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U.S.INTERST. TE CONTERCE CO TRASTON,

RIPORT OF THE DIR CTOR OF THE BUPLLU OF SAFITY IN RE NO DESERVODO HOLEN T'EDIDO, M. TO MOLT DITCL FUE TIL C LOLGO, MIL UKEE, SP.PAUL & P CITIC PLIL-PC D L LDÓ ORTE, ILL., ON LUGUET 9, 1929.

Tove ber 18, 1929

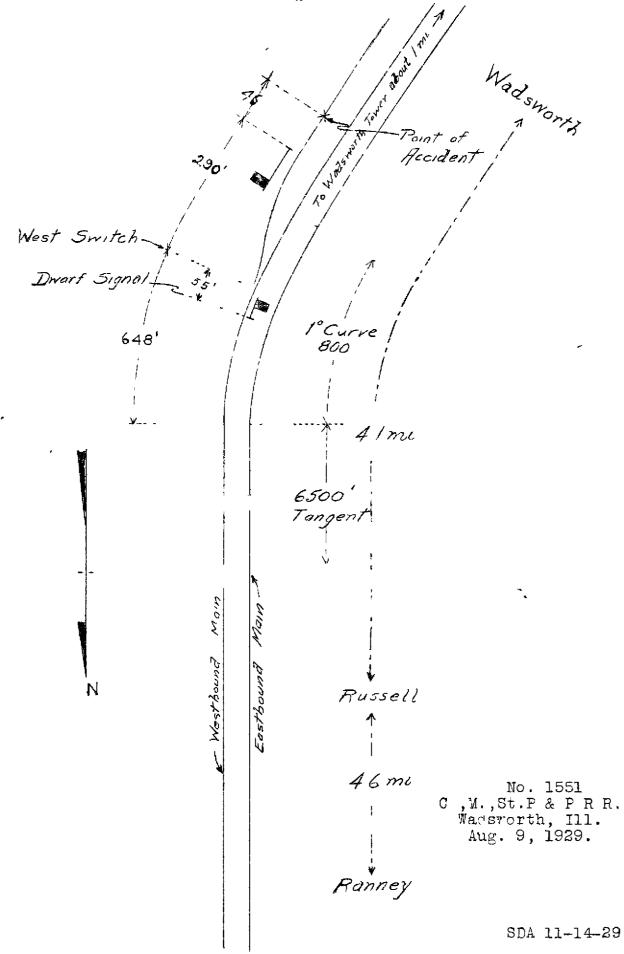
To the Colustion

On August 9, 1929, there was a read-end colligion between I passinger train and a freight train on the Chicago, In walkee, St. Paul & Pacific Isilread at Vadsworth, Ill., resulting in the death of 2 employees and 1 trappossor, and the injury of 20 passongers and 2 conloyees. This accident was investigated in conjunction vitte representative of the Illinois Commerce Commission.

Lecasion and mounted of oferenoi.

This accident become and that port of the Objection of the Division extending between Chicago, Ill., and all other, Wist, a distance of 85 miles. In the vicinity of the point of decident this is a double-trick line of a line trains ordinally are operated by time-wable, union orders, and the around the block-signal s stem, now vor, as the costbound main truck was blocked during dollight vorting noirs, in connection with the meking of a fill for the enti-sion of the costbound pass-ing trees to Balmer, legated 8.7 miles was of Vodsworth, it is necessary to establish a single-track zone, the westbound trace boing used for this purpose, with manual block officers then.

The chard direction of the tree, is north and south, but the time-toble discillers are east and west. and these letter directions are the directions used in this report. The decident occurred into interlocking limits of Widswort, at a point about 1 mile west of the tower, at the west surtag of the passing track, a facingpoint statch for trains loving against the current of trefule on the westbound track, the passing track parallels the main wheeks on the north. Approaching from the west the track is whose for a considerable distance, followed by a 10 curve to the right 800 feet in length, the switch being located on this eurve at a point 152 feet from its costorn, and. The grade for eastbound trains is slightly descending.



The switch involved is controlled from the toper at Approxim, the tower being located on the south side of the lain tracks and directly opposite the station. Durf signal 5, of the two-position, upper-quadrant tipe, is located 55 feet west of the switch and between the main tracks, it normally displays a stop indication, and joverns reverse movements of the on the main track or into the passing track. The automatic block-signal system functions only for trains moving with the current of traffic.

R les 352, 670-A and 1093 of the rules and rejulations of the operating deportment read in port as follows:

552. If, from any cause, a signalman is unable to communicate with the nont plock section in advance, he mast stop all withins approaching in that direction.

670-A. On two or more tracks, trains nowing against the current of wraffic must rique speed to not more than ten miles per nour and be under control when approaching it approach through interlocking limits, proposed to stop at a dramf signal giving a "Stop" indication. The indications of these signals can be seen as a discord of approximately only 600 feet in alear weather.

