INTERSTATE COLMERCE CO'LISSION

REPORT OF THE DIFECTOR OF THE SUPERU OF SAFLTY IN RE IN-VESTIGATION OF AN ACCIDENT "HICH OCCUPPED ON "HE ATLANTIC COAST LINE PAILHOAD AT FAHUNTA, GA., ON NOVELBER 28, 1983.

February 5, 1924

To the Commission

On November 26, 1923, there was a rear-end collision between an Atlantic Coast Line passenger train and a Southern Railway passenger train on the Atlantic Coast Line Railroad at Panunta, Co., which resulted in the death of 1 employee, and the injury of 81 passengers, 17 persons carried under contract, and 2 employees.

location and rethod of operation.

This accident occurred or that part of the Savannah District of the Second Division extending between Savannah, Ga., and Jacksonville Fla. There are the routes between Folkston and Jesup, which are intermediate stations on this district, that via Jahunta being known as the Jesup short line. At Nahunta the Jesup short line, which runs almost due north and south, is crossed by the Prunswick-Waycross Branch, both being single-track lines, with wye connections both north and south of the crossing. The accident occurred on the Jesup short line at a point about 100 feet north of the switch leading to the north leg of the view, which switch is 1,014 feet north of the station.

The Jeau's short line is tangent in either direction for several miles, while the grade is practically level. There is no block-signal system in use, trains on the Jesup short line baint operated by time-table and train orders. At Nahunta there is a rechanical interlocking plant which is used to govern crossing movements only all of the switches being hand-operated and all of the functions of the interlocking plant being mechanically operated. The northbound home and distant signals are located 350 and 2,150 feet, respectively, south of the crossing. An approach bell indicator begins to sound when a northbound trains enters upon a track circuit which extends approximately 4,100 feet south of the crossing, and at the same time electric locks become effective, locking derails: the south wye switch is locked when the track is lined up and signals are displayed for a track is lined up station is located in the northeast ingle of the intersection, the train-order board is located at the station, and its normal position is clear.

The weather was cloudy at the time of the accident, which occurred at about 10.36 p.r.

Description.

Northbound Atlantic Coast Lile passenger train extra 464, thich ordinarily is operated as train No. 52 between Jacksonville and Waycross, was being detoured via Nahunta and thence on the Brunswick-Vaycross brunch to Taycross It consisted of four express cars, one baggage car, two coaches, one aining car, and six Pullian sleeping cars, in the order named, hauled by engine 464, and was in charge of Conductor Mahoney and Engineman Fesperman It Folkston train order No. 82, Forr 31, was received reading as follows

> "Engs 464, 358, 469 run extra Folkston to Nahunta with right over all trains south run ahead of 1st class trains make first class speed".

Extra 464 left Folkston at 9.47 p.m., 23 minutes late on the schedule of train No 32, bassed Winokur, 11.9 miles from Nahunta and the last open office, at 10.15 p.m., and according to the train sheet passed the station at Nahunta at 10.29 p m. In order to make the movement from the vain line to the Brunswick-Waycross branch, it was recessary to pull by the north wye switch, and then back through the north leg of the vye to the branch line track. While the rear of extra 464 was either standing on the main line north of the switch, or being backed slowly toward this switch, it was struck by train No. 8.

Northbound Southern Railway passenger train No. 8 consisted of one mail car, one express car, two coaches, and four Pullman sleeping cars, in the order named, hauled by engine 1907, and was in charge of Conductor Tipton and Engineman Evans. This train left Jacksonville directly behind extra 464, left Folkston at 10.00 p.m., passed Winokur at 10.21 p.m., eight minutes behind extra 464, and, according to the operator at Nahonta, passed that station at 10.56 p.m., and collided with the rear of extra 464 while traveling at a speed of about 25 miles an nour The force of the collision derailed the forward truck and considerably daraged the rear end of the last car of extra 464 and slightly danaged three other cars. Engine 1907 was considerably damaged, but no material damage was sustained by any of the equipment in this train. The employee killed was the engineman of train No 8.

Surtary of Evidence.

