ELECTRICAL INSTALLATION CONDITION REPORT

Certificate No. 6442 | Inspected by: M.ESPOSITO

SECTION A: DETAILS OF THE CLIENT/PERSON ORDERING THE REPORT

Name: RFCA WYVERN BARRACKS

Address: BUILDING 5, WYVERN BARRACKS, BARRACK ROAD, EXETER

Post code: EX2 6AE

SECTION B: REASON FOR PRODUCING THIS REPORT

Electrical installation condition report requested by client.

Date(s) on which inspection and testing was carried out: 08/01/2020

SECTION C: DETAILS OF THE INSTALLATION THAT IS THE SUBJECT OF THIS REPORT

Occupier: BULINDING 5 - WYVERN BARRACKS

Address: BULDING 5, WYVERN BARRACKS, BARRACK ROAD, EXETER

Details of premises: Commercial

Post code: EX2 6AE

Estimated age of wiring: >15 Years

Additional Details: N/A

Evidence of additions/alterations: Yes

Yes, estimate age:

Installations record available? (Regulation 621.1): NO

Date of last inspection: 05/01/2020

SECTION D: EXTENT AND LIMITATIONS OF INSPECTING AND TESTING

Extent of electrical installation covered by this report:

Visual inspection of suppliers terminal equipment, inspection & test of main protective & supplementary bonding & final circuits. Due to limitation of access, lighting circuits may be tested at the switch. Supplies not provided by a distributor (e.g. photovoltaic) are excluded.

Agreed limitations including the reasons (Regulation 634.2): Testing to be carried out in accordance with GN3 guidelines.

No disturbance of building fabric, fittings or sealed covers. No testing of boiler controls & circuits, emergency lighting, fire & intruder alarms and portable appliances. L-L IR test where practicable.

Operational Limitations including the reasons

Agreed with: Client

The inspection and testing detailed in this report and accompanying schedules have been carried out in accordance with BS 7671: 2018 (IET Wiring Regulations). It should be noted that cables concealed within trunking 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. Inspection of accessible roof space housing other electrical equipment only if practicable. 1 Limitation (LIM) 5.2 1 0 1 0 1 1 0 1 1 0 1

SECTION E: SUMMARY OF THE CONDITION OF THE INSTALLATION

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

On completion of any remedial works, the installation would be generally satisfactory

Overall assessment of the installation in terms of its suitability for continued use: Unsatisfactory

*An unsatisfactory assessment indicates that dangerous (code C1) and/or potentially dangerous (code C2) and/or further investigation has been deemed required (code FI) conditions have been identified.

SECTION 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 classed as 'Danger present' (code C1) or 'Potentially 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 'Improvements 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: 07/01/2025

SECTION 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 by: M.Esposito. | Signature:  | Position: INSPECTOR | Date: 08/01/2020

Authorised/Reviewed by:

Reviewed by: Tim Latter | Signature:  | Position: QS | Date: 08/01/2020

SECTION H: SCHEDULE(S)

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

The attached schedules are part of this document and this report is valid only when they are attached to it.

ELECTRICAL INSTALLATION CONDITION REPORT

Certificate No. 6442 Occupier BULINDING 5 - WYVERN BARRACKS

PARTICULARS OF SIGNATORIES OF THE ELECTRICAL INSTALLATION CERTIFICATE

Inspector

Name:	Tim Latter	Company:	Wessex Response		
Address:	Wincombe Lane	Email:	tim.latter@wessex.org		
CPS:	005682	Post Code:	SP7 8PJ	Telephone:	01747 852878

SECTION I: SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

Earth arrangements		Nature of supply parameters			Primary overcurrent protective device	
LIM		Nominal voltage. U/Uo (1)	230	V	BS(EN)	N/V
Number and type of live conductors		Nominal frequency. F(1)	50	Hz	Type	N/V
a.c	LIM	Prospective fault current. Ipf(2)	LIM	kA	Rated current (A)	N/V
Supply polarity confirmed	✓	External loop impedance. Ze(2)	LIM	O		

Note: (1) by enquiry. (2) by enquiry or measurement

Inspected by: M.ESPOSITO

Other sources of supply (as detailed on attached sheet) N/A

SECTION J: PARTICULARS OF INSTALLATION REFERRED TO IN REPORT

Means of earthing: Distributor's facility

Details of earth electrode (where applicable): Type N/A Location N/A Resistance to Earth O

