Certificate No: 10092015

# ELECTRICAL INSTALLATION CONDITION REPORT

## SECTION A. DETAILS OF THE CLIENT / PERSON ORDERING THE REPORT

Name Birtley House Group Ltd

Address Birtley House, Bramley, Guildford, Surrey, GU5 0LB

## SECTION B. REASON FOR PRODUCING THIS REPORT

To assess the condition of the installation in relation to current standards

Date(s) on which inspection and testing was carried out 10/09/2015

## SECTION C. DETAILS OF THE INSTALLATION WHICH IS THE SUBJECT OF THIS REPORT

Occupier As above

Address

Description of premises (tick as appropriate)

Domestic [ ] Commercial [ ] Industrial [ ] Other (include brief description) [✓] Care Home

Estimated age of wiring system 20 years

Evidence of additions / alterations Yes If yes, estimate age 10 years

Installation records available? (Regulation 621.1) No Date of last inspection N/A (date)

## SECTION D. EXTENT AND LIMITATIONS OF INSPECTION AND TESTING

Extent of the electrical installation covered by this report

Circuits fed from DB22 - Exterior Show Area. 20% Sampling of terminations at enclosures.

Agreed limitations including the reasons (see Regulation 634.2)

N/A

Agreed with: N/A

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

Main supply fuse not pulled. Insulation tested L/N to Earth on circuit 11

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 01/01/2015

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. An inspection should be made within an accessible roof space housing other electrical equipment.

## SECTION E. SUMMARY OF THE CONDITION OF THE INSTALLATION

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

Items identified as C2 in section K need to be addressed to make the installation satisfactory

Overall assessment of the installation in terms of its suitability for continued use UNSATISFACTORY*

*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' (code FI). 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 10/09/2020

## SECTION G. 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 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) DEREK BREW

Signature 

For/on behalf of N/A

Position Sole Trader

Address 18 Warren Close, Whitehill, Bordon, GU35 9EX

Date 10/09/2015

**Report authorised for issue by:**

Name (Capitals) DEREK BREW

Signature 

For/on behalf of N/A

Position Sole Trader

Address 18 Warren Close, Whitehill, Bordon, GU35 9EX

Date 10/09/2015

## SECTION H. SCHEDULE(S)

One schedule(s) of inspection and one 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.

**Certificate No: 10092015**

## SECTION I. SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

Tick boxes and enter details, as appropriate.

| Earthing arrangements | Number and Type of Live Conductors | | Nature of supply Parameters | | Supply Protective Device |
|---|---|---|---|---|---|
| TN-C [ ] | a.c. [Yes] | d.c. [ ] | Nominal voltage, $U/U_0$ (1) | 400 230 V | BS (EN) Lim |
| TN-S [ ] | 1-phase, 2-wire [ ] | 2-wire [ ] | Nominal frequency, f (1) | 50 Hz | |
| TN-C-S [✓] | 2-phase, 3-wire [ ] | 3-wire [ ] | Prospective fault current $I_{pf}$ (2) | 1.72 kA | Type Lim |
| TT [ ] | 3-phase, 3-wire [ ] | Other [ ] | External loop impedance, Ze (2) | 0.44 Ω | |
| IT [ ] | 3-phase, 4-wire [Yes] | | Note: (1) by enquiry | | Rated current Lim A |
| | Confirmation of supply polarity [Yes] | | (2) by enquiry or by measurement | | |

Other sources of supply (as detailed on attached schedule) [ ]

## SECTION J. PARTICULARS OF INSTALLATION REFERRED TO IN THE REPORT

Tick boxes and enter details as appropriate

**Means of Earthing**

Distributor's facility [Yes]

Installation earth electrode [ ]

**Details of Installation Earth Electrode** *(where applicable)*

Type N/A

Location N/A

Resistance to Earth N/A Ω

**Main Protective Conductors**

| | | | |
|---|---|---|---|
| Earthing conductor | Material Steel | csa SWA mm² | Connection / continuity verified [✓] |
| Main protective bonding conductors | Material N/A | csa N/A mm² | Connection / continuity verified [ ] |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| To water installation pipes | [N/A] | To gas installation pipes | [N/A] | To oil installation pipes | [N/A] | To structural steel | [N/A] |
| To lightning protection | [N/A] | To other | [N/A] | Specify | | | |

