



## UK Data Centre UK4 Feltham DC replacement program

### PROJECT DETAILS

#### Client

Global Data Centre

#### Consulting Engineer

Eta Projects Ltd

#### Value

£352,000.00

#### Timescale

3 months

### DESCRIPTION

The existing Nortel DC Systems were over 15 years old and by today's standards were large, complicated and inefficient. The systems had originally been intended to be used as true A & B DC System's supplying dual feeds to all equipment within the data centre. Over the years this had not been adhered too and many dual fed pieces of equipment had been connect to only one of the two systems, also there was some legacy equipment (mainly from third party users in the data centre) which had a single supply. All these supplies and the standby batteries were to be changed to two energy efficient new Eaton 240KW DC Systems without loss of service.

### OBJECTIVES

Install the Eaton DC Systems and migrate the supplies/batteries from the old Nortel DC Systems over to them without any loss of service to customers, commission systems, Alarms and remote monitoring via the clients intranet.

### DESIGN

It was agreed with the client for a staged approach to the installation of the new DC Systems. The first Eaton DC System was to be installed and all supplies/batteries migrated without loss of service, the first of the old systems was then to be de-commissioned and the second new Eaton DC System installed on its foot print. All services were changed over (again without any loss of service) and finally the last of the old systems was de-commissioned and removed.

### SPECIFIC DESIGN REQUIREMENTS

Once given a Scope of Works from the client, Eta Projects worked with various suppliers to come up with a suitable design for the new DC Systems, once the designs were finalised we worked with the client to decide which design best suited their needs. Finally the installation phase was undertaken and all services to this multimillion pound data centre were maintained during the phased changeover of supplies, an innovative new method of jointing existing supply cables was proposed by Eta Projects and used in the final installation.