INTERSTATE COMMERCE COMMISSION WASHINGTON

REPORT NO. 3626

WESTERN MARYLAND RAILWAY COMPANY

IN RE ACCIDENT

NEAR PINESBURG, MD., ON

APRIL 25, 1955

SUMMARY

Date:

April 25, 1955

Railroad:

Western Maryland

Location:

Pinesburg, Md.

Kind of accident:

Rear-end collision

Trains involved:

Freight

: Freight

Train numbers:

Extra 239 East

: B.& O. Extra

948 East

Engine numbers:

Diesel-electric

: Diesel-electric units 948 and

units 239A and

59A

182X

Consists:

54 cars, caboose

: 76 cars, caboose

Speeds:

Standing

: 20 m. p. h.

Operation:

Train movements with current of traffic by signal indications; movements against current of traffic by train

orders

Tracks:

Double; 3° curve; 0.586 percent

descending grade eastward

Weather:

Raining

Time:

1:02 a. m.

Casualties:

3 injured

Cause:

Failure to provide adequate protection

for preceding train

Recommendation:

That the Western Maryland Railway Company install an adequate block system for movements against the current of traffic in the territory in which this accident

cocurred.

Interstate commerce commission

REPORT NO. 3625

IN THE MATTER OF MAKING ACCIDENT INVESTIGATION REPORTS UNDER THE ACCIDENT REPORTS ACT OF MAY 6, 1910.

WESTERN MARYLAND RAILWAY COMPANY

May 27, 1955

145

Accident near Pinesburg, Md., on April 25, 1955, caused by failure to provide adequate protection for the preceding train.

REPORT OF THE COMMISSION

CLARKE, Commissioner:

On April 25, 1955, there was a rear-end collision between two freight trains on the Western Maryland Railway near Pinesburg, Md., which resulted in the injury of three employees.

Under authority of section 17 (2) of the Interstate Commerce Act the above-entitled proceeding was referred by the Commission to Commissioner Clarke for consideration and disposition.

Location of Accident and Method of Operation

This accident occurred on that part of the Fagerstorn Pivision extending between Curberland and Magarstown, Md., 79.0 miles. In the vicinity of the point of accident this is a double-trees line, over which trains moving with the current of traffic are operated by signal indications. Trains moving against the current of traffic are operated by train orders. At Big Pool Jet., So. 6 siles east of Cumberland, this line forms a junction with a single-track line which extends westward 2.1 miles to a connection with a line of the Saltimore and Ohio Railroad at Miller, W. Va. Trains of the Baltimore and Ohio Railroad regularly are operated over that nortion of the Western Meryland Rellwir extending between Miller and Hagerstown, wie Big Pool Jos-At Pinesburg, 70.5 miles east of Cumberland, a facing-point orpssover connects the two main tracks. The accident occurred on the westward main track at a point 70,9 miles east of Cumberland and 1,934 feet east of the west crossover-rwl of et Pinesburg. From the west on the vestwird track there are, in smocession, a tampent 1,600 feet in length, a 3° curve to the left 418 feet, a tangent SAL feet, a compound ourse to the left, having a meximum curvature of 6014, 971 feet, a tangent 377 feet and a 3° curve to the right 8 feet to the point of accident and 498 feet eastword, Illrovahout a distance of more than I mile immediately yest of the point of accident the grade for east-bound trains varies between 0.166 percent and 0.763 percent descending and averages 0.47 percent descending. At the point of ancident the grade is 0,586 percent descending eastward.

Between points sommertely 1,250 feet and 700 feet west of the preserver at Pinerburg the main tracks are laid in a out the wells of which rise to a height of about 10 feet above the level of the tracks. On the curve cast of Pinesburg the tracks are laid in a rock cut the test end of which is approximately 500 feet cast of the crossover. The north wall of this out rises to a height of approximately 60 feet above inc tracks, between this out and the point of arcident the tracks are laid in a side-hill out, and embrakments and outcroppings of rock mosely parallel the westward track on the north.

This carrier's operating rules read in part as follows:

35. The following signels will be used by flagment:

Night signalr -- A red light, Torpedoes and Tueess.

- 91. Unless some form of block system is used, trains in the seas direction must keep not less than five minutes apart, except in closing up at stations. * * *
- by. When a train stops under discumstances in which it may be presiden by another train, the flagman must so back immediately with flagman's signals a sufficient distance to insure full protection, pluoing two tempedoes, and when because, in addition, displaying lighted fusers. * *

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The maximum authorized speed for freight trains to 40 miles per hour, but it is rentricted to 30 miles per hour on the curve east of Pinesburg.