Engineran Fesperran, of extra 46±, said all signals at Nahunta were in the clear position, that he reduced speed to about 8 or 10 miles an hour at the time his train passed the station and that shortly afterwards, while looking back to receive a nand signal indicating when he should stop his train after passing the soutch to the wye track, he saw the reflection of a fusee which he thought was located between the rear of his train and the station. . He had reversed his engine and opened the throttle, but the train had not started to move backward when the collision occurred. Just before the collision occurred he saw the fusee being waved violently near the rear end of the train with the weather conditions existing at this time he thought a fusee could have been seen for a distance of 2 miles.

Conductor Mahoney, of extra 464, stated that after leaving Folkston, where he received train order No. 82 he took Baggageraster focullough to the rear of the train and explained to both the baggagemaster and to Flagman Sanders that they were to detour via Nahunta, he instructed the flagman to throw off a fusee before reaching Nahunta and to watch out for the following train, the baggagemaster was instructed to handle the wye switch, and he intended that the baggagemaster should ride on the rear end as the train backed around the wye; the train porter was to open the other wye switch. He knew train No 8 was following, but thought that train would be stopped at the fusee south of the crossing. Conductor Mahoney alighted from his train as it was passing the station at Nahunta, went into the telegraph office and asked the operator for orders to Waycross, which he said were delivered and signed for by him and he left the office immediately, estimating the time spent in the office to have been one or two minutes. He did not ask the operator to set the signal against train No. 8. As he left the office he saw train No. 8 a mile or more away and at the same time saw a fusee burning on the track about one-half mile distant, between the station and the approaching train. He stated that the train passed the fusee without acknowledging it, and he then began to give stop signals with his lantern, which signals he said were

not answered. He also stated that the engineman of train No. 8 did not shut off steam or apply the air blakes until the engine and about two cars had passed over the crossing. He denied having instructed Flagman Sanders to remain with the rear of the train, but said he told him to lock out for the rear of the train and expected hir to know enough to flag when the approaching train was near.

Flagman Sanders stated that between Folkston and Nahunta he rode on the rear platform of the observation car, he saw the headlight of train No 8 about a minute after leaving Folkston and he could see it from that time all the way to Nahunta. After leaving Folkston the conductor calle to the rear, and told him to throw off a fusee when the train began to slow down at the distant signal at Nahunta for the purpose of protecting the train, as No 8 was following, the conductor also told him that he should stay at the rear of the train and the bag mage master would throw the syntches He understood he was to ride the rear end as the train backed around the type. When the brakes were applied near the distant signal at lahunta he threw off two fusees, one of which went out, but he said the second one landed in the middle of the track and was burning brightly as train No 8 was approaching. He thought this fusee was about a train-length south of the distant signal. He staved on the rear platforn until the train passed the west wye switch, then lighted another Jusee, got down on the ground and started back. He said train No 8 had at that time passed the fusee he had thrown off and vas still working steam. He thought he had gone back about half the distance to the station when train No 8 passed him, the brakes were applied about the time the engine passed over the crossing. He thought his train had just started to move backward when the collision occurred. He said ne could have gotten off the train at the time the conductor not off at the station, but he did not do so as the conductor had instructed him to stay at the rear . After the accident he did not look back to see whether his fusee was still burnlng.

Baggagemaster McCullough said Conductor Mahoney instructed his to open the wye statch, that the porter would open the statch at the other end of the wye, and the sovement would be protected by a fusee, it was his understanding that Flagman Sanders was to ride the rear of the train around the wye. Approaching Mahunta he was on the rear of the train and saw Flagman Sanders throw off a fusee. Baggagemaster IoCullough gave the engineman a stop signal after the train had passed the wye switch, got off, opened the switch, looked to see if train No. 8 was coming, and saw that the fusee was still burning. He then started to walk around the wye track to see if there was a derail. Flagman Sanders got off the train just after he and, lighted a fuses, and started back He also say the conductor giving stop signals opposite the station.

Train porter James get off at the station with the conductor and rent eastward on the Brunswick-Wayeross branch to open the solution on that end of the wye. This switch is about 1,000 feet from the station and he said that about the time he reached it he heard some one near the station shouting and on looking save a white light being waved it being about this time that train No. 8 passed over the crossing, still working steam.

