



NAPIT **Periodic Report** on an existing Electrical Installation

Requirements for Electrical Installations –
BS 7671 [IEE Wiring Regulations 17th Edition]

Only for the reporting on the condition of an existing installation

HPIR116790158

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A Details of the installation

Owner/Occupier (*Delete as necessary*) Modern Living

Address 6 Osbourne Avenue
Jesmond
Newcastle upon Tyne

Postcode NE2 1JQ

Installation (*If different from owner/occupier*) N/A

Address 14 Manor House Road
Jesmond
Newcastle Upon Tyne

Postcode NE2 2LU

B Purpose for which this report is required *This form to be used only for reporting on the condition of an existing installation.*

Landlord request, previous periodic inspection report has expired.

C Details of the installation

Description of premises Domestic ☒ Commercial ☐ Industrial ☐ Other (*please state*)

Estimated age of the electrical installation 12 years

Evidence of alterations or addition ☐ Yes ☐ No If 'Yes', estimated years

Date of previous inspection 24 / 2 / 2006 Electrical Installation Certificate No. or previous Periodic Inspection Report No. HP/1396434

Records of installation available ☐ Yes ☐ No Records held by N/A

Extent of electrical installation covered by this report (*note 3*)

All circuits, lighting and power tested. 20% visually inspected.

Limitations (*See Regulations 634.2*)

N/A

This inspection has been carried out in accordance with BS 7671: 2008 (IEE Wiring Regulations), amended to 2008 (date)
Cables concealed within the trunkings and conduits, and/or cables and conduits concealed under floors, in roof spaces and generally within the fabric of the building or underground have not been inspected.

D Periodic Inspection Summary

Date(s) of the inspection from / / to / /

General conditions of the Installation

Good condition. Well maintained.

Overall assessment Satisfactory ☒ Unsatisfactory ☐

We recommend that this installation is further inspected and tested after an interval of not more than 5 months/years, provided that any observations 'requiring urgent attention' are attended to without delay. (*note 4*)

E Declaration

To the best of our knowledge and belief we confirm that the details recorded in this report, including any attached schedules and the recommendations are an accurate assessment of the condition of the Electrical Installation within the limitations described in Section C.

DECLARATION: To the best of our knowledge the details recorded in this report are an accurate indication of the Electrical Installation with Inspection findings listed in the attached schedules.

Company name DJ Electrical Services

Inspector name David Mullen

Company address 11A Catherine Street
Hartlepool

Postcode TS24 0QB

Signature David Mullen
electronically created

Position Proprietor

Date 23/02/2011

NAPIT Membership No. 11679

NAPIT *Periodic Report* on an existing Electrical Installation

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NOTES:

1. This Periodic Report shall only be used for the reporting on the condition of an existing installation.
2. This Report, normally comprising of at least four pages and shall include an Inspection Schedule and a Test Result Schedule. Additional Report and Test Sheets should be added as necessary. All additional pages shall be incorporated within the page numbering sequence to show, page number and total number of pages. The individual Periodic Report Number shall appear on each additional sheet to indicate the report it relates to.
3. The 'Extent and Limitations' box shall fully identify the elements of the installation that are covered by the report and those that are not, this aspect having been agreed with the client, or other interested parties before the final inspection and testing is carried out.
4. The time interval recommended for the next periodic inspection and testing shall be given. The IEE Guidance Note 3 provides guidance on the maximum interval between inspections for various types of buildings.
5. This Periodic Report is based upon the format of the Periodic Inspection Report for an Electrical Installation, issued by the Institute of Electrical Engineers and published in BS7671.
6. The maximum prospective fault current recorded should be the greater of either the short circuit current or the earth fault current.

NAPIT Periodic Report

Information for recipients (to be appended to the report).

This Periodic Report shall only be used for the reporting on the condition of an existing installation. You should have received an original Report and the contractor should have retained a duplicate. If you were the person ordering this Report, but not the owner of the installation, you should pass this Report, or a copy of it, immediately to the owner.

The original Report is to be retained in a safe place and be shown to any person inspecting or undertaking work on the electrical installation in the future. If you later vacate the property, this Report will provide the new owner with details of the condition of the Electrical Installation that it refers to.

The 'Extent and Limitations' box should fully identify the extent of the installation covered by this Report and any limitations on the inspection and tests. The Inspector should have agreed these aspects with you before the inspection was carried out.

For safety reasons, the electrical installation will need to be re-inspected at appropriate intervals by a competent person. The maximum recommended time interval before the next inspection is stated in the Report under 'Next Inspection'.

The Report is only valid if an Inspection Schedule And Schedule of Test Results are appended.

The Report will usually contain a list of recommended actions necessary to bring the installation up to the current standard.

For items classified as 'requires urgent attention', the safety of those using the installation may be at risk, and it is recommended that a competent person undertakes the necessary remedial work without delay.

