

PERIODIC INSPECTION REPORT
(BS 7671:2008 as amended)

292623 - Macfar

DETAILS OF THE CLIENT

Client	Kensington & Chelsea TMO	Address	Charles house 375 Kensington high street London W14 8QH
Purpose of this report	Clients request		

DETAILS OF THE INSTALLATION

Occupier	Kensington and Chelsea TMO	Description of premises	Domestic <input checked="" type="checkbox"/>	Commercial <input checked="" type="checkbox"/>	Industrial <input checked="" type="checkbox"/>
Address	Grenfell tower Grenfell tower Grenfell road Lancaster west estate London W11 1TG	Other	Communal areas		
Date of previous inspection	Not Known	Electrical Installation Certificate No or previous Periodic Inspection Report No	N/A		
Records of installation available	<input checked="" type="checkbox"/>	Records held by	N/A		
		Estimated age of the electrical installation	12	yrs	
		Evidence of alterations or additions	<input checked="" type="checkbox"/>	If yes estimated age	N/A yrs

EXTENT AND LIMITATIONS OF THE INSPECTION

Extent of electrical installation covered by this report

FIXED WIRING AND FUSE BOARDS

Agreed limitation of the inspection and testing

All areas of no access

This inspection has been carried out in accordance with BS7671:2008(IEE Wiring Regulations), as amended. Cables concealed within trunking and conduits, or cables and conduits concealed under floors, in roof space and generally within the fabric of the building or underground have not been inspected.

DECLARATION

I/We, being the person(s) responsible for the inspection and testing of the electrical installation (as indicated by my/our signatures below), particulars of which are described above, having exercised reasonable skill and care when carrying out the inspection and testing, hereby declare that the information in this report, including observations overleaf and the attached schedules, provide an accurate assessment of the condition of the electrical installation taking into account the stated extent of the installation and the limitations of the inspection.

INSPECTION, TESTING AND ASSESSMENT BY:		REPORT REVIEWED AND CONFIRMED BY:	
Signature	<i>M Chessher</i>	Signature	<i>D Stead</i>
Name	M.Chessher	Name	D STEAD
Position	ENGINEER		
Date	02/04/2010	Date	04/05/2010

SCHEDULES AND ADDITIONAL PAGES

Schedule of items inspected and schedules of items tested:	Page 4	Additional pages, including additional source(s) data sheets	Pages NONE
Schedule of Circuit Details for the installation	5 - 13 (odd)	Schedule of Test Results for the installation	6 - 14 (even)

NEXT INSPECTION

We recommend that this installation is further inspected and tested after an interval of not more than **5 Years**

Provided that any observations which have been attributed recommendation code 1 (requires urgent attention) are remedied without delay. Observations attributed recommendation code 2 or 3 should be acted on as soon as is practical.

DETAILS OF THE INSPECTION AND TEST COMPANY

Trading Title: **RGE Services**

Address: **19-21 Roebuck road
Hainault
Ilford
Essex
IG6 3TU**

Telephone number: [REDACTED]

Fax number: [REDACTED]

NICEIC Enrolment No.: [REDACTED]

Branch No. (if applicable): **N/A**

SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

* System Type(s)	* Number and Type of Live Conductors				Nature of Supply Parameters				* Supply protective device characteristics
TN-S <input checked="" type="checkbox"/>	a.c. <input checked="" type="checkbox"/>			d.c. <input checked="" type="checkbox"/>	Nominal Voltage U	400 V	U ₀	230 V	BS(EN)
TN-C-S <input checked="" type="checkbox"/>	1-Phase (2 wire) <input checked="" type="checkbox"/>	1-Phase (3 wire) <input checked="" type="checkbox"/>	2 Pole <input checked="" type="checkbox"/>		Nominal frequency f	50 Hz			1361 Fuse HBC
TN-C <input checked="" type="checkbox"/>	2-Phase (3 wire) <input checked="" type="checkbox"/>		3 Pole <input checked="" type="checkbox"/>		Prospective fault current I _{pf}	2.09 kA		Type	2
TT <input checked="" type="checkbox"/>	3-Phase (3 wire) <input checked="" type="checkbox"/>	3-Phase (4 wire) <input checked="" type="checkbox"/>	Other <input checked="" type="checkbox"/>		External loop impedance Z _e	0.11 Ω		Nominal current rating	400 A
IT <input checked="" type="checkbox"/>	Other	N/A			Number of supplies	1		Short circuit capacity	88 kA

