

DOMESTIC ELECTRICAL INSTALLATION CONDITION REPORT (FOR A SINGLE DWELLING)

Issued in accordance with British Standard 7571 - Requirements for Electrical Installations by an Approved Contractor or Competent Body enrolled with NICEIC, Warwick House, Houghton Hall Park, Houghton Regis, Dunstable LU5 5ZX.

A. DETAILS OF THE CLIENT

Client:

MR & MRS Purser.

Address:

No 2 Gadsden Close
Cranfield

01234 - 765791

Postcode: MK43 0HF

B. PURPOSE OF THE REPORTPurpose
for which
this
report is
required:Confirmation that the installation is not damaged
or deteriorated as to impair safety.Date(s) on which inspection
and testing were carried out:

10.02.2012

C. DETAILS OF THE INSTALLATION

Occupier:

as above.

Address:

as above.

Postcode:

Estimated age of the
electrical installation:

10 years

Evidence of alterations
or additions

1/25

If yes,
estimated
age

5 years

Date of previous
inspection:

unknown

Electrical Installation Certificate No or previous
Periodic Inspection or Condition Report No:

N/A

Records of installation
available:

NO

Records held by:

N/A Client

**D. EXTENT OF THE INSTALLATION AND LIMITATIONS ON THE
INSPECTION AND TESTING**

Extent of the electrical installation covered by this report:

Whole Building

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

Limitation 75%

Agreed with: Client

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

N/A

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.

E. 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 and/or potentially dangerous conditions have been identified

CPM-400

I. NEXT INSPECTION

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

change of Occupancy or 10 YRS

(Enter interval in terms of years or months, as appropriate)

provided that any items at F 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 require further investigation 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 (see F).

J. DETAILS OF NICEIC APPROVED CONTRACTOR

Trading title: GLOVE ELECTRICAL UK LTD.

Address: Brook Cottage, Robin Holly,
Thurleigh,
Bedford

Postcode MK44 2EQ

Telephone number: 01234 771080

Email address:



Enrolment number:
(Essential information) 033065

Branch number:
(if applicable)

K. SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

System type(s)	Number and type of live conductors		Nature of supply parameters		Characteristics of primary supply overcurrent protective device(s)	
TNS		a.c. ☒	Other (please state):	Nominal voltage(s) U_0 : 230 V	U_0 : 230 V	BS(EN) 1361
TNCS	☒	1-phase (2-wire) ☒		Nominal frequency, f : 50 Hz	Number of sources:	Type IIb
TT		2-phase (3-wire)		Prospective fault current, I_{pf} : 1.1 kA	Notes: (1) by enquiry (2) by enquiry or by measurement (3) where noted from other source, record the higher or highest value (4) by measurement	Rated current 100 A
		3-phase (4-wire)		External earth fault loop impedance, Z_g : 23 Ω		Short-circuit capacity 30 kA
						Confirmation of supply polarity ☒ ☒

L. PARTICULARS OF INSTALLATION AT THE ORIGIN

Means of earthing		Details of installation earth electrode (where applicable)	
Distributor's facility:	☒	Type: (eg rods, tapes etc)	N/A
Installation earth electrode:	N/A	Electrode resistance, R_A :	(Ω)
		Location:	N/A
		Method of measurement:	N/A

Main switch or circuit-breaker		Earthing and protective bonding conductors	
Type BS(EN)	4293	Earthing conductor	
No of poles	2	Conductor material	Copper
Primary supply conductors (material)	Copper	Conductor CSA	16 mm ²
Primary supply conductors (CSA)	25 mm ²	Connection/continuity verified	☒ ☒
Voltage rating	240 V	Main protective bonding conductors	
Rated current, I_n	80 A	Conductor material	Copper
RCD operating current, $I_{\Delta n}$	30 mA	Conductor CSA	10 mm ²
Rated time delay	N/A ms	Connection/continuity verified	☒ ☒
RCD operating time (at $I_{\Delta n}$)	28.6 ms	Bonding of extraneous-conductive-parts (✓)	
* Apply only where an RCD is suitable and is used as a main circuit-breaker		Water service	☒
		Gas service	☒
		Oil service	☐
		Structural steel	☐
		Lightning protection	☐
		Other incoming services	☐

SCHEDULE OF INSPECTIONS

Item Description Outcome* Location reference

1.0 Condition/adequacy of distributor's/supply intake equipment

1.1	Service cable	✓	Cabinet
1.2	Service cut-out/fuse(s)	✓	"
1.3	Meter tails - distributor	✓	"
1.4	Meter tails - consumer	✓	Hall
1.5	Metering equipment	✓	Cabinet
1.6	Means of main isolation (where present)	✓	"

