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# NAPIT Electrical Installation Condition Report

Requirements for Electrical Installations –  
BS 7671:2008 incorporating Amendment No.3, 2015  
[IET Wiring Regulations 17th Edition]

NA/  
EICR

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## A Details of the installation

Client MARTIN WILSON  
Address 22 ST. AUBANS ROAD  
BRYNMILL  
SWANSEA  
Postcode SA2 0BP

Installation (If different from client)  
Address

Postcode

## B Reason for producing this report This form to be used only for reporting on the condition of an existing installation.

### CLIENT REQUEST

Date(s) on which the inspection and testing were carried out 31/10/18 to 31/10/18

## C Details of the installation which is the subject of this report

Description of premises Domestic  Commercial  Industrial  Other (please state) —

Estimated age of the wiring system 25+ years

Evidence of alterations or addition  Yes  No  Not apparent If 'Yes', estimated 10 years

Records of installation available  Yes  No Records held by N/A

Date of last inspection 0/0 Electrical Installation Certificate No. or previous Inspection Report No. —

## D Extent and limitations of inspection and testing

Extent of electrical installation covered by this report:

### ENTIRE ELECTRICAL INSTALLATION

Agreed limitations (See Regulations 634.2) Agreed with: N/A

Operational limitations including the reasons (see page no 1 of 1) N/A

The inspection and testing detailed within this report and accompanying schedule has been carried out in accordance with BS 7671: 2008

(IET Wiring Regulations), amended to 2015 (date). It should be noted that cables concealed within the trunkings and conduits, under floors, in roof spaces and generally within the fabric of the building or underground have not been inspected unless specifically agreed between the client and inspector prior to the inspection. An inspection should be made within an accessible roof space housing other electrical equipment.

## E Summary of the condition of the installation

General conditions of the Installation (in terms of safety)

FAIR AT TIME OF TESTING. SOME AREAS OF INSTALLATION SHOWING SIGNS OF AGING.

Overall assessment of the installation in terms of its suitability for continued use SATISFACTORY  UNSATISFACTORY

\* An UNSATISFACTORY assessment indicates that dangerous (code C1) and/or potentially dangerous (code C2) conditions have been identified

## F Recommendations

Where the overall assessment of the suitability of the installation for continued use above is stated as UNSATISFACTORY, I / we recommend that any observations classified as 'Danger present' (code C1) or 'Potentially dangerous' (code C2) are acted upon as a matter of urgency. Investigation without delay is recommended for observations identified as 'further investigation required' (code F1). Observations classified as 'Improvement recommended' (code C3) should be given due consideration. Subject to the necessary remedial action being taken, I / we recommend that the installation is further inspected and tested by 30/10/28 (date)

## 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 above, having exercised reasonable skill and care when carrying out the inspection and testing, hereby declare that the information in this report, including the observations and the attached schedules, provides an accurate assessment of the condition of the electrical installation taking into account the stated extent and limitations in section D of this report.

Company RESPONSE ELEC LTD

Membership No. 30941

Address 27 BRYN ST.

BRYN MILL

SWANSEA

Postcode SA2 0BP

Inspected and tested by

Authorised for issue by

Name: P. WALTER

P. WALTER

Signature: P. WALTER

P. WALTER

Position: DIRECTOR

DIRECTOR

Date: 31/10/18

31/10/18

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## H Schedule(s)

3 schedule(s) of inspection and 1 schedule(s) of test results are attached.

The attached schedule(s) are part of this document and this report is valid only when they are attached to it.

This form is based on the requirements of Appendix 6 of BS 7671

NAPIT Administration Centre, 4th Floor, Mill 3, Pleasley Vale Business Park, Mansfield, Nottinghamshire NG19 8RL

NA/EICR/DOM/CF/001 (V3)



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## Supply characteristics and earthing arrangements Tick boxes and enter details, as appropriate

Earthing Arrangements TN-S  TN-C-S  TT  Other  Please specify: —

Number & type of live conductors a.c.  d.c.  No. of phases 1 No. of wires 2

## Nature of Supply Parameters (Note: (') by enquiry, (") by enquiry or by measurement)

Nominal voltage, U/U<sub>0</sub>(<sup>1</sup>) 230 V Nominal frequency, f(<sup>1</sup>) 50 Hz Confirmation of supply polarity

Prospective fault current, I<sub>pf</sub> (<sup>1</sup>) 1.2 kA External loop impedance, Z<sub>e</sub> (<sup>1</sup>) 0.21 Ω

Supply Protective Device BS(EN) 38 Type — Nominal Current Rating 60 A

## Other Sources of Supply (as detailed in attached schedule) —

## J Particulars of installation referred to in this report Tick boxes and enter details, as appropriate

Means of Earthing Distributor's facility  Installation earth electrode —

Details of Installation earth electrode (where applicable) Type (e.g. rod(s), tape etc) N/A

