

"The train derailment accident due to the collision of the train and the standard sized automobile, occurred at the class 1 level crossing"

Railway operator : Odakyu Electric Railway Co., Ltd.
 Accident type : Train derailment accompanied by the level crossing accident
 Date and time : About 14:52, June 19, 2019
 Location : Hon-Atsugi No.13 level crossing, the class 1 level crossing equipped with crossing gate and road warning device, at about 47,340 m from the origin in Shinjuku station, between Hon-Atsugi station and Aiko-Ishida station, double track, Odawara Line, Atsugi City, Kanagawa Prefecture

<SUMMARY>

While the outbound Rapid Express Passenger 3033 train, started from Shinjuku station bound for Odawara station, Odawara Line of Odakyu Electric Railway Co., Ltd., was running between Hon-Atsugi station and Aiko-Ishida station at the velocity of about 100 km/h, the driver of the train noticed the standard sized automobile halting in Hon-Atsugi No.13 level crossing, the class 1 level crossing, then applied the emergency brake and sounded the whistle immediately, but the train collided with the automobile and all two axles in the rear bogie of the 1st vehicle derailed to left at Hon-Atsugi No.14 level crossing, the class 1 level crossing, located at 73 m beyond Hon-Atsugi No.13 level crossing.

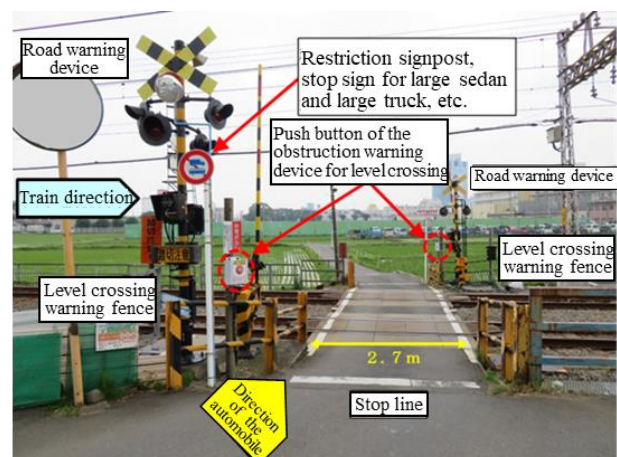
A passenger was injured in the accident.

<Rough map of around the accident site>



This figure was made using the Geographical Institute Map, Electrical Country Web, of the Geospatial Information Authority of Japan

<Status of Hon-Atsugi No.13 level crossing viewed from the entered side of the automobile>



<PROBABLE CAUSES>

It is probable that the concerned train derailed at Hon-Atsugi No.14 level crossing, located at 73 m ahead of Hon-Atsugi No.13 level crossing, caused by the collision with the standard sized automobile which entered Hon-Atsugi No.13 level crossing, in the status that the road warning device was operating responded to the approaching train, and stopped in the level crossing because the crossing rod lowered before the concerned automobile went out of the level crossing, in the concerned accident.

As for that the driver of the concerned automobile entered the concerned level crossing in the status as the road warning device of the concerned level crossing was operating, it is somewhat likely that it was the first time for the driver of the concerned automobile to pass the concerned level crossing by driving the concerned automobile, and his consciousness was not paid toward the on and off red flash lamps and the alarm sound of the road warning device in the concerned level crossing because his consciousness had been concentrated to drive the automobile carefully as the obstacle detection system of the concerned automobile uttered the warning sound when moved the concerned automobile into the concerned level crossing. In addition, as for that the concerned automobile stopped in the concerned level crossing, it is certain that the driver of the concerned automobile stopped the concerned automobile in the concerned level crossing because the driver of the concerned automobile did not know that the automobile can get out of the concerned level crossing as the crossing rod would be raised by pushing the cross rod by the automobile.

<MATTERS EXPECTED TO PREVENT THE RECURRENCE>

It is desirable for the relevant parties such as the railway operator, the road administrator, etc., in cooperation with the administrative bodies or the relevant organizations, etc., to implement continuously the educational activities to prevent accidents, *i.e.*, the safe method of passing level crossing such as to stop once before the level crossing, to obey the procedures such as to confirm the operating status of the road warning device and to confirm the approaching train, etc., and the fact that automobile can get out of the level crossing by pushing the cross rod when the automobile was confined in the level crossing, etc.

Furthermore, as for Hon-Atsugi No.13 level crossing, it is desirable to study the installation of the "omnidirectional flash lamps" which improves the visibility of the red flash lamps of the road warning device and the "level crossing obstacle detecting device", among the safety measures against level crossings described in the safety report of Odakyu Electric Railway Co. Ltd.

<MEASURES TAKEN AFTER THE ACCIDENT>

Odakyu Electric Railway Co., Ltd., responded to the occurrence of the concerned accident, installed the level crossing obstacle detecting device in Hon-Atsugi No.13 level crossing, and attached the hanging banners to the crossing rods of the concerned level crossing indicating as

"wait a moment" for the road side and as "go ahead by pushing the crossing rod" for the track side.

In addition, the company distributed the handbills indicated the safe method to pass level crossing, and held the program to experience the operation of the emergency bottom of the simulated level crossing obstacle detecting device in the family railway class, Isehara driving school, etc.

Details can be obtained by the railway accident investigation report in the home page of the Japan Transport Safety Board, *i.e.*, <http://www.mlit.go.jp/jtsb>