PARTICULARS OF INSTALLATION REFERRED TO IN THE CERTIFICATE

* Means of Earthing		Details of Installation Earth Electrode (where applicable)			
Distributor's facility <input checked="" type="checkbox"/>	Installation earth electrode <input checked="" type="checkbox"/>	Type (eg rod(s), tape etc)	N/A	Location	N/A
		Electrode resistance, R _A	N/A Ω	Method of measurement	N/A

* Main Switch or Circuit-Breaker				Maximum Demand (load)		Protective measure(s) against electric shock																																	
Type BS(EN)	5419 Isolator	Voltage rating	400 V	280 Amps		ADS																																	
No of poles	3	Current rating	400 A	Earthing and Protective Bonding Conductors <table border="1"> <tr> <th colspan="2">Earthing Conductor</th> <th colspan="2">Main protective bonding conductors</th> <th colspan="2">Bonding of extraneous conductive parts</th> </tr> <tr> <td>Material</td> <td>Copper</td> <td>Material</td> <td>Copper</td> <td>Water</td> <td>Gas</td> </tr> <tr> <td>Supply conductors material</td> <td>Copper</td> <td>RCD Operating current, I_{Δn}</td> <td>N/A mA</td> <td>Oil</td> <td>Steel</td> </tr> <tr> <td>Supply conductors csa</td> <td>16 mm²</td> <td>RCD Operating time at I_{Δn}</td> <td>N/A ms</td> <td>Lightning</td> <td>Other</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>N/A</td> <td>N/A</td> </tr> </table>						Earthing Conductor		Main protective bonding conductors		Bonding of extraneous conductive parts		Material	Copper	Material	Copper	Water	Gas	Supply conductors material	Copper	RCD Operating current, I _{Δn}	N/A mA	Oil	Steel	Supply conductors csa	16 mm ²	RCD Operating time at I _{Δn}	N/A ms	Lightning	Other					N/A	N/A
Earthing Conductor		Main protective bonding conductors								Bonding of extraneous conductive parts																													
Material	Copper	Material	Copper	Water	Gas																																		
Supply conductors material	Copper	RCD Operating current, I _{Δn}	N/A mA	Oil	Steel																																		
Supply conductors csa	16 mm ²	RCD Operating time at I _{Δn}	N/A ms	Lightning	Other																																		
				N/A	N/A																																		
				Material	Copper	Material	Copper	Water	Gas																														
				csa	90 mm ²	csa	50 mm ²	Oil	Steel																														
				Continuity check	<input checked="" type="checkbox"/>	Continuity check	<input checked="" type="checkbox"/>	Lightning	Other																														
								N/A	N/A																														

* Where a number of sources are available to supply the installation, and where the data given for the primary source may differ from other sources, a separate sheet must be provided which identifies the relevant information relating to each additional source.

