

Jobs No 1336178

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DPN7/0724102

ELECTRICAL INSTALLATION CONDITION REPORT
FOR SMALL INSTALLATIONS NOT EXCEEDING 100 A

Contractor's Reference Number

CRN/

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: SOTON CITY COUNCIL

Address: NURSING

Postcode:

EXTENT OF THE INSTALLATION AND LIMITATIONS ON THE INSPECTION AND TESTING

Extent of the electrical installation covered by this report:
MAIN SUPPLY TO LIFT MOTOR ROOMS

Agreed limitations including the reasons, if any, on the inspection and testing:
NONE

Agreed with: N/A

Operational limitations including the reasons (see page No. N/A):
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.

PURPOSE OF THE REPORT

Purpose for which this report is required:
E.C.R. LIFT SUPPLY

Date(s) on which inspection and testing were carried out:
26/11/2018

DETAILS OF THE INSTALLATION

Occupier: COMMUNAL LIFT AREA

Address: RODBRIDGE TOWERS

Postcode:

Estimated age of the electrical installation: 160 years Evidence of alterations or additions: NO if yes, estimated age: NO

Date of previous inspection: 26/07/16 Electrical Installation Certificate No or previous Periodic Inspection or Condition Report No:

Records of installation available: YES Records held by: S.C.C.

SUMMARY OF THE CONDITION OF THE INSTALLATION

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

Summary of the condition of the installation continued on additional pages? No Yes N/A Specify page No(s): N/A

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

Delete as appropriate

Original (To the person ordering the work)

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)


ELECTRICAL INSTALLATION CONDITION REPORT FOR SMALL INSTALLATIONS NOT EXCEEDING 100 A

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 *N/A*

Item No	Observation(s) include reference location as appropriate	Code †
1		

DECLARATION

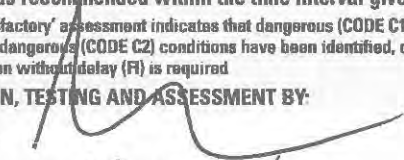
I/We, being the person(s) responsible for the inspection and testing of the electrical installation (as indicated by my/our signatures below), particulars of which are described on page 1, having exercised reasonable skill and care when carrying out the inspection and testing, hereby declare that the 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: 

Name: (CAPITALS) **ALAN NEWMAN**

Position: **ELECTRICIAN**

Date: **26/11/2018**

REPORT REVIEWED AND CONFIRMED BY: 

Signature: 

Name: (CAPITALS) **P. A. TARRANT**

(Registered Qualified Supervisor for the Approved Contractor)

Date: **29 NOV 2018**

NEXT INSPECTION

I/We recommend that this installation is further inspected and tested after an interval of not more than _____

(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 FI (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.

Additional pages? No Yes *N/A* Specify page No(s): *N/A*

† 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	Immediate remedial action required for items: <i>N/A</i>
Code C2 'Potentially dangerous'. Urgent remedial action required	Urgent remedial action required for items: <i>N/A</i>
Code C3 'Improvement recommended'.	Further investigation required without delay for items: <i>N/A</i>
Code FI 'Further investigation required without delay'.	Improvement recommended for items: <i>N/A</i>

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

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)	U ⁽¹⁾ V	Nominal frequency, f ⁽¹⁾	BS(EN)	Short-circuit capacity
TN-S <input checked="" type="checkbox"/>	1-phase (2-wire) <input checked="" type="checkbox"/>	N/A	1-phase (3-wire) <input checked="" type="checkbox"/>						
TN-C-S <input checked="" type="checkbox"/>	3-phase (3-wire) <input checked="" type="checkbox"/>	N/A	3-phase (4-wire) <input checked="" type="checkbox"/>	Single-phase Prospective fault current, I _{pr} ⁽²⁾⁽³⁾	U _o ⁽¹⁾	400V	External earth fault loop impedance, Z _s ⁽³⁾⁽⁴⁾	Type	Confirmation of supply polarity
TT <input checked="" type="checkbox"/>	Other <input checked="" type="checkbox"/>		N/A						
		Please state						Rated current	100 A

PARTICULARS OF INSTALLATION AT THE ORIGIN				Tick boxes and enter details, as appropriate				Main Switch/Switch-Fuse/Circuit-Breaker/RCD	
Means of earthing		Details of installation earth electrode (where applicable)		Measured Z _s	Maximum demand (Load)	Protective measure(s) for fault protection	Number of smoke alarms	Type BS(EN)	Voltage rating
Distributor's facility <input checked="" type="checkbox"/>	Type (eg rod(s), tape etc) <input checked="" type="checkbox"/>	N/A	Location <input checked="" type="checkbox"/>						
Installation earth electrode <input checked="" type="checkbox"/>	Electrode resistance, R _A	4A Ω	Method of measurement					No of poles	Rated current, I _n
Earthing conductor		Main protective bonding conductors and bonding of extraneous-conductive-parts		Water installation pipes <input checked="" type="checkbox"/>		Structural steel <input checked="" type="checkbox"/>		RCD operating current, I _{Δn} *	
Conductor material <input checked="" type="checkbox"/>	Conductor csa	Continuity/connection verified <input checked="" type="checkbox"/>	Location (where not obvious)	Conductor material <input checked="" type="checkbox"/>		Other <input checked="" type="checkbox"/>		RCD operating time (at I _{Δn})*	
5WA	65 mm ²	<input checked="" type="checkbox"/>		N/A		N/A		4A mA	
				Oil installation pipes <input checked="" type="checkbox"/>		Gas installation pipes <input checked="" type="checkbox"/>		Supply conductors material	
				N/A		N/A		Supply conductors csa	
								65 mm ²	
								Rated time delay	
								N/A ms	

