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PERIODIC INSPECTION REPORT FOR AN ELECTRICAL INSTALLATION

(REQUIREMENTS FOR ELECTRICAL INSTALLATIONS - BS 7671 [IEE WIRING REGULATIONS])

A. DETAILS OF CLIENT

Client

Address

,
,
, ,

B. PURPOSE OF REPORT

Purpose for which this report is required

C. DETAILS OF THE INSTALLATION

Occupier

Address

Postcode

Description of Premises: Domestic ☐ Commercial ☐ Industrial ☐

Other (Please state)

Estimated age of the installation ☐ years

Evidence of alterations or additions ☐ If 'yes', estimated age ☐ years

Date of last inspection

E.I.C. or previous P.I.R. Number:

Installation records available: ☐ Records held by:

D. EXTENT OF THE INSTALLATION AND LIMITATIONS OF THE INSPECTION

Extent of the electrical installation covered by this report:

Limitations:

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

E. DECLARATION

To the best of my/our knowledge and belief I/We confirm that the details recorded in this report, including the attached schedules of inspection and testing, the schedules of circuit details and associated test results (see H), and my/our observations (see F), are an accurate assessment of the condition of the electrical installation (see C), within the stated extent of the installation and limitations of inspection (see D).

I further confirm that in my/our judgement the installation is overall in condition(see I).

INSPECTED AND TESTED BY:		REVIEWED BY:	
Signature		Signature	
Name		Name	
Position			Qualifying manager for the Approved Contractor at J
Date		Date	

This form is based on the recommendations of Appendix 6 of BS 7671:2008

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F. OBSERVATIONS AND RECOMMENDATIONS

Referring to the attached schedule(s) of inspection and test results, and subject to the limitations specified at D.

There are no items adversely affecting electrical safety. ☐

or

The following observations and recommendations are made. ☐

Item No		Code #

Where observations are made, one of the following codes is to be entered against each one to indicate the action (if any) recommended:-

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

(This does not imply that the electrical installation inspected is unsafe)

Urgent remedial work recommended for items: ☐ Corrective action recommended for items: ☐

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G. SUMMARY OF THE INSPECTION

General condition of the installation:

Date of the inspection: 27/04/2009

Overall assessment of the installation:

This form is based on the recommendations of Appendix 6 of BS 7671: 2008

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H. SCHEDULES

Schedule of items inspected and items tested:	Page No 4	Additional pages including additional sources	N/A
Schedule of circuit details: Page(s)	5	Schedule of test results: Page(s)	6

The schedules identified here form an essential part of this report, and this document is valid only if accompanied by the relevant schedules.

I. NEXT INSPECTION

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

provided that any observations shown at F with a recommendation code of 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 possible.

J. CONTRACTOR DETAILS

Trading Title

Address

Postcode

Telephone number

Fax number

K. SUPPLY CHARACTERISTICS

Tick boxes and enter details as appropriate

System		Type of Live Conductors						Nature of Supply Parameters				Supply Device Characteristics	
TN-S		a.c.	✓	d.c.				Nominal voltage(s) U (1)	V	U_o (1)	V		
TN-C-S		1-phase (2 wire)		1-phase (3 wire)		2 pole		Nominal Frequency (1)	Hz			BS	
TN-C		2-phase (3 wire)				3-pole		Prospective fault current (2)(3)	kA			Type	
TT		3-phase (3 wire)		3-phase (4 wire)		other		External loop impedance Ze (3)(4)	Ohms			Nominal current rating	A
IT		Other						Number of sources				Short-circuit capacity	kA

Notes:
(1) by enquiry
(2) by enquiry or by measurement
(3) Where more than one supply, record the higher value.
(4) by measurement

L. PARTICULARS OF THE INSTALLATION

Tick boxes and enter details as appropriate

Means of Earthing		Details of Installation Earth Electrode (where applicable)			
Distributor's facility		Type of earth eg rod(s),tape etc		Location	
Installation earth electrode		Electrode resistance to earth	Ohms	Method of measurement	

Main Switch or Circuit-Breaker *(Applicable only where an RCD is suitable and is used as a main circuit breaker)				Maximum Demand	A per phase	Protective measures against electric shock:	ADS
Type:BS		Voltage rating	V				
No of Poles		Current rating	A				
Cables' material	Copper	RCD operating current	mA				
Cable's csa	mm²	RCD operating time (at 1 x I)	ms				

