

LNE 650v SIGNALLING POWER DISTRIBUTION RENEWALS

Project Summary

Client: Network Rail

Timescale: January 2013 – Ongoing

Linbrooke Disciplines: Power

Linbrooke Services Utilised: Survey, design, construct, testing and commissioning, handback

Customer Objective

To replace the existing signalling lineside feeder systems at Healey Mills and Leeds East sections with new class II signalling lineside feeders.

Project Overview

As a two-phase project undertaken within a challenging, high-theft area, Linbrooke were selected to replace the aged and deteriorated signalling lineside feeder systems at Healey Mills and Leeds East sections. This involved carrying out detailed design to provide suitable locations for new equipment.

Installing the brand new class II signalling power cable, Linbrooke were also required to train circa 50 members of the Network Rail staff in order to enable them to use such equipment appropriately.

“Well done and thank you to Linbrooke for our first commissioning success... it is always satisfying to get the first one under our belt!”

- Stuart McIvor, Network Rail Scheme Project Manager

Linbrooke Project Scope

Working collaboratively with Network Rail, GGP Consult, Atkins, Optimus Services Limited, British Transport Police and Samuel James, Linbrooke were responsible for the undertaking of various phase 1 and 2 works, including:

Phase 1:

- 44 km of cable route, including extensive route burial
- Cable turning chambers enabled for Functional Supply Points (FSPs)
- Under Track Crossing (UTX) installation
- Enabling for phase 2
- Installation of Fibre Glass Tape (FGT) Enhanced Class II signalling power cable

Phase 2:

- 2 brick built Principal Supply Points (PSPs)
- 3 existing PSP modifications
- 4 Auxiliary Supply Points (ASPs)
- 134 Class II Functional Supply Points (FSPs)
- Camlin auto-reconfiguration units at strategic locations
- Completion of cable route into PSPs, ASPs and FSPs
- Completion and termination of power cabling
- Commissioning of new dual end fed class II feeders
- PSP alarm connections to intelligent infrastructure through Findlay Irvine Data loggers

Throughout the project, Linbrooke collaborated closely with the British Transport Police in order to find safer locations for the equipment and provide new security methods on the Network Rail Infrastructure.

Benefits of working with Linbrooke

Displaying strong inter-industry relationships and an ability to collaborate effectively, Linbrooke provided continually effective communication links, innovative best practice and a successful project delivery. We also supplied the in-house resource to appropriately train and upskill clients.

To ensure successful project delivery, we consistently provide:

- A strong, detailed understanding of the technical scope
- A full delivery of telecoms, signalling, power, civils and track which ensures multidisciplinary efficiency
- An impeccable health and safety record
- The ability to adjust to project alterations rapidly – and provide alternative solutions when required
- A highly skilled and experienced work force
- Strong relationships with a number of industry experts