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INTERSTATE COMMERCE COMMISSION

REPORT OF THE DIRECTOR OF THE BUREAU OF SAFETY IN REINVESTIGATION OF AM ACCIDENT WHICH OCCURRED ON THE SOUTHERN RAIL AY NEAR ROCKMART, GA, ON DECEMBER 33, 1936.

Janualy 11, 1937.

To the Commission:

On December 33, 1926, there was a head-end collision between two passenger trains on the Southern Railway near Rockmart, Ga., which resulted in the death of 11 passengers, 7 employees and 1 news agent, and the injury of 113 passengers, 4 employees of the railway and 6 Pullman employees. The investigation of this accident was made in conjunction with representatives of the Georgia Public Service Commission

Location and method of operation

This accident occurred on that part of the Atlanta Division extending between Atlanta, Ga , and Chattanooga, Tenn., a distance of 152.7 miles. In the vicinity of the point of accident this is a single-track line over which trains are operated by time-table, train orders, and a manual block-signal system. Northbound trains of the same class are superior by direction. The accident occurred at a point approximately 4,000 fest south of the station at Rockmart, 'pproaching this point from the south there is a short tangent, a 3° curve to the right 532 feet in length, 1,002 feet of tangent and then a 3° curve to the left 834 feet in length, the accident occurring on the last-mentioned curve at a point 158 feet from its northern end. Approaching from the north there are 3,170 feet of tangent, followed by the curve on which the accident occurred. The grade for a considerable distance is 0.97 per cent descending for northbound trains

The passing track is on the east side of the main track, the south passing-track switch is located on the short tangent between the two curves, and can not be seen by the engineman of a northbound train until he has practically reached the northern end of the 3° curve to the right, which is only 795 feet from the switch. This switch can be seen by the enginemal of a southbound train for a considerable distance.

It was dark and raining at the time of the accident, which occurred between 6.40 and 6.45 p.m.

Description

Southbound passenger train No. 101 consisted of one club car, five Pullman sleeping cars, one dining car and two Pullman sleeping cars, all of steel construction, hauled by engine 1456, and was in charge of Conductor Randall and Engineman Corrie At Dalton, Ga, the crew in charge received a copy of train order No. 92, Form 19, reading as follows

No. 101 one naught one Eng 1453 meet No 32 thirty two Eng 1326 at Shannon No 6 six Engs 1230 and 1205 coupled at Atlanta Jct First No 2 two Eng 1219 at Rockmart and second No 2 two Eng 1265 at Braswell No 32 thirty two No 6 six and First and second No 2 two take siding.

Train No. 101 arrived at Rockmart at 6.35 p.m , at which point a clearance card was received stating that the block would be clear on the arrival of train first No. 2. After water was taken, train No. 101 proceeded southward on the main track at a low rate of speed, waiting for train first No. 2 to arrive and head in on the passing track at the south switch, and had been brought nearly to a stop at a point 883 feet north of the switch when it was struck by train first No 2.

Northbound passenger train first No. 2 consisted of one combination car, one coach, one dining car, and seven Pullman sleeping cars, all of steel construction, hauled by engine 1219, and was in charge of Conductor Arrood and Engineman Keith. Before departing from Atlanta the crew received a copy of train order No. 92, previously quoted, written on Form 31 When it stopped at McPherson, 11.4 miles south of Rockmart, for the purpose of meeting en opposing train, Road Foreman of Engines Pearce, who had been riding in the compination car en route to his home at Rome, 21.9 miles north of Rockmart, boarded the engine and took charge of it, Engineman Keith going back to ride in the combination car. Train first No departed from McPherson at 6.23 p.m , 15 minutes late, passed Braswell, 6.4 miles from McPherson, at 6.35 p.m., 16 minutes late, passed the south passing-track switch at Rockmart and collided with train No 101 while traveling at a speed believed to have been approximately 50 miles per nour.

