INTERSTATE COUMERCE COMMISSION.

REPORT OF THE DIRECTOR OF THE BUFFAU OF SATETY IN RE INVESTIGATION OF AN ACCIDENT THICH OCCURRED ON THE NASHVILLE, CHATTANOOGA & ST. LOUIS RAILWAY NEAR ADAIRSVILLE, GA., ON JUNE 19, 1924.

July 12, 1924.

To the Commission:

On June 19, 1924, there was a head-end collision between a passenger train and a work train on the Nashville, Chattanooga & St. Louis Railway near Adairsville, Ga., resulting in the death of three employees, and in the injury of six passengers, seven parsons carried under contract, and seven employees.

Location and method of operation.

This accident occurred on the Atlanta Division which extends between Atlanta, Ga., and Chattanooga, Tenn., a distance of 136.81 miles; in the vicinity of the point of accident this is a singletrack line over which trains are operated by time-table and train orders, no block-signal system ocing in use. The accident occurred at a point about 1.61 miles south of the station at Adairsville: approaching this point from the north the track is tangent a distance of 1,025 feet, then there is a 10 curve to the left 830 feet in length and tangent 1,430 feet in length, follored by a 1° 58' curve to the right 1,392 feet in length, the accident occurring on this curve at a point 810 feet from its northern end. Approaching the point of accident from the south there is a 30 61 curve to the right 538 feet in length, and a tangent 122 feet in length, followed by the curve on which the collision occurred. The grade is slightly ascending for southbound trains, being 0.57 per cent at the point of accident. The collision occurred about the middle of a fill 500 fect in length and 14 feet high, cut banks on both ends of "high restrict the viet to the length of the fill. It was daylight and the -eather ras clear at the time of the accident, which occurred at 5.06 a.m.

Description.

Southbound passenger train No. 3 consisted of one express car, one mail car, one baggage car, to coaches, and three Pullman sleeping cars, in the order named, all of all-steel construction, hauled by engine 551, and was in charge of Conductor Dyer and Enginem n. Stuele. It lift Chattanooga, Tenn., at 2.55 a. m., on time, arrive at Acairs-ville, Ga., at 4.55 a. m., reparted at 5.03 a. m., three minutes late, and had proceeded about 1.6 miles when it collided with work extra 383 thile traveling at a speed estimated to have been because 55 and 40 miles an hour.

Work entra 383, or the time of the accident, consisted of a caboose and one care car, both of Tooden construction, hauled by engine 383, and was in charge of Confuctor Payne and Ingineman Robertson. It left Kingston, Ga., approximately 8.2 miles south of the point of accident, and at which point it had tied up the praceding evening, or 4.50 a.m., according to the train sheet, passed Talls, at which point it should have taken the siding for train No. 3, and had proceeded a distance of about 31. These when it collided with train No. 3 while traveling at a speed estimated to have been between 30 and 35 miles an nour.

The force of the impact drove work extra 383 backward a distance of about 40 feet, turning both engines over down the fill on the inside of the curve and practically demolishing engine 383 and badly deraging engine 551. The caboost and came car in the rork extra were also badly demaged. The leading truck of the express car, the first our in train No. 5, was derailed. The employees killed were the engineman and fireman of the work extra, and an engine matchman who was riding on the engine of the work extra at the time of the collision.

Simmery of evidence.

Conductor L. E. Payne, of Form entra 583, stated that he was called at 4 a.m. for duty at 4.30 a.m., and that upon reporting no received the usual form orders together with several other orders not involved in this accident. He relivered those orders to Elmineman Potertson and at the same time informed him that they would clear train No. 3 at Halls. On account of having to turn the engine he said his train did not depart from Kingston until 4.48 a.m., but

as than No. 3 is not due at Falls until 5.10 a.m. he considered there was ample time to go to Halls. He showed the train orders to both the brokeman and flagman and toll them they would clear train No. 3 at Halls. Shortly after Departing from Timpston Conductor Payne said he took a position in the cupola, while the brakeman and flagman were elgaged in preparing breakfast, and he did not again think of train No. 3 until he say it approaching just before the collision; he could not account for his naving forgotten about that train. He estimated the speed of his train just prior to the collision to have been bettern 30 and 35 miles an hour. Confuctor Payne said he had compared time with Engineman Robertson before leaving Kingston, and that the engineman stuned to be in his usual condition.

Flagman Resgan, of form entra 383, stated that he did not forgot about train No. 3, but as he was engaged in preparing broakfast he was decending upon Confuctor Peyne to see that they classed what train at Halls. Brakeman F. L. Payno said he did not read the orders received at Ilingston but understood that his train was to clear train No. 3 at Halls, and unle he was assisting Flagman Reagan propere breakfast he was also valting for Lingman Robertson to reduce speed approaching Halls and was prepared to attend to the said he was unarrathed has then had passed Halls.

Engineman Steels, of train No. 3, said he had no knowledge of work extra 785 until he saw it approaching about lower or five car lengths distant, the speed of his train at that time being about 35 miles an hour, and he at once applied the air brakes in emergency and jumped. The costimony of Tireman Chestain corroborated that of Engineman Steels, while the testimony of other members of the craw of train No. 3 developed nothing further of importance.

Conclusions.

This accident has caused by ford extra 383 running equination opposing superior train without authority.

As the engineman and liminan were killed there is no may of determining the reason for their having overlooked train No. 3, the conductor, he ever,

admitted that he critically forgot about train No. 3 after leaving Kingston. Brakeman Payne and Flagman Reagan said they were a are that their train was to go to Malls for train No. 3, yet both of them apparently depended entirely upon the conductor to such that they cleared the time of train No. 5. Had either of these employees been properly attentive to his duties he would have realized that his train was passing Hells and could have taken such action as was necessary to bring the train to a stop. For such negligence there can be no excuse and both must share with the engineman and conductor the responsibility for this accident.

This accident again calls attention to the innerent weakness of the human element in train operation, and the need for some form of automatic train control device which fill interveneand the control of the train when for any cause a crow everlooks an approaching opposing train. Her such a device been in service on this railway this accident would have been prevented. It is also probable that it would have been prevented had a block signal system been in use. It is thought that the density of traffic, which is 15 through trains daily at this time of the year and of greater tensity furing the winter season, farrents the installation of such a system.

None of the employees involved in this accident had been on duty in violation of any of the provisions of the neurs of service law.

Raspectfully, submitted,

T. P. Rorland

Director.