Public Utilities Commission of Ohio

Memo

To:Docketing DivisionFrom:George Martin, Grade Crossing Planner, Rail DivisionRe:PUCO Case No. 12-2197-RR-RCPDate:August 22, 2012

Please docket the attached diagnostic survey in the above referenced case.

RECEIVED-DOCKETING DIV 2012 AUG 22 PH 1:30 PUCO

C: Legal Department

Parties of record

Page 1

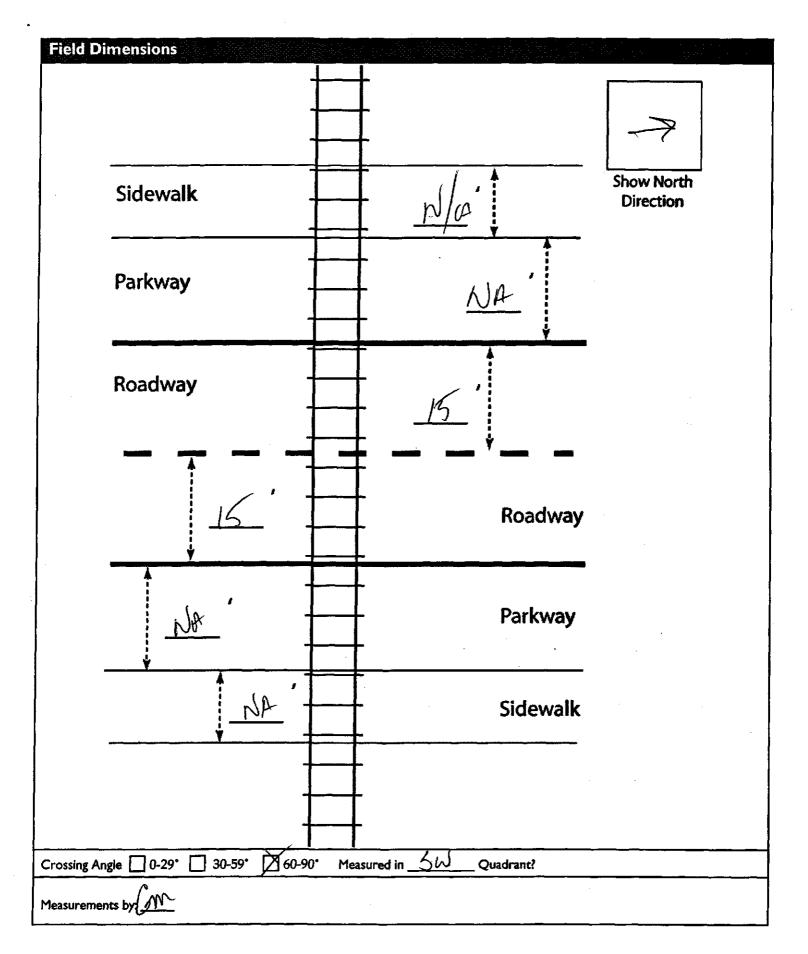
This is to certify that the images appearing are an accurate and complete reproduction of a case file document delivered in the regular course of business. Technician _____ Date Processe AUG 22 2012

STES COM		Public Utilities Commission of Ohio
The Public Utilities		Rail Division
Commission of Ohio		180 East Broad Street Columbus, OH 43215
Di	agnostic Review Tear	n Survey
12-2197-RR-RIP	6103001010010001000	
		Date: 8 21 12
Location Data		
Screet Or Road Name: MILL ST	NOW MUI	UNS ST.
Route/Road Number (i.e.	State or US route)	AAR-DOT COLOSO A
	City: (In	
County: COWMBIANA Township:	or Near	SALEM
Railroad A(Railroad PITT3BURGH	Branch/Line FT UAYNE
Name: N S	Division:	
Timetable Station: SALGM		RR Milepost: 69.85
On-Site Review Team		
(Include: Name – Organization – Phone Number)		
1. GEORGE MARTIN	PUCO 614-	752-9107
2. Letayne D. MELANey		-204-9041
3. Robert Reustle	POC 614-9	166-1150
MULE FORTE	CRDC 614.	374.9287
	TTO OF SALEM 3	
s. Jim Phillis C	ITY OF SALEM 3	30-853-8476
7.		
8		······
9		
10		
Existing Traffic Control Devices		
Type of Warning Devices	Jristalled?	Quantity/Comments
Advance Warning Signs	Yes No	2
Stop' Signs	Yes Yo	
Stop Ahead' Signs	Yes VNo	MARKINGS WILL
Pavement Markings	Yes VNo	JUST REPAVED-BE PUT DON
Crossbucks	VYes No	2 5000
Number of Tracks Signs		2
nventory Tags		2
nterconnected Highway Traffic Signal	YesNo YesNo	2
1ast-Mounted Flashing Lights	<u> </u>	Number: 2 Length: 16 - 18
ide Lights		
Automatic Gates	TesNo	Number: 2 Length:
Bells	VYes No	2
idewalk Gate Arms		
No Turn' Signs		
lumination		
s crossing flagged by train crew?	Yes YNo	
Other	Yes No	

