NAPIT *Electrical Installation Condition Report*

for Domestic and Similar Premises with up to 100 A Supply

NA/EICR 004597

Requirements for Electrical Installations – BS 7671:2018 (IET Wiring Regulations 18th Edition)

A Details of the Installation

Client S. VASILLI	Installation (If different from client)
Address 14 HALL PARK HESLINGTON	Address 17 LAWRENCE STREET YORK
Postcode YO10 5DT	Postcode YO1 3BP.

B Reason for producing this report

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

STUDENT ACCOMIDATION

Date(s) on which the inspection and testing were carried out 3 NOV to

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

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

Estimated age of the wiring system 30 years

Evidence of alterations or additions ✓ Yes No Not apparent If 'Yes', estimated 5 years

Records of installation available(Regulation 651.1) ✓ Yes No Records held by S. VASILLI

Date of last inspection 10/7/15 Electrical Installation Certificate No. or previous Inspection Report No. 88552.

D Extent of imitations of inspection and testing

No IR TESTING due to electronic equipment

Agreed limitations and Operational Limitations (See Regulations 653.2)

No moving furniture or lifting carpets

Agreed with (if required) S. VASILLI

Operational limitations including the reasons (see page no of (If applicable)

The inspection and testing detailed within this report and accompanying schedule has been carried out in accordance with BS 7671:2018. It should be noted that cables concealed within the trunking 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 electrical safety)

Good

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 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 / (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 P.D.CLARK ELEC LTD			
Membership No. 41236	Name	P.CLARK	
Address 87 BRAMLEY GARTH	Signature		
	Position	Seated.	
Postcode YO31 0PQ	Date	3 NOV 20	

H Schedules

schedule(s) of inspection and 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

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

Number and Type of Live Conductors AC ✓ DC No. of phases 1 No. of wires 2 Confirmation of supply polarity ✓

Nature of Supply Parameters *(Note: (1) by enquiry, (2) by enquiry or by measurement)* Nominal voltage, U/U_0 (1) 242 V Nominal frequency, f (1) 50 Hz

Prospective fault current, I_{pf} (2) 1.52 kA External loop Impedance, Z_e (2) .15 Ω

Supply Protective Device BS (EN) 1361 Type II Nominal current rating 40M A

Other Sources of Supply (as detailed on attached schedule) —

J Particulars of installation referred to in this certificate

Means of Earthing Distributor's facility ✓ Installation earth electrode —

Details of installation earth electrode *(where applicable)* Type (e.g. rod(s), tape etc) — Maximum Demand (load) — KVA/Amps

Location — Electrode resistance to earth — Ω

Main Protective Conductors	Material	csa	✓ or Ohm	(Connection/continuity	✓ or Ohm		✓ or Ohm
Earthing conductor	CU	16	✓	To water installation pipes	✓	To structural steel	
Main protective bonding conductor *(to extraneous-conductive-parts)*	CU	10	✓	To gas installation pipes	✓	To lightning protection	
Main supply conductor				To oil installation pipes		Other	

Main Switch

Location BOARD BS(EN) 60947 No. of poles 2 Current rating 100

Fuse/device rating or setting 100 A Voltage rating 240 V

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

Measured operating trip time 21 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 without delay.**

Item No.	Observations	Code
1	PLASTIC CONSUMER UNIT	C3

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.**	1
FI **Further investigation required without delay.**	

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Schedule of Inspections - Outcomes

Acceptable condition:	Unacceptable condition: State	Improvement recommended:	Further investigation:	Not verified:	Limitation:	Not applicable:
✓	C1 or C2	C3	FI	NV	LIM	NA

