ontrol Equip	ment Det	<u>ail</u>			
# of Instrumen	t Cases or Bunga	lows =	1		# of Batter	y Boxes.	····	
# of GCP Units	=1	Man	ufacturer = _	Safetran		Model # =	4000	
# of PMD Units	=	Man	ufacturer = _		-	Model # =		
# of "C" Inverters	=	Man	ufacturer = _			Model # =		
GCP Frequency.	Unit 12	211	Unit 2_		Unit 3		Unit 4_	
PMD Frequency.	Unit 1		Unit 2_		Unit 3		Unit 4	
Approach Length.	Track 13	080'	Track 2_		Track 3		Track 4_	
Island Length.	Track 12	13'	Track 2_		Track 3		Track 4_	
XB12 Amp Hour	=165(OB12 A	.mp Hour = _	165	BGB12 A	mp Hour = _	165	

Highway Grade Crossing Warning System Installation Cut Over Test

Railroad =	CSX	Transportation			Line =	Indianapoli	s
Location =		aylor Road		AAR# =	154092R	M.P. =	43.27
City =	College	Corner	State =	Ohio	Cour	nty = Bu	tler
	Cut Over Test D	ate =2/9/20)11				
			<u>Attende</u>	nce Info			
PUCO 1	Shawn	Zurfley		Railroad 1_	Darren	Urfer	-
PUCO 2	Jill H	enry		Railroad 2	Carl Kr	euzer	
PUCO 3	Steve I	lorner		Railroad 3			
		<u>Ins</u>	pection &	Tests Made			
Locks?	Yes	Plans	in case ar	nd correct?	Yes		
	Insulation Resista	nce Test made? _	Yes		Relay Test Ma	ade? NA	-
XE	312 Volts = 13.6	VDC	OE	312 Volts =	12VDC	BGB12 Volts =	16.3VDC
Grounds T	est made? Ye) s	Cas	e and Bases	Tagged? Ye	<u>s</u>	
Lamp	Volts AC =10v	DC	Lamp	Volts DC = _	10VDC		
Lights	Focused? Y	<u> </u>	FI	ash Rate =	55 FPM (@ Light	
Gate /	Arm and lights pro	pper?Yes		Gate Arn	n Movement pro	per? <u>Yes</u>	-
Bell	s Operate?Y	<u>es</u>	Traffi	c Pre-emptio	n operates prope	erly? NA	
MS/G	CP Island Shunt	with no time out?	Yes		AC/DC I	sland Shunted?	
MS / G	CP Approach Shu	nt with time out?_	Yes		AC/DC App	roach Shunted?	
Te	ested under train i	noves this date?	No	,	Warning Time ol	oserved or set =	35 SEC

Highway Grade Crossing Warning System Installation Outline

	_			. <u></u>					
Railroad =	road = CSX Transportation					Line = Indianapolis			
Location =	n = <u>Taylor Road</u>				AAR# =	1540	192R	M.P. =	43.27
City =	City = College Corner State =			Ohio	County = Butler			er	
Construction Start Date =1/28/2011				Cut Over Test Date = 2/9/2011			011		
			Visib	le Warning l	Devices O	utline			
# Gate	_				ver Masts.		# Flash	ner Masts	0
# 2 - Way ligh # Cross				# 1 - Way I # Multiple Tra	-			# Bells	1
			<u>Undergr</u>	ound Cable	& Condui	t Outline			
					E. =				
		e/Flasher C ck Cable.	able.			Control/Flas Express Ca			
		ver Cable.			Ft. 76/#141	express ca	DI C .		
	l" Condui								
1	Condu	ι.							
			<u>Cc</u>	ontrol Equip	ment Outl	ine			
# of Instr	ument Ca	ases or Bur	ngalows =	1		# of Batter	ry Boxes =	0	
# of GCP l	Units =	1	Mar	ufacturer =	Safetran		Model # =	4000	
# of PMD (Mar	nufacturer =	0	•	Model # = -	0	
# of "C" Inve	rters =	0	Mar	nufacturer = -	0	•	Model#=	0	
				-		•	_		
GCP Freque	ncy.	Unit 1	211	Unit 2	0	Unit 3	0	Unit 4	0
PMD Freque	ncy.	Unit 1	0	Unit 2	0	Unit 3	0	Unit 4	0
Approach Ler	ngth.	Track 1	3080'	Track 2	0	Track 3	0	Track 4	0
Island Leng	th.	Track 1	213'	Track 2	0	Track 3	0	Track 4	0
B12 Amp I	Hour = _	165	GB12 A	Amp Hour = _	165	MSB12 A	mp Hour = _	165	
Notes : The actual island length in the field is 100'. The project plans stipulated a 120' island. The PUCO Construction authorization stipulated that the island length should be lengthened to include the de-rail controller. Field testing on April 7, 2011, revealed that the island length as constructed does not meet the construction authorization requirements from the PUCO. The crossing does not address the de-rail situation or prevent short warning or activation failures from occurring.									
						Name	Shawn A.	Zurfley	

PUCO/FRA Inspector

April 11, 2011

Title

Date

PUBLIC UTILITIES COMMISSION OF OHIO TRANSPORTATION DEPARTMENT RAIL DIVISION

Date of Inspection: August 30, 2011

Case # 10-204-RR-STP – Final audit and inspection, Taylor Road, Butler County, CSX Transportation (CSX).

DOT #: 154-092R

FINDINGS

I conducted an inspection of the crossing on August 30, 2011. The inspection was performed to confirm the railroad had installed the island circuit at the switch derail as agreed upon by CSX Transportation and the Public Utilities Commission of Ohio (PUCO).

On the above noted day, I inspected the highway rail grade crossing train detection circuits that are affected by the derail and shunt box located on the west end of the crossing. During my inspection I had the CSX signal employee verify a .06 ohm shunt would drop the island circuit with the derail in the off position. I also had the signal employee verify a .06 ohm shunt would drop the east bound approach circuit with the derail in the off position. Both tests were completed and the crossing worked as designed and intended.

SUMMARY AND CONCLUSIONS

My inspection confirmed the highway rail grade crossing circuits affected by the derail and shunt box on the west end of the crossing worked as designed and intended.

RECOMMENDATIONS

In view of the foregoing findings and conclusion, I feel the railroad has met its obligation to redesign the island circuit as CSX transportation and the PUCO had agreed upon.

Shawn Zurfley PUCO/FRA Rail Inspector Date: September 7, 2011