London 2012 Projects

VERTEX systems engineering

THE BRITISH ASSESSMENT BUREAU ISO9001

RISQS RAILWAY INDUSTRY SUPPLIER QUALIFICATION SCHEME

CASE STUDY

Overview of Deliverables

In order to prepare for the 2012 Olympic Games a rail network upgrade of the Stratford and North London Lines was required to meet the anticipated travel demands. For this Multi-Million Pound upgrade, Vertex was requested to provide services for key pivotal areas such as engineering management and signalling project engineering.

Vertex were also requested to provide a number of Safety Cases and to deliver the Statement of Safety Verification certificate via the CIP for each GRIP stage in accordance with ROGS requirements. These services were successfully provided for the first 5 stages of the North London Line, Angel Lane, Lee Valley on Network, alterations to DLR operations and reconnection of the Network Rail to High Speed One link. Vertex provided the safety case for the High Speed One link.

Deliverables Included:

ROGS Application (All Stages) and CIP Liaison;
Stakeholder Management;
Project Integration/fringe Management and
Safety Case production.

Technical competencies applied in the delivery of the contract

Vertex Engineers employed the following competencies during these works;

- Technical knowledge of the proposed system in question, incorporating over 20 years' experience in project development and delivery and adhering to the GRIP process.
- Systems Engineering- appreciating the impact of the proposed solution in terms of its whole-life

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implementation. This included Project Management, Stakeholder liaison and influence, in order to drive the project forward on the agreed timescales whilst maintainer stakeholder confidence
- Safety Engineering
- Detailed understanding of ROGS regulations and their application across complex, multi-stage works to gain Statements of Safety Verification

Value added initiatives

Vertex fast tracked the initial ROGS application, engaging the CIP at early stage by obtaining buy in and agreement for Entry into Service. This meant an understanding/agreement was reached early on during the project which provided ease for the project to reach EIS early on thus making efficiencies on time and cost. A consistent approach was applied for each project stage, leveraging lessons-learnt from previous stages in order to streamline each subsequent application. Known issues were raised early, in order to prevent delays to the project.

Programme start and completion dates

Project duration from 2008 – 2012 with every milestone achieved as per the base plan.

Resources utilised

Vertex utilised its team of Railway Systems Engineers and Project Managers for this project. Qualification held includes membership of the Institution of Railway Signalling Engineers, membership to the Association of Project Managers (MAMP), Project Management Professionals (PMP) and professional Chartership (C.Eng.). Combined railway experience of the project team (4 persons) exceeded 60 years.

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