(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 (Where inadequacies in intake equipment are encountered, it is recommended that the person ordering the report informs the appropriate authority).	Outcome
1.0	**EXTERNAL CONDITION OF INTAKE EQUIPMENT (VISUAL INSPECTION ONLY):**	
1.1	Service cable	✓
1.2	Service head	✓
1.3	Earthing arrangement	✓
1.4	Meter tails	✓
1.5	Metering equipment	✓
1.6	Isolator (where present)	✓
2.0	**Presence of adequate arrangements for other sources such as microgenerators (551.6; 551.7)**	✓
3.0	**EARTHING / BONDING ARRANGEMENTS (411.3; CHAP 54)**	
3.1	Presence and condition of distributor's earthing arrangements (542.1.2.1: 542.1.2.2)	✓
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 arrangement (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 (543.3.1:544.3.2)	✓
3.8	Accessibility and condition of other protective bonding connections (543.3.1: 543.3.2)	✓
4.0	**CONSUMER UNIT(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 (651.2)	✓
4.6	Presence of main linked switch (as required by 462.1.201)	✓
4.7	Operation of main switch(es) (functional check) (643.10)	✓
4.8	Manual operation of circuit-breakers and RCDs to prove disconnection (643.10)	✓
4.9	Correct identification of circuit details and protective devices (514.8.1; 514.9.1)	✓
4.10	Presence of RCD six-monthly 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)	✓
4.13	Presence of other required labelling (please specify) (Section 514)	✓
4.14	Compatibility of protective devices, bases and other components; correct type and rating, (No signs of unacceptable thermal damage, arcing or overheating) (411.3.2; 4.11.4; 4.11.5; 4.11.6; Section 432,433)	✓
4.15	Single-pole switching or protective devices in line conductor only (132.14.1; 530.3.3)	✓
4.16	Protection against mechanical damage where cables enter consumer unit/distribution board (132.14.1; 522.8.1; 522.8.5; 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) (411.4.204; 411.5.2; 531.2)	✓
4.19	RCD(s) provided for additional protection/requirements - includes RCBO(s) (411.3.3; 415.1)	✓
4.20	Confirmation of indication that SPD is functional (651.4)	NA
4.21	Confirmation that ALL conductor connections, including connections to busbars, are correctly located in terminals and are tight and secure (526.1)	✓
4.22	Adequate arrangements where a generating set operates as a switched alternative to the public supply (551.6)	✓
4.23	Adequate arrangements where a generating set operates in parallel with the public supply (551.7)	✓
5.0	**FINAL CIRCUITS**	
5.1	Identification of conductors (514.3.1)	✓
5.2	Cables correctly supported throughout their run (521.10.202; 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 in 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 installation (Section 523)	✓

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Schedule of Inspections - Outcomes

Acceptable condition:	Unacceptable condition: State	Improvement recommended:	Further investigation:	Not verified:	Limitation:	Not applicable:
✓	C1 or C2	C3	FI	NV	LIM	NA

(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
5.0	**FINAL CIRCUITS CONT.**	
5.6	Coordination 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: Section 543)	✓
5.9	Wiring system(s) appropriate for the type and nature of the installation and external influences (Section 522)	✓
5.10	Concealed cables installed in prescribed zones *(see Section D. 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)	NV
5.12	**PROVISION OF ADDITIONAL REQUIREMENTS FOR RCD NOT EXCEEDING 30 mA:**	
5.12.1	For all socket-outlets of rating 32 A or less, unless an exception is permitted (411.3.3)	✓
5.12.2	For the supply of mobile equipment not exceeding 32 A rating for use outdoors (411.3.3)	✓
5.12.3	For cables concealed in walls at a depth of less than 50 mm (522.6.202; 522.6.203)	✓
5.12.4	For cables concealed in walls/partitions containing metal parts regardless of depth (522.6.203)	✓
5.12.5	Final circuits supplying luminaires within domestic (household) premises (411.3.4)	✓
5.13	Provision of fire barriers, sealing arrangements and protection against thermal effects (Section 527)	✓
5.14	Band II cables segregated/separated from Band I cables (528.1)	✓
5.15	Cables segregated/separated from communications cabling (528.2)	NV
5.16	Cables segregated/separated from non-electrical services(528.3)	NV
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 (651.2 (v))	✓
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 devices in line conductors only (132.14; 530.3.3)	✓
6.0	**LOCATION(S) CONTAINING A BATH OR SHOWER**	
6.1	Additional protection for all low voltage (LV) circuits by RCD not exceeding 30 mA (701.411.3.3)	✓
6.2	Where used as a protective measure, requirements for SELV or PELV 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 7671:2018 (701.415.2)	✓
6.5	Low voltage (e.g. 230 volt) socket-outlets sited at least 3 m from zone 1 (701.512.3)	NA
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 controlgear 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 PART 7 SPECIAL INSTALLATIONS OR LOCATIONS**	
7.1	List all other special installations or locations present, if any. (Record separately the results of particular inspections applied.)	
8.0	**SCHEDULE OF TESTS RESULTS TO BE RECORDED ON SCHEDULE OF TEST RESULT**	

