

TESTING OF THE 'LISE' TRAIN COASTING SYSTEM ON NETWORK SOUTHEAST

The report describes the results of tests performed, by Network SouthEast (NSE), to show the timekeeping and traction energy saving potential of the in-cab LISE computer system developed by PROCOS A/S for Danish State Railways. The LISE system presents real-time coasting advice to the train driver. Digital recordings from the tests were analysed by the Research Division using purpose-written software.

The tests showed that there was potential for coasting, in that, without LISE, 45% of trains arrived more than 30 seconds early. The LISE equipment was shown to give an improvement in train timekeeping plus reasonable levels of traction energy saving. Considering only those NSE train services operated by the class of stock used in these tests, and only traction energy savings, such systems could be financially attractive. However, before fleet fitment could be recommended, further tests would be required to determine the likely level of driver co-operation, and this is a critical factor. The report presents some possible technical developments and concludes with recommendations for future actions, both short and long term.