AEGIS Case Study

Project title	Plasser 08-4x4/4s
Client name	Plasser & Theurer

SCOPE/OBJECTIVE

Plasser & Theurer GmBh (Plasser) have been contracted to supply two 08-4x4/4s tampers to Balfour Beatty. These are non-continuous switches and crossings tampers with the ability to tamp on third rail, tandem tamp and tandem drive.

The machines are designed and constructed to GMRT 2400 issue 6 and RIS-1702-PLT issue 2.

AEGIS Certification Services (ACS) was appointed as the projects Notified Body (NoBo), Approval Body (UKAB), Designated Body (DeBo) and Assessment Body (AsBo).

TECHNOLOGY USED

The purpose of tamping is to be able to maintain the track to ensure that it is correctly aligned and has a smooth level along the rail. By carrying out this activity it reduces the risks of train derailment and increases ride comfort for both passengers and freight.

The maintenance of the track is completed by first lifting the track and then inserting tamping tines into the ballast and compact it under the sleepers. This action allows the height of the track to be raised.

While the tracks are lifted it is also possible to slew the track allowing for the adjustment of the tracks lateral profile. Both these actions combined restore the line and level of the track.

The amount that the machine lifts and lines the track is calculated with geometric data, this information can either be programed into the machines prior to work or calculated via a measurement run using the onboard measuring equipment.

The Plasser 08-4x4/4s tampers are fitted with four independent tamping banks, each with four tamping tines, making a total of 16 tools. The outer four tools have the ability to slew up allowing for the machines to work in third rail areas. The machines are also fitted with Smart ALC and DRP that allow for the geometric data to be calculated and analysed.

HOW WE HELPED

ACS carried out the verification work as the NoBo, UKAB, DeBo and AsBo. Using our expertise, it was possible to follow the numerous changes to legislation, verify demonstration of compliance and provide feedback.

To allow for the delivery of the machines via rail ACS completed Interim Safety verification (ISV) and produced Statement of Vehicle Conformance (SVC) certificates.

OUTCOME

Our strong relationship with our client and system expertise aids in our information reviews and allows for efficient production of Technical File (TF) for Plasser.

The TF included UK type examination certificates, GB Quality Management System Approval Certificates and Certificates of Verification against both Technical Specification of Interoperability (TSI) and National Technical Specification Notices (NTSN). A Safety Assessment Report (SAR) was also completed.

All these activities combined allowed for the authorisation of the machines onto the UK network.

AEGIS Certification Services
29 Brunel Parkway, Derby DE24 8HR
www.aegisengineering.co.uk
info@aegiscertification.co.uk
+44 (0) 1332 384 302

AEGIS Case Study

Project title	Plasser 08-4x4/4s
Client name	Plasser & Theurer

AEGIS Certification Services
29 Brunel Parkway, Derby DE24 8HR
www.aegisengineering.co.uk
info@aegiscertification.co.uk
+44 (0) 1332 384 302