Both engines were derailed, but they remained upright. Engine 1219 was badly damaged while the tender distern was torn from its frame and thrown down the embandment on the inside of the curve. The combination car in train first No. 2 was telescoped at its head end nearly the length of the baggage compartment, while the coach immediately behind it telescoped the dining car, the third car in the train, about three-fourths of its length. Only the club car and the first

sleeping car in train No 101 were derailed, both ends of the club car and the forward end of the sleeping car being badly damaged. The employees killed were the road foreman of engines, fireman, baggage-master, three dining car waiters and one cook, all of train first No. 2.

Summary of evidence

Engineman Corrie, of trair No. 101, said the operator at Rockmart handed on a clearance card stating that the block would be clear on the arrival of train first No. 2. On being informed by the fireman that that thain as not in sight from the left side of the engine, Enginemen Corrie pulled his train ahead for a short distance and stopped for vater. He then proceeded slowly on the main track, at a speed of from 4 to 6 miles per hour, with the headlight burning brightly, and finally ne saw the reflection of the headlight of the engine hauling train first No. 2, a for seconds before it came in sight through the cut on the curve south of the passing-track statch Engineman Corrie said no vatched the headlight closely and by the time it reached the tangent track approaching the switch he made up his nino that the train was not going to stop, he applied the air brakes on his own train, called to his fireman to get off, and then did so mimself. He thought the speed of train first No & must have been close to 60 miles per nour when the accident occurred, although he said ne was not looking at it at that particular time, being engaged in getting out of the way, neither did he notice whether there was any fire flying from the brake shoes Engineman Corrie further stated that he had heard a whistle signal of some kind sounded by the engineeran of train first No. 2, but he was uncertain as to its hature, and shortly afterwards he heard him sound the usual whistle signal calling the attention of the crew of extra 5243, which was occupying the passing track, to the fact that signals were being displayed for a following section of train No. 2. He did not hear any other histle signals, nor did ne sound any signals on the whistle of his own engine. The statements of Fireman Baker vere similar to those of Engineman Corrie.

Conductor Randall, of train No. 101, said the operator at Rockmart told him he had given the conductor's copy of the clearance card to the baggage master and he again boarded the train, which proceeded slowly toward the south switch. Finally he heard one long blast on the whistle sounded by the engineman of train first No. 2, and judging from the sound of the whistle and the roar of the train he concluded that it was approaching Rockmart at too high a rate of speed to be able to stop at the south switch, made a remark to this effect to the Pullman conductor, and started to get out of the car but the accident occurred before he could do so, Conductor Randall said he did not hear any other thistle signals. It also appeared from his statements that the air brakes on his own train were applied just before the accident occurred, but he was unable to say whether or not the train had been brought to a stop.

Baggage master Copeland, of train No. 101, said he received the conquetor's body of the clearance cald for his train at Rockmart and that the train as proceeding slowly toward the south switch when he heard the engineman of train first Fo. 2% ploying signals at the error of extra 5343, the accident occurring very shortly afterwards, he did not hear any other whistle signals sounced. After the accident Mr. Copeland assisted in renoving Road Foreman of Engines Pearce from his engine and he said the load foreman asked him now the accident occurred, when told that he had failed to take siding for train No. 101 he replied that Engineera Keith, Fireman Moss and every one concerned had told him that he was to hold the main track, and he then added that men he sounded the station whistle signal he asked Fireman Moss "No hold the main track?" and he said the fireman moss "No hold the main track?" and he said the fireman moss "No hold the main track?" and he said the fireman moss "No hold the main track?" and he said the fireman most to explain what the road form an had in mind when he used the vords "every one concerned"

Flagman Stancell, of train No. 101, said me has riding on the rear end of the observation car after leaving Rockmart station, that he has looking out on the engineman's side of the train, and that he saw the headlight of the engine nauling train first No. 2 when it passed through the out on the curve south of the south switch. He heard the engineman of their first No. 2 sound a station whistle signal, following which he sounded the usual signal calling attention to the fact that signals were being displayed for a following section. Flagman Stancell continued to match the approaching train until the accident occurred, and judging fior the mount of miles per hour.

