Electrical Installation Condition Report

Requirements for Electrical Installations - BS 7671:2018
(IET Wiring Regulations 18th Edition)

Information for recipients:

The purpose of this report is to confirm, so far as reasonably practicable, whether or not the electrical installation is in a satisfactory condition for continued service (see Section E). The Report should identify any damage, deterioration, defects and/or conditions which may give rise to danger (see Section K).

The person ordering the report should have received the Original©Report and the inspector should have retained a duplicate.

The Original©Report should be retained in a safe place and be made available to any person inspecting or undertaking work on the electrical installation in the future. If the property is vacated, this Report will provide the new owner/occupier with details of the condition of the electrical installation at the time the Report was issued.

Where the installation incorporates residual current devices (RCDs) there should be a notice at or near the devices stating that they should be tested every 6 months. **For safety reasons it is important that these instructions are followed.**

Section D (Extent and Limitations) should identify fully the extent of the installation covered by this Report and any limitations on the inspection and testing. The Inspector should have agreed these aspects with the person ordering the Report and with other interested parties (licencing authority, insurance company, mortgage provider and the like) before the inspection was carried out.

Some operational limitations such as inability to gain access to parts of the installation or an item of equipment may have been encountered during the inspection. The inspector should have noted these in Section D.

For items classified in Section K as C1 (“Danger Present”), **the safety of those using the installation is at risk**, and it is recommended that a skilled person or persons competent in electrical installation work undertakes the necessary remedial work immediately.

For items classified in Section K as C2 (“Potentially Dangerous”), **the safety of those using the installation may be at risk** and it is recommended that a skilled person or persons competent in electrical installation work undertakes the necessary remedial work as a matter of urgency.

Where it has been stated in Section K that an observation requires further investigation code FI the inspection has revealed an apparent deficiency which may result on a code C1 or C2 could not, due to the extent or limitations of this inspection, be fully identified. Such observations should be investigated as soon as possible. A further examination of the installation will be necessary, to determine the nature and extent of the apparent deficiency (see Section F).

For safety reasons, the electrical installation should be re-inspected at appropriate intervals by a skilled person or persons competent in such work. The recommended date by which the next inspection is due is stated in Section F of the report under ‘Recommendations’ and on label at or near to the consumer unit/distribution board.

ELECTRICAL INSTALLATION CONDITION REPORT

FT/EICR 3486000001245

for Industrial/Commercial Premises

Requirements for Electrical Installations
BS 7671:2018 (IET Wiring Regulations 18th Edition)

A. Details of the Installation

Client	WESSEX RFCA	Installation	OKEHAMPTON PLATOON
Address	MOUNT HOUSE MOUNT STREET TAUNTON SOMERSET	Address	MILITARY SIDINGS TORS ROAD OKEHAMPTON DEVON
Postcode	TA1 3QU	Postcode	EX20 1EF

B. Reason for Producing this Report

This form is to be used only for reporting on the condition of an existing installation.

SAFETY

Date(s) on which the inspection and testing were carried out 10/11/2021 to 10/11/2021

C. Details of Installation which is the Subject of this Report

Description of premises Domestic ☐ Commercial ☑ Industrial ☐ Other (please specify)

Estimated age of the wiring system 10 years

Evidence of alterations or addition Yes ☐ No ☑ Not apparent ☐ if 'Yes', estimated years

Records of installation available Yes ☐ No ☑ Records held by

Date of last inspection Not Known Electrical Installation Certificate No. or previous Inspection Report No. .

D. Extent of Electrical Installation Covered by this Report:

AS PER SCHEDULES - DB1 & DB2 INCLUDING ALL OUGOING CIRCUITS

Agreed Limitations and Operational Limitations (Regulations 653.2)

ATC CABIN HAS NOT BEEN INCLUDED WITHIN THIS EICR.

Agreed with: AS PER WORK ORDER

The inspection and testing detailed within this report and accompanying schedule has been carried out in accordance with BS 7671: 2018 (IET Wiring Regulations) amended to 2020

It should be noted that cables concealed within trunkings and conduits, under floors, in roof spaces and generally within the fabric of the building or underground have NOT been inspected unless specifically agreed between the client and inspector prior to the inspection. An inspection should be made within an accessible roof space housing other electrical equipment.

