ELECTRICAL INSTALLATION CONDITION REPORT

80348 - Master

Allianz

A. Details of the Client/Person Ordering the Report

Client: Environment Agency - NV10020850

Address:
Anglian Region
Kingfisher House
Goldhay Way, Orton Goldham
Peterborough
PE2 5ZR

B. Reason for Producing this Report

Purpose of this report:
To provide detailed results of the in-service periodic inspection and test of the installation as prescribed in accordance with IS3 Specification

Date(s) on which Inspection and testing was carried out: 30/11/2021

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

Installation: Fisheeries Lab, Ozone Lab & EP

Occupier: Environment Agency - NV10020850

Address:
Fish Diseases Lab
Central Area Office
Bromholme Lane
Brampton PE28 4NE

Description of premises:	Domestic	Commercial	Industrial
	N/A	N/A	✓

Other: N/A

Estimated age of wiring system: 23 yrs

Evidence of alterations or additions: ✓ If yes estimated Age >2 yrs

Record of Installation available: ✓ Records held By: Allianz Engineering Date of previous inspection: 28/11/2017

D. Extent and Limitations Inspection and Testing

Extent of Electrical Installation covered by this report:
For Extent comments;
--See Additional Page--

Agreed limitations including the reasons (See regulation 653.2)
For Agreed Limitations comments;
--See Additional Page--

Agreed with name: Gary - On Site Facilties.

Operational Limitations including the reasons (See page No 44 to 45)
For Operational Limitations comments;
--See Additional Page--

This inspection and testing detailed in this report and accompanying schedules have been carried out in accordance with BS7671:2018 (IET Wiring Regulations) as amended to July 2018
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. An inspection should be made within an accessible roof space housing other electrical equipment.

E. Summary of the Condition of the Installation

General condition of the installations (In terms of electrical safety)

For Summary of the Condition of the Installation comments;
--See Additional Page--

Overall assessment of the installation: Unsatisfactory

*An unsatisfactory assessment indicates that dangerous (code C1) and/or potentially dangerous (code C2) conditions have been identified.

F. Recommendations

Where the overall assessment of the suitability of the installation for continued use above is stated as UNSATISFACTORY , We recommend that any observations classified 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)*.
Observation classified as 'Improvement recommended' (code C3) should be given due consideration.
Subject to the necessary remedial action being taken We recommend that the installation is further inspected and tested by 30/11/2024

G. Declaration

We, being the person(s) responsible for the inspection and testing of the electrical installation (as indicated by 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 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.

Trading Title and address:
Powertest Ltd,
Delta House ,
Bridge Road ,
Haywards Heath ,
West Sussex , RH16 1UA

NICEIC Enrolment Number: 23384

Branch No. (If Applicable): N/A

Inspected and tested by:

Name: Steven Davis Position: Grade 1 Test Engineer Signature: Date: 30/11/2021

Report authorised for issue by:

Name: Steven Cope Position: Qualifying Supervisor Signature: Date: 17/12/2021

H. Schedule(s)

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

13 Schedule(s) of inspection and 13 Schedule(s) of test results are attached

I. Supply Characteristics and Earthing Arrangements

Earthing Arrangements		Number and Type of Live Conductors						Nature of Supply Parameters			Supply protective device	
TN-S	N/A	a.c.	✓			d.c.	N/A	Nominal Voltage	$U^{(1)}$ 400	V	BS(EN)	LIM
TN-C-S	✓	1-Phase (2 wire)	N/A	1-Phase (3 wire)	N/A	2 Wire	N/A	Nominal Voltage	$U_0^{(1)}$ 230	V	Type	N/A
TN-C	N/A	2-Phase (3 wire)	N/A			3 Wire	N/A	Nominal frequency	$f^{(1)}$ 50	Hz	Nominal current rating	LIM A
TT	N/A	3-Phase (3 wire)	N/A	3-Phase (4 wire)	✓	Other	N/A	Prospective fault current	$Ipf^{(2)}$ 12.13	kA	Short circuit capacity	N/A kA
IT	N/A	Other	N/A					External loop impedance	$Ze^{(2)}$ 0.03	Ω		
		Confirmation of supply polarity	✓					Number of supplies	2			
								(Note: (1) by enquiry, (2) by enquiry or by measurement)				

J. Particulars of Installation Referred to in the Report

Means of earthing

Distributor's facility	✓
Installation earth electrode	N/A

Details of installation Earth Electrode (where applicable)

Type (e.g. rod(s), tape etc.)	N/A	Location	N/A
Resistance to Earth	N/A Ω	Method of measurement	N/A

Main Protective Conductors

Tick boxes and enter details as applicable

	Material	csa		Continuity Verified	Connection Verified
Earthing Conductor	Copper	120	mm^2	✓	✓
Main protective bonding conductors	Copper	16	mm^2	✓	✓

Bonding of Incoming Service

Water installation pipes	✓	Gas installation pipes	✓	Structural Steel	N/A	Lightning protection	N/A
Oil installation pipes	N/A						
Other incoming service(s)	N/A	Please State	N/A				

Maximum Demand (Load): N/A **Amps**

Protective measure(s) against electric shock: ADS

Main Switch / Switch-Fuse / Circuit-Breaker / RCD

Location	Main Intake Room	Current rating	400 A	**if RCD main switch**	
Type BS(EN)	60947-2 MCCB	No of poles 4	Fuse/Device rating or setting	400 A	Rated residual operation current, IΔn	N/A mA
Supply Conductors material	Copper	Supply Conductors csa 120 mm^2	Voltage rating	400 V	Rated time delay	N/A ms
					RCD Operating time at, IΔn	N/A ms

K. Observations

Referring to the attached schedule(s) of Inspection and Test Results, and subject to the limitations specified at the Extent and Limitations of the Inspection and testing section.

No remedial action is required. N/A The following observations are made ✓

Item No	Observations	Code
1	6.0 LOCATION(S) CONTAINING A BATH OR SHOWER 6.1 Additional protection for all low voltage (LV)	C2
	circuits by RCD not exceeding 30 mA (701.411.3.3), Comment: 1 - No 30mA RCD protection provided for	
	electric shower in Fisheries building ladies WC DB8 1L2	
2	5.0 FINAL CIRCUITS 5.8 Presence and adequacy of circuit protective conductors (411.3.1; Section 543),	C2
	Comment: DB13 14L2 - Room 5 Socket have only 94v between Live and Earth - unable to isolate circuit to	
	--Observations continue on continuation sheet(s)--	

One of the following codes, as appropriate, has been allocated to each of the observations made above 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	0
C2 - Potentially dangerous - urgent remedial action required	6
C3 - Improvement recommended	2
FI - Further investigation required without delay	1

CONDITION REPORT INSPECTION SCHEDULE FOR DOMESTIC AND SIMILAR PREMISES WITH UP TO 100A SUPPLY

Note: this form is suitable for many types of smaller installations, not exclusively domestic.

Outcomes	Acceptable condition	✓	Unacceptable condition	State C1 or C2	Improvement recommended	State C3	Further investigation	FI	Not verified	N/V	Limitation	LIM	Not applicable	N/A

Item No	Description	Outcome	Comments
1.0	**EXTERNAL CONDITION OF INTAKE EQUIPMENT (VISUAL INSPECTION ONLY)**		
1.1	Service cable	✓	No
1.2	Service head	✓	No
1.3	Earthing arrangement	✓	No
1.4	Meter tails	✓	No
1.5	Metering equipment	✓	No
1.6	Isolator (where present)	N/A	No
2.0	**PRESENCE OF ADEQUATE ARRANGEMENTS FOR OTHER SOURCES SUCH AS MICROGENERATORS (551.6; 551.7)**	N/A	No
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)	✓	No
3.2	Presence and condition of earth electrode connection where applicable (542.1.2.3)	N/A	No
3.3	Provision of earthing/bonding labels at all appropriate locations (514.13.1)	✓	No
3.4	Confirmation of earthing conductor size (542.3; 543.1.1)	✓	No
3.5	Accessibility and condition of earthing conductor at MET (543.3.2)	✓	No
3.6	Confirmation of main protective bonding conductor sizes (544.1)	C2 (see section K)	Yes
3.7	Condition and accessibility of main protective bonding conductor connections (543.3.2; 544.1.2)	✓	No
3.8	Accessibility and condition of other protective bonding connections (543.3.1;543.3.2)	✓	No
4.0	**CONSUMER UNIT(S) / DISTRIBUTION BOARD(S)**		
4.1	Adequacy of working space/accessibility to consumer unit/distribution board (132.12; 513.1)	✓	No
4.2	Security of fixing (134.1.1)	✓	No
4.3	Condition of enclosure(s) in terms of IP rating etc (416.2)	✓	No
4.4	Condition of enclosure(s) in terms of fire rating etc (421.1.201; 526.5)	✓	No
4.5	Enclosure not damaged/deteriorated so as to impair safety (651.2)	✓	No
4.6	Presence of main linked switch (as required by 462.1.201)	✓	No
4.7	Operation of main switch (functional check) (643.10)	✓	No
4.8	Manual operation of circuit-breakers and RCDs to prove disconnection (643.10)	✓	No
4.9	Correct identification of circuit details and protective devices (514.8.1; 514.9.1)	FI (see section K)	Yes
4.10	Presence of RCD six-monthly test notice at or near consumer unit/distribution board (514.12.2)	✓	No
4.11	Presence of non-standard (mixed) cable colour warning notice at or near consumer unit/distribution board (514.14)	✓	No
4.12	Presence of alternative supply warning notice at or near consumer unit/distribution board (514.15)	✓	No
4.13	Presence of other required labelling (please specify) (Section 514)	N/A	No
4.14	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)	✓	No
4.15	Single-pole switching or protective devices in line conductor only (132.14.1; 530.3.3)	✓	No
4.16	Protection against mechanical damage where cables enter consumer unit/distribution board (132.14.1; 522.8.1; 522.8.5; 522.8.11)	✓	No
4.17	Protection against electromagnetic effects where cables enter consumer unit/distribution board/enclosures (521.5.1)	✓	No
4.18	RCD(s) provided for fault protection - includes RCBOs (411.4.204; 411.5.2; 531.2)	✓	No
4.19	RCD(s) provided for additional protection/requirements - includes RCBOs (411.3.3;415.1)	✓	No
4.20	Confirmation of indication that SPD is functional (651.4)	✓	No
4.21	Confirmation that ALL conductor connections, including connections to busbars, are correctly located in terminals and are tight and secure (526.1)	✓	No
4.22	Adequate arrangements where a generating set operates as a switched alternative to the public supply (551.6)	✓	No
4.23	Adequate arrangements where a generating set operates in parallel with the public supply (551.7)	✓	No
5.0	**FINAL CIRCUITS**		
5.1	Identification of conductors (514.3.1)	✓	No
5.2	Cables correctly supported throughout their run (521.10.202; 522.8.5)	✓	No
5.3	Condition of insulation of live parts (416.1)	✓	No

CONDITION REPORT INSPECTION SCHEDULE FOR DOMESTIC AND SIMILAR PREMISES WITH UP TO 100A SUPPLY CONTINUED

Note: this form is suitable for many types of smaller installations not exclusively domestic.

