IN RE INVESTIGATION OF AN ACCIDENT WHICH OCCURRED ON THE ILLINOIS CENTRAL RAILROAD NEAR VILLA RIDGE, ILL., ON DECEMBER 16, 1918.

James y 24, 1919.

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On December 16, 1918, there was a rear-end collision between two light engines on the Illinois Central Railroad near Villa Ridge, Ill., resulting in the death of 1 employee and injury of 6 employees. After investigation the Chief of the Bureau of Safety reports as follows:

The Controlin District of the St. Louis Division, on which this accident occurred is a double-track line extending between Centralia and Mounds, Ill., a distance of 10%. Ol miles over which train coverents are governed by time table, train orders and an automatic block signal system.

This equident occurred about three-quarters of a mile south of Villa Ridgo, the first station north of Mounds, and 3.3 miles distant therefree. Approaching the point of accident from the north and beginning at mile post 363, just north of Villa Ridge station, there is a 1-degree curve to the right about 1750 feet long followed by a tangent about 970 feet long to a 3-degree 30 minute curve to the left; the collision occurred on this curve about 1160 feet from its north end. Approaching the point of accident from the south there is a 1-degree 54-minute curve to the left 3130 feet long, followed by a tangent 770 feet long, leading to the 3-degree 30-minute curve above mentioned, 300 feet from the south end of which the accident occurred.

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proceeding south, the grade varies from . 30% to .670% ascending for a distance of approximately a mile to the mumit of the ridge; after passing the mumit of the ridge the grade is continuously decompling to the north crossover of Mounda Yard. Holper on inc service is maintained for the purpose of assisting northbound trains out of Mounda to Villa Ridge, the gractice being for helper engines to out off at Villa Ridge, cross over and return to Hounds on the southbound track.

The anginer involved in this accident were No. 1759 and No. 016. No. 1759 was a real engine hauling train No. 71. a southbound time froight from Centralia to Hounda. No. 916 was a real engine in service as a helper or pusher out of Hounds.

Train No. 71, consisting of engine 1759, 54 leaded and 17 empty care and a caboose, left Centralia, at 4 p.m., in charge of Centrator and a caboose, left Centralia, at 4 p.m., in charge of Centrator and Engineeran Jones. On account of a broken rail this train was flagged near Pulaski, 4 miles north of Villa Ridge. Pulling over the broken rail slowly prevented the usual run for the hill; the train stalled near Villa Ridge, and it became necessary to double. The first 40 care were out of and taken into Hounds, the rear end of the train being left on the southbound main track with the head car 35 or 30 car lengths north of the crossover located on the main track couth of Villa Ridge station. This crossover is the one requirally used by the crows on helper engines to crossover to the southbound main and return to Hounds after helping northbound trains up the hill to Villa Ridge.

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After engine 1759 had dispered of the head and of its train, it backed out on to the southbound main track and started north to return for the rear and of its train and at 1.10 a.m., while nowing backwards against the current of traffic at a speed estimated by the area at 5 or 10 miles on hour, it collided with engine No. 516.

Engineers Real, left Mounds Yard at 12.35 a.m., with instructions as follows:

Assist Extra 1761 to Villa Ridge and return to Mounds for another topsage train.

Engine No. 016, after showing extra 1761 to 7111a Ridge as instructed, pucked through the argameter to return to Houses on the southbound main trock, and at 1.10 a.m., chile backing at a speed estimated to have been 5 or 6 miles on hour collided with engine No. 1760. The weather at the time was clear and mild, and it was bright moralight.

The engineers on No. 916 was killed. Both engines remained on the rails. The tender of engine 516 was driven into the cab which can of moden construction, and the est was totally described. Its tender and frame were practically destroyed; the trucks were broken loose from the tender and driven up under the cab. The tender of engine 1750 was driven into the cab, which, being of steel construction, was not badly langual. The tender and frame were bent to seem extent As was the engine frame under the cab. The force of the collision drove engine 616 up grade for a distance of 500 feet. Take

fact and the fact that the dampe was principally metained by this engine seems complisive evidence that the rate of epoul of angine 1755 was much greater than the estimate given.

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Combustor Exister on train No. 71, engine 1780, stated that then his train was flagred by track con just worth of Pulmaki, the first station north of Villa Ridge, the signal men told his there was a broken rail, but suggested that it would be all right for the train to rull alonly over it. No. 71 did so was stalled near Villa Ridge. Communtor Esister abated that he out off forty care and took them to Mounta. leaving the rest of his train standing north of the eressover, the head our of the rear portion being about 35 or 30 our lengths north of the orospover and there being no light on the head and of the rear portion. Indian 1780 was returning on the ever track, the southbound main, for the rear end of the train don it collided with purher engine 916. Conductor Keistar stated he did not know that a northbound train was being pushow out of Mannas wills be resegrated; swey the head and of his train, but he did know it was frequently done and in onese of this hinl, is in the prestice for the purhar to use the southbound track to return to Hounda. He stated that he took no processions to protest this processes at Villa Ridge through water, the helper returns on the southbourd track. He said that he had made this double at various times and had never fouled the crossover with a car nor left a flagmen to protect 1t. He said that midde backing up from Housin toward the rear of the truin, he was not riding where he could see the truck,

but estimated the appeal of the engine at about eight or ten miles on hour. He said there was a red light on the tender of engine 1758 and the deck light in the sab was burning.