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

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

PARTICULARS OF VEHICLE INSTALLATION OR TRANSPORTABLE UNITS				Earthing and protective bonding conductors				Tick boxes and enter details as appropriate							
<input type="checkbox"/> Hook-up connection		<input type="checkbox"/> 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"/> Flexible supply cable		For direct connection		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	
Length		Installation earth electrode details		Method of measurement		Measured earth fault loop impedance, Z _e		Water service		Conductor material		Conductor csa		mm ²	
m		Type (e.g. rod(s), tape(s))				Ω		Gas service		Conductor material		Conductor csa		mm ²	
csa		Electrode resistance, R _A		Location											
mm ²		Ω													
A		Ω													
(R ₁ +R ₂) _(c,s)															
Supply voltage(s) and maximum load/demand		Nominal voltage(s)		U _o		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	Southampton City Council Housing Operations 5 Mauretania Road Nursling Industrial Estate Southampton SO16 0YS NIC EIC No. 900075000 Gas Safe No.22613	Enrolment number (Essential information)	Branch number (if applicable)
Address		Telephone number	Email address
	Postcode:		

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	NA	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	✓		• 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		• [§] for all socket-outlets of rating 20 A or less	NA
3.5	Confirmation of adequate main protective bonding conductor sizes	✓	4.16	Examination of protective device(s) and base(s), correct type and rating (no signs of unacceptable thermal damage, arcing or overheating)	✓		• [§] for mobile equipment not exceeding a rating of 32A for use outdoors	NA
3.6	Accessibility and condition of main protective bonding conductor connections	✓	4.17	Single-pole switching or protective devices in the line conductors only	✓		• [§] 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	✓	4.18	Protection against mechanical damage where cables enter consumer unit	✓		• [§] 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	✓	4.19	Protection against electromagnetic effects where cables enter metallic consumer unit/enclosure	✓		• [§] 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

§ 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.

ELECTRICAL INSTALLATION CONDITION REPORT FOR SMALL INSTALLATIONS NOT EXCEEDING 100 A

SCHEDULE OF INSPECTIONS

Item	Description	Outcome*
5.12	Provision of fire barriers, sealing arrangements and protection against thermal effects	N/A
5.13	Band II cables segregated/separated from Band I cables	N/A
5.14	Cables segregated/separated from communications cabling	N/A
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>	N/A
7.7	Recessed luminaires (downlighters)	
	• correct type of lamps fitted	N/A
	• installed to minimise build-up of heat by use of 'fire rated' fittings, insulation displacement box or similar	N/A
	• no signs of overheating to surrounding building fabric	N/A
	• no signs of overheating to conductors/terminations	N/A
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	N/A
	• for low voltage circuits passing through Zone 1 and Zone 2 not serving the location	N/A
8.2	Where used as a protective measure, requirements for SELV or PELV are met	N/A
8.3	Shaver sockets comply with BS EN 61558-2-5 formerly BS 3535	N/A
8.4	Presence of supplementary bonding conductors unless not required by BS 7671: 2008	N/A
8.5	Low voltage (e.g. 230 volts) socket-outlets sited at least 3 m from zone 1	N/A
8.6	Suitability of equipment for external influences for installed location in terms of IP rating	N/A
8.7	Suitability of equipment for installation in a particular zone	N/A

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)	N/A

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

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

SCHEDULES AND ADDITIONAL PAGES

Additional pages, including data sheets for additional source(s)	Page No(s)	N/A	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)	N/A			

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					Type of wiring (see code)	Reference method (see Appendix A of BS 7671)	Number of points tested	Circuit conductors csa		Overcurrent protective devices				RCD		Circuit impedances (Ω)				Insulation resistance				Polarity (✓)	Maximum measured earth fault loop impedance, Z _s (Ω)	RCD		Test button operation (✓)					
	* 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.								Live (mm ²)	opc (mm ²)	BS (EN)	Type	Rating (A)	Short-circuit capacity (kA)	Operating current, I _n (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)			operating times at I _{Δn} (ms)	operating times at 5 I _{Δn} (ms)						
	r ₁ (Line)	r _n (Neutral)	r ₂ (opc)	R ₁ + R ₂	R ₂																													
1	TPN 100A SW 4PT MOTOR RM SUPPLY					B	A	1	65	SWA	.4	88	#32	10	MA	0.75	N/A	N/A	N/A	0.06	N/A	∞	∞	∞	∞	∞	✓	0.17	N/A	N/A	N/A			
2	" " " "					B	A	1	65	SWA	.4	88	#32	10	MA	0.75	N/A	N/A	N/A	0.05	N/A	∞	∞	∞	∞	∞	✓	0.16	N/A	N/A	N/A			
3	" " " "					B	A	1	65	SWA	.4	88	#32	10	MA	0.75	N/A	N/A	N/A	0.06	N/A	∞	∞	∞	∞	∞	✓	0.17	N/A	N/A	N/A			
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Location of consumer unit						Designation of consumer unit						Prospective fault current at consumer unit																						
4PT MOTOR RM						4PT MOTOR RM TPN.						4.14 kA																						

TEST INSTRUMENTS											
Test instruments (serial numbers) used											
Multi-function	N/A	Insulation resistance	6028611	Continuity	6028011	Earth electrode resistance	N/A	Earth fault loop impedance	7022929	RCD	0.112

COULDS FOR USE OF WIRING									
A	Thermoplastic insulated sheathed cables								
B	Thermoplastic cables in non-metallic conduit								
C	Thermoplastic cables in non-metallic trunking								
D	Thermoplastic cables in 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								