

ELECTRICAL INSTALLATION CONDITION REPORT FOR SMALL INSTALLATIONS NOT EXCEEDING 100 A

Contractor's Reference Number

CRN/ 1330175

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.

TYPE OF INSTALLATION *Tick appropriate box* Domestic dwelling Highway Installation Leisure Accommodation Vehicle Modular dwelling Transportable unit

DETAILS OF THE CLIENT

Client: Southampton City Council
Address: S Mavretania Road
Nursling
Postcode: SO15 0YS

PURPOSE OF THE REPORT

Purpose for which this report is required: Periodic Inspection

Date(s) on which inspection and testing were carried out: 26/4/2018

DETAILS OF THE INSTALLATION

Occupier: SCC
Address: Shirley Towers
Postcode:
Estimated age of the electrical installation: 30+ years Evidence of alterations or additions: NO if yes estimated age NO
Date of previous inspection: 28/8/15 Electrical Installation Certificate No or previous Periodic Inspection or Condition Report No: NLV
Records of installation available: NO Records held by: NLV

EXTENT OF THE INSTALLATION AND LIMITATIONS ON THE INSPECTION AND TESTING

Extent of the electrical installation covered by this report:

lift Motor Room supply

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

NONE

Agreed with: _____

Operational limitations including the reasons (see page No _____)

NONE

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.

SUMMARY OF THE CONDITION OF THE INSTALLATION

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

Good

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

Overall assessment of the installation: **SATISFACTORY / UNSATISFACTORY***

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

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)

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

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Original (To the person ordering the work)

OBSERVATIONS AND RECOMMENDATIONS FOR ACTIONS TO BE TAKEN

Referring to the attached schedules of inspection and test results, and subject to the limitations at page 1:

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

Item No Observation(s) include reference location as appropriate Code †

1

[A large diagonal line is drawn across the observation table, indicating no further observations.]

Additional pages? No Yes Specify page No(s)

† 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 F1 'Further investigation required without delay'.

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

Immediate remedial action required for items:

Urgent remedial action required for items:

Further investigation required without delay for items:

Improvement recommended for items:

[Handwritten numbers: 1111]

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, 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 of the installation and the limitations on the inspection and testing

I/We further declare that in my/our judgement, the overall assessment of the installation in terms of its suitability for continued use is **SATISFACTORY / UNSATISFACTORY*** Delete as appropriate

at the time the inspection was carried out, and that it should be further inspected as recommended within the time interval given below.

* 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:

Signature: *B. Cook*
Name: (CAPITALS) *B. Cook*
Position: *Electrician*
Date: *26/11/2018*

REPORT REVIEWED AND CONFIRMED BY:

Signature: *[Signature]*
Name: (CAPITALS) **P. A. Tarrant**
Date: **29 NOV 2018**
(Registered Qualified Supervisor for the Approved Contractor)

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 or months, as appropriate)

provided that any items 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 F1 (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.

Please see the 'Guidance for Recipients on the Classification codes' on the reverse of this page

ELECTRICAL INSTALLATION CONDITION REPORT FOR SMALL INSTALLATIONS NOT EXCEEDING 100 A

SUPPLY CHARACTERISTICS		Tick boxes and enter details, as appropriate		Nature of supply parameters		Notes (1) by enquiry (2) by enquiry or by measurement (3) where more than one supply, record the higher or highest values (4) by measurement		Characteristics of primary supply overcurrent protective device(s)		
System type(s)	Number and type of live conductors			Number of sources	Nominal voltage(s)	Nominal frequency, $f^{(1)}$			BS(EN)	Short-circuit capacity
TN-S <input checked="" type="checkbox"/>	1-phase (2-wire) <input checked="" type="checkbox"/>	1-phase (3-wire) <input type="checkbox"/>		1	$U^{(1)}$ 230 V	50 Hz			88	200 kA
TN-C-S <input type="checkbox"/>	3-phase (3-wire) <input type="checkbox"/>	3-phase (4-wire) <input checked="" type="checkbox"/>			$U^{(1)}$ 400 V		External earth fault loop impedance, $Z_e^{(3,4)}$ Ω		Type 2	Confirmation of supply polarity <input checked="" type="checkbox"/>
TT <input type="checkbox"/>	Other <input type="checkbox"/>	Please state					3-phase Prospective fault current, $I_{pf}^{(2,3)}$ 4.50 kA		Rated current 100 A	