Description of Acoldert

Extra 259 Inst, an east-bound W. 4 froight train, consisted of Diese electric units ECA and 34A, coupled in multiple-unit control, 54 wars, and a deboase. At Big Pool Tot., 10.1 miles west of the point of accident and the last open office, memoers of the crew received, asong others, copies of train order No. 426 reading in part as follows:

EXTRA 1789 SABT AND B.A.O. EXTRA 948 EART HAVE RIGHT OVER OPPOSING TRAINS ON VESTWARD TRACK BIG POOL JUT. TO WILL MARPORT EAST END. and a restage contribing the information that Tairs 60 Path act Big Pool John at 11:47 p. m. William ort is 12.1 miles east of Big Pool Jot. This train and directed in the mentaged track and appried from Big Pool John at 11:68 p. m. It steposa believe Extra of Enst about 12 MC a. g., with the ment end at a point on the minute back income point on the minutes inter the trace and we struck by b.4 C. Three 948 Zast.

O. & C. Extra 846 East, an east-bound freight brain. consisted of Diurel-Stephylou Hite 348 and 1634, coulded in sultiple-unit control. 75 cers, and a release. This train was routed to the Mealers Maryland line at Miller at 18:36 a. a. At Pig Pool Job, couldes of train cafer No. 408 were delivered to memores of the craw and the urain tas of erued to the westward track. It feels ted from this point at 12:41 a. a., and while saving at a speed of 20 miles per hour it struck the rear and of Extra 250 Eas".

The cababae and the rook four rare of Extra 233 East were derailed are abopted in vertous ros close on or near the track. The deboose and the rear two sers were bedly denaged. The third are fourth year care were screwest deraged. The locomplive and the first two cars of R. J. O. Fatra 948 Daut were derailed. Coparations occurred between the Diesel-electrio whits and at mark and of the first our. The first Dieselcleatric unit stopped with the front end 17 feet east of the point of ociliaton, on the north side of the restward track and parallel in it. This wait was overturned to the left engined the embergment north of the track. The second Dieselelectric unit stopped on the sight side at an engle of about 40 degrees to the trees with the tront and elevated on the embenkment about 30 feet forto a" the track and the rear end scross the rails of the eastand brack. The derailed cars stopped in various positions on or near the track. The Diesclelectric units were baily dramm i. The first ran was somewhat camaged and the compad car was elightly decayed. Inflammable material in the arrokesa because issited and the subcose of Extre 240 East and the first obecol-electric unit of 9.8 C. Extre 346 East which were duringed by the collision seed further damaged by fare.

The engineer, the firemen and the first brakeans of P.& C. Extra 948 East ware injured.

It was raining at the time of the equident, which occurred about 1:03 a. a

The Diesel-electric mults of the locarotive of b.& O. Fatra 948 Fact were contained with 24-RL backs onclosert. A safety-central famous actuated by a foot padel was provided.

N. acterion

E.& O. Frirs 330 East, as east-lound fratght train conclisting of a j-unit Tiesel-electric icours iva. 130 cars, and a cabones, decarted flow Elg Fool Jot, on the eastward track at 10:23 p. a. April 24, 1360. Sensus, of the number of cars in the train it accordance with instructions previously issued to the crew it and stopped on the destward track cost of the highway crossing at Plunchur; about 13-A p. m., with the front and of the lamonative approximately 160 feet west of the accessore. Pollowing sust-nound fraight trains which it was intended vould pass it were operated satingt too current of traffic on the meatward track between Pig Fool Jot, and Williamsport and departed from the Fool Jot, as follows: E.a. C. Extre 240 East at 10:44 p. s., Extra 30 Fast at 11:47 p. s., Extre 250 East at 11:47 p. s. Extre 30 East at 11:47

When Extra 237 Fest etopied behind Fitted 60 Lest at Williamport about 2:20 s. v., the fingest was 'n the cabours and the other centers of the circ were of the loosablyc. The front end of the train was willed part limits at the rest end was at a point 7,3/2 funt west of the west interlight sign. The marker lamps at the rest of the west interlighted and displayed yallow to the rest of the side next to the sustant track and red to the rest on the side next to the sustant track and red to the rest on the side next to the sustant track and red to the rest on the side of the fixe. Irrediately after the train etopic the fixe according weather with

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flagmen's signals, in addition to his white light, and stopped in the vicinity of the east crossover-switch at Pinesburg, 1,543 feet west of the point at which the caboose stopped. He said that he placed one torpedo on the rail at this point but later removed it and proceeded between the tracks to the vicinity of the west crossoverswitch, 1,904 feet west of the rear end of his train. He thought this was sufficient distance to provide protection for his train but did not place torpedoes. When he observed the reflection of the headlight of an approaching train he lighted a red fusee and gave stop signals as the headlight came into view on the westward track approximately 800 feet west of the crossover. After his signals were acknowledged by the engineer he extinguished the fuses and proceeded to the north side of the westward track. He said he observed that the brakes on the cars of this train were not heavily applied as they passed the point where he was standing and he did not think that an emergency application was made before the collision occurred,

