

# PMSafety Consultants Ltd.

## Railway Capability

[www.pmsafety.co.uk](http://www.pmsafety.co.uk)

### PROJECT MANAGEMENT



Docklands Light Railway

### WITHIN EUROPE & INTERNATIONALLY



Alstom Pendolino, Euston

### RELIABILITY



ICE Train

### AVAILABILITY



Old Oak Common Depot

### MAINTAINABILITY



Maglev, Shanghai

### SAFETY



Nuneaton Station

*PMSC Ltd provides a fully integrated Reliability, Availability, Maintainability and Safety (RAMS) Solution to the Railway Industry, both within Europe and Internationally. We specialise in the application of the emerging Euro Norm 50126 which provides a common template for the application of RAMS to Railway projects (Infrastructure and Rolling Stock).*

*We provide services in the following areas:-*

- Application of RAMS using EN50126
- Provision of RAMS planning documents
- A combined Assurance/Integration regime
- Hazard Identification (PHA/HAZOP)
- Software Assurance (IEC61508)
- Fault & Event Tree Analysis
- Project Safety Cases
- Safety Audit Plans
- Human Factors & Ergonomics
- Reliability Centred Maintenance (RCM)
- FMECA
- Fire Safety Strategy (BS6853)
- Fire Testing/ Coordination



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Some Previous Rail Projects

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### KAWASAKI HEAVY INDUSTRIES

General Assistance to KHI on the Taiwan High Speed Railway Project

### SCOTT WILSON RAILWAYS

Collaboration to develop a new Systems Assurance Unit within their Railway Division

### LONDON UNDERGROUND LIMITED

- Safety Case Scoping Study for the Jubilee Line Extension
- Hazards Review/QRA Model & Database for

### KAWASAKI HEAVY INDUSTRIES, NIPPON SHARYO JOINT VENTURE

- Systems Assurance for C751B EMU
- Systems Assurance for C751B EMU—R&M

### RAILTRACK MAJOR PROJECTS DIVISION

- Safety Analysis Report
- Hazards Operability Study for Ballast Gluing—Channel Tunnel Routes
- Hazards Operability Study Guidance Documents
- European Passenger Services Operation North of London
- Safety Case for ECML Infrastructure Change to Enable Class 373/2 & Class 365/5

### TR JONES

Contractor's Safety Case

### OWEN WILLIAMS RAILWAYS

Risk Assessment for the Stafford Cross-Over

### TAIWAN SHINKANSEN CORPORATION (TSC)

RAMS Advisors for Taiwan High Speed Rail Project

### ITOCHU, KINKI SHARYO, KAWASAKI (IKK) CONSORTIUM

Preparation of Safety Submissions for the SP 1900 EMUs for East Rail and West Rail

### SIEMENS TRANSPORTATION, ERLANGEN

- Safety Support to Heathrow Express Project Team
- Secondment for Regional NE Railways/ Northern Spirit Project
- Secondment to provide Safety Support to DESIRO UK Project

### NEC SYSTEM INTEGRATION & CONSTRUCTION LIMITED

C760 TCI Software Plan

### WESTINGHOUSE SIGNALS

Failure Modes, Effects & Criticality Analysis of Signalling - Jubilee Extension

### ANATAGRADE ELECTRICAL LIMITED

General Safety Support

### AREVA T&D UK LIMITED

Preparation of Contractors Assurance Case

### BLUE PRINT RAIL SUPPLY LIMITED

Assistance to Alstom Renovation Ltd on refurbishment of their DLR two car vehicles

### RAILTRACK WCML ROUTE MODERNISATION

- Secondment of a Safety Engineer to WCML RM Safety Manager, Re-Signalling
- Secondment of a Safety Engineer to WCML RM Safety Risk Manager
- Secondment of a Safety Engineer to WCML RM NMC Safety Manager

### KAWASAKI ITOCHU TOSHIBA CONSORTIUM

Support to the KIT Consortium for C830 Marina Line Bid

### BOMBARDIER TRANSPORTATION SYSTEMS

Secondment of Safety Engineer for Safety Audit for new light railway in Kuala Lumpur

### INTERFLEET TECHNOLOGY

- Heathrow Express EMU Document Review
- Various small safety & reliability projects
- HAZOP Study
- Safety Risk Manual
- HAZOP for HEX

### BLUE PRINT ENGINEERING SERVICES FOR POWELL DUFFRYN

- Risk Analysis of LTF 25 Wheel Set
- QRA of LTF 25 Wheel Set

### FERSON CONTRACTORS LIMITED

Contractor's Safety Case

### RAILTRACK THAMESLINK 2000

Secondment of Safety Engineer as RAMS Coordinator

### THOMAS VALE

Contractor's Safety Case



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