NICEIC APPROVED CONTRACTOR

This report is not valid if the serial number has been defaced or altered

IPR2/ 0288922

PERIODIC INSPECTION REPORT FOR AN ELECTRICAL INSTALLATION

Issued in accordance with *British Standard 7671 – Requirements for Electrical Installations* by an Approved Contractor or Conforming Body enrolled with NICEIC, Warwick House, Houghton Hall Park, Houghton Regis, Dunstable LU5 5ZX

Original (To the person ordering the work)

A. DETAILS OF THE CLIENT

Client: Linkinhorne Parish Council

Address: The Public Toilets
Upton Cross
Liskeard
PL14 5AX

B. PURPOSE OF THE REPORT

This Periodic Inspection Report must be used only for reporting on the condition of an existing installation.

Purpose for which this report is required: To establish the safety of the installation

C. DETAILS OF THE INSTALLATION

Occupier: As Above

Address:

Postcode:

Description of premises: Domestic ☐ Commercial ☐ Industrial ☐

Other: (Please state) Public toilets

Estimated age of the electrical installation: 30 years

Evidence of alterations or additions: Yes If yes, estimated age: 5 years

Date of previous inspection:

Electrical Installation Certificate No or previous Periodic Inspection Report No:

Records of installation available:

Records held by:

D. EXTENT OF THE INSTALLATION AND LIMITATIONS OF THE INSPECTION AND TESTING

Extent of the electrical installation covered by this report:

All circuits isted on the attached Schedule

Agreed limitations (including the reasons), if any, on the inspection and testing:

None

This inspection has been carried out in accordance with BS 7671, as amended. Cables concealed within trunking and conduits, or cables and conduits concealed under floors, in inaccessible roof spaces and generally within the fabric of the building or underground, have not been visually inspected.

E. 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 (see C), having exercised reasonable skill and care when carrying out the inspection and testing, hereby declare that the information in this report, including the observations (see F) and the attached schedules (see H), 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 (see D).

I/We further declare that in my/our judgement, the said installation was overall in ✥ a satisfactory **condition (see G) at the time the inspection was carried out, and that it should be further inspected as recommended (see I).**

✥ *(Insert 'a satisfactory' or 'an unsatisfactory', as appropriate)*

INSPECTION, TESTING AND ASSESSMENT BY:

Signature: A J Davy

Name: (CAPITALS) Andrew Davy

Position: Director

Date: 06/12/2013

REPORT REVIEWED AND CONFIRMED BY: † *See note below*

Signature:

Name: (CAPITALS)

(Registered Qualified Supervisor for the Approved Contractor at J)

Date: 06/12/2013

† *This Periodic Inspection Report should be reviewed and confirmed by the registered Qualified Supervisor for the Approved Contractor responsible for issuing the Report.*

Please see the 'Notes for Recipients' on the reverse of this page.

APPROVED CONTRACTOR

This report is not valid if the serial number has been defaced or altered **IPR2/** 0288922

Original (To the person ordering the work)

F. OBSERVATIONS AND RECOMMENDATIONS FOR ACTIONS TO BE TAKEN

Referring to the attached schedules of inspection and test results, and subject to the limitations at D:

There are no items adversely affecting electrical safety. ✓

or

The following observations and recommendations are made.

Item No		Code †
1	No previous test results available	
2	Earth rod resistance reading of 330 ohms DRY Conditions	
3	Earth bonding to water pipe not within 600mm of incomming position	
4	This installation contains mixed colours	

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

Please see the reverse of this page for guidance regarding the recommendations.

Urgent remedial work recommended for items:

Corrective action(s) recommended for items:

G. SUMMARY OF THE INSPECTION

General condition of the installation:

the installation is safe & satisfactory

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

Date(s) of the inspection:

Overall assessment of the installation: **Satisfactory**

*(Entry should read either **'Satisfactory'** or **'Unsatisfactory'**)*

Please see the 'Guidance for Recipients on the Recommendation Codes' on the reverse of this page.

NICEIC APPROVED CONTRACTOR

This report is not valid if the serial number has been defaced or altered

IPR2/ 0288922

Original (To the person ordering the work)

H. SCHEDULES AND ADDITIONAL PAGES

Schedule of Items Inspected and Schedules of Items Tested: Page No 4

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

Schedule of Circuit Details for the Installation: Page No(s) 5

Schedule of Test Results for the Installation: Page No(s) 6

The pages identified here form an essential part of this report. The report is valid only if accompanied by all the schedules and additional pages identified above.

I. NEXT INSPECTION

I/We recommend that this installation is further inspected and tested after an interval of not more than 1 year

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

provided that any items at F which have been attributed a Recommendation Code 1 and Code 2 (*requires urgent attention*) are remedied without delay and as soon as possible respectively. Items which have been attributed a Recommendation Code 3 should be actioned as soon as practicable (see F).

