

DOMESTIC ELECTRICAL INSTALLATION CONDITION REPORT

Small installations up to 100 A single phase supply

Issued in accordance with BS 7671: 2018 - Requirements for Electrical Installations

PART 1 : DETAILS OF THE CONTRACTOR, CLIENT AND INSTALLATION

DETAILS OF THE CONTRACTOR	DETAILS OF THE CLIENT	DETAILS OF THE INSTALLATION
Registration No: <u>N/A</u> Branch No: <u>N/A</u>	Contractor Reference Number (CRN): <u>N/A</u>	Occupier: <u>Tenant</u>
Trading Title: <u>Electrical Solutions GB</u>	Name: <u>Nupad</u>	Address: <u>11b Press Road, Uxbridge</u>
Address: <u>83 Tibbs Hill Road, Abbots Langley</u>	Address: <u>1 High Street, Cowley, Uxbridge</u>	
Postcode: <u>WD5 0LJ</u> Tel No: <u>N/A</u>	Postcode: <u>UB8 2EB</u> Tel No: <u>N/A</u>	Postcode: <u>UB8 1AT</u> Tel No: <u>N/A</u>

PART 2 : PURPOSE OF THE REPORT

Purpose for which this report is required: N/A (see additional page No. N/A)

Date(s) when inspection and testing was carried out: 03/06/2019 Records available: (No) Previous inspection report available: (No) Previous report date: ()

PART 3 : SUMMARY OF THE CONDITION OF THE INSTALLATION

General condition of the installation (in terms of electrical safety): Good condition (see additional page No. N/A)

Estimated age of electrical installation: (35) years Evidence of additions or alterations: (Yes) Overall assessment of the installation is: **Satisfactory**

PART 4 : DECLARATION

INSPECTION AND TESTING

I, being the person responsible for the inspection and testing of the electrical installation, particulars of which are described in PART 7, having exercised reasonable skill and care when carrying out the inspection and testing of the existing installation, hereby CERTIFY that the information in this report, including the observations (page 2) and the attached schedules, provides an accurate assessment of the condition of the electrical installation taking into account the stated extent of the installation and the limitations on the inspection and testing.

Name (capitals): andrew lomas Signature:  Date: 03/06/2019

REVIEWED BY QUALIFIED SUPERVISOR

Name (capitals): andrew lomas Signature:  Date: 03/06/2019

*An unsatisfactory assessment indicates that dangerous (CODE C1) and/or potentially dangerous (CODE C2) conditions have been identified in PART 6, or that Further Investigation (CODE FI) without delay is required.

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PART 5 : NEXT INSPECTION

I/We (as indicated on page 1) recommend, subject to the necessary remedial work being taken, this installation should be further inspected and tested after an interval of not more than 5 years*
 Give reason for recommendation: N/A (see additional page No. N/A)

PART 6 : OBSERVATIONS AND RECOMMENDATIONS FOR ACTIONS TO BE TAKEN

CODES: *One of the following Codes, as appropriate, has been allocated to each of the observations made below to indicate to the person(s) responsible for the electrical 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'
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Referring to the Schedule of Items Inspected (see PART 10), the attached Schedule of Circuit Details and Test Results (see PART 12), and subject to any agreed limitations listed in PART 7:

There are no items adversely affecting electrical safety , OR The following observations and recommendations for action are made:

Item No	Observation(s)	Code	Location Reference

Additional pages? (N/A) State page numbers: (N/A)
 Immediate action required for items: (N/A) Improvement recommended for items: (N/A)
 Urgent remedial action required for items: (N/A) Further investigation required for items: (N/A)

**The proposed date for the next inspection should take into consideration any legislative or licensing requirements and the frequency and quality of maintenance that the installation can reasonably be expected to receive during its intended life. The period should be agreed between relevant parties.*

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PART 7 : DETAILS AND LIMITATIONS OF THE INSPECTION AND TESTING

The inspection and testing has been carried out in accordance with BS 7671: 2018, 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 the Inspector prior to inspection.

