



Selhurst REB Upgraded Manufacture

The Challenge

Network Rail Capital Delivery team identified there was severe CAT 4 wire degradation within an REB (Relocatable Equipment Building) at London's Selhurst Depot. This was unearthed during their routine maintenance activities and was quickly escalated due to the significant risk of potential signalling failures on the network controlled by the Selhurst REB.

The REB at Selhurst hadn't seen any design specification changes and the only drawings for the design of the REB were the original drawings dating back to 1987.



The Solution

Network Rail reached out to Unipart Rail to support them with this problem and through close collaboration between the teams an effective solution was reached.

The Unipart Rail team understood the customer's needs and limitations of the projects, they quickly grasped the enormity of the project and with their decades of REB design & manufacture experience have been able to work with the 1987 drawings which were supplied as part of the contract of works / project brief.

The manufacturing competency and integrity of the Unipart Rail team ensured they were able to deliver a credible design for manufacture within the very short 8 week lead time.

The design recommendations and changes made to the original drawings were managed through the "red & green method for changes" process, ensuring wherever possible new technologies replaced old and modern manufacturing techniques were implemented.



The Result

The overall success of this critical piece of maintenance work capitalised upon the deeply embedded knowledge of the team working on the project, their agile and flexible working practices and a very driven commitment to delivering a current design specification standard REB based on 30 year old design & technology drawings.

During this project a number of milestones were achieved:

- Circuitry design that was incorrect was corrected and the team also advised and assisted with the design rack layout
- The REB was too small to hold the volume racks required so the team adapted the layout plan to ensure all the equipment racks were able to be installed with sufficient lighting
- On-site 3A verification testing was undertaken within a 3 week time frame to ensure that the REB was successfully delivered for the handover date and in time for the possession booking
- 60I relays were re-serviced by the Relay team at Crewe & delivered back for installation into the REB
- 25 km of wire was used within the REB where each wire was manually terminated
- The overall installation included various types of equipment such as relays, relay bases, transformers and telecoms equipment

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