J. DETAILS OF NICEIC APPROVED CONTRACTOR

Trading Title: Andrew Davy Electrical (S.W.) Ltd

Address: Measham, Rilla Mill, Callington, Cornwall, Postcode: PL17 7PQ

Telephone number: 01579 362789

Fax number:

Enrolment number: (Essential information) 0 1 4 6 6 9

Branch number: (if applicable)

K. SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

Tick boxes and enter details, as appropriate

✧ System Type(s)		✧ Number and Type of Live Conductors				Nature of Supply Parameters				✧ Characteristics of Primary Supply Overcurrent Protective Device(s)	
TN-S		a.c.	✓	d.c.		Nominal voltage(s): $U^{(1)}$	230 V	U_o (1)	230 V	BS(EN)	BS1361
TN-C-S		1-phase (2 wire)	✓	1-phase (3 wire)		2 pole		Nominal frequency, $f^{(1)}$	50 Hz	Type	Gg
TN-C		2-phase (3 wire)				3-pole		Prospective fault current, I_{pf} (2)(3)	LIM kA	Rated current	60 A
TT	✓	3-phase (3 wire)		3-phase (4 wire)		other		External earth fault loop impedance, Z_e (2)(4)	19.4 Ω	Short-circuit capacity	16 kA
IT		Other	Please state					Number of supplies	1		

Notes:
(1) by enquiry
(2) by enquiry or by measurement
(3) where more than one supply, record the higher or highest values
(4) by measurement

L. PARTICULARS OF INSTALLATION AT THE ORIGIN

Tick boxes and enter details, as appropriate

✧ Means of Earthing

Distributor's facility: NA

Installation earth electrode: Yes

Details of Installation Earth Electrode (where applicable)

Type (eg rod(s), tape etc): Earth Rods or Pipes

Location: by ladies entrance door

Electrode resistance, R_A: 530 (Ω)

Method of measurement: Measured

✧ Main Switch or Circuit-Breaker

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

Maximum Demand (Load): 5 amps kVA / Amps *Delete as appropriate

Protective measures against electric shock: ADOS

Type: BS(EN)	EN61008	Voltage rating	230 V	Earthing conductor		Main protective bonding conductors		Bonding of extraneous conductive parts (✓)			
No of Poles	2	Rated current, I_n	60 A	Conductor material	Copper	Conductor material	Copper	Water service	✓	Gas service	
Supply conductors material	Copper	RCD operating current, $I_{\Delta n}$*	30 mA	Conductor csa	16 mm²	Conductor csa	10 mm²	Oil service		Structural steel	
Supply conductors csa	16 mm²	RCD operating time (at $I_{\Delta n}$)*	30 ms	Continuity check	✓ (✓)	Continuity check	✓ (✓)	Lightning protection		Other incoming service(s)	

✧ *Where a number of sources are available to supply the installation, and where the data given for the primary source may differ from other sources, a separate sheet must be provided which identifies the relevant information relating to each additional source.*

Please see the 'Notes for Recipients' on the reverse of this page.

SCHEDULE OF ITEMS INSPECTED

† See note below

PROTECTIVE MEASURES AGAINST ELECTRIC SHOCK

Basic and fault protection

Extra low voltage

N/A	SELV	N/A	PELV

Double or reinforced insulation

✓	Double or Reinforced Insulation

Basic protection

✓	Insulation of live parts	N/A	Barriers or enclosures
N/A	Obstacles**	N/A	Placing out of reach**

Fault protection

Automatic disconnection of supply

✓	Presence of earthing conductor
✓	Presence of circuit protective conductors
✓	Presence of main protective bonding conductors
✓	Presence of earthing arrangements for combined protective and functional purposes
N/A	Presence of adequate arrangements for alternative source(s), where applicable
N/A	FELV
N/A	Choice and setting of protective and monitoring devices (for fault protection and/or overcurrent protection)

Non-conducting location**

✓	Absence of protective conductors

Earth-free equipotential bonding**

N/A	Presence of earth-free equipotential bonding

Electrical separation

*	For **one** item of current-using equipment
N/A	For **more** than one item of current-using equipment**

Additional protection

✓	Presence of residual current device(s)
N/A	Presence of supplementary bonding conductors

*** For use in controlled supervised/conditions only***

Prevention of mutual detrimental influence

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

Identification

✓	Presence of diagrams, instructions, circuit charts and similar information
×	Presence of danger notices and other warning notices
✓	Labelling of protective devices, switches and terminals
✓	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 earthed armour or sheath or run in an earthed wiring system, or otherwise protected against nails, screws and the like
✓	Additional protection by 30mA RCD for cables concealed in walls (where required, in premises not under the supervision of skilled or instructed persons)
✓	Connection of conductors
N/A	Presence of fire barriers, suitable seals and protection against thermal effects

