

Nicholson Electrical Ltd

ELECTRICAL INSTALLATION CERTIFICATE

(Requirements for Electrical Installations – BS 7671 IEE Wiring Regulations)

DETAILS OF THE CLIENT

Client/
Address:

Cormac Solutions Ltd, Castle Canyke Road, Bodmin, PL31 1DZ

DETAILS OF THE INSTALLATION

Address:

New Cut Car Park - Redruth TR15 1AF

New

Extent of the installation covered
by this Certificate:

Complete electrical installation

An
Addition

Yes

An
Alteration

Yes

DESIGN

I/We, being the person(s) responsible for the design of the electrical installation (as indicated by my/our signature(s) below, particulars of which are described above, having exercised reasonable skill and care when carrying out the design, hereby Certify that the design work for which I/We have been responsible is, to the best of my/our knowledge and belief, in accordance with BS 7671:2008 amended to 2013 except for the departures, if any, detailed as follows:

Details of departures from BS 7671, as amended (Regulations 120.3.120.4)

See notes

The extent of liability of the signatory/signatories is limited to the work described above as the subject of this certificate. For the DESIGN of the installation:

** (Where there is divided responsibility for the design)

Signature	PR Nicholson	Date	17/12/14	Name (CAPITALS)	PAUL NICHOLSON	Designer 1
Signature		Date		Name (CAPITALS)		Designer 2 **

CONSTRUCTION

I/We, being the person(s) responsible for the construction of the electrical installation (as indicated by my/our signature(s) below, particulars of which are described above, having exercised reasonable skill and care when carrying out the construction, hereby Certify that the construction work for which I/We have been responsible is, to the best of my/our knowledge and belief, in accordance with BS 7671:2008 amended to 2013 except for the departures, if any, detailed as follows:

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See notes

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For the CONSTRUCTION of the installation:

Signature	A Withers	Date	16/12/2014	Name (CAPITALS)	AARON WITHERS	Constructor
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INSPECTION AND TESTING

I/We, being the person(s) responsible for the inspection and testing of the electrical installation (as indicated by my/our signature(s) below, particulars of which are described above, having exercised reasonable skill and care when carrying out the inspection and testing, hereby Certify that the inspection and testing work for which I/We have been responsible is, to the best of my/our knowledge and belief, in accordance with BS 7671:2008 amended to 2013 except for the departures, if any, detailed as follows:

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For the INSPECTION AND TESTING of the installation:

Signature	A Withers	Date	16/12/2014	Name (CAPITALS)	AARON WITHERS	INSPECTOR
Reviewed by						
Signature	PR Nicholson	Date	17/12/2014	Name (CAPITALS)	PAUL NICHOLSON	Qualified Supervisor

DESIGN, CONSTRUCTION, INSPECTION AND TESTING

* This box is to be completed only where the design, construction, inspection and testing have been the responsibility of one person.

I, being the person responsible for the design, construction, inspection and testing of the electrical installation (as indicated by my signature below), particulars of which are described above, having exercised reasonable skill and care when carrying out the design, construction, inspection and testing, hereby CERTIFY that the inspection and testing work for which I have been responsible is, to the best of my knowledge and belief, in accordance with BS 7671:2008 amended to 2013 except for the departures, if any, detailed as follows:

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See notes

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For the DESIGN, CONSTRUCTION, and the INSPECTION AND TESTING of the installation.

Signature	<i>A Withers</i>	Date	16/12/2014	Name (CAPITALS)	AARON WITHERS	INSPECTOR
Reviewed by						
Signature	<i>PR Nicholson</i>	Date	17/12/2014	Name (CAPITALS)	PAUL NICHOLSON	Qualified Supervisor

PARTICULARS OF THE ORGANISATION(S) RESPONSIBLE FOR THE ELECTRICAL INSTALLATION

DESIGN (1) Organisation	Nicholson Electrical Ltd	Address:	33 Century Close St Austell Cornwall PL25 3UY	Registration No. (Where appropriate)	6 0 3 4 8 7 0
				Branch number (If applicable)	0 0 1
DESIGN (2) Organisation		Address:		Registration No. (Where appropriate)	
				Branch number (If applicable)	
CONSTRUCTION Organisation	Nicholson Electrical Ltd	Address:	33 Century Close St Austell Cornwall PL25 3UY	Registration No. (Where appropriate)	6 0 3 4 8 7 0
				Branch number (If applicable)	0 0 1
INSPECTION & TESTING Organisation	Nicholson Electrical Ltd	Address:	33 Century Close St Austell Cornwall PL25 3UY	Registration No. (Where appropriate)	6 0 3 4 8 7 0
				Branch number (If applicable)	0 0 1

SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

System Types	Number and types of live conductors				Nature of supply Parameters		
	A.C.	√	D.C.		Nominal Voltage U/Uo	230/230	Volts
TN-S					Nominal Frequency	50	Hz
TN-C-S	√	1-Phase 2 wire	√	1-Phase 3 wire	2 pole		
TN-C		2-Phase 3 wire			3 pole		
TT		3-Phase 3 wire		3-Phase 4 wire	Other		
IT		Other			External Ze	0.31	Ohms
					Number of supplies	1	

CHARACTERISTICS OF THE SUPPLY OVERCURRENT PROTECTIVE DEVICE

Type BS/EN	BS3161 Fuse HBC - Type 2	Nominal current rating	80	Amps	Short circuit capacity	16	KA
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PARTICULARS OF INSTALLATION AT THE ORIGIN

Means of earthing		Details of installation Earth Electrode (where applicable)									
Supplier's facility	√	Type: (e.g. rods, tape ect)	N/A		Location	N/A					
Installation earth electrode	N/A	Electrode resistance, RA	N/A	Ohms	Method of measurement	N/A					
Maximum Demand (Load) Per phase	80	Amps	Method of protection against indirect contact			ADS					
Main Switch or circuit-Breaker											
Type BSEN	60947-3 Isolator	No. Of poles	2	Voltage rating	230 V	Current rating	100 A	RCD I _{An}	N/A mA	RCD at I _{An}	N/A mS
Supply conductors											
Conductor material	Copper			Conductor CSA	25 mm ²						
Earthing conductors											
Conductor material	Copper			Conductor csa	16 mm ²	Continuity check	√	(✓) OK			
Main equipotential bonding conductors											
Conductor material	Copper			Conductor csa	10 mm ²	Continuity check	√	(✓) OK			
Bonding of extraneous conductive parts (✓)											
Water service	√	Gas service	N/A	Oil service	N/A	Structural steel	N/A	Lightning protection	N/A	Other services	N/A
										List in report notes	

COMMENTS ON THE EXISTING INSTALLATION

Additional information and report notes

NEXT INSPECTION

I/We the designer(s), recommend that this installation is further inspected and tested after an interval of not more than **5 Years**

SCHEDULE OF ITEMS INSPECTED

PROTECTIVE MEASURES AGAINST ELECTRIC SHOCK

Basic and fault protection

N/A

SELV

✓

N/A

PELV

✓

Basic protection

✓

Insulation of live parts

✓

✓

Barriers and enclosures

✓

N/A

Obstacles

✓

N/A

Placing out of reach

✓

✓

Double or Reinforced insulation

✓

Fault Protection (Automatic disconnection of supply)

✓

Presence of earthing conductors

✓

✓

Presence of circuit protection conductors

✓

✓

Presence of main equipotential conductors

✓

✓

Presence of earthing arrangements for combined protective and functional purposes

✓

✓

Presence of adequate arrangements for alternative source(s), where applicable

✓

✓

PELV

✓

✓

Choice and setting of protective and monitoring devices

✓

N/A

Non-conducting location:

Absence of protective conductors

General

Adequacy of access to switchgear and other equipment

N/A

Earth free equipotential bonding:

Presence of earth free equipotential bonding conductors

Presence and correct location of appropriate devices for isolation and switching

N/A

Electrical separation

for one item of current using equipment

Particular protective measures for special installations and locations

N/A

Electrical separation

for more than one item of current using equipment

Connection of single pole devices for protection or switching in phase conductors only

N/A

Additional protection

(For use in controlled supervised conditions only)

Correct connection of accessories and equipment

✓

Presence of residual current device(s)

N/A

Presence of under voltage protective devices

✓

Presence of supplementary bonding conductors

✓

Selection of equipment and protective measures appropriate to external influences