Engineman Koita, of train first No. 2, said his fire an read the orders before the train departed from Atlanta After stopping on the main track at McPhurson to await the arrival of an opposing passenger train he got off and began to oil the engine. While in the ground on the left side of the engine he neard the whistle signal sounded recalling the flagman and supposed that the signal had been sounded by the fireman, but on boarding the engine he found Road Foreman of Engines Pearce sitting on the engineman's seat box. He asked the road foreman, who appeared to be in normal physical condition, what he was going to do and the latter told are no was going to run the engine as far as Fome, Enginees a Keith replying that he tould go back and ride in the train Engineran Keith said the road fore and then asked him hat orders he had and that he told the road fore an distinctly that they were to head in at Rockmart and meet train No. 101, union instructions he said vers leneated aloud, in their entirety, by the road foreman, the then began to work steam. Engineeran Emith immediately got off the engine and was helped aboard the combination car at the 'oor of the baggage compartment by Sonductor Ar ood, who esked his if he had told the road fore on about the orders. After leaving McPherson the train as operated in a normal

manner and Engine ion Keith said unat linally he heard the road foreman sound the station or (131, rollowed by hat appeared to be an answer to a signal, presumbly a meetingpoint signal given by the conductor or so hone back in the train, and very snortly afterwards ne neard the road foreman thistle signals at the crew of extra 5243, those latter signals no thought were answered by the engineman of the freight train. At about the same time Engineman Poith noticed the train passing the south sylveh and for the first time me realized that there was something wrong, he said he started to get up for the purpose of opening the condictor's energency valve but the accident occurred Lefore this could be done Engineman Keith estimated the speed of the train at the time of the accident to have been about 45 or 50 miles per hour. and said that to the best of his knowledge the air brakes, which had been torking properly at all times, were not applied by the road foremen before the accident accurred.

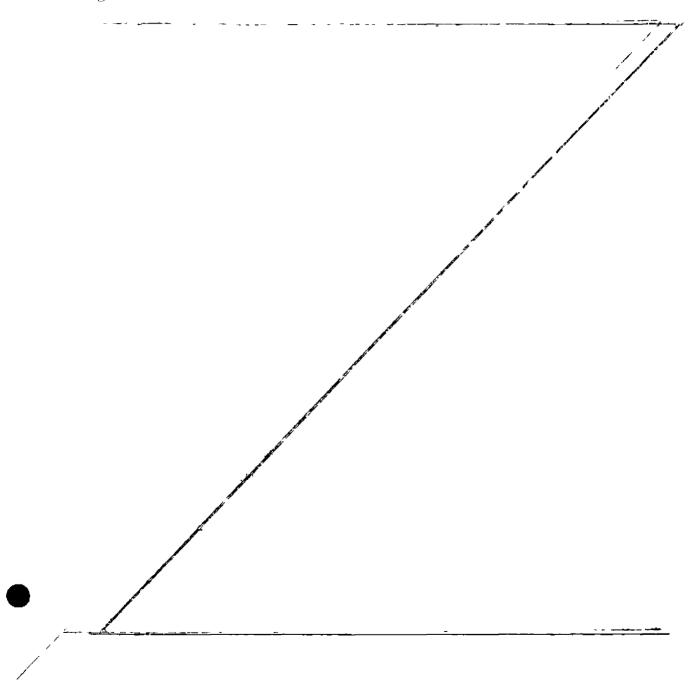
Engineran Krith further stated that he understood the road foreman had sade a statement when being removed ion the reckage to the effect that he had been cold his train was to hold the main track at Rockmart, but he did not feel that the road fore an would have made such a state ant under ordinary circumstances and he said he was absolutely positive that the road foreman understood the situation thorougaly when relieving him at McPherson or he would not have left the ongine in his charge When questioned in connection with the subject of road foremen relieving engineren write un vorte, Engineman Reith indicated that it was don, occasionally and that it was customary under such circu stances for an engineman so It was not the relieved to go back and ride in the train practice, however, at least with Road Foreman of Engines Pearce, to turn over to aim the outstanding train orders, and Engine nan Keith did not think cuch a practice involved a violation of that part of rule 200 of the Pules of the Operating Department reading as follows:

When a conductor of engineral, or both, is relieved before the completion of a trip, all train orders and instituctions held must be delivered to the relieving conductor or engineman. Such orders or instructions must be compared by the conductor and engineman before proceeding.

