INTERSTATE COMMERCE COMMISSION WASHINGTON

REPORT NO. 3640

NORTHERN PACIFIC RAILWAY COMPANY

IN RE ACCIDENT

AT RENTON, WASH., ON

JULY 4, 1955

SUMMARY

Date: July 4, 1955

Railroad Northern Pacific

Location Renton, Wash.

Kind of secident: Head-end collision

Equipment involved: Locomotive with : Freight train

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Train number Extra 218 East

Engine numbers: 1373 Diesel-electric

unite 218 and 219

4

Constate. Il cars, . 15 cars, caboose

oa boose

Estimated speeds: 5-10 m. p. h. : 15 m. p. h.

Operation: Timetable and train orders,

yard limits

Treck Single, 4°01' curve; 0.42 percent

ascending grade westward

Weather: Clear

Time: 11.40 a. T.

Casualties 2 killed; 4 injured

Cause: Failure properly to control the

speed of both movements while

moving within yard limits

INTERSTATE COMMERCE COMMISSION

REPORT NO. 3640

IN THE MATTER OF MAKING ACCIDENT INVESTIGATION REPORTS UNDER THE ACCIDENT REPORTS ACT OF MAY 6, 1910.

WRITHERN PACIFIC BAILWAY COMPANY

Aument 172, 1111

Acrideri at Fenton, Wart, or July 4, 1366, caused by "all me wrogerly to remired the openiof both movements wills movel; within year limits.

REPORT OF THE COMMISSION

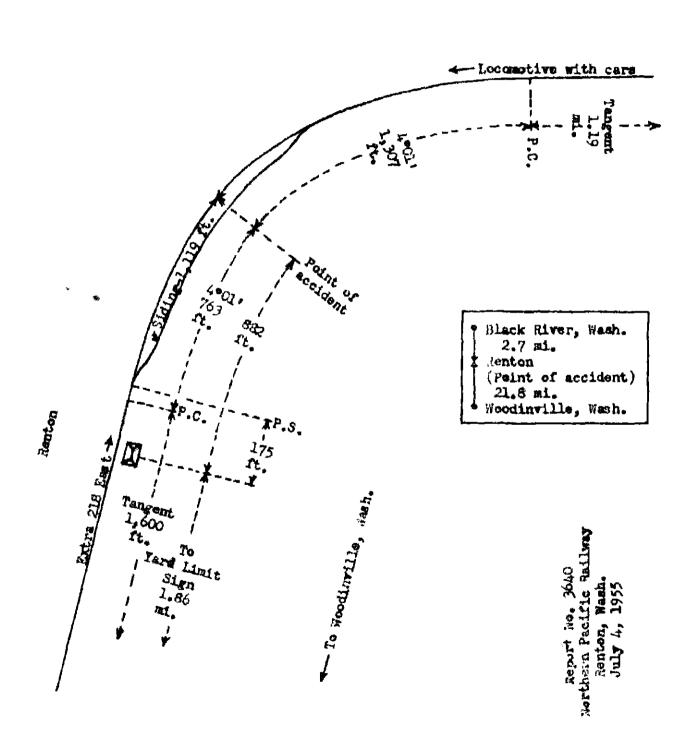
CLARE COMMESSODEL.

In July 4, 1955, index was a head-ord collision between a lemmoties with mr. and a freight that on the Mosthern Pacific Rai, may at Aenton, Meet. which resulted in the death of two trein-service employees. And the injury of four trein-service employees. This accident was investigated in conjunction with representatives of the happens of Public Service Complesion.

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Under without to as them 17 (2) of the interested Commerce Art the above and of misserding was referred by the Completion to Committee of There for consideration and Sispersition.

To Black River, Wash. ->



Location of Accident and Method of Operation

This accident occurred on that part of the Tacome Division designated as the Eleventh Subdivision and extending between Black River and Woodinville, Wash., 24.5 miles, a single-track line, over which trains are operated by timetable and train orders. There in no block system in use. At Renton, 2.7 miles west of Eleck River, a siding 1,110 feet in length parellels the main track on the south. The west slding-switch is 176 feet east of the Yard limits extend between Black bives and a station point 1.66 siles west of the station at Renton. dent occurred on the main track within yard limits at a point PSC feet east of the station at Rentor. From the east there is a tengent 1.19 miles in length and a 4°Cl' curve to the left 1,807 feet to the point of accident end 785 from westward. From the west there is a tancent 1,800 feet in length and the curve on which the arcticrt occurred. The grade is 0.4% tercent ascending westward 4.5 the print of accident.

This cerrier's operating rules reed in part as follows:

DETINITION 3.

Restricted Spend. -- Frequent prepared to chop more of train, obstruction or writing that may require the acted of a train to be reduced.

93. * * *

Within yard limits the main track may to used without protecting against account and inferior class, extra unains and engines.

Within yard limits escond and inferior class, extra trains and engines must move at restricted suced.

替 移 备

Timetable special instructions read in part as follows.

9. Yard Limits--Tracks between yard limit sign west of Renton and the connections with double track at Black River operated as one yard.

The nations anthorized speed for Treight trains is to miles per hour.

Description of Accident

Steam incomptive 1373, pulling II care and a carcore, deterted west-hand from Black River at II 30 a c., according to the cordictor's delay report. The located west-had long, was headed eastward and moving in backward motion. While it was moving at an estimated speed of b to 10 miles for hour it collides with Extra 218 Fast at a point her fact of the station of Featon.