General

✓	Presence and correct location of appropriate devices for isolation and switching
✓	Adequacy of access to switchgear and other equipment
N/A	Particular protective measures for special installations and locations
✓	Connection of single-pole devices for protection or switching in line conductors only
✓	Correct connection of accessories and equipment
N/A	Presence of undervoltage protective devices
✓	Selection of equipment and protective measures appropriate to external influences
✓	Selection of appropriate functional switching devices

SCHEDULE OF ITEMS TESTED

† See note below

✓	External earth fault loop impedance, Z_e
✓	Installation earth electrode resistance, R_A
✓	Continuity of protective conductors
N/A	Continuity of ring final circuit conductors
✓	Insulation resistance between live conductors
✓	Insulation resistance between live conductors and Earth
✓	Protection by separation of circuits
✓	Basic protection by barrier or enclosure provided during erection
N/A	Insulation of non-conducting floors or walls
✓	Polarity
✓	Earth fault loop impedance, Z_s
N/A	Verification of phase sequence
✓	Operation of residual current devices
✓	Functional testing of assemblies
✓	Verification of voltage drop

† ***All boxes must be completed.***

'✓' *indicates that an inspection or a test was carried out and that the result was* ***satisfactory***

'✗' *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.*

NICEIC APPROVED CONTRACTOR

This report is not valid if the serial number has been defaced or altered IPR2/ 0288922

Original (To the person ordering the work)

SCHEDULE OF CIRCUIT DETAILS FOR THE INSTALLATION

TO BE COMPLETED IN EVERY CASE		TO BE COMPLETED ONLY IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION*						
Location of distribution board:	Electrical Cupboard	Supply to distribution board is from:		No of phases:		Nominal voltage:		V
		Overcurrent protective device for the distribution circuit:				Associated RCD (if any): BS(EN)		
Distribution board designation:	LP1	Type: BS(EN)		Rating:	A	RCD No of poles:	$I_{\Delta n}$	mA

CIRCUIT DETAILS

Circuit number and phase	Circuit designation	Type of wiring (see code below)	Reference method †	Number of points served	Circuit conductors: csa		Max. disconnection time permitted by BS 7671 (s)	Overcurrent protective devices				RCD	Maximum Z_s permitted by BS 7671 (Ω)
					Live (mm²)	cpc (mm²)		BS (EN) †	Type No	Rating (A)	Short-circuit capacity (kA)	Operating current, $I_{\Delta n}$ (mA)	
	Main switch												
	Main Switch												
1	2 Gang Socket in mains cupboard	A	100	1	2.5	1	0.4	EN60898	B	16	6	30	1666
2	Lighting	A	100	4	1	1	0.4	EN60898	B	6	6	30	1666

† See Table 4A2 of Appendix 4 of BS 7671

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	

* In such cases, details of the distribution (sub-main) circuit(s), together with the test results for the circuit(s), must also be provided, on continuation schedules.

See next page for Schedule of Test Results

NICEIC APPROVED CONTRACTOR

This report is not valid if the serial number has been defaced or altered

IPR2/ 0288922

Original (To the person ordering the work)

SCHEDULE OF TEST RESULTS FOR THE INSTALLATION

TO BE COMPLETED ONLY IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION			
Characteristics at this distribution board			
	Confirmation of supply polarity		
* See note below			
Z_s *	Ω	Operating times of associated RCD (if any) At $I_{\Delta n}$	ms
I_{pf} *	kA	At $5I_{\Delta n}$ (if applicable)	ms

Test instruments (serial numbers) used:			
Earth fault loop impedance		RCD	
Insulation resistance		Other	
Continuity		Other	

TEST RESULTS

Circuit number and phase	Circuit impedances (Ω)					Insulation resistance † Record lower or lowest value				Polarity	Maximum measured earth fault loop impedance, Z_s * See note below	RCD operating times	
	Ring final circuits only (measured end to end)			All circuits (At least one column to be completed)		Line/Line †	Line/Neutral †	Line/Earth †	Neutral/Earth			at $I_{\Delta n}$	at $5I_{\Delta n}$ (if applicable)
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$R_1 + R_2$	R_2	(MΩ)	(MΩ)	(MΩ)	(MΩ)	(✓)	(Ω)	(ms)	(ms)
1				02			+100	+100	+100	✓	19.4	18	7
2				09			+100	+100	+100	✓	19.9	18	7

* Note: Where the installation can be supplied by more than one source, such as a primary source (eg public supply) and a secondary source (eg standby generator), the higher or highest values must be recorded.

TESTED BY

Signature:	A J Davy	Position:	Director
Name: (CAPITALS)	Andrew Davy	Date of testing:	6/12/2013

See previous page for Schedule of Circuit Details