

INTERSTATE COMMERCE COMMISSION

REPORT OF THE CIRCION OF THE BUREAU OF SATETY IN RE IN-VISTIGATION OF AN ACCIDENT HICH OCCURPED ON THE TABASH RAILWAY AT TILLIAMSPORT, INDIANA, ON JUNE 1, 1974.

June 20, 1924.

To the Commission:

On June 1, 1924, there was a derailment of a passenger train on the abash Relivay at Williamsport, Indiana, the derailed train celliding with a freight train standing on a passing tract, resulting in the death of 6 passengers, 6 employees off duty, and I employee on duty, and the injury of 44 passengers and 4 employees. The investigation of this accident was made in conjunction with representatives of the Public Service Commission of Indiana.

Location and method of operation.

This accident occurred on the Second District of the Peru Division, which in the vicinity of the point of accident is a single-track line over which trains are operated by time-table, train orders and an automatic block-signal system. The point of accident was at the dost passing-track system as williamsport; approaching this point from the vest there are about 4,000 feet of tangent, followed by a curve to the left of 1° which is about 2,500 feet in length, following which the track is tangent for some distance beyond the saltch, which is 218 feet beyond the end of the curve. The grade is 0.819 per cent descending for some distance, followed by about 2,050 feet of 0.257 per cent descending grade to the point of accident. The last eastbound signal, No. 281.1, is located nearly 3,000 feet west of the dest system. The veather was slightly foggy at the time of the accident, which occurred at about 11.44 p.m.

## Description.

Westbound freight train second No. 91 consisted of 59 cars and a caboose, hauled by engine 2210, and was in charge of Conductor Melson and Engineman Bouchard. It arrived at Villiamsport at 11.20 r. n., and was standing on the passing track at that point when it was struck by the derailed equipment of train No. 2.

Eastbound passenger train No. 2 consisted of one mail car, one express car, one combination car, one coach, one chair car, three sleeping cars, and one business car, hauled by engine 672, and was in charge of Conductor Martin

and Engine an Bickel. It left Danville, Ill., 21.9 miles from Filliansport, at 11.11 p. m., one unute late, and was derailed at illiansport thile traveling at a speed estimated to have been about 50 miles an hour.

Train No. 2 came to rest in three sections; the engine and first three cars composed the first section and stopped at a count about 3,000 feet beyond the statch, none of this equipaths being derailed. The second section consisted of the seach and chair car, both of all-seed construction, and came to rest in an upright position 1,075 feet beyond the stitch, the rear truck of the coach had been derailed at the stitch causing the rear and of the car to salvo to the left and strike the side of engine 2210, Thile the chair car had its front and torm away on the left side. The chird section was composed of the three sleeping cars, also of all-steel construction, and the business car, thich was of steel-underframe construction; all of these cars were derailed but remained upright, the first to carry to rest east of engine 2210 with their left sides considerably demaged, while the third sleeping car came to rust with its left side against engine 2210 and was also considerably demaged, thile very slight damage was sustained by the business car. Most of the fatalities occurred in the third sleeping car, and were due to the steem carring the car as a result of the check valve and other parts having been torn from the side of engine 2210. Fonc of the equipment in train second No. 91 was derailed, sluhough engine 2210 was considerably damaged on its los; side. The amployed on duty killed was the engineman of trein second To. 31.

## Summary of evidence.

Immediately after the accident the passing-track switch was found to be in a badly damaged condition. The left switch point together with the adjoining rail was over-turned, while the right switch point was bent as was the case with some of the tie bars. The switch was also unlocked with the lock on the ground near the head block tie about 3 or 3 feet from the base of the stand, the switch lever was also found to be out of its notch and moved part way around. The track was torn up for a distance of about 450 feet, beyond which point there were flange marks on the ties extending to where the coach and chair car came to rest. /

Engineman Bickel, of train No. 2, said clear indications were displayed by the automatic signals, that he was unable to see the indication of the statch lamp at the west switch from his side of the engine, and that he noticed

nothing wrong until the braids were applied after the engine had passed the staten, at thich time the speed was about 50 miles an hour. Engineman Dickel reached the staten about 20 minutes after the occurrence of the accident, examined it in contant tith Conductor Martin, and expressed the opinion that the accident was due to the lock not having been in place. Theman Siblish said he was riding on the sear box applicating Tilliamsport, and that he saw the switch lamp at the rest switch displaying a clear indication. His other statements brought out no facts in addition to those siven by Tagineman Biexel.

Conductor Eartin, The was riding in the rear end of the second sleaming car, send that on gesting out of the car after the accident he sam the smeet la pringleying a stop indication. To wont to the switch and had been there about the limits thin tead Brakeman Perrance of train second No. 91 card up with a lantern. Conductor Martin took the lantern, examined the switch, and found it to be demaise substantially as previously rescribed. Conductor Martin sait the statch lever had been poved about two-thirds of the ray aroun, and that then he called the attention of Head Brakeman Torrance to the lock on the ground the latter replied they he had put it in the staten. Conductor Mertin expressed the opinion that the stateh had been elesed but not locked. Playman wank, of train No. 2, said no glanood at the stitch on his may back to flag, an inoticed that the points were open and the smitch lever projecting horizontally from the stand; he did not notice any one in the vicinity of the smitch. Other comployees the examined the switch, found it open, and the lock on the ground, -one Conductor Smith the fas icar mealing on train No. 2, and also the conductor, hear brakeman and rear brakeman of train second No. 91.