Engineman Keith's position in substance with respect to the application of this rule was that it applied to enginemen as such and not to an official the might relieve an engineman, that if the read foreset did not understand the situation thoroughly then it was incumbent on him to ask the regular enginemen to let him see the orders, and that in this particular case the read fore an staited the train immediately after isking what orders he held.

Conductor Ar 'ood, of train first No. 2, send that when his train reached McPherson, Road Foreman of Engines Pearce, who had been riding in the combination car apparently asleep, went for ard to the engine and on looking out as the train started the conductor saw Engine an Koith clinbing in the door of the baggage compartment, it being customary for an engineman to ride in the train when relieved by a road foreman Conductor Arwood assisted the engine an into the car and then asked him if he had had an understanding with the road foreman that they would take siding and meet train No. 101 at Rockmart, to which the engineman replied in the affirmative. Conductor Arvood had finished collecting transportation, with the assistance of the flagman, at about the tire the train passed Braswell and he then started to walk amead from about the third car from the rear of the train. Shortly afterwards he heard the train pass over a trestle, apparently just south of Rock-mart, and at about the same time he heard the road foreman sound one long blast on the whistle and apply the air brakes. The brakes were released within a very fer seconds, however, and the speed of the train began to increase Presently he heard the road foreman sound a station whistle signal and then there were two short blasts on the mistle, apparently in answer to a meeting-point signal which Conductor Arwood supposed had been sounded by the bangage master, this being followed in a few seconds by the snock of the collision, he did not hear the road foreman whistle simhals at the crew of the freight train. Conductor Arroad was not positive out said he thought the air brakes were applied in energency a fraction of a second pefore the collision occurred. He was then in the car immediately behind the dining car and on going forward to the combination car he found the baggage master of his train still in a conscious condition and asked him if he sounded the meeting-point signal to the road foreman, and he quoted the baggage master as saying that he had sounded the signal and that the road foreman answered it. Conductor Arroad said he had not talked with the road foreman during the time the latter was riding in the combination car, but he did state that the road foreman seemed to be in normal physical condition. Conductor Arwood further stated that the reason he did not sound the meeting-boint signal personally was because he had told the baggage master before leaving Atlanta to ratch the meeting points and to give the necessary signals, as he would be busy collecting transportation, and he said that he also gave his orders to the baggage master. Conductor Arwood thought that under the rules the duty of sounding meeting-point signals could be performed, when the conductor was otherwise engaged, either by the baggage laster or the flagman, and said this practice was followed to some extent. Conductor Arwood also said that all he known the road forcing was going to relieve the engineman it would have been his duty to see that they exchanged orders or else had an understanding as to trains to be met, and he considered that he had had this understanding in this particular case by reason of the conversation

he had with Engineman Keith when the latter returned to the baggage car. Sonductor Arwood hade two estimates as to the speed of his train at the time of the accident, first saying it was 25 or 30 miles per hour and afterwards saying it was 35 or 40 hiles per hour. Conductor Arwood did not know anything about the statement the road foreman or engines was said to have rade inhediately after the occurrence of the accident, to the effect that he did not know his train was to take siding, until he heard the statement rade in the investigation.



Flagran McElhaney, of train first No. 2, said that after assisting the conductor in collecting transportation he started back toward the rear of the train, and hen in the second our from the rear he heard the road fore an sound a station whistle signal and apply the number of kes, huch were afterwards released. He next heard the road foreign answer some signal which apparently and been given him, the accident occurring very shortly afterwards, at which time the speed of the train was 35 or 10 viles per hour.

Truin Porter Robinson, of them first No. 2, said that as the truin approached Rockmart he heard the road foreing sound a station whistle signal and that he then heard the baggagemester sound the resting-point whistle signal, he did not hear this signal acknowledged by the local fore an but he did nee him whistle signals at the crew of extra 5345. In the reantime Train Porter Robinson had picked up his lantern and staited through the car in order to be ready to get off and open the possing-track syltch and it was made he was so engaged that the accident happened. He estimated the speed of his train at the time of the accident to have been about 50 miles per hour and said that the accident occurred without the air brakes having been applied.

