

TRACK RECORDING EQUIPMENT FOR MEASUREMENT OF TRACK PROFILES ON HIGH SPEED LINES

The introduction of the HST (High Speed Train) high speed services and the proposed APT high speed service has prompted a re-examination of the measuring bandwidth used for track recording equipment.

Calculations based on vehicle transfer functions and passenger comfort curves suggest that the present bandwidth of track geometry measuring equipment should be widened. The passenger comfort curves in current use are not proven so that the conclusions in this memorandum are only tentative. However, work to confirm the data is anticipated in the future. As an interim measure suggestions are made concerning the use of curvature and gradient data and the provision of longer wave profile measuring equipment.