No. 154

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In ro Investigation of Accident on the Great Northern Bailway, near Allouez, Wis., on July 31, 1913.

On July 31, 1913, there was a collision between a switching train and some ore cars which were being unloaded on the docks of the Great Northern Railway at Allouez, Wis., resulting in the docth of 2 employees and the injury of 6 employees.

After investigation of this accident, the Chief Inspector of Safety Appliances submits the following report:

At the place where the accident occurred the tracks of the Great Northern Railway are laid on trestle work extending out into Lake Superior; the tracks are about 75 feet above the water line. Approaching the treatle from the south there are two lead tracks kno mas the east and west leads, one for movements to the dock and one for movements away from the dock. Branching off from these leads in fan share are several docks, and there are a number of tracks on each dock, an interlocking plant operated from a tower on the trestle governing the movements of trains to the several docks. After passing this to or, however, there are several crossovers which are not connected with the interlocking plant but are operated manually when movements are made from one track to another on the outer end of the trestle.

The dock on which this serident occurred was dock No. 4, and was the one furtherest east of this group. On this dock there are several parallel arches numbered beginning at the west side 1, 2, 4, 5 and 6, respectively. At might the work of placing amunicading cars on these docks is directed by an assistant superintendent, a general foreman, a dock foreman for the dock, a dump foreman, and a switch foreman in charge of a directed by a dock, a dump foreman, and engine pushes drags of loaned o reast on the dock and places them over pockets into thich the one is unloaded on the different tracks as directed by the general forem n and the dock foreman. When cars are to be placed on a track and led cars are standing this is accomplished by pushing these to he cars are standing this is accomplished by pushing these to he cars are standing this is

On the night of this as a one engine No. 1138, with switch foreman Trede in charge, in had 12 leaded cars up on the treatle and placed 21 of them on tr of 10. 5. The engine and 11 cars remaining were then broked ont on to the east lead track and erossed ever to the rest lead track and erossed ever to the rest lead track no. 2. At this point there is a curve toward the rest in the lead track so that it is impossible for the enginest the see where he was guilling the 11 cars. There were 34 leaded, cars standing on track No. 2 in three groups, the first string contining 14 cars which were not properly located for unleading; there was a space of about one car length and then another section of 5 errs, at which men were at work

unloading ore; there was another space of about 20 feet and then 14 oars. The care being pushed by engine 1136 struck the care standing on track No. 2 hard enough to close up the spaces between the different sections and to drive the first section of 14 cars forward a distance of about 48 feet. Some of the men who were at work were run over and others were knocked into the ore pockets.

This accident occurred at 9: 03 p.m., and at the time the weather was clear.

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Switch Foreman Trado stated that his instructions from the dock foremen were to leave part of his cars on track No. 5 and then plok up 14 cars on track Ho. 2 and go out on the east main line and wait until the empty cars had been removed from track No. 6. While he was carrying out those orders the assistant general foreman asked him that his instructions were, and then directed him to proceed. As his engine, pushing the 11 cars approached the 14 cars standing on track No. 2, he signalou the engineman to stop, and whom his signals sere not observed he attempted to stop the cars by opening the ongle cock so as to not the cir, but was unable to do so. When his train struck the standing cars it did not couple with them. He said as the ours approached sw tohman Cronemiller was banging on the side of the first ear. When picking up ours it was customary for the brokenan to ride on top except shen there were just a few cars in the section, and in this instance the brakeman was on the outside of the car on the engineman' olde of the track. He stated further timb the air was not applied on the cars pushed by engine No. 1135 until after the cars standing on the siding were struck. He did not know that men were working on cars on this track, and states further that it was not customary to set the head brakes on cars loft on the tracks, as the tracks are practically level. It was the custom for a member of the sistebing erew to go should and warn men tocking on a track when a awitching train entered that track, but in this case it was not 'one, as he did not know that men were working there.