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Supply characteristics and earthing arrangements

| | | | | | | | | |
|-----------------------|------|----------|----|---|---------------|---|--------------|---|
| Supply systems | TN-S | TN-C-S ✓ | TT | Number & type of live conductors | No. of phases | 1 | No. of wires | 2 |
|-----------------------|------|----------|----|---|---------------|---|--------------|---|

Nature of Supply Parameters *(by enquiry or by measurement)*

| | | | | | | | |
|--------------------------|-----|---|------------------------|----|----|----------------|---|
| Nominal voltage, U/U_n | 230 | v | Nominal frequency, f | 50 | Hz | Phase sequence | x |
|--------------------------|-----|---|------------------------|----|----|----------------|---|

| | | | | | |
|--|-----|----|--------------------------------|------|----------|
| Prospective fault current, I_{pf} (note 6) | 2.3 | kA | External loop impedance, Z_e | 0.10 | Ω |
|--|-----|----|--------------------------------|------|----------|

| | | | | | | | | | |
|---|---------|------|--------|------------------------|----|---|-------------------|-----|---------------------|
| Supply Protective Device Characteristics | BS 1361 | Type | Type 2 | Nominal Current Rating | 60 | A | Max Demand | N/A | kVA/Amps |
|---|---------|------|--------|------------------------|----|---|-------------------|-----|---------------------|

Means of Earthing Distributor's facility ☒ Installation earth electrode ☐

| | | |
|--|------------------------------|-----|
| Details of Installation Earth Electrode <i>(where applicable)</i> | Type (e.g. rod(s), tape etc) | N/A |
|--|------------------------------|-----|

| | | | | |
|----------|-----|-------------------------------|-----|----------|
| Location | N/A | Electrode resistance to earth | N/A | Ω |
|----------|-----|-------------------------------|-----|----------|

| Main Protective Conductors | Material | Csa (mm ²) | Verified | Water Csa(mm ²) | Gas Csa(mm ²) | Oil Csa(mm ²) |
|----------------------------|----------|------------------------|----------|-----------------------------|---------------------------|---------------------------|
|----------------------------|----------|------------------------|----------|-----------------------------|---------------------------|---------------------------|

| | | | | | | |
|--------------------|--------|----|---|----|----|-----|
| Earthing Conductor | Copper | 16 | ✓ | 10 | 16 | N/A |
|--------------------|--------|----|---|----|----|-----|

| | | | | | | | |
|------------------------------|--------|----|---|-------|-----|-----------------------|-----|
| Protective Bonding Conductor | Copper | 10 | ✓ | Other | N/A | Csa(mm ²) | N/A |
|------------------------------|--------|----|---|-------|-----|-----------------------|-----|

| Main Switch or Circuit Breaker | Material | Csa(mm ²) | Verified |
|--------------------------------|----------|-----------------------|----------|
|--------------------------------|----------|-----------------------|----------|

| | | | | | | |
|----------|------|-----|------------------|--------|----|---|
| BS 61008 | Type | N/A | Supply conductor | Copper | 16 | ✓ |
|----------|------|-----|------------------|--------|----|---|

| | | | | | | | |
|----------|--------------|--------------|---|----------------|----|----------------|-----|
| Location | Under staris | No. of Poles | 2 | Current rating | 80 | Voltage rating | 230 |
|----------|--------------|--------------|---|----------------|----|----------------|-----|

| | | | | |
|----------------------|----|---|----------------|-----|
| Fuse or Trip Setting | 80 | A | Voltage rating | 230 |
|----------------------|----|---|----------------|-----|

Rated residual operating current $I_{\Delta n} = 30$ mA measured operating time of 24 ms (at $I_{\Delta n}$)

(applicable only where an RCD is suitable and is used as a main circuit-breaker)

G Observations and recommendations for actions to be taken
Referring to the attached schedule of inspection and test results

Referring to the attached schedule of inspection and test results, and subject to the limitations at Section C.

☐ No remedial work required OR ☒ The following observations and recommendations are made

Explanation of codes

1. Requires urgent attention
2. Requires improvement
3. Requires further investigation
4. Does not comply with BS 7671 (as amended)
5. Comments

[illegible]

Note: For additional report pages use the continuation report form with the relevant serial number and page numbers detailed on each page.

Urgent remedial work recommended for items

Corrective action(s) recommended for items 1,2

H Schedule of Inspections

Schedule of Inspection Reports: Page no(s) 3 to 3

Additional pages, including additional source(s) data sheets: Page no(s) to

Schedule of Circuit and Test Results for the Periodic Inspection Page no(s) 4 to 4

The attached Schedules are part of this document and this Report is valid only when they are attached to it.