✓

Selection of appropriate functional switching devices

Prevention of mutual detrimental influences

Proximity of non-electrical services and other influences

Segregation of band I and band II circuits or band II insulation used

Segregation of safety circuits

Identification

Presence of diagrams, instructions, circuit charts and similar information

Presence of danger notices and other warning signs

Labelling of protective devices, switches and terminals

Identification of conductors

Cables and conductors

Selection of conductors for current-carrying capacity and volt drop

Erection methods

Routing of cables in prescribed zones

Cables incorporating earthed armour or sheath or run in an earthed wiring system or protected against nails, screws and the like

Additional protection by a 30mA for cables concealed in walls (where required in premises not under the supervision of skilled or instructed persons)

Connection of conductors

Presence of fire barriers, suitable seals and protection against thermal effects

General

Presence and correct location of appropriate devices for isolation and switching

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 under voltage protective devices

Selection of equipment and protective measures appropriate to external influences

Selection of appropriate functional switching devices

✓

To indicate that an inspection or test has been carried out and the result is satisfactory

X

To indicate that an inspection or test has been carried out and the result was unsatisfactory

LIM

To indicate that an inspection or test has not been carried out following agreed limitations of inspection or testing

N/A

To indicate the inspection or test is not applicable

N/V

To indicate that details could not be verified

SCHEDULE OF ITEMS TESTED

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

SCHEDULE OF ADDITIONAL RECORDS (See attached schedule)

Note: Additional page(s) must be identified by the Electrical Installation Certificate serial number and page number(s).

Page No(s) : N/A

TEST INSTRUMENTS USED

Instrument Serial No(s)	KT64 - Serial No. 8037327
Earth fault loop impedance	KT64 - Serial No. 8037327
Insulation resistance	KT64 - Serial No. 8037327
Continuity	KT64 - Serial No. 8037327
RCD	KT64 - Serial No. 8037327
Other	Socket Tester

NOTES FOR RECIPIENT

THIS CERTIFICATE IS A VALUABLE DOCUMENT AND SHOULD BE RETAINED FOR FUTURE REFERENCE

This safety certificate has been issued to confirm that the electrical installation work to which it relates has been designed, constructed and inspected and tested in accordance with British Standard 7671 (The IEE Wiring regulations).

You should have received an original Certificate and the contractor should have retained a duplicate Certificate. If you were the person ordering the work, but not the owner of the installation, you should pass this Certificate, or a full copy of it including the schedules immediately to the user.

The original certificate should be retained in a safe place and be shown to any person inspecting or undertaking further work on the electrical installation in the future. If you later vacate the property, this Certificate will demonstrate to the new owner that the electrical installation complied with the requirements of British Standard 7671 at the time the Certificate was issued was issued. The Construction (Design and Management) Regulations require that for a project covered by those Regulations, a copy of this Certificate, together with schedules is included in the health and safety documentation.

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

This Certificate is intended to be issued only for a new electrical installation or for new work associated with an alteration or addition to an existing installation. It should not have been issued for the inspection of an existing electrical installation. A "Periodic Inspection Report" should be issued for such a periodic inspection.

The Certificate is only valid if a Schedule of Inspection of Test Results is appended.

Nicholson Electrical Ltd - DISTRIBUTION BOARD DETAILS

DB ref.:	DB1	Z _s at this board (Ω):	0.31	I _{pf} at this board (KA):	0.61	Main switch type BSEN reference:	60947-3 Isolator	Rating:	100 Amps	Supply conductors:	25 mm ²	Earth:	16 mm ²
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Distribution board location:	Service Cupboard	Supplied from:	Mains	No. Of phases:	Single	Supply protective device type: BSEN reference:	BS3161 Fuse HBC - Type 2	Rating:	80 Amps
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CIRCUIT DETAILS