Brekeren Clark stated that the only signal he saw after sparting in on track No. 2 was the proceed signal. He did not see any step signal of any kind. He said that he was on the side of a car looking for a signal from the field man because the curve hid the head man, and that had he been no top of the cars there build have been no difficult; in seeing signals. Head Brakeman Cronemiller stated that he gave the signal to go shead when the train entered track No. 2, and started to clumb up to the top of the cars. As the train approached the standing cers he gave stop signals, and when these were not observed be tried to open the angle cock so as to apply the air brakes, but was unable to do so. Engineer Coleman, who was in charge of engine 1155 stated that he received no signal whatever after receiving the proceed signal directing him to enter track No. 2. He stated that at the time of the collision the engine was running about 5 or 6 miles an hour and that he had no intimation that anything

was wrong before the collision occurred.

Dump Foremen Veermen stated that it was his duty to see that the men dumped the ears wherever they were placed in position for unloading. He stated that on the night of the accident he was near the six cars on which whene men were working but was looking in another direction, and the first notice he had of the accident was when he heard the injured men calling for help. In this case he did not see in what position the men wer working, although he had fre wently warned than not to get on the rails.

Dock Foreman Backen, who we in charge of dock No. 4 on the night of this accident, stated that at the time of the accident he was talking with Foreman Fielder. He thought when the care passed hat they were going at an excessive rate of speed, but he had no means of stopping them. He stated that the ordinary way of protecting wen under such directangen was to warn them to keep away from ears while a coupling was made, and this was done by calling to them to watch out. In this case, he over, he did not warn the men; he considered it unnecessary to carn them, as a coupling could be made ithout moving the cars a distance of more than 4 or 5 feet. He had fro wently warned men not to jo under the cars or to straddle the rails while at work unloading, but he knew that this was done.

General Foresan Fichmer stated that he had general supervision over the outside work on the docks at night. He thought from the way the men were injured that so o f them were straddling the rails then the cars were struck. There were about 13 men at work on these cars, two to each car. When engine 1105 passed him he thought it was going at the rate of about 10 miles per hour but that it would be stopped before striking the star ing cars. Just before the collision occurred, however, he sur the side of the car repeated the stop signal, but the archity of the side of the car repeated the stop signal, but the archity of ore not observed. He also sai that in cases of this him. I have oustowary to warn men who were working on care, but he did not not better or not it had been done in this case.

This accident was caused to the failure of Yardman Cooncrillor and Clark to obey the rules of all lag them to ride on top of the cars they were handling so as to the orly transfer signals to the enginement. A contributing cause — the error in judgement of Engineman Coleman in moving his engine at such speed while switching on this dock.

The rules of the relief of contany require trainment of ride on top of the cars while on a look. Had the men been on top of the cut of il cars they excounting, as required by the rules, signals could have easily been to deferred to the enginemental the speed of the cars to controlled that the coefficient could not have occurred.

During the heavy are detion as many as 1,000 cars of ore perday are handled on this look on about 300 men are employed. There (

is no method provided for notifying the dock laborers of the approach of a train except by word of mouth from the foremen, and in this case the nen unloading the ore received no warning and had no notice of the impending danger, so that they had no chance to get out from under or off from the tops of cars.

In view of this volume of business it is believed that the prevent practice of warning and protecting sen are entirely insecuate, and some adequate method or device for this pursous should be adopted.

hule No. 35 of the Grout Northern Railway reads as follows:

A blue flag by day and a blue light by night, displayed at one or both ands of an engine, car or train, indicates that working are under or about it. Then thus protected it must not be coupled to or moved. Workmen deplay the blue signals and the same workmen are alone sucherized to remove them. Other cars must not be placed on the similarity so as to intercept the view of the blue signals without first notifying the workmen.

There ampears to be no good reason who this rule should not be strictly oberved as a means of protecting dock amplyees who are working under one about the ore cars while they are being unloaded on the dock. But this rule been in effect, and had its re uirements been observed, this rectiont would not have occurred.

The rules of the commany re uiring traismen to ride on top of care should also be rigidly enforced.

Al the employees involved in this accident were experienced men, and none of the man on duty contrary to the hours of rervice law.