

ELECTRICAL INSTALLATION CONDITION REPORT

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

DETAILS OF THE CLIENT

Name: *Lowells*

Address: *Colmsby*

PURPOSE FOR WHICH THIS REPORT IS REQUIRED

This report must be used only for reporting on the condition of an existing installation.

Safety Check

Date(s): *24-5-2021*

DETAILS OF THE INSTALLATION

Occupier: *Lowells*

Address: *23 Carnthorpe Crescent DN34 5HG*

Description of Premises: Domestic Commercial Industrial Other

Estimated age of the Electrical Installation: *35* Years Evidence of Alterations or Additions: 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:

EXTENT OF THE INSTALLATION AND LIMITATIONS OF THE INSPECTION AND TESTING

Extent of the Electrical installation covered by this report:

All Fixed wiring installations

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

Client

Operational limitations including the reasons (see page No.)

Client -

This inspection has been carried out in accordance with BS 7671:2008, as amended. 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 under ground have not been inspected.

SUMMARY OF THE CONDITION OF THE INSTALLATION

General condition of the installation (in terms of electrical safety):

fair condition

If necessary, continue on additional page(s)? No Yes Specify page

Overall assessment of the installation: **SATISFACTORY / UNSATISFACTORY** (Delete as appropriate)

An "Unsatisfactory" assessment indicates that dangerous and/or potentially dangerous conditions have been identified.

SCHEDULES AND ADDITIONAL PAGES

Schedule of items inspected Page No. 4,5,6,7

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

Schedule of Circuit Details for the installation: Page No(s): 8

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

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.

NEXT INSPECTION

We recommend that this installation is further inspected and tested after an interval of not more than 24-5-2026.

Provided that any items which have been attributed a Recommendation Code C1 and C2 (require urgent attention) are remedied without delay and as soon as possible respectively. Items which have been attributed a Recommendation Code C3 should be actioned as soon as practicable (see F).

DETAILS OF ELECTRICAL CONTRACTOR

Trading Title: Crystal Clear Solutions.

Telephone number: 07842449368

Address: 7 The Boreas
Gemby.

Fax number:

Registration number: STR116357.

Postcode: DN345AE.

Branch number:

(if applicable)

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 <input checked="" type="checkbox"/>	AC <input checked="" type="checkbox"/>	DC	Nominal Voltage U (1)	<u>230</u> V		BS(EN) <u>1361</u>
TN-C-S	1-phase (2 wire) <input checked="" type="checkbox"/>	1-phase (3 wire)	Nominal frequency f (1)	<u>50</u> Hz		Type <u>2</u>
TN-C	2-phase (3 wire)	3-phase (3 wire)	Prospective fault current (2/3)	<u>0.903</u> kA		Rated current <u>100</u> A
TT	3-phase (4 wire)	2 pole	External earth fault loop impedance Ze (3/4)	<u>0.21</u> Ω		Short-circuit capacity <u>6</u> kA
IT	3 pole	other	Number of supplies	<u>1</u>	1) by enquiry	(3) where more than one supply, the higher or highest values
	Other (Please state)		NOTES:		2) by enquiry or by measurement	(4) by measurement

PARTICULARS OF INSTALLATION AT THE ORIGIN

Tick boxes and enter details, as appropriate

Means of earthing	Details Installation Earth Electrode (where applicable)			Earthing and Protective Bonding Conductors	
Distributor's facility <input checked="" type="checkbox"/>	Type: (eg rod(s), tape etc)	Location:	Maximum Demand:	kVA/Amps	
Installation earth electrode	Electrode resistance, RA: Ω	Method of measurement:	Protective measures against electric Shock:		
# Main Switch or Circuit Breaker					
Type (BS(EN))	<u>60947-3</u>	Voltage Rating	<u>230</u> V	Earthing conductor	Conductor csa <u>16</u> mm ²
No of Poles	<u>2</u>	Rated current I _n	<u>30</u> A	Conductor material	<u>Copper</u> Continuity check <u>270(N)</u>
Supply conductors: material	<u>Copper</u>	RCD operating current I _{Δn}	<u>30</u> mA	Bonding of extraneous-conductive-parts (V)	
Supply conductors: csa	<u>16</u> mm ²	RCD operating time (at I _{Δn})	<u>36</u> ms	Gas service	<input checked="" type="checkbox"/>
				Lighting	<input checked="" type="checkbox"/>
				Water service	<input checked="" type="checkbox"/>
				Structural steel	<input checked="" type="checkbox"/>
				Oil service	<input checked="" type="checkbox"/>
				Other service(s)	<input checked="" type="checkbox"/>