Inspected Schedule of Inspections

| | |
|-----|---|
| N/K | If previous certificate or reports exists have there been any alterations |
| ✓ | Inspection of Incoming Supply and equipment |
| ✓ | Earthing Conductor is present, securely connected and a warning label fitted |
| ✓ | Earthing Conductor of the correct size |
| ✓ | Protective Bonding Conductors correctly sized |
| ✓ | Protective Bonding Conductors securely connected and a warning label fitted |
| ✓ | Distribution Board position accessible |
| ✓ | Correct Circuit Protection Devices fitted and identified for each circuit |
| ✓ | Correct Cable type and size used, allowing for external influences and volt drop |
| N/A | Cable run in 'safe' zones and adequately protected (where readily accessible to inspect) |
| N/A | Cables securely fastened or in appropriate wiring systems (where readily accessible to inspect) |
| X | All Cable cores correctly identified at joints and in accessories (at samples inspected) |
| ✓ | All cable joints correctly terminated, secure and accessible (at samples inspected) |
| N/A | Modifications to the Building Fabric appropriate and safe (Structure) (where readily accessible to inspect) |
| N/A | Modifications to the Building Fabric appropriate and safe (Fire) (where readily accessible to inspect) |
| N/A | All Accessories correctly placed as per Approved Document M and BS 8300 (where applicable) |
| ✓ | Appropriate Supplementary Bonding present and adequately sized |
| ✓ | Protective Bonding securely connected and a warning label fitted if required |
| ✓ | Additional protection provided by RCD where required |
| ✓ | All Accessories have environmental protection appropriate for external influences |
| ✓ | All covers replaced, accessories secure and neatly aligned |
| N/A | The number of points and their location agree with the original design (if available) |
| N/A | Original circuit details correct on the installation schedule |
| ✓ | Periodic Label, RCD label and other Safety Labels fitted |
| ✓ | If installation has wiring colours of two versions to BS 7671, has warning label been fitted? |
| ✓ | Appropriate measures taken in Special Locations |
| ✓ | Fire Detection units installed |
| | Other (please state) N/A |
| | Other (please state) N/A |
| | Other (please state) N/A |
| | Other (please state) N/A |
| | Other (please state) N/A |
| | Other (please state) N/A |

Schedule of Test

| | | | |
|---|---|---|--|
| ✓ | External earth loop impedance, Ze | ✓ | Insulation Resistance between Live conductors |
| ✓ | Installation earth electrode | ✓ | Insulation Resistance between Live conductors & earth |
| ✓ | Prospective fault current I _{pf} | ✓ | Polarity (prior to energisation) |
| ✓ | Continuity of Earth Conductors | ✓ | Polarity (after energisation) including phase sequence |
| ✓ | Continuity of Circuit Protective Conductors | ✓ | Earth fault loop impedance |
| ✓ | Continuity of Protective Bonding Conductors | ✓ | RCDs / RCBOs including discrimination |
| ✓ | Volt drop verified | ✓ | Functional testing of devices |

The sections above are –

Yes (Y), No (N), Not Known (N/K), Satisfactory (✓), Not Satisfactory (X), Not Checked (N/C), Not Applicable (N/A) or Limitations (Lim)

| | | | |
|------------------|-------------------------------------|------|------------|
| Inspector's Name | David Mullen | Date | 23/02/2011 |
| Signature | David Mullen electronically created | | |



NAPIT Electrical Test Sheet

Requirements for Electrical Installations – BS 7671 [IEE Wiring Regulations 17th Edition]
Can be used for new installations, additions or alterations
Please complete all the unshaded areas.

This sheet forms part of Inspection Report Number*/Certificate Number*

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Owner/Occupier N/A

Address N/A 14 Manor House Road Jesmond Newcastle Upon Tyne N/A

Postcode NE2 2LU

Complete in every case

Location of distribution board Under stairs
Distribution board designation
Number of ways 12

Complete only if the distribution board is not connected directly to the origin of the installation

Supply to distribution board is from N/A
Overcurrent protective device for the distribution circuit:
Type BS(EN) N/A Rating N/A A
No. of phases N/A
Nominal Voltage N/A V
Associated RCD (if any): BS (EN) N/A
RCD No of Poles N/A
 $I_{\Delta n}$ N/A mA

Characteristics at this distribution board

Z_e N/A Ω Operating times of At $I_{\Delta n}$ N/A ms
 I_{pf} N/A kA associated RCD(if any) at 5 $I_{\Delta n}$ N/A ms

Test instrument serial number

Earth fault loop impd. 0810083197 RCD 0810083197
Insulation resistance 0810083197 Other
Continuity 0810083197 Other

