IN BY INVICTORISM OF AN ACCIDENT WHICH OCCURSED ON THE CRICAGO, BURLINGTON & JUINCY RAILSOAD NEER FARLVILLE, ILLINGIS, ON SEPT 64398 16, 1917.

Octob r 31, 1917.

On Deptember 16, 1917, there was a rear-end collision between two esabound freight trains on the Aurora Fivision of the Chicago, Burlington & unney Railredd mear Varlville, Illinois, resulting in the death of 7 persons and the injury of 10 persons. After investigation of this a cident, the Chief of the Bureau of Safety reports as follows:

The Aurora Division extends between Aurora and Galesburg. Illinois, a distance of 125 miles. It is a double-track line, and between Aurora and Mandote, a distance of 15 miles, it is equipped with automatic block signals of the two-position, lower-quadrant type. It was upon this portion of the road about 10 miles east of Mandote th t the absident occurred.

The trains involved were extras 5006 and 5307, the former composed of 60 cars of live stock one wooden coach containing stock a retakers, and a caboose; and the latter composed of 67 cars of dead freight and a caboose. \*\* Ta 5.06 as hauled by engine 5006 and was in charge of Conductor Fisher and Engineman Fakdahl, and extra 5307 was hauled by engine 5307 and as in charge of Conductor Carolan and facineman Carlson.

Fitre 5307 left Galerburg at 12.45 p. m., and arrived at Wendote, 80 miles east of Galesburg, at 10.00 p. m. At this point it was overtaken and passed by extra 5006, which train left Galesburg at 6.25 p. m. and arrived at Mendots at 10.05 p. m. Extra 5006 left Wendote at 10.33 p. m. and arrived at Marlville about 10.55 p. m., at which point it was stormed by an extra sheed which was setting out its train at fariville. While standing at this point with its right and about 200 feet eart of an automatic signal is the denger position, it was struck by extra 5307 remains at a speed of 23 miles per hour as indicated by the speed recorder on engine 5307. The collision occurred semetime battern 11 and 11:10 p. m. The night was dark but the weeth a was clear.

The force of the collision tolescoped the cubose and end wooden coach on the rear end of extra 500%, completely

demolishing them. The two reer cars of stock were dereiled and turned over to the south of the track, and the 6th and 7th cars from the rear end of the train were dereiled but remained upright on the roadway. Ensine 5307 was entirely dereiled but suffered comparatively little damage. Ten cars in the train of extra 5307 were demolished, due to buckling of the train about 25 cars back of the engine.

Approaching the point of the secident from the best, there is a slight descending grade for about one mile before reaching it and the track is straight for a distance of 6 miles; there is a fill of about 4 feet in depth where the accident occurred. There as nothing to obscure the view of the engineman of extra 5307. The automatic signal 200 feet in the rear of train 5006 was in the danger position and the distant signal located 2640 feet further wast indicated caution. These signals are located on bridges extending over both tracks, and are plainly to be a en for a long distance.

Pagineman Carlson of extre \$307 stated that his train followed extra 5006 out of Mendota about 6 or 7 minutes after that train left, and that they were still in sight when he pulled out. After leaving Mendots, and until his train reached Maridon, a station about 5 miles further east, enginemen Carlson seld that all the autometic signals passed were in the clear mosition. He did not call sny of these signals to the fireman, nor the fireman to him, and had no conversation with the firmen or brakeman relative to the signals. He stated that the rear lights of extra 5006 were out of sight before he reached K riden. and that he was fully awake when persing through that stition, as he had some conversation with the fireman at that time; he did not call the position of signals to him, however, nor say enything to him about the rules reuiring that to be done. He said he did not call the signels because the brikeman was an experienced man who was familiar - ith the sianels, and the fir man was new. and as he was heving some trouble with his fire he did not went to bother him. After pensing Moriden, Enginemen Carlson said that he remembered whistlin. for one road crossing, efter which he fell asleep, and did not awaken until he saw the rear lights of extra 5006 about 10 cars wherd of him; he immediately applied the air brokes in emergency and jumped. "e stated that just as he woke up he heard either the fireman or the br keman say something. and about the time he applied the brokes, they both jumped. He said that his train was running 20 or 22 miles per hour, and his engine was working stoom at the time he woke up: that his eir brakes were in good working condition, and

