

1 x 550kVA Diesel Generator Set



Project Brief

To design, manufacture, install and commission a 550kVA standby generator to be installed at roof level on a nine storey building to support two separate banks.

This included the design and installation of a common basement fuel storage facility and fuel transfer system to roof level generator 'day' tanks.

**A leading UK bank in
the City of London**

Job No: TGC7337

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CASE STUDY



The Generator Company organised road closures and traffic management to allow for the delivery to the roof level of the site in Central London over the weekend.

Design

A large 16,000 litre bulk storage facility was installed to supply both sets within an existing basement with limited access via a vehicle lift and narrow pedestrian corridors.

Six individually bunded tanks were linked and a common fuel line installation was welded pipe in pipe and a spill return was created in the interstitial space between the pipes. Unimpeded access also had to be provided to drainage inspection man holes in the floor of the tank room.

A duty standby pump set with common pump control panel was installed at basement level to supply fuel to the two sets.

The complete fuel system complied with DEFRA oils storage regulations and was signed off by the Fire Officer.

Installation

Installation of two separate main supply cables from main LV panel located at basement level to roof mounted change over panels. These were routed along side the fuel pipes through risers with restricted access.

Generator output cables were laid across the roof at high level to the change over panel.

Load cables were installed from the change over panels down to the sixth and seventh floor where the banks are located.



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