2.0 Presence of adequate arrangements for other sources (microgenerators etc)

N/A

3.0 Earthing and bonding arrangements

3.1	Presence and condition of distributor's earthing arrangement	✓	Cabinet
3.2	Presence and condition of earth electrode connection	N/A	-
3.3	Confirmation of adequate earthing conductor size	✓	
3.4	Accessibility and condition of earthing conductor at Main Earthing Terminal (MET)	✓	
3.5	Confirmation of adequate main protective bonding conductor sizes	✓	
3.6	Condition and accessibility of main protective bonding conductor connections	✓	
3.7	Provision of earthing and bonding labels at all appropriate locations	✓	

Item Description Outcome* Location reference

4.0 Consumer unit(s)

4.1	Adequacy of working space or access to consumer unit	✓	Hall
4.2	Security of fixing	✓	"
4.3	Condition of enclosure(s) in terms of IP rating	✓	"
4.4	Condition of enclosure(s) in terms of fire rating	✓	"
4.5	Enclosure not damaged/deteriorated so as to impair safety	✓	"
4.6	Presence of linked main switch	✓	"
4.7	Operation of main switch (functional check)	✓	"
4.8	Manual operation of circuit-breakers and RCDs to prove disconnection	✓	"
4.9	Correct identification of circuits and protective devices	✓	"
4.10	Presence of RCD test notice at or near consumer unit	✓	"
4.11	Presence of non-standard (mixed) cable colour warning notice at or near consumer unit	✓	"
4.12	Presence of alternative supply warning notice at or near consumer unit	N/A	-
4.13	Presence of replacement next inspection recommendation label	✓	"
4.14	Presence of other required labelling (please specify)	✓	230V
4.15	Examination of protective device(s) and base(s); correct type and rating (no signs of unacceptable thermal damage, arcing or overheating)	✓	
4.16	Single-pole protective devices in the line conductor only	✓	Large SW.

* 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 state F/I
Its determines whether danger or potential danger exists

Outcome

Provide additional comment where appropriate on attached numbered sheets.
C1, C2 and C3 coded items to be recorded in section F of the report.

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SCHEDULE OF INSPECTIONS

Item Description Outcome* Location reference

4.17 Protection against mechanical damage where cables enter metallic consumer unit

N/A

4.18 Protection against electromagnetic effects where cables enter metallic consumer unit/enclosure

N/A

4.19 RCDs provided for fault protection – includes RCBOs

✓

4.20 RCDs provided for additional protection – includes RCBOs

✓

5.0 Final circuits

5.1 Identification of conductors

✓

5.2 Cables correctly supported throughout their run

✓

5.3 Condition of insulation of live parts

✓

5.4 Non-sheathed cables protected by enclosure in conduit, ducting or trunking (including confirmation of the integrity of conduit and trunking systems)

N/A

5.5 Adequacy of cables for current-carrying capacity with regard to the type and nature of installation

✓

5.6 Adequacy of protective devices; type and rated current for fault protection

✓

5.7 Presence and adequacy of circuit protective conductors

✓

5.8 Co-ordination between conductors and overload protective devices

✓

5.9 Wiring system(s) appropriate for the type and nature of the installation and external influences

✓

5.10 Concealed cables installed in prescribed zones (see extent and limitations)

✓

Item Description Outcome* Location reference

5.11 Concealed cables incorporating earthed armour or sheath, or run within earthed wiring containment system, or otherwise protected against mechanical damage from nails, screws and the like where not in prescribed zones or not protected by 30 mA RCD (see extent and limitations)

N/A

5.12 Provision of additional protection by RCD not exceeding 30 mA

• used to supply mobile equipment not exceeding 32 A rating for use outdoors

✓

• for all socket-outlets not exceeding 20 A rating unless exempt

✓

• for cables concealed in walls or partitions

✓

5.13 Provision of fire barriers, sealing arrangements and protection against thermal effects

✓

5.14 Band II cables segregated/separated from Band I cables

N/A

5.15 Cables segregated/separated from communications cabling

N/A

5.16 Cables segregated/separated from non-electrical services

✓

5.17 Termination of cables at enclosures (extent of sampling indicated in Section D 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.)

✓

* All boxes must be completed.

✓ indicates Acceptable condition
LMF indicates a LimitationN/A* indicates Not applicable
Unacceptable condition state C1 or C2
Improvement recommended state C3Further investigation required state F1
If its determining whether danger or potential danger existsOutcome
Provide additional comment where appropriate on attached numbered sheets
C1, C2 and C3 coded items to be recorded in section F of the report.

