Interfleet Technology

ERTMS - System Trials & Implementation - Turnkey Fleet Fitment

Case Study

Background

Interfleet was awarded the turnkey contract for the vehicle integration design and fleet fitment of ERTMS to the Class 158 Cambrian fleet. The fitment of the fleet is part of the Cambrian Line EDS (Early Deployment Scheme) which is the first project in the UK, managed by Network Rail, to implement ERTMS.

Scope

The scope of design involves the fitment of a 19 inch cabinet, housing the EVC (European Vital Computer) to one vehicle saloon, a DMI touch screen (Driver Machine Interface) which provides the driver with route information, a speedometer in each cab, Doppler radar, under frame mounted Eurobalise antennas and roof mounted GSM-R GPS and Data antennas. All the above systems are connected utilising a pre-tested, plug and play harness designed and optimised to reduce the vehicle downtime during fitment. We were additionally required to provide:

- Management of the trial fit programme
- Procurement and management of installation kits for trial and production fitment
- Production of user maintenance documentation for each vehicle class
- Technical support for the trial fit
- Project engineering of fleet installation
- Regulatory approval of the installation designs through VAB (Vehicle Acceptance Body) approval for each vehicle modified

Interfleet worked directly with the client, Ansaldo STS, and a series of stakeholders including the vehicle owner, operator and Network Rail. Matt Phillips, Head of Projects at Ansaldo STS said: *"Interfleet have done a superb job of design and installation of the ERTMS equipment. They have been pivotal in helping to build a highly effective team to ensure on time delivery of what is a highly challenging and revolutionary project for the UK rail industry."*

Benefits

Interfleet's use of 3D models to produce 'live' design reviews with all the stakeholders has provided downstream benefits by avoiding redesign. The proactive close working relationship with stakeholders has also lead to a smooth delivery of completed units following fitment. The project hit a major milestone by completing 6 units by the end of October 2009.

Contact :

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