PARTICULARS OF INSTALLATION AT THE ORIGIN				Tick boxes and enter details, as appropriate		Measured Z_e		Main Switch/Switch-Fuse/Circuit-Breaker/RCD	
Means of earthing		Details of installation earth electrode (where applicable)		Protective measure(s) for fault protection		Maximum demand (Load)		Type BS(EN)	Voltage rating
Distributor's facility <input checked="" type="checkbox"/>	Type (eg rod(s), tape etc) <input type="checkbox"/>	Location <input type="checkbox"/>		ADS		10 kVA/		5419	400 V
Installation earth electrode <input type="checkbox"/>	Electrode resistance, R_A Ω <input type="checkbox"/>	Method of measurement <input type="checkbox"/>				Delete as appropriate		No of poles 3	Rated current, I_n 100 A
Earthing conductor		Main protective bonding conductors and bonding of extraneous-conductive-parts				Water installation pipes <input type="checkbox"/>		Supply conductors material Copper	
Conductor material <input checked="" type="checkbox"/>	Conductor csa 65 mm ² <input checked="" type="checkbox"/>	Continuity/connection verified <input checked="" type="checkbox"/>		Conductor material <input type="checkbox"/>		Oil installation pipes <input type="checkbox"/>		Supply conductors csa 65 mm ²	
Conductor csa 65 mm ² <input checked="" type="checkbox"/>		Location (where not obvious) <input type="checkbox"/>		Conductor csa <input type="checkbox"/>		Gas installation pipes <input type="checkbox"/>		RCD operating current, $I_{\Delta n}$ <input type="checkbox"/> mA	
								RCD operating time (at $I_{\Delta n}$) <input type="checkbox"/> ms	
								Rated time delay <input type="checkbox"/> ms	

* applicable only where an RCD is used as a main circuit-breaker

VEHICLE DETAILS		Tick boxes and enter details as appropriate		Model		Registration (motorhome)		VIN	
Type	Touring <input type="checkbox"/>	Static <input type="checkbox"/>	Motorhome <input type="checkbox"/>	Year of manufacture					

PARTICULARS OF VEHICLE INSTALLATION OR TRANSPORTABLE UNITS				Earthing and protective bonding conductors				Tick boxes and enter details as appropriate							
Hook-up connection		System type TT		Means of earthing		Earthing conductor (for static vehicles or transportable units)		Conductor material		Conductor csa		mm ²		Connection/continuity verified	
<input type="checkbox"/>		<input type="checkbox"/>		System type TN-S <input type="checkbox"/> TN-C-S* <input type="checkbox"/>		* Connection to a TN-C-S system requires supervision (see regulation 717.411.4)		Chassis		Conductor material		Conductor csa		mm ² Connection/continuity verified	
Flexible supply cable		For direct connection		Installation earth electrode details		Measured earth-fault loop impedance, Z_e Ω		Water service		Conductor material		Conductor csa		mm ² Connection/continuity verified	
Length m csa mm ²		Type (eg rod(s), tape(s))		Method of measurement				Gas service		Conductor material		Conductor csa		mm ² Connection/continuity verified	
I_z A $(R_1 + R_2)_{cs}$ Ω		Electrode resistance, R_A Ω		Location											
Supply voltage(s) and maximum load/demand		Nominal voltage(s) U_0 U		Maximum permitted load		kVA/Amps									

TRANSPORTABLE UNIT DETAILS		Description	
Model name and year			

† All boxes must be completed. '✓' indicates that an inspection was carried out and that the result was satisfactory. 'N/A' indicates that an inspection was not applicable to the particular installation.