TEST RESULTS

Circuit Reference	Circuit designation	Reference method	Type of wiring (see code below)	Number of points served	Circuit conductors		Max. Disconnection time permitted (s)	Type BS EN	Over-current devices		RCD	I _{Δn} mA	Maximum permitted Z _s Ω	Circuit impedances Ω				Insulation resistance				Polarity	RCD			
					Live (mm ²)	cpc (mm ²)			Rating (A)	Short circuit capacity (KA)				Ring final circuits only (Measured end to end)		All circuits (At least one column to be completed)		Phase /Phase M Ω	Phase /Neutral M Ω	Phase /Earth M Ω	Neutral /Earth M Ω					
														r ₁	r _n	r ₂	R ₁ + R ₂	R ₂								
1	Temp Supply	A	A	1	10	6	0.4	61009 Type B	32	6	30	1.15	N/A	N/A	N/A	Lim	N/A	1999	1999	1999	✓	Lim	✓	23	23	
2	Service area sockets	A	A	3	2.5	1.5	0.4	61009 Type B	16	6	30	2.30	N/A	N/A	N/A	0.09	N/A	N/A	1999	1999	1999	✓	0.44	✓	19	9
3	Lights passage	A	A	1	1.5	1.0	0.4	61009 Type B	6	6	30	6.13	N/A	N/A	N/A	0.11	N/A	N/A	1999	1999	1999	✓	0.48	✓	21	21
4	Lights ladies	A	A	3	1.5	1.0	0.4	61009 Type B	6	6	30	6.13	N/A	N/A	N/A	0.41	N/A	N/A	1999	1999	1999	✓	0.7	✓	38	16
5	Lights service area	A	A	2	1.5	1.0	0.4	61009 Type B	6	6	30	6.13	N/A	N/A	N/A	0.36	N/A	N/A	1999	1999	1999	✓	0.75	✓	20	18
6	Lights gents	A	A	6	1.5	1.0	0.4	61009 Type B	6	6	30	6.13	N/A	N/A	N/A	0.58	N/A	N/A	1999	1999	1999	✓	0.89	✓	37	18
7	Water / Unknown	N/A	N/A	N/A	2.5	1.5	0.4	61009 Type B	20	6	30	1.84	N/A	N/A	N/A	N/a	N/A	N/A	1999	1999	1999	✓	N/A	✓	22	29
8	Ladies hand dryer	A	A	1	2.5	1.5	0.4	61009 Type B	20	6	30	1.84	N/A	N/A	N/A	0.29	N/A	N/A	1999	1999	1999	✓	0.58	✓	22	18
9	Gents hand dryer	A	A	1	2.5	1.5	0.4	61009 Type B	16	6	30	2.30	N/A	N/A	N/A	0.31	N/A	N/A	1999	1999	1999	✓	0.55	✓	27	15
10	Ladies lights	A	A	3	1.5	1.0	0.4	61009 Type B	6	6	30	6.13	N/A	N/A	N/A	0.32	N/A	N/A	1999	1999	1999	✓	0.63	✓	29	19
11	Disabled lights	A	A	2	1.5	1.0	0.4	61009 Type B	6	6	30	6.13	N/A	N/A	N/A	0.47	N/A	N/A	1999	1999	1999	✓	0.89	✓	19	18
12	Outside lights	A	A	5	1.5	1.0	0.4	61009 Type B	6	6	30	6.13	N/A	N/A	N/A	0.63	N/A	N/A	1999	1999	1999	✓	0.79	✓	25	20
13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			

CODES FOR TYPES 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	

Nicholson Electrical Ltd

ELECTRICAL INSTALLATION CERTIFICATE

(Requirements for Electrical Installations – BS 7671 IEE Wiring Regulations)

DETAILS OF THE CLIENT

Client/
Address:

Cormac Solutions Ltd, Castle Canyke Road, Bodmin, PL31 1DZ

DETAILS OF THE INSTALLATION

Address:

New Cut Car Park - Redruth TR15 1AF

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Extent of the installation covered
by this Certificate:

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Addition

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An
Alteration

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** (Where there is divided responsibility for the design)

Signature	PR Nicholson	Date	17/12/14	Name (CAPITALS)	PAUL NICHOLSON	Designer 1
Signature		Date		Name (CAPITALS)		Designer 2 **

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Signature	A Withers	Date	16/12/2014	Name (CAPITALS)	AARON WITHERS	Constructor
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Reviewed by						
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Reviewed by						
Signature	<i>PR Nicholson</i>	Date	17/12/2014	Name (CAPITALS)	PAUL NICHOLSON	Qualified Supervisor

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TN-C		2-Phase 3 wire			3 pole		
TT		3-Phase 3 wire		3-Phase 4 wire	Other		
IT		Other			External Ze	0.31	Ohms
					Number of supplies	1	