E. Summary of the Condition of the Installation

General conditions of the installation (in terms of electrical safety)

UN-SATISFACTORY - URGENT C2 & C3 DEVIATIONS PRESENT

Overall assessment of the installation in terms of its suitability for continued use **SATISFACTORY** ☐ ***UNSATISFACTORY** ☑

*An UNSATISFACTORY assessment indicates that dangerous (code C1), or potentially dangerous (code C2), Further investigation (code FI) conditions have been identified

F. Recommendations

Where the overall assessment of the suitability of the installation for continued use above is stated as UNSATISFACTORY I/we recommend that any observations classified as *'Danger present'* **(code C1)** or *'Potential dangerous'* **(code C2)** are acted upon as a matter of urgency. Investigation without delay is recommended for observations identified as *'Further Investigation required'* **(code FI)**. Observations classified as *'Improvement recommended'* **(code C3)** should be given due consideration. Subject to the necessary remedial action being taken, I/we recommend that the installation is further inspected and tested by 10/11/2026 (date)

G. 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 and limitations in section D of this report.

			Inspected and tested by	Authorised for issue by
Company	Technical Electrical Engineering Ltd t/a Mr Electric	Name:	Ed Rowe	Steve Creese
Address	Wheal Kitty Studios, Wheal Kitty, St Agnes,	Signature:		
Postcode	TR5 0RD			
Branch No.		Position:	Technician	Qualified Supervisor
Scheme No.	019875	Date:	10/11/2021	15/11/2021

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H. Schedule(s)

2 schedule(s) of inspection and 2 schedule(s) of test results are attached.

The attached schedule(s) are part of this document and this report is valid only when they are attached to it.

I. Supply Characteristics and Earthing Arrangements

Earthing Arrangements: TN-S ☐ TN-C-S ☑ TT ☐ Other ☐ Please specify

Number & Type of live conductors: AC ☑ DC ☐ No. of phases: 3 No. of wires: 4

Nature of Supply Parameters (Note: (1) by enquiry, (2) by enquiry or by measurement)

Nominal voltage, U/U_0 (1): 400/230 v Nominal frequency, f(1): 50 Hz Confirmation of supply polarity ☑

Prospective fault current, I_{pf} (2): 2.7 kA External loop impedance, Z_e (2): 0.14 Ω

Supply Protective Device BS (EN): 1361 Fuse HBC 1 Type: 1 Rated Current: 100 A

No. of Additional Supplies: 0

J. Particulars of Installation Referred to in this Report

Means of Earthing

Details of installation Earth Electrode (where applicable) Type (e.g. rod(s), tape etc)

Location: Electrode resistance to earth: Ω

Distributors facility ☑ Installation Earth Electrode ☐

Maximum Demand (load): 50 Amps ☑ KVA ☐

Main Protective Conductors	Material	csa	(✓) or Value		(✓) or Value	
Earthing Conductor	Copper	16	Continuity Verified ☑	Ω	Connection Verified ☐	Ω
Protective Bonding Conductor (to extraneous-conductive-parts)	Copper	10	Continuity Verified ☑	LIM Ω	Connection Verified ☐	LIM Ω

Main Supply Conductor Copper 25

Main Switch Location: ELECTRICAL CUPBOARD

Fuse/device rating or setting: 100 A Voltage rating: 230 V

If RCD main switch: Rated residual operating current I Δn: N/A mA

BS(EN): 60947-3 No. of Poles: 2 Current Rating: 100 A Rated time delay: N/A ms Measured operating trip time: N/A ms

(connection / continuity)	(✓) or Value		(✓) or Value	
Water installation	☑	Ω	To structural steel	☑ Ω
Gas installation pipes	NA	Ω	To lightning protection	NA Ω
Oil installation pipes	NA	Ω	Other	☐ Ω

K. Observations

Referring to the attached schedule of inspection and test results, and subject to the limitations at Section D.

☐ No remedial work required

☑ The following observations are made

Explanation of codes

C1	Danger present. Risk of Injury. Immediate remedial action required.
C2	Potentially dangerous. Urgent remedial action required.
C3	Improvement recommended.
FI	Further Investigation required without delay

Item No.	Observations	Code
1	DB - : 5.2 Cables correctly supported throughout their run (521.10.202; 522.8.5) where visible	L
2	DB - : 5.10 Concealed cables installed in prescribed zones (see Section D. Extent and limitations) (522.6.202) - Only checked where visible	L
3	DB - : 5.11 Cables concealed under floors, above ceilings or in walls/partitions, adequately protected against damage (see Section D. Extent and limitations) (522.6.204) -Only checked where visible	L
4	DB - : 5.15 Cables segregated/separated from communications cabling (528.2) Only checked where visible	L
5	DB - : 5.16 Cables segregated/separated from non-electrical services (528.3) Only checked where visible	L
6	DB Entire Installation : 1.10 Presence of RCD six-monthly test notice at or near consumer unit/distribution board (514.12.2) - There is no RCD test label at the DB/CU (514.12.2)	C3
7	DB Entire Installation : 1.9 Correct identification of circuit details and protective devices (514.8.1; 514.9.1) - DB2 UNCLEAR	C3
8	DB Entire Installation : 1.11 Presence of non-standard (mixed) cable colour warning notice at or near equipment, where required (514.14) - There is no two-colour warning label at the DB/CU where mixed cable colours are present (514.14)	C3
9	DB Entire Installation : 1.19 RCD(s) provided for additional protection/requirements, where required - includes RCBO(s) (411.3.3; 415.1) - See written report	C2
10	DB Entire Installation : 2.12.1 For all socket-outlets of rating 32 A or less unless exempt (4.11.3.3) - Socket-Outlets: can be used outdoors – no RCD protection (411.3.3)	C2
11	DB Entire Installation : 2.12.2 For the supply of Mobile equipment not exceeding 32 A rating for use outdoors (411.3.3) - RCD protection not provided for equipment rated up to 32 A and used outdoors (411.3.3)	C2
12	DB Entire Installation : 2.12.3 For cables concealed in walls at a depth of less than 50 mm (522.6.202; 522.6.203)- See written report	C3
13	DB Entire Installation : 2.12.4 For cables concealed in walls/partitions containing metal parts regardless of depth (522.6.203) -See written report	C3
14	DB Entire Installation : 2.17.1 Connections soundly made and under no undue strain (526.6) - See written report	C2
15	DB Entire Installation : 2.17.3 Connections of live conductors adequately enclosed (526.5) - See written report	C2
16	DB Entire Installation : 2.18 Condition of accessories including socket-outlets, switches and joint boxes (651.2 (v)) - See written report	C2
17	1.4 Meter tails - Not secured correctly -See written report	C3

