

E1T BOGIE FRAME ACCELERATIONS AS RECORDED ON APT-E

Vertical and lateral accelerations of the frame of the E1T trailing bogie were recorded on the experimental Advanced Passenger Train during a series of tests in November 1974 to assist in the specification of bogie frame loading cases and vibration environment of frame mounted equipment. To assist in correlation with existing load case techniques, axlebox acceleration measurements were also made and the two sets of results are presented here in parallel.

The report presents the first high speed acceleration measurements analysed for use in load case preparation. The information was obtained over limited lengths of track, but provides valuable guides as to the variation of the bogie frame accelerations with speed and their application to higher speeds.