

ELECTRICAL INSTALLATION CONDITION REPORT

Contractor's Reference Number

CRN/ 151240

Issued in accordance with *British Standard 7671 - Requirements for Electrical Installations* by an Approved Contractor or Conforming Body enrolled with NICEIC, Warwick House, Houghton Hall Park, Houghton Regis, Dunstable LU5 5ZX

A. DETAILS OF THE CLIENT

Client:

Thame Town Hall

Address: High Street
Thame
Oxfordshire

Postcode: OX9 3PD

B. PURPOSE OF THE REPORT

This report must be used only for reporting on the condition of an existing installation.

Purpose for which this report is required: **Health & Safety**

Date(s) on which inspection and testing were carried out: **17/12/2015 -- 17/12/2015**

C. DETAILS OF THE INSTALLATION

Occupier: **Thame Town Council**

Address: **Town Hall,
High St,
Thame,
Oxon**

Postcode: **OX9 3DP**

Estimated age of the electrical installation: **40** years Description of premises: **Commercial** Evidence of alterations or additions: **Commercial** If yes, estimated age: **<1** years

Date of previous inspection: **Unknown** Electrical Installation Certificate No or previous Periodic Inspection or Condition Report No: **No records available**

Records of installation available: **no** Records held by: **Unknown**

D. EXTENT OF THE INSTALLATION AND LIMITATIONS ON THE INSPECTION AND TESTING

Extent of the electrical installation covered by this report:

From the main intake to final point of utilisation:

Emergency lighting/ Fire alarm - no functional testing carried out heater circuits in main hall all high level - limited testing conducted lighting circuits in main hall all high level - limited testing conducted RCD sockets on outside of building all high level - no testing carried out DBY CCTV outgoing circuits not tested as all equip,emt is 110v.

Agreed limitations including the reasons, if any, on the inspection and testing:

Emergency lighting/fire alarm - no functional testing carried out. Heater and Lighting circuits in Main Hall all high level - limited testing conducted. RCD sockets on outside of building all high level - no testing carried out. DB7 CCTV outgoing circuits not tested as all equipment is 110V.

Agreed with:

Operational limitations including the reasons (see page No.)

DB for night storage heaters - no live tests carried out. No functional tests to storage heaters.

The inspection and testing have been carried out in accordance with BS 7671, as amended. Cables concealed within trunking and conduits, or cables and conduits concealed under floors, in inaccessible roof spaces and generally within the fabric of the building or underground, have not been visually inspected unless specifically agreed between the client and inspector prior to the inspection.

E. SUMMARY OF THE CONDITION OF THE INSTALLATION

General condition of the installation (in terms of electrical safety):

Improvements as per observation lists. DB2 requires further consideration as to suitability with main file server and intruder alarm running off the same breaker together with all other office PC's. Top Floor Office has extensive use of extension leads - more sockets should be installed.

Summary of the condition of the installation continued on additional pages? No Yes Specify page No(s):

Overall assessment of the installation: **UNSATISFACTORY*** * An 'Unsatisfactory' assessment indicates that dangerous (CODE C1) and/or potentially dangerous (CODE C2) conditions have been identified, or that Further investigation without delay (FI) is required
(Delete as appropriate)

This report should have been reviewed and confirmed by the registered Qualified Supervisor of the Approved Contractor responsible for issuing it. (See declaration on page 2)

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This report is based on the model forms shown in Appendix 6 of BS 7671
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Please see the 'Notes for Recipients' on the reverse of this page.

NOTES FOR RECIPIENTS

THIS ELECTRICAL INSTALLATION CONDITION REPORT IS AN IMPORTANT AND VALUABLE DOCUMENT WHICH SHOULD BE RETAINED FOR FUTURE REFERENCE

The purpose of periodic inspection is to determine, so far as is reasonably practicable, whether an electrical installation is in a satisfactory condition for continued service (see Section E and G). This report provides an assessment of the condition of the electrical installation identified overleaf at the time it was inspected and tested, taking into account the stated extent of the installation and the limitations of the inspection and testing.

The report identifies any damage, deterioration, defects and/or conditions found by the inspector which may give rise to danger (see Section F), together with any items for which improvement is recommended.

If you were the person ordering this report, but not the user of the installation, you should pass this report, or a full copy of it including these notes, the schedules and additional pages (if any), immediately to the user.

This report should be retained in a safe place and shown to any person inspecting or undertaking further work on the electrical installation in the future. If you later vacate the property, this report will provide the new user with an assessment of the condition of the electrical installation at the time the periodic inspection was carried out.

Where the installation incorporates residual current devices (RCDs), there should be a notice at or near the distribution board stating that they should be tested quarterly. **FOR SAFETY REASONS, IT IS IMPORTANT THAT YOU CARRY OUT THE TEST REGULARLY.**

For safety reasons, the electrical installation should be re-inspected at appropriate intervals by a skilled person or persons, competent in such work. The recommended date by which the next inspection should be carried out is stated in Section I of this report. There should also be a notice at or near the main switchboard or consumer unit indicating when the next inspection of the installation is due. NICEIC* recommends that you engage the services of an Approved Contractor for the inspection.

This report has been issued in accordance with the national standard for the safety of electrical installations, British Standard 7671 (as amended) – *Requirements for Electrical Installations*.

Only an NICEIC Approved Contractor or Conforming Body is authorised to issue this NICEIC Electrical Installation Condition Report form.

You should have received the report marked 'Original' and the Approved Contractor should have retained the report marked 'Duplicate'.

The report consists of at least eight numbered pages. Additional numbered pages may have been provided to permit further relevant information relating to the installation to be recorded. For installations having more than one distribution board or more circuits than can be recorded on Pages 7 and 8, one or more additional *Schedules of Circuit Details and Schedules of Test Results* should form part of the report. The report is invalid if any of the pages identified in Section H are missing. The report has a printed seven-digit serial number, which is traceable to the Approved Contractor to which it was supplied by NICEIC.

This report form is intended to be issued only for the purpose of reporting on the condition of an existing electrical installation. The report should identify, so far as is reasonably practicable and having regard to the extent and limitations recorded in Section D, any damage, deterioration, defects, dangerous conditions and any non-compliances with the requirements of the national standard for the safety of electrical installations which may give rise to danger, together with any items for which improvement is recommended.

The report should not have been issued to certify that new electrical installation work complies with the requirements of the national safety standard. An 'Electrical Installation Certificate', a 'Domestic Electrical Installation Certificate' or a 'Minor Electrical Installation Works Certificate' (as appropriate) should be issued for the certification of new installation work.

This report should not have been issued for an electrical installation in a potentially explosive atmosphere (hazardous area) unless the Approved Contractor holds an appropriate extension to NICEIC enrolment for such work.

* NICEIC is operated by Certsure LLP, a partnership between the Electrical Contractors' Association and the charity, Electrical Safety First. NICEIC maintains and publishes registers of electrical contractors that it has assessed against particular scheme requirements (including the technical standard of electrical work).

For further information about electrical safety and how NICEIC can help you, visit www.niceic.com

continued on the reverse of page 3

GUIDANCE FOR RECIPIENTS ON THE CLASSIFICATION CODES

Only one Classification code should have been given for each recorded observation.

Classification code C1 (*Danger present*)

Where an observation has been given a Classification code C1, the safety of those using the installation is at risk and immediate remedial action is required.

The person responsible for the maintenance of the installation is advised to take action without delay to remedy the observed deficiency in the installation, or to take other appropriate action (such as switching off and isolating the affected part(s) of the installation) to remove the danger. The NICEIC Approved Contractor issuing this report will be able to provide further advice.

NICEIC makes available 'Electrical Danger Notification' forms to enable inspectors to record, and then to communicate to the person ordering the report, any dangerous condition discovered.

Classification code C2 (*Potentially dangerous*)

Classification code C2 indicates that, whilst those using the installation may not be at immediate risk, **urgent remedial action is required to remove potential danger**. The NICEIC Approved Contractor issuing this report will be able to provide further advice.

Classification code C3 (*Improvement recommended*)

Where an observation has been given a Classification code C3, the inspection and/or testing has revealed a non-compliance with the current safety standard which, whilst not presenting immediate or potential danger, would result in a significant safety improvement if remedied. Careful consideration should be given to the safety benefits of improving these aspects of the installation. The NICEIC Approved Contractor issuing this report will be able to provide further advice.

It is important to note that the recommendation given at Section I of this report (Next Inspection) for the maximum interval until the next inspection is conditional upon all items which have been given a Classification code C1 and code C2 being remedied immediately and as a matter of urgency, respectively.

It would not be reasonable for the inspector to indicate that the installation is in a satisfactory condition if any observation in this report has been given a code C1 or code C2 classification.

Code FI (*Further investigation required without delay*)

It should usually be possible for the inspector to attribute a Classification code to each observation without indicating a need for further investigation.

However, where 'FI' has been entered against an observation the inspector considers that further investigation of that observation is likely to reveal danger or potential danger that, due to the agreed extent or limitations of the inspection and/or testing, could not be fully identified at the time.

It would not be appropriate for the inspector to indicate that the installation is in a satisfactory condition if there is reasonable doubt as to whether danger or potential danger exists. Consequently, where the inspector has indicated 'Further investigation required without delay' (FI) the overall assessment of the installation (Section E) should be marked as 'Unsatisfactory'.

If the inspector has indicated that an observation requires further investigation without delay, the person ordering this report is advised to arrange for the NICEIC Approved Contractor issuing the report (or another skilled person or persons competent in such work) to undertake further examination of that aspect of the installation as a matter of urgency, to determine whether or not danger or potential danger exists.

Further information

Further information on the application of Classification codes, primarily aimed at inspectors but of possible interest to persons ordering condition reports, can be found in Electrical Safety First's Best Practice Guide entitled *Electrical installation condition reporting: Classification Codes for domestic and similar electrical installations*. The guide can be viewed or downloaded free of charge from www.electricalsafetyfirst.org.uk

NOTES FOR RECIPIENTS

(continued from the reverse of page 1)

Section D (*Extent and limitations*) should identify fully the extent of the installation covered by this report and any limitations on the inspection and testing. The inspector should have agreed these aspects with the person ordering the report and with other interested parties (licensing authority, insurance company, mortgage provider and the like) before the inspection was carried out. Some operational limitations may have been encountered during the inspection such as inability to gain access to parts of the installation or to an item of equipment. The inspector should have noted any such limitations in Section D. It should be noted that the greater the limitations applying to a report, the less its value from the safety aspect.

A declaration of the overall condition of the installation should have been given by the inspector in Section G of the report. The declaration must reflect the statement given in Section E, which summarises the observations and recommendations made in Section F. Where one or more observations have been made in Section F, the Classification code given to each by the inspector indicates the degree of urgency with which remedial action needs to be taken to restore the installation to a safe working condition.

Where the inspector has indicated an observation as code C1 (*danger present*) the safety of those using the installation is at risk, and it is recommended that a skilled person competent in electrical installation work undertakes the necessary remedial work immediately.

Where the inspector has indicated an observation as code C2 (*potentially dangerous*) the safety of those using the installation may be at risk, and it is recommended that a skilled person competent in electrical installation work undertakes the necessary remedial work as a matter of urgency.

Where the inspector has indicated that an item requires further investigation (FI), the investigation should be carried out without delay to determine whether danger or potential danger exists. For further guidance on the Classification codes, please see the reverse of page 2.

Where the installation can be supplied by more than one source, such as the public supply and a standby generator or microgenerator, the number of sources should have been recorded in Section K *Supply Characteristics and Earthing Arrangements* on page 3 of the report, and the *Schedule of Test Results* compiled accordingly.

Where inadequacies in the electricity distributor's or supplier's equipment have been observed (Section 1 of the inspection schedule), the person ordering the inspection should inform the distributor and/or supplier as appropriate.