Main Protective Conductors							
Earthing conductor		Equipotential bonding conductors		Extraneous-conductive-parts bonded			
Conductor material	Copper	Conductor material	Copper	Water service		Gas service	
c.s.a.	mm²	c.s.a.	mm²	Oil service		Structural steel	
Continuity check		Continuity check		Lightning protection		Other incoming service(s)	

This form is based on the recommendations of Appendix 6 of BS 7671: 2008

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M. SCHEDULE OF ITEMS INSPECTED (See Section 611 of BS 7671)

Methods of protection against electric shock

Both basic and fault protection:

- [ ] (i) SELV
- [ ] (ii) PELV
- [ ] (iii) Double insulation
- [ ] (iv) Reinforced insulation

Basic protection:

- [ ] (i) Insulation of live parts
- [ ] (ii) Barriers or enclosures
- [ ] (iii) Obstacles
- [ ] (iv) Placing out of reach

Fault protection:

(i). Automatic disconnection of supply:

- [ ] Presence of earthing conductors
- [ ] Presence of circuit protective conductors
- [ ] Presence of protective bonding conductors
- [ ] Presence of supplementary bonding conductors
- [ ] Presence of earthing arrangements for combined protective and functional purposes
- [ ] Presence of adequate arrangements for alternative source(s), where applicable
- [ ] FELV
- [ ] Choice and setting of protective and monitoring devices (for fault and/or overcurrent protection)

(ii). Non-conducting location:

- [ ] Absence of protective conductors

(iii) Earth-free local equipotential bonding:

- [ ] Presence of earth-free equipotential bonding conductors

(iv) Electrical separation:

- [ ] Provided for one item of current using equipment
- [ ] Provided for more than one item of current using equipment

Additional protection:

- [ ] Presence of residual current devices
- [ ] Presence of supplementary bonding conductors

Prevention of mutual detrimental influence

- [ ] (a) Proximity of non-electrical services and other influences
- [ ] (b) Segregation of Band I and Band II cables or Band II insulation used.
- [ ] (c) Segregation of safety circuits

Identification

- [ ] (a) Presence of diagrams, instructions, circuit charts and similar information
- [ ] (b) Presence of danger notices and other warning notices
- [ ] (c) Labelling of protective devices, switches and terminals
- [ ] (d) Identification of conductors

Cables and conductors

- [ ] Selection of conductors for current carrying capacity and voltage drop
- [ ] Erection methods
- [ ] Routing of cables in prescribed zones
- [ ] Cables incorporating armour or sheath, or run within an earthed wiring system, or otherwise adequately protected against nails screws and the like
- [ ] Additional protection provided by 30mA RCD for cables in concealed walls(where required in premises not under the supervision of a skilled or instructed person
- [ ] Connection of conductors
- [ ] Presence of fire barriers, suitable seals and protection against thermal effects

General

- [ ] Presence of correct location of appropriate devices for isolation and switching
- [ ] Adequacy of access to switchgear and other equipment
- [ ] 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
- [ ] Presence of undervoltage protective devices
- [ ] Selection of equipment and protective measures appropriate to external influences
- [ ] Selection of appropriate functional switching devices

N. SCHEDULE OF ITEMS TESTED

- [ ] External earth fault loop impedance, (Ze)
- [ ] Installation earth electrode resistance, (Ra)
- [ ] Continuity of protective conductors
- [ ] Continuity of ring final circuit conductors
- [ ] Insulation resistance between live conductors
- [ ] Insulation resistance between live conductors and earth
- [ ] Protection by separation of circuits
- [ ] Protection against direct contact, by barrier or enclosure provided during erection
- [ ] Insulation of non-conducting floors or walls
- [ ] Polarity
- [ ] Earth fault loop impedance
- [ ] Verification of phase sequence
- [ ] Operation of residual current devices
- [ ] Functional testing of assemblies
- [ ] Verification of voltage drop

This form is based on the recommendations of Appendix 6 of BS 7671: 2008

All boxes must be completed.

✓ indicates that an inspection or a test was carried out and that the result was satisfactory.
X indicates that an inspection or a test was carried out and that the result was unsatisfactory.
N/A indicates that an inspection or a test was not applicable to the particular installation.
LIM indicates that, that exceptionally, a limitation agreed with the person ordering the work (as recorded in section D) prevented the inspection or test being carried out.

