U.S., interstate communice. Commission,

Railroad accident investigation report Ev. 67 no. 251-300

Capt. of Fransportation

on the Pennsylvenia Reilroad near Invited UL 69-1976

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On Bebruary S. 1915, there was a rear-end collision between two freight trains on the Fennsylvania Railroad, mear Irving, M. Y., resulting in the death of one employee and injury to three employees. After investigation of this accident the Chief of the Division of S.fety submitted the following report:

The Chautaugus branch of the Fennsylvania Reilroad, on which this accident occurred, is a single track line. the movement of trains being governed by time table, train orders and a manual block signal system.

Mos. 6321 and 6326, consisting of 48 leaded care and caboose, left City, Pa., at 8.03 p.m., February lat for Buffelo, N. Y.

A few miles north of Cil City, the Frame on engine No. 6328 was broken and this engine was then placed in the rear of the train, two cars ahead of the caboose. At Crow, a siding about 2 miles south of Irving, the crews were relieved on account of having been on duty sixteen hours, the enginemen, firemen, conductor and brokenen going to the caboose for the purpose of dead-heading to Buffelo, their terminal. The train departed from Crow at 11.45 a.m., in charge of Conductor Carroll, Enginemen Liedy on the leading engine, and Enginemen Christenson on the helping engine. It arrived at Irving about 11.55 a.m. and stopped with the leading engine at the water spout, located fust north of a three-span steel girder bridge, 450 feet in length over the

Catterugas River. After the leading engine had taken water the train moved shead and stopped for the second engine to get water, with the cabcose on the northern end of the bridge. Thile standing there the train was atruck by train 1st No. 303.

No. 2881, consisted of 30 leaded cars and a caboose. This train, in charge of Conductor Chulman and Enginemen Schultz, left C11 City. Fa., at 2.15 a.m. on the date of the accident for Suffalo, N. Y. At "CK" block station, the last open telegraph office and about four tiles south of the point of the accident, train 1st No. 303 received a permissive block signal and passed that station at 12.02 p.m. About 2,000 feet wouth of the bridge the engine exploded two torpedoes, and Enginemen Chultz made a light application of the air brakes. Then about 400 feet from the bridge, he saw the flagman and at the same time the rear end of extra 6721. An emercency application of the brakes was then made, but the train failed to stop before the collision occurred.

The engine of train 1st No. 303 telescoped the deboose of the extra and forced it forward into the cost car is mediately sheed. One of the brakemen deadhadding in the caboose was killed.

Beginning about 1.0 feet south of the bridge there is a 2° 33° ourse to the right, 600 feet in length, prior to which the track is straight for nearly a cite, with a .3% ascending grade for northbound trains. The rear of extra 6321 could be seen by the enginemen of the following train a distance of 700 feet. The ground was covered with ice, while the weather was clear.

Conductor Carroll, of extra 6321, stated that when leaving Crow he went into the caboose and told the brakemen that the train would stop at Irving and both engines would take water. Then the train stopped for the leading engine to take water, he left the caboose and got on the second engine. After the head engine had taken water, he heard the whistle sounded, but could not tell the number of blasts. The engineman remarked that the engineman on the head end had called in the flag, but he said, "He must have whistled off." The engineman of the second engine answered by two blasts of the whistle and after waiting two or three minutes the train started. Hen the second engine arrived at the water spout it was uncoupled from the train and had been standing there a snort time teking water when the accident occurred, at about 12.12 p.m.

Engineran Liddy, of the leading engine, stated that at Crow he end Conductor Carroll, in the presence of the brakemen, arranged that both engines about take enter at Irving; the flagmen, however, was not present. The leading ensine stopped at the Later spout and was there about 10 tinu as taking water. He then resolved a proceed signal from the brakeman, which he enswered with two short blasts of the whichte. He then pulled shoed and was waiting for the second engine to take water when the collision occurred. He is positive that he lid not, at any time, sound four blasts of the whistle.

firemen Barrows: of the leading engine stated that leaving Crow it was understood that both engines were to take water at Irving. Then the train arrived at the mater spout the leading

engine was out off and water taken, after which it was coupled to the train and the brakeman gave them a signal to go shead. They pulled shead and when the second engine had about reached the water spout, his enginemen sounded four short blasts of the whistle for the enginemen of the second engine to signal him to stop when the train had pulled shead far enough for the second engine to take water.

Brakeman Thumberg stated that at Grow arrangements were made for both engines to take water at Irving. Upon arrival at Irving, he out off the legitur engine and after it had taken water he recoupled it to the train, and told Enginemen 1166y that it as all right to pull shead. The enginemen then sounded four blasts of the whistle. In about five minutes the rear engine enswered by two blasts of the whistle; he then told Engineman 111dy to pull about. Engineman 112dy answered by sounding two blasts of the whistle, and pulled up for the second engine to take water.

on the ear ahead of the second engine. He knew nothing of the arrangements for the second engine to take water at Irving. The train stopped at Irving and the head engine took water; anginesian bliddy then sounded four long, distanct blasts of the whistle. He stated that he then looked back, and saw the flagman give a proceed signal, which angineman wildy soknowledged with two blasts of the whistle. This in turn was answered by the second engine. The train then pulled sheed for the second engine to take water.

angineman Christensen, of the second engine, stated that upon arrival at I wing the head engine took water, after which En ineman Lindy sounded two blasts of the whistle. He answered impeditely, opened the throttle of his own engine, and just as the train started he looked back and saw the flagman give a proceed

signal. He stated that if the head enginemen called in the flagman before whistling off he did not hear the signal, as the safety valve on his engine was unseated part of the time.