CHARACTERISTICS OF THE SUPPLY OVERCURRENT PROTECTIVE DEVICE

Type BS/EN	BS3161 Fuse HBC - Type 2	Nominal current rating	80	Amps	Short circuit capacity	16	KA
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PARTICULARS OF INSTALLATION AT THE ORIGIN

Means of earthing		Details of installation Earth Electrode (where applicable)										
Supplier's facility	√	Type: (e.g. rods, tape ect)	N/A	Location	N/A							
Installation earth electrode	N/A	Electrode resistance, RA	N/A	Ohms	Method of measurement	N/A						
Maximum Demand (Load) Per phase	80	Amps	Method of protection against indirect contact			ADS						
Main Switch or circuit-Breaker												
Type BSEN	60947-3 Isolator	No. Of poles	2	Voltage rating	230	V	Current rating	100	A			
RCD I _{An}	N/A	mA	RCD at I _{An}	N/A	mS							
Supply conductors												
Conductor material	Copper			Conductor CSA	25	mm ²						
Earthing conductors												
Conductor material	Copper			Conductor csa	16	mm ²	Continuity check	√	(√) OK			
Main equipotential bonding conductors												
Conductor material	Copper			Conductor csa	10	mm ²	Continuity check	√	(√) OK			
Bonding of extraneous conductive parts (✓)												
Water service	√	Gas service	N/A	Oil service	N/A	Structural steel	N/A	Lightning protection	N/A	Other services	N/A	List in report notes

COMMENTS ON THE EXISTING INSTALLATION

Additional information and report notes

NEXT INSPECTION

I/We the designer(s), recommend that this installation is further inspected and tested after an interval of not more than **5 Years**

SCHEDULE OF ITEMS INSPECTED

PROTECTIVE MEASURES AGAINST ELECTRIC SHOCK

Basic and fault protection

N/A

SELV

✓

N/A

PELV

✓

Basic protection

✓

Insulation of live parts

✓

✓

Barriers and enclosures

✓

N/A

Obstacles

✓

N/A

Placing out of reach

✓

✓

Double or Reinforced insulation

✓

Fault Protection (Automatic disconnection of supply)

✓

Presence of earthing conductors

✓

✓

Presence of circuit protection conductors

✓

✓

Presence of main equipotential conductors

✓

✓

Presence of earthing arrangements for combined protective and functional purposes

✓

✓

Presence of adequate arrangements for alternative source(s), where applicable

✓

✓

PELV

✓

✓

Choice and setting of protective and monitoring devices

✓

N/A

Non-conducting location:

Absence of protective conductors

General

Adequacy of access to switchgear and other equipment

✓

Presence and correct location of appropriate devices for isolation and switching

N/A

Earth free equipotential bonding:

Presence of earth free equipotential bonding conductors

✓

Particular protective measures for special installations and locations

N/A

Electrical separation

for one item of current using equipment

✓

Connection of single pole devices for protection or switching in phase conductors only

N/A

Electrical separation

for more than one item of current using equipment

✓

Correct connection of accessories and equipment

✓

Additional protection
(For use in controlled supervised conditions only)

N/A

Presence of under voltage protective devices

✓

Presence of residual current device(s)

✓

Selection of equipment and protective measures appropriate to external influences

✓

Presence of supplementary bonding conductors

✓

Selection of appropriate functional switching devices

Prevention of mutual detrimental influences

Proximity of non-electrical services and other influences

Segregation of band I and band II circuits or band II insulation used

Segregation of safety circuits

Identification

Presence of diagrams, instructions, circuit charts and similar information

Presence of danger notices and other warning signs

Labelling of protective devices, switches and terminals

Identification of conductors

Cables and conductors

Selection of conductors for current-carrying capacity and volt drop

Erection methods

Routing of cables in prescribed zones

Cables incorporating earthed armour or sheath or run in an earthed wiring system or protected against nails, screws and the like

Additional protection by a 30mA for cables concealed in walls (where required in premises not under the supervision of skilled or instructed persons)

Connection of conductors

Presence of fire barriers, suitable seals and protection against thermal effects

General

Adequacy of access to switchgear and other equipment

Presence and correct location of appropriate devices for isolation and switching

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 under voltage protective devices