Outcomes	Acceptable condition	✓	Unacceptable condition	State C1 or C2	Improvement recommended	State C3	Further investigation	FI	Not verified	N/V	Limitation	LIM	Not applicable	N/A

Item No	Description	Outcome	Comments
5.0	**FINAL CIRCUITS (Continued)**		
5.4	Non-sheathed cables protected by enclosure in conduit, ducting or trunking (521.10.1)	✓	No
5.4.1	To include the integrity of conduit and trunking systems (metallic and plastic)	✓	No
5.5	Adequacy of cables for current-carrying capacity with regard for the type and nature of installation (Section 523)	✓	No
5.6	Coordination between conductors and overload protective devices (433.1; 533.2.1)	C2 (see section K)	Yes
5.7	Adequacy of protective devices: type and rated current for fault protection (411.3)	C2 (see section K)	Yes
5.8	Presence and adequacy of circuit protective conductors (411.3.1; Section 543)	C2 (see section K)	Yes
5.9	Wiring system(s) appropriate for the type and nature of the installation and external influences (Section 522)	✓	No
5.10	Concealed cables installed in prescribed zones (see Section D. Extent and limitations) (522.6.202)	LIM	No
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)	LIM	No
5.12	Provision of additional requirements for protection by RCD not exceeding 30 mA:		
5.12.1	For all socket-outlets of rating 32 A or less, unless an exception is permitted (411.3.3)	✓	No
5.12.2	For the supply of mobile equipment not exceeding 32 A rating for use outdoors (411.3.3)	✓	No
5.12.3	For cables concealed in walls at a depth of less than 50 mm (522.6.202; 522.6.203)	✓	No
5.12.4	For cables concealed in walls/partitions containing metal parts regardless of depth (522.6.203)	✓	No
5.12.5	Final circuits supplying luminaires within domestic (household) premises (411.3.4)	N/A	No
5.13	Provision of fire barriers, sealing arrangements and protection against thermal effects (Section 527)	LIM	No
5.14	Band II cables segregated/separated from Band I cables (528.1)	✓	No
5.15	Cables segregated/separated from communications cabling (528.2)	✓	No
5.16	Cables segregated/separated from non-electrical services (528.3)	✓	No
5.17	Termination of cables at enclosures - indicate extent of sampling in Section D of the report (Section 526)		
5.17.1	Connections soundly made and under no undue strain (526.6)	✓	No
5.17.2	No basic insulation of a conductor visible outside enclosure (526.8)	✓	No
5.17.3	Connections of live conductors adequately enclosed (526.5)	✓	No
5.17.4	Adequately connected at point of entry to enclosure (glands, bushes etc.) (522.8.5)	✓	No
5.18	Condition of accessories including socket-outlets, switches and joint boxes (651.2(v))	C2 (see section K)	Yes
5.19	Suitability of accessories for external influences (512.2)	✓	No
5.20	Adequacy of working space/accessibility to equipment (132.12; 513.1)	✓	No
5.21	Single-pole switching or protective devices in line conductors only (132.14.1;530.3.3)	✓	No
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)	C2 (see section K)	Yes
6.2	Where used as a protective measure, requirements for SELV or PELV met (701.414.4.5)	✓	No
6.3	Shaver sockets comply with BS EN 61558-2-5 formerly BS 3535 (701.512.3)	✓	No
6.4	Presence of supplementary bonding conductors, unless not required by BS 7671:2018 (701.415.2)	✓	No
6.5	Low voltage (e.g. 230 volt) socket-outlets sited at least 3 m from zone 1 (701.512.3)	✓	No
6.6	Suitability of equipment for external influences for installed location in terms of IP rating (701.512.2)	✓	No
6.7	Suitability of accessories and controlgear etc. for a particular zone (701.512.3)	✓	No
6.8	Suitability of current-using equipment for particular position within the location (701.55)	✓	No
7.0	**OTHER PART 7 SPECIAL INSTALLATIONS OR LOCATIONS**		
7.1	List all other special installations or locations present, if any. (Record separately the results of particular inspections applied.)	Number of locations: 0	No

Inspected By

Name: Steven Davis

Date: 30/11/2021

Signature: 

Board Details

TO BE COMPLETED IN EVERY CASE

Location of Distribution Board: Main Building

Distribution board designation: DB Main Panel

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Supply to distribution board is from: N/A

No of phases: N/A Nominal Voltage: N/A V

Overcurrent protective device for the distribution circuit

Type BS(EN): N/A Rating: N/A A

Associated RCD (if any)

BS(EN): N/A

RCD No of Poles: N/A

RCD Rating: N/A mA

Circuit Details

Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection times (s)	Overcurrent protective device					RCD	Maximum permitted Zs (Ω)
					Live mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)	
1/TP	Not Covered on this report	\	\	\	\	\	\	\		\	\	\	\	\
2/TP	Not Covered on this report	\	\	\	\	\	\	\		\	\	\	\	\
3/TP	Sub Mains(DB Interserve)	F	D	2021	35	84	5	60947-2 MCCB			100	35	N/A	0.23
4/TP	Sub Mains(DB 13)	F	D	2021	35	84	5	60947-2 MCCB			100	35	N/A	0.23
5/TP	Not Covered on this report	\	\	\	\	\	\	\		\	\	\	\	\
6/TP	Not Covered on this report	\	\	\	\	\	\	\		\	\	\	\	\
7/TP	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
8/TP	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
9/TP	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
10/TP	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
11/TP	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
12/L1	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
12/L2	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
12/L3	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
13/TP	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
14/TP	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
15/TP	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
16/TP	Not Covered on this report	\	\	\	\	\	\	\		\	\	\	\	\
17/L1	Not Covered on this report	\	\	\	\	\	\	\		\	\	\	\	\
17/L2	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
17/L3	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
18/TP	Not Covered on this report	\	\	\	\	\	\	\		\	\	\	\	\

Wiring Code

A	B	C	D	E	F	G	H	O
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	Other

Board Tests

TO BE COMPLETED IN EVERY CASE

Correct supply polarity confirmed ✓ | Phase sequence confirmed (where appropriate) N/A

Supplementary Conductors ✓

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Zs N/A Ω Ipf N/A kA

Operating times of associated RCD (if any) At I Δ n N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	2170068	RCD	2170068
Insulation resistance	2170068	Multi-function	N/A
Continuity	2170068	Other	N/A

Details of circuits and/or equipment vulnerable to damage

N/A

Circuit Tests

Circuit number and phase	Circuit Impedances Ω					Insulation resistance					Polarity (v)	Maximum measured earth fault loop impedance Ω	RCD		AFDD Test button operation	Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Test Voltage	Live/ Live MΩ	Live/ Neutral MΩ	Live/ Earth MΩ	Earth/ Neutral MΩ			Disconnection time (ms)	Test button operation		
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)											
1/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
2/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
3/TP	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.08	N/A	N/A		NO
4/TP	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.07	N/A	N/A		NO
5/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
6/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
7/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
17/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
17/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO

Tested By

Signature		Position	Test Engineer
Name	Richard Johns	Date of testing	01/12/2021

Board Details

TO BE COMPLETED IN EVERY CASE

Location of Distribution Board: Fisheries Lab Main Entrance Electric Cupboard

Distribution board designation: DB 13

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Supply to distribution board is from: SubMains(DB Main Panel, 4/TP)

No of phases: 3 | Nominal Voltage: 400 V

Overcurrent protective device for the distribution circuit

Type BS(EN): 60947-2 MCCB | Rating: 100 A

Associated RCD (if any)

BS(EN): N/A

RCD No of Poles: N/A

RCD Rating: N/A mA

Circuit Details

Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection times (s)	Overcurrent protective device					RCD		Maximum permitted Zs (Ω)
					Live mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)		
1/TP	Sub Mains(DB 15)	F	E	2021	25	76	5	60898 MCB		C	63	10	N/A		0.35
2/TP	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-		-
3/TP	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-		-
4/L1	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-		-
4/L2	Histology Sockets	A	C	2021	4	1.5	0.4	60898 MCB		B	32	10	N/A		1.37
4/L3	Room 15 & corridor sockets	A	C	2021	2x4	2x1.5	0.4	61009 RCD/RCBO		B	32	10	30		1.37
5/L1	Room 1 & 4 & entrance lobby Sockets	A	C	2021	2x4	2x1.5	0.4	61009 RCD/RCBO		B	32	10	30		1.37
5/L2	Room 4 Cooker Socket - As Marked	A	C		6	2.5	0.4	60898 MCB		B	32	10	N/A		1.37
5/L3	Room 4 Water Heater - As Marked	A	C		2.5	1.5	0.4	60898 MCB		C	20	10	N/A		1.09
6/L1	Room 2 AC unit - As Marked	A	C		2.5	1.5	0.4	60898 MCB		C	20	10	N/A		1.09
6/L2	Room 3 Sockets	A	C	2021	2x2.5	2x1.5	0.4	61009 RCD/RCBO		B	32	10	30		1.37
6/L3	Not Marked For Duty	A	C		2.5	1.5	0.4	60898 MCB		C	16	10	N/A		1.37
7/TP	Fume cupboard - As Marked	A	C		4	4	0.4	60898 MCB		C	16	10	N/A		1.37
8/L1	Room 3 Desk Sockets	A	C	2021	2x2.5	2x2.5	0.4	61009 RCD/RCBO		B	32	10	30		1.37
8/L2	Room 2 & 3 RCD sockets	A	C	2021	1.5	1.5	0.4	61009 RCD/RCBO		B	32	10	30		1.37
8/L3	Gents hand Dryer WC - As Marked	A	C		2.5	1.5	0.4	60898 MCB		C	20	10	N/A		1.09
9/TP	Room 2 Fume Cupboard - found in off position	A	C		1.5	1.5	0.4	60898 MCB		C	6	10	N/A		3.64
10/TP	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-		-
11/TP	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-		-
12/L1	Room 3 Sockets	A	C	2021	2.5	1.5	0.4	61009 RCD/RCBO		B	20	10	30		2.19
12/L2	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-		-
12/L3	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-		-
13/L1	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-		-
13/L2	Room 3 Bench sockets	A	C	2021	2.5	1.5	0.4	61009 RCD/RCBO		B	16	10	30		2.73

Wiring Code

A	B	C	D	E	F	G	H	O
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	Other

SCHEDULE OF CIRCUIT TESTS FOR THE INSTALLATION

80348 - Master

Board Tests

TO BE COMPLETED IN EVERY CASE

Correct supply polarity confirmed ✓ | Phase sequence confirmed (where appropriate) N/A

Supplementary Conductors ✓

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Zs 0.07 Ω Ipf 5.67 kA

Operating times of associated RCD (if any) At I Δ n N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	2170068	RCD	2170068
Insulation resistance	2170068	Multi-function	N/A
Continuity	2170068	Other	N/A

Details of circuits and/or equipment vulnerable to damage

N/A

Circuit Tests

Circuit number and phase	Circuit Impedances Ω					Insulation resistance					Polarity (v)	Maximum measured earth fault loop impedance Ω	RCD		AFDD Test button operation	Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Test Voltage	Live/ Live MΩ	Live/ Neutral MΩ	Live/ Earth MΩ	Earth/ Neutral MΩ			Disconnection time (ms)	Test button operation		
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)											
1/TP	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.27	N/A	N/A		NO
2/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.76	N/A	N/A		NO
4/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.81	93/26	✓		NO
5/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.54	39/29	✓		NO
5/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
5/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
6/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
6/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.36	29/29	✓		NO
6/L3	N/A	N/A	N/A	N/A	N/A	N/V	N/A	N/A	N/V	N/A		N/V	N/A	N/A		NO
7/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
8/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	1.57	29/29	✓		NO
8/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	1.00	39/29	✓		NO
8/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
9/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
10/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.60	29/29	✓		NO
12/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.56	29/29	✓		NO

Tested By

Signature		Position	Test Engineer
Name	Richard Johns	Date of testing	02/12/2021

Board Details

TO BE COMPLETED IN EVERY CASE

Location of Distribution Board: Fisheries Lab Main Entrance Electric Cupboard

Distribution board designation: DB 13

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Supply to distribution board is from: SubMains(DB Main Panel, 4/TP)

No of phases: 3 | Nominal Voltage: 400 V

Overcurrent protective device for the distribution circuit

Type BS(EN): 60947-2 MCCB | Rating: 100 A

Associated RCD (if any)

