



New Build 132kV GIS Substation, Grantham

Client

Western Power Distribution (WPD)

Project & Location

Grantham

Duration

Start: March 2016

Completion: October 2017

Approx. Value

£800k

Scope of Works

- Construction of GIS Switch Building
- Extensive P/C and M/C Ducting, Trough and Cable Works.
- Exterior Works inc Drainage, Access Roads, Surface Works, Fencing.

PROJECT OVERVIEW

Instalcom was appointed by WPD as Principal Contractor to construct a new 132kV GIS substation. The works included the piling foundations, where a capping beam was used to tie-in the piling to create the foundation for the cast in-situ concrete floor slab incorporating a cable troughing system. The works included the installation of a steel portal frame with an insulated cladding roof and facade, building services and structural cable management including heating, lighting, dehumidification and fire protection, with support from OEMs to install, test and commissioning switchgear and distribution equipment.

Instalcom completed all associated civil engineering works to include trench excavations and duct installation HV, EHV and multicore cables, to include the construction of draw pits and road crossings whilst maintaining continued access to the site. The works also included the installation and testing of the new earthing grid and necessary bonding. The civils also required the construction of surface and foul water drainage systems, erection of palisade security fence including gates, removable fence posts and the construction of site access roads.

DELIVERY & INNOVATION

- Instalcom appointed as Principal Contractor.
- Works were completed safely, on time and to budget.
- Instalcom adopted a collaborative approach in working with WPD and their other contractors appointed to the works. Including Original Equipment Manufacturers (OEM's)
- Instalcom implemented a safety behavioural programme initiative 'mindset'.

KEY CHALLENGES

- Interface with multiple stakeholders
- Restricted plant movements
- Vehicle Access and Egress
- Multiple Simultaneous Activities and Subcontractors
- Working to meet outage requirements.
- Full Delivery inc Commissioning package to meet program requirements.



New Build GIS for Rail Infrastructure Interface

Instalcom Ltd

PROJECT KPIs

- Achieved ZERO harm.
- No Incidents.
- Full compliance with technical specifications and high-quality engineering.
- Full Compliance with Programme Milestone Dates.
- Exceeding Customer Care Expectations.
- Proactive communication with stakeholders and third parties.



CONTACT US

Want to know more about the Instalcom infrastructure service offering in the following sectors:-

- Power
- Water
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- Rail
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