Original (To the person ordering the work)

ELECTRICAL INSTALLATION CONDITION REPORT FOR SMALL INSTALLATIONS NOT EXCEEDING 100 A

DETAILS OF NICEIC APPROVED CONTRACTOR

Trading title
Address

Southampton City Council
Housing Operations
5 Mauretania Road
Nursling Industrial Estate
Southampton SO16 0YS
NICEIC No. 200075000 Gas Safe No. 22613

Postcode:



Enrolment number
(Essential information)

Branch number
(if applicable)

Telephone number:

Email address:

SCHEDULE OF INSPECTIONS

Item	Description	Outcome*	Item	Description	Outcome*	Item	Description	Outcome*
1.0	Condition/adequacy of distributor's/supply intake equipment†		4.0	Consumer unit(s)		4.23	Confirmation that ALL conductor connections, including connections to busbars are correctly located in terminals and are tight and secure	✓
1.1	Service cable	✓	4.1	Adequacy of working space or access to consumer unit	✓	5.0	Distribution/final circuits	
1.2	Service head	✓	4.2	Security of fixing	✓	5.1	Identification of conductors	✓
1.3	Distributor's earthing arrangement	✓	4.3	Condition of enclosure(s) in terms of IP rating	✓	5.2	Cables correctly supported throughout their length	✓
1.4	Meter tails - Distributor/Consumer	✓	4.4	Condition of enclosure(s) in terms of fire rating	✓	5.3	Condition of insulation of live parts	✓
1.5	Metering equipment	✓	4.5	Enclosure not damaged/deteriorated so as to impair safety	✓	5.4	Non-sheathed cables protected by enclosure in conduit, ducting or trunking (including confirmation of the integrity of conduit and trunking systems)	✓
1.6	Means of main isolation (where present)	✓	4.6	Presence of linked main switch	✓	5.5	Adequacy of cables for current-carrying capacity with regard to the type and nature of installation	✓
2.0	Presence of adequate arrangements for other sources (microgenerators etc)		4.7	Operation of main switch (functional check)	✓	5.6	Adequacy of protective devices, type and rated current for fault protection	✓
2.1	Adequate arrangements where a generating set operates as a switched alternative to the public supply	NA	4.8	Main switch capable of being secured in the OFF position	✓	5.7	Presence and adequacy of circuit protective conductors	✓
2.2	Adequate arrangements where a generating set operates in parallel with the public supply	NA	4.9	Operation of circuit-breakers and RCDs to prove disconnection (functional check)	NA	5.8	Co-ordination between conductors and overload protective devices	✓
2.3	Presence of alternative/additional supply warning notice(s)	NA	4.10	Correct identification of circuits and protective devices	✓	5.9	Wiring system(s) appropriate for the type and nature of the installation and external influences	✓
3.0	Earthing and bonding arrangements		4.11	Presence of RCD test notice at or near consumer unit	NA	5.10	Cables installed under floors, above ceilings, in walls / partitions, adequately protected against damage	
3.1	Presence and condition of distributor's earthing arrangement	✓	4.12	Presence of non-standard (mixed) cable colour warning notice at or near consumer unit	NA		• installed in prescribed zones Extent and limitations	✓
3.2	Presence and condition of earth electrode connection	NA	4.13	Presence of alternative or additional supply warning notice at or near consumer unit	NA		• incorporating earthed armour or sheath, or installed within earthed wiring system, or otherwise protected against mechanical damage by nails, screws and the like (see Extent and limitations)	✓
3.3	Confirmation of adequate earthing conductor size	✓	4.14	Presence of next inspection recommendation label	✓	5.11	Provision of additional protection by RCD not exceeding 30 mA	
3.4	Accessibility and condition of earthing conductor at Main Earthing Terminal (MET)	✓	4.15	Presence of other required labelling (please specify)	NA		• ⁵ for all socket-outlets of rating 20 A or less	NA
3.5	Confirmation of adequate main protective bonding conductor sizes	NA	4.16	Examination of protective device(s) and base(s), correct type and rating (no signs of unacceptable thermal damage, arcing or overheating)	✓		• ⁵ for mobile equipment not exceeding a rating of 32A for use outdoors	NA
3.6	Accessibility and condition of main protective bonding conductor connections	NA	4.17	Single-pole switching or protective devices in the line conductors only	✓		• ⁵ for cables installed in walls or partitions at a depth of less than 50 mm	NA
3.7	Accessibility and condition of other protective bonding connections	NA	4.18	Protection against mechanical damage where cables enter consumer unit	✓		• ⁵ for cables installed in walls / partitions containing metal parts regardless of depth	NA
3.8	Provision of earthing and bonding labels at all appropriate locations	NA	4.19	Protection against electromagnetic effects where cables enter metallic consumer unit/enclosure	✓		• ⁵ lighting of bus shelters, telephone kiosks, town plans and the like	NA
			4.20	RCDs provided for fault protection – includes RCBOs	NA			
			4.21	RCDs provided for additional protection – includes RCBOs	NA			
			4.22	Confirmation of indication that SPD is functional	NA			