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One of the following codes, as appropriate, has been allocated to each of the observations made above and/or any attached observation sheets to indicate to the person(s) responsible for the installation the degree of urgency for remedial action.

C1 Danger present. Risk of Injury. Immediate remedial action required.	
C2 Potentially dangerous. Urgent remedial action required.	9, 10, 11, 14, 15, 16
C3 Improvement recommended.	6, 7, 8, 12, 13, 17
FI Further Investigation required without delay	

Outcomes

Acceptable condition:	Unacceptable condition: State	Improvement recommended:	Further Investigation:	Not Verified:	Limitation:	Not Applicable:
✓	C1 or C2	C3	FI	NV	L	N/A

Item No.	Description	Outcome
1.0 External Condition Of Intake Equipment (Visual Inspection Only) Where inadequacies are encountered, it is recommended that the person ordering the report informs the appropriate authority		
1.1	Service cable	✓
1.2	Service head	✓
1.3	Earthing arrangement	✓
1.4	Meter tails	C3
1.5	Metering equipment	✓
1.6	Isolator (where present)	N/A
2.0 Parallel Or Switched Alternative Sources Of Supply		
2.1	Adequate arrangements where a generating set operates as a switched alternative to the public supply (551.6)	N/A
2.2	Adequate arrangements where a generating set operates in parallel with the public supply (551.7)	N/A
3.0 Automatic Disconnection Of Supply		
3.1	Main earthing/bonding arrangements (411.3; Chap 54)	✓
3.1.1	Presence of distributor's earthing arrangement (542.1.2.1; 542.1.2.2)	✓
3.1.2	Presence of installation earth electrode arrangement (542.1.2.3)	N/A
3.1.3	Adequacy of earthing conductor size (542.3; 543.1.1)	✓
3.1.4	Adequacy of earthing conductor connections (542.3.2)	✓
3.1.5	Accessibility of earthing conductor connections (543.3.2)	✓
3.1.6	Adequacy of main protective bonding conductor sizes (544.1)	✓
3.1.7	Adequacy and location of main protective bonding conductor connections (543.3.2; 544.1.2)	✓
3.1.8	Accessibility of all protective bonding connections (543.3.2)	✓
3.1.9	Provision of earthing/bonding labels at all appropriate locations (514.13)	✓
3.2	FELV - requirements satisfied (411.7; 411.7.1)	N/A
4.0 Other Methods Of Protection (Where any of the methods listed below are employed details should be provided on separate sheets)		
4.1	Non-conducting location (418.1)	N/A
4.2	Earth-free local equipotential bonding (418.2)	N/A
4.3	Electrical separation (Section 413; 418.3)	N/A
4.4	Double insulation (Section 412)	N/A
4.5	Reinforced insulation (Section 412)	N/A
5.0 Distribution Equipment		
5.1	Adequacy of working space/accessibility to equipment (132.12; 513.1)	✓
5.2	Security of fixing (134.1.1)	✓
5.3	Condition of insulation of live parts (416.1)	✓
5.4	Adequacy/security of barriers (416.2)	N/A
5.5	Condition of enclosure(s) in terms of IP rating etc (416.2)	✓
5.6	Condition of enclosure(s) in terms of fire rating etc (421.1.6; 421.1.201; 526.5)	✓
5.7	Enclosure not damaged/deteriorated so as to impair safety (651.2)	✓
5.8	Presence and effectiveness of obstacles (417.2)	N/A
5.9	Presence of main switch(es), linked where required (462.1; 462.1.201; 462.2)	✓
5.10	Operation of main switch(es) (functional check) (643.10)	✓
5.11	Manual operation of circuit-breakers and RCD(s) to prove disconnection (643.10)	✓
5.12	Confirmation that integral test button/switch causes RCD(s) to trip when operated (functional check) (643.10)	✓
5.13	RCD(s) provided for fault protection – includes RCBO(s) (411.4.204; 411.5.2; 531.2)	✓
5.14	RCD(s) provided for additional protection / requirements, where required - includes RCBO(s) (411.3.3; 415.1)	✓
5.15	Presence of RCD six-monthly test notice at or near equipment, where required (514.12.2)	✓
5.16	Presence of diagrams, charts or schedules at or near equipment, where required (514.9.1)	✓
5.17	Presence of non-standard (mixed) cable colour warning notice at or near equipment, where required (514.14)	✓
5.18	Presence of alternative supply warning notice at or near equipment, where required (514.15)	N/A
5.19	Presence of next inspection recommendation label (514.12.1)	✓
5.20	Presence of other required labelling (please specify) (Section 514)	✓
5.21	Compatibility of protective device, base and other components; correct type and rating (no signs of unacceptable thermal damage, arcing or overheating) (411.3.2; 411.4; 411.4.5; 411.4.6; Sections 432; 433)	✓
5.22	Single-pole switching or protective devices in line conductors only (132.14.1; 530.3.3)	✓
5.23	Protection against mechanical damage where cables enter equipment (522.8.1; 522.8.5; 522.8.11)	✓
5.24	Protection against electromagnetic effects where cables enter ferromagnetic enclosures (521.5.1)	✓
6.0 Distribution Circuits		