SCHEDULE OF ITEMS INSPECTED		† see note below	
PROTECTIVE MEASURES AGAINST ELECTRIC SHOCK		Prevention of mutual detrimental influence	
Basic and fault protection		<input checked="" type="checkbox"/>	Proximity of non-electrical services and other influences
<input checked="" type="checkbox"/>	SELV	<input checked="" type="checkbox"/>	Segregation of Band I and Band II circuits or Band II insulation used.
<input type="checkbox"/>	PELV	<input type="checkbox"/>	Segregation of Safety Circuits
<input type="checkbox"/>	Double or Reinforced insulation	Identification	
Basic protection		<input checked="" type="checkbox"/>	Presence of diagrams, instructions, circuit charts and similar information
<input checked="" type="checkbox"/>	Insulation of live parts	<input checked="" type="checkbox"/>	Presence of danger notices and other warning notices
<input checked="" type="checkbox"/>	Barriers or enclosures	<input checked="" type="checkbox"/>	Labelling of protective devices, switches and terminals
<input type="checkbox"/>	Obstacles **	<input checked="" type="checkbox"/>	Identification of conductors
<input type="checkbox"/>	Placing out of reach **	Cables and Conductors	
Fault protection		<input checked="" type="checkbox"/>	Selection of conductors for current-carrying capacity and voltage drop
Automatic disconnection of supply		<input checked="" type="checkbox"/>	Erection methods
<input checked="" type="checkbox"/>	Presence of earthing conductor	<input type="checkbox"/>	Routing of cables in prescribed zones
<input checked="" type="checkbox"/>	Presence of circuit protective conductors	<input checked="" type="checkbox"/>	Cables incorporating earthed armour or sheath or run in an earthed wiring system, or otherwise protected against nails, screws and the like.
<input checked="" type="checkbox"/>	Presence of main protective bonding conductors	<input type="checkbox"/>	Additional protection by 30mA RCD for cables concealed in walls (where required, in premises not under the supervision of skilled or instructed persons)
<input type="checkbox"/>	Presence of earthing arrangements for combined protective and functional purposes	<input type="checkbox"/>	Connection of conductors
<input type="checkbox"/>	Presence of adequate arrangements for alternative source(s), where applicable	<input checked="" type="checkbox"/>	Presence of fire barriers, suitable seals and protection against thermal effects
<input type="checkbox"/>	FELV	General	
<input checked="" type="checkbox"/>	Choice and setting of protective and monitoring devices (for fault protection and/or overcurrent protection)	<input checked="" type="checkbox"/>	Presence and correct location of appropriate devices for isolation and switching
Non-conducting location **		<input checked="" type="checkbox"/>	Adequacy of access to switchgear and other equipment
<input type="checkbox"/>	Absence of protective conductors	<input checked="" type="checkbox"/>	Particular protective measures for special installations and locations
Earth-free equipotential bonding **		<input checked="" type="checkbox"/>	Connection of single-pole devices for protection or switching in line conductors only
<input type="checkbox"/>	Presence of earth-free equipotential bonding	<input checked="" type="checkbox"/>	Correct connection of accessories and equipment
Electrical separation		<input type="checkbox"/>	Presence of undervoltage protective devices
<input type="checkbox"/>	For one item of current-using equipment	<input checked="" type="checkbox"/>	Selection of equipment and protective measures appropriate to external influences
<input checked="" type="checkbox"/>	For more than one item of current-using equipment **	<input checked="" type="checkbox"/>	Selection of appropriate functional switching devices
Additional protection		** For use in controlled supervised/conditions only	
<input checked="" type="checkbox"/>	Presence of residual current device(s)	<input type="checkbox"/>	Basic protection by barrier or enclosure provided during erection
<input checked="" type="checkbox"/>	Presence of supplementary bonding conductors	<input type="checkbox"/>	Insulation of non-conducting floors or walls
SCHEDULE OF ITEMS TESTED		† see note below	
<input checked="" type="checkbox"/>	External earth fault loop impedance, Z_e	<input type="checkbox"/>	Polarity
<input type="checkbox"/>	Installation earth electrode resistance, R_A	<input checked="" type="checkbox"/>	Earth fault loop impedance, Z_s
<input checked="" type="checkbox"/>	Continuity of protective conductors	<input checked="" type="checkbox"/>	Verification of phase sequence
<input type="checkbox"/>	Continuity of ring final circuit conductors	<input checked="" type="checkbox"/>	Operation of residual current devices
<input checked="" type="checkbox"/>	Insulation resistance between live conductors	<input checked="" type="checkbox"/>	Functional testing of assemblies
<input checked="" type="checkbox"/>	Insulation resistance between live conductors and Earth	<input checked="" type="checkbox"/>	Verification of voltage drop
<input type="checkbox"/>	Protection by separation of circuits		

† All boxes must be completed

✓ to indicate an inspection has been carried out and the result was satisfactory

* to indicate an inspection has been carried out and the result is not satisfactory

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N/A to indicate the inspection is not applicable to a particular item
LIM to indicate that exceptionally, a limitation agreed with the person ordering the work prevented the inspection being carried out