if he had been flagged, or had been awake 40 cer lengths from the rear end of the stock extra, he could have stopped his train in time to have avoided the collision. Previous to going out on this trip Engineman Varieon had been off duty for a trip on account of a bad cold. He stated that this cold in his head grace! his to feel droway, but he had never before had eleep take hold of his as it did then; he thought that his drowsiness might have been due to some tablets ne took to relieve his cold. These tablets were obtained at a drug store upon the recommendation of the druggist. Engineman Carison stated that he did not have what the, contained but that he took six or seven of these tablets after leaving Galesdurg, the last two on arrival at Mendots.

Hook Brekenst Michaen, who were on the fireman's seet box stated that after leaving Mondota all the caution signals between there and the point of accident were against them and that all home elevate were clear. After passing Meriden be did not tell with engineers "erison nor did he notice Carlson earing anything to the fireman. He stated that he was wine evene and fully cognizent of the fact that they were following eatre 5006. We numbered that they passed three distant signals set at opution but it hat call Engineers Carlson's attention to them; neither could be remember whether or not laginesses Carlson whis led for road crossings. He said that when his train reache: a point 15 or 20 dar lengths west of the danger signal at the rear of trein 5000 he first noticed the flagman who was acout to ear lengths from the rear and of the train finguing with red and white lights and he veited a minute before calling Engineers Carlson's ettention to the flag. He sold that businessa Cerlson was sitting on the sest in his regular position, and while he did not answer the fless he resumed that the engineess say it and would sto: before colliding with the train sheed. Then he unde up his sind that his train would not stop in time, he called out to Engineen Carlson and told the firemen that the trains were going to hit and to jump off. He himself jumped first and is positive in his statement that the flagmen of train 6000 was not more than 10 car lengths from the reer end of his train at the time. Brakean Hlowen said that at the point between meriden and pariville his train passed a signal with the light not purning. The position of the blade on this signal inlicated clear, and he did not call the engineman's attention to the absence of the light, sithough it should have been regarded as a stop signal under the rules. He stated that he could see the rear lights on extra 5006 practicelly all the way from Meriden, but although he was fully ewake and cognizant of what was taking place he did not give any warning to the enginessa nor call his attention to the train sheed until he was within about 16 car lengths from the danger signal, at which time his trein was running about 20 siles per hour and the engine was atill working A \$ 0 分級。

Firemen Long of engine 5307 had had very little experience and was making his first trip on this division. He had no knowledge of the operation of automatic block signals. He stated that he remained on the deck of the engine after leaving Mendota and after passing Meriden did not have any conversation with Engineman Carlson or pay any particular ettention to him. He could not say whether buginessn Carlson whistled for road crossings or stations. He did not a tice the markers of extra 5000 nor the position of any of the automatic signals efter leaving Mendota and had no intimation of impending denger until Brakeman Hickmen called to him that the train could not stor before hitting extra 5705 and told him to jump off. He said that they were about 2 telegraph poles from the rear end of 5006 when he alighted on the eastbound track and that the brokeman of the train whead was not more then ? car lengths west of him.

Conductor Figher of extra 5000 stated that he rose in the body of the caboose after leaving Mendots and that Brakeman Johnson rode in the cupols. He said that he was fully sware that extra 5509 was following them out of Mendote and that their electric head light was in view at all times. The speed of his train was reduced to about 8 or 10 miles an hour during the last sile or two prior to stopping at Earlville, and Conductor Fisher stated that Frakemen Johnson remarked to him that extra 5397 was following pretty close, but he did not dro off a fusee or make any effort to protect his train between Heriden and the point of accident. After his train came to a stop be said that Flormer Johnson went back immediately and a minute or two later he could see him from the rear of the caboose at a distance of 15 or 20 car lengths running back and thought that possibly be jot back or for as 55 or 30 car linguis. noted that the engine of 5007 was still working steam and realized he was not going to stop. He at once entered the caboose end cosch and werned the passengers to get out as quickly as possible. He stated that his train stopped at 11.07 and 1t was his judgment that the collision occurred at 11.11 or 11.12 D.s.