Fireman Jordan, of train No. 8, stated that he was riding on the seat box approaching Nahunta and that all three signals were clear. He did not see any fusces on the track, the weather was clear and he could see signals plainly, and if there had been a fusce on the track he would have seen it. About the time the engineman sounded the station whistle signal and after passing the distant signal he got down to put in a fire and thile so engaged heard the engineman apply the air brakes in emergency and saw him start to leave his seat box; he immediately looked out, saw the rea markers and lights of the train ahead and jumped from the engine. He also stated thatEngineman Evans was fully awake and attentive to his duties and expressed the opinion that had there been a fusce burning on the track Engineman Evans would have seen it and would have taken proper steps toward bringing the train to a stop.

Conductor Tipton, of train No. 8, said that prior to starting on this trip he and Engineman Evans ate supper together and he noticed nothing unusual about the engineran Conductor Tipton was riding in the doorway of the baggage car approaching Nahunta and on looking out he noted that the signals were displaying clear indications; he said he did not see the light of any fusees on the track ahead of his train and if there had been one burning he would have seen the glare.

Flagman Michols, of train No. 8, said he was standing just inside of the rear door of the last car when he felt the brakes applied and the shock threw him down. He jumped up quickly, ran out, picked up his signal case and lanterns and went back to flag train No. 80, lighting a fusee as he ran. At that time there was no fusee burning on the track behind his train Baggagemaster Driver, of train No. 8, said the brakes were applied just as the baggage car was going over the crossing.

Overator Stokes, on duty at Nahunta, stated that extra 464 passed at 10.29 p.m. and truin No 8 at 10.36 p.m. As extra -C+ passed, the conductor got off, call into the office, asurd for an order, which he received, read and signed for, and then went out. He thought the conductor WES in the office about a minute and left about four or five ringues before frain No. 8 arrived. The indicator bell began to ring when train No. 8, entered upor the track circuit, unflooking in that direction he say the headlight of train To 18, but did not see any fusee. He did not kno: thether extra 184 was into clear at that time as he was sitting at the telegraph table and could not see in that direction without getting up and going to the window; however, he thought there had been sufficient time for it to get into clear. He did not consider it necessary to space train To. 3 tel mutes behird extra 464, as under the orders Nahunta was extra 464's destination He had been on duty before then similar movements to the branch line had been made, but said he had never been asked to hold the hore signal against the following train thile the movement was being lade and never had done so.

Superintendent Pugh said the normal position of the train-order signal is clear, and that while it is used for the purpose of spacing trains, there is no rule requiring the operator to place the signal in the stop position and continue displaying a stop indication until the 10-minute time interval has elapsed. He also slid that an operator is supposed to know when another train is approaching and to arrange the signal accordingly

J. T Moore, of Atlanta, Ga., a passenger on extra 464 stated that he was riding in the observation end of the lear car of extra 434 and that he say train No. 8 approaching for about five minutes before the collision occurred, and that he did not see any fusces or red lights between the car in which he was riding and the oncoming train. There were state ents by other passengers to the effect that they had seen a fusce on the track, but this was after the occurrence of the accident.

Conclusions.

This accident was caused by the failure of Conductor Mahonev and Flagman Sanders, of extra 464, to provide proper protection for their train.

Thile the investigation disclosed that there may have been sole misunderstanding between Conductor Mahoney and Flagman Sanders as to the method which the conductor intended to be followed in protecting the move ent of extra 464 from mur line to the we, it is upparent that this move ent wis not protected as required by the rules. Fule 99(a) is as follows:

"Then the speed of a train is reduced and its rear thereby endangered by a following train before the flag an ear get off, a lighted fusse wist be thrown upon the track at intervals until the Disman can get back to protect his train."