As B.& O. Extra 948 East was approaching the point where the accident occurred the enginemen and the front brakeman were maintaining a lookout ahead from the control compartment at the front of the locomotive. The conductor and the flagman were in the caboosc. The headlight was lighted brightly. The brakes of this train had been tested and had functioned properly when used en route. The dynamic brake was applied. The engineer sounded the against-current-of-traffic and the grade-crossing whistle signals as the train was approaching Pinesburg and was completing the final blast of the latter signal when he observed stop signals being given with a lighted red fuses in the vicinity of the crossover. The other members of the orew on the locomotive simultaneously called a warning. The engineer said that he immediately acknowledged the signals and the flagman extinguished the fusee. He said that he previously had made a brake-pipe reduction of 6 to 8 pounds In first-service position to reduce speed in compliance with the restriction on the curve east of Pinesburg and that he made an additional 6 to 8 pound brake-pipe reduction in service position in the vicinity of the west prossover-switch.

When the speed was not materially reduced before the locomotive passed the flagman he became concerned. He said that he moved the brake valve to emergency position at a point about 250 feet east of the crossover and then opened the sander valves, released the pedal of the safety-control feature and applied the independent brake. He thought the sanders previously had become obstructed because they had not functioned when the locomotive slipped on route. He said that the speed of the train was reduced to about 25 miles per hour before he left the central compartment. front brakeman said that the brakes were applied in emergenoy when the locomotive entered the cut approximately 500 feet east of the crossover. The fireman and the front brakesan left the control compartment and entered the engine compartment before the accident occurred. The engineer jumped off the locomotive approximately 200 feet west of the point of collision. The conductor and the flagman said that they were preparing to detach the caboose from the train at the time the brakes became applied in emergency. The conductor said that the emergency application was made about 18 to 20 seconds before the collision occurred.

Members of the crew on the locomotive of B.& O. Extra 950 East, which was stopped on the eastward track west of the highway crossing at Pinesburg, said that they observed the flagman of Extra 239 East remain in the vicinity of the crossover for a period of approximately 30 minutes. Immediately after the accident occurred the engineer and the front brakeman of this train proceeded to the north side of the westward track and found the unburned portion of a fusee at a point 5 or 6 feet west of the resume-speed sign, which is located 1,713 feet west of the point of accident. They said they were certain this was the fusee used by the flagman because it bore no indications of long exposure to the rain which had been falling intermittently for several hours and no other fusees had been thrown off from passing trains during the period their train had been standing in this vicinity.

After the accident occurred, the brakes of the rear 74 cars and the caboose of B.& O. Extra 948 East were tested. The brakes of two cars were found to be inoperative because of broken pipes. Brake-cylinder piston travel in excess of 9 inches was found on 15 other cars.

Examination of the tape of the speed-recording device of the locomotive of B.2 O. Extra 948 East indicates that this train was moving at a speed of 35 miles per hour when the brake application became effective and that the speed was reduced to about 20 miles per hour at the point of collision. In tests made under conditions of visibility similar to those which prevailed at the time of the accident, it was disclosed that because of track curvature and the walls of a cut the view of a flagman's night signals from the engineer's position in the control compartment of an east-bound locomotive approaching the crossover at Pinesburg on the westward track is restricted to a distance of about 800 feet. Under these circumstances it appears that the distance from which flagging signals were given in the instant case was not sufficient to provide full protection, as required by the rules.

The investigation disclosed that during the 30-day period proceding the day of the accident 17 trains were operated against the current of traffic in this territory. The book of operating rules of this carrier contains manual-block rules and these rules are in effect in adjacent single-track territory. With open train order offices located at convenient points and personnel already familiar with operation under these rules, the application of manual-tlock rules to cover movements against the current of traffic in this territory would provide immediate, additional protection. If an adaquate block system had been in use for such movements the following train would have received definite information that the block in which it was moving was occupied by a preceding train.

Cause

This accident was caused by failure to provide adsquate protection for the preceding train.

Recommendation

It is recommended that the Western Maryland Railway Company install an adequate block system for movements against the ourrent of traffic in the territory in which this accident occurred.

Dated at Washington, D. C., this twenty-seventh day of May, 1965.

By the Commission, Commissioner Clarke.

(SEAL)

HAROLD D. McCOY,

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