

PERFORMANCE ESTIMATES FOR THE HIGH SPEED TRACK RECORDING COACH

Development work was undertaken on the High Speed Track Recording Coach (HSTRC) to incorporate a computer generated alignment correction term necessary to ensure accuracy of measurement at low speed on sharp transitions. On completion of the work, tests were carried out in an attempt to provide an assessment of the measuring precision of the vehicle's systems.

The report describes the work completed to relate the precision (repeatability over supposedly identical sections of track) to the operating conditions, focusing on vehicle speed, vehicle orientation and track characteristics.

The results indicate a degradation of performance at low speed, but no other significant systematic effects. The report proposes a revised performance specification for the HSTRC.