Main protective conductors

Earthing conductor	Material	Copper	Csa	LIM	mm2	Connection/continuity verified	✓
Main protective bonding conductors	Material	Copper	Csa	10	mm2	Connection/continuity verified	✓

To.							
	Water installation pipes	✓	gas installation pipes	-	oil installation pipes	-	Structural steel -
	Lighting protection	-	other incoming services (specify)				

Main switch/switch fuse/circuit breaker/RCD (if primary, or only Distribution Board)

Location	STORE WALL			If RCD main switch	
BS(EN)	88	Current rating (A)	63	Related residual operating current (IΔn).	N/A
No. of poles	1	Fuse/device rating/setting (A)	N/A	Related time delay. ms	N/A
		Voltage rating (V)	1400	Measured operating time (IΔn).	N/A

Total No. of DBs:	2	Total No. of Circuits:	11	No. of C1 codes:_	0	No. of C2 codes:_	0	No. of C3 codes:_	1	No. of FI codes:_	1

Section K continued on next page:

Certificate No. 6442 Occupier BULINDING 5 - WYVERN BARRACKS

SECTION K: OBSERVATIONS AND READINGS

Referring to the attached schedule of inspection and test results, and subject to the limitations specified in the Extent & Limitations of Inspection and Testing section.

Observations (continued on additional form if required)	Classification Code
GENERAL - WARNING LABLES MISSING FROM DB'S	C3
DB Reference: DB 1 (DB .2) - 4 IMMERSION HEATER TRIPS WHEN RESET	FI

One of the following codes, as appropriate, has been allocated to each of the observations made to indicate the degree of urgency of remedial action required.
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.

ELECTRICAL INSTALLATION CONDITION REPORT

Certificate No. 6442

Occupier BULINDING 5 - WYVERN BARRACKS

Inspected by: M.ESPOSITO

Outcomes: Acceptable condition OK | Unacceptable condition C1 or C2 | Further investigation F1 | Not verified N/V | Limitation LIM | Not applicable N/A

Item No.	Description	Outcome
1.0	DISTRIBUTOR'S / SUPPY INTAKE EQUIPMENT	
1.1	Condition of service cable	N/V
1.2	Condition of service head	N/V
1.3	Condition of distributer's earthing arrangement	N/V
1.4	Condtion of meter tails - Distributor/Consumer	N/V
1.5	Condition of metering equipment	N/V
1.6	Condition of isolator (where present)	N/V
2.0	PRESENCE OF ADEQUATE ARRANGEMENTS FOR OTHER SOURCES e.g. MICROGENERATORS (551.6; 551.7)	N/A
3.0	EARTHING / BONDING ARRANGEMENTS (411.3; Chap 54)	
3.1	Presence and condition of distributor's earthing arrangement (542.1.2.1; 542.1.2.2)	OK
3.2	Presence and condition of earth electrode connection where applicable (542.1.2.3)	N/A
3.3	Provision of earthing / bonding labels at all appropriate locations (514.13)	OK
3.4	Confirmation of earthing conductor size (542.3; 543.1.1)	OK
3.5	Accessibility and condition of earthing conductor at MET (543.3.2)	OK
3.6	Condition of Confirmation of main protective bonding conductor sizes (544.1) f isolator (where present)	OK
3.7	Condition and accessibility of main protective bonding conductor connections (543.3.2; 544.1.2)	OK
3.8	Accessibility and condition of all protective bonding connections (543.3.2)	OK
4.0	CONSUMER UNIT(S) / DISTRIBUTION BOARD(S)	
4.1	Adequacy of working space / accessibility to consumer unit / distribution board (132.12; 513.1)	OK
4.2	Security of fixing (134.1.1)	OK
4.3	Condition of enclosure(s) in terms of IP rating etc (416.2)	OK
4.4	Condition of enclosure(s) in terms of fire rating etc (421.1.201;526.5)	OK
4.5	Enclosure not damaged/deteriorated so as to impair safety (621.2(iii))	OK
4.6	Presence of main linked switch (as required by 537.1.4)	OK
4.7	Operation of main switch (functional check) (612.13.2)	OK
4.8	Manual operation of circuit-breakers and RCDs to prove disconnection (612.13.2)	OK
4.9	Correct identification of circuit details and protective devices (514.8.1; 514.9.1)	OK
4.10	Presence of RCD quarterly test notice at or near consumer unit / distribution board (514.12.2)	OK
4.11	Presence of non-standard (mixed) cable colour warning notice at or near consumer unit / distribution board (514.14)	OK
4.12	Presence of alternative supply warning notice at or near consumer unit / distribution board (514.15)	N/A
4.13	Presence of other required labelling (please specify) (Section 514)	OK
4.14	Examination of protective device(s) and base(s); correct type and rating (no signs of unacceptable thermal damage, arcing or	OK
4.15	Single-pole protective devices in line conductor only (132.14.1; 530.3.2)	OK
4.16	Protection against mechanical damage where cables enter consumer unit / distribution board (522.8.1; 522.8.11)	OK
4.17	Protection against electromagnetic effects where cables enter consumer unit / distribution board / enclosures (521.5.1)	OK
4.18	RCD(s) provided for fault protection - includes RCBOs (411.4.9; 411.5.2; 531.2)	OK
4.19	RCD(s) provided for additional protection - includes RCBOs (411.3.3; 415.1)	OK
4.20	Confirmation of indication that SPD is functional (534.2.8)	N/A
4.21	Confirmation that ALL conductor connections , including connections to busbars, are correctly located in terminals and are tight and	LIM
4.22	Adequate arrangements where a generating set operates as a switched alternative to the public supply (551.6)	N/A
4.23	Adequate arrangements where a generating set operates in parallel with public supply (551.7)	N/A

