IN HE THUMBERTO ANTONIO IN RE INVESTIGATION OF ACCIDENT ON THE PERSONNAMIA RAILROAD AT SHARMON, PA., ON JULY 23, 1914.

On July 83, 1914, there was a derailment of a passenger train on the Pennsylvania Builroad at Shannon, Para resulting in the desth of 1 employee and the injury of 2 employees. After investigation of this accident the Chief Inspector of Sefety Applianess peporta as follows:

 $C_{\mathcal{I}}$

Train No. 276 consisted of I baggage and mail der and S cosober, hauled by locomotive Secs, and was in charge of Conductor C Corner and Engineeran Newsborn. This train left Driftwood, Pa., at 6:10 a.m., on route to Phillipstown, Pa., passed Lawsonhom, the last open telegraph station east of the point of derailment at 10:04 a.m. and was derailed at a point 9.421 feet west of Lawsonhon at 10:06 c.m.

Loopporive 5263 was derailed and yen a distance of 361 feet before it done to rest on its right-hand side, about 40 feet south of the track. The buggage and mail our was devalled and thrown across the track in an upright position, while the smoking our was partially derailed and sustained slight damages. The engineman was caught under the locometive and instantly killed.

The low-grade branch of the Allegheny Division, on which this sectiont occurred, is a single-track line, trains being operated by the train-order and named block system. The derailment occurred on a 9 degree ourve. 210 feet in length, with a superelevation of 55 inches, and in a 2-foot out. The track at this point consists of 30-foot steel rails, weighing 85 pounds to the yeard, and laid on 15 oak tier to the rail. The condition of the track on this curve is good.

An exemination of locomotive 3265 after the socident failed to disclose any defects that could have caused the derailment. However, the exte on the forward pair of truck wheels was bout 1/6 of an inch, but this is thought to have been caused by the heavy strain to which it was subjected when the locasotive turned over. An examination of the track showed that the inside of the rail on the outside of the curve was badly worn.

Fireman Kearns stated that the engineers had shut off steam. allowing the train to drift along at a speed of about 20 miles per hour, but as soon as the locomotive left the relie the engineman applied the brakes in emergency. In his opinion the track on this curve was safe for a speed of 40 miles per hour.

Conductor O'Connor stated that his train was practically on time at all the stations between Driftwood and the point of de-railment. He stated that his train maintag waited from 19 to 2 minutes at Brookville. New Bethichem. and Lewsonbes in order to avoid leaving those stations ahead of schedule time. After leaving Lawsonham he was engaged in taking up tickets when he felt the energency brakes being applied, at which time the speed of

No. 212 August 10, 1914.

IN RE INVESTIGATION OF ACCIDENT ON THE PERSYLVANIA RAILROAD AT SHARDON, PA., ON JULY 25, 1914.

On July 23, 1914, there was a derailment of a passenger train on the Pennsylvania Railroad at Shannon, Pa., resulting in the death of 1 employee and the injury of 2 employees. After investigation of this accident the Chief Inspector of Straty Appliances reports as follows:

Train No. 276 consisted of 1 baggage and mail our and 2 coacher, hauled by locomotive 3863, and was in charge of Conductor O'Connor and Engineman McMahon. This train left Drift-wood, Pa., at 6:10 e.m., en route to Phillipstown, Pa., passed Larsonbam, the last open telegraph station east of the point of derailment at 10:04 a.m. and was derailed at a point 9,621 feet rest of Larsonbam at 10:05 s.m.

Locomo ive 3263 was derailed and ren a distance of 361 feet before 't came to rest on its right-hand side, about 40 feet south of the track. The baggage and mail car was derailed and thrown sorows the track in an u right position, while the smoking our was partially derailed and sustained elight damages. The engineers was caught under the locomotive and instantly killed.

The low-grade branch of the Alleghany Division, on which this accident occurred, is a single-track line, trains being operated by the train-order and manual block system. The derailment occurred on a 9 degree curve, 919 feet in longth, with a superelevation of 5% inc as, and in a 2-foot cut. The track at this point consists of 30-foot steel rails, weighing 65 pounds to the yeard, and laid on 15 oak tiet to the rail. The condition of the track on this curve is good.

An exemination of locomotive 3265 after the socident failed to dicolose any defects that could have caused the dernikent. However, the exte on the for any pair of truck wheels was best 1/8 of an inch, but this is the abt to have been caused by the heavy strain to which it was subjected when the locomotive turned over. An examination of the truck showed that the inside of the rail on the outside of the curve was badly worn.

Firemen Kearns stated that the enginemen bad shut off steam, allowing the train to drift along at a speed of about 30 miles per hour, but as soon as the locomotive left the rails the enginemen applied the brakes 'n emergency. In his opinion the track on this curve was sufe for a 2 eed of 40 miles per hour.

Conductor O'Connor stated that his train was prectically on time at all the stations between Driftwood and the soint of derailment. He stated that his train mainted writed from 16 to 2 minutes at Brookville, New Bothlohem, and Lawsonness in order to avoid leaving these stations sheed of schedule time. After leaving Lawsonness he was engaged in taking up tickets when he felt the emergency brakes being ap lied, at which time the speed of his train was about 50 miles per hour. He did not think the engineers was running his troit ony factor than he usually did.

Between Red Bank and New Bethleben, which includes the section of track upon which this socident occurred, passenger trains are by rule restricted to a speed of 40 miles per hour. Other than this rule there is no speed restriction on the 9 degree ourse where the decailment occurred. The schedule time of train No. 276 over this portion of the road is approximately 35 miles per hour. Division Superintendent Parker stated that the schedule speed of train No. 276 was predicated on track and operating conditions preveiling between New Bethlehem and Red Bank, and that he relied upon the judgment of his engineers in rounding sharp CULTUE.

While it is impossible definitely to state the dause of this devaliment, it is believed to have been due to excessive speed in view of track conditions existing on the 9 degree curve there it occurred. The superclevation on this curve was approximately be inches, which on curves of that radius is not cousidered a fe for speeds in excess of 50 miles per hour. The inside of the head of the cutside rail on this durys was badly worn away, indicating excessive flange pressure on the rull head. condition leads to the belief that speeds too high for the existing condition of the track where common on this ourve.

Evidence with respect to the speed of train No. 276 at the time of devallment in conflicting. Fireman Learne placed it at 20 miles per hour, Brakeman Proctor sold 25 and Conductor O'Connor estimated the speed at 30 miles while Baggageman Beale could not may how fast the train was running. The evidence, however, is that train No. 276 on this trip had exceeded schedule speed between stations and the distance the engine traveled after theying the rails leads to the belief that the train was running at a greater speed than 30 miles per hour when the derailment coourred.

Ingineera Kekabon and Conductor O'Comor were both experienced men who were familiar with conditions on this portion of the road.