



# TPD Example Projects

**Client:** Network Rail Great Western

**Project:** Performance, Reliability, Availability and Maintainability (PRAMS) Assessment

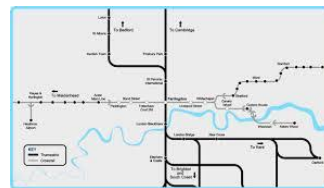
**Scope:** Validate the impact that the planned and implemented infrastructure and operational changes will have on the operation of the 2019 Principal Timetable. Provide mitigation actions that will reduce the potential for detrimental impact on the performance.



**Client:** Network Rail Thameslink Programme

**Project:** RAM Assessment

**Scope:** Satisfy the TLP Infrastructure RAM Plan and Canal Tunnels Project RAM Plan requirements and activities for GRIP Stage 5 and ensure findings from previous demonstration are being mitigated satisfactory.



**Client:** London Underground

**Project:** Victoria Line Upgrade Systems Assurance Support, SSR System Assurance Support (Independent Verification)

**Scope:** Production of Assurance Assessment Reports for new DTG-R Automatic Train Protection system to coincide with the stage delivery of the VLU Project. Working closely with the supplier, Invensys to produce credible safety case material for submission to the LU Acceptance Panel. Working with LU IVT to discharge the ICP Safety Verification and to provide independent SUP Technical Assurance and Design Compliance advice to the SRP.



**Client:** Lloyd's Register (INSIGMA)

**Project:** Independent Assessment of CBTC

**Scope:** Provision of Lead Assessor for Independent Safety Assessment of specific application of ASTS technology to Chengdu lines 1 (as a reference system in August 2011) then Chengdu line 2, Xian line 2, Hangzhou line 1 and Zhengzhou line 1 and Bombardier Cityflo to Shenzhen line 3.



**Client:** Lloyd’s Register (Taiwan High Speed Rail Corporation)

**Project:** Independent Verification & Validation of railway extension

**Scope:** TPD are providing Project Management and Lead Assessment for civils, signalling, track, power and communication extensions and new stations.



**Client:** MTR Corporation

**Project:** iESM working Group

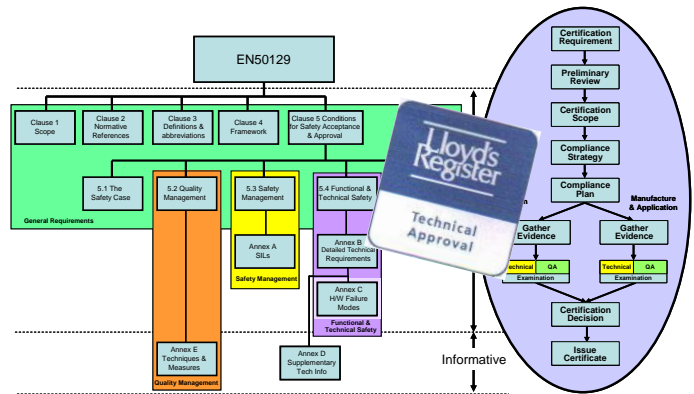
**Scope:** TPD facilitate and lead the iESM Working Group, established to review and direct TPD’s work on the international Engineering Safety Management (iESM) Guidance. TPD organised the launch conference in April 2013 and the second user group in Shenzhen in April 2014 and run the Working Group of practitioners who meet four times a year.



**Client:** Lloyd’s Register

**Project:** Development of Railway Product Certification process (compliant to EN45011)

**Scope:** CENELEC EN50126/50128/50129 are not easy to demonstrate compliance with, so TPD developed a set of criteria and supporting training to allow objective and repeatable assessments to be undertaken. TPD developed a framework for delivery to achieve certification of compliance for clients.



**Client:** MTR Corporation, Hong Kong

**Project:** Provision of Senior Manager Safety & Quality/Strategy and Assurance Manager

**Scope:** Unable to find a suitable recruit, MTR turned to TPD to provide an experienced manager to work within their organisation on a long term basis.



**Client:** Hyundai Rotem

**Project:** Provision of Human Factors Assurance for new trains for the Shatin to Central link line

**Scope:** Working with the supplier to get user input and develop an assurance case for the cab, passenger saloon and maintainability of the underframe.