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SCHEDULE OF CIRCUIT DETAILS FOR THE INSTALLATION

DISTRIBUTION BOARD DETAILS

Location		Supplied from		Phases		Voltage		V	
				Associated RCD					
		Overcurrent protective device at supply to this Distribution Board							
DB No.		Type BS(EN)		Rating (A)		RCD No poles		I_n	mA

CIRCUIT DETAILS

Circuit number and phase	Circuit Designation	Type of wiring (see code below)	Reference method	Number of points served	Circuit Conductors Live (mm²)	Circuit Conductors cpc (mm²)	Maximum permitted disconnection time (s)	Overcurrent Protective Devices BS(EN) & Type No.	Overcurrent Protective Devices Type No.	Overcurrent Protective Devices Rating (A)	Overcurrent Protective Devices Short circuit capacity (kA)	RCD Rated risidual operating current (In) (mA)	Maximum permitted Zs (Ω)

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This form is based on the recommendations of Appendix 6 of BS 7671: 2008

CODES FOR TYPE OF WIRING								
A	B	C	D	E	F	G	H	O (Other - please state)
PVC/PVC cables	PVC cables in metallic conduit	PVC cables in non metallic conduit	PVC cables in metallic trunking	PVC cables in non metallic trunking	PVC/SWA cables	XLPE/SWA cables	Mineral insulated cables	N/A

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SCHEDULE OF TEST RESULTS FOR THE INSTALLATION

SOURCE DETAILS

Only required if not connected directly to the origin of the installation

☐ Confirmation of supply polarity

Zs		Operating times of associated RCD	At 1xIn
I_{pf}			At 5 In

TEST INSTRUMENTS

(Serial numbers)

Earth loop impedance	-	RCD	-
Insulation resistance	-	Other	-
Continuity	-	Other	-

TEST RESULTS

Circuit number and phase	Circuit impedances					Insulation resistance Record lower or lowest values				Polarity	Max measured Earth loop Impedance (Zs)	RCD operating times	
	Ring final circuits only (Ω)			All circuits (Ω)								at 1xIn	at 5xIn
	r_1	r_n	r_2	R_1+R_2 *	R_2 *	Phase/ Phase (MΩ)	Phase/ Neutral (MΩ)	Phase/ Earth (MΩ)	Neutral/ Earth (MΩ)	(✓)	(Ω)	(ms)	(ms)

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This form is based on the recommendations of Appendix 6 of BS 7671: 2008

* Complete column 5 or 6

TESTED BY

Signature _____ Position

Name Date

CERTIFICATE REFERENCE:
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SCHEDULE OF CIRCUIT DETAILS FOR THE INSTALLATION

DISTRIBUTION BOARD DETAILS

Location		Supplied from		Phases		Voltage		V
				Associated RCD				
		Overcurrent protective device at supply to this Distribution Board						
DB No.		Type BS(EN)		Rating (A)		RCD No poles		I_n mA

CIRCUIT DETAILS

Circuit number and phase	Circuit Designation	Type of wiring (see code below)	Reference method	Number of points served	Circuit Conductors Live (mm²)	Circuit Conductors cpc (mm²)	Maximum permitted disconnection time (s)	Overcurrent Protective Devices BS(EN) & Type No.	Overcurrent Protective Devices Type No.	Overcurrent Protective Devices Rating (A)	Overcurrent Protective Devices Short circuit capacity (kA)	RCD Rated risidual operating current (In) (mA)	Maximum permitted Zs (Ω)

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CODES FOR TYPE OF WIRING								
A	B	C	D	E	F	G	H	O (Other - please state)
PVC/PVC cables	PVC cables in metallic conduit	PVC cables in non metallic conduit	PVC cables in metallic trunking	PVC cables in non metallic trunking	PVC/SWA cables	XLPE/SWA cables	Mineral insulated cables	

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SCHEDULE OF TEST RESULTS FOR THE INSTALLATION

SOURCE DETAILS

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Zs		Operating times of associated RCD	At 1xIn
I_{pf}			At 5 In

TEST INSTRUMENTS

(Serial numbers)

Earth loop impedance	-	RCD	-
Insulation resistance	-	Other	-
Continuity	-	Other	-

TEST RESULTS

Circuit number and phase	Circuit impedances					Insulation resistance Record lower or lowest values				Polarity	Max measured Earth loop Impedance (Zs)	RCD operating times	
	Ring final circuits only (Ω)			All circuits (Ω)								at 1xIn	at 5xIn
	r_1	r_n	r_2	R_1+R_2 *	R_2 *	Phase/ Phase (MΩ)	Phase/ Neutral (MΩ)	Phase/ Earth (MΩ)	Neutral/ Earth (MΩ)	(✓)	(Ω)	(ms)	(ms)

