

DEC13005

Minor Electrical Installation Works Certificate

REQUIREMENTS FOR ELECTRICAL INSTALLATIONS - BS 7671: 2008

To be used only for minor electrical work which does not include the provision of a new circuit

MINOR WORKS DETAILS

Client **JAMES BAXTER**

Date minor works completed **5/12/13.**

Description of the minor works:

REPLACED MAIN SWITCH WITH RCD FOR ADDITIONAL PROTECTION.

Location/address of the minor works

1F1 151 BRUNTSFIELD PLACE, EDINBURGH EH10

Details of departures, if any, from BS 7671:2008 (as amended)

NONE

MODIFIED CIRCUIT DETAILS

System type and earthing arrangements TN-C-S ☐ TN-S ☒ TT ☐ TN-C ☐ IT ☐

Protective measures against electric shock

Overcurrent protective device for the modified circuit BS (EN) ☐ Type ☐ Rating **100** A

Residual current device (if applicable) BS (EN) ☐ Type ☐ $I_{\Delta n}$ **0.03** mA

Wiring system used to modify the circuit ☐ Reference method ☐ csa (live) ☐ (mm²) csa (cpc) ☐ (mm²)

Where the protection measure against electric shock is ADS, insert maximum disconnection time permitted by BS 7671: ☐ seconds Maximum Zs permitted by BS 7671 ☐ Ω

Comments on the existing installation:

INSPECTION AND TESTING OF THE MODIFIED CIRCUIT AND RELATED PARTS

Confirmation that necessary inspections have been under taken ☐

Circuit resistance $R_1 + R_2$ ☐ Ω or R_2 ☐ Ω

Insulation resistance: (* In multi-phase circuit, record the lower or lowest value, as appropriate)

Insulation Serial No(s) ☐

Line/Phase * ☐ M Ω

Line/Neutral * ☐ M Ω

Line/Earth * ☐ M Ω

Neutral/Earth ☐ M Ω

Confirmation of the adequacy of earthing ☒

Confirmation of the adequacy of protective bonding ☒

Confirmation of correct polarity ☒

Maximum measured earth fault loop impedance Zs **0.27** Ω

RCD operating time at $I_{\Delta n}$, (if RCD fitted) **0.19** ms

RCD operating time at 5 $I_{\Delta n}$, (if RCD fitted) **0.31** ms

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

NONE.

DECLARATION

I/We CERTIFY that the said works do not impair the safety of the existing installation, that the said works have been designed, constructed, inspected tested in accordance with BS 7671:2008, as amended to ☐ and that the above said works, to the best of my/our knowledge and belief, at the time of my/our inspection, complied with BS 7671:2008 except as detailed above.

Name **DEREK FULTON**

Signature **[Signature]**

Position **PROPRIETOR (ELECTRICIAN)**

Date **5/12/13**

Telephone No **0131 669 0922**

For and on behalf of **CONLEY ELECTRICAL**

Address

1 BELFIELD LANE, EDIN.

Post Code

EH15 2BL

ELECTRICAL INSTALLATION CONDITION REPORT

Requirements for Electrical Installations - BS 7671 : 2008, Amendment 1: 2011 (The 17th Edition Wiring Regulations).

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CERT NO. 0031213

Newlec
TEST INSTRUMENTS

SECTION A : Details of the client / person ordering the report

Name: JAMES BAXTER
Address: FINDHORN PLACE, EDINBURGH
Post Code:

SECTION B : Reason for producing this report

HMO LICENSING
Date(s) on which inspection & testing was carried out: 5/12/13

SECTION C : Details of the installation which is the subject of this report

Occupier: TENANTED
Address: 151 BRUNTFIELD PLACE, EDINBURGH
Post Code: EH10
Description of premises (tick as appropriate)
Domestic ☒ Commercial ☐ Industrial ☐ Other (include brief description) ☐
Estimated age of wiring system 20 years
Evidence of additions / alterations Yes ☒ No ☐ Not apparent ☐ If yes, estimate age 7 years
Installation records available? (Regulation 621.1) Yes ☒ No ☐ Date of last inspection DEC 2012 (date)

SECTION D : Extent and limitations of inspection and testing

Extent of the electrical installation covered by this report
ALL ACCESSIBLE OUTLETS / LIGHTS / VISIBLE CABLING
Agreed limitations including the reasons (see Regulation 634.2) NONE
Agreed with:
Operational limitations including the reasons (see page no.):
The inspection and testing detailed in this report and accompanying schedules have been carried out in accordance with BS 7671: 2008 (IET Wiring Regulations) as amended to 2010.
It should be noted that cables concealed within 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.

