



# WILL POWER

ELECTRICAL LTD ENGINEERS & CONTRACTORS



## DOMESTIC ELECTRICAL INSTALLATION PERIODIC INSPECTION REPORT

CERTIFICATE NUMBER

DPIR **example1**

### CLIENT DETAILS

Client / Address  
Mr & Mrs Jones  
House Name  
Street  
Town  
County  
Postcode

### INSTALLATION DETAILS

Address see client details

Estimated age of the Electrical installations: 40 years

Evidence of alterations or additions: yes If yes, estimated age: 20 years

Date of previous inspection n/a Electrical installation Certificate number or previous Periodic Inspection Report number n/a

Records of installation available n/a Records held by n/a

### PURPOSE OF THE REPORT

Purpose for which this report is required: Insurance purposes

### EXTENT OF THE INSTALLATION AND LIMITATIONS OF THE INSPECTION AND TESTING

Extent of the electrical installation covered by this report: full test

Agreed limitations, if any, on the inspection and testing

### DETAILS OF THE ELECTRICAL CONTRACTOR

Trading Title: Willpower Electrical Ltd

Address  
Cynlas,  
Gorn Road  
Llanidloes  
Powys

Postcode SY18 6DQ

### 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 of the installation and the limitations of the inspection and testing.

I/We further declare that in my/our judgement, the said installation was overall in A satisfactory condition at the time the inspection was carried out, and that it should be further inspected as recommended.

#### INSPECTION, TESTING AND ASSESSMENT BY:

Signature: *BPowell*

Name: B Powell

Position: Director

Date: date

#### REPORT REVIEWED AND CONFIRMED BY:

Signature: *WWilliams*

Name: W Williams

Date: date

**OBSERVATIONS AND RECOMMENDATIONS FOR ACTIONS TO BE TAKEN**

Referring to the attached schedules of inspection and test results, and subject to the limitations on page 1

There are no items adversely affecting electrical safety.

or

The following observations and recommendations are made.

Item No

Code †

1	Examples of recommendations :-	
2	No warning labels on distribution board	4
3	Light fitting in garage showing single insulated cable and shroud missing	3
4	Socket back boxes not formally earthed	4
5	Sleeving on earth cable not green/yellow	3
6	Sockets and switches are showing signs of aging, some switch faces are cracked	2
7	Socket back boxes not formally earthed	4
8	Distribution board not IP20 with cover removed	2
9	Bonding conductors only 6mm and incorrect cable colour	2
10		
11	Examples of recommendations that would give an unsatisfactory result :-	
12	No RCD protection on sockets, fuse box replacement required	1
13	Bathroom light not IP rated for zone its fitted in	1
14	Outside light at back broken, not IP rated for weather	1
15		

Note: If necessary, continue on additional page(s), which must be identified by the Domestic Periodic Inspection Report serial number and page no(s).

Where observations are made, the inspector will have entered one of the following codes against each observation to indicate the action (if any) recommended:-

1. 'requires urgent attention' or 2. 'requires improvement' or 3. 'requires further investigation' or 4. 'does not comply with BS 7671: 2008 (as amended)'

Urgent remedial work recommended for Items:

Corrective action(s) recommended for Items: 1 - 9

**SUMMARY OF THE INSPECTION**

General condition of the installation

General condition of wiring satisfactory apart from observations/ comments made.

Note: If necessary, continue on additional page(s), which must be identified by the Domestic Periodic Inspection Report serial number and page number(s).

Date(s) of the inspection: 08/07/2009

Overall assessment of the installation: Unsatisfactory

**NEXT INSPECTION**

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

5

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

provided that any items which have been attributed a Recommendation Code 1 (requires urgent attention) are remedied without delay. Items which have been attributed a Recommendation Code 2 or 3 should be actioned as soon as practicable

