INTERSTATE COMMERCE COM ISSION

REPORT OF THE DIRECTOR OF THE BUREAU OF SAFETY IN REINVESTIGATION OF AN ACCIDENT HICH OCCURRED OF THE ST. LOUIS-SAN FRANCISCO RAIL AY AT WILSON, ARK, ON OCTOBER 15, 1939.

February 17, 1930.

To the Conrission:

On October 15, 1989, there was a collision between a parsenger train and a cut of cars on the St. Louis-Sci Francisco Rail ray at Alson, Ark., which resulted in the injury of 16 pasiencers, 3 employees and 1 person carried ander contract.

Location ad mixtox of operation

This accident occurred on the C alifee Sub-Division of the River Division, which extends of theen Chaffee, Lo , and Turrell, Ark , a distance of 139.5 miles, and is a single-track line over which trains a coperated by the-thole and train orders, no clock-signal syste being in use. The excident occurred vituin yers limins at a point 4,438 5 feet south of the station at vilson and 132 feet so thanf the south passing unob state, approachin this point from the north the track is takens for a distance of 3,401 Direct and approar in from the south st is tengent for a distance of 5.2 riles, rule the grade is priofically level. The passing track is 4,013 feet in length and parallels the nain black on the east, the north switch being 335 8 feet south of the station The switch erand at the south end of the passing track is located on the east side of the main track and is equipped with a switch lamp with lenses 5 inches in dia meter, buch are located 7.5 feat above the head block.

The restner was clear and it wis not tolsk at the time of the accident, which occurre at about 7.05 p. m

Description

Southbound freight train extra 4016 consisted of 33 cars and a caboose, hauled by online 4016, and recan charge of Conductor Harris and Engineman Gettians. This train arrived at Vilson at 3.30 p. r., and after taking rater it entered the north switch of the passing track, where it coupled to a cut of 56 cars standing on that track and shoved them ahead in order to elect the north switch

In making this government the south end of this cut of cars was shoved out on the main track and while standing at that point the leading car was struck by train No 822

Northbound passenger train No. 822 consisted of one baggage car and two coaches, all of steel construction, hauled by engine 186, and was in charge of Conductor Wilson and Engineman Green. This train departed from Turrell, 18.7 miles south of Wilson, at 6.41 β m, 16 minutes late, and was approaching the station at Wilson when it collided with the cars ahead of extra 4016 while traveling at a speed estimated to have been between 10 and 20 miles per hour

None of the equipment was derailed, although the forward end of the first car ahead of extra 4016 was telescoped about 3 feet. Engine 186 had its forward end cuite badly damaged and the three cars in its train sustained slight damage. The employees injured were the engineman, baggageman, and train porter, of train No. 822.

Summary of evidence

Engineman Gettings, of extra 4016 stated that upon arrival at Wilson he found the train-order signal displayed, and after instructing the head brakeman to ascertain if they had any additional time on train No. 822, the engine was cut off and spotted at the water tank. While water was being taken, the brakeman returned and advised there were no orders pertaining to train No. 822 The engineman then gave the brakeman two fusees and instructed him to proceed along the cars standing on the passing track and see if they were all coupled, and if he found there was any room to shove these cars ahead, the brakeman was to give a signal for such a movement. The train then entered the passing track at the north switch and coupled to the cars, Engineman Gettings called for a signal and received a proceed signal from the head brake-After moving a short distance, the brakeman's lantern disappeared from view, but upon calling for another signal, it was transmitted by the brakeman. The train continued to nove slowly ahead and then the head brakeman's lantern again disappeared, the engineman called for signals the third time and the brakeman lighted a fusee and gave the same signal that had been previously given. Engineman Gettings then looked back and noticed that the capoose was clearing the main track, looked ahead again but did not see any light at the head end of the cut, looked pack and then received a stop signal from the rear end. The middle brakeman, and repeated the first of the signals given by the head brakeman, but did not give any more signals after that time. Not being able to see any lights at the nead end after the train stopped, Engineman Gettings thought perhaps