BS(EN): N/A

RCD No of Poles: N/A

RCD Rating: N/A mA

Circuit Details

Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection times (s)	Overcurrent protective device					RCD		Maximum permitted Zs (Ω)
					Live mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)		
13/L3	Room 2 & 3 Sockets	A	C	2021	4	1.5	0.4	61009 RCD/RCBO		B	32	10	30		1.37
14/L1	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-		-
14/L2	Room 5 sockets/ server	A	C	LIM	2.5	1.5	0.4	61009 RCD/RCBO		C	20	10	30		1.09
14/L3	Room 1 sockets	A	C	2021	2x2.5	2x1.5	0.4	61009 RCD/RCBO		B	32	10	30		1.37
15/L1	Room 5 Sockets RHS	A	C	2021	2x2.5	2x1.5	0.4	61009 RCD/RCBO		B	32	10	30		1.37
15/L2	Lights autopsy - As Marked	A	C		1.5	1	0.4	60898 MCB		B	6	10	N/A		7.28
15/L3	Lights Room 3 - As Marked	A	C		1.5	1	0.4	60898 MCB		B	6	10	N/A		7.28
16/L1	Room 9 & Wc lts - As Marked	A	C		1.5	1	0.4	60898 MCB		B	6	10	N/A		7.28
16/L2	Lights Dark Room - As Marked	A	C		1.5	1	0.4	60898 MCB		B	6	10	N/A		7.28
16/L3	Room 5 Sockets LHS	A	C	2021	4	1.5	0.4	61009 RCD/RCBO		B	32	10	30		1.37
17/L1	Room 9 Sockets	A	C	2021	2x2.5	2x1.5	0.4	61009 RCD/RCBO		B	32	10	30		1.37
17/L2	Dark Room Sockets Rooms 6 & 6A	A	C	2021	2x2.5	2x1.5	0.4	61009 RCD/RCBO		B	32	10	30		1.37
17/L3	Fish Tank Socket entrance	A	C	N/V	2.5	1.5	0.4	60898 MCB		C	20	10	N/A		1.09
18/L1	Lighting Room 2,3 & 5 - As Marked	A	C		1.5	1	0.4	60898 MCB		B	6	10	N/A		7.28
18/L2	Entrance Lights	A	C	2021	1.5	1	0.4	60898 MCB		B	6	10	N/A		7.28
18/L3	Door Entry - As Marked	A	C		1.5	1	0.4	60898 MCB		B	6	10	N/A		7.28

Wiring Code

A	B	C	D	E	F	G	H	O
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	Other

Board Tests

TO BE COMPLETED IN EVERY CASE

Correct supply polarity confirmed: ✓ | Phase sequence confirmed (where appropriate): N/A | Supplementary Conductors: ✓

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Zs 0.07 Ω Ipf 5.67 kA

Operating times of associated RCD (if any) At I Δ n N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	2170068	RCD	2170068
Insulation resistance	2170068	Multi-function	N/A
Continuity	2170068	Other	N/A

Details of circuits and/or equipment vulnerable to damage

N/A

Circuit Tests

Circuit number and phase	Circuit Impedances Ω: Ring final circuits only (measure end to end) r1 (Line)	rn (Neutral)	r2 (cpc)	All circuits (At least one column to be completed) (R1 + R2)	(R2)	Insulation resistance: Test Voltage	Live/Live MΩ	Live/Neutral MΩ	Live/Earth MΩ	Earth/Neutral MΩ	Polarity (v)	Maximum measured earth fault loop impedance Ω	RCD: Disconnection time (ms)	Test button operation	AFDD Test button operation	Remarks see continuation sheet
13/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.51	29/29	✓		NO
14/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/L2	N/A	N/A	N/A	N/A	N/A	LIM	N/A	N/A	LIM	N/A		LIM	N/A	N/A		NO
14/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.56	29/29	✓		NO
15/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.66	29/29	✓		NO
15/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
15/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
16/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
16/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
16/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.82	39/29	✓		NO
17/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	1.40	29/29	✓		NO
17/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.73	30/29	✓		NO
17/L3	N/A	N/A	N/A	N/A	N/A	N/V	N/A	N/A	N/V	N/A		N/V	N/A	N/A		NO
18/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
18/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.83	N/A	N/A		NO
18/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO

Tested By

Signature		Position	Test Engineer
Name	Richard Johns	Date of testing	02/12/2021

Board Details

TO BE COMPLETED IN EVERY CASE

Location of Distribution Board: Fisheries Switchroom

Distribution board designation: DB Interserve

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Supply to distribution board is from: SubMains(DB Main Panel, 3/TP)

No of phases: 3 | Nominal Voltage: 400 V

Overcurrent protective device for the distribution circuit

Type BS(EN): 60947-2 MCCB | Rating: 100 A

Associated RCD (if any)

BS(EN): N/A

RCD No of Poles: N/A

RCD Rating: N/A mA

Circuit Details

Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection times (s)	Overcurrent protective device					RCD		Maximum permitted Zs (Ω)
					Live mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)		
1/TP	Sub Mains(DB 16 Switch Fuse)	D	B	2021	25	25	5	60947-2 MCCB			100	35	N/A		0.23
2/TP	Sub Mains(DB 9)	D	B	2021	25	25	5	60947-2 MCCB			100	35	N/A		0.23
3/TP	Sub Mains(DB 8)	D	B	2021	25	25	5	60947-2 MCCB			100	35	N/A		0.23
4/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-		-
5/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-		-
6/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-		-
7/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-		-

Wiring Code

A	B	C	D	E	F	G	H	O
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	Other

Board Tests

TO BE COMPLETED IN EVERY CASE

Correct supply polarity confirmed ✓ | Phase sequence confirmed (where appropriate) N/A

Supplementary Conductors ✓

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Zs 0.08 Ω Ipf 8.73 kA

Operating times of associated RCD (if any) At I Δ n N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	101291679	RCD	101291679
Insulation resistance	101291679	Multi-function	N/A
Continuity	101291679	Other	N/A

Details of circuits and/or equipment vulnerable to damage

N/A

Circuit Tests

Circuit number and phase	Circuit Impedances Ω: Ring final circuits only (measure end to end) r1 (Line)	rn (Neutral)	r2 (cpc)	All circuits (At least one column to be completed) (R1 + R2)	(R2)	Insulation resistance: Test Voltage	Live/Live MΩ	Live/Neutral MΩ	Live/Earth MΩ	Earth/Neutral MΩ	Polarity (v)	Maximum measured earth fault loop impedance Ω	RCD: Disconnection time (ms)	Test button operation	AFDD Test button operation	Remarks see continuation sheet
1/TP	N/A	N/A	N/A	N/A	N/A	LIM	N/A	N/A	LIM	N/A	✓	0.12	N/A	N/A		NO
2/TP	N/A	N/A	N/A	N/A	N/A	LIM	N/A	N/A	LIM	N/A	✓	0.10	N/A	N/A		NO
3/TP	N/A	N/A	N/A	N/A	N/A	LIM	N/A	N/A	LIM	N/A	✓	0.10	N/A	N/A		NO
4/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature		Position	Grade 1 Test Engineer
Name	Steven Davis	Date of testing	02/12/2021

Board Details

TO BE COMPLETED IN EVERY CASE

Location of Distribution Board: Fisheries Switchroom

Distribution board designation: DB 8

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Supply to distribution board is from: SubMains(DB Interserve, 3/TP)

No of phases: 3 Nominal Voltage: 400 V

Overcurrent protective device for the distribution circuit

Type BS(EN): 60947-2 MCCB Rating: 100 A

Associated RCD (if any)

BS(EN): N/A

RCD No of Poles: N/A

RCD Rating: N/A mA

Circuit Details

Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection times (s)	Overcurrent protective device					RCD	Maximum permitted Zs (Ω)
					Live mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)	
1/L1	RCD Module Covering	-	-	-	-	-	-	-	-	-	-	-	-	-
1/L2	Sockets - Experimental Wet Room	A	B	2021	2x4	2x1.5	0.4	3871 MCB		2	32	9	30	0.97
1/L3	Electric Shower - Ladies Shower Room	A	B	2021	6	4	0.4	3871 MCB		2	32	9	N/A	0.97
2/L1	Room 23 CCTV Fused Connection Units - As Marked	A	B		2.5	1.5	0.4	3871 MCB		2	10	9	N/A	3.12
2/L2	Autopsy Lab Formlehycle Machine - As Marked	A	B		2x4	2x1.5	0.4	3871 MCB		2	32	9	N/A	0.97
2/L3	AC room Pm - As Marked	G	C		4	4	0.4	3871 MCB		2	20	9	N/A	1.56
3/L1	Wet Room & Computer sockets.	A	B	2021	1.5	1	0.4	3871 MCB		2	6	9	N/A	5.20
3/L2	Sockets - Switchroom 18 & Hub Socket outlets/	A	B	2021	4	2.5	0.4	3871 MCB		2	32	9	N/A	0.97
3/L3	Lighting - Stairwell & Room 38.	H	C	2021	1.5	6.3	0.4	3871 MCB		2	16	9	N/A	1.95
4/L1	Lighting - Room 37 Microscopy - As Marked	H	C		1.5	6.3	0.4	3871 MCB		2	16	9	N/A	1.95
4/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L3	Not Marked For Duty	A	B	N/V	2.5	2.5	0.4	3871 MCB		2	16	9	N/A	1.95
5/TP	Room 15 Tank C/P - As Marked	F	C		1.5	17	0.4	3871 MCB		2	20	9	N/A	1.56
6/L1	Not Marked For Duty	H	C	N/V	2.5	8	0.4	3871 MCB		2	16	9	N/A	1.95
6/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L3	Not Marked For Duty	A	B	N/V	2.5	1.5	0.4	3871 MCB		2	16	9	N/A	1.95
7/L1	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
7/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
7/L3	Room18 Switchroom Socket	F	C	2021	4	2.5	0.4	3871 MCB		2	20	10	N/A	1.56
8/L1	RCD Module Covering	-	-	-	-	-	-	-	-	-	-	-	-	-
8/L2	Tank Room Pump & Autopsy Sockets.	A	B	2021	2x4	2x2.5	0.4	3871 MCB		3	32	10	30	0.68
8/L3	Room 38 Sockets (1st Floor)	A	B	2021	2x2.5	2x1.5	0.4	3871 MCB		2	32	10	N/A	0.97
9/L1	Lighting - Rooms 39 & 40 - As Marked	A	B		1.5	1	0.4	3871 MCB		2	6	10	N/A	5.20
9/L2	Not Marked For Duty	H	C	N/V	1.5	1.5	0.4	3871 MCB		2	6	10	N/A	5.20

Wiring Code

A	B	C	D	E	F	G	H	O
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	Other

Board Tests

TO BE COMPLETED IN EVERY CASE

Correct supply polarity confirmed ✓ | Phase sequence confirmed (where appropriate) ✓

Supplementary Conductors ✓

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Zs 0.10 Ω Ipf 4.21 kA

Operating times of associated RCD (if any) At I Δ n N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	101291679	RCD	101291679
Insulation resistance	101291679	Multi-function	N/A
Continuity	101291679	Other	N/A

Details of circuits and/or equipment vulnerable to damage

N/A

Circuit Tests

Circuit number and phase	Circuit Impedances Ω					Insulation resistance					Polarity (v)	Maximum measured earth fault loop impedance Ω	RCD		AFDD Test button operation	Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Test Voltage	Live/ Live MΩ	Live/ Neutral MΩ	Live/ Earth MΩ	Earth/ Neutral MΩ			Disconnection time (ms)	Test button operation		
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)											
1/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.54	37/14	✓		YES
1/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.20	N/A	N/A		NO
2/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
2/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
2/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
3/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.32	N/A	N/A		NO
3/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.34	N/A	N/A		NO
3/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.76	N/A	N/A		NO
4/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
4/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
5/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
6/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
6/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
7/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.21	N/A	N/A		NO
8/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.73	36/11	✓		NO
8/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.29	N/A	N/A		NO
9/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
9/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO

Tested By

Signature		Position	Grade 1 Test Engineer
Name	Steven Davis	Date of testing	02/12/2021