Flagman Johnson of extra 5006 etated that he rode in the cupols of the caboose but did not notice the position of the automatic signals in advance of his engine before reaching them. He stated that his train slowed up about 2 miles before it stopped and inlited on into Estiville. He looked back before stopping at fariville and saw the electric head light of extra 5507 following his train. It did not occur to his that he should have lighted and dropped a fuses when his train was going to stop; he thought the train sheed would pull into the siding and get out of the way and his train would keep right on going. When his train stopped he stated that he left the way-car to flag with a red and white light and fusees and torpedoes in his possession and said that he was about 25 car

lengths back of the way-car when the engine of train 5207 passed him. He had not lighted a fusee nor out down any torpedoes. He said that his train was about under the signal bridge when he started back and when he got back 7 or 8 car lengths he noticed that rain 5277 was coming pratty fast and he wien started to run and kept on running back flagging with his lantern until he got within about 8 or 10 feet if the engine men he got off the truck out of the way. He edulated that he was to such as the block signal for the protection of the rese and of his train and did in I taken it was necessary to the port ton at or, or also similted that if he had similar running agok isseciately he would have been sole to get back as it is con leaster. The tabuent occurred to bis that he should have placed a town, and the mill but the train was too chase to aim to permit that to be done. Engine 5007 was vorking steam of the time it passed him end he could not may whether the brokes were southed before the collision courred or ast, se thou bt the engire was running a set list or 20 alles an hour when tresped him. We similted that the flagvilla rules of the compony were just so necessory to be obeyed in block signal territory so on cortions of the core where there airs as also where it thought all the wills then is train was not soil & to stir as he expected the trill niese to take the siding of wet out of the way and also do a, ad upon the fact that the following train was a train of deco fraight with ration a close schoolate and did not realize that there was any demon write it was the late.

windingson addition of train 5000 stated that after leaving tenuate ne ren glong at a fairly good rate of ereed until he at an close to Mariville and than aloved dawn and wes finally required to eto: on nocount of the train abend of bla. signals between weriden and cariville were alsor until he got to the distort simpl sproposing carlyills. This sould was in the ceution position and the home signal on the orlige immediately west of where the socident occurred was red. light on a speak between eriden and perivials was not luraing but he did not stop for it as recuired by rule. solu die in des l'ingred di lie exter stess dut ûlê unt remember whether or not be whistled out a flet when his train stopped and thinks his trein at 60 about 5 or 8 sinutes previous to the collision. Chainemen weakhi stated that the time him train stored at mariville was 10.00. He did aut know expetly when time the accident happened but thought stant 11 o'clock.

been standing at warlville about 4 or 5 minutes before the acoident occurred. He stated that the engineers lid of writtle out a fing when his train stopped and did not wristle for barlville station because they were following another train so closely.

Conductor Carolan of train \$307 states that he rode in the caboome of his train and does not know that her Engineran Carlson inistled approaching stations or road crossings and did not think he could hear the waistle of that distance from the orgine and could not notice the position of the automatic sign is sheed of the engine. He noticed the first intermediate signal sect of Espiville when his cabbone possed it and the light was out. He understood that the rules required a signal with the light out to be regarded as a danger signal but lid not know whether the engineers noted the light out or not. He wold that he figured that the light dight bove some out after the outlinesen not us. He said that the first intimation he had of the accident was when the slack on the train case book here and he and the brekenen not down on the floor of the caboose and found that the air was all gone. He immediately looked at his watth and it was 11.05 or 11.06 and recerred that evidently their train had gotton into somebody. He made his way to the mend and as eulokly as pussible and found that his train had callided with train 5006. He did not see asything of the extra shead of him efter leaving Mendots brevious to the scattent. In his jumpers his train and province of eyen, of about 10 Miles per hour between Miendote and harlyille.