Should the person ordering this report have reason to believe that it does not reasonably reflect the condition of the electrical installation reported on, that person should in the first instance raise the specific concerns in writing with the Approved Contractor. If the concerns remain unresolved, the person ordering this report may make a formal complaint to NICEIC, for which purpose a complaint form is available on request.

The complaints procedure offered by NICEIC is subject to certain terms and conditions, full details of which are available upon application. NICEIC does not investigate complaints relating to the operational performance of electrical installations (such as lighting levels), or to contractual or commercial issues (such as time or cost).

ELECTRICAL INSTALLATION CONDITION REPORT

F. OBSERVATIONS AND RECOMMENDATIONS FOR ACTIONS TO BE TAKEN

Referring to the attached schedules of inspection and test results, and subject to the limitations at D:

There are **no** items adversely affecting electrical safety **or** The following observations and recommendations for action are made

Item No	Observations	Code†
1	1.2 Main intake - Service head has blanking glands missing on each side of head.	C2
2	1.3 Main earth bar inadequate due to size of earths terminated to it. Main earth bar not fixed to solid location.	C2
3	1.4 All main tails have become very untidy with little or no clipping evident.	C3
4	3.1.1	C3
5	3.1.4 Supplementary bonding connection to isolator casing inadequate - requires correct crimp.	C2
6	3.1.6 Supplementary bonding connection to isolator casing inadequate - requires correct crimp.	C2
7	3.1.9 No earth flyleads from SWA Banjo's to earth bar.	C3
8	3.1.10 Supplementary bonding connection to isolator casing inadequate - requires correct crimp.	C3
9	5.1 See Observation	C3
10	5.3 Single neutral henley block beneath heating contactor has broken casing.	C2
11	5.4 DB1 = DB casing top and bottom has access panels missing - requires blanking plates. Blanks missing to front cover of DB. DB3 = 3x20mm, 1x25mm holes left unglanded in casing of DB. DB5 = blanks missing to front cover. DB8 = DB casing requires 32mm grommet to base in	C2
12	5.10 Conductors not labelled.	C3
13	5.17 Requires new circuit chart.	C3
14	5.21 No resuscitation charts at main switch gear. No high voltage signs on main electrical cupboard door.	C3
15	6.1 See Observation Table	C3
16	6.6 DB1 = DB has unterminated cables lying in casing. DB4 = DB has a substantial amount of cables only terminated in connector blocks inside DB.	C3
17	6.8 DB has substantial amount of cables only terminated in connector blocks inside DB.	C3
18	6.11 All breakers are type D for heater circuits	C3
19	6.12 Unable to identify CPCs for all circuits due to high level spur points in main hall.	C3

Additional pages? No Yes Specify page No(s): 37

Immediate remedial action required for items:

† One of the following codes, as appropriate, has been allocated to each of the observations made above to indicate to the person(s) responsible for the installation the degree of urgency for remedial action:

Urgent remedial action required for items: 1-2, 5-6, 10-11

Code C1 'Danger present'. Risk of injury. Immediate remedial action required.

Further investigation required without delay for items:

Code C2 'Potentially dangerous'. Urgent remedial action required.

Code C3 'Improvement recommended'.

Improvement recommended for items: 3-4, 7-9, 12-19

Code FI 'Further investigation required without delay'.

Please see the reverse of this page for guidance regarding the Classification codes.

G. 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 on page 1 (see C), having exercised reasonable skill and care when carrying out the inspection and testing, hereby declare that the information in this report, including the observations (see F) and the attached schedules (see H), provides 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 and testing (see D).

I/We further declare that in my/our judgement, the overall assessment of the installation in terms of its suitability for continued use is

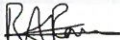
UNSATISFACTORY* (see F) at the time the inspection was carried out, and that it should be further inspected as recommended (see I).


Delete as appropriate

* An 'Unsatisfactory' assessment indicates that dangerous (CODE C1) and/or potentially dangerous (CODE C2) conditions have been identified, or that Further investigation without delay (FI) is required.

INSPECTION, TESTING AND ASSESSMENT BY:

REPORT REVIEWED AND CONFIRMED BY:

Signature: 

Signature: 

Name: (CAPITALS) ALAN OLDHAM

Name: (CAPITALS) ROBERT PARSONS

Position: TEST ENGINEER

(Registered Qualified Supervisor for the Approved Contractor at J)

Date: 17/12/2015

Date: 21/01/2016

ELECTRICAL INSTALLATION CONDITION REPORT

Original (To the person ordering the work)

H. SCHEDULES AND ADDITIONAL PAGES

Inspection Schedule: Page(s) No 4, 5, 6 Additional pages, including additional source(s) data sheets: Page No(s)

Schedule of Circuit Details for the Installation: Page No(s) 7-13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35 Schedule of Test Results for the Installation: Page No(s) 8-14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36

The pages identified are an essential part of this report. The report is valid only if accompanied by all the schedules and additional pages identified above.

I. NEXT INSPECTION

I/We recommend that this installation is further inspected and tested after an interval of not more than **5 Years** (Enter interval in terms of years, months or weeks, as appropriate)

provided that any items at F which have been attributed a Classification code C1 (danger present) are remedied immediately and that any items which have been attributed a code C2 (potentially dangerous) or FI (further investigation required without delay) are remedied or investigated respectively as a matter of urgency. Items which have been attributed a Classification code C3 should be improved as soon as practicable (see F).

J. DETAILS OF NICEIC APPROVED CONTRACTOR

Trading title: **Low & Oliver Ltd**

Address: **Cumnor Road
Wootton
Boars Hill** Telephone number: **01865 322200**

Email address: **info@loweoliver.co.uk**

Enrolment number: **0 0 1 5 6 6** (Essential information)

Branch number: **0 0 0** (if applicable)

Postcode: **OX1 5JW**

K. SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

System type(s)	Number and type of live conductors			Nature of supply parameters			Characteristics of primary supply overcurrent protective device(s)	
TN-S	N/A	a.c.	✓	d.c.	Nominal voltage(s):	230 V	$U_0^{(1)}$ 400 V	BS(EN) 1361
TN-CS	✓	1-phase (2-wire) N/A	1-phase (3-wire) N/A	2-pole	Nominal frequency, $f^{(1)}$	50 Hz	Notes: (1) by enquiry Type 2	
TN-C	N/A	2-phase (3-wire) N/A		3-pole	Prospective fault current, $I_{pf}^{(2/3)}$	2.4 kA	(2) by enquiry or by measurement Rated current 100 A	
TT	N/A	3-phase (3-wire) N/A	3-phase (4-wire) ✓	other	External earth fault loop impedance, $Z_e^{(3/4)}$	0.08 Ω	(3) where more than one supply, record the higher or highest values Short-circuit capacity 16.5 kA	
IT	N/A	Other	Please state		Number of sources	1	(4) by measurement Confirmation of supply polarity ✓ (✓)	

L. PARTICULARS OF INSTALLATION AT THE ORIGIN

Means of earthing			Details of installation earth electrode (where applicable)		
Distributor's facility:	✓	Type: (eg rod(s), tape(s) etc) N/A	Location:		N/A
Installation earth electrode:	N/A	Electrode resistance, R_A : N/A	(Ω)	Method of measurement:	N/A
Main Switch/Switch-Fuse/Circuit-Breaker/ RCD			Earthing and protective bonding conductors		
Type: BS(EN)	BS88-2	Voltage rating 660 V	Earthing conductor		Main protective bonding conductors
No of poles	3	Rated current, I_n 100 A	Conductor material copper	Conductor material copper	Bonding of extraneous-conductive-parts (✓)
Primary supply conductors: material	copper	RCD operating current, $I_{\Delta n}^*$ N/A mA	Conductor csa 25 mm ²	Conductor csa 10 mm ²	Water installation pipes ✓ Lightning protection N/A
Primary supply conductors: csa	35 mm ²	Rated time delay* N/A ms	Connection/continuity verified ✓ (✓)	Connection/continuity verified ✓ (✓)	Oil installation pipes N/A Structural steel N/A
		RCD operating time (at $I_{\Delta n}$)* N/A ms			Gas installation pipes ✓
					Other

* (applicable only where an RCD is suitable and is used as a main circuit-breaker)

ELECTRICAL INSTALLATION CONDITION REPORT

Original (To the person ordering the work)

INSPECTION SCHEDULE FOR DISTRIBUTION BOARDS AND CIRCUITS

Item	Description	Outcome*	Location reference
1.0	Condition/adequacy of distributor's/supply intake equipment[†]		
1.1	Service cable	✓	
1.2	Service head	C2	Service head
1.3	Distributor's earthing arrangement(s)	C2	Main Intake
1.4	Meter tails – Distributor/ Consumer	C3	Main Intake
1.5	Metering equipment	✓	
1.6	Means of main isolation (<i>where present</i>)	✓	
2.0	Presence of adequate arrangements for parallel or switched alternative sources		
2.1	Adequate arrangements where a generating set operates as a switched alternative to the public supply	N/A	
2.2	Adequate arrangements where a generating set operates in parallel with the public supply	N/A	
3.0	Automatic disconnection of supply		
3.1	Main earthing and bonding arrangements		
	• Presence and condition of distributor's earthing arrangement	C3	Main Intake
	• Presence and condition of earth electrode arrangement	N/A	
	• Adequacy of earthing conductor size	✓	
	• Adequacy of earthing conductor connections	C2	Kitchen - DB3
	• Accessibility of earthing conductor connections	✓	
	• Adequacy of main protective bonding conductor size(s)	C2	Kitchen - DB3
	• Adequacy of main protective bonding conductor connections	✓	
	• Accessibility of main protective bonding connections	✓	
	• Accessibility and condition of other protective bonding connections	C3	DB1
	• Provision of earthing/bonding labels at all appropriate locations	C3	Main Water/ Gas Bonds
3.2	FELV		
	• Source providing at least simple separation	N/A	
	• Plugs, socket-outlets and the like not interchangeable with those of other systems within the premises	N/A	
3.3	Reduced low voltage		
	• Adequacy of source	N/A	
	• Plugs, socket-outlets and the like not interchangeable with those of other systems within the premises	N/A	
4.0	Other methods of protection (<i>where the methods of protection listed below are employed, details should be provided on separate sheets</i>)		
4.1	Double insulation	✓	
4.2	Reinforced insulation	✓	
4.3	Use of obstacles	N/A	
4.4	Placing out of reach	N/A	
4.5	Non-conducting location	N/A	
4.6	Earth-free local equipotential bonding	N/A	
4.7	Electrical separation for more than one item of equipment	N/A	
5.0	Distribution equipment		
5.1	Adequacy of working space/accessibility of equipment	C3	DB1, DB3, DB5, DB9
5.2	Security of fixing	✓	
5.3	Condition of insulation of live parts	C2	Main Intake
5.4	Adequacy/security of barriers	C2	DB1, DB3, DB5, DB8
5.5	Condition of enclosure(s) in terms of IP rating	✓	
5.6	Condition of enclosure(s) in terms of fire rating	✓	
5.7	Enclosure not damaged/deteriorated so as to impair safety	✓	
5.8	Presence of main switch(es), linked where required	✓	
5.9	Operation of main switch(es) (<i>functional check</i>)	✓	
5.10	Correct identification of circuit protective devices	C3	DB3
5.11	Adequacy of protective devices for prospective fault current	✓	
5.12	RCD(s) provided for fault protection – includes RCBOs	✓	
5.13	RCD(s) provided for additional protection – includes RCBOs	✓	

* All Outcome boxes must be completed.

