INTERSTATE COMMERCE COLLISSION

REPORT OF THE DIRLCTOR OF THE BUREAU OF SAFETY IN RE INVESTIGATION OF AN ACCIDENT WHICH COCURRED ON THE OLEVELAND, CINCINNATI, CHICAGO & ST LOUIS RAILVAY AF DIX, IND, ON NOVEMBER 30, 1929.

February 25, 1930.

To the Commission'

On November 30, 1939, there was a need-end collision between a presenger train on a light engine on the Cleveland, Cincinnati, Chicago & St. Louis Railway, at Dix, Ind., which resulted in the death of 1 employee and the injury of 4 employees and 31 passengers

Location and method of operation

This accident occurred on that part of the Chicaro Division, which studends between Cinculnati, Ohio, and Indianabolis, Ind., a distance of 102.6 miles. It is a double-track line bet een Indianaolis and Dix, a distance of 14 miles, on which an outomatic block signal Evster is in use, while on the single-track east of Dix a unual block system is in service. The accident occulled on single track within the lists of Dix interlocking plant at the junction of double and single track line, at a point about 15 feet west of the tower There is an eastbound passing track 4,076 feet in length located east of Dix Toker na south of the main track Approaching the point of accident from either direction the track is tangent for several alles and the view is unresurieted The rade for vestbound trains is 0 33 per cent descending at the point of accident

Dix is an interlocking plant from which the moveents of tiains are controlled from single to double track, and to and from sidings. The home signal governing westbound movements is located 215 feet cast of Dix Tower. It is a three-arm, three-position signal of the under cuadrant type. The normal position of the nome signal is at red for stop A "take-siding" signal and a distant signal are located 4,089 feet and 10,165 feet, respectively, east of Dix Tower. When the home signals are set at stop both of these outlying signals display caution indications for westbound trains.

The weather was clear at the time of the pooldent, which occurred at about 4-34 p.m.

Description

westoound presenter train No 5 consisted of one contration mail and baggage car, one combination baggage car and coach, one copen, and two Pullman perfor cars, in the order nomed, nouled by engine 6410, and was in charge of Conductor Smith and Engineman Kern. This train departed from Cincinnati at 3 05 p m, on time, pressed Fairland, the last open office, 6 3 miles east of Dix at 4 28 c.m., 6 minutes late, passed the vestbound home signal in the stop position and colliced while traveling at a speed estimrated to have been between 30 and 35 miles per hour

Light englie 167 was in charge of Engineman Thomoson and Fireman Lynch. This engine was just out of the snops at Beech Grove, 3.1 miles west of Dix, and was being broken in between the shops and Dix. It departed from Beech Grove at 4 30 p m and on arriving at Dix the route was set for a movement to the eastbound siding which diverges from single track at the toker, whis engine hid just reached the single track at the toker and had come practically to a stop when it was struck by train No. 5

The force of the impact drove engine 167 pack a distance of about 175 feet where it came to rest across the eastbound and westbound main tracks. The boile, of engine 3410 was torn from its frame, both engines were considerably damaged. None of the equipment of train No. 5 was derailed. The employee killed was the engine-man of train No. 5.

Surmary of evidence

Fireman Smith, of train No 5, stated that as when train was approaching the "take-siding" signal east of Dix Tower Engineman Kern reduced the speed of the train to about 30 or 35 miles per hour, and he did not know whether or not the prakes were released after this application as ne was endeavoring to get the aspect of the home signal - Fireman Smith asked Engineman Kech if he could see the home signal and the engineman realicd anat ne could not. The view was obstructed by smore and steam blowing over the track from engine 6169 which was standing on the eastbound passing track When the 10 e signal did become visible Fire ian Suith called "all red" to the engineman and told him that he was going right into engine 167 Fireman Smith jumped off the engine immediately and as he did so he saw the engine an place the brake value in emergency position. Both outlying signals approaching this tower showed caution indications and their indications were called.

Conductor Smith, of train No 5, stated that the air brakes had been tested at Concinnati, and no trouble has experienced with the air brokes on route. The speed had been reduced to about 30 miles our nour on approaching Dix Conductor Smith said ne next felt the air bickes applied in emergency, the accident occurring almost indicately. He afterward observed smoke and stean from engine 6169 on the eastbound siding drifting over the track rising to about the height of the signals. The statements of Brakeman Arnold and Baggageman Teagarden correborated those of the conductor as to the operation of the air brakes and as to the speed of the timin at the time of the accident

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Engineman Thompson, of light engine 167, stated that when he first saw train No. 5 it was between the take-siding signal and the hold signal, and he had just brought his train to a stop when struck by that train. He saw that the signals governing the westbound movements were red, but he did not observe any smoke or steam blowing from engine 6169 on the eastbound siding that would obscure the view had by the crow of a westbound train.

Fireman Lynch, of light engine 167, stated that he light observed train No 5 van ant was in the vicinity of the east end of the eastbound siding, approximately 4,500 feet east of the tower . He noticed steam blowing from the engine on the siding but could not say whether it yould obscure the view of envine draw of train No. 5. Fireman Lynch said that he thought their engine had come producally to a stop when the collision occurred.

Engineman Leppert, of engine 6169, stated that his engine had been standing at a joint about 150 feet east of the home signal for about 10 or 15 minutes when train No 5 passed He stated his engine had not been fired for 30 minutes prior to that the and that the stack was free from black smoke, the blower was on, slightly open. The statements of Fireman Wehrel, of engine 6169, corroborated those of Engineman Leopert.

Operator Clements who vas on duty at Dix To er at the time of the accident stated that light engine 167 was reported in the block between Beech Grove and Dix at 4 20 p.m. He then lined the roule for engine 167 to enter the eastbound siding and at that time engine 167 vas in the circuit about 2 miles west of Acton At 4.28 p m he received a report from Fairland that train No. 5 had entered the block and he judged that the light engine was then near Acton, 1 mile west of Dix Tower. He did not deem it advisable under the circumstances to change the route as such a move fight introduce couplications. He stated that he could see the appropriating train a distance of about 2 miles - Engine 6169, also being broken in, was standing east of the home signal on the eastbound siding and it was emitting smoke and steam which he thought obscured the home signal indications to westbound trains. He noted that train No. 5 was approaching rapidly and as it neared it became obscured by smoke and steam, he then raised his window and looked out and saw the train emerge as from behind a smoke screen.

Road Foreman of Engines Davis stated that after the occurrence of the accident he examined the interior of the cab and its appurtenances and found the independent brake value in quick-action position, the automatic in emergency, the reverse lever in the running notch and the throttle and sanders closed An inspection of the locomotive wheels developed spots on the tires ranging from the size of a nickel to a quarter and from 4 to 6 inches apart, these were burned blue, indicating a heavy brake application.

Conclusions

This accident was caused by the failure of Engineman Kern, of train No. 5, to properly control the speel of his train approaching a signal in the stop position and to stop before passing that signal.

The evidence indicates that the home signal could not be seen by either the engineman or the fireman, duc to smoke and steam blowing across the track from an engine standing on the eastbound siding a short distance east of the signal. In view of this fact, nowever, Engineman Kern made no attempt to further reduce the speed of his train and when his train emerged from the smoke and steam and the signal was seen in the stop position he was unable to stop in time to avert the accident. Both the distant signal and the "take-siding" signal were in the caution position, and it was incu bent upon Engineman Kern to operate his train under control, especially when his view of the home signal was obstructed.

All of the employees involved were experienced inch and at the time of the accident none of them had been on duty in violation of any of the nours of service laws.

Respectfully submitted,

W. P. BORLAND,

Director.