Engineeran Turner, of southoound freight train extra 5243, vales was occurying the passing track at the time of the decident, sold me and received listiuctions to back up far enough to allow train first No. 2 to head in at the south passing-track switch. He looked back to writch for a back-up signal but was unable to see it on assount of the f ct that he was looking directly into the roys of the headlight of the engine hauling train No. 101, such was then moving slowly southward on the Moin track. In the meanthie he had heard the road fore an on time first No. 2 sound one long blast on the whistle befole the their came in sight, and he said that as the or in this approaching the so the smitch the road fore an sounded the signal calling attention to the fact that tiere was a following section. Engineman Turner send ne did not answer this dignal, but instead he sounded one lon blast on the mistle of his own eagine as a stop of all, replizing that an accident was about to occur, out he said he did not see any fire flying from the brake sands under the approaching trein He estimated the speed of train first No. 2 to have been at least 40 miles or wor. After the accident Engineman Turner assisted in reroving the read foreman from his engine, but the only the heard his say was that he was burning to death. Engineum Turner's state ents were substantially correbetated by those of Assistant Road Foreman of Engines Propet, who was on engine 5243 working on the stoker.

Conductor Sorrells, of extra 5243, said he was about three coach-lengths behind the rear end of train No.101 when he say the headlight of train first No. 3 coming around the curve south of the south statch, and he than ran across the rain track to the west side so as to be in a position to watch the approach of the train, he realized that it was traveling too fest to stop at the s 1982 but was unable to estimate its speed. Conductor Sorrells also said he heard the road foremen sound a station inistle signal and apparently answer a meetingpoint signal, his our engineers then sounded a stop signal and he thought it was after this signal had been sounded that the road fore an waistled signals at the crew of the freight train. Conductor Sorrells assisted in removing the road foreman from his engine and he said the road fore an asked how the accident happened and was told that he should have taken siding for train No. 101. The road fore an then started to ask other questions but Conductor Sorrells said he told hir to stop talking and let them help him off the engine. He did not hear the road foreman say anything to indicate that he thought his train was to hold the hain track when accting trul No. 101. Conductor Sorrells also talked ith the baggagemaster of train first No. 2, but only to ask nis no badly he was nurt; he did not hear the bagguagenatter say anything about giving the road foreman a nessiar-point signal.

State ents were obtained from doctors and nurses at the hospital in Rome when Road Foreman of Engines Pearce has taken after the accident, and where he relained until this death on the dry following the accident, but these statements did not develop anything definite to indicate how he came to pass the south switch intacts atophing; in fact, the most important statement was that by Dr. Shaw, who said the road foremen made a remark to the affect that there was no excuse for the occurrence of the accident.

Road Foreman of Engines Pruitt, assigned to the Atlanta Division south of Atlanta, said it was not his practice to relieve an engineeran while on route unless because of illness or for some unusual reason, that he ould relieve an engineeran occasionally before leaving a torm oil, but under such circumstances he did not allow the engineeran to leave the engine and ride in the train, and he always took possession of material oiders the oilness in late received.

The diming car in which the majority of the fatalities occurred was built by the Pullman Company in 1917. An examination of the plans covering the end construct hof this cor and also of the to cars inhediately preceding it in train first No. 2 failed to disclose

that there was any reason from a construction stendpoint thy this particular car should have been telescoped, in first, the end construction of the diming or provided a little more strength than that possessed by the car by which it was telescoped.

Signal Supervisor Hinds said automatic blocksignals and train control apparatus were being installed
betwien Macon and Atlant, and betwen Austell and Oolts an,
stations near atlanta and Chattanongs, respectively, and
that if the plans had be nourried out the signal and their
control systems would have been placed in service prior to
the date on which this occident occurred. Due to delays
encounts, ed, nowever, the section between Mee'n and atlanta
had not quite been completed and placed in service at the
time of the accident, while none of the signals north of
Atlanta had been placed in service. Practically all of
the engines, however, had been equipped with the train
control apparatus.