Selection of equipment and protective measures appropriate to external influences

Selection of appropriate functional switching devices

✓

To indicate that an inspection or test has been carried out and the result is satisfactory

X

To indicate that an inspection or test has been carried out and the result was unsatisfactory

LIM

To indicate that an inspection or test has not been carried out following agreed limitations of inspection or testing

N/A

To indicate the inspection or test is not applicable

N/V

To indicate that details could not be verified

SCHEDULE OF ITEMS TESTED

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

SCHEDULE OF ADDITIONAL RECORDS (See attached schedule)

Note: Additional page(s) must be identified by the Electrical Installation Certificate serial number and page number(s).

Page No(s) : N/A

TEST INSTRUMENTS USED

Instrument Serial No(s)	KT64 - Serial No. 8037327
Earth fault loop impedance	KT64 - Serial No. 8037327
Insulation resistance	KT64 - Serial No. 8037327
Continuity	KT64 - Serial No. 8037327
RCD	KT64 - Serial No. 8037327
Other	Socket Tester

NOTES FOR RECIPIENT

THIS CERTIFICATE IS A VALUABLE DOCUMENT AND SHOULD BE RETAINED FOR FUTURE REFERENCE

This safety certificate has been issued to confirm that the electrical installation work to which it relates has been designed, constructed and inspected and tested in accordance with British Standard 7671 (The IEE Wiring regulations).

You should have received an original Certificate and the contractor should have retained a duplicate Certificate. If you were the person ordering the work, but not the owner of the installation, you should pass this Certificate, or a full copy of it including the schedules immediately to the user.

The original certificate should be retained in a safe place and be shown to any person inspecting or undertaking further work on the electrical installation in the future. If you later vacate the property, this Certificate will demonstrate to the new owner that the electrical installation complied with the requirements of British Standard 7671 at the time the Certificate was issued was issued. The Construction (Design and Management) Regulations require that for a project covered by those Regulations, a copy of this Certificate, together with schedules is included in the health and safety documentation.

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

This Certificate is intended to be issued only for a new electrical installation or for new work associated with an alteration or addition to a existing installation. It should not have been issued for the inspection of an existing electrical installation. A "Periodic Inspection Report" should be issued for such a periodic inspection.

The Certificate is only valid if a Schedule of Inspection of Test Results is appended.

Nicholson Electrical Ltd - DISTRIBUTION BOARD DETAILS

DB ref.:	DB1	Z _s at this board (Ω):	0.31	I _{pf} at this board (KA):	0.61	Main switch type BSEN reference:	60947-3 Isolator	Rating:	100 Amps	Supply conductors:	25 mm ²	Earth:	16 mm ²
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Distribution board location:	Service Cupboard	Supplied from:	Mains	No. Of phases:	Single	Supply protective device type: BSEN reference:	BS3161 Fuse HBC - Type 2	Rating:	80 Amps
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CIRCUIT DETAILS

