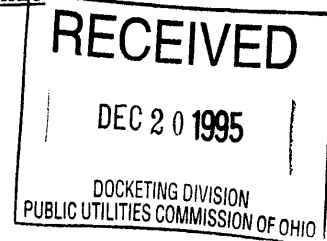


PUBLIC UTILITIES COMMISSION OF OHIO  
TRANSPORTATION DEPARTMENT  
RAILROAD SECTION

INTEROFFICE MEMORANDUM



To: Docketing Division  
From: Bonnie J. Johrendt, Grade Crossing Planner  
RE: PUCO CASE NO. 94-176-RR-STP - Installation of active warning  
devices at Chestnut Street (472-010H), City of Geneva, Ashtabula  
County

Date: December 20, 1995

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Please docket the attached final inspection report submitted for the subject crossing by PUCO/Inspector Don Rugh. As reported in Inspector Rugh's report, the installation of active warning devices have been installed in accordance with existing standards.

On the basis of this final report for the subject case number, an Entry may be prepared to Close this case.

c: Scott Farkas, Legal  
File

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 J. Watson Date Processed 1-24-96

PUBLIC UTILITIES COMMISSION OF OHIO  
TRANSPORTATION DEPARTMENT  
RAILROAD DIVISION

RECEIVED  
DEC 12 1995

DATE OF INSPECTION: DECEMBER 7, 1995

SUBJECT: PUCO CASE NO. 94-176-RR-STP DOT 472-010H

IN THE MATTER OF THE INSTALLATION OF ACTIVE WARNING DEVICES AT  
CHESTNUT ST., 472-010H, CITY OF GENEVA, ASHTABULA COUNTY, NOR-  
FOLK AND SOUTHERN RAILROAD.

FINDINGS

AUTOMATIC TRAIN ACTIVATED FLASHING LIGHTS AND GATES HAVE BEEN INSTALLED AT THE ABOVE LOCATION. AN ON-SITE INFORMAL INSPECTION WAS CONDUCTED AT CHESTNUT ST. ON DECEMBER 7, 1995. IN ATTENDANCE WERE STEVE NEILING, NS SIGNAL SUPERVISOR, DONALD SEALS, NS SIGNALMAN, AND DONALD RUGH, PUCO INSPECTOR.

THE CROSSING WARNING DEVICES CONSIST OF ALUMINUM MASTS, TO WHICH SINGLE FACED CROSSBUCKS, FLASHING RED LIGHTS AND SHORT-ARM GATES, MEASURING 16 FEET ON THE SOUTHEAST QUADRANT, AND 17 FEET ON THE NORTHWEST QUADRANT, ARE ATTACHED. THERE IS ALSO AN AUDIBLE BELL ATTACHED TO THE MAST ON THE NORTHWEST QUADRANT.

MASTS ARE LOCATED 8 FEET, 3 INCHES, FROM THE SIDE OF THE ROAD IN THE SOUTHEAST AND NORTHWEST QUADRANTS. THE DISTANCE FROM MAST TO NEAR RAIL IS 19 FEET IN THE SOUTHEAST QUADRANT, AND 16 FEET IN THE NORTHWEST QUADRANT.

ACTIVATION OF WARNING DEVICES IS CONTROLLED BY SAFETRAN MODEL 3000, WHEN TRACK IS SHUNTED BY A TRAIN. THIS IS A GRADE CROSSING PREDICTOR. MAINLINE APPROACH CIRCUITS ARE LOCATED 2853 FEET FROM THE CROSSING. THE INTERNAL LOW FREQUENCY ISLAND CIRCUIT EXTENDS 126 FEET FROM THE CENTER OF THE CROSSING ON BOTH SIDES OF THE CROSSING. THIS PROVIDES 16 SECONDS WARNING, INCLUDING 8 SECONDS FROM THE TIME THE LIGHTS START TO FLASH UNTIL THE GATE IS DOWN. THE MOTION DETECTOR ALLOWS DEACTIVATION OF THE DEVICES WHEN THE TRAIN STOPS ON THE APPROACH CIRCUIT AND THEN REACTIVATES THEM WHEN THE TRAIN STARTS TOWARD THE CROSSING.

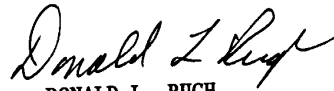
ELECTRICITY TO OPERATE THE DEVICES IS PROVIDED VIA COMMERCIAL POWER, WITH A BATTERY POWERED BACK-UP SYSTEM, WHICH ACTIVATES AUTOMATICALLY IN THE EVENT OF A POWER FAILURE AND WOULD PROVIDE 240 AMP HOURS RATING CAPACITY, BASED ON CURRENT LOAD REQUIREMENT. THE CIRCUIT BOARDS HAVE FAULT MEMORY INDICATORS, WHICH WOULD TELL OF ANY INTERMITTENT PROBLEMS OR FAILURES BETWEEN WEEKLY INSPECTIONS.

DONALD SEALS, NS SIGNALMAN, ACTIVATED THE SYSTEM MANUALLY, AND IT WAS NOTED THAT THE BELL, LIGHTS, AND GATES ACTIVATED AND DEACTIVATED IN ACCORDANCE WITH ACCEPTED STANDARDS.

EXTRANEIOUS MATERIALS HAVE BEEN REMOVED AND ALL GROUND SURFACES AFFECTED BY THE INSTALLATION HAVE BEEN LEVELED.

CONCLUSIONS AND RECOMMENDATIONS

THE WARNING DEVICES HAVE BEEN ERECTED IN ACCORDANCE WITH ESTABLISHED STANDARDS, THEREBY PROVIDING THE MAXIMUM IN GRADE CROSSING PROTECTION FOR THE TRAVELING PUBLIC.

A handwritten signature in cursive script, reading "Donald L. Rugh".

DONALD L. RUGH  
RAILROAD INSPECTOR  
DECEMBER 7, 1995

## Crossing Audit Inspection Report

Subject: PUCO Case No. 94-176-RR-STP In the matter of installation of Active Warning Devices at Chestnut St. (472-010H), City of Geneva, Ashtabula County; Norfolk and Southern Railroad.

Masts: Southeast Quadrant: Distance from Road: 8 feet 3 inches.  
Distance from track 18 feet 6 inches.  
Northwest Quadrant: Distance from Road: 8 feet 3 inches:  
Distance from Track: 16 feet 6 inches:  
Gate Arms: 16 feet on Southeast Quad and 17 feet on Northwest Quad.

Crossbucks: Single-faced

Audible Bell: Located on Northwest Mast: Single Track Railroad:

Flashers: Type Safetran No. S 20

Case Location: Northeast Quad 19 feet 6 inches from track 47 feet 1 inch from road.

Crossing Width : 31 Feet: Road Width: 23 feet:

Lighting: Overhead: Stop Signs : NO:

Model: Safetran 3000:

Charging System: National Railway Supply Co. ERB/C 13/20: With 13 Batteries:

Approach Circuits are 2853 feet Island Circuits are 123 feet:

Timing: Activation until gates are down is 16 seconds:  
Total warning time is 35 seconds:  
Time of activation: 1315 Hours:

Attendance: Steve Neiling, NS Construction Supervisor  
Donald Seals, NS Signalman:  
Donald Rugh, PUCO Inspector