✓ indicates Acceptable condition

LIM indicates a Limitation

N/A indicates Not applicable

Unacceptable condition state C1 or C2

Improvement recommended state C3

Further investigation required without delay state FI

(to determine whether danger or potential danger exists)

Outcome

Provide additional comment where appropriate on attached numbered sheets. C1, C2, C3 and FI coded items to be recorded in Section F of the report.

[†] Where inadequacies in distributor's equipment are encountered, it is recommended that the person ordering the report informs the appropriate authority.

ELECTRICAL INSTALLATION CONDITION REPORT

INSPECTION SCHEDULE FOR DISTRIBUTION BOARDS AND CIRCUITS

Item	Description	Outcome*	Location reference
5.14	RCD(s) provided for protection against fire – includes RCBOs	✓	
5.15	Manual operation of circuit-breakers and RCDs to prove disconnection	✓	
5.16	Presence of RCD retest notice at or near equipment where required	✓	
5.17	Presence of diagrams, charts or schedules at or near equipment, where required	C3	DB4, DB5, DB1
5.18	Presence of non-standard (mixed) cable colour warning notice at or near equipment where required	✓	
5.19	Presence of alternative/additional supply arrangement warning notice(s) at or near equipment where required	N/A	
5.20	Presence of replacement next inspection recommendation label	✓	
5.21	Presence of other required labelling (<i>specify</i>)	C3	Main Intake
5.22	Examination of protective device(s) and base(s); correct type and rating (<i>no signs of unacceptable thermal damage, arcing or overheating</i>)	✓	
5.23	Single-pole switching or protective devices in line conductors only	✓	
5.24	Protection against mechanical damage where cables enter equipment	✓	
5.25	Protection against electromagnetic effects where cables enter metallic enclosures	✓	
6.0 Distribution/final circuits			
6.1	Identification of conductors	C3	DB1, DB2, DB3, DB4, DB5, DB6
6.2	Cables correctly supported throughout their length	✓	
6.3	Condition of insulation of live parts	✓	
6.4	Non-sheathed cables protected by enclosure in conduit, ducting or trunking	✓	
6.5	Suitability of containment systems for continued use (<i>including flexible conduit</i>)	✓	
6.6	Cables correctly terminated in enclosures (<i>indicate extent of sampling in Section D of report</i>)	C3	DB1 & DB4
6.7	Confirmation of indication that SPD(s) are functional	N/A	
6.8	Confirmation that ALL conductor connections, including connections to busbars are correctly located in terminals and are tight and secure	C3	DB4
6.9	Examination of cables for signs of unacceptable thermal and mechanical damage/deterioration	✓	
6.10	Adequacy of cables for current-carrying capacity with regard to the type and nature of installation	✓	
6.11	Adequacy of protective devices; type and rated current for fault protection	C3	DB4
6.12	Presence and adequacy of circuit protective conductors	C3	DB4
6.13	Co-ordination between conductors and overload protective devices	C3	DB2
6.14	Cable installation methods/practices appropriate to the type and nature of installation and external influences	C2	Main Intake, DB1, DB3, DB4, DB5, DB6
6.15	Cables where exposed to direct sunlight, of a suitable type	✓	
6.16	Cables installed under floors, above ceilings, in walls / partitions, adequately protected against damage		
	• installed in prescribed zones (see Section D. Extent and limitations)	✓	
	• incorporating earthed armour or sheath, or installed within earthed wiring system, or otherwise protected against mechanical damage by nails, screws and the like (see Section D. Extent and limitations)	✓	
6.17	Provision of additional protection by 30 mA RCD		
	• †for mobile equipment not exceeding a rating of 32 A for use outdoors	✓	
	• †for all socket-outlets of rating 20 A or less, unless exempt	✓	
	• †for cables installed in walls / partitions at a depth of less than 50 mm	✓	
	• †for cables installed in walls / partitions containing metal parts regardless of depth	✓	
6.18	Provision of fire barriers, sealing arrangements and protection against thermal effects	✓	
6.19	Band II cables segregated/separated from Band I cables	✓	
6.20	Cables segregated/separated from non-electrical services	✓	
6.21	Termination of cables at enclosures (<i>identify numbers and locations of items inspected in Section D</i>)		
	• Connections under no undue strain	✓	
	• No basic insulation of a conductor visible outside an enclosure	✓	
	• Connections of live conductors adequately enclosed	✓	
	• Adequacy of connection at point of entry to enclosure (<i>gland, bush or similar</i>)	C3	DB5
6.22	General condition of wiring systems	✓	
6.23	Temperature rating of cable insulation	✓	
6.24	Condition of accessories including socket-outlets, switches and joint boxes	C2	DB3
6.25	Suitability of accessories for external influences	✓	
6.26	Single-pole switching or protective devices in line conductors only	✓	
6.27	Adequacy of connections, including cps, within accessories and to fixed and stationary equipment – identify /record numbers and locations of items inspected	C3	DB6

† Note: Older installations designed prior to BS 7671:2008 may not have been provided with RCDs for additional protection

* All Outcome boxes must be completed.

✓ indicates Acceptable condition
 LIM indicates a Limitation
 N/A indicates Not applicable

Unacceptable condition state C1 or C2

Improvement recommended state C3

Further investigation required without delay state F1
 (to determine whether danger or potential danger exists)

Outcome

Provide additional comment where appropriate on attached numbered sheets. C1, C2, C3 and F1 coded items to be recorded in Section F of the report.

Page 5 of

37

ELECTRICAL INSTALLATION CONDITION REPORT

Original (To the person ordering the work)

INSPECTION SCHEDULE FOR DISTRIBUTION BOARDS AND CIRCUITS

Item	Description	Outcome*	Location reference
7.0	Isolation and switching		
7.1	Isolators		
	• presence and condition of appropriate devices	✓	
	• acceptable location (state if local or remote)	✓	
	• capable of being secured in the OFF position	✓	
	• correct operation verified	✓	
	• clearly identified by position and/or durable marking(s)	✓	
	• Warning label posted in situations where live parts cannot be isolated by the operation of a single device	✓	
7.2	Switching off for mechanical maintenance		
	• presence and condition of appropriate devices	✓	
	• acceptable location	✓	
	• capable of being secured in the OFF position	✓	
	• correct operation verified	✓	
	• clearly identified by position and/or durable marking(s)	✓	
7.3	Emergency switching/stopping		
	• presence and condition of appropriate devices	✓	
	• readily accessible for operation where danger might occur	✓	
	• correct operation verified	✓	
	• clearly identified by position and/or durable marking(s)	✓	
7.4	Functional switching		
	• presence and condition of appropriate devices	✓	
	• correct operation verified	✓	
8.0	Current-using equipment (<i>permanently connected</i>)		
8.1	Condition of equipment in terms of IP rating	✓	
8.2	Equipment does not constitute a fire hazard	✓	
8.3	Enclosure not damaged/deteriorated so as to impair safety	✓	
8.4	Suitability for the environment and external influences	✓	
8.5	Security of fixing	✓	
8.6	Cable entry holes in ceiling above luminaires, sized or sealed so as to restrict the spread of fire (<i>indicate extent of sampling in Section D of report</i>)	✓	
8.7	Recessed luminaires (e.g. downlighters)		
	• correct type of lamps fitted	✓	
	• installed to minimise build-up of heat by use of "fire rated" fittings, insulation displacement box or similar	✓	
	• no signs of overheating to surrounding building fabric	✓	
	• no signs of overheating to conductors/terminations	✓	
9.0	Location(s) containing a bath or shower		
9.1	Additional protection by RCD not exceeding 30 mA		
	• for low voltage circuits serving the location	N/A	
	• for low voltage circuits passing through Zone 1 and Zone 2 not serving the location	N/A	
9.2	Where used as a protective measure, requirements for SELV or PELV are met	N/A	
9.3	Shaver sockets comply with BS EN 61558-2-5 or BS 3535	N/A	
9.4	Presence of supplementary bonding conductors unless not required by BS 7671: 2008	N/A	
9.5	Low voltage (e.g. 230 volts) socket-outlets sited at least 3 m from zone 1	N/A	
9.6	Suitability of equipment for external influences for installed location in terms of IP rating	N/A	
9.7	Suitability of equipment for installation in a particular zone	N/A	
9.8	Suitability of current-using equipment for a particular position within the location	N/A	
10.0	Other special installations or locations		
	List special locations present, if any. List the results of particular inspections applied (a separate page is required for each location).		Basement Area
		C3	

* All Outcome boxes must be completed.

- ✓ indicates Acceptable condition
- 'LIM' indicates a Limitation
- 'N/A' indicates Not applicable

Unacceptable condition state C1 or C2

- Improvement recommended state C3
- Further investigation required without delay state FI (to determine whether danger or potential danger exists)

Outcome

Provide additional comment where appropriate on attached numbered sheets. C1, C2, C3 and FI coded items to be recorded in Section F of the report.

SCHEDULE OF CIRCUIT DETAILS FOR THE PRIMARY DISTRIBUTION BOARD

TO BE COMPLETED IN EVERY CASE	TO BE COMPLETED ONLY IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION*	
Location of distribution board: Basement Electrical Cupboard	Supply to distribution board is from: Origin of Supply []	No of phases: 3 Nominal voltage: 230 V
Distribution board designation: Busbar Chamber	Overcurrent protective device for the distribution circuit: Type: BS (EN)	Associated RCD (if any): BS (EN) Not Applicable Rating: A RCD No of poles: N/A $I_{\Delta n}$ N/A mA

CIRCUIT DETAILS

Circuit number and line	Circuit designation	Type of wiring (see code below)	Reference method ↑	Number of points served	Circuit conductors: csa		Max. disconnection time permitted by BS 7671 (s)	Overcurrent protective devices			RCD		
					Live	cpc		BS (EN)	Type	Rating (A)	Short-circuit capacity (kA)	Operating current, $I_{\Delta n}$ (mA)	Maximum Z_s permitted by BS 7671 (Ω)
					(mm ²)	(mm ²)							
1TP	DB1											N/A	
2TP	DB4 & DB5 Isolator												
3TP	DB8 FIRE ALARM											N/A	
4L1	DB9											N/A	
4L2	SPARE												
4L3	SPARE												
5L1	DB10											N/A	
5L2	SPARE												
5L3	SPARE												

* In such cases, details of the distribution (sub-main) circuit(s), together with the test results for the circuit(s), must also be provided on continuation schedules.

