

Investigation of Eyesight Required for Recognizing High Speed Signals

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An investigation was conducted to collect the fundamental data required to reevaluate the eyesight standards for the physical examination of train drivers. It was especially important to determine if drivers could recognize High Speed Signals as a train was proceeding at a speed of about 160 km/h. Test subjects were required to wear the glasses that adjusted their grade of eyesight to projected visual conditions and to identify signals from a driver's cab.

Data were acquired concerning about three aspects, "Success in signal recognition" , "Signal clarity" and "Distance necessary for recognizing signals" , for the ranger of eyesight grade from 0.4 to 1.2.