**Main Switch / Switch-Fuse / Circuit-Breaker / RCD**

| | | | |
|---|---|---|---|
| Location Shed in Show Area | Current rating 100 A | **If RCD main switch** | |
| BS(EN) EN61008 | Fuse / device rating or setting 63 A | Rated residual operating current ($I_{\Delta n}$) | 30 mA |
| No of poles 4 | Voltage rating 415 V | Rated time delay | 30 ms |
| | | Measured operating time (at $I_{\Delta n}$) | 35 ms |

## SECTION K. OBSERVATIONS

Referring to the attached schedules of inspection and test results, and subject to the limitations specified at the *Extent and limitations of inspection* and testing section.

No remedial action is required [ ] The following observations are made [✓] (see below)

| OBSERVATION(S) Include schedule reference, as appropriate | CLASSIFICATION CODE |
|---|---|
| SWA Not earthed on circuit 5 | C2 |
| C Type 3 phase circuit breaker - circuit 7/8/9 excessive Earth Fault Loop Impedance | FI |
| Phase rotation reversed to distribution board | C3 |
| Mixed Cable Colours Label required | C3 |
| RCD Label required | C3 |
| SWA of cable used as earth | C3 |

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.

C1 - Danger present. Risk of injury. Immediate remedial action required

C2 - Potentially dangerous - urgent remedial action required

C3 - Improvement recommended

FI - Further investigation required without delay

## CONDITION REPORT
## GUIDANCE FOR RECIPIENTS (to be appended to the Report)

**This Report is an important and valuable document which should be retained for future reference.**

1. The purpose of this Condition Report is to confirm, so far as reasonably practible, whether or not the electrical installation is in a satisfactory condition for continued service (see Section E). The Report should identify and damage, deterioration, defects and/or condtions which may give rise to danger (see Section K).

2. The person ordering the Report should have received the "original" Report and the inspector should have retaineda duplicate.

3. The "original" Report should be retained in a safe place and be made available to any person inspecting or undertaking work on the electrical installation in the future. If the property is vacated, this Report will provide the new owner/occupier with details of the condition of the electrical installation at the time the Report was issued.

4. Where the installation incorporates a residual current device (RCD) there should be a notice at or near the device stating that it should be tested quarterly. For safety reasons it is important that this instruction is followed.

5. Section D (Extent and limitation) should identify fully the extent of the installation covered by this Report and any limitations on the inspection and testing. The inspector should have agreed these aspects with the person ordering the Report and with other interested parties (licensing authority, insurance company, mortgage provider and the like) before the inspection was carried out.

6. Some operational limitations such as inability to gain access to parts of the installation or an item of equipment may have been encountered during the inspection. The inspector should have noted these in Section D.

7. For items classified in Section K as C1 ("Danger present"), the safety of those using the installation is at risk, and it is recommended that a skilled person competent in electrical installation work undertakes the necessary remedial work immediately.

8. For items classified in Section K as C2 ("Potentially dangerous"), the safety of those using the installation may be at risk and it is recommended that a skilled person competent in electrical installation work undertakes the necessary remedial work as a matter of urgency.

9. Where it has been stated in Section K that an observation requires further investigation (code FI) the inspection has revealed an apparent deficency which may result in a code C1 or C2, and could not, due to the extent or limitations of the inspection, be fully identified. Such observations should be investigated as soon as possible. A further examination of the installation will be necessary, to determine the nature and extent of the apparent deficiency (see Section F).

10. For safety reasons, the electrical installation should be re-inspected at appropriate intervals by a skilled person or persons competent in such work. 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

*Note: This form is suitable for many types of smaller installation not exclusively domestic.*