↑ See Table 4A2 of Appendix 4 of BS 7671

CODES FOR TYPE OF WIRING								
A	B	C	D	E	F	G	H	0 (Other - please state)
Thermoplastic insulated/sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in non-metallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in non-metallic trunking	Thermoplastic /SWA cables	Thermosetting/ SWA cables	Mineral-insulated cables	

Original (To the person ordering the work)

SCHEDULE OF TEST RESULTS FOR THE PRIMARY DISTRIBUTION BOARD

<p>TO BE COMPLETED ONLY IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION</p> <p>Characteristics at this distribution board</p> <p>✓ Confirmation of supply polarity</p> <p>☆ See note below</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Z_s^*</td> <td style="width: 15%;">Ω</td> <td style="width: 20%;">Operating times of associated RCD (if any)</td> <td style="width: 15%;">At $I_{\Delta n}$</td> <td style="width: 15%;">N/A</td> <td style="width: 20%;">ms</td> </tr> <tr> <td>I_{pf}^*</td> <td>kA</td> <td></td> <td>At $5I_{\Delta n}$ (if applicable)</td> <td>N/A</td> <td>ms</td> </tr> </table> <p>Phase sequence confirmed (where appropriate) N/A (✓)</p>	Z_s^*	Ω	Operating times of associated RCD (if any)	At $I_{\Delta n}$	N/A	ms	I_{pf}^*	kA		At $5I_{\Delta n}$ (if applicable)	N/A	ms	<p style="text-align: center;">Test instruments (serial numbers) used:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Earth fault loop impedance</td> <td style="width: 40%;">RCD</td> </tr> <tr> <td>Insulation resistance</td> <td>Multi function 4562</td> </tr> <tr> <td>Continuity</td> <td>Other</td> </tr> </table>	Earth fault loop impedance	RCD	Insulation resistance	Multi function 4562	Continuity	Other
Z_s^*	Ω	Operating times of associated RCD (if any)	At $I_{\Delta n}$	N/A	ms														
I_{pf}^*	kA		At $5I_{\Delta n}$ (if applicable)	N/A	ms														
Earth fault loop impedance	RCD																		
Insulation resistance	Multi function 4562																		
Continuity	Other																		

TEST RESULTS														
Circuit number and line	Circuit impedances (Ω)					Insulation resistance <i>Record lower or lowest value</i>				Polarity (✓)	Maximum measured earth fault loop impedance, Z_s^* (Ω)	RCD		
	Ring final circuits only (measured end to end)			All circuits (At least one column to be completed)		Line/Line	Line/Neutral	Line/Earth	Neutral/Earth			Operating times		Test button operation (✓)
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	R_2	(MΩ)	(MΩ)	(MΩ)	(MΩ)			at $I_{\Delta n}$ (ms)	at $5I_{\Delta n}$ (if applicable) (ms)	
1TP										✓	0.13	N/A	N/A	N/A
2TP										✓	0.11	N/A	N/A	N/A
3TP										✓	0.11	N/A	N/A	N/A
4L1										✓	LIM	N/A	N/A	N/A
4L2														
4L3														
5L1										✓	0.13	N/A	N/A	N/A
5L2														
5L3														

* Note: Where the installation can be supplied by more than one source, such as a primary source (e.g. public supply) and a secondary source (e.g. standby generator), the higher or highest values must be recorded.

TESTED BY

Signature:

Position: Test Engineer

Page 8 of

37

Name: A.OLDHAM
(CAPITALS)

Date of testing: 17/12/2015

See previous page for
Schedule of Circuit Details

SCHEDULE OF CIRCUIT DETAILS FOR THE INSTALLATION - CONTINUATION

Contractor's Reference Number

CRN/ 151240

TO BE COMPLETED IN EVERY CASE	TO BE COMPLETED ONLY IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION*		
Location of distribution board: Basement Electrical Cupboard	Supply to distribution board is from: Busbar Chamber [1TP]	No of phases: 3	Nominal voltage: 400 V
Distribution board designation: DB1	Overcurrent protective device for the distribution circuit: Type: BS(EN)	Associated RCD (if any): BS(EN)	Rating: A
		RCD No of poles: N/A	$I_{\Delta n}$: N/A mA

CIRCUIT DETAILS													
Circuit number and line	Circuit designation	Type of wiring (see code below)	Reference method	Number of points served	Circuit conductors: csa			Overcurrent protective devices				RCD	
					Live (mm ²)	cpc (mm ²)	Max. disconnection time permitted by BS 7671 (s)	BS (EN)			Operating current, $I_{\Delta n}$ (mA)	Maximum Z_{s} permitted by BS 7671 (Ω)	
								Type	Rating (A)	Short-circuit capacity (kA)			
1L1	SPARE	A											
1L2	XMAS Tree Socket Outside	G	B	1	2.5	SWA	0.4	4293	N/A	15	N/A	30	
1L3	Hand Dryer - Disabled Toilet	A	B	1	2.5	1.5	0.4	4293	N/A	20	N/A	30	
2L1	Boiler Above Disabled Toilet in Ceiling	A	B	1	2.5	1.5	0.4	4293	N/A	20	N/A	30	
2L2	Lift Lights and Socket	A	B	2	2.5	1.5	0.4	60898	C	20	10	N/A	
2L3	Sockets: Reception area, Top Counter, Undercounter	A	B	9	2.5	2.5	0.4	4293	N/A	30	N/A	30	
3L1	DB6	A	B	1	10	6	0.4	60898	C	32	10	N/A	
3L2	DB3 ISOLATOR	A	C	1	16	6	5	60898	C	63	10	N/A	
3L3	DB2	G	B	1	25	SWA	5	60898	C	63	10	N/A	
4L1	SPARE												
4L2	SPARE												
4L3	Main entrance: Sockets + Spur	A	B	3	4	2.5	1.5	4293	N/A	30	N/A	30	
5L1	Lights meeting room, lift and electrical cupboard	A	B	13	1.5	1.5	0.4	60898	B	6	10	N/A	
5L2	Lights: Reception Rear	A	B	9	1.5	1.5	0.4	60898	C	6	10	N/A	
5L3	Lights: Reception Front	A	B	11	1.5	1.5	0.4	60898	C	6	10	N/A	
6TP	Supply Lift To Isolator	G	B	1	10	SWA	5	60898	C	40	10	N/A	

↑ See Table 4A2 of Appendix 4 of BS 7671

CODES FOR TYPE OF WIRING								
A	B	C	D	E	F	G	H	O (Other - please state)
Thermoplastic insulated/sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in non-metallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in non-metallic trunking	Thermoplastic /SWA cables	Thermosetting/SWA cables	Mineral-insulated cables	

* In such cases, details of the distribution (sub-main) circuit(s), together with the test results for the circuit(s), must also be provided on continuation schedules.

SCHEDULE OF TEST RESULTS FOR THE INSTALLATION - CONTINUATION

Contractor's Reference Number

CRN/ 151240

<p style="text-align: center; font-weight: bold; font-size: small;">TO BE COMPLETED ONLY IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION</p> <p style="text-align: center; font-weight: bold; font-size: x-small;">Characteristics at this distribution board</p> <p style="text-align: center;">✓ Confirmation of supply polarity</p> <p style="font-size: x-small;">* See note below</p> <p>Z_s * 0.13 Ω Operating times At $I_{\Delta n}$ N/A ms</p> <p>I_{pf} * 2.0 kA RCD (if any) At $5I_{\Delta n}$ (if applicable) N/A ms</p> <p style="text-align: center;">Phase sequence confirmed (where appropriate) N/A (✓)</p>	<p style="text-align: center; font-weight: bold;">Test instruments (serial numbers) used:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Earth fault loop impedance</td> <td style="width: 50%;">RCD</td> </tr> <tr> <td>Insulation resistance</td> <td>Multi-function 4562</td> </tr> <tr> <td>Continuity</td> <td>Other</td> </tr> </table>	Earth fault loop impedance	RCD	Insulation resistance	Multi-function 4562	Continuity	Other
Earth fault loop impedance	RCD						
Insulation resistance	Multi-function 4562						
Continuity	Other						

TEST RESULTS

Circuit number and line	Circuit impedances (Ω)					Insulation resistance † Record lower or lowest value				Polarity (✓)	Maximum measured earth fault loop impedance, Z_s^* (Ω)	RCD		
	Ring final circuits only (measured end to end)			All circuits (At least one column to be completed)		Line/Line †	Line/Neutral †	Line/Earth †	Neutral/Earth			operating times		Test button operation (✓)
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	R_2	(M Ω)	(M Ω)	(M Ω)	(M Ω)			at $I_{\Delta n}$ (ms)	at $5I_{\Delta n}$ (if applicable) (ms)	
1L1														
1L2	N/A	N/A	N/A	0.10	N/A	N/A	299	299	299	✓	0.40	19.6	19.3	✓
1L3	N/A	N/A	N/A	0.20	N/A	N/A	299	299	299	✓	0.38	7.5	15.9	✓
2L1	N/A	N/A	N/A	N/T	N/A	N/A	N/T	299	299	--	N/T	17.5	17.4	✓
2L2	N/A	N/A	N/A	0.20	N/A	N/A	N/T	299	N/T	✓	0.38	N/A	N/A	N/A
2L3	0.60	0.60	0.20	0.39	N/A	N/A	299	299	299	✓	0.39	8.5	N/A	✓
3L1	N/A	N/A	N/A	0.15	N/A	N/A	N/T	299	N/T	✓	0.38	N/A	N/A	N/A
3L2	N/A	N/A	N/A	N/A	0.02	N/A	N/T	299	N/T	✓	0.13	N/A	N/A	N/A
3L3	N/A	N/A	N/A	0.21	N/A	N/A	N/T	299	N/T	✓	0.15	N/A	N/A	N/A
4L1														
4L2														
4L3	N/A	N/A	N/A	0.20	N/A	N/A	299	299	299	✓	0.27	18.3	18.2	✓
5L1	N/A	N/A	N/A	0.20	N/A	N/A	N/T	299	299	✓	0.45	N/A	N/A	N/A
5L2	N/A	N/A	N/A	0.39	N/A	N/A	N/T	299	299	✓	0.47	N/A	N/A	N/A
5L3	N/A	N/A	N/A	0.40	N/A	N/A	N/T	299	299	✓	0.43	N/A	N/A	N/A
6TP	N/A	N/A	N/A	0.10	N/A	N/A	299	299	299	✓	0.20	N/A	N/A	N/A

* Note: Where the installation can be supplied by more than one source, such as a primary source (e.g. public supply) and a secondary source (e.g. standby generator), the higher or highest values must be recorded.

TESTED BY
Signature:

Position: TEST ENGINEER

Page 10 of 37

Name: ALAN OLDHAM
(CAPITALS)

Date of testing: 17/12/2015

See previous page for Circuit Details

Original (To the person ordering the work)

SCHEDULE OF CIRCUIT DETAILS FOR THE INSTALLATION - CONTINUATION

Contractor's Reference Number

CRN/ 151240

TO BE COMPLETED IN EVERY CASE	TO BE COMPLETED ONLY IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION*				
Location of distribution board: Top of Stairs to Rear Basement	Supply to distribution board is from: DB1 [3L1]	No of phases: 1	Nominal voltage: 230	V	
Distribution board designation: DB6	Overcurrent protective device for the distribution circuit: Type: 60898 BS(EN)	Associated RCD (if any): BS(EN)	Rating: 32	A	RCD No of poles: N/A
				$I_{\Delta n}$	N/A mA

CIRCUIT DETAILS													
Circuit number and line	Circuit designation	Type of wiring (see code below)	Reference method	Number of points served	Circuit conductors: csa			Overcurrent protective devices				RCD	
					Live (mm ²)	cpc (mm ²)	Max. disconnection time permitted by BS 7671 (s)	BS (EN)			Operating current, $I_{\Delta n}$ (mA)	Maximum Z_e permitted by BS 7671 (Ω)	
								Type	Rating (A)	Short-circuit capacity (kA)			
1	DB7	G	B	2	2.5	SWA	0.4	60898	B	20	6	N/A	1.92
2	Gents H/Dryer (Unfound)	A	B	N/T	2.5	1.5	0.4	60898	B	16	6	N/A	2.40
3	Telephone Exchange	A	B	1	2.5	1.5	0.4	60898	B	16	6	N/A	2.40
4	Basement Heater	A	B	1	2.5	1.5	0.4	60898	B	16	6	N/A	2.40
5	Lighting Main Hall Stairwell	A	B	1	1.5	1.0	0.4	60898	B	6	6	N/A	6.40
6	Lighting Basement	A	B	3	1.5	1.0	0.4	60898	B	6	6	N/A	6.40
7	SPARE							3871	2	10	6	N/A	
8	SPARE							60898	B	10	10	N/A	

* See Table 4A2 of Appendix 4 of BS 7671

CODES FOR TYPE OF WIRING								
A	B	C	D	E	F	G	H	0 (Other - please state)
Thermoplastic insulated/sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in non-metallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in non-metallic trunking	Thermoplastic /SWA cables	Thermosetting /SWA cables	Mineral-insulated cables	

* In such cases, details of the distribution (sub-main) circuit(s), together with the test results for the circuit(s), must also be provided on continuation schedules.