6.1	Identification of conductors (514.3.1)	✓
6.2	Cables correctly supported throughout their run (521.10.202; 522.8.5)	✓
6.3	Condition of insulation of live parts (416.1)	✓
6.4	Non-sheathed cables protected by enclosure in conduit, ducting or trunking. Integrity of containment (521.10.1)	✓
6.5	Suitability of containment systems for continued use (including flexible conduit) (Section 522)	✓
6.6	Cables correctly terminated in enclosures (Section 526)	✓
6.7	Confirmation that ALL conductor connections, including connections to busbars, are correctly located in terminals and are tight and secure (526.1)	✓
6.8	Examination of cables for signs of unacceptable thermal or mechanical damage/deterioration (421.1; 522.6)	✓
6.9	Adequacy of cables for current-carrying capacity with regard for the type and nature of installation (Section 523)	✓
6.10	Adequacy of protective devices: type and rated current for fault protection (411.3)	✓
6.11	Presence and adequacy of circuit protective conductors (411.3.1.1; 543.1)	✓
6.12	Coordination between conductors and overload protective devices (433.1; 533.2.1)	✓
6.13	Cable installation methods/practices with regard to the type and nature of installation and external influences (Section 522)	✓
6.14	Where exposed to direct sunlight, cable of a suitable type (522.11.1)	✓
6.15	**Cables concealed under floors, above ceilings, in walls/partitions less than 50 mm from a surface, and in partitions containing metal parts**	
6.15.1	Installed in prescribed zones (see Section D. Extent and limitations) (522.6.202) or	NV
6.15.2	Incorporating earthed armour or sheath, or run within earthed wiring system, or otherwise protected against mechanical damage by nails, screws and the like (see Section D. Extent and limitations) (522.6.204)	NV
6.16	Provision of fire barriers, sealing arrangements and protection against thermal effects (Section 527)	✓
6.17	Band II cables segregated/separated from Band I cables (528.1)	NV
6.18	Cables segregated/separated from non-electrical services (528.3)	NV
6.19	Condition of circuit accessories (651.2)	✓
6.20	Suitability of circuit accessories for external influences (512.2)	✓
6.21	Single-pole switching or protective devices in line conductors only (132.14.1; 530.3.3)	✓
6.22	Adequacy of connections, including cpc's, within accessories and to fixed and stationary equipment – identify/record numbers and locations of items inspected (Section 526)	✓
6.23	Presence, operation and correct location of appropriate devices for isolation and switching (Chapter 46; 537)	✓
6.24	General condition of wiring systems (651.2)	✓
6.25	Temperature rating of cable insulation (522.1.1; Table 52.1)	✓

Inspector's Name: Ed Rowe

Signature:

Date: 10/11/2021

ELECTRICAL INSTALLATION CONDITION REPORT - Schedule of Tests

for Industrial/Commercial Premises

FT/EICR: 3486000001245

Requirements for Electrical Installations
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Company Name	Technical Electrical Engineering Ltd t/a Mr Electric	**Company Address**	Wheal Kitty Studios	**Postcode**	TR5 0RD	**Branch No.**	**Scheme No.** 019875
Client	WESSEX RFCA	**Installation Address**	, MILITARY SIDINGS, TORS ROAD, OKEHAMPTON, DEVON	**Postcode**	EX20 1EF		

Distribution board details - Complete in every case

Location: ELECTRICAL CUPBOARD
Designation: DB 1
Num. of ways: 12 Num. of phases: 1
Supply polarity confirmed: ☑ Phase sequence confirmed: ☐

Complete only if the distribution board is not connected directly to the origin of the installation