**SUPPLY CHARACTERISTICS AND EARTHING AND BONDING ARRANGEMENTS**

**CERTIFICATE NUMBER**

Supply Characteristics												System Type(s)			Characteristics of Primary Supply Overcurrent Protective Device(s)			Main Switch or Circuit-Breaker				Means of Earthing		Earthing conductor			DPIR		example1		
Supply Characteristics												System Type(s)			Characteristics of Primary Supply Overcurrent Protective Device(s)			Main Switch or Circuit-Breaker				Means of Earthing		Earthing conductor			Main protective bonding conductors		protective bonding conductors		
Nominal voltage: $U^{(1)}$	230	V														Distributor's facility	✓	Conductor material	Copper	Conductor material	Copper	Conductor material	Copper								
$U_o$	230	V	TN-S	✓	BS(EN)	88	Type BS(EN)	Wylex 60A	Voltage Rating	230	V	Installation earth electrode:		Conductor csa	6	mm <sup>2</sup>	Conductor csa	6	mm <sup>2</sup>	Conductor csa	6	mm <sup>2</sup>	Conductor csa	6	mm <sup>2</sup>						
Nominal frequency, $f^{(1)}$	50	Hz	TN-C-S		Type		No of poles	2	Current rating, $I_n$	60	A	Type: (e.g. rod(s), tape etc)		Continuity check	✓		Continuity check	✓													
Prospective fault current, $I_{pr}^{(2)}$	1.1	kA	TT		Nominal current rating	100	A	Supply conductors material	Copper	RCD operating current, $I_{\Delta n}^*$	n/a	mA	Electrode resistance, $R_a$		Ω	Bonding of extraneous-conductive-parts															
External earth fault loop impedance, $Z_e^{(3)}$	0.35	Ω			Short-circuit capacity	18	kA	Supply conductors csa	16	mm <sup>2</sup>	RCD operating time (at $I_{\Delta n}^*$ )	n/a	ms	Location		Water service:	✓	Gas service:	✓	Lightning protection											
Notes: (1) by enquiry (2) by enquiry or by measurement (3) by measurement												* (applicable only where an RCD is used as a mains circuit-breaker)												Method of measurement		Oil service:		Structural steel:		Other incoming services	

**SCHEDULE OF ITEMS INSPECTED**

All boxes must be completed

**Protective Measures against electric shock**

**Additional protection**

**Basic and fault protection**

Extra low voltage N/A SELV

**Double or reinforced insulation**

✓ Double or reinforced insulation

**Basic protection**

✓ Insulation of live parts X Barriers or enclosures

**Fault protection**

**Automatic disconnection of supply**

- ✓ Presence of earthing conductor
- ✓ Presence of circuit protective conductors
- X Presence of main protective bonding conductors
- ✓ Choice and setting of protective devices (for fault protection and/or overcurrent)

**Electrical separation**

LIM For one item of current-using equipment

**Prevention of mutual detrimental influence**

- ✓ Proximity of non-electrical services and other influences
- ✓ Segregation of Band I and Band II circuits or Band II insulation used
- N/A Segregation of safety circuits

**Identification**

- X Presence of diagrams, instructions, circuit charts and similar information
- ✓ Presence of danger notices
- ✓ Presence of other warning notices, including presence of mixed wiring colours
- ✓ Labelling of protective devices, switches and terminals
- X Identification of conductors

**Cables and conductors**

✓ Selection of conductors for current carrying capacity and voltage drop

**Cables and conductors (cont)**

- LIM Erection methods
- LIM Routing of cables in prescribed zones or within mechanical protection
- LIM Cables incorporating earthed armour or sheath or run in an earthed system, or otherwise protected against nails, screws etc
- ✓ Additional protection, by 30mA RCD (where required, in premises not under the supervision of skilled or instructed persons)
- LIM Presence of fire barriers, suitable seals and protection against thermal effects
- General**
- X Presence and correct location of appropriate devices for isolation and switching
- ✓ Adequacy of access to switchgear and other equipment
- X Particular protective measures for special installations and locations
- ✓ Connection of single-pole devices for protection or switching in phase conductors only
- ✓ Correct connection of accessories and equipment
- X Selection of equipment and protective measures appropriate to external influences
- ✓ Selection of appropriate functional switching devices

**SCHEDULE OF ITEMS TESTED**

- ✓ External earth fault loop impedance  $Z_e$
- ✓ Installation earth electrode resistance,  $R_A$
- ✓ Continuity of protective conductors
- ✓ Continuity of ring final circuit conductors
- ✓ Insulation resistance between live conductors
- ✓ Polarity
- ✓ Earth fault loop impedance,  $Z_s$
- ✓ Verification of phase sequence
- ✓ Operation of residual current device(s)
- ✓ Functional testing of assemblies
- ✓ Verification of voltage drop



# DOMESTIC ELECTRICAL INSTALLATION PERIODIC INSPECTION REPORT

## GUIDANCE FOR RECIPIENTS

This Periodic Inspection Report form is intended for reporting on the condition of an existing electrical 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 at the time the Report was issued.

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 contractor should have agreed these aspects with you and with any other interested parties (Licensing Authority, Insurance Company, Building Society etc) before the inspection was carried out.

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.

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