SCHEDULE OF INSPECTIONS

Item	Description	Outcome*	Location reference	Item	Description	Outcome*	Location reference
5.18	Condition of accessories including socket-outlets, switches and joint boxes	✓		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>	✓	3 o/s + landing
5.19	Suitability of accessories for external influences	✓		7.7	Recessed luminaires (downlighters)		
6.0	Isolation and switching (isolation, switching off for mechanical maintenance, emergency switching/stopping and functional switching)				• correct type of lamps fitted	N/A	
6.1	In general				• installed to minimise build-up of heat by use of 'fire rated' fittings, insulation displacement box or similar	N/A	
	• presence and condition of appropriate devices	✓			• no signs of overheating to surrounding building fabric	N/A	
	• correct operation verified	✓			• no signs of overheating to conductors/terminations	N/A	
6.2	For isolation and switching for mechanical maintenance only			8.0	Location(s) containing a bath or shower		
	• capable of being secured in the OFF position where appropriate	✓		8.1	Additional protection for all low voltage (LV) circuits by RCD not exceeding 30 mA	✓	Bathroom
	• acceptable location – state if local or remote from equipment being controlled where appropriate	✓		8.2	Where used as a protective measure, requirements for SELV or PELV are met	N/A	
	• clearly identified by position and/or durable marking(s)	✓		8.3	Shaver sockets comply with BS EN 61558-2-5 or BS 3535	N/A	
6.3	For isolation only			8.4	Presence of supplementary bonding conductors unless not required by BS 7671: 2008	N/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	N/A	
6.4	For emergency switching/stopping only			8.6	Suitability of equipment for external influences for installed location in terms of IP rating	✓	Light
	• readily accessible for operation where danger might occur	N/A		8.7	Suitability of equipment for installation in a particular zone	✓	
7.0	Current-using equipment (Permanently connected)			8.8	Suitability of current-using equipment for a particular position within the location	✓	
7.1	Condition of equipment in terms of IP rating	✓		9.0	Other special installations or locations - Part 7s		
7.2	Equipment does not constitute a fire hazard	✓		9.1	List all other special installations or locations present, if any. Record the results of particular inspection applied separately	N/A	
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	✓					

* 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 state F1
(to determine whether danger or potential danger exists)

Outcome
Provide additional comment where appropriate on attached numbered sheets.
C1, C2 and C3 coded items to be recorded in section F of the report.

CIRCUIT DETAILS												TEST RESULTS																	
Circuit number	Circuit designation * 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.	Type of wiring (see code)	Reference number (see Appendix 4 of BS 7671)	Number of ports served	Circuit conductors (see BS 7671)		Also describe any special circumstances	Overcurrent protective devices				RCD Type (see BS 7671)	Prospective fault current (kA)	Circuit impedances (ohm)				Insulation resistance				Polarity (✓/✗)	Maximum measured earth fault loop impedance Z_s (ohm)	RCD operating times		Test button operation (✓/✗)			
					Line (mm ²)	Npc (mm ²)		BS (EN)	Type	Rating (kA)	Short circuit capacity (kA)			Residual current (mA)	Reg. final circuits only (measured and to read)		All circuits which are subject to BS 7671	Line/line (MΩ)	Line/neutral (MΩ)	Line/earth (MΩ)	Neutral/earth (MΩ)			at 500V (ms)	at 500V (ms)				
															R_1 (ohm)	R_2 (ohm)											$R_1 + R_2$ (ohm)	R_n (ohm)	
1	Cooker	A	1	1	6.0	4.0	4	60896	B	32	6	30	1.44	/	/	/	.46	/	100+	100+	100+	✓	.83	286	93	✓			
2	Sockets House	A	1		2.5	1.5	4	"	B	32	6	-	1.44	43	43	71	.28	/	"	"	"	✓	.48						
3	Sockets Kitchen ^{DS B Room}	A	1		2.5	1.5	4	"	B	32	6	-	1.44	67	66	120	.46	/	"	"	"	✓	.59						
4	Water Heater, ^{B Room Fan} + shower	A	1	1	2.5	1.5	4	"	B	16	6	-	2.87	/	/	/	.11	/	"	"	"	✓	.28						
5	Lights Down	A	1	7	1.5	1.0	4	"	B	6	6	-	7.67	/	/	/	1.03	/	"	"	"	✓	1.42						
6	Lights UP	A	1	6	1.5	1.0	4	"	B	6	6	-	7.67	/	/	/	.63	/	"	"	"	✓	.93						
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Location of consumer unit		Hallway										Designation of consumer unit		DB1										Prospective fault current at consumer unit		1.1		kA	

TEST INSTRUMENTS Test instruments (serial numbers) used

Multi-function	Fuke 1652	Insulation resistance	-	Continuity	-	Earth electrode resistance	-	Earth fault loop impedance	-	RCD	-
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