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Engineers Jones on No. 71, engine 1759, stated that his train was flagged by trackeen south of Pulaski and later it stalled on Villa Ridge hill. The train was out in two and the head end taken to Hounds Yard and put way. A red light was placed on the rear of the tender, the light in the cab was burnin, on: the engine was booking northward on the south-bound main track to get the rear of its train show it collided with pusher 916. The engineers stated that he knew that no flagges but been left at the crossover and no care were left fouling it. He said that the speed of his engine was between six and ten miles an hour at the time of the collision, and stated that he new the northbound train with engine 916 as a pusher leaving Kounds as he was bringing in the head end of his train.

Head Brakeman Blair on No. 71 stated that after his train stalled at Villa Ridge he rode the head end into Mounds in order to throw the switches. The head end was put away and engine 1750 was returning light for the rest of the train when the collision occurred. This engine was backing northward on the southbound sain track. The deck light in the cab was burning and there was a red light on the rear end. The brokeman stated that he had doubled the hill several times and never left any cars to foul the grossover. He stated that just before the collision occurred he was looking back, but say nothing of the approaching engine.

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Conductor Baldwin on engine 916 stated that his engine had shoved extra 1761 into Villa Ridge, and had instructions to return to bounds for eacther train. He said that at the programme he noticed particularly to see if anythin was coming up the contibound using but did not look Extra 1759 was being doubled into Mounds, but northward. he could not tell where they had loft the rear of their train. It was too for for him to see and everything looked clear. He etated that his healitght on the rear of the tender was burning. After the crossover was lined up and the engine etarted back the conductor was on the firemen's side standing in the dack with his hand on the reverse lever. The engine was backing at a appeal of about six wiles an hour. The fireven said that the horm signal was pleas, but did not rention the coution algual. It wall that he took the firewar word about the signal and did not himself look. They know nothing of the approach of engine 1750 until the two engines collided.

The front and rear onds of his engine were burning and in good order. He said that he did not see any conthbound trains between Mounds and Villa Ridge, that when he out off at Villa Ridge he looked north and could see nothing coming south and nothing of the rear end of No. 71. The lower arm of the signal showed yellow, but he did not mention this fact. He saw no sign of an opposing engine backing up.

This socialent was caused by ongine 1750 of train No. 71 being operated against the current of traffic without su-

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thority and without protection, in violation of the rules, for which Conductor Kalster and Engineers Jones were responsible.

hiles 105, 106 and D-151 read as follows:

- 105. Both conductors and engineers are responsible for the safety of their trains, and, under conditions not provided for by the rules, must take every production for their protection.
- 106. In all games of doubt or uncertainty the safe course must be taken and no risks sum.

D-151. Trains must keep to the right, unless otherwise provided.

D-15A. Then a train crosses over to, or obstructs the other track, unless otherwise provided it must first be protected as prescribed by Rule 89 in both directions on that track.

These rules were not observed since the conductor and engineran on 1759 Abl not take every presention to protect their engine, they did run a rick, did not keep to the right, and when returning northward on the southbound track did not have flagging protection. Had they taken the presention of fouling the crossover with cars or left a flaggen at the excession over to prevent any other train from getting between their engine and rear end of their train, the accident would not have happened. Had Rule D-131 been observed, that is, had engine 1759 returned for its rear end by way of the northbound track and run with the current of traffic, this collision could have been avoided.

From the statement of Firemen Bour of angine 216 that the lower arm of the signal south of Villa Ridge was in the contion position, it appears that engine 1750 had not

at that time entered the courbern end of the block; this also appears to be quite probable, as the collision occurred about midway of the block. Red Fireman Bour called attention to the courtion signal instead of revely calling the top are clear, a better lookout might have been saintsined and the impositing danger discovered.

All of the employees involved in this accident were experienced men. The train orew on No. 71, engine 1759, had been on duty 9 hours and 10 minutes after being off duty for 16 names and 40 minutes; the engine crew had been on duty the same length of time after 14 hours and 30 minutes off duty. The crew on engine 916 had been on duty 1 hour and 5 minutes, the engineeran having had 16 hours and 4 minutes, the fireway the engineeran having had 16 hours and 4 minutes, the fireway 55 hours and 56 minutes and the conductor 13 hours and 15 minutes of duty (rior to beginning this period of service.

A.H.G.