NAPIT *Electrical Installation* Condition Report

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

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A Details of the installation

Client: MODERN LIVING	Installation *(If different from client)*
Address: 6 OSBOURNE AVENUE NEWCASTLE UPON TYNE	Address: 45 QUEENS TERRACE NEWCASTLE UPON TYNE
Postcode: NE2 1JQ	Postcode:

B Reason for producing this report

This form to be used only for reporting on the condition of an existing installation.

LANDLORD REQUEST. EXISTING CERTIFICATE IS DUE TO EXPIRE

Date(s) on which the inspection and testing were carried out: 4/6/15 to 4/6/15

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: 20 years

Evidence of alterations or addition: ☐ Yes ✓ No ☐ Not apparent — If 'Yes', estimated ☐ years

Records of installation available: ☐ Yes ✓ No — Records held by

Date of last inspection: 29/6/10 — Electrical Installation Certificate No. or previous Inspection Report No.: HPIR116790103

D Extent and limitations of inspection and testing

Extent of electrical installation covered by this report:

ALL ACCESSIBLE SOCKETS FOUND WERE TESTED. APPROX 20% OF ACCESSORIES WERE REMOVED FOR INSPECTION. R_1+R_2 TESTS ONLY CARRIED OUT ON RING CIRCUITS. A FULL INSPECTION WAS CARRIED OUT AT THE CONSUMER UNIT.

Agreed limitations *(See Regulations 634.2)* Agreed with: CLIENT

Operational limitations including the reasons (see page no ☐ of ☐)

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)

GOOD CONDITION

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'* **(codeC1)** 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 FI)** 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 4/6/20 (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.

	Inspected and tested by	Authorised for issue by
Company: SDM EARTH LTD		
Membership No.: 11679	Name: DAVID MULLEN	DAVID MULLEN
Address: 39 BROOMHILL GARDENS HARTLEPOOL	Signature: D Mullen	D Mullen
Postcode: TS26 0SP	Position: MANAGING DIRECTOR	MANAGING DIRECTOR
	Date: 4/6/15	4/6/15

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.

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I 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: (1) by enquiry, (2) by enquiry or by measurement)*

Nominal voltage, U/U_0 (1) 230 v Nominal frequency, f (1) 50 Hz Confirmation of supply polarity ✓

Prospective fault current, I_{pf} (2) 2·2 kA External loop impedance, Z_e (2) 0·12 Ω

Supply Protective Device BS(EN) 1361 Type 2 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 Electrode resistance to earth Ω

Main Protective Conductors	Material	Csa (mm²)	**Verified (connection / continuity)..**				
Main Earthing Conductor	COPPER	16	✓	To water installation pipes	✓	To structural steel	
Protective Bonding Conductor	COPPER	10	✓	To gas installation pipes	✓	To lightning protection	
Main Supply Conductor(s)	COPPER	16	✓	To oil installation pipes		Other	

Main Switch / Switch-Fuse/ Circuit Breaker / RCD

Location UNDER STAIRS BS (EN) 61008 No. of Poles 2

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

If RCD main switch: Rated residual operating current $I_{\Delta n}$ = 30 mA Rated time delay ms (at $I_{\Delta n}$)

Measured operating time at $I_{\Delta n}$ = 33 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

One of the above codes, as appropriate, has been allocated to each of the observations made above and/or any attached observation sheets to indicate to the person(s) responsible for the installation the degree of urgency for remedial action.

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	

NAPIT *Electrical Installation Continuation Observation Sheet*

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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

Distribution board Ref No.

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

One of the above codes, as appropriate, has been allocated to each of the observations made above and/or any attached observation sheets to indicate to the person(s) responsible for the installation the degree of urgency for remedial action.

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	

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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A 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*

(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
1.0	**DISTRIBUTOR'S / SUPPLY INTAKE EQUIPMENT**	
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)	NA
2.0	**Presence of adequate arrangements for – other sources such as microgenerators [551.6; 551.7]**	NA
3.0	**EARTHING / BONDING ARRANGEMENTS** (411 3; Chap 54)	
3.1	Presence and condition of distributor's earthing arrangement [542.1.2.1; 542.1.2.2]	
3.2	Presence and condition of earth electrode connection where applicable [542.1.2.3]	NA
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]	
3.7	Condition and accessibility of main protective bonding conductor connections [543.3.2; 544.1.2]	
3.8	Accessibility and condition of all other protective bonding connections [543.3.2]	
4.0	**CONSUMERUNIT(S) / DISTRIBUTION BOARD(S)**	
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]	NA
4.12	Presence of alternative supply warning notice at or near consumer unit / distribution board [514.15]	NA
4.13	Presence of other required labelling [Please specify] [Section 514]	NA
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/en-closures [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 s functional [534.2.8]	✓
4.21	Confirmation that ALL conductor connections,including busbars,are correctly located in terminals secure/tight [526.1]	✓
4.22	Adequate arrangments where a generator set operates as a switched alternative to the public supply [551.6]	NA

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

(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
4.23	Adequate arrangments where a generator set operates in parallel with the public supply (551.7)	NA
5.0	FINAL CIRCUITS	
5.1	Identification of conductors [514.3.1]	✓
5.2	Cables correctly supported throughout their run [522.8.5]	LIM
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]	LIM
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]]	LIM
5.12	Provision of additional protection by RCD not exceeding 30mA	
5.12.1	for all socket-outlets of rating 20 A unless exempt [Regulation 411.3.3]	✓
5.12.2	used to supply mobile equipment not exceeding 32 A 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]	✓
5.12.4	for cables concealed in walls / partitions containing metal parts regardless of depth [522.6.203]	✓
5.13	Provision of fire barriers, sealing arrangements and protection against thermal effects Band [Section 527]	✓
5.14	cables segregated / separated from Band I cables 528.1 [ ]	NA
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 DAVID MULLEN