Extra £18 Dast, an east-bourd fieleht train, constant of Diesel-electric units (In and 219, coupled it a libble-unit control, it cars, and a calcose. This armin departed from Moodinville at \$150 e.m., and while revine the appeal of 15 miles per hour, as indicated on the tape of the speed-recording device, it collided with locatedian 1377

The tender and the driving wheels of locounties (178 and the first can east of the locounties were described. The clatern of the tender was separated from the underframe inforced assinat the boiler bead of the locounties. The cah and cab fittings were demolished. The first can was considerably damped. The rear truck of the first Dieselectric unit, the front truck of the second unit, the first two tars, and the front truck of the third can of Extra 218 East were described. The first Dieselectric unit was somewhat damaged, the reconficer was destroyed, and the second Dieselectric unit and the third can was a slightly damaged.

The engineer and the fireman of locomotive 1373 were killed. The conductor and the front brakeman of this crew and the angineer and the front brakeman of Extra 218 test were injured.

The weather was clear at the time of the accident, which occurred at 11:40 a.m.

Disacl-electric units 218 and 219 are of the road-ewitcher type.

Discussion

The crew of locomotive 1773 was assigned to perform switching service on the Second Subdivision, which connects with the Tieventr Subdivision at Birck River. As part of this assignment the crew also performed switching service within yard limits in the vicinity of Senton on the Reventh Subdivision. At the time of the accident a wevenent was being made from Black Fiver to the station at Approaching Renton the enginemen and the front brakeman were in their respective positions in the cab of the locomotive, and the conductor, the swing trakemen, and the Plasman were in the caboost. The orakes had seen tested and had functioned property when used on route. the curve on which the accident occurred the engineer's view of the track sheed was considerably restricted by vegetation couth of the track and a shed edjacent to the east siding-switch. In the immediate vicinity of the roin' of accident his view of the trank west of the point of sicident was obstructed by eight outflit cars standing on the siding. The east end of the east car was 150 feet west of the point of accident. The view of the track sheer from the firemen's side of the cab was clatructed by the tender. The front brakeman said that as the locomotive were closely opproaching the point where the accident octured he heard the sound of the pneumatic horn of a Diesel-electric unit. He called a varnise to the engineer, but "be engineer did not respond. The front brakemen wall that at this time the engineer agreered to have become ill.

Fe said that the engineer placed the independent brake valve in application position several times and appeared to be concerned because of the impending collision, but he made no effort to apply the automatic brakes or to leave the locomotive. The front brakeman thought that the speed was about 8 miles per hour at the time of the He did not see Extra 218 East before the accident. collision occurred. The conductor said that the speed was reduced from 20 or 25 miles per hour to about 5 miles per hour as the train approached Rerton, and he estimated that the speed was 5 miles per hour at the time of the collision. The flagman and the swing brakeman estimated that the speed was about 10 miles per hour. The employees in the caboose said that in the immediate vicinity of the point of accident there was no application of the brakes. The surviving members of the crew said that durin, the trin they had noticed nothing unusual in the behavior of the engineer nor in his operation of the locomotive.

As Extra 718 Rest was approaching the coint where the actident cocurred the enginemen and the front brakeman were maintaining a lookout ahead from the ocntrol compartment of toe first Diesel-electric unit. The occductor, the swing brakeman, and the flagman were in the imposes. The firewan. a qualified engineer, were of erating too locomotive. The brakes of the train had been tested and had functioned properly when used en route The firewan eald that when the locamative reached a paint about 40 fort west of the ersu end of the outfit cars on the siding he saw aroke from locomptive 1373 over the tops of the cars. He immediately made an emergency application of the brakes and sounded a series of warning blasts on the proumatto norn. After his locomotive passed the east end of the outfit cars and he could see lonomotive 1373 it appeared to him that the engineer of that locomotive was looking toward the east. The employees on the locomotive and the flagman all said they thought their train had stopped before the collision equirred. The conductor and the swing by kearn said they trought the collision occurred either immediately before or immediately after their train atophed. According to the master mechanic's analysis of the tape of the speed-recording device, Extra 218 East was moving at a speed of 15 miles per hour at the time of the collision. According to this analysis the speed was reduced from 24 miles per hour to 16 miles per hour within a distance of approximately 1/2 mile as the train approached Renton. The train then moved approximately 1/2 mile at a speed of from 18 to 18 miles per hour, and the speed was reduced from 18 to 15 miles per hour immediately before the impact occurred. The speed-recording device was calibrated after the accident occurred and was found to register accurately at 8 miles per hour and 32 miles per hour and to register slightly fast at 56 miles per hour.

After the accident occurred observations were made to determine the range of vision between opposing movements in the vicinity of the point of accident. Dieselelectric unit 219 and a steam locomotive of the same type as locomotive 1373 were used during these observations. The steam locomotive was heared eastward. The weather conditions were approximately the same se those which prevailed at the time of the scallent. From the engineer's position in the cab of the steam locomotive. Dieselelectric unit CiG approximating the onint of Accident from the west did not proome visible until it was approximately opposite the east end of the cars on the siding. From the firemen's position in the mab of the locomotive, the view of the trick whead was obstructed by the tender. steam locomotive standing at a point 100 feet east of the point of accident first became visible from the fireman's position in the control compartment of Diesel-electric unit 919 at a distance of 300 feet, and from the engineer's position at a distance of 275 feet.

This accident occurred within yard limits. Under the rules of this carrier appearance operation within yard limits, each movement was required to be operated in such manner that it could be stored short of a train or an obstruction.

Cause

This accident was caused by failure properly to control the speed of both movements while moving within yard limits.

Dated at Washington, D. C., this twenty-ninth day of August, 1955.

By the Commission, Commissioner Clarks.

(SEAL)

HARCLD D. McGOY, Secretary