SECTION E : Summary of the condition of the installation

General condition of the installation (in terms of electrical safety) SATISFACTORY
Overall assessment of the installation in terms of its suitability for continued use SATISFACTORY / ~~UNSATISFACTORY~~ (Delete as appropriate)
*An unsatisfactory assessment indicates that dangerous (code C1) and/or potentially dangerous (code C2) conditions have been identified.

SECTION 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'.
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 DEC 2018 (date)

SECTION G : Declaration

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'.
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 DEC 2018 (date)
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:
Name (Capitals) SCOTT FULTON
Signature
For/on behalf of COMITY ELECTRICAL
Position
Address 151 BRUNTFIELD PLACE EDINBURGH
Post code EH15 2BL Date 5/12/13

Report authorised for issue by:
Name (Capitals) SCOTT FULTON
Signature
For/on behalf of COMITY ELECTRICAL
Position
Address 151 BRUNTFIELD PLACE EDINBURGH
Post code EH15 2BL Date 5/12/13

SECTION H : Schedule(s)

2 schedule(s) of inspection and 1 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.

Requirements for Electrical Installations - BS 7671 : 2008. Amendment 1: 2011 (The 17th Edition Wiring Regulations).

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10 For safety reasons, the electrical installation should be re-inspected at appropriate intervals by a competent person. The recommended date by which the next inspection is due is stated in Section F of the Report under 'Recommendations' and on a label at or near to the consumer unit / distribution board.

CONDITION REPORT INSPECTION SCHEDULE FOR DOMESTIC AND SIMILAR PREMISES WITH UP TO 100 A SUPPLY

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TEST INSTRUMENTS

Note: This form is suitable for many types of smaller installation and not exclusively domestic Requirements for Electrical Installations - BS 7671 (IET Wiring Regulations)

OUTCOMES

✓	To indicate an inspection has been carried out and the result is satisfactory
State C1 or C2	Unacceptable condition
State C3	Improvement recommended
N/V	Not verified
LIM	To indicate that, exceptionally, a limitation agreed with the person ordering the work prevented the inspection being carried out (applicable to a periodic inspection only)
N/A	To indicate the inspection is not applicable to a particular item