Date 4/6/15

Signature D Mullen

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

(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
6.0	**LOCATION(S) CONTAINING A BATH OR SHOWER**	
6.1	Additional protection for all low voltage [LV] circuits by RCD(s) not exceeding 30 mA [701.411.3.3]	✓
6.2	Where used as a protective measure, requirements for SELV or PEV met [701.414.4.5]	✓
6.3	Shaver sockets comply with BS EN 61558-2-5 formerly BS 3535 [701.512.3]	NA
6.4	Presence of supplementary bonding conductors, unless not required by BS 7671:2008 (701.415.2)	✓
6.5	Low voltage (e.g. 230 volt) socket-outlets sited at least 3 m from zone 1 [701.512.3]	✓
6.6	Suitability of equipment for external influences for installed location in terms of IP rating [701.512.2]	✓
6.7	Suitability of accessories and control gear etc for a particular zone [701.512.3]	✓
6.8	Suitability of current-using equipment for particular position within the location [701.55]	✓
7.0	**OTHER SPECIAL INSTALLATIONSOR LOCATIONS**	
7.1	List all other special installations or locations present, if any. [Record the results of particular inspections applied separately]	

Schedule of Tests

Results to be recorded on Schedule of Test Results

- ✓ External earth loop impedance, Ze
- NA Installation earth electrode
- ✓ Prospective fault current Ipf
- ✓ 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*)

Inspector's Name DAVID MULLEN
Date 4/6/15

Signature D Mullen

NAPIT Electrical Test Schedule

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

EICR 11679004 04

Client MODERN LIVING | Installation address 45 QUEENS TERRACE, NEWCASTLE UPON TYNE | Postcode

Complete in every case

Location of distribution board: UNDER STAIRS
Distribution board designation: LIGHTING + POWER
Number of ways: 16

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

Supply to distribution board is from: N/A
Overcurrent protective device for the distribution circuit: No. of phases: N/A | Nominal Voltage: N/A V
Type BS(EN): N/A | Rating: N/A A
Supply polarity confirmed: | Phase sequence confirmed:

Characteristics at this distribution board

Z_{db} N/A Ω | Operating times of: At $I_{\Delta n}$ N/A ms
I_{pf} N/A kA | associated RCD(if any): at 5 $I_{\Delta n}$ N/A ms
Associated RCD (if any): BS (EN) N/A
RCD No of Poles: N/A | $I_{\Delta n}$ N/A mA

Test instrument serial number(s)

Earth fault loop imped.: 0810083197
Insulation resistance: 0810083197
Continuity: 0810083197
RCD: 0810083197

CIRCUIT DETAILS

Circuit No. and line No.	Circuit designation	Type of wiring	Ref. method	No. of points served	Circuit conductors csa: Live (mm²)	CPC (mm²)	Maximum disconnection time (BS:7671) (S)	Overcurrent protective devices: BS EN Number	Type No.	Rating (A)	Breaking capacity (kA)	RCD operating current $I_{\Delta n}$ (mA)	BS7671 Max. permitted value Z_s Other 60 Ω
1	1st FLOOR SHOWER	1	A		10	4	.4	60898	C	40	10	30	0.45
2	2nd FLOOR SHOWER	1	A		10	4	.4	60898	C	40	10	30	0.45
3	KITCHEN SOCKETS	1	A		2.5	1.5	.4	60898	C	32	10	30	0.57
4	GROUND FLOOR SOCKETS	1	A		2.5	1.5	.4	60898	C	32	10	30	0.57
5	1st+2nd FLOOR SOCKETS	1	A		2.5	1.5	.4	60898	C	32	10	30	0.57
6	GROUND FLOOR LIGHTS	1	A		1.5	1.0	.4	60898	C	6	10	30	3.06
7	1st+2nd FLOOR SOCKETS	1	A		1.5	1.0	.4	60898	C	10	10	30	1.84
8	SMOKE ALARMS	1	A		1.5	1.0	.4	60898	C	6	10	30	3.06
9	ALARM	1	A		1.5	1.0	.4	60898	C	6	10	30	3.06
10	TV BOOSTER	1	A		1.5	1.0	.4	60898	C	6	10	30	3.06
11	SPARE												
12	SPARE												

TEST RESULTS

Circuit No. and line No.	Circuit impedence Ω: Ring final circuits only (measured end to end) r_1	r_n	r_2	Figure 8 check (✓)	All circuits to be completed using R1 R2, or R2, not both: R_1+R_2	R_2	Insulation resistance (Record lower reading): Live / Live (MΩ)	Live / Earth (MΩ)	Polarity (✓)	Maximum measured Z_s (Ω)	RCD testing: at $I_{\Delta n}$ ms	at 5 $I_{\Delta n}$ ms	Test Button operation (✓)
1					0.30		>100	>100	✓	0.38	33.2	14	✓
2							>100	>100	✓	0.47	33.2	14	✓
3	0.45	0.46	0.61	✓			>100	>100	✓	0.31	33.2	14	✓
4	0.47	0.46	0.66	✓			>100	>100	✓	0.39	33.2	14	✓
5	0.70	0.70	0.91	✓			>100	>100	✓	0.66	33.2	14	✓
6							>100	>100	✓	1.09	33.2	14	✓
7							>100	>100	✓	1.69	33.2	14	✓
8							>100	>100	✓	1.72	33.2	14	✓
9							>100	>100	✓	0.50	33.2	14	✓
10							>100	>100	✓	0.53	33.2	14	✓
11													
12													

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

See attached sheets page(s) of

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

Tested by: Name (capital letters) DAVID MULLEN | Signature D Mullen

Position MANAGING DIRECTOR | Date(s) 4/6/15