Supply to distribution board is from:
Overcurrent protective device for the distribution circuit: BS(EN) NA Type NA Rating NA A Voltage NA V

Characteristics at this distribution board

Associated RCD(if any): BS (EN) N/A
Z_d 0.31 Ω No. of poles N/A
I_{pf} 1.5 kA IΔn N/A
Time delay (if applicable) N/A
Above 30mA (if applicable): Operating at 1 IΔn N/A ms
30mA or below: Operating at 5 IΔn N/A ms

Test instrument serial number(s)

Loop impedance 1008128101650691
Insulation resistance 1008128101650691
Continuity 1008128101650691
RCD 1008128101650691

CIRCUIT DETAILS / TEST RESULTS

Circuit No. and Line No.	Distribution board Designation: DB 1 / Circuit designation	Type of wiring	Ref. method	No. of points	Circuit conductors csa (mm²) L / N	Circuit conductors csa (mm²) CPC	Maximum disconnection	Overcurrent protective devices: BS EN Number	Type No.	Rating (A)	Breaking capacity (KA)	RCD operating (mA)	BS 7671 Max. permitted Zs Other 100% (Ω)	Circuit impedance Ω: Ring final circuits only (measured end-to-end) r1	rn	r2	Fig 8 check (✓)	All circuits to be completed using R1R2 or R2, not both: R1 + R2	R2	Insulation resistance (Record lower reading): Test voltage V	L/L, L/N M(Ω)	L/E, N/E M(Ω)	Polarity (✓)	Max. Measured Zs (Ω)	RCD testing: Above 30mA IΔn ms	30mA or below 5 IΔn ms	Manual test button operation: RCD (✓)	AFDD (✓)
1/L1	HALL HEATERS	A	C	6	2.5	1.5	0.4	61009 RCD/	B	32	10	30	1.37	0.4	0.41	0.75	N/A	0.39	N/A	250	LIM	100	✓	0.51	28.9	18.9	✓	N/A
2/L1	SOCKETS KITCHEN,OFFICE,ENTRANCE HEATERS	A	C	7	2.5	1.5	0.4	61009 RCD/RCBO Type B	B	32	10	30	1.37	0.67	0.66	1.10	N/A	0.50	N/A	250	LIM	100	✓	0.41	28.8	19.3	✓	N/A
3/L1	SOCKETS HALL,CLASSROOM	A	C	5	2.5	1.5	0.4	61009 RCD/RCBO	B	32	10	30	1.37	0.52	0.52	0.99	N/A	0.62	N/A	250	LIM	100	✓	0.66	28.8	18.9	✓	N/A
4/L1	CLASS 2 HEATER	A	C	2	2.5	1.5	0.4	61009 RCD/	B	16	10	30	2.73	NA	NA	NA	N/A	0.42	N/A	250	LIM	100	✓	0.59	28.7	18.8	✓	N/A
5/L1	HALL HEATER NEAR	A	C	2	2.5	1.5	0.4	61009 RCD/	B	16	10	30	2.73	NA	NA	NA	N/A	0.35	N/A	250	LIM	100	✓	0.63	28.7	18.7	✓	N/A
6/L1	HEATER CLASS 1	A	C	2	2.5	1.5	0.4	61009 RCD/	B	16	10	30	2.73	NA	NA	NA	N/A	0.67	N/A	250	LIM	100	✓	0.79	28.8	18.8	✓	N/A
7/L1	.BOILER	A	C	2	2.5	1.5	0.4	61009 RCD/	B	20	10	30	2.19	NA	NA	NA	N/A	0.20	N/A	250	LIM	100	✓	0.39	28.8	18.8	✓	N/A
8/L1	Lights OFFICE,KITCHEN	A	C	6	1	1	0.4	61009 RCD/	B	6	10	30	7.28	NA	NA	NA	N/A	0.81	N/A	250	LIM	100	✓	1.45	39.9	14.8	✓	N/A
9/L1	HEATER CLASS 3	A	C	2	2.5	1.5	0.4	61009 RCD/	B	16	10	30	2.73	NA	NA	NA	N/A	0.63	N/A	250	LIM	100	✓	0.97	28.8	18.8	✓	N/A
10/L1	HEATER CLASS 3	A	C	2	2.5	1.5	0.4	61009 RCD/	B	16	10	30	2.73	NA	NA	NA	N/A	0.77	N/A	250	LIM	100	✓	0.82	28.7	18.7	✓	N/A
11/L1	HALL LIGHTS	A	C	9	1	1	0.4	61009 RCD/	B	6	10	30	7.28	NA	NA	NA	N/A	0.76	N/A	250	LIM	100	✓	1.33	28.7	18.7	✓	N/A
12/L1	CLASS 1,2,3 LIGHTS	A	C	7	1	1	0.4	60898 MCB T	B	6	10	N/A	7.28	NA	NA	NA	N/A	1.01	N/A	250	LIM	100	✓	1.71	N/A	N/A	✓	N/A

Details of circuits and/or installed equipment vulnerable to damage when testing: ANY ELECTRONIC DEVICES.

