

HV / LV Distribution System Upgrade Harbour Exchange

Installation & Commissioning



Improvements to a 24/7 occupied building

CBRE, Towers 1 and 2 Harbour Exchange, Isle of Dogs

Scope of Works

- Installation & Commissioning.
- Tight power outage constraints on essential circuits.
- Reconfigure Landlords / Tenants maintained LV Supplies.
- Upgrade Transformer / HV Supply monitoring system.
- Work in conjunction with other contractors, upgrading the LV Distribution Panels.

The Task

Power Testing Ltd successfully won the contract to upgrade the existing HV/LV power distribution system within two 18 storey office blocks. Works involved the transfer of all Tenant generator backed supplies from an existing Landlords system onto a "spare" 1000kVA mains / generator backed substation.

This necessitated the modification of 2 No Siemens 1000A busduct's and installing new cable risers and distribution boards from floors 3 to 16. Shutdowns were then agreed to transfer each Tenant onto the new system. The building has four, 25-year-old, 2000kVA resin cast transformers that we were tasked with inspecting and upgrading the temperature \ voltage monitoring devices.



The client was delighted that this critical project was delivered free of risk and unplanned outages.

Project Achievements

- Worked closely with CBRE to minimise operational risks & disruption to the 24/7 occupied building users.
- Careful planning and coordination to ensure shutdowns were kept to a minimum.
- Efficient project management involving third parties.
- Cost savings by utilising an existing changeover system – saving the need for ATS panels.
- Successful transfer of Tenants supplies from the Landlords Essential Panel onto a dedicated Tenants Essential Panel.
- Ensured the compatibility of the transformer monitoring system with new Building Management System.
- Identification and mitigation of project risks.
- Safe cable containment, pulling and installation.
- Plant movement / disposal.
- Switchgear installation and commissioning.

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