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

⁵ Older installations designed prior to BS 7671:2008 may not have been provided with RCDs for additional protection.

* All 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 Page 2 of the report.

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SCHEDULE OF INSPECTIONS

Item	Description	Outcome*
5.12	Provision of fire barriers, sealing arrangements and protection against thermal effects	✓
5.13	Band II cables segregated/separated from Band I cables	✓
5.14	Cables segregated/separated from communications cabling	✓
5.15	Cables segregated/separated from non-electrical services	✓
5.16	Termination of cables at enclosures (extent of sampling indicated on page 1 of the report)	✓
	• Connections soundly made and under no undue strain	✓
	• No basic insulation of a conductor visible outside enclosures	✓
	• Connections of live conductors adequately enclosed	✓
	• Adequately connected at point of entry to enclosure (glands, bushes etc)	✓
5.17	Condition of accessories including socket-outlets, switches and joint boxes	✓
5.18	Suitability of accessories for external influences	✓
5.19	Adequacy of working space / accessibility to equipment	✓
5.20	Single-pole devices for switching or protection in line conductors only	✓
6.0	Isolation and switching (isolation, switching off for mechanical maintenance and functional switching)	
6.1	In general	
	• presence and condition of appropriate devices	✓
	• correct operation verified	✓
6.2	For isolation and switching for mechanical maintenance only	
	• capable of being secured in the OFF position where appropriate	✓
	• acceptable location – state if local or remote from equipment being controlled where appropriate	✓
	• clearly identified by position and/or durable marking(s)	✓
6.3	For isolation only	
	• warning label(s) posted in situations where live parts cannot be isolated by the operation of a single device	✓

Item	Description	Outcome*
7.0	Current-using equipment (Permanently connected)	
7.1	Condition of equipment in terms of IP rating	✓
7.2	Equipment does not constitute a fire hazard	✓
7.3	Enclosure not damaged/deteriorated so as to impair safety	✓
7.4	Suitability for the environment and external influences	✓
7.5	Security of fixing	✓
7.6	Cable entry holes in ceiling above luminaires, sized or sealed so as to restrict the spread of fire <i>List number and location of luminaires inspected (Separate page)</i>	Ma
7.7	Recessed luminaires (downlighters)	
	• correct type of lamps fitted	Ma
	• installed to minimise build-up of heat by use of 'fire rated' fittings, insulation displacement box or similar	Ma
	• no signs of overheating to surrounding building fabric	Ma
	• no signs of overheating to conductors/terminations	Ma
8.0	Location(s) containing a bath or shower	
8.1	Additional protection by RCD not exceeding 30 mA	
	• for low voltage circuits serving the location	Ma
	• for low voltage circuits passing through Zone 1 and Zone 2 not serving the location	Ma
8.2	Where used as a protective measure, requirements for SELV or PELV are met	Ma
8.3	Shaver sockets comply with BS EN 61558-2-5 formerly BS 3535	Ma
8.4	Presence of supplementary bonding conductors unless not required by BS 7671: 2008	Ma
8.5	Low voltage (e.g. 230 volts) socket-outlets sited at least 3 m from zone 1	Ma
8.6	Suitability of equipment for external influences for installed location in terms of IP rating	Ma
8.7	Suitability of equipment for installation in a particular zone	Ma

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

Item	Description	Outcome*
9.0	Other special installations or locations - Part 7s	
9.1	List of all other special installations or locations, if any, present. (Record the results of any particular inspection and append separately)	Ma