Board Details

TO BE COMPLETED IN EVERY CASE

Location of Distribution Board: Fisheries Switchroom

Distribution board designation: DB 8

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Supply to distribution board is from: SubMains(DB Interserve, 3/TP)

No of phases: 3 Nominal Voltage: 400 V

Overcurrent protective device for the distribution circuit

Type BS(EN): 60947-2 MCCB Rating: 100 A

Associated RCD (if any)

BS(EN): N/A

RCD No of Poles: N/A

RCD Rating: N/A mA

Circuit Details

Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection times (s)	Overcurrent protective device					RCD		Maximum permitted Zs (Ω)
					Live mm^2	cpc mm^2		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)		
9/L3	Autopsy Small Office Socket Outlets.	A	B	2021	2x2.5	2x1.5	0.4	3871 MCB		2	32	10	N/A		0.97
10/L1	Sub Mains(DB Lab Room 9)	A	B	2021	10	4	5	60898 MCB		C	40	10	N/A		0.55
10/L2	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-		-
10/L3	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-		-
11/TP	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-		-
12/L1	Lighting - Chemical Stores - As Marked	F	C		6	36	0.4	3871 MCB		2	6	10	N/A		5.20
12/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-		-
12/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-		-
13/TP	Room 40 Lab Equipment - As Marked	F	C		1.5	17	0.4	3871 MCB		3	6	10	N/A		3.64
14/TP	Sub Mains(DB 10)	D	B	2021	25	16	5	3871 MCB		2	63	10	N/A		0.49
15/TP	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-		-
16/L1	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-		-
16/L2	Lighting - Room 18 Switchroom - As Marked	H	C		1.5	6.3	0.4	3871 MCB		2	6	10	N/A		5.20
16/L3	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-		-

Wiring Code

A	B	C	D	E	F	G	H	O
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	Other

Board Tests

TO BE COMPLETED IN EVERY CASE

Correct supply polarity confirmed ✓ | Phase sequence confirmed (where appropriate) ✓

Supplementary Conductors ✓

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Zs 0.10 Ω Ipf 4.21 kA

Operating times of associated RCD (if any) At I Δ n N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	101291679	RCD	101291679
Insulation resistance	101291679	Multi-function	N/A
Continuity	101291679	Other	N/A

Details of circuits and/or equipment vulnerable to damage

N/A

Circuit Tests

Circuit number and phase	Circuit Impedances Ω					Insulation resistance					Polarity (v)	Maximum measured earth fault loop impedance Ω	RCD		AFDD Test button operation	Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Test Voltage	Live/ Live MΩ	Live/ Neutral MΩ	Live/ Earth MΩ	Earth/ Neutral MΩ			Disconnection time (ms)	Test button operation		
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)											
9/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.49	N/A	N/A		NO
10/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.22	N/A	N/A		NO
10/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
12/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
14/TP	N/A	N/A	N/A	N/A	N/A	LIM	N/A	N/A	LIM	N/A	✓	0.12	N/A	N/A		NO
15/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
16/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature		Position	Grade 1 Test Engineer
Name	Steven Davis	Date of testing	02/12/2021

Board Details

TO BE COMPLETED IN EVERY CASE

Location of Distribution Board: Fisheries Switchroom

Distribution board designation: DB 9

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Supply to distribution board is from: SubMains(DB Interserve, 2/TP)

No of phases: 3 Nominal Voltage: 400 V

Overcurrent protective device for the distribution circuit

Type BS(EN): 60947-2 MCCB Rating: 100 A

Associated RCD (if any)

BS(EN): N/A

RCD No of Poles: N/A

RCD Rating: N/A mA

Circuit Details

Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection times (s)	Overcurrent protective device					RCD	Maximum permitted Zs (Ω)
					Live mm^2	cpc mm^2		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)	
1/L1	Pump House C form - As Marked	F	C		16	16	5	3871 MCB		2	50	10	N/A	0.62
1/L2	Boiler House Supply	A	C	2021	4	2.5	5	3871 MCB		2	32	9	30	0.97
1/L3	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
2/TP	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
3/L1	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
3/L2	Not Marked For Duty	A	C	N/V	2.5	2.5	0.4	3871 MCB		2	16	10	N/A	1.95
3/L3	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
4/TP	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L1	Not Marked For Duty	G	C	N/V	4	4	0.4	3871 MCB		3	20	9	N/A	1.09
5/L2	Ladies Toilet - Fused Connection Unit	A	B	2021	2.5	1.5	0.4	3871 MCB		2	16	9	N/A	1.95
5/L3	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L1	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L2	Ladies Toilet - Water Heater.	A	B	2021	2.5	1.5	0.4	3871 MCB		2	16	9	N/A	1.95
6/L3	Socket Outlets - Room 40 Lab Left Hand Side	A	B	2021	2x2.5	2x1.5	0.4	3871 MCB		2	32	9	30	0.97
7/L1	Socket Outlets - Room 40 Lab Right Hand Side	A	B	2021	2x2.5	2x1.5	0.4	3871 MCB		2	32	9	30	0.97
7/L2	Sub Mains(DB 11)	A	C	2021	6	6	5	3871 MCB		2	32	9	N/A	0.97
7/L3	Socket Outlets Room 40 Lab Right Hand Side	A	B	2021	2x2.5	2x1.5	0.4	3871 MCB		2	32	9	30	0.97
8/L1	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
8/L2	Lighting - Room 19 Ladies Toilet, Corridor & Room 31	D	B	2021	1.5	1.5	0.4	3871 MCB		2	6	9	N/A	5.20
8/L3	Wet Room Corridor Machinery - As Marked	D	B		6	6	0.4	3871 MCB		2	32	9	N/A	0.97
9/L1	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
9/L2	Switch Fuse - Room 31 - As Marked	A	B		6	6	0.4	3871 MCB		2	16	9	N/A	1.95
9/L3	A/C Heater Unit - Room 40 Lab - As Marked	D	B		2.5	2.5	0.4	3871 MCB		2	16	9	N/A	1.95
10/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-

Wiring Code

A	B	C	D	E	F	G	H	O
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	Other

Board Tests

TO BE COMPLETED IN EVERY CASE

Correct supply polarity confirmed: N/A

Phase sequence confirmed (where appropriate): N/A

Supplementary Conductors: ✓

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Zs: 0.10 Ω Ipf: 4.41 kA

Operating times of associated RCD (if any) At $I\Delta n$: N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	101291679	RCD	101291679
Insulation resistance	101291679	Multi-function	N/A
Continuity	101291679	Other	N/A

Details of circuits and/or equipment vulnerable to damage

N/A

Circuit Tests

Circuit number and phase	Circuit Impedances Ω					Insulation resistance					Polarity (v)	Maximum measured earth fault loop impedance Ω	RCD		AFDD Test button operation	Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Test Voltage	Live/ Live MΩ	Live/ Neutral MΩ	Live/ Earth MΩ	Earth/ Neutral MΩ			Disconnection time (ms)	Test button operation		
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)											
1/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
1/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.21	N/A	N/A		NO
1/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/L2	N/A	N/A	N/A	N/A	N/A	N/V	N/A	N/A	N/V	N/A		N/V	N/A	N/A		NO
3/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L1	N/A	N/A	N/A	N/A	N/A	N/V	N/A	N/A	N/V	N/A		N/V	N/A	N/A		NO
5/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.49	N/A	N/A		NO
5/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.54	N/A	N/A		NO
6/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.70	13/18	✓		NO
7/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.53	3018	✓		NO
7/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.39	N/A	N/A		NO
7/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.44	18/18	✓		NO
8/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.59	N/A	N/A		NO
8/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
9/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
9/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
10/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature:

Position: Grade 1 Test Engineer

Name: Steven Davis

Date of testing: 02/12/2021

Board Details

TO BE COMPLETED IN EVERY CASE

Location of Distribution Board: Fisheries Switchroom

Distribution board designation: DB 9

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Supply to distribution board is from: SubMains(DB Interserve, 2/TP)

No of phases: 3 | Nominal Voltage: 400 V

Overcurrent protective device for the distribution circuit

Type BS(EN): 60947-2 MCCB | Rating: 100 A

Associated RCD (if any)

BS(EN): N/A

RCD No of Poles: N/A

RCD Rating: N/A mA

Circuit Details

Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection times (s)	Overcurrent protective device					RCD	Maximum permitted Zs (Ω)
					Live mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)	
10/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
10/L3	A/C Heater Unit - Room 40 Lab & Room 38 Sockets	D	B	2021	4	4	0.4	3871 MCB		2	32	9	N/A	0.97
11/TP	Hager Rcd Isolator - Room 40 Lab	D	B		4	4	0.4	3871 MCB		2	20	9	30	1.56
12/TP	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
13/L1	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
13/L2	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
13/L3	Not Marked For Duty	A	B	N/V	2.5	2.5	0.4	3871 MCB		2	16	9	N/A	1.95
14/TP	20A Isolator - Room 40 Lab - As Marked	D	B		4	4	0.4	3871 MCB		2	16	9	N/A	1.95
15/TP	MEM Excel Isolator - Room 37 - As Marked	F	C		6	40	0.4	3871 MCB		2	20	9	N/A	1.56
16/L1	Pump House Sockets Via Drawing Room Store 32A MEM Isolator	D	B	2021	6	6	0.4	3871 MCB		2	32	9	30	0.97
16/L2	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
16/L3	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-

Wiring Code

A	B	C	D	E	F	G	H	O
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	Other

SCHEDULE OF CIRCUIT TESTS FOR THE INSTALLATION

80348 - Master

Board Tests

TO BE COMPLETED IN EVERY CASE

Correct supply polarity confirmed: N/A

Phase sequence confirmed (where appropriate): N/A

Supplementary Conductors: ✓

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Zs: 0.10 Ω Ipf: 4.41 kA

Operating times of associated RCD (if any) At $I\Delta n$: N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	101291679	RCD	101291679
Insulation resistance	101291679	Multi-function	N/A
Continuity	101291679	Other	N/A

Details of circuits and/or equipment vulnerable to damage

N/A

Circuit Tests

Circuit number and phase	Circuit Impedances Ω					Insulation resistance					Polarity (v)	Maximum measured earth fault loop impedance Ω	RCD		AFDD Test button operation	Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Test Voltage	Live/ Live MΩ	Live/ Neutral MΩ	Live/ Earth MΩ	Earth/ Neutral MΩ			Disconnection time (ms)	Test button operation		
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)											
10/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.55	N/A	N/A		NO
11/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
12/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/L3	N/A	N/A	N/A	N/A	N/A	N/V	N/A	N/A	N/V	N/A		N/V	N/A	N/A		NO
14/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
15/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
16/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.49	37/19	✓		NO
16/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature:

Position: Grade 1 Test Engineer

Name: Steven Davis

Date of testing: 02/12/2021

Board Details

TO BE COMPLETED IN EVERY CASE

Location of Distribution Board: Corridor Outside Of Room 28

Distribution board designation: DB 10

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Supply to distribution board is from: SubMains(DB 8, 14/TP)

No of phases: 3 | Nominal Voltage: 400 V

Overcurrent protective device for the distribution circuit

Type BS(EN): 3871 MCB 2 | Rating: 63 A

Associated RCD (if any)