Date(s) dead testing: 10/11/2021 To 10/11/2021

Date(s) live testing: 10/11/2021 To 10/11/2021

Signature:

Tested by: Name (capital letters): ED ROWE Position: Technician Date: 10/11/2021

Wiring Types. **A** PVC/PVC, **B** PVC cables in metallic Conduit, **C** PVC cables in non-metallic Conduit, **D** PVC cables in metallic trunking, **E** PVC cables in non-metallic trunking, **F** PVC/SWA cables, **G** SWA/XPLE cables, **H** Mineral Insulated, **MW** Metal Work, **FM** Ferrous Metal, **O** Other

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Client	WESSEX RFCA	**Installation Address**	, MILITARY SIDINGS, TORS ROAD, OKEHAMPTON, DEVON	**Postcode**	EX20 1EF		

Distribution board details - Complete in every case

Location: ELECTRICAL CUPBOARD
Designation: DB 2
Num. of ways: 4 Num. of phases: 1
Supply polarity confirmed: ☑ Phase sequence confirmed: ☐

Complete only if the distribution board is not connected directly to the origin of the installation

Supply to distribution board is from:
Overcurrent protective device for the distribution circuit: BS(EN) NA Type NA Rating NA A Voltage NA V

Characteristics at this distribution board

Associated RCD(if any): BS (EN) N/A
Z_d 0.31 Ω No. of poles N/A
I_{pf} 1.5 kA IΔn N/A
Time delay (if applicable) N/A
Above 30mA (if applicable): Operating at 1 IΔn N/A ms
30mA or below: Operating at 5 IΔn N/A ms

Test instrument serial number(s)

Loop impedance 1008128101650691
Insulation resistance 1008128101650691
Continuity 1008128101650691
RCD 1008128101650691

CIRCUIT DETAILS / TEST RESULTS

Circuit No. and Line No.	Distribution board Designation / Circuit designation	Type of wiring	Ref. method	No. of points	Circuit conductors csa (mm²) L / N	Circuit conductors csa (mm²) CPC	Maximum disconnection	Overcurrent protective devices BS EN Number	Type No.	Rating (A)	Breaking capacity (KA)	RCD operating (mA)	BS 7671 Max. permitted Zs Other 100% (Ω)	Circuit impedance Ω: Ring final circuits only (measured end-to-end) r1	rn	r2	Fig 8 check (✓)	All circuits to be completed using R1R2 or R2, not both: R1 + R2	R2	Insulation resistance (Record lower reading) Test voltage V	L/L, L/N M(Ω)	L/E, N/E M(Ω)	Polarity (✓)	Max. Measured Zs (Ω)	RCD testing: Above 30mA IΔn ms	30mA or below 5 IΔn ms	Manual test button operation: RCD (✓)	AFDD (✓)
1/L3	EXTERNAL FLOOD LIGHTS	A	A	4	2.5	1.5	0.4	1361 Fuse H	1	15	6	N/A	3.11	NA	NA	NA	N/A	1.57	N/A	250	LIM	100	✓	1.79	N/A	N/A	✓	N/A
2/L3	CUPBOARD SOCKET	A	A	1	2.5	1.5	0.4	1361 Fuse H	1	15	6	N/A	3.11	NA	NA	NA	N/A	0.05	N/A	250	LIM	100	✓	0.38	N/A	N/A	✓	N/A
3/L3	SPARE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N/A	NA	NA	NA	NA	NA	N/A	NA	NA	NA	N/A	N/A
4/L3	STREET LIGHTS	A	A	3	2.5	1.5	0.4	60898 MCB T	B	6	6	N/A	7.28	NA	NA	NA	N/A	2.08	N/A	250	LIM	100	✓	2.29	N/A	N/A	✓	N/A

Details of circuits and/or installed equipment vulnerable to damage when testing: ANY ELECTRONIC DEVICES.

Date(s) dead testing: 10/11/2021 To 10/11/2021

Date(s) live testing: 10/11/2021 To 10/11/2021

Tested by: Name (capital letters): ED ROWE Position: Technician Date: 10/11/2021

Signature:

Wiring Types. **A** PVC/PVC, **B** PVC cables in metallic Conduit, **C** PVC cables in non-metallic Conduit, **D** PVC cables in metallic trunking, **E** PVC cables in non-metallic trunking, **F** PVC/SWA cables, **G** SWA/XPLE cables, **H** Mineral Insulated, **MW** Metal Work, **FM** Ferrous Metal, **O** Other

Outcomes

Acceptable condition:	Unacceptable condition: State	Improvement recommended:	Further Investigation:	Not Verified:	Limitation:	Not Applicable:
✓	C1 or C2	C3	FI	NV	L	N/A

In the outcome column use the codes above. Provide additional comment where appropriate. C1/C2/C3 and FI coded items to be recorded in section K of the condition report.

