April 14, 1314.

IN RE INVESTIGATION OF ACCIDENT ON THE GLEVELAND, CINCINNATI, CHICAGO & ST. LOUIS FAILWAY AT BRANT TOWER, IND., ON MARCH 22, 1914.

On March 22, 1914, there was a derailment of a freight train on the Glaveland, Cincinnati, Chicago & St. Louis Railway at Brant Tower, near Indianapolis, Ind., which resulted in the death of the firemen and head brakemen, and the injury of five employees. After investigation of this accident the Chief Inspector of Safety Appliances reports as follows:

Castbound entra 6830 consisted of 37 loaded cars and 2 cabooses, hauled by loaceative No. 6830, and was in charge of Conductor Johnson and Engineman Woolume. It left Kankakes, Ill., at 11.18 a. m., passed Angusta, the last open telegraph office and 7.5 miles west of Brant Tower, at 10.43 p. m., and was derailed at the derail immediately west of the home signal at the interlocking plant at Brant Tower at 10.50 p.m., having made the run from Augusta to Brant at an average speed of 62.5 miles per hour.

The locomotive and il cars were devailed and damaged more or less, 5 of the cars being destroyed. Three other cars were also damaged, while the track was torn up for a distance of about 170 feet.

This part of the Chicago Division of the Rig Four Railway io a double-track line, and trains are operated by train orders protected by the manuel block signal system. The tracks of the Chicago Division connect with the single track main line of the Peoria & Eastern Division at Brant Tower. Beginning at the switch where the two main lines connect, and extending westerly for a distance of 2,802 feet, the tracks of the Chicago Division are on a curve of 2000. This curve leads to the left for eactbound trains. West of this curve the track is straight for several miles, and is on a slightly descending grads. The signals and evitabes in the vicinity of Brant Tower are governed by an electrically operated interlocking plant, so arranged that when the tracks governed by it are being used either by a train on the Peoria & Eastern Division, or by a car on the electric line which crosses the Chicago Division Just west of the tower, the distant and home signals on the Chicago Division, as well as the derail, are set against any eastbound train which may be approaching and cannot be eleared for that train until the train or ear using the tracks of the interlocking plant has passed. The home signal is located at a point 1,459 feet west of the junction of the two divisions, while the distant signal is 3,250 feet

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west of the home signal. The derail at which the accident occurred is 56 feet east of the home signal. On account of being on the outside of the curve an engineers can see the home signal a distance of only 500 feet with his head out of the cab window, although by leaning out of the window it is possible to see the signal a distance of about 1,100 feet. On the firements side of the engine, however, the home signal can be seen a distance of about 2,000 feet. On account of the track being straight the distant signal can be seen from a point about 2 miles every. At the time of the accident a freight train on the Peoria & Eastern Division was pulling through the crossover in a westerly direction, on account of which the home and distant signals were set against extra 6800, while the derail was also set against that train. The weather at the time was clear.

Dignalment Frank, on duty at Brant Tower at the time of the derailment, said that his first knowledge of anything wrong was when he found the interlocking out of order. Just after this, Engineman Woolume came into the office and said that his train had been wrocked. He asked the engineman if he had not seen the freight train on the Peoria & Eastern Division and the engineman replied that he had. Engineman Woolume might have meant that he caw that train after the accident. He then asked him why he did not stop, and he replied that the firemen and head brakeman had said that the home signal was olear.

Interviewed, and on account of his condition could not make an extended statement. He said, however, that he saw the distant signal set in the caution position and made an application of the air brakes, reducing the speed of his train to about 15 or 20 miles per hour, which was the speed at which it was running when it passed the home signal and ran off the dorail. He further stated that he asked the fireman and head brakemen about the position of the home signal and was told that it was clear. He then inquired about the position of the train order board, but received no answer from them. He then looked up and saw the home signal in the stop position, at which time he was right under it.

Conductor Johnson and Rear Brakemen Myers were seated at a table in the caboose at the time of the dereilment. Sonductor Johnson said that he did not notice any application of the brakes, but thought the train slowed up a libtle before passing the water tank located about a quarter of a mile west of the distant signal. When it passed this tank he thought it was running at a speed of about 25 or 30 miles per hour. The rear brakemen, as well as Brakemen Martin, who was dead-heading, stated that he did not notice any application of the brakes; the first information these men having of anything wrong was when they felt the shock of the dereilment.

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This accident was caused by the fallure of Enginemen Woolung properly to observe and obey the interlocking signal indications. While he stated that the speed of his train approaching Brant Tower was about 18 or 20 miles per hour, yet from the damege caused by the derailment, from the statement of the conductor that it was traveling at a speed of from 25 to 30 miles per hour, and from the fact that the average speed of the train for over 7 miles had been more than 60 miles per hour, it is believed that the speed was very much in excess of the rate of 18 or 20 miles per hour specified by Enginees woolung. On account of the death of the fireman and head brakenan there is no way of verifying the statement of the enginesan that he was informed that the home signal was set in the clear position. Regardless of this fact, however, he knew that the distant signal was set at contion and had he made the effort werranted under the eircumstances, he could have seen the home signal a distance of about 1,100 feet, which would have enabled him to stop his train had its speed been properly reduced when he eaw the distant signal set in the caution position.

Engineman Woolums was employeed as a fireman in 1902, and in December, 1905, passed the examination for promotion to engineman. His service record as furnished by the Big Four Asilway showed that he had been suspended on five occasions for responsibility for collisions, on one occasion for running by a stop signal, and on one occasion for running over track undergoing repairs. At the time of the derailment he had been on duty 12 hours and 5 minutes, after a period off duty of 8 hours and 50 minutes.