



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

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

NA/PIR 000000000

Only for the reporting on the condition of an existing installation

Page 1 of 4

## A Details of the installation

Owner\*/Occupier\*/Customer\*/ (\*Delete as necessary)  
 Address *C D SMITH*  
*41 HIGH STREET*  
*OLD TOWN*  
 Postcode *AB1 8Y2*

Installation *HILL HOUSE*  
 Address *41 HIGH STREET*  
*OLD TOWN*  
 Postcode *AB1 8Y2*

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

Purpose for which this report is required  
*CHANGE OF OWNERSHIP*

## C Details of the installation

Description of premises Domestic  Commercial  Industrial  Other (please state)   
 Estimated age of the electrical installation *15* years  
 Evidence of alterations or addition  Yes  No If 'Yes', estimated *5* years  
 Date of previous inspection *N/A* /  Electrical Installation Certificate No. or previous Periodic Inspection Report No. *N/A*  
 Records of installation available  Yes  No Records held by *NONE*  
 Extent of electrical installation covered by this report (note 4)  
*ELECTRICAL INSTALLATION TO HOUSE AND GARAGE*

Limitations  
*NO REMOVAL OF FLOOR COVERING IN ATTIC OR BUILT IN UNITS IN KITCHEN AND BEDROOMS*

This inspection has been carried out in accordance with BS 7671: *2001* (IEE Wiring Regulations), amended to *2004* (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 *12/01/2006* to *30/01/2006*  
 General conditions of the installation  
*POOR CONDITION DUE TO AGE OF PROPERTY, IMPROVEMENTS AND RECTIFICATION OF LISTED DEFECTS.*

Overall assessment Satisfactory  Unsatisfactory   
 We recommend that this installation is further inspected and tested after an interval of not more than *10* months/years, provided that any observations 'requiring urgent attention' are attended to without delay.

## 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.

Name *AB BROWN LTD*  
 Inspector *AB BROWN*  
 Address *21 NEW ROAD*  
*OLD TOWN*  
 Postcode *AB1 0D2*

Signature *AB Brown*  
 Position *INSPECTOR*  
 Date *25/01/2006*  
 NAPIT Membership No. *66332211*

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

## Requirements for Electrical Installations – BS 7671 [IEE Wiring Regulations]

### 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 maximum prospective fault current recorded should be the greater of either the short circuit current or the earth fault current.
4. 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.
5. 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. i.e. every 10 years or on change of occupancy for Domestic Electrical Installations.
6. 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 BS7671:2001.

### 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'. i.e. the Institute of Electrical Engineers recommend every 10 years or on change of occupancy for Domestic Electrical Installations.

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.**

## F Supply characteristics and earthing arrangements

Supply systems TN-S  TN-C-S  TT  Number & type of live conductors 1-phase, 2 wire  3-phase, 4 wire

Nature of Supply Parameters Note: (1) by enquiry\* or by measurement\*, (2) by enquiry\* or by measurement\* (\*Delete as necessary)

Normal voltage, U/U<sub>0</sub><sup>(1)</sup> 230 v Normal frequency, f<sup>(1)</sup> 50 Hz

Prospective fault current, I<sub>pf</sub><sup>(2)</sup> (note 3) 16 kA External loop impedance, Z<sub>e</sub><sup>(2)</sup> 0.12 Ω

Supply Protective Device Characteristics Type 1361 Nominal Current Rating 60 A Max Demand N/V A

Means of Earthing Distributor's facility  Installation earth electrode

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

Location N/A Electrode resistance to earth N/A

Main Protective Conductors	Material	Csa (mm <sup>2</sup> )	Verified	Location
Main Earthing	COPPER	10	<input checked="" type="checkbox"/>	DB CUPBOARD
Main equipotential bonding	COPPER	6	<input checked="" type="checkbox"/>	UNDERSTAIRS

Incoming Services Verified Water  Gas  Oil  Steel structure  Other services N/A

### Main Switch or Circuit Breaker

BS: Type 60947/3 Location DB CUPBOARD No. of Poles 2 Fuse or Setting N/A Current rating 100A

