

National Portrait Gallery

St Martins Place
London WC2H

The Project

Replacement of existing steam generating boilers

Contract Value:
£270,000

Contract Period:
12 Weeks (Construction Phase)

Scope of Works:

- Strip out of redundant services and plant
- Replacement steam generating boilers
 - Plant testing and commissioning
 - Plant handling and specialist assembly
- Small power installations
- New pipework and valves
 - New steam, water and gas metering
 - Thermal insulation
 - Water treatment
 - BMS and controls modifications
- Ventilation modifications
 - Boiler flues
- Builderswork in connection
 - Waste management and recycling

Consultant:
Troup Bywaters & Anders

Client:
National Portrait Gallery



Skanska's Specialist Works team carried out the replacement of two existing gas fired steam generating boilers serving the gallery, offices and restoration/storage areas. The new boilers each rate at an output of 1000kg/hr of steam @ 100degC.

The requirements for the installation were to replace the existing boilers whilst maintaining steam supplies to the gallery. It is essential that specific temperatures and humidity levels are kept constant in the gallery to ensure the portraits/artifacts remain in peak condition.

This was achieved by keeping the existing boilers in operation while the new installations were progressed. The new steam pipework was prefabricated off site which helped minimise installation time and loss of steam to the gallery.

With only a minimum period allocated for the changeover between the old and



new systems the Specialist Works team completed the works in the required programme period with all systems fully operational to satisfy the exacting environmental conditions within the gallery. □