BS(EN): N/A

RCD No of Poles: N/A

RCD Rating: N/A mA

Circuit Details

Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection times (s)	Overcurrent protective device					RCD	Maximum permitted Zs (Ω)
					Live mm^2	cpc mm^2		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)	
1/L1	Room 32 Sockets	D	B	2021	4	2.5	0.4	3871 MCB		2	20	9	N/A	1.56
1/L2	Room 33 & 34 Lighting - As Marked	D	B		1.5	1.5	0.4	3871 MCB		2	10	9	N/A	3.12
1/L3	Room 34 Sockets	D	B	2021	2.5	1.5	0.4	3871 MCB		2	16	9	N/A	1.95
2/L1	Room 32 Lighting - As Marked	D	B		1.5	1.5	0.4	3871 MCB		2	6	9	N/A	5.20
2/L2	Room 33 Sockets	D	B	2021	2.5	2.5	0.4	3871 MCB		2	20	9	N/A	1.56
2/L3	Garage Sockets & Room 39	D	B	2021	2x2.5	2x1.5	0.4	3871 MCB		3	32	9	N/A	0.68
3/L1	Garage Lighting Including Emergency Fittings - As Marked	D	B		1.5	1.5	0.4	3871 MCB		2	6	9	N/A	5.20
3/L2	Room 28, 29, 30 & 31 Sockets & CCTV Fused Connection Unit	D	B	2021	3x2.5	3x1.5	0.4	3871 MCB		3	32	9	N/A	0.68
3/L3	Room 21 & 22 Sockets	D	B	2021	2x2.5	2x1.5	0.4	3871 MCB		3	32	9	N/A	0.68
4/L1	Room 21 & 22 Lighting Including Emergency Fittings - As Marked	D	B		1.5	1.5	0.4	3871 MCB		2	10	9	N/A	3.12
4/L2	Room 20 Drawing Store Sockets & Ladies Hand Dryer	D	B	2021	2.5	1.5	0.4	3871 MCB		2	16	9	N/A	1.95
4/L3	Room 20 Lighting	D	B	2021	1.5	1.5	0.4	3871 MCB		2	6	9	N/A	5.20
5/L1	Not Marked For Duty	D	B		2.5	1.5	0.4	3871 MCB		2	16	9	N/A	1.95
5/L2	Not Marked For Duty	D	B		2.5	1.5	0.4	3871 MCB		2	20	9	N/A	1.56
5/L3	Corridor Sockets	D	B	2021	2.5	1.5	0.4	3871 MCB		3	16	9	N/A	1.36
6/L1	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L2	Not Marked For Duty	D	B		1.5	1	0.4	60898 MCB		C	10	10	N/A	2.19
6/L3	External Pump House Panel - As Marked	D	B		6	2.5	0.4	60898 MCB		C	32	10	N/A	0.68
7/L1	Room 23 Sockets	D	B	2021	4	1.5	0.4	3871 MCB		3	20	9	N/A	1.09
7/L2	Room 25 Sockets	D	B	2021	4	1.5	0.4	3871 MCB		3	20	9	N/A	1.09
7/L3	Room 26 Sockets	D	B	2021	4	1.5	0.4	3871 MCB		2	20	9	N/A	1.56
8/L1	Room 23 Lighting - As Marked	D	B		1.5	1.5	0.4	3871 MCB		2	6	9	N/A	5.20
8/L2	Room 24 Sockets	D	B	2021	2.5	1.5	0.4	3871 MCB		2	20	9	N/A	1.56
8/L3	Room 24 Fused Connection Unit Far End - As Marked	D	B		2.5	1.5	0.4	3871 MCB		2	16	9	N/A	1.95

Wiring Code

A	B	C	D	E	F	G	H	O
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	Other

SCHEDULE OF CIRCUIT TESTS FOR THE INSTALLATION

80348 - Master

Board Tests

TO BE COMPLETED IN EVERY CASE

Correct supply polarity confirmed ✓ | Phase sequence confirmed (where appropriate) ✓

Supplementary Conductors ✓

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Zs 0.12 Ω Ipf 3.6 kA

Operating times of associated RCD (if any) At I Δ n N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	101291679	RCD	101291679
Insulation resistance	101291679	Multi-function	N/A
Continuity	101291679	Other	N/A

Details of circuits and/or equipment vulnerable to damage

N/A

Circuit Tests

Circuit number and phase	Circuit Impedances Ω					Insulation resistance					Polarity (v)	Maximum measured earth fault loop impedance Ω	RCD		AFDD Test button operation	Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Test Voltage	Live/ Live MΩ	Live/ Neutral MΩ	Live/ Earth MΩ	Earth/ Neutral MΩ			Disconnection time (ms)	Test button operation		
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)											
1/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.62	N/A	N/A		NO
1/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
1/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.27	N/A	N/A		NO
2/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
2/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.53	N/A	N/A		NO
2/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.32	N/A	N/A		NO
3/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
3/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.53	N/A	N/A		NO
3/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	299	N/A	✓	0.39	N/A	N/A		YES
4/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
4/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	299	N/A	✓	0.37	N/A	N/A		NO
4/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.63	N/A	N/A		NO
5/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
5/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
5/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.22	N/A	N/A		NO
6/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
6/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
7/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.66	N/A	N/A		NO
7/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.56	N/A	N/A		NO
7/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.24	N/A	N/A		NO
8/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
8/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.64	N/A	N/A		NO
8/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO

Tested By

Signature		Position	Grade 1 Test Engineer
Name	Steven Davis	Date of testing	02/12/2021

Board Details

TO BE COMPLETED IN EVERY CASE

Location of Distribution Board: Corridor Outside Of Room 28

Distribution board designation: DB 10

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Supply to distribution board is from: SubMains(DB 8, 14/TP)

No of phases: 3 | Nominal Voltage: 400 V

Overcurrent protective device for the distribution circuit

Type BS(EN): 3871 MCB 2 | Rating: 63 A

Associated RCD (if any)

BS(EN): N/A

RCD No of Poles: N/A

RCD Rating: N/A mA

Circuit Details

Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection times (s)	Overcurrent protective device					RCD	Maximum permitted Zs (Ω)
					Live mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)	
9/L1	Room 24 MEM Switch Above Door - As Marked	D	B		2.5	1.5	0.4	3871 MCB		2	16	9	N/A	1.95
9/L2	Room 24, 25, 26 Lighting - As Marked	D	B		1.5	1.5	0.4	3871 MCB		2	6	9	N/A	5.20
9/L3	Room 27, 28, 29, & Corridor Lighting - As Marked	D	B		1.5	1.5	0.4	3871 MCB		2	10	9	N/A	3.12
10/L1	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
10/L2	Room 25 Fused Connection Unit - As Marked	D	B		2.5	1.5	0.4	3871 MCB		3	16	9	N/A	1.36
10/L3	Room 25 Socket & Fused Connection Unit	D	B	2021	2.5	1.5	0.4	3871 MCB		3	16	9	N/A	1.36
11/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
12/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-

Wiring Code

A	B	C	D	E	F	G	H	O
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	Other

Board Tests

TO BE COMPLETED IN EVERY CASE

Correct supply polarity confirmed ✓ | Phase sequence confirmed (where appropriate) ✓

Supplementary Conductors ✓

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Zs 0.12 Ω Ipf 3.6 kA

Operating times of associated RCD (if any) At I Δ n N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	101291679	RCD	101291679
Insulation resistance	101291679	Multi-function	N/A
Continuity	101291679	Other	N/A

Details of circuits and/or equipment vulnerable to damage

N/A

Circuit Tests

Circuit number and phase	Circuit Impedances Ω: Ring final circuits only (measure end to end) r1 (Line)	r1 (Neutral)	r2 (cpc)	All circuits (At least one column to be completed) (R1 + R2)	(R2)	Insulation resistance: Test Voltage	Live/Live MΩ	Live/Neutral MΩ	Live/Earth MΩ	Earth/Neutral MΩ	Polarity (v)	Maximum measured earth fault loop impedance Ω	RCD: Disconnection time (ms)	Test button operation	AFDD Test button operation	Remarks see continuation sheet
9/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
9/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
9/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
10/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
10/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.78	N/A	N/A		NO
11/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature		Position	Grade 1 Test Engineer
Name	Steven Davis	Date of testing	02/12/2021

Board Details

TO BE COMPLETED IN EVERY CASE

Location of Distribution Board: Fisheries Switchroom

Distribution board designation: DB 16 Switch Fuse

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Supply to distribution board is from: SubMains(DB Interserve, 1/TP)

No of phases: 3 Nominal Voltage: 400 V

Overcurrent protective device for the distribution circuit

Type BS(EN): 60947-2 MCCB Rating: 100 A

Associated RCD (if any)

BS(EN): N/A

RCD No of Poles: N/A

RCD Rating: N/A mA

Circuit Details

Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection times (s)	Overcurrent protective device					RCD	Maximum permitted Zs (Ω)
					Live mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)	
1/TP	Sub Mains(DB 16)	F	D	2021	25	76	5	88-2 Fuse HRC		gG	100	80	N/A	0.42

Wiring Code

A	B	C	D	E	F	G	H	O
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	Other

Board Tests

TO BE COMPLETED IN EVERY CASE

Correct supply polarity confirmed ✓ | Phase sequence confirmed (where appropriate) ✓

Supplementary Conductors ✓

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Zs 0.12 Ω Ipf 3.84 kA

Operating times of associated RCD (if any) At $I\Delta n$ N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	101291679	RCD	101291679
Insulation resistance	101291679	Multi-function	N/A
Continuity	101291679	Other	N/A

Details of circuits and/or equipment vulnerable to damage

N/A

Circuit Tests

Circuit number and phase	Circuit Impedances Ω: Ring final circuits only (measure end to end) r_1 (Line)	r_n (Neutral)	r_2 (cpc)	All circuits (At least one column to be completed) $(R_1 + R_2)$	(R_2)	Insulation resistance: Test Voltage	Live/Live MΩ	Live/Neutral MΩ	Live/Earth MΩ	Earth/Neutral MΩ	Polarity (v)	Maximum measured earth fault loop impedance Ω	RCD: Disconnection time (ms)	Test button operation	AFDD Test button operation	Remarks see continuation sheet
1/TP	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.22	N/A	N/A		NO

Tested By

Signature		Position	Grade 1 Test Engineer
Name	Steven Davis	Date of testing	02/12/2021

Board Details

TO BE COMPLETED IN EVERY CASE

Location of Distribution Board: EP Building External Electrical Cupboard

Distribution board designation: DB 16

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Supply to distribution board is from: SubMains(DB 16 Switch Fuse,

No of phases: 3 Nominal Voltage: 400 V

Overcurrent protective device for the distribution circuit

Type BS(EN): 88-2 Fuse HRC Rating: 100 A

Associated RCD (if any)