SCHEDULE OF ITEMS INSPECTED PARTICULAR TO A LEISURE ACCOMMODATION VEHICLE OR A TRANSPORTABLE UNIT

Item	Description	Outcome*
10.0	Means of connection	
10.1	'Hook-up' connection arrangement (inlet, plug and connector)	
	• equipment complies with BS EN 60309-2	Ma
	• acceptable condition	Ma
10.2	Flexible 'hook-up' cable	
	• correct length and size (csa)	Ma
	• acceptable type (to BS 7919) and condition	Ma
10.3	Direct connection (to static vehicles)	
	• acceptable type of wiring system and condition	Ma
	• correct size (csa)	Ma
10.4	Presence of required identification/labelling	
	• instructions for the safe use of the caravan/transportable unit installation/supply	Ma
	• indication of voltage (stated on or adjacent) to all extra-low voltage (ELV) socket-outlets	Ma
10.5	Plugs and socket-outlets non-interchangeable with those of LV installation	Ma
10.6	All conductors adequately protected against mechanical damage	Ma
10.7	All conductors adequately protected against mechanical stresses (e.g. vibration from vehicular motion)	Ma

SCHEDULES AND ADDITIONAL PAGES

Additional pages, including data sheets for additional source(s)	Page No(s)	1	Schedule of Circuit Details for the Installation	Page No(s)	6
Schedule of Inspections	Page(s) No 4, 5		Schedule of Test Results for the Installation	Page No(s)	6
Special installations or locations	Page No(s)	1			

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.

* All 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 Page 2 of the report.

CIRCUIT DETAILS										TEST RESULTS																
Circuit number	Circuit designation <small>* To be completed only where this consumer unit is remote from the origin of the installation Record details of the circuit supplying this consumer unit in the bold box</small>	Type of wiring (see code)	Reference method (see Appendix A of BS 7671)	Number of points served	Circuit conductors csa		Overcurrent protective devices				RCD	Circuit impedances (Ω)				Insulation resistance				Maximum measured earth fault impedance, Z _s (Ω)	RCD					
					Live (mm ²)	cpc (mm ²)	Max. disconnector time permitted by BS 7671 (s)	BS (EN)	Type	Rating (A)	Short-circuit capacity (kA)	Operating current, I _{Δn} (mA)	Maximum Z _s permitted by BS 7671 (Ω)	Ring final circuits only (measured end to end)		All circuits (At least one column to be completed)		Line/Line (MΩ)	Line/Neutral (MΩ)		Line/Earth (MΩ)	Neutral/Earth (MΩ)	Polarity (✓)	operating times		Test without operation (✓)
														r ₁ (Line)	r _n (Neutral)	r ₂ (cpc)	(R ₁ + R ₂)							R ₂	at I _{Δn} (ms)	
1	lift Motor Room supply	B	A	1	6S	SWA 0.4	88	2	32	10	0.77				0.03			Flow	Flow	Flow	✓	0.14				
2	lift Motor Room supply	B	A	1	6S	SWA 0.4	88	2	32	10	0.77				0.05			Flow	Flow	Flow	✓	0.16				
3	lift Motor Room supply	B	A	1	6S	SWA 0.4	88	2	32	10	0.77				0.05			Flow	Flow	Flow	✓	0.16				
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Location of consumer unit **lift Motor Rm.** Designation of consumer unit **lift motor Rm. TPAU** Prospective fault current at consumer unit **4.50** kA

TEST INSTRUMENTS		Test instruments (serial numbers) used	
Multi-function		Insulation resistance	6028811
		Continuity	6028811
		Earth electrode resistance	
		Earth fault loop impedance	7022929
		RCD	Ze-0.11

A	Thermoplastic sheathed cables
B	Thermoplastic cables in non-metallic conduit
C	Thermoplastic cables in non-metallic conduit
D	Thermoplastic cables in non-metallic trunking
E	Thermoplastic cables in non-metallic trunking
F	Thermoplastic SWA cables
G	Thermoplastic SWA cables
H	Mineral insulated cables
I	Other - please state

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