SCHEDULE OF TEST RESULTS FOR THE INSTALLATION - CONTINUATION

Contractor's Reference Number


CRN/ 151240

<p>TO BE COMPLETED ONLY IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION</p> <p>Characteristics at this distribution board</p> <p style="text-align: center;">✓ Confirmation of supply polarity</p> <p><small>* See note below</small></p> <p>Z_s^* 0.38 Ω Operating times At $I_{\Delta n}$ N/A ms</p> <p>I_{pf}^* 0.64 kA RCD (if any) At $5I_{\Delta n}$ (if applicable) N/A ms</p> <p>Phase sequence confirmed (where appropriate) N/A (✓)</p>	<p style="text-align: center;">Test instruments (serial numbers) used:</p> <table style="width: 100%; border: none;"> <tr> <td style="border: none;">Earth fault loop impedance</td> <td style="border: none;">RCD</td> </tr> <tr> <td style="border: none;">Insulation resistance</td> <td style="border: none;">Multi-function 4562</td> </tr> <tr> <td style="border: none;">Continuity</td> <td style="border: none;">Other</td> </tr> </table>	Earth fault loop impedance	RCD	Insulation resistance	Multi-function 4562	Continuity	Other
Earth fault loop impedance	RCD						
Insulation resistance	Multi-function 4562						
Continuity	Other						

Original (To the person ordering the work)

TEST RESULTS														
Circuit number and line	Circuit impedances (Ω)					Insulation resistance † Record lower or lowest value				Polarity (✓)	Maximum measured earth fault loop impedance, Z_s^* (Ω)	RCD		
	Ring final circuits only (measured end to end)			All circuits (At least one column to be completed)		Line/Line †	Line/Neutral †	Line/Earth †	Neutral/Earth			operating times		Test button operation (✓)
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	R_2	(M Ω)	(M Ω)	(M Ω)	(M Ω)			at $I_{\Delta n}$ (ms)	at $5I_{\Delta n}$ (if applicable) (ms)	
1	N/A	N/A	N/A	0.15	N/A	N/A	299	299	299	✓	0.44	N/A	N/A	N/A
2	N/A	N/A	N/A	N/T	N/A	N/A	N/T	299	N/T	--	N/T	N/A	N/A	N/A
3	N/A	N/A	N/A	0.08	N/A	N/A	299	299	299	✓	0.37	N/A	N/A	N/A
4	N/A	N/A	N/A	0.21	N/A	N/A	299	299	299	✓	0.51	N/A	N/A	N/A
5	N/A	N/A	N/A	0.57	N/A	N/A	N/T	299	299	✓	0.94	N/A	N/A	N/A
6	N/A	N/A	N/A	0.44	N/A	N/A	299	299	299	✓	0.58	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

* Note: Where the installation can be supplied by more than one source, such as a primary source (e.g. public supply) and a secondary source (e.g. standby generator), the higher or highest values must be recorded.

TESTED BY
Signature: 

Position: TEST ENGINEER

Name: ALAN OLDHAM
(CAPITALS)

Date of testing: 17/12/2015

See previous page for Circuit Details

SCHEDULE OF TEST RESULTS FOR THE INSTALLATION - CONTINUATION

Contractor's Reference Number

CRN/ 151240

<p>TO BE COMPLETED ONLY IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION</p> <p style="text-align: center;">Characteristics at this distribution board</p> <p style="text-align: center;">✓ Confirmation of supply polarity</p> <p><small>* See note below</small></p> <p>Z_s * 0.44 Ω Operating times At $I_{\Delta n}$ N/A ms</p> <p>I_{pf} * LIM kA RCD (if any) At $5I_{\Delta n}$ (if applicable) N/A ms</p> <p style="text-align: right;">Phase sequence confirmed (where appropriate) N/A (✓)</p>	<p style="text-align: center;">Test instruments (serial numbers) used:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Earth fault loop impedance</td> <td>RCD</td> </tr> <tr> <td>Insulation resistance</td> <td>Multi-function 4562</td> </tr> <tr> <td>Continuity</td> <td>Other</td> </tr> </table>	Earth fault loop impedance	RCD	Insulation resistance	Multi-function 4562	Continuity	Other
Earth fault loop impedance	RCD						
Insulation resistance	Multi-function 4562						
Continuity	Other						

TEST RESULTS															
Circuit number and line	Circuit impedances (Ω)					Insulation resistance <small>† Record lower or lowest value</small>				Polarity (✓)	Maximum measured earth fault loop impedance, Z_s^* (Ω)	RCD			
	Ring final circuits only (measured end to end)			All circuits (At least one column to be completed)		Line/Line †	Line/Neutral †	Line/Earth †	Neutral/Earth			operating times		Test button operation (✓)	
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	R_2	(M Ω)	(M Ω)	(M Ω)	(M Ω)			at $I_{\Delta n}$ (ms)	at $5I_{\Delta n}$ (if applicable) (ms)		
1	N/A	N/A	N/A	LIM	N/A	N/A	LIM	LIM	LIM	LIM	LIM	N/A	N/A	N/A	
2	N/A	N/A	N/A	LIM	N/A	N/A	LIM	LIM	LIM	LIM	LIM	N/A	N/A	N/A	
3	N/A	N/A	N/A	LIM	N/A	N/A	LIM	LIM	LIM	LIM	LIM	N/A	N/A	N/A	
4	N/A	N/A	N/A	LIM	N/A	N/A	LIM	LIM	LIM	LIM	LIM	N/A	N/A	N/A	
5	N/A	N/A	N/A	N/A	N/A	N/A	LIM	LIM	LIM	LIM	LIM	N/A	N/A	N/A	
6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

* Note: Where the installation can be supplied by more than one source, such as a primary source (e.g. public supply) and a secondary source (e.g. standby generator), the higher or highest values must be recorded.

TESTED BY
Signature:

Position: Test Engineer

Name: ALAN OLDHAM
(CAPITALS)

Date of testing: 17/12/2015

See previous page
for Circuit Details

Original (To the person ordering the work)

**SCHEDULE OF CIRCUIT DETAILS
FOR THE INSTALLATION - CONTINUATION**

Contractor's Reference Number

CRN/ 151240

TO BE COMPLETED IN EVERY CASE	TO BE COMPLETED ONLY IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION*				
Location of distribution board: Basement Electrical Cupboard	Supply to distribution board is from: DB1 [3L2]	No of phases: 1	Nominal voltage: 230 V		
Distribution board designation: DB3 ISOLATOR	Overcurrent protective device for the distribution circuit: Type: 60898 BS(EN)	Rating: 63	Associated RCD (if any): BS(EN)	RCD No of poles: N/A	$I_{\Delta n}$: N/A mA

CIRCUIT DETAILS

Circuit number and line	Circuit designation	Type of wiring (see code below)	Reference method	Number of points served	Circuit conductors: csa		Max. disconnection time permitted by BS 7671 (s)	Overcurrent protective devices			RCD		
					Live (mm ²)	cpc (mm ²)		BS (EN)	Type	Rating (A)	Short-circuit capacity (kA)	Operating current, $I_{\Delta n}$ (mA)	Maximum Z_s permitted by BS 7671 (Ω)
1	DB3	A	B	1	16	6	0.4	3036	N/A	60	N/A	N/A	N/A
2	SPARE												

↑ See Table 4A2 of Appendix 4 of BS 7671

CODES FOR TYPE OF WIRING								
A	B	C	D	E	F	G	H	0 (Other - please state)
Thermoplastic insulated/sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in non-metallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in non-metallic trunking	Thermoplastic /SWA cables	Thermosetting/SWA cables	Mineral-insulated cables	

* In such cases, details of the distribution (sub-main) circuit(s), together with the test results for the circuit(s), must also be provided on continuation schedules.

SCHEDULE OF TEST RESULTS FOR THE INSTALLATION - CONTINUATION

Contractor's Reference Number

CRN/ 151240

<p>TO BE COMPLETED ONLY IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION</p> <p style="text-align: center;">Characteristics at this distribution board</p> <p style="text-align: center;"><input checked="" type="checkbox"/> Confirmation of supply polarity</p> <p><small>★ See note below</small></p> <p>Z_s * 0.13 Ω Operating times At $I_{\Delta n}$ N/A ms</p> <p>I_{pf} * 2.0 kA RCD (if any) At $5I_{\Delta n}$ (if applicable) N/A ms</p> <p>Phase sequence confirmed (where appropriate) N/A (✓)</p>	<p style="text-align: center;">Test instruments (serial numbers) used:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Earth fault loop impedance</td> <td style="width: 50%;">RCD</td> </tr> <tr> <td>Insulation resistance</td> <td>Multi-function 4562</td> </tr> <tr> <td>Continuity</td> <td>Other</td> </tr> </table>	Earth fault loop impedance	RCD	Insulation resistance	Multi-function 4562	Continuity	Other
Earth fault loop impedance	RCD						
Insulation resistance	Multi-function 4562						
Continuity	Other						

TEST RESULTS

Circuit number and line	Circuit impedances (Ω)					Insulation resistance † Record lower or lowest value				Polarity (✓)	Maximum measured earth fault loop impedance, Z_s † (Ω)	RCD		
	Ring final circuits only (measured end to end)			All circuits (At least one column to be completed)		Line/Line †	Line/Neutral †	Line/Earth †	Neutral/Earth			operating times		Test button operation (✓)
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	R_2	(M Ω)	(M Ω)	(M Ω)	(M Ω)			at $I_{\Delta n}$ (ms)	at $5I_{\Delta n}$ (if applicable) (ms)	
1	N/A	N/A	N/A	0.03	N/A	N/A	299	299	299	✓	0.16	N/A	N/A	N/A
2														

* Note: Where the installation can be supplied by more than one source, such as a primary source (e.g. public supply) and a secondary source (e.g. standby generator), the higher or highest values must be recorded.

TESTED BY
Signature:

Position: TEST ENGINEER

Page 16 of 37

Name: ALAN OLDHAM
(CAPITALS)

Date of testing: 17/12/2015

See previous page for Circuit Details

SCHEDULE OF CIRCUIT DETAILS FOR THE INSTALLATION - CONTINUATION

Contractor's Reference Number

CRN/ 151240

TO BE COMPLETED IN EVERY CASE	TO BE COMPLETED ONLY IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION*			
Location of distribution board: 1ST FLOOR KITCHEN Distribution board designation: DB3	Supply to distribution board is from: DB3 ISOLATOR [1] Overcurrent protective device for the distribution circuit: Type: 3036 BS(EN) Rating: 60	No of phases: 1 Associated RCD (if any): BS(EN) Type: A RCD No of poles: 2	Nominal voltage: 230 V I _{Δn} N/A mA	

CIRCUIT DETAILS													
Circuit number and line	Circuit designation	Type of wiring (see code below)	Reference method	Number of points served	Circuit conductors: csa			Overcurrent protective devices			RCD		Maximum Z _s permitted by BS 7671 (Ω)
					Live (mm ²)	cpc (mm ²)	Max. disconnection time permitted by BS 7671 (s)	BS (EN)	Type	Rating (A)	Short-circuit capacity (kA)	Operating current, I _{Δn} (mA)	
1	Cooker	A	B	1	6	2.5	5	3871	1	40	6	N/A	1.20
2	Top Floor Sockets	A	B	3	2.5	1.5	0.4	3871	2	30	6	N/A	0.91
3	Water Heater Under Sink	A	B	1	2.5	1.5	0.4	3871	2	15	6	N/A	1.83
4	Water Heater Above Counter	A	B	1	2.5	1.5	0.4	3871	2	15	6	N/A	183
5	Kitchen Sockets	A	B	2	2.5	1.5	0.4	3871	2	30	6	N/A	0.91
6	Stairwell and landing EM	A	B	10	1.5	1.0	0.4	3871	2	15	6	N/A	1.83
7	Lights: Kitchen and Landing EM	A	B	2	1.5	1.0	0.4	3871	2	15	6	N/A	1.83
8	top Floor Lights	A	B	2	2.5	1.5	0.4	3871	2	5	6	N/A	5.48
9	Xmas Tree Lanterns and Cross Street	A	B	N/T	6	2.5	0.4	3871	2	15	6	N/A	1.83

* See Table 4A2 of Appendix 4 of BS 7671

CODES FOR TYPE OF WIRING								
A	B	C	D	E	F	G	H	O (Other - please state)
Thermoplastic insulated/sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in non-metallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in non-metallic trunking	Thermoplastic /SWA cables	Thermosetting / SWA cables	Mineral-insulated cables	

* In such cases, details of the distribution (sub-main) circuit(s), together with the test results for the circuit(s), must also be provided on continuation schedules.