Voltage rating 230 Rated residual operating current I<sub>Δn</sub> = N/A mA and operating time of N/A ms (at I<sub>Δn</sub>)  
(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, 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: 2001 (as amended)

Item No.	Defect details	Code
1	MAIN EQUIPOTENTIAL BONDING CONDUCTORS HAVE CROSS SECTIONAL AREA BASED ON PREVIOUS EDITION OF IEE REGS	4
2	NO RCD PROTECTION FOR SOCKETS ACCESSIBLE FOR EXTERNAL USE	1
3	DAMAGED LAMPHOLDER IN BEDROOM	1
4	INCORRECT PROTECTIVE DEVICE FITTED FOR WATER HEATER	1
5	NO SUPPLEMENTARY BONDING CONDUCTORS BETWEEN SHOWER AND WATER PIPES IN BATHROOM	1
6	NO GREEN AND YELLOW SLEEVING ON CPCs AT SOCKETS	2
7	NO PHASE IDENTIFICATION ON BLACK CONDUCTORS USED AS SWITCHLINES	2
8	NO LABELS INDICATING PRESENCE OF TWO WIRING COLOURS	2
9	NO SMOKE DETECTORS INSTALLED	2

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 2, 3, 4, 5

Corrective action(s) recommended for items 1, 5, 6, 7, 8, 9

## H Schedule of Inspections

Schedule of Inspection Reports: Page no(s) 1 to 2

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

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/A	If previous certificate or reports exists have there been any alterations
✓	Inspection of Incoming Supply and equipment
✓	Main System Earth Conductor is present, securely connected and a warning label fitted
X	Main System Earth Conductor of the correct size
✓	Main Equipotential Bonding Conductors present at: Gas ✓ Water ✓ Other N/A
X	Main Equipotential Bonding Conductors correctly sized
✓	Main Equipotential Bonding Conductors securely connected and a warning label fitted
✓	Consumer Unit position accessible
X	Correct Circuit Protection Devices fitted and identified for each circuit
✓	Correct Cable type and size used, allowing for external influences
✓	Cable run in 'safe' zones or mechanically protected (where readily accessible to inspect)
✓	Cables securely fastened or in appropriate wiring protection 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)
✓	Modifications to the Building Fabric appropriate and safe (Structure) (where readily accessible to inspect)
✓	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 8305 (where applicable)
X	Appropriate Supplementary Bonding present and adequately sized
X	Supplementary Bonding securely connected and a warning label fitted if required
X	High Shock Risk Circuits are protected by a 30mA RCD
✓	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)
✓	Original circuit details correct on the installation schedule
X	Periodic Label, RCD Label and other Safety Labels fitted
X	If installation has wiring colours of two versions to BS 7671, has warning label been fitted?
X	Appropriate measures taken in Special Locations
X	Smoke Detection units installed
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	Other (please state)

### Schedule of Test

✓	External earth loop impedance	✓	Insulation Resistance between Live conductors
N/A	Installation earth electrode	✓	Insulation Resistance between Live conductors & earth
✓	Prospective short circuit current	✓	Polarity
✓	Continuity of Earth Conductors	✓	Earth fault loop impedance
✓	Continuity of Circuit Protective Conductors	X	Residual current devices
✓	Continuity of Supplementary Bonding Conductors	✓	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 ABBROWN  
 Signature AB BROWN Date 30/1/2006



# NAPIT Electrical Test Sheet

Requirements for Electrical Installations - BS 7671 [IEE Wiring Regulations]

This sheet forms part of Report Number  
**NA/PIR 000000000**

Page **4** of **4**



Can be used for the reporting on the condition of an existing installation only. Please complete all the unshaded areas.

