

Typical McLellan Projects for Network Rail and Operating Companies

- Technical Studies for Principal Power Supply Points for Signalling Systems
- Lightning Protection Study for 29 Trackside Buildings in the Reading area
- High Mast Floodlighting for Freightliner Terminal in Cardiff
- Electrical Documentation and Testing Programme for 17 Stations on the West Coast Main Line for Virgin Trains Ltd
- Recording of harmonics at 30 substations in the South East area.



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Rail Experience



Consultants • Engineers • Project Managers



McLellan Infrastructure and Rail

McLellan is a well established professional engineering consultancy. Located in West Byfleet, Surrey close to international airports and motorways, McLellan has a wide international Client base and has been providing services for more that 80 years. McLellan's services span a range of manufacturing and service industries, including energy and infrastructure, in which the Rail Industry features prominently.

A permanent multidisciplinary staff is maintained supported by all appropriate standards, engineering design applications and CAD services. Continuous professional development programmes ensure staff are always up to date.

McLellan has undertaken commissions for London Underground and National Rail Operating Companies since 1984 and has been an LUL Mechanical and Electrical Engineering (M&E) Services Framework Consultant continuously since 1996. Numerous commissions have been

undertaken directly with LUL, the LUL Infracos and also as a sub-consultant to Framework Contractors.

Services

Engineering excellence is key to McLellan. The consultancy provides a full range of services for the refurbishment of existing or development of new stations above and below ground, including

- Scoping and Feasibility Studies
- Mechanical and Electrical Design
- Specification to LUL and NR Standards
- HV System and protection studies
- RAMS Studies (Reliability, Maintainability, Safety)
- Contract preparation and management
- Health & Safety and CDM
- Project planning, implementation and support
- Human factors studies.

McLellan Rail Experience

Typical McLellan Projects for London Underground

- Cooling the Tube Programme (CTP) Borehole Scheme at Green Park Station (RIBA Stage E/F) - M&E Services Design, Control Systems, Systems Engineering, Human Factors Studies and Fire Systems Engineering
- London Underground Power Upgrade Project acting as part of the Independent Design Authority providing Assurance Services reviewing the building services (M&E) designs
- East London Line - Upgrade of six stations with detailed Mechanical and Electrical design of Interior and Exterior Lighting, Emergency Evacuation Lighting, Electrical Distribution, Cable Management Systems, HVAC Systems, Fire Mains, RAMS Studies, HV cable diversion works, ventilation solutions and site support of M&E installation works
- Cooling the Tube Programme RAMS and Systems Engineering for RIBA Stage D Report for Jubilee Line Mid-Tunnel Ventilation Shafts
- Railway Station Modernisation Designs:
 - Westbourne Park Station** Refurbishment, M&E Design
 - Knightsbridge** Congestion Relief Project, Modernisation Project and Detailed Electrical Design
 - Stanmore** Third Platform Electrical Design
 - Buckhurst Hill Station** Detailed Design, M&E, Fire & Communication
- Neasden Control Centre Upgrade Enabling Works M&E Design
- Installation of Enhanced Track Feeder Protection for 55 circuit breakers in 23 substations.