See next page for Schedule of Test Results

SCHEDULE OF CIRCUIT DETAILS FOR THE INSTALLATION - CONTINUATION

Contractor's Reference Number

CRN/ 151240

TO BE COMPLETED IN EVERY CASE	TO BE COMPLETED ONLY IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION*			
Location of distribution board: Rear of Reception	Supply to distribution board is from: DB1 [3L3]	No of phases: 1	Nominal voltage: 230	V
Distribution board designation: DB2	Overcurrent protective device for the distribution circuit: Type: 60898 BS(EN)	Rating: 63	Associated RCD (if any): BS(EN) RCD No of poles: N/A	$I_{\Delta n}$ N/A mA

CIRCUIT DETAILS													
Circuit number and line	Circuit designation	Type of wiring (see code below)	Reference method	Number of points served	Circuit conductors: csa			Overcurrent protective devices				RCD	
					Live (mm ²)	cpc (mm ²)	Max. disconnection time permitted by BS 7671 (s)	BS (EN)			Operating current, $I_{\Delta n}$ (mA)	Maximum Z_s permitted by BS 7671 (Ω)	
								Type	Rating (A)	Short-circuit capacity (kA)			
1	Water HTR Gents W/C	A	B	1	2.5	1.5	0.4	60898	B	16	6	N/A	2.40
2	Lights: Toilets and Passage	A	B	10	1.5	1.0	0.4	60898	B	6	6	N/A	6.40
3	Lights: Office 4 and Reception and Kitchen	A	B		1.5	1.0	0.4	60898	B	6	6	N/A	6.40
4	Lights: Office 1 and 2 and 3	A	B	10	1.5	1.0	0.4	60898	B	6	6	N/A	6.40
5	Lights: Office 1 and EMs	A	B	10	1.5	1.0	0.4	60898	B	6	6	N/A	6.40
6	SPARE												
7	RCD												
7.1	Sockets: Reception, Kitchen, Front Foyer Office	A	B	14	2.5	1.5	0.4	60898	B	32	6	N/A	1.20
7.2	Sockets: Rear Reception, Office 1, 2, 3, WC, Lobby	A	B	18	2.5	1.5	0.4	60898	B	32	6	N/A	1.20
7.3	H/Dryer Gents &&& Ladies	A	B	2	2.5	1.5	0.4	60898	B	32	6	N/A	1.20
7.4	Unfound	A	B	N/T	2.5	1.5	0.4	60898	B	16	6	N/A	2.40
7.5	Water HTR Female W/C	A	B	1	2.5	1.5	0.4	60898	B	16	6	N/A	2.40
7.6	Water HTR Kitchen	A	B	1	2.5	1.5	0.4	60898	B	16	6	N/A	2.40

↑ See Table 4A2 of Appendix 4 of BS 7671

CODES FOR TYPE OF WIRING								
A	B	C	D	E	F	G	H	0 (Other - please state)
Thermoplastic insulated/sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in non-metallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in non-metallic trunking	Thermoplastic /SWA cables	Thermosetting/ SWA cables	Mineral-insulated cables	

* In such cases, details of the distribution (sub-main) circuit(s), together with the test results for the circuit(s), must also be provided on continuation schedules.

See next page for
Schedule of Test Results

SCHEDULE OF TEST RESULTS FOR THE INSTALLATION - CONTINUATION

Contractor's Reference Number

CRN/ 151240

<p style="text-align: center; font-weight: bold;">TO BE COMPLETED ONLY IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION</p> <p style="text-align: center;">Characteristics at this distribution board</p> <p style="text-align: center;"><input checked="" type="checkbox"/> Confirmation of supply polarity</p> <p><small>* See note below</small></p> <p>Z_s * 0.15 Ω Operating times At I_{Δn} N/A ms</p> <p>I_{pf} * 1.55 kA RCD (if any) At 5I_{Δn} N/A ms</p> <p style="text-align: center;">Phase sequence confirmed (where appropriate) N/A (✓)</p>	<p style="text-align: center;">Test instruments (serial numbers) used:</p> <table style="width: 100%;"> <tr> <td style="width: 60%;">Earth fault loop impedance</td> <td style="width: 40%;">RCD</td> </tr> <tr> <td>Insulation resistance</td> <td>Multi-function 4562</td> </tr> <tr> <td>Continuity</td> <td>Other</td> </tr> </table>	Earth fault loop impedance	RCD	Insulation resistance	Multi-function 4562	Continuity	Other
Earth fault loop impedance	RCD						
Insulation resistance	Multi-function 4562						
Continuity	Other						

TEST RESULTS

Circuit number and line	Circuit impedances (Ω)					Insulation resistance † Record lower or lowest value				Polarity (✓)	Maximum measured earth fault loop impedance, Z _s * (Ω)	RCD		
	Ring final circuits only (measured end to end)			All circuits (At least one column to be completed)		Line/Line †	Line/Neutral †	Line/Earth †	Neutral/Earth			operating times		Test button operation (✓)
	r ₁ (Line)	r _n (Neutral)	r ₂ (cpc)	(R ₁ + R ₂)	R ₂	(MΩ)	(MΩ)	(MΩ)	(MΩ)			at I _{Δn} (ms)	at 5I _{Δn} (if applicable) (ms)	
1	N/A	N/A	N/A	0.45	N/A	N/A	299	299	299	✓	0.40	N/A	N/A	N/A
2	N/A	N/A	N/A	0.94	N/A	N/A	N/T	299	299	✓	0.78	N/A	N/A	N/A
3	N/A	N/A	N/A	0.47	N/A	N/A	N/T	299	299	✓	0.58	N/A	N/A	N/A
4	N/A	N/A	N/A	0.31	N/A	N/A	N/T	299	299	✓	0.43	N/A	N/A	N/A
5	N/A	N/A	N/A	0.23	N/A	N/A	N/T	299	299	✓	0.37	N/A	N/A	N/A
6														
7														
7.1	0.20	0.21	0.11	0.31	N/A	N/A	N/T	299	N/T	✓	0.47	N/A	N/A	N/A
7.2	0.38	0.37	0.10	0.26	N/A	N/A	N/T	299	N/T	✓	0.45	N/A	N/A	N/A
7.3	N/A	N/A	N/A	0.31	N/A	N/A	299	299	299	✓	0.40	N/A	N/A	N/A
7.4	N/A	N/A	N/A	N/T	N/A	N/A	N/T	299	N/T	--	N/T	N/A	N/A	N/A
7.5	N/A	N/A	N/A	0.35	N/A	N/A	N/T	299	N/T	✓	0.54	N/A	N/A	N/A
7.6	N/A	N/A	N/A	0.35	N/A	N/A	N/T	299	N/T	✓	0.53	N/A	N/A	N/A

* Note: Where the installation can be supplied by more than one source, such as a primary source (e.g. public supply) and a secondary source (e.g. standby generator), the higher or highest values must be recorded.

TESTED BY
Signature:

Position: TEST ENGINEER

Name: ALAN OLDHAM
(CAPITALS)

Date of testing: 17/12/2015

See previous page
for Circuit Details

Original (To the person ordering the work)

**SCHEDULE OF CIRCUIT DETAILS
FOR THE INSTALLATION - CONTINUATION**

Contractor's Reference Number

CRN/ 151240

TO BE COMPLETED IN EVERY CASE	TO BE COMPLETED ONLY IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION*			
Location of distribution board: Basement Electrical Cupboard	Supply to distribution board is from: Busbar Chamber [2TP]	No of phases: 3	Nominal voltage: 400 V	
Distribution board designation: DB4 & DB5 Isolator	Overcurrent protective device for the distribution circuit: Type: BS(EN)	Associated RCD (if any): BS(EN)	RCD No of poles: N/A	$I_{\Delta n}$: mA
	Rating: A			

CIRCUIT DETAILS

Circuit number and line	Circuit designation	Type of wiring (see code below)	Reference method	Number of points served	Circuit conductors: csa		Max. disconnection time permitted by BS 7671 (s)	Overcurrent protective devices			RCD		Maximum Z_n permitted by BS 7671 (Ω)
					Live (mm ²)	cpc (mm ²)		BS (EN) Type	Rating (A)	Short-circuit capacity (kA)	Operating current, $I_{\Delta n}$ (mA)		
1TP	DB4	G	B	1	25	SWA	5	88	N/A	160	N/A	N/A	0.19
2TP	DB5	G	B	1	25	1.5	5	60947-2	3	100	N/A	N/A	0.17

* See Table 4A2 of Appendix 4 of BS 7671

CODES FOR TYPE OF WIRING								
A	B	C	D	E	F	G	H	0 (Other - please state)
Thermoplastic insulated/sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in non-metallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in non-metallic trunking	Thermoplastic /SWA cables	Thermosetting/SWA cables	Mineral-insulated cables	

* In such cases, details of the distribution (sub-main) circuit(s), together with the test results for the circuit(s), must also be provided on continuation schedules.

See next page for Schedule of Test Results

Contractor's Reference Number

CRN/ 151240

SCHEDULE OF CIRCUIT DETAILS FOR THE INSTALLATION - CONTINUATION

TO BE COMPLETED IN EVERY CASE	TO BE COMPLETED ONLY IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION*			
Location of distribution board: First Floor Kitchen	Supply to distribution board is from: DB4 & DB5 Isolator [1TP]	No of phases: 3	Nominal voltage: 400	V
Distribution board designation: DB4	Overcurrent protective device for the distribution circuit: Type: 88 BS(EN)	Associated RCD (if any): BS(EN) Rating: 160	RCD No of poles: N/A	$I_{\Delta n}$ N/A mA

CIRCUIT DETAILS

Circuit number and line	Circuit designation	Type of wiring (see code below)	Reference method	Number of points served	Circuit conductors: csa			Overcurrent protective devices				RCD Operating current, $I_{\Delta n}$ (mA)	Maximum Z_s permitted by BS 7671 (Ω)
					Live (mm ²)	cpc (mm ²)	Max. disconnection time permitted by BS 7671 (s)	BS (EN)					
								Type	Rating (A)	Short-circuit capacity (kA)			
1L1	SPARE												
1L2	SPARE												
1L3	HTR Right Above Entrance	A	B	1	4	N/T	0.4	60898	D	16	10	N/A	0.68
2L1	SPARE							60898					
2L2	SPARE												
2L3	Unfound	A	B	N/T	4	N/T	0.4	60898	D	16	10	N/A	0.68
3L1	SPARE												
3L2	SPARE												
3L3	HTR Left Above Entrance	A	B	1	4	N/T	0.4	60898	D	16	10	N/A	0.68
4L1	SPARE												
4L2	SPARE												
4L3	Unfound	A	B	N/T	4	N/T	0.4	60898	D	16	10	N/A	0.68
5L1	SPARE												
5L2	SPARE												
5L3	Unfound	A	B	N/T	4	N/T	0.4	60898	D	16	10	N/A	0.68
6L1	SPARE												
6L2	SPARE												
6L3	HTR 1st Left	A	B	1	4	N/T	0.4	60898	D	16	10	N/A	0.68
7L1	SPARE												
7L2	HTR 3rd Left	A	B	1	4	N/T	0.4	60898	D	16	10	N/A	0.68
7L3	SPARE							60898					
8L1	SPARE							60898					
8L2	Unfound	A	B	N/T	4	N/T	0.4	60898	D	16	10	N/A	0.68
8L3	SPARE							60898					

↑ See Table 4A2 of Appendix 4 of BS 7671

CODES FOR TYPE OF WIRING								
A	B	C	D	E	F	G	H	O (Other - please state)
Thermoplastic insulated/sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in non-metallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in non-metallic trunking	Thermoplastic /SWA cables	Thermosetting/ SWA cables	Mineral-insulated cables	N/A

* In such cases, details of the distribution (sub-main) circuit(s), together with the test results for the circuit(s), must also be provided on continuation schedules.