Fireman Colegrove, of the second engine, stated that efter the head engine had taken water, he heard four long blasts of the whistle sounded, and told his engineman they were calling in the flagmen; his engineman answered by sounding two blacks of the whistle, Just before the collision occurred he saw the flagman about five feet from the southern end of the bridge, at which time he was going back but was making slow progress on account of die on the ties.

structions or information relative to both engines taking water at Irving. The train stopped at about 11.55 a.m. with the head engine at the water spout. He immediately got off the caboose and walked back about 18 or 30 car lengths and remained until called in by four long blasts of the whistle on the lead engine. He then placed two terpedoes on the rail, returned to this caboose and gave a proceed signal. The train pulled up, stopping with the caboose on the northern and of the bridge, and he got off immediately. Then he head the torpedoes explose, he took his flag and went back, reaching a point about five or ten feet south of the bridge when the approaching train passed him.

Engineman Schultz, of train 1st No. 303, stated that when passing "CK" block station he was given a permissive signal and proceeded at a speed of about 25 miles per hour. Before reaching the curve approaching Irving, and when about 2,400 feet south of the bridge, his engine exploded two torpedoes. He immediately

and asked the brakeman and fireman, who had a better view, if they could see anything shead, they replying in the negative. He stated that when a train was taking water at Irving its rear end usually extended south of the bridge, and in this case, seeing no rear end, he concluded that the train had gone. He drifted along and was just going to release the brakes when he naw the flagman and the caboose on the bridge. The brakeman and fireman shouted to him at the same time. He made an emergency application of the brakes and when the collision occurred had reduced the speed from about 15 miles per hour to about 5 or 4 tiles per hour. He further stated that then he first saw the flagman, he was about 10 car lengths away and about in the middle of the bridge. This of is brakes, except one, seve in good torking order, and took noth in an effective manner.

Firemen Mughes, of train lat No. 303, stated that upon the explosion of the torpedoes, the enginemen shut off steam. Firemen Mughes then got upon the seat with the brakemen to look shead, but saw nothing. As the train came near the bridge they saw the flacken running toward them, and at once shouled to the enginemen, who immediately node an emergency application of the brakes.

This accident was caused by the failure of Flagman regner and Jonductor Carroll properly to protect their train, and by the failure of Engineenan Tchultz properly to control the speed of his train after explosing two torpadoes.

Rule No. 99 of the operating rules of this railroad reads as follows:

"When a train stops or is delayed, under circumstances in which it may be overtaken by another train, the flagman must go back immediately with stop signals a sufficient distance to insure full protection. When recalled he may return to his train, first placing two torpodoes on the rail when the conditions require it."

Under this rule, even if he had been called in when the first engine had finished taking water, when the train pulled up 48 car lengths and again stopped to permit the second engine to take water, Flagman sagner should have gone back immediately, and not waited until he heard the approaching train, or depended upon the torpedoes he had placed on the track to provide protection. In view of the fact that the train stopped with the rear end on the bridge, in an unusual location, and that the view of an approaching train was obscured by a curve, proper regard for safety required that Flagman sagner should have used extreme case in protecting the rear end of his train.

Conductor Carroll is equally at fault in that he failed to make definite arrangements with Flagman Magner relative to both engines taking sater at Irving. Then his train pulled up for the second engine to take water he was only three car lengths from the rear of his train; he knew that the flagman had been recalled by the head engine, and when the second stop was made he should have made certain that his train was properly protected.

Enginemen Cohultz see at fault in failing properly to control the speed of his train after exploding the two torpedoes approaching Irving. General Rule No. 15 reads as follows:

"15. The explosion of two torpadoes, not more than 200 feet apart is a signal to reduce speed and look out for a stop signal or track obstruction."

which required him to proceed with caution, expecting to find the block occupied. After exploding the torpedoes, the view being obstructed by the curvature of the track and also by the bridge, he should have so controlled the speed of his train as to have been able to stop it within his range of vision. If he had done so in this instance the socident would not have occurred.

while the evidence is conflicting, it is believed that singinesses liddy sounded four blasts of the whistle before the second engine had taken water, and in so doing he used poor judgment in giving a signal which might be interpreted by the flagmen as a signal to return to the train.

all of the employees involved in this accident were experienced men. The crew of extra 6521 had been on duty 3 hours and 14 minutes and the crew of train 1st No. 303, 11 hours and 14 minutes at the time of the accident.