BOARD DETAILS		ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION			
TO BE COMPLETED IN EVERY CASE					
Location of distribution board	Main intake room ground floor	Supply to distribution board is from	N/A		Associated RCD (if any)
Distribution board designation	DB 1 GL/1	No of phases	N/A	Nominal Voltage	N/A V
		Overcurrent protective device for the distribution circuit			RCD No of poles
		Type BS(EN)	N/A	Rating	N/A A
					RCD rating, $I_{\Delta n}$
					N/A mA

Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection time s	Overcurrent protective device				RCD $I_{\Delta n}$	Max permitted Zs Ω
					Live mm ²	cpc mm ²		BS(EN)	Type No	Rating A	Short circuit capacity kA		
1/L1	1st flr lift lobby lights	B	B	7	1.5	1.0	0.4	3871 MCB	2	6	10	N/A	5.71
1/L2	2nd flr lift lobby lights	B	B	7	1.5	1.0	0.4	3871 MCB	2	6	10	N/A	5.71
1/L3	3rd flr lift lobby lights	B	B	7	1.5	1.0	0.4	3871 MCB	2	6	10	N/A	5.71
2/L1	4th flr lift lobby lights	B	B	7	1.5	1.0	0.4	3871 MCB	2	6	10	N/A	5.71
2/L2	5th flr lift lobby lights	B	B	7	1.5	1.0	0.4	3871 MCB	2	6	10	N/A	5.71
2/L3	6th flr lift lobby lights	B	B	7	1.5	1.0	0.4	3871 MCB	2	6	10	N/A	5.71
3/L1	7th flr lift lobby lights	B	B	7	1.5	1.0	0.4	3871 MCB	2	6	10	N/A	5.71
3/L2	8th flr lift lobby lights	B	B	7	1.5	1.0	0.4	3871 MCB	2	6	10	N/A	5.71
3/L3	9th flr lift lobby lights	B	B	7	1.5	1.0	0.4	3871 MCB	2	6	10	N/A	5.71
4/L1	10th flr lift lobby light	B	B	7	1.5	1.0	0.4	3871 MCB	2	6	10	N/A	5.71
4/L2	11th flr lift lobby light	B	B	7	1.5	1.0	0.4	3871 MCB	2	6	10	N/A	5.71
4/L3	12th flr lift lobby light	B	B	7	1.5	1.0	0.4	3871 MCB	2	6	10	N/A	5.71
5/L1	13th flr lift lobby light	B	B	7	1.5	1.0	0.4	3871 MCB	2	6	10	N/A	5.71
5/L2	14th flr lift lobby light	B	B	7	1.5	1.0	0.4	3871 MCB	2	6	10	N/A	5.71
5/L3	15th flr lift lobby light	B	B	7	1.5	1.0	0.4	3871 MCB	2	6	10	N/A	5.71
6/L1	16th flr lift lobby light	B	B	7	1.5	1.0	0.4	3871 MCB	2	6	10	N/A	5.71
6/L2	17th flr lift lobby light	B	B	7	1.5	1.0	0.4	3871 MCB	2	6	10	N/A	5.71
6/L3	18th flr lift lobby light	B	B	7	1.5	1.0	0.4	3871 MCB	2	6	10	N/A	5.71
7/L1	19th flr lift lobby light	B	B	7	1.5	1.0	0.4	3871 MCB	2	6	10	N/A	5.71
7/L2	20th flr lift lobby light	B	B	7	1.5	1.0	0.4	3871 MCB	2	6	10	N/A	5.71
7/L3	1st-5th flr main stairs	B	B	10	1.5	1.0	0.4	3871 MCB	2	6	10	N/A	5.71
8/L1	6th-10th flr main stairs	B	B	10	1.5	1.0	0.4	3871 MCB	2	6	10	N/A	5.71
8/L2	11th-15th flr main stairs	B	B	10	1.5	1.0	0.4	3871 MCB	2	6	10	N/A	5.71
8/L3	16th-20th flr main stairs	B	B	10	1.5	1.0	0.4	3871 MCB	2	6	10	N/A	5.71

WIRING CODE								
A	B	C	D	E	F	G	H	O
PVC/PVC cables	PVC cables in metallic conduit	PVC cables in non-metallic conduit	PVC cables in metallic trunking	PVC cables in non-metallic trunking	PVC/SWA cables	XLPE/SWA cables	Mineral insulated cables	Other