TEST RESULTS

Circuit Reference	Circuit designation	Reference method	Type of wiring (see code below)	Number of points served	Circuit conductors		Max. Disconnection time permitted (s)	Type BS EN	Over-current devices		RCD	I _{Δn} mA	Maximum permitted Z _s Ω	Circuit impedances Ω				Insulation resistance				Polarity	RCD			
					Live (mm ²)	cpc (mm ²)			Rating (A)	Short circuit capacity (KA)				Ring final circuits only (Measured end to end)		All circuits (At least one column to be completed)		Phase /Phase M Ω	Phase /Neutral M Ω	Phase /Earth M Ω	Neutral /Earth M Ω					
														r ₁	r _n	r ₂	R ₁ + R ₂	R ₂								
1	Temp Supply	A	A	1	10	6	0.4	61009 Type B	32	6	30	1.15	N/A	N/A	N/A	Lim	N/A	1999	1999	1999	✓	Lim	✓	23	23	
2	Service area sockets	A	A	3	2.5	1.5	0.4	61009 Type B	16	6	30	2.30	N/A	N/A	N/A	0.09	N/A	N/A	1999	1999	1999	✓	0.44	✓	19	9
3	Lights passage	A	A	1	1.5	1.0	0.4	61009 Type B	6	6	30	6.13	N/A	N/A	N/A	0.11	N/A	N/A	1999	1999	1999	✓	0.48	✓	21	21
4	Lights ladies	A	A	3	1.5	1.0	0.4	61009 Type B	6	6	30	6.13	N/A	N/A	N/A	0.41	N/A	N/A	1999	1999	1999	✓	0.7	✓	38	16
5	Lights service area	A	A	2	1.5	1.0	0.4	61009 Type B	6	6	30	6.13	N/A	N/A	N/A	0.36	N/A	N/A	1999	1999	1999	✓	0.75	✓	20	18
6	Lights gents	A	A	6	1.5	1.0	0.4	61009 Type B	6	6	30	6.13	N/A	N/A	N/A	0.58	N/A	N/A	1999	1999	1999	✓	0.89	✓	37	18
7	Water / Unknown	N/A	N/A	N/A	2.5	1.5	0.4	61009 Type B	20	6	30	1.84	N/A	N/A	N/A	N/a	N/A	N/A	1999	1999	1999	✓	N/A	✓	22	29
8	Ladies hand dryer	A	A	1	2.5	1.5	0.4	61009 Type B	20	6	30	1.84	N/A	N/A	N/A	0.29	N/A	N/A	1999	1999	1999	✓	0.58	✓	22	18
9	Gents hand dryer	A	A	1	2.5	1.5	0.4	61009 Type B	16	6	30	2.30	N/A	N/A	N/A	0.31	N/A	N/A	1999	1999	1999	✓	0.55	✓	27	15
10	Ladies lights	A	A	3	1.5	1.0	0.4	61009 Type B	6	6	30	6.13	N/A	N/A	N/A	0.32	N/A	N/A	1999	1999	1999	✓	0.63	✓	29	19
11	Disabled lights	A	A	2	1.5	1.0	0.4	61009 Type B	6	6	30	6.13	N/A	N/A	N/A	0.47	N/A	N/A	1999	1999	1999	✓	0.89	✓	19	18
12	Outside lights	A	A	5	1.5	1.0	0.4	61009 Type B	6	6	30	6.13	N/A	N/A	N/A	0.63	N/A	N/A	1999	1999	1999	✓	0.79	✓	25	20
13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			

CODES FOR TYPES 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	

Log Book – Outlet Temperatures (Sentinels & Representatives)

(CP)

Month.....

May 15.....

To comply with the specified control measures, water from the hot water outlets should reach at least 50°C within 1 minute of running (55°C in healthcare premises) and water from the cold water outlets should be below 20°C after running the water for up to 2 minutes. Sentinel outlets are the nearest and furthest outlets on a system or the first and last outlets on a recirculated system and must be monitored on a monthly basis. A representative amount on non sentinel outlets must be monitored annually on a rotational basis. Failures must be reported to the Responsible Person for further action in accordance with the written scheme.

Site Name:	Outlet Reference & Location:	Outlet Fed From:	Outlet Type (S/R)	Temp in °C	Name:	Date:
HELSTON - BOWLING GREEN, MONUMENT	TAP (Drinks)	Mains	S	14.5	C - P	18.5.15
HELSTON - COVERACK CAR PARK	Sink Tap Gents	Mains	S	12.2.	C - P	20.5.15
HELSTON - COVERACK HARBOUR	TAP Gents.	Mains	S	14.	C - P	20.5.15
HELSTON - GUILDHALL	Tap Gents.	Mains	S	14.1.	C - P	18.5.15

Outlet Fed From = Source of water i.e.: Water Heater No, Cold Water Storage Tank No, Mains Cold, etc

Outlet Type: S = Sentinel; R = Representative

Log Book – Outlet Temperatures (Sentinels & Representatives)

Month May 15

(CP)

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Site Name:	Outlet Reference & Location:	Outlet Fed From:	Outlet Type (S/R)	Temp in °C	Name:	Date:
HELSTON- GUNWALLOE CHURCH COVE	TAP near -	main	S	12.3.	C. & G.	23.5.16
HELSTON - HELFORD VILLAGE	Sink Tap Grants	main	S	11.2	C. & G.	23.5.16
HELSTON - LIZARD GREEN	widex tap	main	S	12.8	C. & G.	23.5.16
HELSTON - PORTHOLLOW	Tap unidex	main	S	12.7	C. & G.	23.5.16
	5th P.G.					