BS(EN): N/A

RCD No of Poles: N/A

RCD Rating: N/A mA

Circuit Details

Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection times (s)	Overcurrent protective device					RCD	Maximum permitted Zs (Ω)
					Live mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)	
1/L1	Lighting - Main Office - As Marked	D	B		1.5	1	0.4	60898 MCB		B	6	10	30	7.28
1/L2	Lighting - Main Office - As Marked	D	B		1.5	1	0.4	60898 MCB		B	6	10	30	7.28
1/L3	Lighting - Main Office - As Marked	D	B		1.5	1	0.4	60898 MCB		B	6	10	30	7.28
2/L1	Lighting - Main Office - As Marked	D	B		1.5	1	0.4	60898 MCB		B	6	10	30	7.28
2/L2	Lighting - Main Office - As Marked	D	B		1.5	1	0.4	60898 MCB		B	6	10	30	7.28
2/L3	Lighting - Main Office - As Marked	D	B		1.5	1	0.4	60898 MCB		B	6	10	N/A	7.28
3/L1	Lighting - Main Office - As Marked	D	B		1.5	1	0.4	60898 MCB		B	6	10	N/A	7.28
3/L2	Lighting - Main Office - As Marked	D	B		1.5	1	0.4	60898 MCB		B	6	10	N/A	7.28
3/L3	Lighting - Main Office - As Marked	D	B		1.5	1	0.4	60898 MCB		B	6	10	N/A	7.28
4/L1	Lighting - Main Office - As Marked	D	B		1.5	1	0.4	60898 MCB		B	6	10	N/A	7.28
4/L2	Lighting - Main Office - As Marked	D	B		1.5	1	0.4	60898 MCB		B	6	6	N/A	7.28
4/L3	Lighting - Main Office	D	B		1.5	1	0.4	60898 MCB		B	6	6	N/A	7.28
5/L1	Lighting - Meeting Room 1	D	B	2021	1.5	1	0.4	60898 MCB		B	6	6	N/A	7.28
5/L2	Lighting - Ladies WC - As Marked	D	B		1.5	1	0.4	60898 MCB		B	6	6	N/A	7.28
5/L3	Lighting - Gents wc	D	B	2021	1.5	1	0.4	60898 MCB		B	6	6	N/A	7.28
6/L1	Lighting - Meeting Room 2	D	B	2021	1.5	1	0.4	60898 MCB		B	6	6	N/A	7.28
6/L2	Lighting - Womens & Disabled - As Marked	D	B		1.5	1	0.4	60898 MCB		B	6	6	N/A	7.28
6/L3	Sockets - Kitchen, & corridor	D	B	2021	2x2.5	2x1.5	0.4	61009 RCD/RCBO		B	32	10	30	1.37
7/L1	Sockets - Main Office	D	B	2021	2x2.5	2x1.5	0.4	61009 RCD/RCBO		B	32	10	30	1.37
7/L2	Sockets - Main Office	D	B	2021	2x2.5	2x1.5	0.4	61009 RCD/RCBO		B	32	10	30	1.37
7/L3	Sockets - Main Office	D	B	2021	2x2.5	2x1.5	0.4	61009 RCD/RCBO		B	32	10	30	1.37
8/L1	Sockets - Main Office	D	B	2021	2x2.5	2x1.5	0.4	61009 RCD/RCBO		B	32	10	30	1.37
8/L2	Sockets - Main Office	D	B	2021	2x2.5	2x1.5	0.4	61009 RCD/RCBO		B	32	10	30	1.37
8/L3	Sockets - Main Office	D	B	2021	2x2.5	2x1.5	0.4	61009 RCD/RCBO		B	32	10	30	1.37

Wiring Code

A	B	C	D	E	F	G	H	O
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	Other

Board Tests

TO BE COMPLETED IN EVERY CASE

Correct supply polarity confirmed: ✓ | Phase sequence confirmed (where appropriate): N/A

Supplementary Conductors: ✓

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Zs 0.22 Ω | Ipf 2.09 kA

Operating times of associated RCD (if any) At $I\Delta n$ N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	101291679	RCD	101291679
Insulation resistance	101291679	Multi-function	N/A
Continuity	101291679	Other	N/A

Details of circuits and/or equipment vulnerable to damage

N/A

Circuit Tests

Circuit number and phase	Circuit Impedances Ω: Ring final circuits only (measure end to end) r_1 (Line)	r_n (Neutral)	r_2 (cpc)	All circuits (At least one column to be completed) $(R_1 + R_2)$	(R_2)	Insulation resistance: Test Voltage	Live/Live MΩ	Live/Neutral MΩ	Live/Earth MΩ	Earth/Neutral MΩ	Polarity (v)	Maximum measured earth fault loop impedance Ω	RCD: Disconnection time (ms)	Test button operation	AFDD Test button operation	Remarks see continuation sheet
1/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
1/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
1/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
2/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
2/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
2/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
3/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
3/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
3/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
4/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
4/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
4/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
5/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.70	N/A	N/A		NO
5/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
5/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.80	N/A	N/A		NO
6/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.76	N/A	N/A		NO
6/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
6/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.39	29/29	✓		NO
7/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.60	30/29	✓		NO
7/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.57	30/29	✓		NO
7/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.48	39/29	✓		NO
8/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.50	39/29	✓		NO
8/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.42	23/23	✓		NO
8/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.66	32/23	✓		NO

Tested By

Signature		Position	Grade 1 Test Engineer
Name	Steven Davis	Date of testing	01/12/2021

Board Details

TO BE COMPLETED IN EVERY CASE		ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION			
Location of Distribution Board	EP Building External Electrical Cupboard	Supply to distribution board is from:	SubMains(DB 16 Switch Fuse,	Associated RCD (if any) BS(EN)	N/A
Distribution board designation	DB 16	No of phases	3	Nominal Voltage	400 V
		Overcurrent protective device for the distribution circuit Type BS(EN)	88-2 Fuse HRC	Rating	100 A
				RCD No of Poles	N/A
				RCD Rating	N/A mA

Circuit Details

Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection times (s)	Overcurrent protective device					RCD	Maximum permitted Zs (Ω)
					Live mm^2	cpc mm^2		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)	
9/L1	Sockets - Main Office	D	B	2021	2x2.5	2x1.5	0.4	61009 RCD/RCBO		B	32	10	30	1.37
9/L2	Sockets - Main Office staff	D	B	2021	2x2.5	2x1.5	0.4	61009 RCD/RCBO		B	32	10	30	1.37
9/L3	Sockets - Main Office staff	D	B	2021	2x2.5	2x1.5	0.4	61009 RCD/RCBO		B	32	10	30	1.37
10/L1	Sockets - Main Office staff	A	B	2021	2x2.5	2x1.5	0.4	61009 RCD/RCBO		B	32	10	30	1.37
10/L2	Water Heater - As Marked	D	B		2.5	1.5	0.4	61009 RCD/RCBO		B	16	10	30	2.73
10/L3	Water Heater -As Marked	D	B		2.5	1.5	0.4	61009 RCD/RCBO		B	16	10	30	2.73
11/L1	Water Heater - As Marked	D	B		2.5	1.5	0.4	61009 RCD/RCBO		B	16	10	30	2.73
11/L2	Switchroom Server Socket	D	B	LIM	2.5	1.5	0.4	60898 MCB		B	16	10	N/A	2.73
11/L3	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
12/L1	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
12/L2	Sockets - Main Switchroom server	D	B	LIM	2.5	1.5	0.4	61009 RCD/RCBO		B	20	10	30	2.19
12/L3	Fire Alarm - As Marked	D	B		2.5	2.5	0.4	60898 MCB		B	10	10	N/A	4.37
13/L1	Heater 1 - As Marked	D	B	2021	2.5	1.5	0.4	61009 RCD/RCBO		B	16	10	30	2.73
13/L2	Socket fridge Kitchen	D	B	2021	2.5	1.5	0.4	61009 RCD/RCBO		B	16	10	30	2.73
13/L3	Heater 3 - As Marked	D	B		2.5	1.5	0.4	61009 RCD/RCBO		B	16	10	30	2.73
14/L1	AC pumps Main Office - As Marked	D	B		2.5	2.5	0.4	61009 RCD/RCBO		B	16	10	30	2.73
14/L2	AC pumps Main Office	D	B	2021	2.5	2.5	0.4	61009 RCD/RCBO		B	16	10	30	2.73
14/L3	AC pumps Main Office - As Marked	D	B		2.5	2.5	0.4	61009 RCD/RCBO		B	16	10	30	2.73
15/L1	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
15/L2	FCU Swithch room	D	B	2021	2.5	2.5	0.4	61009 RCD/RCBO		B	20	10	30	2.19
15/L3	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
16/L1	Security lighting - as marked	D	B		1.5	1.5	0.4	60898 MCB		B	6	10	N/A	7.28
16/L2	Lighting - Flood lights - as marked	D	B		1.5	1	0.4	60898 MCB		B	10	10	N/A	4.37
16/L3	External Emergency Lighting	D	B		1.5	1	0.4	60898 MCB		B	6	10	N/A	7.28

Wiring Code

A	B	C	D	E	F	G	H	O
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	Other

Board Tests

TO BE COMPLETED IN EVERY CASE

Correct supply polarity confirmed ✓ | Phase sequence confirmed (where appropriate) N/A

Supplementary Conductors ✓

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Zs 0.22 Ω Ipf 2.09 kA

Operating times of associated RCD (if any) At I Δ n N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	101291679	RCD	101291679
Insulation resistance	101291679	Multi-function	N/A
Continuity	101291679	Other	N/A

Details of circuits and/or equipment vulnerable to damage

N/A

Circuit Tests

Circuit number and phase	Circuit Impedances Ω					Insulation resistance					Polarity (v)	Maximum measured earth fault loop impedance Ω	RCD		AFDD Test button operation	Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Test Voltage	Live/ Live MΩ	Live/ Neutral MΩ	Live/ Earth MΩ	Earth/ Neutral MΩ			Disconnection time (ms)	Test button operation		
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)											
9/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.76	24/23	✓		NO
9/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.83	29/29	✓		NO
9/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.63	28/28	✓		NO
10/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.94	29/29	✓		NO
10/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	29/29	✓		NO
10/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	38/29	✓		NO
11/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	36/28	✓		NO
11/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
11/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/L2	N/A	N/A	N/A	N/A	N/A	LIM	N/A	N/A	LIM	N/A		LIM	N/A	N/A		NO
12/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
13/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.86	29/29	✓		NO
13/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.83	29/29	✓		NO
13/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	29/29	✓		NO
14/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	29/29	✓		NO
14/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.78	28/29	✓		NO
14/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	29/29	✓		NO
15/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.34	38/29	✓		NO
15/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
16/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
16/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO

Tested By

Signature		Position	Grade 1 Test Engineer
Name	Steven Davis	Date of testing	01/12/2021

Board Details

TO BE COMPLETED IN EVERY CASE

Location of Distribution Board: EP Building External Electrical Cupboard

Distribution board designation: DB 16

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Supply to distribution board is from: SubMains(DB 16 Switch Fuse,

No of phases: 3 Nominal Voltage: 400 V

Overcurrent protective device for the distribution circuit

Type BS(EN): 88-2 Fuse HRC Rating: 100 A

Associated RCD (if any)

BS(EN): N/A

RCD No of Poles: N/A

RCD Rating: N/A mA

Circuit Details

Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection times (s)	Overcurrent protective device					RCD	Maximum permitted Zs (Ω)
					Live mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)	
17/TP	AC 1	G	E	2021	4	4	0.4	60898 MCB		C	32	10	N/A	0.68
18/TP	AC 2	G	E	2021	4	4	0.4	60898 MCB		C	32	10	N/A	0.68
19/L1	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
19/L2	AC Control this room	D	B		1.5	1.5	0.4	60898 MCB		B	10	10	N/A	4.37
19/L3	FCU Time clock - As Marked	D	B		2.5	1.5	0.4	60898 MCB		B	16	10	N/A	2.73
20/L1	Air Intake - As Marked	D	B		2.5	1.5	0.4	60898 MCB		B	16	10	N/A	2.73
20/L2	Gents Hair Dryer	D	B	2021	2.5	1.5	0.4	60898 MCB		B	16	10	N/A	2.73
20/L3	Laides Hand Dryer	D	B	2021	2.5	1.5	0.4	60898 MCB		B	10	10	N/A	4.37
21/L1	Air Intake - As Marked	G	C		6	6	5	60898 MCB		C	32	10	N/A	0.68
21/L2	Sub Mains(DB Container)	D	B	2021	10	10	0.4	61009 RCD/RCBO		B	32	10	30	1.37
21/L3	Roof Fans FCU	D	B	2021	1.5	1.5	0.4	60898 MCB		B	10	10	N/A	4.37
22/L1	Air Intake Control - As Marked	D	B		1.5	1.5	0.4	60898 MCB		B	10	10	N/A	4.37
22/L2	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
22/L3	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
23/L1	Way Not Available	-	-	-	-	-	-	-	-	-	-	-	-	-
23/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
23/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
24/TP	AC 3	G	E	2021	4	4	0.4	60898 MCB		C	32	10	N/A	0.68

Wiring Code

A	B	C	D	E	F	G	H	O
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	Other

SCHEDULE OF CIRCUIT TESTS FOR THE INSTALLATION

80348 - Master

Board Tests

TO BE COMPLETED IN EVERY CASE

Correct supply polarity confirmed ✓

Phase sequence confirmed (where appropriate) N/A

Supplementary Conductors ✓

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Zs 0.22 Ω Ipf 2.09 kA

Operating times of associated RCD (if any) At I Δ n N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	101291679	RCD	101291679
Insulation resistance	101291679	Multi-function	N/A
Continuity	101291679	Other	N/A