ITEM No	DESCRIPTION	OUTCOME (Use codes above. Provide additional comment where appropriate. C1, C2 and C3 coded items to be recorded in Section K of the Condition Report)	Further investigation required? (Y or N)
1.0	DISTRIBUTOR'S / SUPPLY INTAKE EQUIPMENT		
1.1	Service cable condition	✓	N
1.2	Condition of service head	✓	N
1.3	Condition of tails - Distributor	✓	N
1.4	Condition of tails - Consumer	✓	N
1.5	Condition of metering equipment	✓	N
1.6	Condition of isolator (where present)	N/A	N
2.0	PRESENCE OF ADEQUATE ARRANGEMENTS FOR OTHER SOURCES SUCH AS MICROGENERATORS (551.6; 551.7)	N/A	N
3.0	EARTHING / BONDING ARRANGEMENTS (411.3; Chap 54)		
3.1	Presence and condition of distributor's earthing arrangement (542.1.2.1; 542.1.2.2)	✓	N
3.2	Presence and condition of earth electrode connection where applicable (542.1.2.3)	N/A	N
3.3	Provision of earthing / bonding labels at all appropriate locations (514.13)	✓	N
3.4	Confirmation of earthing conductor size (542.3; 543.1.1)	✓	N
3.5	Accessibility and condition of earthing conductor at MET (543.3.2)	✓	N
3.6	Confirmation of main protective bonding conductor sizes (544.1)	✓	N
3.7	Condition and accessibility of main protective bonding conductor connections (543.3.2; 544.1.2)	✓	N
3.8	Accessibility and condition of all protective bonding connections (543.3.2)	✓	N
4.0	CONSUMER UNITS(S) / DISTRIBUTION BOARD(S)		
4.1	Adequacy of working space / accessibility to consumer unit / distribution board (132.12; 513.1)	✓	N
4.2	Security of fixing (134.1.1)	✓	N
4.3	Condition of enclosure(s) in terms of IP rating etc (416.2)	✓	N
4.4	Condition of enclosure(s) in terms of fire rating etc (526.5)	✓	N
4.5	Enclosure not damaged/deteriorated so as to impair safety (621.2(iii))	✓	N
4.6	Presence of main linked switch (as required by 537.1.4)	✓	N
4.7	Operation of main switch (functional check) (612.13.2)	✓	N
4.8	Manual operation of circuit-breakers and RCDs to prove disconnection (612.13.2)	✓	N
4.9	Correct identification of circuit details and protective devices (514.8.1; 514.9.1)	✓	N
4.10	Presence of RCD quarterly test notice at or near consumer unit / distribution board (514.12.2)	✓	N
4.11	Presence of non-standard (mixed) cable colour warning notice at or near consumer unit / distribution board (514.14)	N/A	N
4.12	Presence of alternative supply warning notice at or near consumer unit / distribution board (514.15)	N/A	N
4.13	Presence of other required labelling (please specify) (Section 514)	N/A	N
4.14	Examination of protective device(s) and base(s); correct type and rating (no signs of unacceptable thermal damage, arcing or overheating) (421.1.3)	✓	N
4.15	Single-pole protective devices in line conductor only (132.14.1; 530.3.2)	✓	N
4.16	Protection against mechanical damage where cables enter consumer unit / distribution board (522.8.1; 522.8.11)	✓	N
4.17	Protection against electromagnetic effects where cables enter consumer unit / distribution board / enclosures (521.5.1)	✓	N
4.18	RCD(s) provided for fault protection - includes RCBOs (411.4.9; 411.5.2; 531.2)	✓	N
4.19	RCD(s) provided for additional protection - includes RCBOs (411.3.3; 415.1)	✓	N

CONDITION REPORT INSPECTION SCHEDULE FOR DOMESTIC AND SIMILAR PREMISES WITH UP TO 100 A SUPPLY

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CERT NO. 0031213

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TEST INSTRUMENTS

Note: This form is suitable for many types of smaller installation and not exclusively domestic Requirements for Electrical Installations - BS 7671 (IET Wiring Regulations)

OUTCOMES

✓	To indicate an inspection has been carried out and the result is satisfactory
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N/A	To indicate the inspection is not applicable to a particular item

ITEM No	DESCRIPTION	OUTCOME (Use codes above. Provide additional comment where appropriate. C1, C2 and C3 coded items to be recorded in Section K of the Condition Report)	Further investigation required? (Y or N)
5.0	FINAL CIRCUITS		
5.1	Identification of conductors (514.3.1)	✓	N
5.2	Cables correctly supported throughout their run (522.8.5)	N/V	N
5.3	Condition of insulation of live parts (416.1)	✓	N
5.4	Non-sheathed cables protected by enclosure in conduit, ducting or trunking (521.10.1)	✓	N
	• To include the integrity of conduit and trunking systems (metallic and plastic)	✓	N
5.5	Adequacy of cables for current-carrying capacity with regard for the type and nature of installation (Section 523)	✓	N
5.6	Coordination between conductors and overload protective devices (433.1; 533.2.1)	✓	N
5.7	Adequacy of protective devices: type and rated current for fault protection (411.3)	✓	N
5.8	Presence and adequacy of circuit protective conductors (411.3.1.1; 543.1)	✓	N
5.9	Wiring system(s) appropriate for the type and nature of the installation and external influences (Section 522)	✓	N
5.10	Concealed cables installed in prescribed zones (see Section D. Extent and limitations) (522.6.101)	N/V	N
5.11	Concealed cables incorporating earthed armour or sheath, or run within earthed wiring system, or otherwise protected against mechanical damage from nails, screws and the like (see Section D. Extent and limitations) (522.6.101; 522.6.103)	N/A	N
5.12	Provision of additional protection by RCD not exceeding 30 mA:	✓	N
	• for all socket-outlets of rating 20 A or less provided for use by ordinary persons unless an exception is permitted (411.3.3)	N/A	N
	• for supply to mobile equipment not exceeding 32 A rating for use outdoors (411.3.3)	N/A	N
	• for cables concealed in walls or partitions (522.6.102; 522.6.103)	N/A	N
5.13	Provision of fire barriers, sealing arrangements and protection against thermal effects (Section 527)	✓	N
5.14	Band II cables segregated / separated from Band I cables (528.1)	✓	N
5.15	Cables segregated / separated from communications cabling (528.2)	✓	N
5.16	Cables segregated / separated from non-electrical services (528.3)	✓	N
5.17	Termination of cables at enclosures – indicate extent of sampling in Section D of the report (Section 526)	✓	N
	• Connections soundly made and under no undue strain (526.6)	✓	N
	• No basic insulation of a conductor visible outside enclosure (526.8)	✓	N
	• Connections of live conductors adequately enclosed (526.5)	✓	N
	• Adequately connected at point of entry to enclosure (glands, bushes etc.) (522.8.5)	✓	N
5.18	Condition of accessories including socket-outlets, switches and joint boxes (621.2(iii))	✓	N
5.19	Suitability of accessories for external influences (512.2)		N
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)	N/A	N
6.2	Where used as a protective measure, requirements for SELV or PELV met (701.414.4.5)	N/A	N
6.3	Shaver sockets comply with BS EN 61558-2-5 formerly BS 3535 (701.512.3)	✓	N
6.4	Presence of supplementary bonding conductors, unless not required by BS 7671:2008 (701.415.2)	N/A	N
6.5	Low voltage (e.g. 230 volt) socket-outlets sited at least 3 m from zone 1 (701.512.3)	N/A	N
6.6	Suitability of equipment for external influences for installed location in terms of IP rating (701.512.2)	✓	N
6.7	Suitability of equipment for installation in a particular zone (701.512.3)	✓	N
6.8	Suitability of current-using equipment for particular position within the location (701.55)	✓	N
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.)	N/A.	