something was wrong, so he got off and started forward. and when he reached a point about 35 or 40 car-lengths from the engine he noticed that some of the cars had been shoved out on the Main track and that the brakeman was some distance beyond the cars, flagging with a red fusee, and at this time he thought these signals were intended for train No. 822 Being of the opinion that the cars had been shoved through the switch, resulting in damaging it, he returned to the engine and called the conductor three different times by means of the usual whistle signal he did not see the conductor's lantern appear, he started back along the train and met the conductor about 10 carlengths from the caboose He informed the conductor as to what had occurred and advised the conductor to obforward and supervise the backup movement to prevent derailing the cars. The conductor hesitated at first, not knowing whether the rear brakeman would know how to handle the situation regarding a possible backup movement and also about flagging against train No. 807, due in about one hour, but Engineman Gettings volunteered to go to the caboose and give the proper instructions, so that the conductor could go up to the head end. After this had been done, the engineman started ahead toward his engine and had reached a point about four or five car-lengths from the engine when the collision occurred. He did not see a backup signal at any time, but while he was back near the caboose he heard a backup signal acknowledged by the engine whistle, although this signal was not acted upon. Engineman Gettings further stated that before neading in on the passing track, he did not know how many cars were on that track, and the reason he have the head brakeman the two fusces was for the purpose of flagging train No. 822 providing his train could not get into clear. He said it was an oversight on his part in failing to provide the brakeman with a red lantern and torpedoes, although at the time he felt that the fusces rould be all that was required. When questioned as to why he did not continue southward and examine the smitch at the time he went forward to determine what was wrong, he explained that he was in doubt as to the possibility of pulling the cars back without derailing them and thought it would be better to have the conductor inspect the switch and be on hand to direct the backup movement. He also said that the reason he did not continue beyond the cars at that time, and make certain that train No 822 was properly flagged, was that when he saw the brakeman giving stop signals with a fusee, he felt satisfied that the train was then approaching and thought these signals were sufficient warning.

Fireman Miller, of extra 4016, stated that he did not hear the instructions given to the brakeman by the engineman, as he was on the tender taking water at the time. While the train was moving through the siding, he crossed



over to the engineman's side of the cab and saw the head brakeman, who was riding on the side of a car, giving pro-Tueed signals with his lantern, after which the brakeman lighted a fusee and used it in giving the same signals. He said the engineman called for signals each time the brakeman's lantern went out of sight. He did not know that the cars had been shoved out on the main track until the engineman returned, after going ahead, and informed him of the fact, the engineman remarking that he was going back to get the conductor While the engineman was proceeding towards the caboose he sounded a backup signal, but received no signal from the rear of the train, although the swing brakeman, who was between the engine and the south passing-track switch, gave a backup signal, he did not accept this signal as the engineman had stated that he thought the switch had been run through and the points damaged

Head Brakeman Pender rass, of extra 4016, who had had only three weeks' experience, said that when he returned from the office at Wilson, the engineman handed him two fusees and instructed him to go to the far end of the cars on the passing track and to stop them when they reached the clearance point He proceeded to the south end of these cars, which were then 12 or 15 car-lengths from the switch, and after the engine coupled to the other end, they were moved ahead in response to his proceed signal After the cars nad moved a distance of two or three car-lengths, and while giving proceed signals, his lantern became extinguished, he attempted to relight the lantern, using all the matches in his possession, but without success, so he lighted a fusee and gave stop signals, first from the side of a car and then while standing on the ground facing northward or toward his engine, and at this time the leading car was three or four car-lengths north of the clearance point. The cars continued to move slowly ahead, however, and thinking that they might not be coupled, he boarded the second car from the head end, a gondola, and set a hand brake, but this also failed to stop the cars. Realizing that the cars would move beyond the south end of the passing track, he got off, ran ahead and opened the switch, and while the cars wer. still moving he ran southward to protect against train No. He said the fusees in his possession were five-minute fusees and the one he had lighted to use in passing signals, burned out about two minutes after he left the cars. three or four minutes later, he thought he saw the headlight of train No 822 approaching and so he lighted the second fusee, but it developed that he had been misled by automobile headlights on the highway which parallels the main track on the west, and when the train finally approached, this second fusee had also burned out, leaving him without lights or any other flagging equipment. He attempted to

warn the crew of the approaching train by standing in the middle of the track and waving his cop with one hand and his unlighted lantern with the other, continuing this performance until the train was so close that it mas necessary to step off the track on the engineman's side, and when the engine passed him he continued his stop i. signals He did not know whether the engineman acknowledged his signals and did not think the speed was reduced before the engine passed him, which was at a point approximately 4 telegraph-pole lengths south of a bridge which is 1,700 feet from where the cars were standing on the main track. Brakeman Pendergrass said he kne that in addition to fusces, engines are supplied with red lanterns and torpedoes, but he did not provide himself with this additional equipment on account of the fact that he was on the ground at the time the engineman gave him the instructions, together with the fact that at the time as left the engine he did not think it would be necessary to flag train No. 822. It also appeared from his statements that he had elemned his lantern that morning, but could not remember when he had filled it, he did not know why it went out, but said that after the accident he refilled it.