Details of the installation covered by this report:

Fixed wiring within property

(see additional page No. N/A)

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

20% Dismantle
80% Visual

(see additional page No. N/A)

Agreed with (print name): N/A

Extent of sampling: (inspection only) N/A

(see additional page No. N/A)

Operational limitations including the reasons: N/A

(see additional page No. N/A)

PART 8 : SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

System type and earthing arrangements

TN-C-S: TN-S: TT:

Other (state): N/A

Supply protective device

(BS (EN) 1361 Fuse HBC)

Type: (2) Rated current: (100) A

Number and type of live conductors

AC 1-phase, 2-wire:

Other (state): (N/A)

Confirmation of supply polarity:

Other sources of supply: (as detailed on attached schedule) Page No: (N/A)

Nature of supply parameters

Nominal line voltage to Earth, U_0 : (230) V ⁽¹⁾ By enquiry, measurement, or by calculation
 Nominal frequency, f : (50) Hz
 Prospective fault current, $I_{pf}^{(1)*}$: (8.0) kA
 External loop impedance, $Z_e^{(1)*}$: (0.08) Ω

PART 9 : PARTICULARS OF INSTALLATION REFERRED TO IN THIS CERTIFICATE

Means of Earthing	Main protective conductors	Main protective bonding connections	Main switch / Switch-fuse / Circuit-breaker / RCD
Distributor's facility: <input checked="" type="checkbox"/>	Earthing conductor:	Water installation pipes: <input checked="" type="checkbox"/>	Type: (BS (EN) <u>BS EN 60947-3</u>)
Installation earth electrode: <input type="checkbox"/>	(material <u>Copper</u> csa <u>16</u> mm ²)	Gas installation pipes: <input checked="" type="checkbox"/>	Location: <u>(N/A)</u>
Where an earth electrode is used insert	Connection / continuity verified: <input checked="" type="checkbox"/>	Structural steel: <input type="checkbox"/>	No. of poles: <u>(2)</u> Rating / setting of device: <u>(100)</u> A
Type - rod(s), tape, etc: <u>(N/A)</u>	Main protective bonding conductors:	Oil installation pipes: <input type="checkbox"/>	Current rating: <u>(100)</u> A Voltage rating: <u>(240)</u> V
Location: <u>(N/A)</u>	(material <u>Copper</u> csa <u>10</u> mm ²)	Lightning protection: <input type="checkbox"/>	Where an RCD is used as the main switch
Electrode resistance to Earth: <u>(N/A)</u> Ω	Connection / continuity verified: <input checked="" type="checkbox"/>	Other (state): <u>N/A</u>	RCD rated residual operating current, $I_{\Delta n}$: <u>(N/A)</u> mA
			Measured operating time: <u>(N/A)</u> ms Rated time delay: <u>(N/A)</u> ms

*Where the installation is supplied by more than one source, the higher or highest values of prospective fault current, I_{pf} , and external earth fault loop impedance, Z_e , must be recorded.

All fields must be completed. Enter either, as appropriate: '✓' if Acceptable condition; 'N/A' if Not applicable; 'LIM' if a Limitation exists; or Code appropriately - CODE 'C1', 'C2', 'C3' or 'FI' (codes to be recorded in PART 6, with additional comments (where appropriate) on attached numbered sheets)

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PART 10 : SCHEDULE OF ITEMS INSPECTED