In this instance entire dependence ras evidently placed upon a fusee which the floor an states was throm off near the distint staral The flag. an and bagrage master of extra #S= were positive in their statements that a lighted fused was throw off at that point, and Conductor Thoney said train to 8 ran over the lighted fusee nithout asing ledging it, he ever, the fire an and conductor of train To. 8 viero equally jositive that there was no burning fusee on the track in that vicinity then that train apploached, and their state ents are supported by the state ent of the operator that he say no fusce as train No. 3 approached, as well as by the fact that Engineman Evu of train No. 8 continued to operate his train at full speed beyond that point, and other evidence. It is believed, therefore, that if Flagian Sanders three off a fusee then approposing Tabunta it was not burning then train No. 3 approached; both Conductor Inhenew and Flagman Sanders were in position to have full knowledge of this fact.

Rule 99 provides that "then a train stops or is delayed under curor stances in which it may be overtaken by enother train, the flagman must to back i "ediately rith stop simals a sufficient aistance to insure full motection. This ware was not complied with. Both Conductor Tahoney and Flag an Senders knew that train No. 8 ras following the, an it had been in sight for several miles, and there Tas sigle time to have provided approvate protection. It was clearly the duty of Conductor habbney to see that adequate flag protection was provided for his train while it vas occupying the main track, and he said he told the rlagman to perform this duty. The statements of the flagman, hovever, are to the effect that he was told to remain with his train, in thich statement he is supported by the baggage aster. Regaraless of which version is correct, Conductor Laboney was it position to knor what was taking place and should have seen to be that his train was being properly proceed.

Under the interlocking rules, the nor al indication of he esignals is stop and signals rust be restored so as to display the nor al indication as soon as the train or engine for much they mere cleared has cased 300 feet beyond the . However in view of the light traffic on the Bruns lick- inverses branch it oppears that the practice has grown up at this point to leave the signals clear for main line lower ents except over a crossing howepent on the branch is pring made. The invertoching signals at lahunta were in the clear position then train "o. 8 approached, as previously stated, they are not bed to indicate thether of not the smooth is obcurred by a preveding train. Had these structs been placed in normal position then extra 43passed and not cleared until that train has into clear on the track this socident bould probably have been prevented operator Stokes could easily have been prevented operator Stokes could easily have acceptained that entry is not clear of the sum line then train How 3 operated, and he could note set the interlocting stinul to such a such as the interlocting stinul to such a optime.

The time-order load the also in the clear posttion. Under these encodeds Fighthean Evins, of train No. 6, had no mening of the presence of a train abord, except such stimule as hight have been used by the conductor and fightan, until he can the armons on the rear of except also also any intervals on train No. 8 more not sphile until to tak possion the station. In viet of the fact that the track is station and that the techner conditions mers favorable on the observance of smalls in therein Frank should note size of the station of external frank the to puble of the charman has train of exter 40% in the to puble of the birth has train to a stop

occling to the reords train No. 8 passed inckur, the last open office south of the point of robinent eight innutes behind extra 164. The lethou follo ea on this line for spectar trains is for the operator to have to the entine of a train pressing a sustion less than 10 linuted behind a theoreding train a card sonth, the tile the fre-ceding train respect the entine on them being expected to re ulate the gread of six train of ordered for proper specing fir this instance, however, the operator at "included for hord such - comb to the entireman of train No. 8 as no the wet the should emproaching that it would pass about the 10- intto pailed empired, and it actually areared scorer than be erbeated. The hornal andication of train-order boards is clear on most mailroads the normal mostmich us at stop. They are placed in that position as soch as a train has passed inflare not cleared for a follo ing train until it specoches the station, and then not unless the precomben firs has elapsed since the passate of the first trun. Such in a parge ent, on account of the train-order board alrays being in the stop position except when a train is actually basing, lessens the opportunity for smich on the part of the operator and is therefore Mole desirable from the standpoint of safety in train operation.

Recording to the time-table there are 10 firstoldes that a scheduled on this line between Polkston and Joint In this instance four first-class trains tere obstated only a few mantes spart, and tules thich tere essential to substraine not obsted. The tile-table and tichn-order state of train oper-sion is indequate to provide pipper protection for training of this character. Had the degree but of the pontrol atsted been in use at this joint this wooden, rould underheadly have been provented

The offlutees involved tare experienced len, except Operator cores, we use 10 rears of are and had about 6 ontic experience as the operator. It the time of the posident the track one is had been on 1 to less than 3 hours after flore 10 hours off duty.