Location N/A

Main Protective Conductors Material Csa (mm<sup>2</sup>)

Main Earthing Conductor COPPER 16

Protective Bonding Conductor COPPER 10

Main Supply Conductor(s) COPPER 16

## Main Switch / Switch-Fuse/ Circuit Breaker / RCD

Location DB BS (EN) 60947-3 No. of Poles 2

Current rating 100 A Fuse/device rating or setting — A Voltage rating 230 V

If RCD main switch: Rated residual operating current I<sub>Δn</sub> = — mA Rated time delay — ms (at I<sub>Δn</sub>)

Measured operating time at I<sub>Δn</sub> = — ms

## K Observations

Referring to the attached schedule of inspection and test results, and subject to the limitations at Section D.

No remedial work required

The following observations are made

## Explanation of codes

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

C2. Potentially dangerous. Urgent remedial action required.

C3. Improvement recommended.

FI. Further investigation required without delay

Item No.	Observations	Code
1	NO VISIBLE WATER BOND. SATISFACTORY READING OBTAINED.	C3
2	IDENTIFICATION OF CONDUCTORS NOT PRESENT IN SOME AREAS OF INSTALLATION	C3
3	CONSUMER UNIT MADE OF COMBUSTIBLE MATERIAL	—
4	LIGHTING COREWIRING NOT RED PROTECTED	C3
5	NOT ALL CABLES BURIED IN WALLS LESS THAN 50MM HAVE RED PROTECTION	C3
6	NOT ALL CABLES BURIED IN WALLS REGARDLESS OF DEPTH HAVE RED PROTECTION	C3

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Note: For additional report pages use the continuation report form with the relevant serial number and page numbers detailed on each page.

C1 Immediate remedial work required for items

C2 Urgent remedial work required for items

C3 Improvement(s) recommended for items

FI Further investigation required without delay

1, 2, 4, 5 + 6



# Condition Report Inspection Schedule

## for Domestic and Similar Premises with up to 100A Supply

Note: This form is suitable for many types of smaller installation not exclusively domestic.

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### Schedule of Inspections

#### Outcomes

Acceptable condition: <input checked="" type="checkbox"/>	Unacceptable condition: State C1 or C2	Improvement recommended: C3	Further investigation FI	Not verified: NV	Limitation: Lim	Not applicable N/A
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(In the Outcome column use the codes above. Provide additional comment where appropriate. C1/C2/C3 and FI coded items to be recorded in section K of the condition report)

Please Select  
Outcome / Investigation  
As Required

Item No.	Description	Outcome
1.0	<b>DISTRIBUTOR'S / SUPPLY INTAKE EQUIPMENT</b>	
1.1	Condition of service cable	/
1.2	Condition of service head	/
1.3	Condition of distributor's earthing arrangement	/
1.4	Condition of meter tails - Distributor / Consumer	/
1.5	Condition of metering equipment	/
1.6	Condition of isolator (where present)	/
2.0	<b>Presence of adequate arrangements for – other sources such as microgenerators [551.6; 551.7]</b>	N/A
3.0	<b>EARTHING / BONDING ARRANGEMENTS (411.3; Chap 54)</b>	/
3.1	Presence and condition of distributor's earthing arrangement [542.1.2.1; 542.1.2.2]	N/A
3.2	Presence and condition of earth electrode connection where applicable [542.1.2.3]	/
3.3	Provision of earthing / bonding labels at all appropriate locations [514.13.1]	/
3.4	Confirmation of earthing conductor size [542.3; 543.1.1]	/
3.5	Accessibility and condition of earthing conductor at MET [543.3.2]	/
3.6	Confirmation of main protective bonding conductor sizes [544.1]	C3
3.7	Condition and accessibility of main protective bonding conductor connections [543.3.2; 544.1.2]	C3
3.8	Accessibility and condition of all other protective bonding connections [543.3.2]	/
4.0	<b>CONSUMERUNIT(S) / DISTRIBUTION BOARD(S)</b>	
4.1	Adequacy of working space / accessibility to consumer unit / distribution board [132.12; 513.1]	/
4.2	Security of fixing [134.1.1]	/
4.3	Condition of enclosure[s] in terms of IP rating etc [416.2]	/
4.4	Condition of enclosure[s] in terms of fire rating etc [421.1.201; 526.5]	/
4.5	Enclosure not damaged/deteriorated so as to impair safety (621.2 [iii])	/
4.6	Presence of linked main switch [as required by 537.1.4]	/
4.7	Operation of main switch [functional check] [612.13.2]	/
4.8	Manual operation of circuit-breakers and RCDs to prove disconnection [612.13.2]	/
4.9	Correct identification of circuit details and protective devices [514.8.1; 514.9.1]	/
4.10	Presence of RCD quarterly test notice at or near consumer unit / distribution board [514.12.2]	/
4.11	Presence of non-standard (mixed) cable colour warning notice at or near consumer unit/distribution board [514.14]	/
4.12	Presence of alternative supply warning notice at or near consumer unit / distribution board [514.15]	N/A
4.13	Presence of other required labelling [Please specify] [Section 514]	-
4.14	Examination of protective device[s] and base[s]; correct type and rating [no signs of unacceptable thermal damage, arcing and overheating] [421.1.3]	/
4.15	Single-pole switching or protective devices in line conductors only [132.14.1; 530.3.2]	/
4.16	Protection against mechanical damage where cables enter consumer unit / distribution board [522.8.1; 522.8.11]	/
4.17	Protection against electromagnetic effects where cables enter consumer unit/distribution board/enclosures [521.5.1]	/
4.18	RCD[s] provided for fault protection – includes RCBO[s] [411.4.9; 411.5.2; 531.2]	/
4.19	RCD(s) provided for additional protection-includes RCBOs [411.3.3 ; 415.1]	/
4.20	Confirmation of indication that SPD is functional [534.2.8]	N/A
4.21	Confirmation that ALL conductor connections,including busbars,are correctly located in terminals secure/tight [526.1]	/
4.22	Adequate arrangements where a generating set operates as a switched alternative to the public supply [551.6]	N/A