| OUTCOMES | Acceptable condition | ✓ | Unacceptable condition | State C1 or C2 | Improvement recommended | State C3 | Further investigation | FI | Not verified | N/V | Limitation | LIM | Not applicable | N/A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| ITEM NO | DESCRIPTION | OUTCOME (Use codes above. Provide additional comment where appropriate C1, C2, C3 and FI coded items to be recorded in Section K of the Condition Report) |
|---|---|---|
| **1.0** | **DISTRIBUTOR'S / SUPPLY INTAKE EQUIPMENT** | |
| 1.1 | Condition of service cable | ✓ |
| 1.2 | Condition of service head | ✓ |
| 1.3 | Condition of distributor's earthing arrangement | ✓ |
| 1.4 | Condition of meter tails - Distributor / Consumer | N/V - In suppliers trunking |
| 1.5 | Condition of metering equipment | ✓ |
| 1.6 | Condition of isolator (where present) | ✓ |
| | | |
| **2.0** | **PRESENCE OF ADEQUATE ARRANGEMENTS FOR OTHER SOURCES SUCH AS MICROGENERATORS (551.6; 551.7)** | N/A |
| | | |
| **3.0** | **EARTHING / BONDING ARRANGEMENTS (411.3; Chap 54)** | |
| 3.1 | Presence and condition of distributor's earthing arrangements (542.1.2.1; 542.1.2.2) | ✓ |
| 3.2 | Presence and condition of earth electrode connection where applicable (542.1.2.3) | N/A |
| 3.3 | Provision of earthing / bonding labels at all appropriate locations (514.13.1) | N/A |
| 3.4 | Confirmation of earthing conductor size (542.3; 543.1.1) | C3 |
| 3.5 | Accessibility and condition of earthing conductor at MET (543.3.2) | ✓ |
| 3.6 | Confirmation of main protective bonding conductor sizes (544.1) | N/A |
| 3.7 | Condition and accessibility of main protective bonding conductor connections (543.3.2; 544.1.2) | N/A |
| 3.8 | Accessibility and condition of other protective bonding connections (543.3.2) | C2 |
| | | |
| **4.0** | **COMSUMER UNIT(S) / DISTRIBUTION BOARD(S)** | |
| 4.1 | Adequacy of working space / accessibility to consumer unit / distribution board (132.12; 513.1) | ✓ |
| 4.2 | Security of fixing (134.1.1) | ✓ |
| 4.3 | Condition of enclosure(s) in terms of IP rating etc (416.2) | ✓ |
| 4.4 | Condition of enclosure(s) in terms of fire rating etc (526.5) | ✓ |
| 4.5 | Enclosure not damaged/deteriorated so as to impair safety (621.2(iii)) | ✓ |
| 4.6 | Presence of main linked switch (as required by 537.1.4) | ✓ |
| 4.7 | Operation of main switch (functional check) (612.13.2) | ✓ |
| 4.8 | Manual operation of circuit-breakers and RCDs to prove disconnection (612.13.2) | ✓ |
| 4.9 | Correct identification of circuit details and protective devices (514.8.1; 514.9.1) | ✓ |
| 4.10 | Presence of RCD quarterly test notice at or near consumer unit / distribution board (514.12.2) | C3 |
| 4.11 | Presence of non-standard (mixed) cable colour warning notice at or near consumer unit / distribution board (514.14) | C3 |
| 4.12 | Presence of alternative supply warning notice at or near consumer unit / distribution board (514.15) | N/A |
| 4.13 | Presence of other required labelling (please specify) (Section 514) | N/A |
| 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) | ✓ |
| 4.15 | Single-pole switching or protective devices in line conductor only (132.14.1; 530.3.2) | ✓ |
| 4.16 | Protection against mechanical damage where cables enter consumer unit / distribution board (522.8.1; 522.8.11) | ✓ |
| 4.17 | Protection against electromagnetic effects where cables enter consumer unit / distribution board / enclosures (521.5.1) | ✓ |
| 4.18 | RCD(s) provided for fault protection - includes RCBOs (411.4.9; 411.5.2; 531.2) | ✓ |
| 4.19 | RCD(s) provided for additional protection - includes RCBOs (411.3.3; 415.1) | ✓ |
| 4.20 | Confirmation of indication that SPD is functional (534.2.8) | N/A |
| 4.21 | Confirmation that ALL conductor connections, including connections to busbars are correctly located in terminals and are tight and secure (526.1) | ✓ |
| 4.22 | Adequate arrangements where a generating set operates as a switched alternative to the public supply (551.6) | N/A |
| 4.23 | Adequate arrangements where a generating set operates in parallel with the public supply (551.7) | N/A |