1095. After receivt of a train order addressed to two or more offices each operator to whom the order is sent will check his copy with the first reneticion. The operator repeating first will check with the nort repetition. If a difference is found operators will immediately interrupt and call the dispatcher's autentical to it.

The weather was exear at the time of the socident, which occurred about 5.05 per.

Description.

Libbound passenger train No. 46 consisted of one milk car, one boggage car, one express car, three code es are the parlor cars, rauled by engine 6159, and its in charge of Conductor Wybourn and Engine an Lorimer. The first and third cars were of steel underframe construction, while the remainder were of all-steel construction. At Rangey this train was crossed over to the westbound main track, against the current of traffic, and thile passing the office, at 4.55 p.4., according

to the train sheet, 14 minutes late, the operator handed on a copy of train order No. 29, Form 19, reading as follows:

No. 46 has right over opposing trains on westward track Ranney to Wadswort:
Do not exceed 10 miles per hour through crossovers.

Train No. 46 passed Russell, 4.1 miles west of Wadsworth, at 5.02 p.m., according to the train sneet, at which point a clear indication was displayed on the train-order signal, passed dwarf signal 5, which apparently was displaying a stop indication, entered the open facing-point switch at the west end of the passing track at Wadsworth while traveling at a speed estimated to have been between 25 and 35 miles per hour, and collided with the head end of west bound freight train extra 8378, an 87-car tiain, in charge of Conductor Martin and Engineers Kolly, which was standing on the passing track with the engine just east of the "holding" signal, near the clearance point, or about 336 feet east of the switch.

Engine 8578 was partly derailed and badly damaged, its boiler being form from the frame, and the tender was also ladly damaged. Four ears in the freight train were damaged, two being practically demolished. Engine 6139, its tender and the first three cars in the passenger train were detailed, engine 6139 was also badly damaged and its tender demolished. The milk car was demolished, and the baggage car considerably damaged, while the damage to the remaining six cars was confined principally to interior fixtures. The employees killed were the engineman and fireman of train No. 46, while the employees injured were the baggageman and flagman of that train.

Summary of evidence.

Dispotener Tabbert stated that he issued train order No. 20 at 4.35 p.m., by telepione, simultaneously to Wadsworth, Russell and Rannev, it was addressed to all vestward to ins and the operator at Nodsworth on Form 31; to the crew of a lock eithaland the overator at Russell on Form 31, and to the crew of tain No. 46 at Rinnev on Form 19, the order sent in each case reading exactly as previously quoted. Im Ediately afterwards, and before train order No. 29 and been repeated by any of the operators, the dispatcher issued train order No. 30, as an extra precaution, addressing it to the operators at Vadsworth and Russell or Form 31, reading "hold

Westward train . Dispatcher Tabbert stated that Operator Porcer, at Wadsworth, correctly repeated both olders, and also assured mim that extra 8578 was in the clear and being held of the passing track at that point. Dispetcher Tabourt also stated that for two or three days prior to the accident, brain No. 46 had been run against the corrent of traffic from Ronley to Pussell, and that Operator Porter had been involved in all of those movements. On this occasion, however, train order No. 29 specified "Ranney to Wadsforth", and in fect, it was the intoltion of the dispatcher to extend the order and run train No. 45 against the current of traffic all the way to Ro Jott, 10.6 mules east of Wadsworth, or account of another eastbound train inving developed trouble octween Wadsworth and Kondout. Dispetcher Tabbert further samed that prior to the time at which train order No. 29 was issued, and while in telephone conversation with the operator at Wadsworth relative to a pestuound mover our, he told the operator to "let the motor car 50 and hold ertra 8378 west for No. 46, running No. 46 'mong."

Operator Porter, on duty at Wadsworth, stated that he work on duty at 4 p.m., at which time extra 8378 was on the massin, track. The motor car departed Westbound at 4.27 f.m. and wan at eleared the carcuat he opened the west syntch of the cassing track, but about a character two later he closed the switch. At 4.35 p.m. to recolived train order Mo. 25, directing the Movement of train No. 46 against the current of traffic on the westbound wreck. Operator Porter said that the order and transmitted as about the average speed, so that he could write it down is given, and that he had the order entirely written out before he started to repeat it; he rose ted the order promptly to the dispatcher, but did not comply with the rules and check With the repetations by the operators of Russell and Remark. Operator Porter was questioned as to the procedure he followed in repeating the order to the dispatcher, and his statements in this connection were as follows

Q. In repeating order No. 29 to the train dispatoler, did you shell out the word 'Pussell'?

A. Had a little trouble with the telephone cutting in and out at times. It's more idea that when I spelled out the name of 'Russell' nossibly the 'phone out out and when I promounced the station 'Wadsworth' he thought it was part of the repetition of the order. I reported the 'phone being out of order.