The crew of train second No. 91 held an order advising them that train No. 50, due to leave Tilliamsport at 11.21 p.m., Tould wait for them at Tilliamsport until 11.27 p.m. Train second No. 91 arrived at Tilliamsport at 11.20 p.m., but before it could get into clear train No. 50 arrived, was flagged, and pulled ahead between the switches. The passing track not being long enough for train second No. 91, it was recessary to need out on the lain track at the west switch, after which the engine and four cors backed in on a track known as the back-track at the switch joining this it track with the passing track, this being for the purpose of clearing the main track for train No. 2. As a matter of fact, nowever, the rear and of train second No. 91 was still fouling the main track, and it was necessary for engine 2210 to cut off from the four cars, couple to the balance of the train and pull it ahead until the caboose cleared the

main track, this being accomplished nethout the engine fouling the rain track at the west switch. Conductor Helson had arrived at the head and at about the time the engine was being coupled to the train, while Head Brakeman Torrance had gotton off the engine near the main track stitch and had closed it, the Inginiman and fireman coupling the engine to the train. Conductor Helson saw the indication of the struck lamp change from red to thite, and then went to a telephone near the west switch to communicate with the dispatcher and in passing Head Brakeman Torrance he asked the brakeman if he had looked the switch, to thich question the head brakeman replied in the affirmative. On his return from the telephone Conductor Melson noticed that the westbound automatic signal located . near the west statch was displaying a clear indication. Shortly afterward Head Brakeman Torrance told nim that there was a brake beam down on the first of the four cars which had been placed on the back track, the head braheman saying this brake beam came down as the cars were passing over the frog of the back-track switch. Conductor Melson went with the brakeman and they were engaged in removing this brake bean when train No. 2 was derailed. Conductor Melson said he did not go to the passing-track switch until 8 or 10 minutes after the occurrence of the accident, at which time he found the conditions existing as previously mentioned and he said the switch did not have the appearance of having been locked.

Head Brakeman Torrance said he flagged train No. 50, and then handled the main-track switch, opening it for his train to head out on the main track and closing it after the engine and placed the four cars on the back track and returned to its train, although at that time he did not know that it would not be necessary for it again to pull out on the main track in order to inable the rear of the train to get into clear. Head Brokeman Torrance verified Conductor Melson's question about having locked the switch, and also about his reply being in the affirmative, and he said that after the occurrence of the accident he did not go near the switch for about 1 hour and 30 minutes. When questioned in the presence of Conductor Martin, however, he recalled having gone to the switch within a very few minutes after the occurrence of the accident, and having given his lantern to Conductor Partin so that the latter could examine the switch. Head Brakeman Torrance said he did not at any time lay the lock down, and was positive that after closing the switch he had put the lock in the staple, although his statements indicate a doubt in his wind as to whother or not he afterwards snapped the lock. He admitted not having pulled on the lock to make sure it had snapped.

Fireman Hurtt, of train second No. 91, said he had noticed the clear indication of the switch lamp shortly before the arrival of train No. 2, Thile it was red after the accident; he also had noticed that the vestbound automatic signal near the switch was displaying a clear indication shortly before train No. 2 arrived.

Inspection of the precis under the rear truck of the coach before it was rerailed showed that the gauge was correct, and that there was very little wear on either the flanges or the treads. The inspection of the switch stand, which is of the Elliott high-stand type, showed that the tio on Thich the stand was placed was not well bedded in the ballast, while at the end there the stand itself was located the tre rested on the ground. The switch stand was found to be so sensitive to vibration that when closed, Tith the lever securely com in the notch and mithout the lock being in place, it was only necessary to shake the stand a fer times by hand to cause the lever to work out and permit the switch points to move partly open, while the tension was sufficient to throw the lever half way around after it came out of the notch. There was some wear, not excessive, on the sides of the notch, and this undoubtedly facilitated the tendency of the lever to fly out; examination of another switch stand of the same type showed that a similar tendency existed, although to a lesser degrac.

## Conclusions.

This accident was caused by the switch lever of the passing-track switch coming out of its notch and allowing the switch points to open as train No. 2 was passing over the switch.

The evidence indicates that when engine 2210 returned from the back track to the passing track for the purpose of pulling the belance of its train in to clear, Head Brakeman Torrance had gotten off at the main-track switch to close it, after which, in response to a question by Conductor Melson, he indicated to the latter that he had locked the switch. That the switch points were closed until the arrival of train Nol 2 is apparent from the fact that the firsman of each train saw the clear indication displayed by the switch lamp, while the automatic signals also were displaying clear indications. It is clear, however, that the switch was not locked, otherwise the points could not have opened under the train, and it seems apparent that Head Brekeman Torrance merely closed the switch, instead of locking it as required by the rules, and that the

vibration of the engine and first few cars of train No. 2 passing over it at a high rate of speed caused the lever to fly out of its notch, parallel the switch points to open and resulting in the derailment of the train.

Head Brakeman Torrance had been employed as a brakeman on this railway since January 27, 1924, previous to which he had about two months' experience on the New York Central Lines, and about one year's emperience on the Chesapeake & Chio Railway. It the exception of the fireman of train second No. 91, all the other employees involved were experienced men. Hene of these employees had been on they in violation of any of the provisions of the Yours of Service Law.

Pespoctfully,

". P. ROPLAND.

Director.