See next page for
Schedule of Test Results

Original (To the person ordering the work)

SCHEDULE OF TEST RESULTS FOR THE INSTALLATION - CONTINUATION

Contractor's Reference Number

CRN/ 151240

<p>TO BE COMPLETED ONLY IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION</p> <p style="text-align: center;">Characteristics at this distribution board</p> <p style="text-align: center;">✓ Confirmation of supply polarity</p> <p><small>* See note below</small></p> <p>Z_s^* 0.15 Ω Operating times At $I_{\Delta n}$ N/A ms</p> <p>I_{pf}^* 1.75 kA RCD (if any) At $5I_{\Delta n}$ (if applicable) N/A ms</p> <p style="text-align: center;">Phase sequence confirmed (where appropriate) ✓ (✓)</p>	<p style="text-align: center;">Test instruments (serial numbers) used:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Earth fault loop impedance</td> <td style="width: 50%;">RCD</td> </tr> <tr> <td>Insulation resistance</td> <td>Multi-function 4562</td> </tr> <tr> <td>Continuity</td> <td>Other</td> </tr> </table>	Earth fault loop impedance	RCD	Insulation resistance	Multi-function 4562	Continuity	Other
Earth fault loop impedance	RCD						
Insulation resistance	Multi-function 4562						
Continuity	Other						

TEST RESULTS														
Circuit number and line	Circuit impedances (Ω)					Insulation resistance <small>† Record lower or lowest value</small>				Polarity (✓)	Maximum measured earth fault loop impedance, Z_s^* (Ω)	RCD		
	Ring final circuits only (measured end to end)			All circuits (At least one column to be completed)		Line/Line †	Line/Neutral †	Line/Earth †	Neutral/Earth			operating times		Test button operation (✓)
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	R_2	(M Ω)	(M Ω)	(M Ω)	(M Ω)			at $I_{\Delta n}$ (ms)	at $5I_{\Delta n}$ (if applicable) (ms)	
1L1														
1L2														
1L3	N/A	N/A	N/A	N/T	N/A	N/A	N/T	N/T	N/T	✓	0.15	N/A	N/A	N/A
2L1														
2L2														
2L3	N/A	N/A	N/A	N/T	N/A	N/A	N/T	N/T	N/T	--	N/T	N/A	N/A	N/A
3L1														
3L2														
3L3	N/A	N/A	N/A	N/T	N/A	N/A	N/T	N/T	N/T	✓	0.17	N/A	N/A	N/A
4L1														
4L2														
4L3	N/A	N/A	N/A	N/T	N/A	N/A	N/T	N/T	N/T	--	N/T	N/A	N/A	N/A
5L1														
5L2														
5L3	N/A	N/A	N/A	N/T	N/A	N/A	N/T	N/T	N/T	--	N/T	N/A	N/A	N/A
6L1														
6L2														
6L3	N/A	N/A	N/A	N/T	N/A		N/T	N/T	N/T	✓	0.17	N/A	N/A	N/A
7L1														
7L2	N/A	N/A	N/A	N/T	N/A	N/A	N/T	N/T	N/T	✓	0.17	N/A	N/A	N/A
7L3														
8L1														
8L2	N/A	N/A	N/A	N/T	N/A	N/A	N/T	N/T	N/T	--	N/T	N/A	N/A	N/A
8L3														

* Note: Where the installation can be supplied by more than one source, such as a primary source (e.g. public supply) and a secondary source (e.g. standby generator), the higher or highest values must be recorded.

TESTED BY

Signature:

Position: Test Engineer

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Name: ALAN OLDHAM
(CAPITALS)

Date of testing: 17/12/2015

See previous page for Circuit Details

Contractor's Reference Number

CRN/ 151240

SCHEDULE OF CIRCUIT DETAILS FOR THE INSTALLATION - CONTINUATION

TO BE COMPLETED IN EVERY CASE	TO BE COMPLETED ONLY IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION*			
Location of distribution board: First Floor Kitchen	Supply to distribution board is from: DB4 & DB5 Isolator [1TP]	No of phases: 3	Nominal voltage: 400 V	
Distribution board designation: DB4	Overcurrent protective device for the distribution circuit: Type: 88 BS(EN)	Associated RCD (if any): BS(EN)	RCD No of poles: N/A	
	Rating: 160	A	$I_{\Delta n}$ N/A	mA

CIRCUIT DETAILS													
Circuit number and line	Circuit designation	Type of wiring (see code below)	Reference method	Number of points served	Circuit conductors: csa		Max. disconnection time permitted by BS 7671 (s)	Overcurrent protective devices			RCD		
					Live (mm ²)	cpc (mm ²)		BS (EN)	Type	Rating (A)	Short-circuit capacity (kA)	Operating current, $I_{\Delta n}$ (mA)	Maximum Z_e permitted by BS 7671 (Ω)
9L1	SPARE							60898					
9L2	HTR 2nd Left	A	B	1	4	N/T	0.4	60898	D	16	10	N/A	0.68
9L3	SPARE												
10L1	SPARE												
10L2	Unfound	A	B	N/T	4	N/T	0.4	60898	D	16	10	N/A	0.68
10L3	SPARE							61008					
11L1	SPARE												
11L2	Unfound	A	B	N/T	4	N/T	0.4	60898	D	16	10	N/A	0.68
11L3	SPARE												
12L1	SPARE												
12L2	HTR 1st Right	A	B	1	4	N/T	0.4	60898	D	16	10	N/A	0.68
12L3	SPARE												
13L1	Unfound	A	B	N/T	4	N/T	0.4	60898	D	16	10	N/A	0.68
13L2	SPARE												
13L3	SPARE												
14L1	Unfound	A	B	N/T	4	N/T	0.4	60898	D	16	10	N/A	0.68
14L2	SPARE												
14L3	SPARE												
15L1	Unfound	A	B	N/T	4	N/T	0.4	60898	D	16	10	N/A	0.68
15L2	SPARE												
15L3	SPARE												
16L1	Unfound	A	B	N/T	4	N/T	0.4	60898	D	16	10	N/A	0.68
16L2	SPARE												
16L3	SPARE												

↑ See Table 4A2 of Appendix 4 of BS 7671

CODES FOR TYPE OF WIRING								
A	B	C	D	E	F	G	H	0 (Other - please state)
Thermoplastic insulated/sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in non-metallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in non-metallic trunking	Thermoplastic /SWA cables	Thermosetting/ SWA cables	Mineral-insulated cables	N/A

* In such cases, details of the distribution (sub-main) circuit(s), together with the test results for the circuit(s), must also be provided on continuation schedules.

This certificate is based on the model forms shown in Appendix 6 of BS 7671

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See next page for
Schedule of Test Results

SCHEDULE OF TEST RESULTS FOR THE INSTALLATION - CONTINUATION

Contractor's Reference Number

CRN/ 151240

TO BE COMPLETED ONLY IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION	Test instruments (serial numbers) used:
<p style="text-align: center;">Characteristics at this distribution board</p> <p style="text-align: center;">✓ Confirmation of supply polarity</p> <p><small>* See note below</small></p> <p>Z_s 0.15 Ω Operating times At $I_{\Delta n}$ N/A ms</p> <p>I_{pf} 1.75 kA RCD (if any) At $5I_{\Delta n}$ (if applicable) N/A ms</p> <p style="text-align: center;">Phase sequence confirmed (where appropriate) ✓ (✓)</p>	<p>Earth fault loop impedance RCD</p> <p>Insulation resistance Multi-function 4562</p> <p>Continuity Other</p>

TEST RESULTS

Circuit number and line	Circuit impedances (Ω)					Insulation resistance † Record lower or lowest value				Polarity (✓)	Maximum measured earth fault loop impedance, Z_s^* (Ω)	RCD		
	Ring final circuits only (measured end to end)			All circuits (At least one column to be completed)		Line/Line †	Line/Neutral †	Line/Earth †	Neutral/Earth			operating times		Test button operation (✓)
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	R_2	(M Ω)	(M Ω)	(M Ω)	(M Ω)			at $I_{\Delta n}$ (ms)	at $5I_{\Delta n}$ (if applicable) (ms)	
9L1														
9L2	N/A	N/A	N/A	N/T	N/A	N/A	N/T	N/T	N/T	✓	0.17	N/A	N/A	N/A
9L3														
10L1														
10L2	N/A	N/A	N/A	N/T	N/A	N/A	N/T	N/T	N/T	--	N/T	N/A	N/A	N/A
10L3														
11L1														
11L2	N/A	N/A	N/A	N/T	N/A	N/A	N/T	N/T	N/T	--	N/T	N/A	N/A	N/A
11L3														
12L1														
12L2	N/A	N/A	N/A	N/T	N/A	N/A	N/T	N/T	N/T	✓	0.18	N/A	N/A	N/A
12L3														
13L1	N/A	N/A	N/A	N/T	N/A	N/A	N/T	N/T	N/T	--	N/T	N/A	N/A	N/A
13L2														
13L3														
14L1	N/A	N/A	N/A	N/T	N/A	N/A	N/T	N/T	N/T	--	N/T	N/A	N/A	N/A
14L2														
14L3														
15L1	N/A	N/A	N/A	N/T	N/A	N/A	N/T	N/T	N/T	--	N/T	N/A	N/A	N/A
15L2														
15L3														
16L1	N/A	N/A	N/A	N/T	N/A	N/A	N/T	N/T	N/T	--	N/T	N/A	N/A	N/A
16L2														
16L3														

* Note: Where the installation can be supplied by more than one source, such as a primary source (e.g. public supply) and a secondary source (e.g. standby generator), the higher or highest values must be recorded.

