

## SELF PROPELLED TRACK RECORDING COACH SPECIFICATION FOR ON BOARD REAL TIME SYSTEMS

The report specifies the functional aspects of a computer system and its software applicable to a medium self propelled track recording coach.

In terms of the manner in which the data is analysed and in the format of reports and data transfer media the system will be identical to that of the High Speed Track Recording Coach (HSTRC) in order to ensure functional compatibility. The programming requirements differ however in comparison to the HSTRC in that the programme is not used to calculate actual track parameters or to carry out real time filtering of data. Thus in a number of important respects the software has been much simplified. Further simplifications are possible if the computer system is designed around two micro-processors, one dedicated to accepting input data and calculating track quality indices and the second outputting data to the peripherals. The maximum speed will be 80mile/h.