INSPECTION SCHEDULE FOR DISTRIBUTION BOARDS AND CIRCUITS

Item	Description	Outcome*	Location reference
1.0 Condition/adequacy of distributor's supply intake equipment			
1.1	Service cable	✓	
1.2	Service cut-out/fuse(s)	✓	
1.3	Meter tails - distributor	✓	
1.4	Meter tails - consumer	✓	
1.5	Metering equipment	✓	
1.6	Means of main isolation (where present)	✓	
2.0 Presence of adequate arrangements for parallel or switched alternative sources			
		✓	
3.0 Automatic disconnection of supply			
		✓	
3.1 Main earthing and bonding arrangements			
* Presence and condition of distributor's earthing arrangement		✓	
* Presence and condition of earth electrode arrangement		N/A	
* Adequacy of earthing conductor size		✓	
* Adequacy of earthing conductor connections		✓	
* Accessibility of earthing conductor connections		✓	
* Adequacy of main protective bonding conductor size(s)		✓	
* Adequacy of main protective bonding conductor connections		✓	
* Accessibility of main protective bonding connections		✓	
* Provision of earthing/bonding labels at all appropriate locations		✓	
3.2 FELV			
* Source providing at least simple separation		✓	
* Plugs, socket-outlets and the like not interchangeable with those of other systems within the premises		✓	
3.3 Reduced low voltage			
* Adequacy of source		✓	
* Plugs, socket-outlets and the like not interchangeable with those of other systems within the premises		✓	
4.0 Other methods of protection (where the methods of protection listed below are employed, details should be provided on separate sheets)			
4.1	Double insulation	✓	
4.2	Reinforced insulation	✓	
4.3	Use of obstacles	✓	
4.4	Placing out of reach	✓	
4.5	Non-conducting location	✓	
4.6	Earth-free local equipotential bonding	✓	
4.7	Electrical separation for more than one item of equipment	✓	
5.0 Distribution equipment			
5.1	Adequacy of working space/accessibility of equipment	✓	
5.2	Security of fixing	✓	
5.3	Condition of insulation of live parts	✓	
5.4	Adequacy/security of barriers	✓	
5.5	Condition of enclosure(s) in terms of IP rating	✓	
5.6	Condition of enclosure(s) in terms of fire rating	C3.	
5.7	Enclosure not damaged/deteriorated so as to impair safety	✓	
5.8	Presence of main switch(es), linked where required	✓	

7.1 Isolations		
* presence and condition of appropriate devices		✓
* acceptable location		✓
* capable of being secured in the OFF position		✓
* correct operation verified		✓
* clearly identified by position and/or durable marking(s)		✓
* Warning label posted in situations where live parts cannot be isolated by the operation of a single device		✓
7.2 Switching off for mechanical maintenance		
* presence and condition of appropriate devices		✓
* acceptable location		✓
* capable of being secured in the OFF position		✓
* correct operation verified		✓
* clearly identified by position and/or durable marking(s)		✓
7.3 Emergency switching/stopping		
* presence and condition of appropriate devices		NIA
* readily accessible for operation where danger might occur		NIA
* correct operation verified		NIA
* clearly identified by position and/or durable marking(s)		NIA
7.4 Functional switching		
* presence and condition of appropriate devices		✓
* correct operation verified		✓
8.0 Current-using equipment (permanently connected)		
8.1 Condition of equipment in terms of IP rating		✓
8.2 Equipment does not constitute a fire hazard		✓
8.3 Enclosure not damaged/deteriorated so as to impair safety		✓
8.4 Suitability for the environment and external influences		✓
8.5 Security of fixing		✓
8.6 Cable entry holes in ceiling above luminaires, sized or sealed so as to restrict the spread of fire (indicate extent of sampling in Section D of report)		✓
8.7 Recessed luminaires (e.g. downlighters)		
* correct type of lamps fitted		✓
* installed to minimise build-up of heat by use of "fire rated" fittings, insulation displacement box or similar		✓
* no signs of overheating to surrounding building fabric		✓
* no signs of overheating to conductors/terminations		✓
9.0 Location(s) containing a bath or shower		
9.1 Additional protection for all low voltage (LV) circuits by RCD not exceeding 30 mA		✓
9.2 Where used as a protective measure, requirements for SELV or PELV are met		✓
9.3 Shaver sockets comply with BS EN 61558-2-5 or BS 3535		✓
9.4 Presence of supplementary bonding conductors unless not required by BS 7671: 2008		✓
9.5 Low voltage (e.g. 230 volts) socket-outlets sited at least 3 m from zone 1		✓
9.6 Suitability of equipment for external influences for installed location in terms of IP rating		✓
9.7 Suitability of equipment for installation in a particular zone		✓
9.8 Suitability of current-using equipment for a particular position within the location		✓
10.0 Other Special installations or locations		
List special locations present, if any. List the results of particular inspections applied.- a separate page is required for each location		✓