| OUTCOMES | Acceptable condition | ✓ | Unacceptable condition | State C1 or C2 | Improvement recommended | State C3 | Further Investigation | FI | Not verified | N/V | Limitation | LIM | Not applicable | N/A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| ITEM NO | DESCRIPTION | OUTCOME (Use codes above. Provide additional comment where appropriate C1, C2, C3 and FI coded items to be recorded in Section K of the Condition Report) |
|---|---|---|
| **5.0** | **FINAL CIRCUITS** | |
| 5.1 | Identification of conductors (514.3.1) | ✓ |
| 5.2 | Cables correctly supported throughout their run (522.8.5) | ✓ |
| 5.3 | Condition of insulation of live parts (416.1) | ✓ |
| 5.4 | Non-sheathed cables protected by enclosure in conduit, ducting or trunking (521.10.1) | ✓ |
| | To include the integrity of conduit and trunking systems (metallic and plastic) | ✓ |
| 5.5 | Adequacy of cables for current-carrying capacity with regard for the type and nature of installation (Section 523) | ✓ |
| 5.6 | Coordination between conductors and overload protective devices (433.1; 533.2.1) | ✓ |
| 5.7 | Adequacy of protective devices: type and rated current for fault protection (411.3) | FI |
| 5.8 | Presence and adequacy of circuit protective conductors (411.3.1.1; 543.1) | ✓ |
| 5.9 | Wiring system(s) appropriate for the type and nature of the installation and external influences (Section 522) | ✓ |
| 5.10 | Concealed cables installed in prescribed zones (See section D. Extent and Limitations) (522.6.201) | N/V |
| 5.11 | Cables concealed under floors, above ceilings or in walls/partitions, adequately protected against damage (see Section D. Extent and limitations) (522.6.200; 522.6.203) | N/V |
| 5.12 | Provision of additional protection by RCD not exceeding 30 mA: | |
| | for all socket-outlets of rating 20 A or less provided for use by ordinary persons unless an exception is permitted (411.3.3) | ✓ |
| | for supply to mobile equipment not exceeding 32 A rating for use outdoors (411.3.3) | ✓ |
| | for cables concealed in walls at a depth of less than 50 mm (522.6.201; 522.6.203) | ✓ |
| | for cables concealed in walls / partitions containing metal parts regardless of depth (522.6.202; 522.6.203) | ✓ |
| 5.13 | Provision of fire barriers, sealing arrangements and protection against thermal effects (Section 527) | ✓ |
| 5.14 | Band II cables segregated / separated from Band I cables (528.1) | N/A |
| 5.15 | Cables segregated / separated from communications cabling (528.2) | N/V |
| 5.16 | Cables segregated / separated from non-electrical services (528.3) | N/V |
| 5.17 | Termination of cables at enclosures - indicated extent of sampling in Section D of the report (Section 526) | |
| | Connections soundly made and under no undue strain (526.6) | ✓ |
| | No basic insulation of a conductor visible outside enclosure (526.8) | ✓ |
| | Connections of live conductors adequately enclosed (526.5) | ✓ |
| | Adequately connected at point of entry to enclosure (glands, bushes etc.) (522.8.5) | ✓ |
| 5.18 | Condition of accessories including socket-outlets, switches and joint boxes (621.2(iii)) | ✓ |
| 5.19 | Suitability of accessories for external influences (512.2) | ✓ |
| 5.20 | Adequacy of working space / accessibility to equipment (132.12; 513.1) | ✓ |
| 5.21 | Single-pole switching or protection devices in line conductors only (132.14.1, 530.3.2) | ✓ |
| | | |
| **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 |
| 6.2 | Where used as a protective measure, requirements for SELV or PELV met (701.414.4.5) | N/A |
| 6.3 | Shaver sockets comply with BS EN 61558-2-5 formerly BS 3535 (701.512.3) | N/A |
| 6.4 | Presence of supplementary bonding conductors, unless not required by BS 7671:2008 (701.415.2) | N/A |
| 6.5 | Low voltage (e.g. 230 volt) socket-outlets sited at least 3 m from zone 1 (701.512.3) | N/A |
| 6.6 | Suitability of equipment for external influences for installed location in terms of IP rating (701.512.2) | N/A |
| 6.7 | Suitability of accessories and control gear etc. for a particular zone (701.512.3) | N/A |
| 6.8 | Suitability of current-using equipment for particular position within the location (701.55) | N/A |
| | | |
| **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) DEREK BREW Signature  Date 10/09/2015