Continued on Page4

Certificate No. 6442

Occupier BULINDING 5 - WYVERN BARRACKS

Inspected by: M.ESPOSITO

Outcomes: Acceptable condition OK | Unacceptable condition C1 or C2 | Further investigation F1 | Not verified N/V | Limitation LIM | Not applicable N/A

Item No.	Description	Outcome
5.0	FINAL CIRCUITS	
5.1	Identification of conductors (514.3.1)	OK
5.2	Cables correctly supported throughout their run (522.8.5)	LIM
5.3	Condition of insulation of live parts (416.1)	OK
5.4	Non-sheathed cables protected by enclosure in conduit, duct or trunking (521.10.1)	OK
	• To include the integrity of conduit and trunking systems (metallic and plastic)	OK
5.5	Adequacy of cables for current-carrying capacity with regard for the type and nature of installation (Section 523)	OK
5.6	Co-ordination between conductors and overload protective devices (433.1; 533.2.1)	OK
5.7	Adequacy of protective devices: type and rated current for fault protection (411.3)	OK
5.8	Presence and adequacy of circuit protective conductors (411.3.1.1; Section 543.1)	OK
5.9	Wiring system(s) appropriate for the type and nature of the installation and external influences (Section 522)	OK
5.10	Concealed cables installed in prescribed zones (see Section D: Extent and limitations) (522.6.101)	LIM
5.11	Cables concealed under floors, above ceilings or in walls/partitions, adequately protected against damage (see Section D. Extent and	LIM
5.12	Provision of additional protection by RCD not exceeding 30 mA:	
	• For all socket-outlets of rating 20 A or less provided for use by ordinary persons unless an exception is permitted (411.3.3)	OK
	• For supply to mobile equipment not exceeding 32 A rating for use outdoors (411.3.3)	OK
	• For cables concealed in walls at a depth of less than 50mm (522.6.202; 522.6.203)	OK
	• For cables concealed in walls /partitions containing metal parts regardless of depth (522.6.203)	OK
	• Final circuits supplying luminaires within a domestic (household) premises (411.3.4)	OK
5.13	Provision of fire barriers, sealing arrangements and protection against thermal effects (Section 527)	OK
5.14	Band II cables segregated / separated from Band I cables (528.1)	OK
5.15	Cables segregated / separated from communications cabling (528.2)	OK
5.16	Cables segregated / separated from non-electrical services (528.3)	OK
5.17	Termination of cables at enclosures - indicate extent of sampling in Section D of the report (Section 526)	10%
	• Connections soundly made and under no undue strain (526.6)	OK
	• No basic insulation of a conductor visible outside enclosure (526.8)	OK
	• Connections of live conductors adequately enclosed (526.5)	OK
	• Adequately connected at point of entry to enclosure (glands, bushes, etc.) (522.8.5)	OK
5.18	Condition of accessories including socket-outlets, switches and joint boxes (621.2(iii))	OK
5.19	Suitability of accessories for external influences (512.2)	OK
5.20	Adequency of working space/accessibility to equipment (132.12;513.1)	OK
5.21	Single-pole switching or protective devices in line conductors only (132.14.1, 530.3.2)	OK
6.0	LOCATION(S) CONTAINING A BATH OR SHOWER	
6.1	Additional protection for all low voltage (LV) circuits by RCD not exceeding 30 mA (701.411.3.3)	N/A
6.2	Where used as a protective measure, requirements for SELV or PELV met (701.414.4.5)	N/A
6.3	Shaver sockets comply with BS EN 61558-2-5 formerly BS 3535 (701.512.3)	N/A
6.4	Presence of supplementary bonding conductors, unless not required by BS 7671:2008 (701.415.2)	N/A
6.5	Low voltage (e.g. 230 volts) socket-outlets sited at least 3 m from zone 1 (701.512.3)	N/A
6.6	Suitability of equipment for external influences for installed location in terms of IP rating (701.512.2)	N/A
6.7	Suitability of equipment for installation in a particular zone (701.512.3)	N/A
6.8	Suitability of current-using equipment for a particular position within the location (701.55)	N/A
7.0	OTHER PART 7 SPECIAL INSTALL ATIONS OR LOCATIONS	
7.1	List other special installations or locations present, if any (record separately theresults of particular inspections applied).	N/A