# Condition Report Inspection Schedule

## for Domestic and Similar Premises with up to 100A Supply

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### Schedule of Inspections

#### Outcomes

Acceptable condition:	Unacceptable condition: State C1 or C2	Improvement recommended: C3	Further investigation FI	Not verified: NV	Limitation: Lim	Not applicable: N/A
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(In the Outcome column use the codes above. Provide additional comment where appropriate. C1/C2/C3 and FI coded items to be recorded in section K of the condition report)

**Please Select  
Outcome / Investigation  
As Required**

Item	Description	Outcome
4.23	Adequate arrangements where a generating set operates in parallel with the public supply [551.7]	N/A
<b>5.0 FINAL CIRCUITS</b>		
5.1	Identification of conductors [514.3.1]	C3
5.2	Cables correctly supported throughout their run [522.8.5]	/
5.3	Condition of insulation of live parts [416.1]	/
5.4	Non-sheathed cables protected by enclosure in conduit, ducting or trunking [521.10.1] To include the integrity of conduit and trunking systems [metallic and plastic]	/
5.5	Adequacy of cables for current-carrying capacity with regard for the type and nature of the installation [Section 523]	/
5.6	Co-ordination between conductors and overload protective devices [433.1; 533.2.1]	/
5.7	Adequacy of protective devices; type and rated current for fault protection [411.3]	/
5.8	Presence and adequacy of circuit protective conductors [411.3.1.1; 543.1]	/
5.9	Wiring system(s) appropriate for the type and nature of the installation and external influences [Section 522.5]	/
5.10	Concealed cables installed in prescribed zones (see extent and limitations) [522.6.202]	/
5.11	Cables concealed under floors, above ceilings or in walls / partitions, adequately protected against damage see section D. Extent and limitations] [522.6.204]	/
5.12	Provision of additional protection by RCD not exceeding 30mA	/
5.12.1	for all sockets-outlets of rating 20A or less, unless exempt [411.3.3]	/
5.12.2	for supply to mobile equipment not exceeding 32A rating for use outdoors [411.3.3]	/
5.12.3	for cables concealed in walls / partitions at a depth of less than 50mm [522.6.202; 522.6.203]	C3
5.12.4	for cables concealed in walls / partitions containing metal parts regardless of depth [522.6.203]	C3
5.13	Provision of fire barriers, sealing arrangements and protection against thermal effects [Section 527]	/
5.14	Cables segregated / separated from Band I cables [528.1]	/
5.15	Cables segregated / separated from communications cabling [528.2]	/
5.16	Cables segregated/separated from non-electrical services [528.3]	/
5.17	Termination of cables at enclosures – indicate extent of sampling in Section D of the report [Section 526]	
5.17.1	Connections soundly made and under no undue strain [526.6]	/
5.17.2	No basic insulation of a conductor visible outside enclosure [526.8]	/
5.17.3	Connections of live conductors adequately enclosed [526.5]	/
5.17.4	Adequately connected at point of entry to enclosure [glands, bushes etc... ] [522.8.5]	/
5.18	Condition of accessories including socket-outlets, switches and joint boxes (621.2 [iii])	/
5.19	Suitability of accessories for external influences [512.2]	/
5.20	Adequacy of working space / accessibility to equipment [132.12; 513.1]	/
5.21	Single-pole switching or protective device in line conductors only [132.14.1; 530.3.2]	/