Conclusions

This accident was caused either by the failure of Road Foreman of Engines Pearce and Engineman Keith, of train first No. 2, to have a thorough understanding as to the contents of train order No. 92, which required their train to take siding at Rockmart for train No. 101, or by the failure of Road Foreman of Engines Pearce to remember the contents of the order.

Under ordinary circulatances train No. 101 would have been required to take siding for train first No. 2, which was superior by direction. This superiority, horever, had been reversed by train order No. 92, and Engineman Keith said that wen he was relieved by the road fore an at McPherson, 11.4 miles south of Rockmart, he was very careful to inform the road fore an that they were to neet train No. 101 at Rockmart and that they were to take siding for that purpose. The various whistle signals sounded by Road Foreran of Engines Pearce as his train approached Rockmart indicated that he had not become physically incapacitated and that he was fully conscious of his location, but on the other hand the high rate of speed at which has train was traveling as it rounded the curve a short distance south of the passing-track switch, coupled with the fact that the air brakes were not applied, if at all, until a few seconds before the accident occurred, makes it clearly apparent that he had no intention of stopping at the passing-track switch, but rather that he fully expected to have a clear track.

This latter idea is supported by the statement he was said to have rade then being removed from the cab of his engine in ediately after the occurrence of the accident, to the effect that he had been told his train was to hold the tain track. No for all statement was obtained from the road fore an prior to his death, but thether he was not clear as the requirements of the order, or had forgotten it, the fact remains that he was at foult, for he had exercised his authority as the superior officer of Engineeran Keith by relieving the latter of the operation of the engine and it was incumbent on him to know absolutely what orders were outstanding affecting the movement of the train.

The last paragraph of rule 220, previously quoted, requires train orders to be delivered to the relieving engineman or conductor, and the orders must be co wared before the train proceeds. So far as this particular accident is concerned this provision night just as well have been omitted from the book of rules, for none of those involved observed it, Engine an Keith retained the orders in his possession while Conductor Arwood was act present when the road foreman took charge of the engine. Engineman Keith took the position that the rule did not apply in this case because of the fact that the person who relieved him was an official and not an engineran. This position is not well founded, if any official of a railroad relieves the regular engineman he then automatically becomes the engineman of the train and is bound by all the rules governing the operation of the train, the proper handling of train orders, etc., as fully as though he were the regularly assigned engineman. The necessity for a strict observance of that part of rule 220 herein referred to is even more obvious when, as in this instance, the engineman who is relieved by a superior officer leaves the engine and goes back to ride in one of the cars in the train. And in this connection it might be pointed out that in allowing Engineen Keith to leave the engine Road Foreian of Engines Pearce violated instructions which had been issued by the superintendent under date of April 19, 1926, these instructions, however, were addressed only to the road foremen of engines.

Under the rules, enginemen are required to show their orders to their firemen, and firemen are required, when necessary, to call the attention of enginemen to the instructions in the orders. Engineman Keith said he showed the orders to Fireman Moss before the train departed from

Atlanta and that after the fire an had finished reading them he asked the fire and to give his understanding of them. If Fire an Moss, who was an experienced employee and had passed the rechanged examination for promotion to engine on, was familiar with the contents of the orders, as it was his duty to be, then he should have directed the most fore and a attention to the them it became apparent that the laster was not going to stop the train before passing the south switch. Any attent to explain his failure to do so, however, would be one conjecture.

Conductor Armord, of train first No. 2, had finished collecting transportation and was walking through the cars toward the head end of the train at the tile of the accident. Thile he knew the approxilate location of his train as it approached Rockwart he did not know its location exactly and was not in position to briag the train to a stop by means of the conductor's valve unen it becare apparent that the speed was not being reduced preparatory to stopping at the south So to that similar situations are of frequent sulten. occurrence and the net result is that the safe openation of the train depends upon one man, the engineman. Unfortunately, however, as is well illustrated in the present case, the results of a listake by this one an are apt to be so serious as to lake it a lattel of necessity that there be some one back in the train in position to take action in the event there is a failure on the part of the engineer to obey orders. This duty, nominally at least, belongs to the conductor, but when the situation on any particular train reacces a point which takes the conductor little more than a sichet collector, then it would appear that so e provising should be rade to correct the situation by the use of ticket collectors or train auditors ration than by laving the conductor depend on the baggage aster the flagman, or the train porter. Conductor Ar ood, nowever, said his duty to collect transportation was not interfering with his duty to attend to the safe operation of his train; this being the case, he should have made it his business to ascertain the exact location of als train and had he done so he might have been in position to apply the air brakes in time to avert tie accident.