Outlet Fed From = Source of water i.e.: Water Heater No. Cold Water Storage Tank No, Mains Cold, etc

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Log Book – Outlet Temperatures (Sentinels & Representatives)

(CP)

Month..... MAY 15

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Site Name:	Outlet Reference & Location:	Outlet Fed From:	Outlet Type (S/R)	Temp in °C	Name:	Date:
HELSTON - PORTHELEVEN HARBOUR	Wallske gash. mains	S	12.4	26.9		20.5.15
HELSTON - PORTHELEVEN SHUTE LANE	Wallske tap. main S	16.5	26	22.5.15		
HELSTON - ST KEVERNE SQUARE	Gents tap. mains S	14.5	26.9	20.5.15		
HELSTON - TRENGROUSE WAY	Crossy	12.5	C.E.P.	20.5.15		

Outlet Fed From = Source of water i.e.: Water Heater No, Cold Water Storage Tank No, Mains Cold, etc

Outlet Type: S = Sentinel; R = Representative

Log Book – Outlet Temperatures (Sentinels & Representatives)

Month... May 15

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Site Name:	Outlet Reference & Location:	Outlet Fed From:	Outlet Type (S/R)	Temp in °C	Name:	Date:
PRAA SANDS	UNISITE TAP MAIN	S	14.5	C. & P.	20.5.15	
REDRUTH - NEW CUT	UNISITE TAP MAIN	S	14.8	C. & P.	11.5.15	
ST AGNES- CHURCHTOWN	UNISITE TAP MAIN	S	12.1	C. & P.	11.5.15	
ST AGNES - TREVANNUANCE COVE	UNISITE WALL GATE MAINS	S	13.2	C. & P.	11.5.15	

Outlet Fed From = Source of water i.e.: Water Heater No, Cold Water Storage Tank No, Mains Cold, etc
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Outlet Type: S = Sentinel; R = Representative

Log Book – Outlet Temperatures (Sentinels & Representatives)

(CP)

Month.

May 15.

To comply with the specified control measures, water from the hot water outlets should reach at least 50°C within 1 minute of running (55°C in healthcare premises) and water from the cold water outlets should be below 20°C after running the water for up to 2 minutes. Sentinel outlets are the nearest and furthest outlets on a system or the first and last outlets on a recirculated system and must be monitored on a monthly basis. A representative amount on non sentinel outlets must be monitored annually on a rotational basis. Failures must be reported to the Responsible Person for further action in accordance with the written scheme.

Site Name:	Outlet Reference & Location:	Outlet Fed From:	Outlet Type (S/R)	Temp in °C	Name:	Date:
PORTHROWAN	THE GATES	MAIN	S	14.5	C.5.1	11.5.15
PORTREATH	WALLGATE	MAIN	S	12.6	C.5.1	11.5.15
CAMBORNE - ROSEWARNE	WALLGATE MAINS	S	15.9	C.5.1	16.5.15	
CAMBORNE - PARK	SINK. ST. MAINS	S	12.3	C.5.1	16.5.15	

Log Book – Outlet Temperatures (Sentinels & Representatives)

(CP)

Month Mar 15

To comply with the specified control measures, water from the hot water outlets should reach at least 50°C within 1 minute of running (55°C in healthcare premises) and water from the cold water outlets should be below 20°C after running the water for up to 2 minutes. Sentinel outlets are the nearest and furthest outlets on a system or the first and last outlets on a recirculated system and must be monitored on a monthly basis. A representative amount on non sentinel outlets must be monitored annually on a rotational basis. Failures must be reported to the Responsible Person for further action in accordance with the written scheme.

Site Name:	Outlet Reference & Location:	Outlet Fed From:	Outlet Type (S/R)	Temp in °C	Name:	Date:
PRAZE AN BEEBLE	SWAN	Mains	S	12.6	C. P.	27.5.15
LOE BEACH	Wallsache Creek mains	S	11.00	C. E. P.	8.5.15	
MYLOR BRIDGE	unise x TAP	mains	S	11.4	C. E. P.	8.5.15
MALPAS	WALLBROOK LANE mains	S	11.8	C. E. P.	8.5.15	