* All Boxes must be completed

Unacceptable condition state C1 or C2

Outcome

✓ Indicates **Acceptable condition**

Improvement recommended state C3

Provide additional comment where appropriate on attached numbered sheets. C1, C2 and C3 coded items to be recorded in section F of the report.

LIM indicates a **limitation**

Further investigation required state F/I
(to determine whether danger or potential
(danger exists)

N/A indicates **Not applicable**

SCHEDULE OF ITEMS TESTED

✓	External earth loop impedance, Ze	✓	Basic protection against direct contact by barrier or enclosure provided during erection
N/A	Installation earth electrode resistance, Ra	✓	Insulation of non-conducting floors or walls
✓	Continuity of protective conductors	✓	Polarity
✓	Continuity of ring circuit conductors	✓	Earth fault loop impedance Zs
✓	Insulation resistance between live conductors	✓	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

TEST INSTRUMENTS USED

Earth fault loop impedance	Metrel
Insulation resistance	Metrel
Continuity	Metrel
RCD	Metrel
Other	N/A
Other	N/A

NOTES FOR RECIPIENT

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

This Electrical Installation Condition Report form is intended for the reporting on the condition of an existing electrical installation.

You should have received an original Certificate 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 full copy of it, immediately to the user.

The original Report is to 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 Report will provide the new owner with the 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 any 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 undertake the necessary remedial work without delay.

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 Report under "Next Inspection."

DISTRIBUTION BOARD DETAILS

DB ref.: DB 1	Z _s at this board (Ω): 0.17	I _n at this board (KA): 0.90	Main switch type BSEN reference: (6947)	Rating: 100 Amps	Supply conductors: 16 mm ²	Earth: 16 mm ²
Distribution board location: under stairs.	Supplied from: 1361	No. Of phases: 2	Supply protective device type: BSEN reference: 1361	Rating: 100 Amps		

CIRCUIT DETAILS

TEST RESULTS

Circuit Reference	Circuit designation	Type of wiring	Reference method	Circuit conductors		Max. Disconnection time permitted (s)	Overcurrent devices		RCD	Circuit impedances Ω					Insulation resistance				RCD					
				Live (mm ²)	cpc (mm ²)		Type BS EN	Rating (A)		Short circuit capacity (KA)	IΔn mA	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	Polarity	Maximum Measured Z _s Ω	At IΔn ms	At 5 x IΔn ms
												r ₁	r _n	r ₂	R ₁ , R ₂	R ₂								
1	Cooker	A	100	6	2.5	0.46	32	6	30	1.4			0.11	1000	1000	1000	1000	✓	28	3	16			
2	Sockets	A	100	2.5	1.5	0.46	32	6	30	1.9	0.31	0.21	0.47	1000	1000	1000	1000	✓	31	2	16			
3	Sockets	A	100	2.5	1.5	0.46	32	6	30	1.9	0.42	0.42	0.53	1000	1000	1000	1000	✓	47	36	16			
4	Water Heater	A	100	2.5	1.5	0.46	32	6	30	1.9			0.28	1000	1000	1000	1000	✓	46	36	16			
5	Lights	A	100	1	1	0.46	32	6	30	1.3			0.56	1000	1000	1000	1000	✓	75	36	16			
6	Lights	A	100	1	1	0.46	32	6	30	1.7			0.48	1000	1000	1000	1000	✓	53	36	16			
7																								
DB 2.																								
1																								
2	Shower	A	100	6	2.5	0.46	32	6	30	1.4			0.09	1000	1000	1000	1000	✓	21	2	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	