1. External condition of intake equipment (visual inspection only) (If inadequacies are identified with the intake equipment, it is recommended the person ordering the report informs the appropriate authority.)		4. Consumer unit(s) / Distribution board(s)		4.15 Protection against electromagnetic effects where cables enter metallic consumer unit / enclosure: (✓)	
1.1 Service cable:	(✓)	4.1 Adequacy of working space / accessibility to consumer unit / distribution board:	(✓)	4.16 RCDs provided for fault protection - includes RCBOs:	(✓)
1.2 Service head:	(✓)	4.2 Security of fixing:	(✓)	4.17 RCDs provided for additional protection - includes RCBOs:	(✓)
1.3 Earthing arrangement:	(✓)	4.3 Condition of enclosure(s) in terms of IP rating:	(✓)	4.18 Confirmation of indication that SPD is functional:	(✓)
1.4 Meter tails:		4.4 Condition of enclosure(s) in terms of fire rating:	(✓)	4.19 Adequacy of AFDD(s), where specified:	(N/A)
a) Cutout fuse to meter	(✓)	4.5 Enclosure not damaged / deteriorated so as to impair safety:	(✓)	4.20 Confirmation that conductor connections, including connections to busbars, are correctly located in terminals and are tight and secure:	(✓)
b) Meter to consumer unit	(✓)	4.6 Presence of linked main switch:	(✓)		
1.5 Metering equipment:	(✓)	4.7 Operation of main switch(es) (functional check):	(✓)	5. Distribution / final circuits	
1.6 Isolator (where present):	(✓)	4.8 Main switch capable of being secured in the OFF position:	(✓)	5.1 Identification of conductors:	(✓)
2. Presence of adequate arrangements for other sources		4.9 Operation of circuit-breakers and RCDs to prove disconnection (functional check):	(✓)	5.2 Cables correctly supported throughout:	(✓)
2.1 Adequate arrangements where a generating set operates as a switched alternative to the public supply:	(N/A)	4.10 Correct identification of circuits and protective devices:	(✓)	5.3 Condition of insulation of live parts:	(✓)
2.2 Adequate arrangements where generating set operates in parallel with the public supply:	(N/A)	4.11 Presence of appropriate circuit charts, warning and other notices:		5.4 Non-sheathed live conductors protected by enclosure in conduit, ducting or trunking (including confirmation of the integrity of conduit and trunking systems):	(✓)
2.3 Presence of alternative / additional supply warning notices:	(N/A)	a) Provision of circuit charts/schedules or equivalent forms of information	(✓)	5.5 Adequacy of cables for current-carrying capacity with regard to the type and nature of installation:	(✓)
3. Earthing and bonding arrangements		b) Warning notice of method of isolation where live parts not capable of being isolated by a single device	(✓)	5.6 Adequacy of protective devices; type and rated current for fault protection:	(✓)
3.1 Presence and condition of distributors earthing arrangement:	(✓)	c) Periodic inspection and testing notice	(✓)	5.7 Presence and adequacy of circuit protective conductors:	(✓)
3.2 Presence and condition of earth electrode connection, where appropriate:	(N/A)	d) Presence of RCD six-monthly notice, where required	(✓)	5.8 Co-ordination between conductors and overload protection devices:	(✓)
3.3 Confirmation of adequate earthing conductor size:	(✓)	e) Warning notice of non-standard (mixed) colours of conductors present	(✓)	5.9 Wiring system(s) appropriate for the type and nature of the installation and external influences:	(✓)
3.4 Accessibility and condition of earthing conductor at Main Earthing Terminal (MET):	(✓)	f) All other required labelling provided	(✓)	5.10 Cables adequately protected against mechanical damage and abrasion:	(✓)
3.5 Confirmation of adequate main protective bonding conductor sizes:	(✓)	4.12 Compatibility of protective device(s), base(s) and other components; correct type and rating (no signs of unacceptable thermal damage, arcing or overheating):	(✓)	5.11 Provision of additional protection by 30 mA RCD (see Note):	
3.6 Accessibility and condition of main protective bonding conductor connections:	(✓)	4.13 Single-pole switching or protective devices in the line conductors only:	(✓)	a) For all socket-outlets with a rated current not exceeding 32 A	(✓)
3.7 Accessibility and condition of other protective bonding connections:	(✓)	4.14 Protection against mechanical damage where cables enter consumer unit / distribution board:	(✓)	b) For mobile equipment not exceeding a rating of 32 A for use outdoors	(✓)
3.8 Provision of earthing and bonding labels at all appropriate locations:	(✓)			c) For cables concealed in walls / partitions at a depth of less than 50 mm	(✓)