Inspected by: M.Esposito. Signature:  Date: 07/01/2020

ELECTRICAL INSTALLATION CONDITION REPORT

Certificate No. 6442

Occupier: BULINDING 5 - WYVERN BARRACKS

DB Reference: SWF1

DB Location: STORE WALL

Company: Wessex Response

Correct polarity of supply confirmed: ✓

Phase sequence confirmed (where appropriate): -

Zs at DB (Ω) LIM Ipf at DB (kA) 0 No. of Ways 1

Circuits and/or installed equipment vulnerable to damage when testing:

Fed from: INTAKE Rating: 63

DB Switch: 88 Type: 2 Nominal Voltage: 230

DB Manufacturer/Type: W Phases: Single Phase

Inspected by: M.ESPOSITO

Signature:

Details of test instruments

Continuity N/A

Insulation Resistance N/A

Earth fault loop impedance N/A

RCD N/A

Earth electrode resistance N/A

Multifunction 101356211

07/01/2020

- Red cell indicates Over CCC
- Red cell indicates Max Zs exceeded

			Protective Device					Conductor Details			Ring Continuity (Ω)			(R1+R2) or R2 (Ω)		-----	Insulation Resistance		Polarity	Zs (Ω)	RCD (ms)			AFDD	Remarks
Circuit Number	Line Number	Circuit Description	BS (EN)	Type	Rating(A)	Breaking Capacity (kA)	RCD (ma)	Type of Wiring	Reference Method	Ring (✓)	Live (mm2)	Cpc (mm2)	r1 (Line)	rn (Neutral)	r2 (Cpc)	(R1 + R2)	R2	V (Insulation resistance test ✓	Live - Live	Live - E	✓ or X	Ω	@IΔn	@5IΔn	Test button operation ✓	Disconnection Time	Manual AFDD test button ope	Maximum Permitted Zs (Ω)	Observations
1		SUB MAINS DB1	88	2	63	10	N/A	D	B		16	16	N/A	N/A	N/A	0.34	N/A	500	LIM	LIM	[✓]	0.34	N/A	N/A		5	N/A	0.78	

ELECTRICAL INSTALLATION CONDITION REPORT

Certificate No. 6442

Occupier: BULINDING 5 - WYVERN BARRACKS

DB Reference: DB 1

DB Location: STORE WALL

Company: Wessex Response

Correct polarity of supply confirmed: ✓

Phase sequence confirmed (where appropriate): -

Zs at DB (Ω) 0.34 Ipf at DB (kA) 0.68 No. of Ways 13

Circuits and/or installed equipment vulnerable to damage when testing:

Fed from: SWF1, 1/S Rating: 125

DB Switch: 60947 Type: 3 Nominal Voltage: 230

DB Manufacturer/Type: MEMSHEIELD 3 Phases: Single Phase

Inspected by: M.ESPOSITO

Signature:

Details of test instruments

Continuity N/A

Insulation Resistance N/A

Earth fault loop impedance N/A

RCD N/A

Earth electrode resistance N/A

Multifunction 101356211

07/01/2020

- Red cell indicates Over CCC
- Red cell indicates Max Zs exceeded

			Protective Device						Conductor Details			Ring Continuity (Ω)			(R1+R2) or R2 (Ω)		-----	Insulation Resistance		Polarity	Zs (Ω)	RCD (ms)				AFDD		Remarks
Circuit Number	Line Number	Circuit Description	BS (EN)	Type	Rating(A)	Breaking Capacity (kA)	RCD (ma)	Type of Wiring	Reference Method	Ring (✓)	Live (mm2)	Cpc (mm2)	r1 (Line)	rn (Neutral)	r2 (Cpc)	(R1 + R2)	R2	V (Insulation resistance test ✓)	Live - Live	Live - E	✓ or X	Ω	@IΔn	@5IΔn	Test button operation ✓	Disconnection Time	Manual AFDD test button ope	Maximum Permitted Zs (Ω)	Observations
1		SOCKETS	61009	C	32	10	30	A	B	[✓]	2.5	2.5	LIM	LIM	LIM	0.13	N/A	500	LIM	>199	[✓]	0.47	28	9	[✓]	0.4	N/A	1667	
2		SOCKETS	61009	C	32	10	30	A	B	[✓]	2.5	2.5	LIM	LIM	LIM	0.18	N/A	500	LIM	>199	[✓]	0.52	28	8	[✓]	0.4	N/A	1667	
3		SOCKETS	61009	C	32	10	30	A	B	[✓]	2.5	2.5	LIM	LIM	LIM	0.17	N/A	500	LIM	>199	[✓]	0.51	29	9	[✓]	0.4	N/A	1667	
4		IM HEATER	61009	C	16	10	30	A	B		2.5	2.5	N/A	N/A	N/A	FI	N/A	500	LIM	LIM		FI	28	8	[✓]	0.4	N/A	1667	
5		BOILER	61009	C	10	10	30	A	B		2.5	2.5	N/A	N/A	N/A	0.16	N/A	500	LIM	>199	[✓]	0.50	28	9	[✓]	0.4	N/A	1667	
6		FIRE ALARM	61009	C	16	10	30	A	B		1.5	1.5	N/A	N/A	N/A	0.14	N/A	500	LIM	>199	[✓]	0.48	28	9	[✓]	0.4	N/A	1667	
7		LIGHTS	61009	C	10	10	30	A	B		1.5	1.5	N/A	N/A	N/A	0.48	N/A	500	LIM	>199	[✓]	0.82	29	8	[✓]	0.4	N/A	1667	
8		LIGHTS	61009	C	10	10	30	A	B		1.5	1	N/A	N/A	N/A	0.46	N/A	500	LIM	>199	[✓]	0.80	28	9	[✓]	0.4	N/A	1667	
9		DATA	61009	C	16	10	30	A	B		4	1.5	N/A	N/A	N/A	LIM	N/A	500	LIM	LIM	[✓]	LIM	28	9	[✓]	0.4	N/A	1667	
10		ELECTRIC WINDOWS	61009	C	10	10	30	A	B		1.5	1	N/A	N/A	N/A	0.36	N/A	500	LIM	>199	[✓]	0.70	28	9	[✓]	0.4	N/A	1667	
11		SPARE	--	--	--	--	--		--		--	--	--	--	--	--	--	--	--	--		--	--	--					
12		SPARE	--	--	--	--	--		--		--	--	--	--	--	--	--	--	--	--		--	--	--					
13		SPARE	--	--	--	--	--		--		--	--	--	--	--	--	--	--	--	--		--	--	--					

B5 WYVERN BARRACKS EICR

These schematics were created using U-Certify Electrics Pro as approximate estimates and should not be taken as exact.