BOARD TESTS

<p>ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION</p>						<p>TEST INSTRUMENTS (SERIAL NUMBERS) USED</p>				
Zs	N/A	Ω	Operating times of associated RCD (if any)	All Δ_n	N/A	ms	Earth fault loop impedance	9571044.	RCD	9571044.
Ipf	N/A	kA		5I Δ_n (if applicable)	N/A	ms	Insulation resistance	9571044.	Other	N/A
Confirmation of Supply polarity						N/A	Continuity	9571044.	Other	N/A

CIRCUIT TESTS

Circuit number and phase	Circuit impedances					Insulation resistance				Polarity	Maximum measured earth fault loop impedance	RCD operating times	
	Ω			All circuits (At least one column to be completed)		Line/Line	Line/Neutral	Line/Earth	Earth/Neutral			At Δ_n	At 5I Δ_n
	r ₁ (Line)	r _n (Neutral)	r ₂ (cpc)	R ₁ +R ₂	R ₂	MΩ	MΩ	MΩ	MΩ			ms	ms
1/L1	N/A	N/A	N/A	0.71	N/A	N/A	200>	200>	200>	✓	1.00	N/A	N/A
1/L2	N/A	N/A	N/A	0.60	N/A	N/A	200>	200>	200>	✓	0.89	N/A	N/A
1/L3	N/A	N/A	N/A	0.65	N/A	N/A	200>	200>	200>	✓	1.12	N/A	N/A
2/L1	N/A	N/A	N/A	0.53	N/A	N/A	200>	200>	200>	✓	1.14	N/A	N/A
2/L2	N/A	N/A	N/A	0.67	N/A	N/A	200>	200>	200>	✓	1.08	N/A	N/A
2/L3	N/A	N/A	N/A	0.90	N/A	N/A	200>	200>	200>	✓	1.09	N/A	N/A
3/L1	N/A	N/A	N/A	0.83	N/A	N/A	200>	200>	200>	✓	1.16	N/A	N/A
3/L2	N/A	N/A	N/A	0.57	N/A	N/A	200>	200>	200>	✓	1.23	N/A	N/A
3/L3	N/A	N/A	N/A	0.60	N/A	N/A	200>	200>	200>	✓	1.19	N/A	N/A
4/L1	N/A	N/A	N/A	0.69	N/A	N/A	200>	200>	200>	✓	1.07	N/A	N/A
4/L2	N/A	N/A	N/A	0.81	N/A	N/A	200>	200>	200>	✓	1.11	N/A	N/A
4/L3	N/A	N/A	N/A	0.90	N/A	N/A	200>	200>	200>	✓	1.13	N/A	N/A
5/L1	N/A	N/A	N/A	0.77	N/A	N/A	200>	200>	200>	✓	1.18	N/A	N/A
5/L2	N/A	N/A	N/A	0.83	N/A	N/A	200>	200>	200>	✓	1.30	N/A	N/A
5/L3	N/A	N/A	N/A	0.68	N/A	N/A	200>	200>	200>	✓	1.06	N/A	N/A
6/L1	N/A	N/A	N/A	0.71	N/A	N/A	200>	200>	200>	✓	1.74	N/A	N/A
6/L2	N/A	N/A	N/A	0.82	N/A	N/A	200>	200>	200>	✓	1.66	N/A	N/A
6/L3	N/A	N/A	N/A	0.74	N/A	N/A	200>	200>	200>	✓	1.17	N/A	N/A
7/L1	N/A	N/A	N/A	1.08	N/A	N/A	200>	200>	200>	✓	2.00	N/A	N/A
7/L2	N/A	N/A	N/A	1.03	N/A	N/A	200>	200>	200>	✓	1.80	N/A	N/A
7/L3	N/A	N/A	N/A	0.86	N/A	N/A	200>	200>	200>	✓	1.94	N/A	N/A
8/L1	N/A	N/A	N/A	0.92	N/A	N/A	200>	200>	200>	✓	1.86	N/A	N/A
8/L2	N/A	N/A	N/A	1.00	N/A	N/A	200>	200>	200>	✓	2.02	N/A	N/A
8/L3	N/A	N/A	N/A	0.89	N/A	N/A	200>	200>	200>	✓	2.16	N/A	N/A