All fields must be completed. Enter either, as appropriate: '✓' if Acceptable condition; 'N/A' if Not applicable; 'LIM' if a Limitation exists; or Code appropriately - CODE 'C1', 'C2', 'C3' or 'FI' (codes to be recorded in PART 6, with additional comments (where appropriate) on attached numbered sheets)

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d) For cables concealed in walls / partitions containing metal parts regardless of depth (✓)	b) Acceptable location (local / remote) (✓)	8.2 Where used as a protective measure, requirements for SELV or PELV are met: (✓)
e) For all AC final circuits supplying luminaires (✓)	c) Clearly identified by position and / or durable marking(s) (✓)	8.3 Shaver sockets comply with BS EN 61558-2-5 (formerly BS 3535): (✓)
<i>Note: Older installations designed prior to BS 7671: 2008 may not have been provided with RCDs for additional protection.</i>	6.3 For isolation only:	8.4 Presence of supplementary bonding conductors unless not required by BS 7671: 2018: (✓)
5.12 Provision of fire barriers, sealing arrangements and protection against thermal effects: (✓)	a) Warning label(s) posted in situations where live parts cannot be isolated by the operation of a single device ()	8.5 Low voltage (e.g. 230 volts) socket-outlets sited at least 3 m from Zone 1: (✓)
5.13 Band II cables segregated / separated from Band I cables: (✓)	7. Current-using equipment (permanently connected)	8.6 Suitability of equipment for external influences for installed location in terms of IP rating: (✓)
5.14 Cables segregated / separated from communications cabling: (✓)	7.1 Condition of equipment in terms of IP rating: ()	8.7 Suitability of equipment for installation in a particular zone: (✓)
5.15 Cables segregated / separated from non-electrical services: (✓)	7.2 Equipment does not constitute a fire hazard: ()	9. Other Part 7 special installations or locations
5.16 Termination of cables at enclosures (extent of sampling indicated in PART 7 of the report):	7.3 Enclosure not damaged / deteriorated so as to impair safety: (✓)	List of all other special installations or locations, if any, present:
a) Connections soundly made and under no undue strain (✓)	7.4 Suitability for the environment and external influences: (✓)	N/A ()
b) No basic insulation of a conductor visible outside enclosure (✓)	7.5 Security of fixing: (✓)	N/A ()
c) Connection of live conductors adequately enclosed (✓)	7.6 Cable entry holes in ceiling above luminaires, sized or sealed so as to restrict the spread of fire: (✓)	N/A ()
d) Adequately connected at point of entry to enclosure (✓)	List number and location of luminaires inspected on a separate page: Page No. (N/A)	N/A ()
5.17 Condition of accessories including socket-outlets, switches and joint boxes is satisfactory: (✓)	7.7 Recessed luminaires (downlighters):	N/A ()
6. Isolation and switching (isolation, switching off for mechanical maintenance and functional switching)	a) Correct type of lamps fitted (✓)	N/A ()
6.1 In general:	b) Installed to minimise build-up of heat (✓)	N/A ()
a) Presence and condition of appropriate devices (✓)	c) No signs of overheating to surrounding building fabric (✓)	<i>Indicate if the relevant requirements of Part 7 are satisfied and append results of inspection on a separate numbered page.</i>
b) Correct operation verified (✓)	d) No signs of overheating to conductors / terminations (✓)	SCHEDULE OF ITEMS INSPECTED BY
6.2 For isolation and switching for mechanical maintenance only:	8. Location(s) containing a bath or shower	Name (capitals): <u>andrew lomas</u>
a) Capable of being secured in the OFF position, where appropriate (✓)	8.1 Additional protection by RCD not exceeding 30 mA:	Signature:
	a) For low voltage circuits serving the location (✓)	Date: <u>03/06/2019</u>
	b) For low voltage circuits passing through Zone 1 and Zone 2 not serving the location (✓)	

PART 11: SCHEDULES AND ADDITIONAL PAGES

Schedule of Inspections	Schedule of Circuit Details and Test Results for the installation	Additional pages, including data sheets for additional sources	Special installations or locations (indicated in item 9. above)	Continuation sheets
Page No(s): (4 & 5)	Page No(s): (6)	Page No(s): (N/A)	Page No(s): (0)	Page No(s): (N/A)

The pages identified are an essential part of this report (see Regulation 653.2).