DB/CU Ref:	Entire Installation	DB/CU Location:	N/A

Item No.	Description	Outcome
1.0 CONSUMER UNIT/DISTRIBUTION BOARD(S)		
1.1	Adequacy of working space/accessibility to consumer unit/distribution board (132.12; 513.1)	✓
1.2	Security of fixing (134.1.1)	✓
1.3	Condition of enclosure(s) in terms of IP rating (Barriers etc) (416.2)	✓
1.4	Condition of enclosure(s) in terms of fire rating etc (421.1.6; 421.1.201; 526.5)	✓
1.5	Enclosure/obstacles not damaged/deteriorated so as to impair safety (651.2)	✓
1.5.1	Presence and effectiveness of obstacles (417.2)	N/A
1.6	Presence of main linked switch (as required by 462.1.201)	✓
1.7	Operation of main switch (functional check) (643.10)	✓
1.8	Manual operation of circuit-breakers and RCD(s) (test button) to prove disconnection (643.10)	✓
1.9	Correct identification of circuit details and protective devices (514.8.1; 514.9.1)	C3
1.10	Presence of RCD six-monthly test notice at or near consumer unit/distribution board (514.12.2)	C3
1.11	Presence of non-standard (mixed) cable colour warning notice at or near equipment, where required (514.14)	C3
1.12	Presence of alternative supply warning notice at or consumer unit/distribution board (514.15)	N/A
1.13	Presence of other required labelling (Please specify) (Section 514)	✓
1.14	Compatibility of protective devices, bases and other components; correct type and rating (no signs of unacceptable thermal damage, arcing or overheating) (411.3.2; 411.4; 411.5; 411.6; Sections 432; 433)	✓
1.15	Single-pole switching or protective devices in line conductors only (132.14.1, 530.3.3)	✓
1.16	Protection against mechanical damage where cables enter consumer unit/distribution board (132.14.1; 522.8.1; 522.8.5; 522.8.11)	✓
1.17	Protection against electromagnetic effects where cables enter ferromagnetic enclosures (521.5.1)	✓
1.18	RCD(s) provided for fault protection - includes RCBO(s)(411.4.204; 411.5.2; 531.2)	✓
1.19	RCD(s) provided for additional protection/requirements, where required - includes RCBO(s) (411.3.3; 415.1)	C2
1.20	Confirmation of indication that SPD is functional (651.4)	N/A
1.21	Confirmation that ALL conductor connections, including connections to the busbars are correctly located in terminals and are tight and secure (526.1)	✓
1.22	Adequate arrangements where a generating set operates as a switched alternative to the public supply (551.6)	N/A
1.23	Adequate arrangements where a generating set operates in parallel with the public supply (551.7)	N/A
2.0 FINAL CIRCUITS		
2.1	Identification of conductors (514.3.1)	✓
2.2	Cables correctly supported throughout their run (521.10.202; 522.8.5)	✓
2.3	Condition of insulation of live parts (416.1)	✓
2.4	Non-sheathed cables protected by enclosure in conduit, ducting or trunking. (521.10.1)	✓
2.4.1	To include the integrity of conduit and trunking systems (metallic and plastic)	✓
2.5	Adequacy of cables for current-carrying capacity with regard for the type and nature of installation (Section 523)	✓
2.6	Coordination between conductors and overload protective devices (433.1; 533.2.1)	✓
2.7	Adequacy of protective devices: type and rated current for fault protection (411.3)	✓
2.8	Presence and adequacy of circuit protective conductors (411.3.1; Section 543)	✓
2.9	Wiring system(s) appropriate for the type and nature of the installation and external influences (Section 522)	✓
2.10	Connected cables installed in prescribed zones (see Section D. Extent and limitations) (522.6.202)	✓
2.11	Cables concealed under floors, above ceilings or in walls/partitions, adequately protected against damage (522.6.204)	✓
2.12	**Provision of additional requirements for protection by RCD not exceeding 30 mA:**	
2.12.1	For all socket-outlets of rating 32 A or less unless exempt (4.11.3.3)	C2
2.12.2	For the supply of Mobile equipment not exceeding 32 A rating for use outdoors (411.3.3)	C2
2.12.3	For cables concealed in walls at a depth of less than 50 mm (522.6.202; 522.6.203)	C3
2.12.4	For cables concealed in walls/partitions containing metal parts regardless of depth (522.6.203)	C3
2.12.5	For circuits supplying luminaires within domestic (household) premises (411.3.4)	N/A
2.13	Provision of fire barriers, sealing arrangements and protection against thermal effects (Section 527)	✓
2.14	Band II cables segregated/separated from Band I cables (528.1)	✓
2.15	Cables segregated/separated from communications cabling (528.2)	✓
2.16	Cables segregated/separated from non-electrical services (528.3)	✓
2.17	**Termination of cables at enclosures - indicate extent of sampling in section d of the report (section 526)**	
2.17.1	Connections soundly made and under no undue strain (526.6)	C2