Swing Brakeman Crader, of extra 4016, the made his first trip under pay on the day before the accident, stated that he coupled the engine to the cars stunding on the passing track and then malked southward to a point about midway between the engine and the couth end of the cut. He noticed the head brakeman give two proceed signals vith his lintern, which he religed to the engineman also say the hard brokemen standing on the main track ---ving a fusce, but did not know whether he was giving signals to the crew, as this was the first time he had ever seen signals given with a fusee. It appeared to him that the head brakeman was waving the fusee in line with the track, instead of across it, and from the very those signals more being given he thought they were intended for a highway crossing As soon as the cars came to a stop, he ran to a point about six car-lengths from the leading car, from which point he could see that the cars were out on the main track. After giving a backup signal, he returned to the angine and informed the fireman that the train would have to be backed up and the fireman valistled a backup signal, but there as no signal given from the rear of the train.

Conductor Harris, of extra 4016, who had been made a conductor only two days prior to the recident, stated that when his train arrived at Wilson, he calked to the head end of the train and the engineman advised him as to what arrangements had been made with the brakemen to handle the cut of cars on the passing track. The conductor remained at the north switch and the train cleared the main track at 6.45 p m, after which he closed the switch and

gave a stop signal, and then went to the telegraph office to get bills and train orders. While these movements were being made, the flagman was in the vicinity of the caboose The conductor returned to the caboose about 10 minutes later, left the bills, and then started valking towards the head end of the train, and when he had reached a point about 10 car-lengths from the caboose he met his engineman, who informed him that some of the cars had been showed out on the wain track, the engineman asking him to proceed to the south switch and ascertain whether the switch was all right before a backup hovement was started Conductor Harris hurried southward and had reached a point about 10 car-lengths from the south old of the cars when the collision occurred He was of the opinion, at the time the arrangements were made to clear the main track for train No. 822, that his train was being given the proper supervision, in view of the fact that the engineman had instructed the two brakemen at the head end of the train as to how to handle the situation, and since the rear brakeman did not know what movement was to be made, he thought it was necessary to remain at the north switch and close it, and then to get the bills and orders, so that as soon as train No. 823 arrived his own train could proceed to Bassett ahead of train No. 807 without delaying the latter train.

Flagman Rhodes, of extra 4013, who had had about three months' experience, said he was the one who closed the switch after the caboose had cleared the main track. He then started ahead, but met Engineer Gettings and was told by the engineman that the latter thought some cars had been shoved out on the main track at the south switch, that the head brakemen had gone out to flag train Mo. 822, and that he was to return to the rear end of the train and look out for train Mo. 807.

Engineman Green, of train No. 822, stated that the customary air brake test was made before leaving Memphis and that several stops were made en route without difficulty The train approached Wilson at a speed of about 60 miles per nour and when it reached a point in the vicinity of the bridge, he observed some one, without lights, in the center of the track jumping up and down and waving his aris, about a pole-langth ahead of the engine ing there was something irregular, he started making a scrvice application of the brakes, but continued moving the brake-valve handle around into the errrency position. The brakes responded promptly and had reduced the speed to about 10 or 12 miles per hour by the time the secident oc-Enginaman Green did not see the indication discurrid played by the switch lamp at the south passing-track switch ntil about the time he noticed the man standing on the track, and he also stated that although the headlight of

his engine was burning properly, it was impossible, at that time of the evening, to have seen the man on the track at a distance of 800 feet

Fireman Kizer, of train No 822, stated that upon reaching a point a short distance south of the bridge, he noticed a man standing on the engineman's side of the track about in engine-length ahead of the train flagging with his erms, he thought the engineman saw this person at about the same time, as the engineman applied the brakes as soon as he came into view. Shortly afterwards he noticed the cars obstructing the main track and called them to the attention of the engineman. He estimated the speed of the train at the time the brakes were applied at 50 or 55 miles per nour, but this speed had been reduced to 15 or 20 miles per hour by the time the accident occurred Fireman Kizer also stated that the time of day prevented him from seeing the switch light at the south passing-track switch any sooner than he did, which was about the time that he saw the cars on the main tract, although under ordinary conditions this light could be seen for a distance of about 14 miles.