TESTED BY

Signature	<i>M Chessher</i>	Position	ENGINEER
Name	M.Chessher	Date of testing	04/05/2010

BOARD DETAILS		TO BE COMPLETED IN EVERY CASE		ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION				
Location of distribution board	Main intake room ground floor	Supply to distribution board is from	N/A		Associated RCD (if any)		BS(EN) N/A	
Distribution board designation	DB 1 GL/1	No of phases	N/A	Nominal Voltage	N/A V	RCD No of poles	N/A	
		Overcurrent protective device for the distribution circuit	Type BS(EN) N/A		Rating	N/A A	RCD rating, I _{Δn}	N/A mA

Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection time s	Overcurrent protective device				RCD Op. current I _{Δn}	Max. permitted Zs Ω
					Live mm ²	cpc mm ²		BS(EN)	Type No	Rating A	Short circuit capacity kA		
9/L1	Lights in intake main	B	B	2	4	2.5	0.4	3871 MCB	2	32	10	30	1.07
9/L2	Lift lobby sockets 1-4	B	B	4	4	2.5	0.4	3871 MCB	2	32	10	30	1.07
9/L3	Lift lobby sockets 5-8	B	B	4	4	2.5	0.4	3871 MCB	2	32	10	30	1.07
10/L1	Lift lobby sockets 9-12	B	B	4	4	2.5	0.4	3871 MCB	2	32	10	30	1.07
10/L2	Lift lobby sockets 13-16	B	B	4	4	2.5	0.4	3871 MCB	2	32	10	30	1.07
10/L3	Lift lobby sockets 17-20	B	B	4	4	2.5	0.4	3871 MCB	2	32	10	30	1.07
11/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
11/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
11/L3	Lights office staircase	B	B	6	1.5	1.0	0.4	3871 MCB	2	6	10	N/A	5.71
12/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
12/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
12/L3	Socket intake main	B	B	1	2.5	1.5	0.4	3871 MCB	2	20	10	N/A	1.71
13/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
13/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
13/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
14/L1	BT socket riser deck leve	H	C	1	2.5	1.5	0.4	60898 MCB	B	10	10	N/A	4.60
14/L2	Air con unit 2	F	C	1	4	35	0.4	60898 MCB	B	20	10	N/A	2.30
14/L3	Air con unit 1	H	C	1	4	35	0.4	60898 MCB	B	20	10	N/A	2.30
15/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
15/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
15/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
16/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
16/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
16/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-

WIRING CODE								
A	B	C	D	E	F	G	H	O
PVC/PVC cables	PVC cables in metallic conduit	PVC cables in non-metallic conduit	PVC cables in metallic trunking	PVC cables in non-metallic trunking	PVC/SWA cables	XLPE/SWA cables	Mineral insulated cables	Other

BOARD TESTS

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION						TEST INSTRUMENTS (SERIAL NUMBERS) USED				
Zs	N/A	Ω	Operating times of associated RCD (if any)	At Δn	N/A	ms	Earth fault loop impedance	9571044.	RCD	9571044.
Ipf	N/A	kA		Sl Δn (if applicable)	N/A	ms	Insulation resistance	9571044.	Other	N/A
Confirmation of Supply polarity						N/A	Continuity	9571044.	Other	N/A