CIRCUIT DETAILS

TEST RESULTS

| Circuit No. and phase | Circuit designation | Type of wiring | Ref. method | No. of points served | Circuit conductors csa | | Maximum disconnection time (BS:7671) (s) | Overcurrent protective devices | | | | RCD operating current I _n (mA) | BS7671 Max. permitted value Z _s Other 80 Ω | Circuit impedance Ω | | | | | | Insulation resistance (Record lower reading) | | | Polarity (✓) | Maximum measured Z _s (Ω) | Date of test (Live) | RCD testing | |
|--------------------------|---------------------------|----------------|-------------|----------------------|-------------------------|------------------------|--|--------------------------------|----------|------------|-----------------------------|---|---|--|----------------|----------------|--------------|---|----------------|--|------------------|-------------------|--------------|-------------------------------------|---------------------|-----------------------|-------------------------|
| | | | | | Live (mm ²) | CPC (mm ²) | | BS EN Number | Type No. | Rating (A) | Short circuit capacity (kA) | | | Ring final circuits only (measured end to end) | | | Figure 8 (✓) | All circuits to be completed using R1 R2, or R2, not both R ₁ +R ₂ R ₂ | | Date of test (Dead) | Live / Live (MΩ) | Live / Earth (MΩ) | | | | at I _{Δn} ms | at 5 I _{Δn} ms |
| | | | | | | | | | | | | | | r ₁ | r _n | r ₂ | | R ₁ +R ₂ | R ₂ | | | | | | | | |
| 1 | 1st Floor Shower | 1 | A | 1 | 10.0 | 4.0 | 0.4 | 60898 | B | 40 | 6 | 30 | 0.92 | | | | X | 0.30 | | 23/2 | >200 | >200 | ✓ | 0.40 | 23/2 | 24 | 20 |
| 2 | 2nd Floor Shower | 1 | A | 1 | 10.0 | 4.0 | 0.4 | 60898 | B | 40 | 6 | 30 | 0.92 | | | | X | 0.35 | | 23/2 | >200 | >200 | ✓ | 0.46 | 23/2 | 24 | 20 |
| 3 | Kitchen Sockets | 1 | A | 7 | 2.5 | 1.5 | 0.4 | 60898 | B | 32 | 6 | 30 | 1.15 | 0.31 | 0.31 | 0.6 | X | 0.26 | | 23/2 | >200 | >200 | ✓ | 0.23 | 23/2 | 24 | 20 |
| 4 | Ground floor sockets | 1 | A | 10 | 2.5 | 1.5 | 0.4 | 60898 | B | 32 | 6 | 30 | 1.15 | 0.45 | 0.46 | 0.73 | X | 0.30 | | 23/2 | >200 | >200 | ✓ | 0.42 | 23/2 | 24 | 20 |
| 5 | 1st and 2nd floor sockets | 1 | A | 14 | 2.5 | 1.5 | 0.4 | 60898 | B | 32 | 6 | 30 | 1.15 | 0.62 | 0.62 | 0.99 | X | 0.42 | | 23/2 | >200 | >200 | ✓ | 0.60 | 23/2 | 24 | 20 |
| 6 | Kitchen Lights | 1 | A | 6 | 1.5 | 1.0 | 0.4 | 60898 | B | 6 | 6 | 30 | 6.13 | | | | X | 0.44 | | 23/2 | >200 | >200 | ✓ | 0.54 | 23/2 | 24 | 20 |
| 7 | Ground Lights | 1 | A | 5 | 1.5 | 1.0 | 0.4 | 60898 | B | 6 | 6 | 30 | 6.13 | | | | X | 0.56 | | 23/2 | >200 | >200 | X | 0.66 | 23/2 | 24 | 20 |
| 8 | 1st and 2nd lights | 1 | A | 8 | 1.5 | 1.0 | 0.4 | 60898 | B | 6 | 6 | 30 | 6.13 | | | | X | 0.96 | | 23/2 | >200 | >200 | ✓ | 1.08 | 23/2 | 24 | 20 |
| 9 | Alarm | 1 | A | 1 | 1.5 | 1.0 | 0.4 | 60898 | C | 6 | 6 | 30 | 3.06 | | | | X | 0.40 | | 23/2 | >200 | >200 | ✓ | 0.50 | 23/2 | 24 | 20 |
| 10 | Smoke alarms | 1 | A | 12 | 1.5 | 1.0 | 0.4 | 60898 | C | 6 | 6 | 30 | 3.06 | | | | X | 1.21 | | 23/2 | >200 | >200 | ✓ | 1.30 | 23/2 | 24 | 20 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Wiring Types: 1 PVC/PVC 2 Single insulated in conduit or trunking 3 Mineral Insulated 4 Xlpe/Swa 5 BS:7629-1 (FP200) 6 Other

Comments on installation

See attached sheets page(s) of

Tested by: Name (capital letters) David Mullen

Signature David Mullen

Position Proprietor

Date(s) 23 / 2 / 2011