

HISTORY

Belper Rail Engineering Ltd was set up in 2014 and is a well-established provider of a broad range of engineering, technical, conformance, and project management services to both freight and passenger rolling stock projects.

PRINCIPLES

Our guiding principles are as follows:

- We will work with clients to understand their requirements and agree a way forward
- We will respond to clients in a timely manner
- We take pride in delivering high quality work for clients
- We will use our detailed knowledge of legislation and standards to ensure that these are met
- As a small company with low overheads our rates are very competitive
- We have a strong desire to add value to projects

SERVICES OFFERED

Belper Rail are a compact, specialist team with extensive experience from various projects in the railway industry on both freight and passenger vehicles. Therefore, we can offer the following services based on our significant experience in these areas.

Approval Documentation

- Approvals Strategy in accordance with top level legislation e.g. RIR, ROGS
- Creation of documents to achieve authorisation for new vehicles
- Creation of Engineering Change documents (to RIS-2700-RST)
- Identification of applicable standards for a project, e.g. TSIs, RGSs, RISs, ENs, etc.
- Submissions against applicable standards in the form of clause by clause submissions



Risk / Hazard Management

- Demonstration of compliance to the CSM-RA legislation including the significance test
- Creation of a suite of documents to comply with the CSM-RA process
- Where a change is not significant the creation of documents to manage the safety risk

Project Management

- Project management for all types of projects, from a minor modification to vehicle design, manufacture, test, approvals and delivery

Design

- Feasibility / concept studies
- Design of minor components through to full vehicle design
- Production of drawings for manufacture, modifications, approvals



Engineering

- Structural analysis including FEA, hand calculations, etc.
- Detailed engineering calculations, e.g. for fatigue (BS 7608, BS 8118, Eurocodes, EN 17149), braking performance, bolted joints (following the principles of VDI 2230)

Approval activities

- Independent third-party approval in accordance with RIS-2700-RST
- Undertaking system & product audits

Maintenance and Overhaul Documents

- Production of new maintenance and overhaul documents
- Reviews, updates, improvements and enhancements to existing maintenance documents
- Production of overhaul documentation for vehicles and components (e.g. wagons, bogies)

Field Service Support

- Investigation of in-service vehicle or equipment failures
- Maintenance data analysis e.g. reviewing trends & defects and providing recommendations for optimisation

Vehicle Inspections

- Undertaking asset condition checks
- Manufacturing production inspections