The state lents of the various exployees indicated that they had not been examined on the rules since the present book of rules took effect in August, 1923, and the conductor and engineran at least of train first No. 2 did not have a correct understanding of rules involved in this accident, Conductor Arwood tho with it was a rule that baggagemasters and flaguen could sound the cuting-point signal when the conductor was other-Wise engaged, while Engine an Keith thought that when on engineman was relieved by a superior officer it was not necessary to comply with the rule requiring train orders to be turned over to the officer relieving hi. T are is nothing in the rule, to support the ideas of either of these ciployees, which were founded apparently more upon custon than upon rule. obvious that train and engine-service exployees should have a thorough and correct understanding of the operating rules that there is no need of discussing the atter in detail here, it is sufficient to point out the situation as outlined above and to suggest that steps be taken to see that all persons whose duties are affected by the rules shall be examined sufficiently often to insume that they know the rules and understand the correctly.

While the mental and physical qualifications of Road Foreign of Engines Pearce are in no way involved in this accident, wet it is a question mether it is ood prictice to allow a road foreman of engines, or any otter official, to relieve an engineers except in case of energency. In order that engine en way be properly qualified for their duties it is custo mary to give them periodic examinations on the operating rules and fore or less frequent examinations as to vision, color sense and hearing, while many railroads are adopting the idea of thorough physical examinations when their engineren attain a certain age in life in order to guard against the possibility of an engine an becoming suddenly incapacitated thile at the throttle of his engine, in addition to these precautions, efforts are made to see that they are given an apportunity for adequate rest between trips. On most railroads, however, as with the railway on shich this accident occurred, it is true that none of these various precautions is observed with respect to road foremen of entines, apparently it is assumed that as officials they fill keep posted on the operating rules, and that their vision, color sense and hearing, as well as their general physical condition, will in no way become impaired. If

one of these subordinate officials, or any other official, is to be allowed to relieve an engineman at wall, then there is no good reason why he should not be required and be known to be as well qualified in every respect as the engineman whose place he is occupying, for it is obvious that a failure upon his part is just as dangerous as a failure upon the part of the regularly qualified and assigned engineman.

In order to provide for a safer and more efficient operation of its trains over this line the languagement was installing an automatic block-signal system coupled with a system of automatic train control, although in deciding to include the use of automatic train control in this territory the management was doing so ething which it had not been required to do under either of the Commission's orders on this subject. At the tire of the accident the signal and train control systems had been installed between rule posts 9 and 135, within which territory this accident occurred, and according to the progress reports, all that remained to be done was the work of painting and testing. As criginally planned, both the block and train control systems would have been in use prior to the date of this accident but delays arose which the company could not prevent, and the unfortunate part of the situation is that this is a type of accident which propably would not have occurred had an autoratic block-signal system been in use and thich would have been prevented by an adequate automatic train control system.

Road Forenan of Engines Pearce, who was 47 years of age, was employed by the Southern Railway as an experienced engineman in 1912 and was road foreman of engines on the dynamometer car from 1916 to 1921, when he was given the position of road foreman of engines on the Atlanta Division, which position he was occupying at the time of the accident. All of the other employees involved were also experienced men. At the time of the accident the crew of train first No. 2 had been on duty slightly more than 2 hours after from 16 to 28 hours off duty. The crew of train No. 101 had been on duty between 12 and 13 hours, from 3 to 4 hours of much had been consumed in laying over between runs, previous to this period of duty they had been off duty from 19 to 32 hours.

Respectfully sublitted,

W. P. BORLAND, Director.