

Helping LU to Meet Increased Passenger Demand SelTrac System Implementation

Contract: Jubilee & Northern Line Signal Upgrade
Client: Tube Lines Ltd.
Main Contractor: Thales Rail Signalling Solutions Ltd.
Dates: August 2007 - Ongoing



Key success factors and innovations

- Quality and professionalism of the initial IRSE licensed resource engaged on the project recognised by client and requested additional installation resources
- Set up and managed an IRSE based mentorship scheme to produce additional IRSE licensed resource for the contract as requested by the client and was carried out by our own team of IRSE approved Workplace and Competence Assessors and Internal verifiers
- Assist the client in keeping transportation costs down by supplying transportation for staff and materials throughout the Jubilee and Northern Lines
- Reliable and flexible team provided to the client throughout the contract as the competency requirement increased

Background:

As part of London Underground's investment to increase network capacity and reduce journey times, a new, state-of-the-art signalling system is being installed on the Jubilee and Northern Lines.

Thanks to our growing reputation for technical competence and high quality delivery, as demonstrated on similar projects, Kelly ITS secured a contract to work with Thales Rail Signalling Solutions Ltd. to install the new signalling system.

Scope of work:

The project requires the installation of the new TBTC SelTrac signal system; it includes all signal and electrical equipment used in the Signal Equipment Rooms and on the trackside. It also includes the interfaces with existing point mechanisms.

The signalling services included SER signal wiring, signal correlation, 7pr and 3pr concentric cables, 10c, 6c, 4c and 2c multi-core cables, RG22, C23, C28 and Cat5 cables, 2c multi-core telecom cable and concentric and multi-core cables. We installed all cables into cable management system by heat shrinking and glanding of cables at cabinet entry points and also crimping of signalling cables. This also involved working with power and earth cables.

The Electrical services involved LV power installation, testing and commissioning which included containment, brackets, low voltage equipment and wiring systems, uni-strut and brackets to accommodate the electrical cables wiring to design of isolation switches, power distribution boards, uninterrupted power supplies, bypass switches and transformers, steel wired armoured (SWA) and LSF PVC cables, SEB and associated cabling.

The mechanical services involved cable management system installation which including vertical and horizontal uni-strut and modular fixings, high level and low level cable management systems, ladder racking within cable management system as well as floor and wall mounted equipment cabinets and relay racks.