Inspected by:

Name (Capitals)

D. FURTON

Signature

[Signature]

Date

5/12/13

GENERIC SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

Acknowledgment: this certificate is based on model in BS 7671 : 2008, Amendment 1 : 2011 (The 17th Edition IET Wiring Regulations).

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CERT NO. 0031213

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TEST INSTRUMENTS

DB reference: DB001 Area served: All cers 1st floor flat (LEVEL)

Location: HALL CARPENTERED Sub-main source: EDC SPARE (BANK)

Zs at DB(Ω): 0.27Ω Current rating: 60 amps

Ipf at DB kA: 2.67 Sub-main c.s.a.: 16 mm²

Correct supply polarity confirmed: ☒ Circuits vulnerable to tests: NONE

Phase sequence confirmed: ☐ Nos: 5.

CIRCUIT DETAILS AND TEST RESULTS

①	② Circuit Description	③ Number of points served	④ Installation Method	⑤ Circuit conductors: csa		⑥ Max disconnection time permitted by BS 7671 [s]	⑦ Overcurrent protective devices				⑧ RCD Operating current I _{Δn} [mA]	⑨ Circuit impedance			⑩ Maximum measured Zs Ω	⑪ Insulation Resistance MΩ		⑫ Polarity (✓)	⑬ RCD operating times		
				(a) Live mm ²	(b) CPC mm ²		(a) BS [EN]	(b) Type	(c) Rating [A]	(d) Break in capacity kA		(a) Ring final circuit continuity Ω	(b) Continuity Ω	(c) R ₁ +R ₂ Ω		(a) Live - Live	(b) Live - E		(a) @ 1s	(b) @ 5 I _{Δn}	(c) Test switch operation
1	KITCHEN SOCKETS	9	M1	2.5	1.5	0.3	60848	B	32	6kA		0.21	0.26	0.19	0.53	299	299	✓			
2	LIGHTS	9	M1	1.5	1.0	0.3	60848	B	6	6kA				0.37	0.64	299	299	✓			
3	LIGHTS	7	M1	1.5	1.0	0.3	60848	B	6	6kA				0.29	0.56	299	299	✓			
4	SMOKE ALARMS	8	M1	1.5	1.0	0.3	60848	B	16	6kA				0.19	0.46	299	299	✓			
5	SOCKETS SPARE.	14	M1	2.5	1.0	0.3	60848	B	32	6kA		0.17	0.19	0.22	0.49	299	299	✓	0.19	0.31	✓
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Deviations from Wiring Regulations and special notes:

Derek Furon

Signature

Date

5/12/13