- Q. What do you mean, repeated "Todsworth"?
- A. As a finish of the rejetition.
- Q. In other words, you remeated this 'Train No. 46 has right over opposing trains on westward track Ranney to Russell Wadsworth'.
- A. Yes, sir.
- Q. Is there anything in the rules pertaining to the handling of train orders by telephone that would make it necessary for you to pronounce the name of your station, practically in the body of a train order?
- A. We give name of station then we finish any business on the phone, as a rule.

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- Q. Well, when the order was checked with you, you repeated it to the dispatcher and all of the testimony is to the effect that you repeated it Wadsworth.
- A. I emplained a while Lga how the 'phone connection got cut off at times and I suppose when I repeated 'Russell' the 'phone cut out and he did not hear it and when I pronounced 'Wadsworth' he took it for the repetition of the order.
- Q. Do you actually know whether or not the order read 'Russell' or 'Wassvorth'?
- A. I thought he said 'Russell.'

After having received the order, he said he pat a copy on the hoop and threw one copy in the waste bisket. Shortly afterwards, Dispatcher Tabbert issued another train order, No. 32, giving train No. 46 right over opposing trains of the westbound main wrock from Wadsworth to Rondout, which Operator Portur repeated at 4.44 p.m. After gotting this order, Operator Porter alan opened the vest switch of the passing track, of his own accord, with the intention of letting extra 8378 depart westward as soon as train No. 46 had cleared at Russell, having in some way formed the opinion that train No. 46 would only run against the current of traffic as far as Rassell and that the dispetcher then would let extra 8378 depart from Wadsworth. Operator Porter then left the office for the purpose of delivering train order Fo. 32 by hoop to the crew of train Fo. 46, but in a few minutes, or about 5 p.m., he returned to the office and started calling Russell on the telephone, in order to

ascertain whether train No. 46 had crossed over to the eastbound main track at that point, so that he could let extra 8378 depart from the passing track; the operator at Russell did not answer until nearly 5.05 p.m., and it was during the course of this conversation that Operator Porter first realized that train No. 46 was moving against the current of traffic to Wadsworth. He looked at the train indicator in the tower and saw that train No. 46 was heading in at the west switch and although he changed the lever controlling the switch it was then too late to avert the accident. Operator Porter said that the dwarf signal lever in the tower was in the stop position at all times. A short time after the accident a copy of train order No. 29 was found in the waste basket, it was hardly legible, bore erasures and changes, and read as follows:

No. 46 has right over opposing trains on westward track Ranney to Russell.

It will be noted that this copy of the order read, "Ranney to Russell", instead of "Ranney to Wadsworth". Operator Porter acknowledged that he did not include in the order that part reading "do not exceed 10 miles per hour through crossovers" Further questioning of Operator Porter indicated that he was considerably disturbed by personal affairs, and that his life had been in the office at the time he copied train order No. 29. It also appeared from his statements that a freight trein was passing the tower at the same time, that it made a great deal of noise, and that if he made any error in copying the order it must have been due to this house. He felt, however, that the only mistake re and made was in opening the switch for extra 8378 without having any knowledge as to when that train would be allowed to depart. Operator Oskins, who had been relieved by Operator Porter at 4.p.m., said is was clearly evident that there was something on Operator Porter's mind when he came on duty, and that he did not seen to be paying any attention when the transfer was made; the situation was so unusual that Operator Oskins gave it considerable thought on his way home, but at the time he did not feel that there was any danger in turning over the office to Operator Porter.

Operator Newyear, stationed at Russell, stated that he checked his own copy of train order No. 29 as it was repeated by Operator Porter to the dispatcher, and he was positive that the order was repeated correctly, spelling out the word "Wadsworth". Operator Newyear also checked his own copy of this order when Operator Thompson, at Ranney, repeated it, saying that that operator also repeated it correctly. Operator Newyear stated that train No. 46 was reported to him as having left Ranney

at 4.55 p.m., and that ie at once endeavored to get in telephone cormanication with the operator at Wadsworth, several times, but to no avail, and when train No. 46 approceded the station at Russell, instead of stopping it and getting into communication with the dispatcher as he should have done, he permitted it to pass his office under a clear train-order signal without first having obtained the block from Wadsworth, feeling at the time that it was perfectly safe to do this, in view of the contents of train orders Nos. 29 and 30, and feeling that the operator at wadsworth linew train No. 46 would be on the westbound track from Rannev to Wadsworth. After train No. 46 passed R ssell the operator at Wadsworth rang the telephone and at this time Operator Newrear informed Operator Porter that train No. 46 had passed Russell at 5.02 p.m. on the westbound track.