Brakessa Burkhelter of extra 5507 stated that he rode in the supole of the Caboose after the train left handots. Se did not notice the signals, and porning unusual occurred to attract his attention until the sudden stop at Earlville, due to an emergency spalication of the brakes followed by the collision. The shock three his out of the curols onto the floor or the cabooks; he said he looked at his watch after ploking himself up and lighting lights, 2 or 3 minutes after the shock, and it has then 11.00. He shoughs the accident occurred about 11.02.OR 11.05. He said that he soon as they get a relighted intuitor the collision he took his Ilabell opplyment and Conductor Carolan went towards the head out.

The direct cause of this accident was the failure of Raginesas Carlson of extra 5507 to occave and be governed by the indication of signals effective the normal ment of his train.

Contributing very materially to the accident was the feilure of Flagman Johnson of extra 5006 properly to red text the rear end of his train and of Condustor Fisher to require this to be done. Had Flagman Johnson gone back immediately after his train came to a stop and put down a torpedo, as he should have done, there can be no found, that Engineers Carlson would have been assessed in the train before the collision;

Enginesses Corlson stated that if he had been swake 40 car lengths from the rear end of extra 5006 he could have stopped his train in time to prevent the collision. When his train slowed down a proceding fariville Flagman Johnson should have dropped off these, as the fulst require, and he should have placed a torpedo far enough in the rear of his train to insure full protection. He admitted his failure to comply with the rules, and so-knowledged that he was depending on the submatic signals to protect his train. Conducted Fisher was fully cognizent of "is men Johnson's neglect to perform his duty, and should have taken necessars to insure that his train was fully protected.

Contribution also to the cooldest was the failure of Brateman Michaen of extra 5507 to arouse Engineman Carleon and see that he took order despire to other his trein. If Brokeren Blokman and and in passes flow of his senses, as he incists he was, his failure to make oure that Ingineran Carlson was awaks in Inexcusable. Brakeman Hickman was a promotes conductor, yell was thereoughly familiar with the roul, and with all retters pertaining to the sefe operation of his train; yet he adults that be made no effort to call Engineess Parlace's attontion to the danger signal in the rear of the standing train or to the lights on the rear and if ther train. We also saw the flagman of extre 1006, and noted that Inwineman Carlson failed to answer his step signsls, yet he permitted the flagman to give emergency stop signals for a period of one minute, according to his own statement. before oalling the engineers a ottentim to it, and did not oall to him until the engine was about 15 or . O our lengths from the danger signal, calls still working steem and running et least fo miles er hour.

This investigation disclosed an extremely lay observance of rules on this division of the Juniage, Burlington & Guincy Bailroad. Jule 54 of the Book of Fules of this railroad requires enginemen and firemen when practicable" to communicate to each other the indications of all signals affecting the movement of their trains. This rule was not observed by the enginemen Wakdahl failed to whistle out a flag when his train atopyed. Keither was any attention paid to an unlighted signal between Meriden and Sariville, although it was observed by Engineman Eakdahl of extra 5006 and Conductor Carolan and Brakeman Hickman of extra 5007, and the rules required that it should be observed as a stop signal, that being its most restrictive indication.

Enginemen Carlson entered the service of the Chicago, Burlington & Quincy Railroad as a firemen in 1900 and was promoted to enginemen in August, 1906. He was discharged for burning erown sheets on an engine in December, 1907, and reinstated as firemen in July, 1908, and again promoted to enginemen in October, 1909. He was sensured for carelessness in connection with a rear and collision in Galesburg Yard on February 15, 1914, and seutioned by the General Superintendent, since which date his recordain clear.

Brakesan Hickman was employed as a brakesan on Jenuary 20, 1906, and was promoted to freight conductor on October 37, 1912. His record is clear.

Flagman Johnson was employed as a brakeman on February 6, 1906, and was promoted to freight conductor on Cetober 30, 1912. His record is good.

Conductor Fisher was employed as a brakeman on August 26, 1887, and was promoted to conductor on April 6, 1907. On October 21, 1910, he was consured for feilure to observe the requirements of the flagging rule, resulting in a collision. Otherwise his record is good.

At the time of the accident the crew of extra 5307 had been on duty about 11 hours and the crew of extra 5006 had been on duty about 5 hours.