8.1	External earth loop impedance, Z_e	✓	8.9	Insulation Resistance between Live conductors	LIM
8.2	Installation earth electrode R_A	—	8.10	Insulation Resistance between Live conductors and Earth	LIM
8.3	Prospective fault current I_{pf}	✓	8.11	Polarity (prior to energisation)	✓
8.4	Continuity of Earthing conductors	✓	8.12	Polarity (after energisation) including phase sequence	✓
8.5	Continuity of circuit protective conductors	✓	8.13	Earth fault loop impedance	✓
8.6	Continuity of ring final circuit conductors	✓	8.14	RCD(s)/RCBO(s) including selectivity	✓
8.7	Continuity of protective bonding conductors	✓	8.15	Functional testing of RCD(s)	✓
8.8	Volt drop verified		8.16	Functional testing of AFDD(s)	NA

Inspector's Name		Signature	
Date			

NAPIT *Electrical Installation Test Sheet*

Requirements for Electrical Installations – BS 7671:2018 (IET Wiring Regulations 18th Edition)

NA/EICR 004596

CIRCUIT DETAILS

Circuit No. and line No.	(Continuation) DB Ref. No. / Circuit designation	Type of wiring	Ref. method	No. of points served	Circuit conductor csa L/N (mm²)	Circuit conductor csa 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)	BS 7671 Max. permitted value Zs Other 80 % Ω
1	FIRE ALARM	A	1	1	2.5	1	5	60898	B	20	6	—	
2	SOCKET	A	1	2	2.5	1	5	"	B	20	6	—	
3													
4													
5	COOKER	A	1	1	6	2.5	.4	60898	B	32	6	30	
6	SOCKET G/FLOOR	A	1	24	2.5	1.5	.4	"	B	32	6	30	
7													
8													
9	LIGHTS 1ST/2ND FLOOR			9	1	1		60898	B	6	6	30	
10													
11	SOCKETS 1ST FLOOR			14	2.5	1	.4	60898	B	32	6	30	
12	SOCKETS 2ND FLOOR			10	2.5	1	.4	"	B	32	6	30	
13	SHOWER			1	6	2.5	.4	"	B	40	6	30	
14	LIGHTS GROUND FLR			14	1	1	.4	"	B	6	6	30	
15													

TEST RESULTS

Circuit No. and line No.	Circuit impedence Ω: Ring final circuits only (measured end to end) r_1	r_n	r_2	Fig 8 check (✓)	All circuits to be completed using R_1 R_2, or R_2, not both: R_1+R_2	R_2	Insulation resistance (Record lower reading): Test Voltage V	L/L L/N (MΩ)	L/E N/E (MΩ)	Polarity (✓)	Max. measured Z_s (Ω)	RCD testing: Above 30mA $I_{\Delta n}$ ms	30mA or below 5 $I_{\Delta n}$ ms	Manual test button operation: RCD (✓)	AFDD (✓)
1	—	—	—	—	.5	—	LIMITED	—	—	—	.12			✓	—
2	—	—	—	—	.10	—	"	—	—	—	.16			—	—
3															
4															
5	—	—	—	—	.15	—	"	—	—	—	.31	19	9	✓	—
6	.61	.61	.70	✓	.33	—	"	—	—	—	.54	19	9	✓	—
7															
8															
9	—	—	—	—	.98	—	"	—	—	—	1.16	19	9	✓	—
10															
11	.70	.70	.80	✓	.36	—	"	—	—	—	.45	24	10	✓	—
12	.91	.81	.89	✓	.33	—	"	—	—	—	.44	29	10	✓	—
13	—	—	—	—	.30	—	"	—	—	—	.46	29	10	✓	—
14	—	—	—	—	.96	—	"	—	—	—	1.11	29	10	✓	—
15															

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

Date(s) dead testing To

Date(s) live testing To

See attached sheets page(s) Of

ALL CIRCUITS ARE VULNERABLE TO IR TESTING

Tested by: Name (capital letters) P. CLARK

Signature

Position TESTER

Date(s) 3 NOV 20

Wiring Types: A PVC/PVC B PVC cables in metallic conduit C PVC cables in non-metallic conduit D PVC cables in metallic trunking
E PVC cables in non-metallic trunking F PVC/SWA cables G SWA/XPLE cables H Mineral insulated O Other