CIRCUIT TESTS

Circuit number and phase	Circuit impedances					Insulation resistance				Polarity	Maximum measured earth fault loop impedance	RCD operating times	
	Ring final circuits only (measured end to end)			All circuits (At least one column to be completed)		Line/Line	Line/Neutral	Line/Earth	Earth/Neutral			At Δn	Sl Δn
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$R_1 + R_2$	R_2	MΩ	MΩ	MΩ	MΩ			ms	ms
9/L1	N/A	N/A	N/A	0.42	N/A	N/A	200>	200>	200>	✓	0.60	N/A	N/A
9/L2	N/A	N/A	N/A	0.39	N/A	N/A	200>	200>	200>	✓	0.48	18.0	17.3
9/L3	N/A	N/A	N/A	0.43	N/A	N/A	200>	200>	200>	✓	0.51	17.0	16.6
10/L1	N/A	N/A	N/A	0.46	N/A	N/A	200>	200>	200>	✓	0.52	19.1	17.6
10/L2	N/A	N/A	N/A	0.48	N/A	N/A	200>	200>	200>	✓	0.52	18.9	17.4
10/L3	N/A	N/A	N/A	0.44	N/A	N/A	200>	200>	200>	✓	0.64	17.8	16.0
11/L1	-	-	-	-	-	-	-	-	-	•	-	-	-
11/L2	-	-	-	-	-	-	-	-	-	•	-	-	-
11/L3	N/A	N/A	N/A	0.46	N/A	N/A	200>	200>	200>	✓	0.53	N/A	N/A
12/L1	-	-	-	-	-	-	-	-	-	•	-	-	-
12/L2	-	-	-	-	-	-	-	-	-	•	-	-	-
12/L3	N/A	N/A	N/A	0.24	N/A	N/A	200>	200>	200>	✓	0.31	N/A	N/A
13/L1	-	-	-	-	-	-	-	-	-	•	-	-	-
13/L2	-	-	-	-	-	-	-	-	-	•	-	-	-
13/L3	-	-	-	-	-	-	-	-	-	•	-	-	-
14/L1	N/A	N/A	N/A	0.39	N/A	N/A	200>	200>	200>	✓	0.48	N/A	N/A
14/L2	N/A	N/A	N/A	0.42	N/A	N/A	200>	200>	200>	✓	0.56	N/A	N/A
14/L3	N/A	N/A	N/A	0.47	N/A	N/A	200>	200>	200>	✓	0.60	N/A	N/A
15/L1	-	-	-	-	-	-	-	-	-	•	-	-	-
15/L2	-	-	-	-	-	-	-	-	-	•	-	-	-
15/L3	-	-	-	-	-	-	-	-	-	•	-	-	-
16/L1	-	-	-	-	-	-	-	-	-	•	-	-	-
16/L2	-	-	-	-	-	-	-	-	-	•	-	-	-
16/L3	-	-	-	-	-	-	-	-	-	•	-	-	-

TESTED BY

Signature	<i>M. Chessher</i>	Position	ENGINEER
Name	M. Chessher	Date of testing	04/05/2010

BOARD DETAILS		ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION			
TO BE COMPLETED IN EVERY CASE					
Location of distribution board	14st floor riser cupboard	Supply to distribution board is from	N/A		Associated RCD (if any)
Distribution board designation	DB LL1	No of phases	N/A	Nominal Voltage	N/A V
		Overcurrent protective device for the distribution circuit			RCD No of poles
		Type BS(EN)	N/A	Rating	N/A A
					RCD rating, $I_{\Delta n}$
					N/A mA

Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection time s	Overcurrent protective device				RCD Op-current $I_{\Delta n}$	Max permitted Z_s Ω
					Live mm ²	cpc mm ²		BS(EN)	Type No	Rating A	Short circuit capacity kA		
1/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
2/L1	Lights to staff room	B	B	6	1.5	1.0	0.4	3871 MCB	2	6	6	N/A	5.71
3/L1	Lights floods adj staffro	B	B	3	1.5	1.0	0.4	3871 MCB	2	6	6	N/A	5.71
4/L1	Lights w/way deck level	B	B	5	1.5	1.0	0.4	3871 MCB	2	6	6	N/A	5.71
5/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
6/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
7/L1	Lights deck level	B	B	5	1.5	1.0	0.4	3871 MCB	2	6	10	N/A	5.71
8/L1	Lights bottom of stairs	B	B	3	1.5	1.0	0.4	3871 MCB	2	6	10	N/A	5.71
9/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
10/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
11/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
12/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-

WIRING CODE								
A	B	C	D	E	F	G	H	O
PVC/PVC cables	PVC cables in metallic conduit	PVC cables in non-metallic conduit	PVC cables in metallic trunking	PVC cables in non-metallic trunking	PVC/SWA cables	XLPE/SWA cables	Mineral insulated cables	Other