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PART 12 : SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

Circuits/equipment vulnerable to damage when testing: N/A

CODES For Type of wiring		(A) Thermoplastic insulated / sheathed cables	(B) Thermoplastic cables in metallic conduit	(C) Thermoplastic cables in non-metallic conduit	(D) Thermoplastic cables in metallic trunking	(E) Thermoplastic cables in non-metallic trunking	(F) Thermoplastic / SWA cables	(G) Thermosetting / SWA cables	(H) Mineral-insulated cables	(I) other - state	N/A																						
Circuit number	Circuit description <small>*Where this consumer unit is remote from the origin of the installation, record details of the circuit supplying this consumer unit on the first line.</small>	Type of wiring (see Codes)	Reference Method (BS 7671)	Number of points served	Circuit conductor csa			Protective device					RCD		Circuit impedances (Ω)			Insulation resistance			RCD operating time (ms)	Test buttons											
					Live (mm ²)	cpc (mm ²)	Max. disconnection time (BS 7671) (s)	BS (EN)	Type	Rating (A)	Short-circuit capacity (kA)	Operating current, I _{Δn} (mA)	Maximum permitted Z _s for installed protective device** (Ω)	Ring final circuits only (measured end to end)			All circuits (complete at least one column)			Polarity		Max. measured earth fault loop impedance, Z _s (Ω)	RCD	AFDD									
														(L) Line r ₁	(N) Neutral r _n	(C) cpc r ₂	(R ₁ +R ₂)	R _s	Live / Live (MΩ)						Live / Earth (MΩ)	Test voltage DC (V)							
1	Spare	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	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	N/A	N/A	N/A	N/A
1	Spare	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	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	N/A	N/A	N/A	N/A
1	Sockets up	A	100	4	2.5	1.5	0.4	61009 RCD/RCBO	B	20	6	30	2.19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20	250	✓	N/A	N/A	✓						
1	Sockets up	A	100	6	2.5	1.5	0.4	61009 RCD/RCBO	B	20	6	30	2.19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20	250	✓	N/A	N/A	✓						
1	Smoke alarms	A	100	3	1.5	1	0.4	61009 RCD/RCBO	B	6	6	30	7.28	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20	250		N/A	N/A	✓						
1	Spare	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	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	N/A	N/A	N/A	N/A
1	Hob	A	100	1	6	2.5	0.4	60898 MCB	B	32	6	30	1.37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20	250		N/A	N/A	✓						
1	Sockets down	A	100	12	2.5	1.5	0.4	60898 MCB	B	32	6	30	1.37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20	250		N/A	N/A	✓						
1	Lights down	A	100	9	1.5	1	0.4	60898 MCB	B	6	6	30	7.28	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20	250		N/A	N/A	✓						
1	Shower	A	100	1	10	6	0.4	60898 MCB	B	32	6	30	1.37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20	250		N/A	N/A	✓						
1	Lights 1st floor	A	100	6	1.5	1	0.4	60898 MCB	B	6	6	30	7.28	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20	250		N/A	N/A	✓						

 Location of consumer unit: Bedroom 1 Designation: DB001-- Prospective fault current at consumer unit (where applicable): (8.0) kA

TESTED BY

 Name (capitals): andrew lomas

 Position: electrician

 Signature: 

 Date: 03/06/2019
TEST INSTRUMENTS (enter serial number against each instrument used)

Multi-function: Fluke 1664	Continuity: N/A	Insulation resistance: N/A	Earth fault loop impedance: N/A	Earth electrode resistance: N/A	RCD: N/A
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