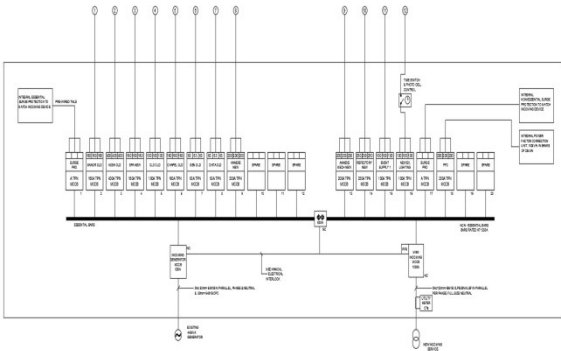




Upgrade of the main UKPN LV supply serving the entire site including provision of new main LV Switch Panel and sub-main cabling to serve all existing and proposed facilities throughout. AMA appointed for Electrical services design full duties.

Client: Religious Facility
 Value: £12 million
 Date: 2015

This project entailed a number of challenges. Firstly, the client was unable to offer long term shut-downs, resulting in the implementation of a complex, gradual LV changeover procedure. Secondly, there were several existing buildings located within the grounds of the facility which required either the sub-main cabling re-fed via the new switchgear, or new upgraded LV supplies and finally, provision of new LV supplies to several new buildings.



Cable Schedule											
Project Reference:	Religious Facility		Job Number:	1234 <th>Engineer:</th> <td>AMA</td> <th>Rev (Date):</th> <td></td> <th>Rev (Date):</th> <td></td>	Engineer:	AMA	Rev (Date):		Rev (Date):		
Document No.:	1 of 15		Created On:	16/10/2015	Revised By:		Revised By:		Revised By:		
SI No.	Name	Connected From	Cable	Cable Type	Length (m)	CPC (mm ²)	Separate Sheath?	UV Degr %	Protective Device	Notes	
SH-ADV	SH-ADV	SH-ADV	1 x 3 x 25	4	Phell FR400 Fire resistant cable Cu	25	0	1.30	N/A	16	MCCB N/A
SH-CHP	SH-CHP	SH-CHP	1 x 3 x 40	16	Multicore, 90°C thermosetting insulated, armoured LSF Cu Table 6B	100	16	4.03	N/A	63	MCCB N/A
SH-DB-EXT. LIT.	SH-DB-EXT. LIT.	SH-DB-EXT. LIT.	1 x 3 x 25	10	Multicore, 90°C thermosetting insulated, armoured LSF Cu Table 6B	20	0	0.95	N/A	25	MCCB N/A
SH-DB-LABORARY	SH-DB-LABORARY	SH-DB-LABORARY	1 x 3 x 40	35	Multicore, 90°C thermosetting insulated, armoured LSF Cu Table 6B	25	30	0.63	N/A	63	MCCB N/A
SH-DB-MAN.	SH-DB-MAN.	SH-DB-MAN.	1 x 3 x 40	25	Multicore, 90°C thermosetting insulated, armoured LSF Cu Table 6B	25	10	0.98	N/A	60	MCCB N/A
SH-DB-REP.	SH-DB-REP.	SH-DB-REP.	1 x 3 x 25	4	Phell FR400 Fire resistant cable Cu	25	0	1.30	N/A	16	MCCB N/A
SH-FAP	SH-FAP	SH-FAP	1 x 3 x 25	4	Phell FR400 Fire resistant cable Cu	25	0	1.30	N/A	16	MCCB N/A
SH-LFT ROZER 1	SH-LFT ROZER 1	SH-LFT ROZER 1	1 x 3 x 30	10	Multicore, 90°C thermosetting insulated, armoured LSF Cu Table 6B	36	0	1.53	N/A	25	MCCB N/A
SH-LFT ROZER 2	SH-LFT ROZER 2	SH-LFT ROZER 2	1 x 3 x 30	10	Multicore, 90°C thermosetting insulated, armoured LSF Cu Table 6B	86	0	3.30	N/A	25	MCCB N/A
SH-LFT ROZER 3	SH-LFT ROZER 3	SH-LFT ROZER 3	1 x 3 x 30	10	Multicore, 90°C thermosetting insulated, armoured LSF Cu Table 6B	86	0	3.37	N/A	25	MCCB N/A
SH-LFT ROZER 4	SH-LFT ROZER 4	SH-LFT ROZER 4	1 x 3 x 30	10	Multicore, 90°C thermosetting insulated, armoured LSF Cu Table 6B	86	0	3.37	N/A	25	MCCB N/A

AMA design method included site wide survey and load assessment, design of new LV switch panel and sub-main LV distribution throughout, including termination of services into new and existing buildings.

Key points:

- Thorough site wide load assessment
- Detailed design and calculations
- Careful implementation of LV changeover



No 5 Level 5 (South)
 New England House
 New England Street
 Brighton BN1 4GH
 T +44 (0)1273 601759
 F +44 (0)1273 604319

Argent House
 Wild's Rents
 London SE1 4QG
 T +44 (0)20 7043 4634
 F +44 (0)20 7378 0036