TESTED BY

Signature:

Position: Test Engineer

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Name: ALAN OLDHAM
(CAPITALS)

Date of testing: 17/12/2015

See previous page
for Circuit Details

Contractor's Reference Number

CRN/ 151240

SCHEDULE OF CIRCUIT DETAILS FOR THE INSTALLATION - CONTINUATION

TO BE COMPLETED IN EVERY CASE	TO BE COMPLETED ONLY IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION*			
Location of distribution board: First Floor Kitchen	Supply to distribution board is from: DB4 & DB5 Isolator [1TP]	No of phases: 3	Nominal voltage: 400 V	
Distribution board designation: DB4	Overcurrent protective device for the distribution circuit: Type: 88 BS(EN)	Associated RCD (if any): BS(EN) Rating: 160 A	RCD No of poles: N/A	$I_{\Delta n}$ N/A mA

CIRCUIT DETAILS														
Circuit number and line	Circuit designation	Type of wiring (see code below)	Reference method	Number of points served	Circuit conductors: csa			Overcurrent protective devices					RCD	
					Live (mm ²)	cpc (mm ²)	Max. disconnection time permitted by BS 7671 (s)	BS (EN)			Operating current, $I_{\Delta n}$ (mA)	Maximum Z_s permitted by BS 7671 (Ω)		
								Type	Rating (A)	Short-circuit capacity (kA)				
17L1	Unfound	A	B	N/T	4	N/T	0.4	60898	D	16	10	N/A	0.68	
17L2	SPARE													
17L3	SPARE													
18L1	Unfound	A	B	N/T	4	N/T	0.4	60898	D	16	10	N/A	0.68	
18L2	SPARE													
18L3	SPARE													
19L1	HTR 2nd Right	A	B	1	4	N/T	0.4	60898	D	16	10	N/A	0.68	
19L2	SPARE													
19L3	SPARE													
20L1	RCD 61008 Main Switch	A	B	N/T	4	N/T	0.4	60898	D	16	10	N/A	0.68	
20L2	SPARE													
20L3	SPARE													
21L1	Unfound	A		N/T	4	N/T	0.4	60898	D	16	10	N/A	0.68	
21L2	SPARE													
21L3	SPARE													

* See Table 4A2 of Appendix 4 of BS 7671

CODES FOR TYPE OF WIRING								
A	B	C	D	E	F	G	H	O (Other - please state)
Thermoplastic insulated/sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in non-metallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in non-metallic trunking	Thermoplastic /SWA cables	Thermosetting/SWA cables	Mineral-insulated cables	N/A

* In such cases, details of the distribution (sub-main) circuit(s), together with the test results for the circuit(s), must also be provided on continuation schedules.

See next page for
Schedule of Test Results

Original (To the person ordering the work)

SCHEDULE OF CIRCUIT DETAILS FOR THE INSTALLATION - CONTINUATION

Contractor's Reference Number

CRN/ 151240

TO BE COMPLETED IN EVERY CASE	TO BE COMPLETED ONLY IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION*			
Location of distribution board: First Floor Kitchen	Supply to distribution board is from: DB4 & DB5 Isolator [2TP]	No of phases: 3	Nominal voltage: 230 V	
Distribution board designation: DB5	Overcurrent protective device for the distribution circuit: Type: 60947-2 BS(EN)	Associated RCD (if any): BS(EN) Rating: 100 A	RCD No of poles: N/A	$I_{\Delta n}$ N/A mA

CIRCUIT DETAILS														
Circuit number and line	Circuit designation	Type of wiring (see code below)	Reference method	Number of points served	Circuit conductors: csa			Max. disconnection time permitted by BS 7671 (s)	Overcurrent protective devices				RCD	
					Live (mm ²)	cpc (mm ²)	BS (EN)		Short-circuit capacity (kA)	Operating current, $I_{\Delta n}$ (mA)	Maximum Z_s permitted by BS 7671 (Ω)			
							Type					Rating (A)		
1L1	Main Hall Ring Main	A	B	9	2.5	1.5	0.4	61009	B	32	6	30	1.20	
1L2	Lights: Hall Covins	A	B	24	1.5	1.0	0.4	61009	B	10	6	N/A	5.84	
1L3	Lights: Hall Wall	A	B	6	1.5	1.0	0.4	61009	B	10	6	N/A	5.84	
2L1	Lights: Hall Chandeliers and EMs	A	B	5	1.5	1.0	0.4	61009	B	10	6	N/A	5.84	
2L2	Spare													
2L3	Spare													
3L1	Spare													
3L2	Spare													
3L3	SPARE													
4L1	SPARE													
4L2	SPARE													
4L3	SPARE													
5L1	SPARE													
5L2	SPARE													
5L3	SPARE													
6L1	SPARE													
6L2	SPARE													
6L3	SPARE													
7L1	SPARE													
7L2	SPARE													
7L3	SPARE													
8L1	SPARE													
8L2	SPARE													
8L3	SPARE													

↑ See Table 4A2 of Appendix 4 of BS 7671

CODES FOR TYPE OF WIRING								
A	B	C	D	E	F	G	H	O (Other - please state)
Thermoplastic insulated/sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in non-metallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in non-metallic trunking	Thermoplastic /SWA cables	Thermosetting/SWA cables	Mineral-insulated cables	N/A

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* In such cases, details of the distribution (sub-main) circuit(s), together with the test results for the circuit(s), must also be provided on continuation schedules.

This certificate is based on the model forms shown in Appendix 6 of BS 7671

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See next page for
Schedule of Test Results

SCHEDULE OF TEST RESULTS FOR THE INSTALLATION - CONTINUATION

Contractor's Reference Number

CRN/ 151240

<p>TO BE COMPLETED ONLY IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION</p> <p style="text-align: center;">Characteristics at this distribution board</p> <p style="text-align: center;">✓ Confirmation of supply polarity</p> <p><small>* See note below</small></p> <p>Z_s^* 0.17 Ω Operating times at $I_{\Delta n}$ N/A ms</p> <p>I_{pf}^* 1.54 kA RCD (if any) At $5I_{\Delta n}$ (if applicable) N/A ms</p> <p style="text-align: right;">Phase sequence confirmed (where appropriate) N/A (✓)</p>	<p style="text-align: center;">Test instruments (serial numbers) used:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Earth fault loop impedance</td> <td style="width: 50%;">RCD</td> </tr> <tr> <td>Insulation resistance</td> <td>Multi-function 4562</td> </tr> <tr> <td>Continuity</td> <td>Other</td> </tr> </table>	Earth fault loop impedance	RCD	Insulation resistance	Multi-function 4562	Continuity	Other
Earth fault loop impedance	RCD						
Insulation resistance	Multi-function 4562						
Continuity	Other						

TEST RESULTS

Circuit number and line	Circuit impedances (Ω)					Insulation resistance <small>† Record lower or lowest value</small>				Polarity (✓)	Maximum measured earth fault loop impedance, Z_s^* (Ω)	RCD		
	Ring final circuits only (measured end to end)			All circuits (At least one column to be completed)		Line/Line †	Line/Neutral †	Line/Earth †	Neutral/Earth			operating times		Test button operation (✓)
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	R_2	(M Ω)	(M Ω)	(M Ω)	(M Ω)			at $I_{\Delta n}$ (ms)	at $5I_{\Delta n}$ (if applicable) (ms)	
1L1	0.95	0.96	1.45	0.26	N/A	N/A	299	299	299	✓	0.62	17.8	28.1	✓
1L2	N/A	N/A	N/A	N/T	N/A	N/A	N/T	299	299	✓	0.25	N/A	N/A	N/A
1L3	N/A	N/A	N/A	N/T	N/A	N/A	N/T	299	299	✓	0.20	N/A	N/A	N/A
2L1	N/A	N/A	N/A	N/T	N/A	N/A	N/T	299	299	✓	0.22	N/A	N/A	N/A
2L2														
2L3														
3L1														
3L2														
3L3														
4L1														
4L2														
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7L1														
7L2														
7L3														
8L1														
8L2														
8L3														

* Note: Where the installation can be supplied by more than one source, such as a primary source (e.g. public supply) and a secondary source (e.g. standby generator), the higher or highest values must be recorded.

TESTED BY

Signature:

Position: Test Engineer

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Name: ALAN OLDHAM
(CAPITALS)

Date of testing: 17/12/2015

See previous page
for Circuit Details

ELECTRICAL INSTALLATION CONDITION REPORT - SECTION F CONTINUATION SHEET

Contractor's Reference Number

CRN/151240

Issued in accordance with *British Standard 7671 - Requirements for Electrical Installations* by an Approved Contractor or Conforming Body enrolled with NICEIC, Warwick House, Houghton Hall Park, Houghton Regis, Dunstable LU5 5ZX

F. OBSERVATIONS AND RECOMMENDATIONS FOR ACTIONS TO BE TAKEN (Continuation sheet)

Continued from Section F of page 2 of the Report

Item No	Observations	Code [†]
20	6.13 DB2 cct 2L3 has 3 different breakers terminated in MCB - These should be separated out as they are primary ccts for IT file server, intruder alarms and office PCs - dedicated ccts should be used where possible - DB has no further capacity.	C3
21	6.14 See Observation Table	C2
22	6.21.4 Blanking grommet required in DB5	C3
23	6.24 DB3 = Kitchen socket has cracked facia - require replacement. Circuit 6L2 has cracked facia to light switch on landing.	C2
24	6.27 Neutral bar in DB is loose, requires correct fixing to casing.	C3
25	10.0 DB6 circuit 6L1 has no emergency lighting for escape route from basement area.	C3
26	DB10 = no testing to final circuits as they are high level RCD sockets on outside building.	LIM
27	Note 5.7: DB3, DB4, DB5 = DB casing showing signs of aging.	C3
28	NOTE 5.11: DB4 = All breakers are type D for heater circuits.	C2
29	DB5 = EM lights in main hall are not functioning when power removes - require further investigation.	LIM
30	DB7 = No readings are recorded for this DB as it has a 110v supply to it via spur and transformer - all outgoing circuits to cameras have not been tested as an agreed limitation.	LIM
31	5.1: DB1 = Unable to access boiler compartment circuit 24 - no R1R2, L-N, Zs readings taken.	C3
32	5.1: DB9 - circuit 4 has accessory face plate located behind heater - unable to test circuit no R1/R2 reading recorded.	C3
33	5.1 DB3 CCT 9L2 - no readings recorded - cct suppls high level commando skt + adapter boxes on front of building for xmas lights.	C3
34	6.1: DB1 = conductors in DB not labelled. DB2= Conductors in DB not labelled. DB2= DB2 circuit not found.	C3
35	6.1: DB3 = Conductors in DB not labelled. Neutral conductors not in correct sequence in neutral bar, unable to identify correct neutrals.	C3
36	6.1: DB5 = Circuit conductor not identified in DB.	C3
37	6.1: DB4 = Ccts 2L3,4L3,5L3,8L2,10L2,11L2,13L1,14L1,15L1,16L1,17L1,18L1,20L1,12L1 = unfound, but are associated with high level spurs in main hall + switch panels(kitchen) - further invest.required to define cct layouts to spurs.	C3
38	6.1 DB4 cont = No R1/R2,L-N,L-E,L-N readings taken for ccts above bcs supply high level spur points in main hall. Cct conductor not identified in DB.	C3
39	6.14:Main Intake =main busbar chamber has fire alarm cct wiring traversing through cabinet. No rubber matting at main switch gear. No emergency lts in main electrical cupboard.	C3
40	6.14:DB1 = DB internal wiring very untidy = difficult to access neutral bar - limited testing of L-N,N-E readings. DB has cct cables using connector blocks to extend cables - requires replacement for crimps to cables	C3
41	6.14:DB2 =Neutral bar on rod side of DB difficult to access - No L-N, N-E readings for ccts 1L3,2L3,4L3,5L3,6L3.	C3
42	6.14 DB3 =DB casing = old mineral cables glanded + left unterminated inside, could be removed. Old mineral skt above counter disconnected in DB, could remove.	C3
43	6.14 DB3 Cont = Cct 2L2 top floor skts has extensive use of extension leads due to lack of skts in office.	C3

[†] One of the following codes, as appropriate, has been allocated to each of the observations made above to indicate to the person(s) responsible for the installation the degree of urgency for remedial action:

- Code C1** 'Danger present'. Risk of injury. Immediate remedial action required.
- Code C2** 'Potentially dangerous'. Urgent remedial action required.
- Code C3** 'Improvement recommended'.
- Code FI** 'Further investigation required without delay'.

Immediate remedial action required for items:

Urgent remedial action required for items: 21, 23, 28

Further investigation required without delay for items:

Improvement recommended for items: 20, 22, 24-25, 27, 31-43

Please see the reverse of page 2 of the report for guidance regarding the Classification codes.

NOTE: Continuation sheet(s) must be identified by the Electrical Installation Condition Report Serial Number and Page Number(s).