2.17.2	No basic insulation of a conductor visible outside enclosure (526.8)	✓
2.17.3	Connections of live conductors adequately enclosed (526.5)	C2
2.17.4	Adequately connected at point of entry to enclosure (glands, bushes etc.) (522.8.5)	✓
2.18	Condition of accessories including socket-outlets, switches and joint boxes (651.2 (v))	C2
2.19	Suitability of accessories for external influences (512.2)	✓
2.20	Adequacy or working space/accessibility to equipment (132.12; 513.1)	✓
2.21	Single-pole switching or protective devices in line conductors only (132.14.1; 530.3.3)	✓
3.0 ISOLATION AND SWITCHING		
3.1	**Isolators (Section 460; 537)**	
3.1.1	Presence and condition of appropriate devices (462; 537.2.7)	N/A
3.1.2	Acceptable location - state if local or remote from equipment in question (462; 537.2.7)	N/A
3.1.3	Capable of being secured in the OFF position (462.3)	N/A
3.1.4	Correct operation verified (643.10)	N/A
3.1.5	Clearly identified by position and/or durable marking (537.2.6)	N/A
3.1.6	Warning label posted in situations where live parts cannot be isolated by the operation of a single device (514.11.1; 537.1.2)	N/A
3.2	**Switching off for mechanical maintenance (Section 464; 537.3.2)**	
3.2.1	Presence and condition of appropriate devices (464.1; 527.3.2)	N/A
3.2.2	Acceptable location - state if local or remote from equipment in question (537.3.2.4)	N/A
3.2.3	Capable of being secured in the OFF position (462.3)	N/A
3.2.4	Correct operation verified (643.10)	N/A
3.2.5	Clearly identified by position and/or durable marking (537.3.2.4)	N/A
3.3	**Emergency switching/stopping (465; 537.3.3)**	
3.3.1	Presence and condition of appropriate devices (Section 465; 537.3.3; 537.4)	N/A
3.3.2	Readily accessible for operation where danger might occur (537.3.3.6)	N/A
3.3.3	Correct operation verified (643.10)	N/A
3.3.4	Clearly identified by position and/or durable marking (537.3.3.6)	N/A
3.4	**Functional switching (section 463; 537.3.1)**	
3.4.1	Presence and condition of appropriate devices (537.3.1.1; 537.3.1.2)	✓
3.4.2	Correct operation verified (537.3.1.1; 537.3.1.2)	✓
4.0 CURRENT-USING EQUIPMENT (PERMANENTLY CONNECTED)		
4.1	Condition of equipment in terms of IP rating etc (416.2)	✓
4.2	Equipment does not constitute a fire hazard (Section 421)	✓
4.3	Enclosure not damaged/deteriorated so as to impair safety (134.1.1; 416.2; 512.2)	✓
4.4	Suitability for the environment and external influences (512.2)	✓
4.5	Security of fixing (134.1.1)	✓
4.6	Cable entry holes in ceiling above luminaires, sized or sealed so as to restrict the spread of fire: List number and location of luminaires inspected (separate page) (527.2)	✓
4.7	**Recessed luminaires (downlighters)**	
4.7.1	Correct type of lamps fitted (559.3.1)	N/A
4.7.2	Installed to minimize build-up of heat by use of "fire rated" fittings, insulation displacement box or similar (421.1.2)	N/A
4.7.3	No signs of overheating to surrounding building fabric (559.4.1)	N/A
4.7.4	No signs of overheating to conductors/terminations (526.1)	N/A
5.0 PART 7 SPECIAL INSTALLATIONS OR LOCATIONS		
7.01	If any special installations or locations are present, list the particular inspections applied.	

8.0 Schedule of Tests

Results to be recorded on Schedule of Test Results

8.1	External earth loop impedance, Z^e	Yes
8.2	Installation earth electrode	N/A
8.3	Prospective fault current, I^{pf}	Yes
8.4	Continuity of Earth Conductors	Yes
8.5	Continuity of Circuit Protective Conductors	Yes
8.6	Continuity of ring final circuit	Yes
8.7	Continuity of Protective Bonding Conductors	Yes
8.8	Volt drop verified	N/A

8.9	Insulation Resistance between Live Conductors	Yes
8.10	Insulation Resistance between Live Conductors & Earth	Yes
8.11	Polarity (prior to energisation)	N/A
8.12	Polarity (after energisation) including phase sequence	Yes
8.13	Earth Fault Loop Impedance	Yes
8.14	RCDs/RCBOs including selectivity	Yes
8.15	Functional testing of RCD devices	Yes
8.16	Functional testing of AFDD(s) devices	N/A

Inspector's Name: Ed Rowe

Signature:

Date: 10/11/2021

Generic Continuation

Remarks:

DB 2 Remarks:
4/L3 - STREET LIGHTS: READINGS TAKEN AT FUSED ISOLATOR LOCATED AT THE BOTTOM OF THE LIGHTNG POLE.