# GENERIC SCHEDULE OF TEST RESULTS

**Certificate No: 10092015**

**DB reference no** DB22
**Location** Exterior Show Area
**Zs at DB** Ω 0.44
**$I_{pf}$ at DB (kA)** 1.72
**Correct supply polarity confirmed** ✓
**Phase sequence confirmed (where appropriate)** X

**Details of circuits and/or installed equipment vulnerable to damage when testing**
Not Known

**Details of test instruments used** (state serial and/or asset numbers)
Continuity 1002398101422559
Insulation resistance 1002398101422559
Earth fault loop impedance 1002398101422559
RCD 1002398101422559
Earth electrode resistance N/A

**Tested by:**
**Name (Capitals)** DEREK BREW
**Signature** 
**Date** 10/09/2015

**Circuit Details**

| | | Overcurrent device | | | | Conductor details | | | Test results | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Ring final circuit continuity Ω | | | Continuity Ω (R1 + R2) or R2 | | Insulation Resistance Insulation (MΩ) | | Polarity | Zs Ω | RCD (ms) | | | Remarks (continue on a seperate sheet if necessary) |
| Circuit Number | Circuit Description | BS(EN) | type | rating (A) | breaking capacity (kA) | Reference Method | Live (mm2) | cpc (mm2 | r1 (line) | rn (neutral) | r2 (cpc) | R1 + R2 * | R2 | Live - Live | Live - Earth | Insert ✓ or | | @ $I_{\Delta n}$ | @ $5I_{\Delta n}$ | Test button operation | |
| | Switch Fuse | BS88 | gG | 63 | 80 | D | 25 | 25 ) | N/A | N/A | N/A | .30 | N/A | 18 | 17 | ✓ | .44 | N/A | N/A | N/A | |
| | | | | | | | | | | | | | | | | | | | | | |
| 1 | 32A Blue Skt | EN60898 | B | 32 | 10 | B | 4 | 1.5 | N/A | N/A | N/A | N/A | .15 | 999 | 999 | ✓ | .91 | 35 | 10 | YES | |
| 2 | 32A Blue Skt | EN60898 | B | 32 | 10 | B | 4 | 1.5 | N/A | N/A | N/A | N/A | .03 | 999 | 999 | ✓ | .74 | 35 | 10 | YES | |
| 3 | 32A Blue Skt | EN60898 | B | 32 | 10 | B | 4 | 1.5 | N/A | N/A | N/A | N/A | .03 | 999 | 999 | ✓ | .65 | 35 | 10 | YES | |
| 4 | 13A Sk Below | EN60898 | C | 20 | 10 | B | 2.5 | 1.5 | N/A | N/A | N/A | N/A | .04 | 999 | 999 | ✓ | .55 | 35 | 10 | YES | |
| 5 | Outside Pwr | EN60898 | B | 20 | 10 | D | 2.5 | 1.5 | N/A | N/A | N/A | 1.09 | N/A | 999 | 999 | ✓ | 1.43 | 35 | 10 | YES | |
| 6 | Un-used | EN60898 | B | 10 | 10 | N/A | | | | | | | | | | | | | | | |
| 7 | Red | EN60898 | C | 32 | 10 | B | 4 | 1.5 | N/A | N/A | N/A | N/A | .07 | 999 | 999 | ✓ | .81 | 35 | 10 | YES | |
| 8 | 3 Phase | " | " | " | " | " | " | " | | | | | | | | | | | | | |
| 9 | Socket | " | " | " | " | " | " | " | | | | | | | | | | | | | |
| 10 | 13A Sk Below | EN60898 | C | 20 | 10 | B | 2.5 | 1.5 | N/A | N/A | N/A | N/A | .05 | 400 | 25 | ✓ | .50 | 35 | 10 | YES | |
| 11 | 13A Sk Below | EN60898 | C | 20 | 10 | B | 2.5 | 1.5 | N/A | N/A | N/A | N/A | .05 | Lim | 999 | ✓ | .50 | 35 | 10 | YES | |
| 12 | Unused | EN60898 | B | 32 | 10 | N/A | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |

* Where there are no spurs connected to a ring final circuit this value is also the (R1 + R2) of the circuit