Inspector's Name *P. Walker*

Date *30/10/18*

Signature

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### Schedule of Inspections

#### Outcomes

Acceptable condition:	Unacceptable condition: State C1 or C2	Improvement recommended: C3	Further investigation FI	Not verified: NV	Limitation: Lim	Not applicable: N/A
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(In the Outcome column use the codes above. Provide additional comment where appropriate. C1/C2/C3 and FI coded items to be recorded in section K of the condition report)

Item No.	Description	Outcome
<b>6.0</b>	<b>LOCATION(S) CONTAINING A BATH OR SHOWER</b>	
<b>6.1</b>	Additional protection for all low voltage (LV) circuits by RCD not exceeding 30 mA [701.411.3.3]	/
<b>6.2</b>	Where used as a protective measure, requirements for SELV or PELV met [701.414.4.5]	/
<b>6.3</b>	Shaver sockets comply with BS EN 61558-2-5 formerly BS 3535 [701.512.3]	N/A
<b>6.4</b>	Presence of supplementary bonding conductors, unless not required by BS 7671:2008 (701.415.2)	N/A
<b>6.5</b>	Low voltage (e.g. 230 volt) socket-outlets sited at least 3m from zone 1 [701.512.3]	N/A
<b>6.6</b>	Suitability of equipment for external influences for installed location in terms of IP rating [701.512.2]	N/A
<b>6.7</b>	Suitability of accessories and control gear etc for a particular zone [701.512.3]	✓
<b>6.8</b>	Suitability of current-using equipment for particular position within the location [701.55]	✓
<b>7.0</b>	<b>OTHER SPECIAL INSTALLATIONS OR LOCATIONS</b>	
<b>7.1</b>	List all other special installations or locations present, if any. [Record the results of particular inspections applied separately]	

Please Select  
Outcome / Investigation  
As Required

### Schedule of Tests

Results to be recorded on Schedule of Test Results

- External earth loop impedance, Ze
- Installation earth electrode
- Prospective fault current Ifp
- Continuity of Earth Conductors
- Continuity of Circuit Protective Conductors
- Continuity of ring final conductors
- Continuity of Protective Bonding Conductors
- Volt drop verified

- Insulation Resistance between Live conductors
- Insulation Resistance between Live conductors & Earth
- Polarity (prior to energisation)
- Polarity (after energisation) including phase sequence
- Earth fault loop impedance
- RCDs / RCBOs including discrimination
- Functional testing of devices

(insert ✓ or N/A)

Signature

Inspector's Name P. Waller

Date 31/01/10

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# NAPIT Electrical Test Schedule

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Zoom In

Client number: J-6501-2

Installation address 22 St. Andrews Rd. Bromsgrove B60 3AS.

**Complete in every case**

Location of distribution board	Hallway
Distribution board designation	DB1
Number of ways	10
Supply polarity confirmed	✓

Postcode SA2 0B3

**Test instrument serial number(s)**

1424501  
11  
11  
11  
11

RCD

**Complete only if the distribution board is not connected directly to the origin of the installation**

Characteristics at this distribution board			
Associated RCD (if any): BS (EN)	N/A	mA	ms
No. of phases	N/A	V	Z <sub>ab</sub> N/A
Nominal Voltage	N/A	A	At I <sub>Δn</sub> N/A
Type BS(EN)	N/A	A	No. of Poles
Rating N/A	A	I <sub>p</sub> N/A	RCD(if any)
Phase sequence confirmed	✓	✓	

## CIRCUIT DETAILS

Circuit No. and line No.	Overcurrent protective devices			Circuit impedance $\Omega$	Insulation resistance (Record lower reading)	RCD testing
	Zs Tables / Info Ref.	BS EN Number	Type No.	Rating (A)		
1 Main switch	–	–	–	–	Ring (final circuits only (measured end to end))	All circuits to be completed using R <sub>1</sub> R <sub>2</sub> or R <sub>2</sub> no both checked ✓
2 Fire alarm	0 c	1.5	1.0	0.4	60898	B
3 Lighting recall & ETC	A c	2	1.5	1.0	60898	D
4 ETC E/F	A c	1.5	1.0	0.4	61009	B
5 LCD	A c	3	1.5	1.0	60898	B
6 TV	A c	2	1.5	1.0	61008	–
7 Front sockets	A c	26	1.5	1.5	60898	B
8 Rear sockets	A c	20	2.5	1.5	24	60898
9 Cooker 1	A c	10	6.0	2.5	0.4	60898
10 Cooker 2	A c	2	6.0	2.5	0.4	60898

Details of circuits and/or installed equipment vulnerable to damage when testing

✓

Wiring Types 1= PVC/PVC 2= Single Insulated in Conduit or Trunking 3= Mineral Insulated 4= SWA/XPLIE 5= FP200 6= Other

Tested by: Name (capital letters) Price Walker

Position Director

Date(s) 31/10/18

Signature