Safety Data (Obtain crash repo	rts, if possible, prior to review)					
	Initial Information (from database)	Revised				
Number & dates of crashes in previous 5 years	0	1				
Hazard Ranking	318 Date Run: 8/15/12	1				
Railroad Data						
Railroad Characteristics	Initial Information (from database)	Revised				
Total trains per day	10	60				
< 1 per day	·····································					
Day thru trains	32					
Night thru trains	36					
Daytime switching movements	2					
Nighttime switching movements						
Total number of tracks	7	3				
Number of main tracks	3					
Number of other tracks	4,	11				
Maximum train speed	60	60				
Typical train speed	50	50				
Amtrak	YES	YES /				
If non-gated crossing, is clearing sight distance		I Yes I No N/A				
If multiple tracks, can two trains occupy cros	ssing at the same time? Yes 🔲 No	· · · · · · · · ·				
Can one train block the motorists' view of a	nother train at crossing? 🛃 Yes (Explain be	low) 🔲 No				
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· • • • • • • • • • • • • • • • • • • •				
If yes, Crossing DOT #(if different) If yes, distance (take meas Roadway Data	roadway within 100 ft of this crossing? TY					
If yes, Crossing DOT #(if different)	surement between track centerlines at closes 4 of SALEM	st point along roadway)				
If yes, Crossing DOT #(if different) If yes, distance (take meas Roadway Data Local Highway Authority:	surement between track centerlines at closes 4 OF SALEM Initial Information (from database)	st point along roadway) Revised				
If yes, Crossing DOT #(if different)	Surement between track centerlines at closes 4 OF SALEM Initial Information (from database) 2227 (2010)	st point along roadway) Revised				
If yes, Crossing DOT #(if different)	surement between track centerlines at closes Y OF SALEM Initial Information (from database)	st point along roadway) Revised				
If yes, Crossing DOT #(if different) If yes, distance If yes, distance (take mease Roadway Data Local Highway Authority: (Who maintains this roadway?) Cit Roadway Characteristics Average daily traffic	Surement between track centerlines at closes Y OF SALEM Initial Information (from database) 2227 (2010) EYes No	Revised				
If yes, Crossing DOT #(if different) If yes, distance If yes, distance (take mease Roadway Data Local Highway Authority: (Who maintains this roadway!) Cit Roadway Characteristics Average daily traffic Highway paved	Surement between track centerlines at closes Y OF SALEM Initial Information (from database) 2227 (2010) EYes No	st point along roadway) Revised				
If yes, Crossing DOT #(if different) If yes, distance If yes, distance (take mease Roadway Data Local Highway Authority: (Who maintains this roadway!) Cit Roadway Characteristics Average daily traffic Highway paved Roadway Surface:	Surement between track centerlines at closes Y OF SALEM Initial Information (from database) 2227 (2010) EYes No	st point along roadway) Revised				
If yes, Crossing DOT #(if different) If yes, distance (take mease Roadway Data Local Highway Authority: (Who maintains this roadway?) ('i') Roadway Characteristics Average daily traffic Highway paved Roadway Surface: Blacktop Gravel Roadway width: Coadway lanes	Surement between track centerlines at closes Y OF SALEM Initial Information (from database) 2227 (2010) EYes No	st point along roadway) Revised				
If yes, Crossing DOT #(if different) If yes, distance If yes, distance (take mease Roadway Data Local Highway Authority: (Who maintains this roadway?) C T Roadway Characteristics Average daily traffic Highway paved Roadway Surface: Blacktop Gravel Roadway width: Cofft. Number of highway lanes	Surement between track centerlines at closes 4 OF SALEM Initial Information (from database) 2227 (2010) Pres No Concrete Other	st point along roadway) Revised				
If yes, Crossing DOT #(if different) If yes, distance (take mease Roadway Data Local Highway Authority: (Who maintains this roadway?) (Uho maintains this roadway?) Roadway Characteristics Average daily traffic Highway paved Roadway Surface: Blacktop Gravel Roadway width: 30ft. Number of highway lanes Urban or Rural? Vehicle Speed: 2.2 MPH School Bus Operation:	Surement between track centerlines at closes Y OF SALEM Initial Information (from database) 2227 (2010) Pres No Concrete Other UGBAN	st point along roadway) Revised				
If yes, Crossing DOT #(if different) If yes, distance (take mease Roadway Data Local Highway Authority: (Who maintains this roadway?) (Uho maintains this roadway?) Roadway Characteristics Average daily traffic Highway paved Roadway Surface: Blacktop Gravel Roadway width: 30ft. Number of highway lanes Urban or Rural? Vehicle Speed: 2.5 MPH School Bus Operation:	Surement between track centerlines at closes Y OF SALEM Initial Information (from database) 2227 (2010) Pres No Concrete Other URBAN	st point along roadway) Revised				
If yes, Crossing DOT #(if different) If yes, distance (take mease Roadway Data Local Highway Authority: (Who maintains this roadway?) (Uho maintains this roadway?) Roadway Characteristics Average daily traffic Highway paved Roadway Surface: Blacktop Gravel Roadway width: 30ft. Number of highway lanes Urban or Rural? Vehicle Speed: 2.2 MPH School Bus Operation:	Surement between track centerlines at closes Y OF SALEM Initial Information (from database) 2227 (2010) Pres No Concrete Other UGBAN	st point along roadway) Revised				
If yes, Crossing DOT #(if different) If yes, distance (take mease Roadway Data Local Highway Authority: (Who maintains this roadway?) C T Roadway Characteristics Average daily traffic Highway paved Roadway Surface: Blacktop Gravel Roadway width: C) ft. Number of highway lanes Urban or Rural? Vehicle Speed: 2.5 MPH School Bus Operation: No Yes Is the shoulder surfaced? No Yes	Surement between track centerlines at closes Y OF SALEM Initial Information (from database) 2227 (2010) 2227 (2010) 2227 (2010) Pres No Concrete Other Q Other Q Other Amount Yes Yes Amount	st point along roadway) Revised				
If yes, Crossing DOT #(if different) If yes, distance (take mease Roadway Data Local Highway Authority: (Who maintains this roadway?) Cit Roadway Characteristics Average daily traffic Highway paved Roadway Surface: Blacktop Gravel Roadway width: Codway width:	Surement between track centerlines at closes Y OF SALEM Initial Information (from database) 2227 (2010) 2227 (2010) 2227 (2010) Pres No Concrete Other Q Other Q Other Amount Yes Yes Amount	st point along roadway) Revised				