Client: **C.D SMITH** Address: **47 HIGH STREET, OLD TOM** Postcode: **AZ1 8Y2**

**Complete in every case**

Location of distribution board: **MAIN**  
Distribution board designation: **CAPBOARD**  
Number of ways: **16 RPN**

Supply to distribution board is from: **N/A**  
Overcurrent protective device for the distribution circuit: **DB1**  
Type BS(EN): **N/A**

Nominal Voltage: **230** V  
Operating times of RCD (if any): **N/A** ms  
At  $I_{\Delta n}$ : **N/A** ms  
At 150 mA RCD (if any): **N/A** ms

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

Characteristics at this distribution board:  
 $Z_e$ : **0.12**  $\Omega$   
 $I_{pn}$ : **16** A  
 $I_{\Delta n}$ : **N/A** mA  
 $I_n$ : **N/A** mA  
 $I_{\Delta n}$ : **N/A** mA  
 $I_{pn}$ : **N/A** mA  
 $I_{\Delta n}$ : **N/A** mA  
 $I_{pn}$ : **N/A** mA

Test instrument number: **321**  
 Earth fault loop imped. **321**  
 Continuity **321**  
 Insulation resistance **321**  
 RCD **321**

## CIRCUIT DETAILS

## TEST RESULTS

Circuit No. and phase	Circuit description	Circuit conductors		No. of points served	Ref. method	Type of wiring	Maximum disconnection time (BS:7671) (s)	Overcurrent protective device Type BS(EN)	RCD operating current (mA)	BS7671 Max. permitted value $Z_s$ Other	Ring final circuits only (measured end to end)			Continuity		All circuits to be complete			Insulation resistance			RCD testing					
		Live (mm <sup>2</sup> )	CPC (mm <sup>2</sup> )								$R_1$	$R_2$	$R_1 + R_2$	Figure & check	$I_2$	$I_n$	$I_{\Delta n}$	$I_{pn}$	Date of test (Dead)	Date of test (Live)	Maximum measured $Z_s$ ( $\Omega$ )	Phase / Earth (M $\Omega$ )	Between live conductors (M $\Omega$ )	Neutral / Earth (M $\Omega$ )	at $I_{\Delta n}$ ms	X5 ms	
1	LIVING LITG	15	10	4	1	A	5	B	10	64	N/A	N/A	N/A	N/A	N	0.46	0.46	0.91	9.00+	9.00+	9.00+	1.03	✓	25/1	N/A	N/A	N/A
2	KITCHEN LITG	15	10	5	1	A	5	B	10	64	N/A	N/A	N/A	N	0.64	0.32	0.64	9.00+	9.00+	9.00+	1.016	✓	25/1	N/A	N/A	N/A	
3	BED & BATH LITG	15	10	4	1	A	4	B	10	64	N/A	N/A	N/A	N	0.52	0.26	0.52	9.00+	9.00+	9.00+	0.64	✓	25/1	N/A	N/A	N/A	
4	KITCHEN SOCKETS	25	15	4	1	A	4	B	10	30	0.16	0.21	0.16	✓	0.11	0.06	0.11	9.00+	9.00+	9.00+	0.23	✓	25/1	N/A	N/A	N/A	
5	DONKISTARS SOCKETS	25	15	4	1	A	4	B	10	30	0.24	0.40	0.24	✓	0.16	0.08	0.16	9.00+	9.00+	9.00+	0.28	✓	25/1	242	144	N/A	
6	UPSTAIRS SOCKETS	25	15	4	1	A	4	B	10	30	0.61	1.00	0.61	✓	0.40	0.25	0.40	9.00+	9.00+	9.00+	0.52	✓	25/1	N/A	N/A	N/A	
7	COOKER	6	25	5	1	A	5	B	10	30	N/A	N/A	N/A	N	0.10	0.05	0.10	9.00+	9.00+	9.00+	0.22	✓	25/1	N/A	N/A	N/A	

Wiring Types: **A** PVC/PVC **B** Single insulated in conduit or trunking **C** Mineral Insulated **D** BS:7629-1 (FP200) **E** Xipex **S**wa **F** Other

Comments on installation: **NONE**

Signature: **AB BROWN** Position: **INSPECTOR**

Tested by: Name (capital letters) **AB BROWN** Date(s) **25 / 01 / 2006**

See attached sheets page(s) **N/A** of **N/A**