Operator Thompson, stationed at Ranney, left the telephone after receiving train order No. 29, in order to like up his plant for a Chicago & North Western train, and therefore did not completely check his own copy of the order as it was repeated by the operator at Vadsworth, returning to the telephone just as that operator was finishing. Operator Thompson did, however, check his own copy of the order at the time it was repeated by the operator of Rissell.

Conductor Wybourn, of train No. 46, stated that approaching the interlocking limits at Wadsworth the speed of his train was about 40 miles per hour, and that a service air-proke application was made, reducing the speed of the train to 25 or 30 miles per hour when about one-fourth to one-half mile west of the switch; the conductor felt centern that the train could be brought to a stop without incident provided the dwarf signal was displaying a stop indication. The air brakes were held applied following the application, and went into energency innedictely prior to the collision; he estimated the speed of his train to have been about 25 miles per hour on The air blakes had been tested at entering the switch. Milwaukee and worked properly en route. Conductor Wybourn further stated that the speed of his irain did not exceed 40 males per nour at any time between Ranney and the point of accident, and that he was thoroughly familiar with rule 670-A, relative to having the train under control prepared to stop at a dwarf signal displaying a stop indication. After the accident he examined the switch and it was open, This the dwird signal in the stop position. The statements of other members of the crew developed nothing additional.

Meabers of the crew of extra 8378 estimated the speed of train No. 46 to have been between 25 and 35 miles

per hour on entering the switch. Their testimony was to the effect that they did not know that train No. 46 was being run against the current of traffic, and that the dwarf signal did not display a proceed indication at any time while their train stood on the passing track

Conclusions.

The direct cause of this accident was an open switch, but there were a number of incidents leading up to its occurrence which need to be noted. Dispatcher Tabbert issued an order directing train No. 46 to run against the current of traffic from Ranney to Wadsworth, and reducing speed to 10 miles per nour through cross-overs, but Operator Porter, at 7 dsworth, wrongly copied the order as reading from Ranney to Russell, and omitted the provisions containing the speed restriction. Operator Porter admitted that he left out the speed-restriction provision, but said he was sure the rights of train No. 46 on westbound trick extended only from Pinney to Russell. Even under these circumstances, however, the accident would not have occurred and not Operator Portor opened the west passing-track switch with the idea that the extra on the passing track would be alloyed to depart westward es soon as truin No. 46 had crossed back to the eastbound track at Pussell. Operator Porter then left the office with the expectation of delivering orders to the crew of train No. 46, and remained out of the office for a period of probably two or taree minutes, d ring all of waich time the passing track switch was allowed to remain open, although there was nothing to be gained by obening this switch until the extra on the passing track had actuall, been authorized to proceed. Operator Porter's only statement in this connection was that it was not eistomary to line up a route in this manner, and the only explanation for the vey in which he handled this switch, which was the direct cause of the accident, and for the manner in which he copied train order No. 29, probably can be found in the fact that he clearly was not in the mental condision accessary to enable him to tend properly to his duties.

Operator Newteer, on duty at Russell, failed to obtain the block from Madsworth for train No. 46, but said he thought it was sain to allow the train to proceed under a clear block-signal indication, because of the fact that under the orders which had been issued he supposed the operator at Wadsworth knew that the train was moving against the current of traffic from Ranney to Wadsworth. No reasonable excuse can be offered to justify his action, and it is only necessary to point out that had Operator

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Newwear had a proper conception of ris duties, it is more than probable that the accident would have been prevented.

Under the rules, Engineman Lorimer, of train No. 46, also is at fault for his failure to reduce the speed of his train to not more than 10 miles per hour when approaching interlocking limits against the current of traffic, and for his further failure to bring his train to a stop before passing dwarf signal 5. All of the evidence avoidable indicated that this signal was in the stop position at all times, but under the circumstances, it is impossible to say what it his that caused Engineman Lorimer to fail to see the indication of this signal in time to stop his grain.

The facts surrounding the occurrence of this accident give one hore illustration of the necessity for strict adherence to the rules provided for the safe operation of trains. Each of the three employees above mentioned failed to perform his own dubies properly, and yet any one of them could have prevented the accident. This has been the story of innumerable accidents in the past. Various safety devices have been adopted with the ides of reducing accidents to the greatest possible extent, but there will always remain the human element for which no substitute can be found. The onlines is to guard continually egainst the taking of chances, against the inclination to act upon assumption, and eleinst the idea of one employee that he can whak at the rules himself and depend on the other man's carefulness to prevent the occurrence of an accident. If each employee would see that his own performance was strictly in accordance with the rules, accidents of this character would not occur.

Operator Porter and Enginemen Loriman had had over 30 years' experience, and Operator Powyer had had ever 10 years' experience. The other employees involved were also experienced men, and at the time of the eccident none of them had been on duty in violation of any of the provisions of the hours of service law.

Respectfully submitted, V. P. BORLAND,

D_rector.