The statements of Conductor Wilson and Brakeman Marshall, of train No 822, were to the effect that the brakes were properly tested at Memphis, and that their first intimation of anything wrong was when they felt a heavy application of the brakes which appeared to be an emergency application, while the train was approaching the passing track at Vilson. They estimated the speed of their train at this time to have been from 40 to 55 miles per hour, and at the time of the socident at 18 or 20 miles per hour. Immediately after the accident, Brakeman Marshall want back to flag and met the head brakeman of extra 4016, who was harriedly valking northward, between the train and the bridge south of the passing track

Statements of Assistant Superintendent Sims indicated that on account of an unusual amount of business, it had been necessary to call back into service all available men and even after calling on other divisions of the raility, as well as other railroads in the vicinity, it had been impossible to obtain a sufficient number of trainmen. It also appeared that on this division, within the past 30 days, 26 experienced trainmen and 30 inexperienced trainmen had been employed in addition to those called back into service. On the morning of October 14 no regular freight creas were available at Chaffee for train No. 835, a second-class merchandise train, and it was necessary to make up a crea from the extra board, this being the train crea involved in the accident here under investigation.

Conclusions

This accident was caused by cars naving been pushed out on the main track, on the time of an overdue first-class train, without proper flag protection

The evidence is to the effect that there was a cut of 50 cars standing on the passing track at Wilson, and when extra 4018 entered that track to meet northbound train No. 822 it was necessary to slove trese cars ahead in order This lovement to clear the main track at the north switch was started by proceed signals given by Head Brakeman Penderivass, and in continuing these signals his littern was extinguished. Being inable to relight it, he lighted a fusee and gave signals, thich were intended for stop signals, but the middle brakeman did not know what they were. while the engineman thought they were proceed signals. The result was that some of the cars were pushed but on the main track a distance of nearly 200 feet and the head brakemen then continued southward to flag train No. 822. A short time later he observed a light in the distance, ristook it for train No. 822, used his second and last fusee, and when train No. 322 finally came in sight the head brakeman had nothing left in the way of flagging equipment, conseclently he did what he could to flag the train by waving his arms while standing in the center of the track, but was unable to warn the crew of that train in time to prevent the acci-こついた

The rules provide that a fla, man's or inhert at night shall consist of a red light, a write light, torpedoes and fusces. Brakeman Pendergrass did not provide himself with the additional equip ent before he left the engine, simply taking what the engineman gave him, while Engineman Gettings was of the opinion, at the time he handed the two fusces to the brakeman, that these would be sufficient to flag train No. 822 providing there was insufficient room on the siding for his train to clear the main track. Had Brakeman Pendergrass seen furnished with the proper flagging ecuipment, there is no doubt he would have been able to prevent the accident.

The testirony is conflicting as to the signals given with the fusee by Brahaman Penderdrass at the time the cars were being sloved ancad. He maintained that some of these signals were given unite he was on the ground facing the eighne, but Eighnenan Cottings and Fireman Miller contended that the signals were given in the same manner as those previously given with the brahaman's lantern, while Brahaman Chader said that the signals appeared to be given in line with the track as if flagging a clossing, although

he had never seen signals given with a fusee and did not know what they meant.

Consideration of all the circumstances attending this accident indicates quite clearly that the fundamental difficulty rested with the increased of the train
crew. Of the four men composing the train crew, the conductor was the only member who was an experienced man, and
he had been made a conductor only two days previously. In
view of the lack of experience of all three of his braremen, it rould shew that Conductor Harris should have erranged to give personal supervision to the rovement which is
being attempted, instead of leaving it to the engineman
to operate his engine, see that his rear end was into clear,
and it the same time supervise the work of two inexperienced brakemen, one of whom was 50 car-leagths distant

At the time of the accident none of the cuployees involved had been on duty in violation of any of the provisions of the hours of service law.

Respectfull submitted,

W. P. BORLAND,

Director.