Quadrant	Quadrant	
Curb and Gutter: 📋 Functional (Curb height = 4" or more)	Curb and Gutter: 📋 Functional (Curb height = 4" or more)	
Non-functional (Curb height = Less than 4")	Non-functional (Curb height = Less than 4")	
None	None	
Pedestrians: No XYes		
Is sidewalk present? 200 2 Yes		
Is there a nearby intersection that could cause queuing over the c	rossing? No Yes	
If yes, Distance		
Is this intersection signalized? 🔲 No 👘 Yes		
Are the signals currently interconnected with the existing crossing warning devices? No		
Is it the consensus of the Diagnostic Review Team that this is a potential closure project: No Yes		
Type of Development		
Open Space Institutional Location of nearby	/ schools:	
Industrial Commercial		
Utility Information		
Is commercial power available? No		
Utility Provider (Company Name) Phone Number		
Nearest Available Power Source		
What other utilities are present?	known	
Diagnostic Team Recommendations		
	Quadrants Needed	
Install/upgrade active devices	NEITHER CANTILEVER IS	
Automatic Flashing Lights (AFLS)	NEEDED / REGUIRED (RECOMMENDED	
AFLS /Cants	UNDER MUTCH.	
AFLS / Gates NS PGIT 00 JUD	DEVICES IN SW QUAD	
Departed Cants for 29 MovAL OF Upgrade circuitry CANT IN NW QUAN -		
	BE AUTCO COMPLIANT AND TO	
Guardrail Needed NE & UAD	ELIMINATE TRUCKS TURNING	
	BREWEEN THE DEVICES & THE	
Other (define)	TRACK (MAIN # 1)	
Comments:		
	DENICES IN THE NE NEED	
	18 3/2 RELOCATED - TOO CLOSE	
	TO SPDE TRACK.	
No improvements needed		
Other (define)		

.



REALIZED DEVICE + + + +	Field Sketch Wolfild	N
Crossing Angle 0-29° 30-59° 260-90° Measured in <u>50</u> Quadrant?	$\frac{60.9}{100001}$ $\frac{10000}{1000000000000000000000000000000$	

.

TABLE I

Table 2

Stopping Sight Distances

Clearing Sight Distances		
Maximum Authorized Train Speed	Distance (dT) Along Railroad from Crossing (ft)	
1 - 10	240	
15	360	
20	480	
25	600	
30	720	
35	840	
40	960	
45	1080	
50	1200	
55	1320	
60	1440	
65	1560	
70	1680	
75	1800	
80	1920	
85	2040	
90	2160	

Source: R-H Grade Crossing Handbook Table 36 (pp. 132-133)

Notes:

All calculated distances are rounded up to the next higher 5-foot increment.

Distances indicated are for 65-ft double bottom semi-tractor trailers and level single track 90 degree crossings; and may need to be adjusted for multiple tracks, skewed crossings or approaches on grades.

Clearing Sight Distance is to be measured in each vehicle travel direction at <u>non-gated crossings</u> as viewed from a point 25 feet from centerline of nearest track in the center of whichever travel lane is nearest the direction along track being measured.

Highway Vehicle Speed	Distance (dH) Along Roadway from Crossing (ft)
0	n/a
5	50
10	70
15	105
20	135
25	180
30	225
35	280
40	340
45	410
50	490
55	570
60	660
65	760
70	865

Source: R-H Grade Crossing Handbook Table 36 (pp. 132-133)

Notes:

All calculated distances are rounded up to the next higher 5-foot increment.

Distances indicated are for 65-ft double bottom semi-tractor trailers on dry level pavements.

Stopping Sight Distance is to be measured on each roadway approach to crossing from stop bar.