Details of circuits and/or equipment vulnerable to damage

N/A

Circuit Tests

Circuit number and phase	Circuit Impedances Ω					Insulation resistance					Polarity (v)	Maximum measured earth fault loop impedance Ω	RCD		AFDD Test button operation	Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Test Voltage	Live/ Live MΩ	Live/ Neutral MΩ	Live/ Earth MΩ	Earth/ Neutral MΩ			Disconnection time (ms)	Test button operation		
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)											
17/TP	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.31	N/A	N/A		NO
18/TP	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.29	N/A	N/A		NO
19/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
19/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
20/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
20/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.47	N/A	N/A		NO
20/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.55	N/A	N/A		NO
21/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
21/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.83	43/25	✓		NO
21/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.59	N/A	N/A		NO
22/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
22/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/TP	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.29	N/A	N/A		NO

Tested By

Signature

Name Steven Davis

Position Grade 1 Test Engineer

Date of testing 01/12/2021

Board Details

TO BE COMPLETED IN EVERY CASE

Location of Distribution Board: Operations Green Container By Compound

Distribution board designation: DB Container

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Supply to distribution board is from: SubMains(DB 16 , 21/L2)

No of phases: 1 | Nominal Voltage: 230 V

Overcurrent protective device for the distribution circuit

Type BS(EN): 61009 | Rating: 32 A

Associated RCD (if any)

BS(EN): 61008 RCD

RCD No of Poles: 2

RCD Rating: 30 mA

Circuit Details

Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection times (s)	Overcurrent protective device					RCD	Maximum permitted Zs (Ω)
					Live mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)	
1/L2	Sockets	A	B	2021	2.5	1.5	0.4	60898 MCB		B	16	10	N/A	2.73
2/L2	Lighting - As Marked	A	B		1.5	1	0.4	60898 MCB		B	6	10	N/A	7.28

Wiring Code

A	B	C	D	E	F	G	H	O
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	Other

SCHEDULE OF CIRCUIT TESTS FOR THE INSTALLATION

80348 - Master

Board Tests

TO BE COMPLETED IN EVERY CASE

Correct supply polarity confirmed ✓ | Phase sequence confirmed (where appropriate) N/A

Supplementary Conductors ✓

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Zs 0.83 Ω Ipf 0.32 kA

Operating times of associated RCD (if any) At $I\Delta n$ N/0 ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	2170068	RCD	2170068
Insulation resistance	2170068	Multi-function	N/A
Continuity	2170068	Other	N/A

Details of circuits and/or equipment vulnerable to damage

N/A

Circuit Tests

Circuit number and phase	Circuit Impedances Ω					Insulation resistance					Polarity (v)	Maximum measured earth fault loop impedance Ω	RCD		AFDD Test button operation	Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Test Voltage	Live/ Live MΩ	Live/ Neutral MΩ	Live/ Earth MΩ	Earth/ Neutral MΩ			Disconnection time (ms)	Test button operation		
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)											
1/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.96	N/A	N/A		YES
2/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO

Tested By

Signature		Position	Test Engineer
Name	Richard Johns	Date of testing	01/12/2021

Board Details

TO BE COMPLETED IN EVERY CASE

Location of Distribution Board: Lab Room 9

Distribution board designation: DB Lab Room 9

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Supply to distribution board is from: SubMains(DB 8, 10/L1)

No of phases: 1 | Nominal Voltage: 230 V

Overcurrent protective device for the distribution circuit

Type BS(EN): 60898 MCB C | Rating: 40 A

Associated RCD (if any)

BS(EN): 61008 RCD

RCD No of Poles: 2

RCD Rating: 30 mA

Circuit Details

Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection times (s)	Overcurrent protective device					RCD		Maximum permitted Zs (Ω)
					Live mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)		
1/L1	Dado Sockets	A	B	2021	2x2.5	2x1.5	0.4	60898 MCB		B	32	10	N/A		1.37
2/L1	Bench Sockets	A	B	2021	2.5	1.5	0.4	60898 MCB		B	16	10	N/A		2.73
3/L1	Pump - As Marked	A	B		2.5	1.5	0.4	60898 MCB		B	6	10	N/A		7.28
4/L1	A/C Unit - External - As Marked	F	C		4	2.5	0.4	60898 MCB		B	20	10	N/A		2.19
5/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Wiring Code

A	B	C	D	E	F	G	H	O
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	Other

Board Tests

TO BE COMPLETED IN EVERY CASE

Correct supply polarity confirmed ✓ | Phase sequence confirmed (where appropriate) N/A

Supplementary Conductors ✓

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Zs 0.22 Ω Ipf 1.09 kA

Operating times of associated RCD (if any) At I Δ n N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	101291679	RCD	101291679
Insulation resistance	101291679	Multi-function	N/A
Continuity	101291679	Other	N/A

Details of circuits and/or equipment vulnerable to damage

N/A

Circuit Tests

Circuit number and phase	Circuit Impedances Ω: Ring final circuits only (measure end to end) r1 (Line)	rn (Neutral)	r2 (cpc)	All circuits (At least one column to be completed) (R1 + R2)	(R2)	Insulation resistance: Test Voltage	Live/Live MΩ	Live/Neutral MΩ	Live/Earth MΩ	Earth/Neutral MΩ	Polarity (v)	Maximum measured earth fault loop impedance Ω	RCD: Disconnection time (ms)	Test button operation	AFDD Test button operation	Remarks see continuation sheet
1/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.71	N/A	N/A		NO
2/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.80	N/A	N/A		NO
3/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
4/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
5/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature		Position	Grade 1 Test Engineer
Name	Steven Davis	Date of testing	01/12/2021

Board Details

TO BE COMPLETED IN EVERY CASE

Location of Distribution Board: Culture Room

Distribution board designation: DB 11

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Supply to distribution board is from: SubMains(DB 9, 7/L2)

No of phases: 1 Nominal Voltage: 230 V

Overcurrent protective device for the distribution circuit

Type BS(EN): 3871 MCB 2 Rating: 32 A

Associated RCD (if any)

BS(EN): 61008 RCD

RCD No of Poles: N/A

RCD Rating: 30 mA

Circuit Details

Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection times (s)	Overcurrent protective device					RCD	Maximum permitted Zs (Ω)
					Live mm^2	cpc mm^2		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)	
1/L2	Sockets - Left Wall	C	B	2021	2x2.5	2x1.5	0.4	60898 MCB		B	32	10	N/A	1.37
2/L2	Sockets - Right Wall	C	B	2021	2x2.5	2x1.5	0.4	60898 MCB		B	32	10	N/A	1.37
3/L2	Sockets - Left Wall	C	B	2021	4	2.5	0.4	60898 MCB		B	20	10	N/A	2.19
4/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
7/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-

Wiring Code

A	B	C	D	E	F	G	H	O
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	Other

SCHEDULE OF CIRCUIT TESTS FOR THE INSTALLATION

80348 - Master

Board Tests

TO BE COMPLETED IN EVERY CASE

Correct supply polarity confirmed ✓

Phase sequence confirmed (where appropriate) N/A

Supplementary Conductors ✓

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Zs 0.39 Ω Ipf 0.58 kA

Operating times of associated RCD (if any) At $I\Delta n$ N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	101291679	RCD	101291679
Insulation resistance	101291679	Multi-function	N/A
Continuity	101291679	Other	N/A

Details of circuits and/or equipment vulnerable to damage

N/A

Circuit Tests

Circuit number and phase	Circuit Impedances Ω					Insulation resistance					Polarity (v)	Maximum measured earth fault loop impedance Ω	RCD		AFDD Test button operation	Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Test Voltage	Live/ Live MΩ	Live/ Neutral MΩ	Live/ Earth MΩ	Earth/ Neutral MΩ			Disconnection time (ms)	Test button operation		
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)											
1/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.93	N/A	N/A		NO
2/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.89	N/A	N/A		NO
3/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.86	N/A	N/A		NO
4/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature

Name Richard Johns

Position Test Engineer

Date of testing 01/12/2021

Board Details

TO BE COMPLETED IN EVERY CASE

Location of Distribution Board: Ozone Plant Room

Distribution board designation: DB Ozone Plant CP

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Supply to distribution board is from: SubMains(DB 15 , 1/TP)

No of phases: 3 Nominal Voltage: 400 V

Overcurrent protective device for the distribution circuit

Type BS(EN): 60898 MCB C Rating: 32 A

Associated RCD (if any)

BS(EN): N/A

RCD No of Poles: N/A

RCD Rating: N/A mA

Circuit Details

Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection times (s)	Overcurrent protective device					RCD		Maximum permitted Zs (Ω)
					Live mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)		
1/TP	Pump	F	E	2021	2.5	2.5	0.4	88-2 Fuse HRC		gG	6	80	N/A		7.80
2/L1	Compressor- As Marked	F	E		2.5	2.5	0.4	88-2 Fuse HRC		gG	6	80	N/A		7.80
2/L2	Ozone Generator	F	E	2021	2.5	2.5	0.4	88-2 Fuse HRC		gG	6	80	N/A		7.80
2/L3	Catalytic Destructor - As Marked	F	E		2.5	2.5	0.4	88-2 Fuse HRC		gG	6	80	N/A		7.80
3/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-		-
3/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-		-
3/L3	Air Dryer - As Marked	F	C		2.5	2.5	5	88-2 Fuse HRC		gG	4	80	N/A		21.00

Wiring Code

A	B	C	D	E	F	G	H	O
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	Other

SCHEDULE OF CIRCUIT TESTS FOR THE INSTALLATION

80348 - Master

Board Tests

TO BE COMPLETED IN EVERY CASE

Correct supply polarity confirmed ✓ | Phase sequence confirmed (where appropriate) N/A

Supplementary Conductors ✓

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Zs 0.35 Ω Ipf 1.27 kA

Operating times of associated RCD (if any) At I Δ n N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	101291679	RCD	101291679
Insulation resistance	101291679	Multi-function	N/A
Continuity	101291679	Other	N/A

Details of circuits and/or equipment vulnerable to damage

N/A

Circuit Tests

Circuit number and phase	Circuit Impedances Ω					Insulation resistance					Polarity (v)	Maximum measured earth fault loop impedance Ω	RCD		AFDD Test button operation	Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Test Voltage	Live/ Live MΩ	Live/ Neutral MΩ	Live/ Earth MΩ	Earth/ Neutral MΩ			Disconnection time (ms)	Test button operation		
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)											
1/TP	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.56	N/A	N/A		NO
2/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
2/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.44	N/A	N/A		NO
2/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
3/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO

Tested By

Signature | Position Grade 1 Test Engineer

Name Steven Davis | Date of testing 01/12/2021

Board Details

TO BE COMPLETED IN EVERY CASE

Location of Distribution Board: Ozone Plant Room

Distribution board designation: DB 15

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Supply to distribution board is from: SubMains(DB 13, 1/TP)

No of phases: 3 Nominal Voltage: 400 V

Overcurrent protective device for the distribution circuit

Type BS(EN): 60898 MCB C Rating: 63 A

Associated RCD (if any)

