



Project	Guy's Hospital
Client(s)	Guy's & St Thomas' Hospital Trust, London
Location	Guy's Hospital, London
Project Start Date	March 2007
Project Completion Date	August 2007

In order to meet the increasing electrical load requirements of Guy's Hospital, HVMS were employed to install and commission a new 11kV distribution substation on the Guy's Hospital site.

HVMS were appointed Principal Contractor for the Construction Design & Management (CDM) Project. HVMS Major Projects Team were already familiar with CDM Regulations, but due to the project timescale had to manage the project under the new **Construction (Design & Management) Regulations 2007** brought in on the 6th April 2007. The Construction Phase Health and Safety Plan was prepared by HVMS in line with the new Regulations and approved by the CDM co-ordinator prior to HVMS setting up on site.

The HVMS Major Projects team drew on HVMS experience of the existing Hospital infrastructure having previously completed maintenance on the site.

Working closely with the Hospital Trust Senior Authorised Person and Consulting Engineer, the required circuits were isolated and proved dead. The timing of the project and the point at which the works were undertaken was critical, as Hospital supplies had to be maintained at all times. This involved movement of open points on various circuits to facilitate the works whilst maintaining programme. The works were carried out under the direct supervision of the HVMS SAP.

HVMS successfully executed the following works at Guys Hospital:

- ▶ Site excavations, and below ground services removal / diversion
- ▶ Brickwork, Blockwork and Rendering
- ▶ Removal of redundant cables
- ▶ Installation of new 11kV packaged sub-station and enclosure
- ▶ Installation and erection of switchgear panel
- ▶ Connection of intertripping protection systems, restricted earth fault, and connection of main LV tails from new HV Substation
- ▶ Pre-commissioning tests on switchgear and protective devices
- ▶ Installation of new 11kV cable and containment systems
- ▶ Installation of new 415kV cable and containment systems
- ▶ HV and LV terminations of new cables
- ▶ Installation of new earthing system for HV and LV installations
- ▶ Reinstate all excavations

Upon completion of the required works, safety documents were cancelled, the network was tested and pre-agreed switching was carried out to restore the HV & LV network to normal running conditions.

The Hospital Trust Project Manager responsible for the Upgrade Works, Mr Hayden Velinor confirmed, "HVMS helped ensure the Trust's network could safely and efficiently be upgraded to meet the growing load requirements within budget and programme and I would particularly like to thank Ian Eastwood (HVMS Site Manager) for his effort in completing works."