

# LUL Power Upgrade 22kV & Fibre Optic Cable Installation

## Best Practice Case Study



### Project Data

**Client :** TFL

**Location :** Griffiths House to Royal Oak

**Main Contractor :** Murphy

**Completed :** 2019

### Project Overview

The LUL package 10 was for the design and installation of two metered 24MVA rated 22kv cable circuits and associated fibre optic cables from London Underground Griffith House Bulk Supply Point (BSP) to Crossrail (CRL) Royal Oak Portal Head House Substation for the purpose of supplying the CRL (non-traction) 22kv distribution system.

### Scope Of Work

NCCT were contracted to install the HV and fibre optic cables and associated works .

The works included but were not limited to -

- Carry out intrusive survey to enable completion of detailed design
- Install / extend new and existing cable hangers and posts to trackside walls along route
- Carry out load tests on all fixings
- Installation of new trough routes
- Installation of HV cable from engineering train and fix to new bracketry and troughs
- Installation of fibre optic cables
- Joining , termination and connection of cables