BS(EN): N/A

RCD No of Poles: N/A

RCD Rating: N/A mA

Circuit Details

Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection times (s)	Overcurrent protective device					RCD	Maximum permitted Zs (Ω)
					Live mm²	cpc mm²		BS(EN)	AFDD	Type	Rating (A)	Short circuit capacity (kA)	Operating current (IΔn)	
1/TP	Sub Mains(DB Ozone Plant CP)	F	C	2021	6	6	5	60898 MCB		C	32	10	N/A	0.68
2/L1	External Light - As Marked	A	C		1.5	1.5	0.4	60898 MCB		B	16	10	N/A	2.73
2/L2	Heater - Left Hand Side Wall - As Marked	B	B		1.5	82.6	0.4	60898 MCB		B	16	10	N/A	2.73
2/L3	Double RCD Socket OZONE	G	E	2021	2.5	2.5	0.4	60898 MCB		B	16	10	N/A	2.73
3/L1	Lighting & Extract Fan - As Marked	B	B		1.5	82.6	0.4	60898 MCB		B	16	10	N/A	2.73
3/L2	ATi ORP monitors	G	E	2021	1.5	1.5	0.4	60898 MCB		C	6	10	N/A	3.64
3/L3	UV supply - As Marked	G	E		2.5	2.5	0.4	60898 MCB		B	16	10	N/A	2.73
4/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L3	Sump Pump	A	B	2021	2.5	1.5	0.4	61009 RCD/RCBO		B	16	10	30	2.73
5/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L2	Street Light - As Marked	F	D		6	6	0.4	60898 MCB		C	6	10	N/A	3.64
5/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L1	Outside pumps	G	D	2021	2.5	1.5	0.4	61009 RCD/RCBO		B	16	10	30	2.73
6/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-

Wiring Code

A	B	C	D	E	F	G	H	O
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	Other

Board Tests

TO BE COMPLETED IN EVERY CASE

Correct supply polarity confirmed: ✓ | Phase sequence confirmed (where appropriate): N/A

Supplementary Conductors: ✓

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Zs: 0.27 Ω | Ipf: 1.63 kA

Operating times of associated RCD (if any) At I Δ n: N/A ms

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	101291679	RCD	101291679
Insulation resistance	101291679	Multi-function	N/A
Continuity	101291679	Other	N/A

Details of circuits and/or equipment vulnerable to damage

N/A

Circuit Tests

Circuit number and phase	Circuit Impedances Ω: Ring final circuits only (measure end to end) r1 (Line)	rn (Neutral)	r2 (cpc)	All circuits (At least one column to be completed) (R1 + R2)	(R2)	Insulation resistance: Test Voltage	Live/Live MΩ	Live/Neutral MΩ	Live/Earth MΩ	Earth/Neutral MΩ	Polarity (v)	Maximum measured earth fault loop impedance Ω	RCD: Disconnection time (ms)	Test button operation	AFDD Test button operation	Remarks see continuation sheet
1/TP	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.35	N/A	N/A		NO
2/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
2/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
2/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.66	N/A	N/A		YES
3/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
3/L2	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.51	N/A	N/A		NO
3/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
4/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L3	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.84	29/19	✓		NO
5/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		NO
5/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L1	N/A	N/A	N/A	N/A	N/A	500	N/A	N/A	299	N/A	✓	0.66	29/29	✓		NO
6/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature		Position	Grade 1 Test Engineer
Name	Steven Davis	Date of testing	01/12/2021

Additional Supply No 1

Supply Characteristics and Earthing Arrangements

System Type(s)		Number and Type of Live Conductors					
			a.c. ✓		d.c. ✗		
TN-S	N/A	1-Phase (2 wire)	N/A	1-Phase (3 wire)	N/A	2 Pole	N/A
TN-C-S	✓	2-Phase (3 wire)	N/A			3 Pole	N/A
TN-C	N/A	3-Phase (3 wire)	N/A	3-Phase (4 wire)	✓	Other	N/A
TT	N/A	Other	N/A				
IT	N/A						

Type of supply: Generator

Nature of Supply Parameters

Nominal Voltage	U	400 V	Uo	230 V
Nominal frequency	f	50 Hz		
Prospective fault current	Ipf	N/A kA		
External loop impedence	Ze	N/A Ω		

Supply protective device characteristics

BS(EN): LIM

Type: N/A

Nominal current rating: LIM A

Short circuit Capacity: N/A kA

Confirmation of Polarity: N/A

Particulars of Installation Referred to in the Certificate

Means of Earthing

Distributor's facility: ✓

Installation earth electrode: N/A

Details of Installation Earth Electrode (where applicable)

Type (eg rod(s), tape etc): N/A

Location: N/A

Electrode resistance, R_A: N/A Ω

Method of measurement: N/A

Main Switch or Circuit-Breaker

Type BS(EN)	60947-2
Voltage Rating	400 V
No. of poles	3
Current Rating	400 A
Supply Conductors material	Copper
Supply Conductors CSA	120 mm^2
RCD operating current, IΔn	N/A mA
RCD operating time at, IΔn	N/A ms

Maximum Demand (load)

N/A Amps

Protective measure(s) against electric shock

ADS

Earthing and Protective Bonding Conductors

Earthing Conductor

material: Copper

csa: 120 mm^2

Continuity verified: ✓

Connection verified: ✓

Main protective bonding conductors

material: Copper

csa: 16 mm^2

Continuity verified: ✓

Connection verified: ✓

Bonding of extraneous conductors

Water installation pipes	✓	Gas installation pipes	✓	Lightning protection	N/A
Oil installlation pipes	N/A	Structural steel	N/A		
Other incomming service	N/A	N/A	Please state		

Comments on Existing Installation

Where appropriate comments on the existing installation are to be found on page(s)

None

Extent of Electrical Installation covered by this report, Continued. from page 1

To provide detailed results of the areas detailed as (Fisheries Lab, Ozone Lab & Environmental Planning) (equating to an approximate 1/3 of the whole installation) supplemented by a risk based approach to final circuit testing. Inspection & Testing undertaken in accordance with IET Guidance Note 3.
With the exception of those circuits whose designation have been confirmed (as detailed with the inclusion of tests), it should be observed that all other circuit details are 'as marked' and may not be relied upon for their accuracy.
The test result sheet columns entitled 'Number of points served' specifies the year of test of that circuit.

Agreed limitations including the reasons, Continued. from page 1

Powertest Ltd were not responsible for the design or installations of the electrical system covered by this report and are therefore not responsible for any of these aspects of work over which they have no control.

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 underground have not been inspected.

The inspection and testing of installed machinery is limited to: -

a. An external visual inspection for electrical safety excluding all control and operational functions.
b. Earth continuity test to all exposed conductive parts.

Unless otherwise requested the following specialist areas will be subject to separate contracts and will not therefore form part of the inspection and test.

a. Emergency lighting systems.
b. Lightning protection systems.
c. Lift installations.
d. Potentially explosive atmosphere installations.
e. High level parts of the fixed installation and other parts of the installation not normally accessible without specialised equipment.
f. Examination of machinery.
g. H.V. Power Systems i.e. in excess of 1000 volts ac.
h. Fire detection and alarm systems.
i. Data/telecommunication systems.

The installation may have been completed to IET Wiring Regulations that predate the current edition. In this case recommendations may be made with regard to current safety standards.

Operational Limitations including the reasons, Continued. from page 1

1 - No access to the circuit protective device at origin of supply.
2 - Unable to disconnect main Earthing conductor to perform Ze as client does not want whole site loss of power at the time of testing. Zs Recorded with all parallel earths connected.
3 - Unable to remove main panel cover due to unable isolate supply at site request.

4 - Unable to perform Line to Earth Insulation tests across voltage sensitive circuits or circuits that were unable to be de-energised during the inspection.
5 - Unable to operate main Switch For Function test - Please See Operational Limitation 2.
6 - Unable to inspect accessories located behind large Furniture or Stored materials
7 - Unable to confirm Sub Main circuits due to client unable to de-energise (loss of critical equipment)
8 - unable to isolate supplies to local Server circuits,

General condition of the installations (In terms of electrical safety), Continued. from page 1

Due to the presence of C2 defects the installation is deemed to be in an Unsatisfactory condition until these are rectified because they are judged to have the potential to impair the safety of the installation. Please see section K Observations for full details paying due consideration towards the improvement of the advisory C3 defects also.There is also an observation where a further investigation FI outcome has been documented where it was not possible to trace an energised circuit, in this instance the circuit should be traced
You are reminded of your obligations under Regulation 4 of the Electricity at Work Regulations (EaWR) that specifies the requirement for electrical installation 'Maintenance'.
Approximately 50 % percentage of circuits have been tested for disconnection in the event of a fault has been re-validated

Observations Continued from Page 2

Item No	Description	Code
	investigate due to it powers the comms cabinet in room 4.	
3	5.0 FINAL CIRCUITS 5.18 Condition of accessories including socket-outlets, switches and joint boxes (651.2(v)), Comment: 1- DB13 - room 10 - EM key switch is damaged. 2 - DB16 - 10L1 Main office wall socket - dry liner box lug is damaged socket not secure. 3 - DB16 - 7L1 - Floor box socket adj to desk is not secure 4 - DB16 - 8L1 - Rear desk 263 socket not secured 5 - DB16 10L1 - socket - lug damaged 6 - DB16 - 5L3 - Store Room RCD socket will not reset. test button defunct.	C2
4	5.0 FINAL CIRCUITS 5.7 Adequacy of protective devices: type and rated current for fault protection (411.3), Comment: DB 10 Circuit 3L3 - local RCDs Rated at 25A fed via 32A MCB - device is under rated.	C2
5	3.0 EARTHING / BONDING ARRANGEMENTS (411.3; Chap 54) 3.6 Confirmation of main protective bonding conductor sizes (544.1), Comment: Main Protective bonding conductors to incoming Extraneous Conductive Parts appears under sized. when referenced against table 54.8. All outbuildings fed from a TN-CS earthing arrangement require to be sized via regulation 542.1.3.3.	C2
6	5.0 FINAL CIRCUITS 5.6 Coordination between conductors and overload protective devices (433.1; 533.2.1), Comment: DB10 Circuit 3L3 - has 3x2,5mm conductors leaving the MCB - potentially overfused for the size of conductor.	C2
7	4.0 CONSUMER UNIT(S) / DISTRIBUTION BOARD(S) 4.9 Correct identification of circuit details and protective devices (514.8.1; 514.9.1), Comment: The following circuits have no circuit description - further investigation required to ensure they are safe for continued use. DB8 - 4L3, 6L1,6L3,9L2 DB9 - 3L2, 5L1,13L3 DB13 - 6L3	FI
8	DB 13_ 8/L1_ Room 3 Desk Sockets_ Excessive Earth Loop Impedance	C3
9	DB 13_ 17/L1_ Room 9 Sockets_ Excessive Earth Loop Impedance	C3

Code Key

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

DB 8, 1/L2, Sockets - Experimental Wet Room - Remarks
4 x local RCD sockets - unable to obtain results due to selectivity on the circuit.
DB 10, 3/L3, Room 21 & 22 Sockets - Remarks
Room 21 local RCD - Operating Time of Associated RCD 1 x @30mA - 29ms and 5 x @150mA – 16ms Operation of test Button function Pass Room 22 Local RCD - Operating Time of Associated RCD 1 x @30mA - 28ms and 5 x @150mA – 16ms Operation of test Button function Pass
DB Container, 1/L2, Sockets - Remarks
unable to obtain local RCD results due to poor selectivity in this circuit.
DB 15 , 2/L3, Double RCD Socket OZONE - Remarks
Operating Time of Associated RCD S/O 1 x @30mA -9 ms and 5 x @150mA –9 ms Operation of test Button function Pass

CONDITION REPORT GUIDANCE FOR RECIPIENTS
(to be appended to the Report)

This Report is an important and valuable document which should be retained for future reference.

1. 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).

2. The person ordering the Report should have received the 'original' Report and the inspector should have retained a duplicate.

3. 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.

4. Where the installation incorporates a residual current device (RCD) there should be a notice at or near the device stating that it should be tested six-monthly. **For safety reasons it is important that this instruction is followed.**

5. 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 (licensing authority, insurance company, mortgage provider and the like) before the inspection was carried out.

6. 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.

7. 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.

8. 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.

9. 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 in a code C1 or C2, and could not, due to the extent or limitations of the inspection, be fully identified. Such observations should be investigated without delay. A further examination of the installation will be necessary, to determine the nature and extent of the apparent deficiency (see Section F).

10. 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 a label at or near to the consumer unit/ distribution board.