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* Complete column 5 or 6

TESTED BY

Signature _____ Position

Name Date

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SCHEDULE OF CIRCUIT DETAILS FOR THE INSTALLATION

DISTRIBUTION BOARD DETAILS

Location		Supplied from			Phases		Voltage		V
					Associated RCD				
		Overcurrent protective device at supply to this Distribution Board							
DB No.		Type BS(EN)		Rating (A)		RCD No poles		I_n	mA

CIRCUIT DETAILS

Circuit number and phase	Circuit Designation	Type of wiring (see code below)	Reference method	Number of points served	Circuit Conductors		Maximum permitted disconnection time	Overcurrent Protective Devices				RCD	Maximum permitted Zs
					Live (mm²)	cpc (mm²)	(s)	BS(EN) & Type No.	Type No.	Rating (A)	Short circuit capacity (kA)	Rated risidual operating current (In) (mA)	(Ω)

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SOURCE DETAILS

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Zs		Operating times of associated RCD	At 1xIn
I_{pf}			At 5 In

TEST INSTRUMENTS

(Serial numbers)

Earth loop impedance	-	RCD	-
Insulation resistance	-	Other	-
Continuity	-	Other	-

TEST RESULTS

Circuit number and phase	Circuit impedances					Insulation resistance Record lower or lowest values				Polarity	Max measured Earth loop Impedance (Zs)	RCD operating times	
	Ring final circuits only (Ω)			All circuits (Ω)								at 1xIn	at 5xIn
	r_1	r_n	r_2	R_1+R_2 *	R_2 *	Phase/ Phase (MΩ)	Phase/ Neutral (MΩ)	Phase/ Earth (MΩ)	Neutral/ Earth (MΩ)	(✓)	(Ω)	(ms)	(ms)

SPECIMEN

This form is based on the recommendations of Appendix 6 of BS 7671: 2008

* Complete column 5 or 6

TESTED BY

Signature _____ Position

Name Date

CERTIFICATE REFERENCE:
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SCHEDULE OF CIRCUIT DETAILS FOR THE INSTALLATION

DISTRIBUTION BOARD DETAILS

Location		Supplied from		Phases		Voltage		V
				Associated RCD				
		Overcurrent protective device at supply to this Distribution Board						
DB No.		Type BS(EN)		Rating (A)		RCD No poles		I_n mA

CIRCUIT DETAILS

Circuit number and phase	Circuit Designation	Type of wiring (see code below)	Reference method	Number of points served	Circuit Conductors Live (mm²)	Circuit Conductors cpc (mm²)	Maximum permitted disconnection time (s)	Overcurrent Protective Devices BS(EN) & Type No.	Overcurrent Protective Devices Type No.	Overcurrent Protective Devices Rating (A)	Overcurrent Protective Devices Short circuit capacity (kA)	RCD Rated risidual operating current (In) (mA)	Maximum permitted Zs (Ω)

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SCHEDULE OF TEST RESULTS FOR THE INSTALLATION

SOURCE DETAILS

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☐ Confirmation of supply polarity

Zs		Operating times of associated RCD	At 1xIn
I_{pf}			At 5 In

TEST INSTRUMENTS

(Serial numbers)

Earth loop impedance	-	RCD	-
Insulation resistance	-	Other	-
Continuity	-	Other	-

TEST RESULTS

Circuit number and phase	Circuit impedances					Insulation resistance Record lower or lowest values				Polarity	Max measured Earth loop Impedance (Zs)	RCD operating times	
	Ring final circuits only (Ω)			All circuits (Ω)								at 1xIn	at 5xIn
	r_1	r_n	r_2	R_1+R_2 *	R_2 *	Phase/ Phase (MΩ)	Phase/ Neutral (MΩ)	Phase/ Earth (MΩ)	Neutral/ Earth (MΩ)	(✓)	(Ω)	(ms)	(ms)

SPECIMEN

This form is based on the recommendations of Appendix 6 of BS 7671: 2008

* Complete column 5 or 6

TESTED BY

Signature _____ Position

Name Date

F. OBSERVATIONS AND RECOMMENDATIONS (Continued)

Continued from Section F of page 2 of the Report.

Item No		Code #

F. OBSERVATIONS AND RECOMMENDATIONS (Continued)

Continued from Section F of page 2 of the Report.

Item No		Code #

F. OBSERVATIONS AND RECOMMENDATIONS (Continued)

Continued from Section F of page 2 of the Report.

Item No		Code #

PERIODIC INSPECTION REPORT

GUIDANCE FOR RECIPIENTS (to be appended to the Report)

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 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 agree 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 itis 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'.

This Report is only valid if a Schedule of Inspections and a Schedule of Test Results are appended.