ELECTRICAL INSTALLATION CONDITION REPORT

110064710 - Master

A. Details of the Client/Person Ordering the Report

Client: Salvation Army HQ (SouthEast Region)

Address:
99-101 Newington Causeway
London
SE1 6BN

B. Reason for Producing this Report

Purpose of this report:
Essential information requested by the client in accordance with the electricity at work regulations 1989.

Date(s) on which Inspection: and testing was carried out: 25/09/2017

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

Installation: Noahs's Ark Nursery - PO1 5HZ

Occupier: Noahs Ark Nursery - Southsea Corps

Address:
Day Care Centre
28 Brookfield Road
Fratton
Portsmouth PO1 5HZ

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

Other: N/A

Estimated age of wiring system: 15+ yrs

Evidence of alterations or additions: ✓ If yes estimated Age 4+ yrs

Record of Installation available: N/A Records held By: N/A Date of previous inspection: Not Known

D. Extent and Limitations Inspection and Testing

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

Agreed limitations including the reasons (See regulation 634.2)
--For Agreed Limitations--
--See Additional Page--

Agreed with name: Sandra Newsham

Operational Limitations including the reasons (See page No 8)
--For Operational Limitations--
--See Additional Page--

This inspection and testing detailed in this report and accompanying schedules have been carried out in accordance with BS7671:2008 (IET Wiring Regulations) as amended to July 2015

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.

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--
--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, I 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'*
Observation classified as 'Improvement recommended' (code C3) should be given due consideration.
Subject to the necessary remedial action being taken I recommend that the installation is further inspected and tested by 25/09/2022

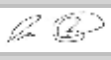
G. Declaration

I , being the person(s) responsible for the inspection and testing of the electrical installation (as indicated by My 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:
PHS Compliance,
Compliance House,
Golborne Enterprise Park,
Kid Glove Road,
Warrington, WA3 3GR

NICEIC Enrolment Number: 031362

Inspected and tested by:

Name: Ian Blake Position: Electrical Test Engineer Signature:  Date: 25/09/2017

Report authorised for issue by:

Name: Steven Skillern Position: Technical Auditor Signature:  Date: 05/10/2017

H. Schedule(s)

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

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

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I. Supply Characteristics and Earthing Arrangements

Earthing Arrangements		Number and Type of Live Conductors					
TN-S	✓	a.c.	✓			d.c.	N/A
TN-C-S	N/A	1-Phase (2 wire)	✓	1-Phase (3 wire)	N/A	2 Wire	N/A
TN-C	N/A	2-Phase (3 wire)	N/A			3 Wire	N/A
TT	N/A	3-Phase (3 wire)	N/A	3-Phase (4 wire)	N/A	Other	N/A
IT	N/A	Other	N/A				
		Confirmation of supply polarity	✓				

Nature of Supply Parameters			
Nominal Voltage	$U^{(1)}$	400	V
Nominal Voltage	$U_0^{(1)}$	230	V
Nominal frequency	$f^{(1)}$	50	Hz
Prospective fault current	$Ipf^{(2)}$	1.17	kA
External loop impedance	$Ze^{(2)}$	0.20	Ω
Number of supplies		1	

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

Supply protective device

BS(EN): LIM

Type: N/A

Nominal current rating: LIM A

Short circuit capacity: N/A kA

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		Connection and Continuity Verified
Earthing Conductor	Copper	16	mm^2	LIM
Main protective bonding conductors	Copper	10	mm^2	LIM

Bonding of Incoming Service

Water	Gas	Lightning	Oil	Steel	Other	Please State
✗	✓	N/A	N/A	N/A	N/A	N/A

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

Protective measure(s) against electric shock: ADS

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

Location: Front Of Building - Within DB 1

Type BS(EN): 60947-3 No of poles: 2

Supply Conductors material: Copper

Supply Conductors csa: 25 mm^2

Current rating	100	A
Fuse/Device rating or setting	N/A	A
Voltage rating	230	V

if RCD main switch

Rated residual operation current, IΔn	N/A	mA
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	Further Investigation Required
1	Please see the additional sheet(s) at the end of the report.	N/A	No

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	0
C3 - Improvement recommended	0

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Board Details

TO BE COMPLETED IN EVERY CASE

Location of Distribution Board: Front Of Building (Contactum)

Distribution board designation: DB 1

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	Refe-rence method	No of points served	Circuit conductors csa		Max per-mitted disc-onnec-tion times	Overcurrent protective device				RCD	Max per-mitted Zs Ω
					Live mm^2	cpc mm^2		BS(EN)	Type No	Rating A	Short circuit capa-city kA	Op. current $I\Delta n$	
1/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
2/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
3/L1	Sockets & Fused Spurs - Kitchen	A	B	8	2x2.5	2x1.5	0.4	61009 RCD/RCBO	B	32	10	30	1.15
4/L1	Lighting - Kitchen, Childrens Toilet & Back Lobby	A	B	6	2x1.0	2x1.0	0.4	61009 RCD/RCBO	B	6	10	30	6.14
5/L1	Lighting - Nursery & Office	A	B	14	3x1.0	3x1.0	0.4	61009 RCD/RCBO	B	10	10	30	3.68
6/L1	Sockets - Office	A	B	5	2.5	1.5	0.4	61009 RCD/RCBO	B	20	10	30	1.84
7/L1	Sockets - Nursery	A	B	4	6.0	2.5	0.4	61009 RCD/RCBO	B	32	10	30	1.15
8/L1	Sub Mains(DB 2)	G	C	1	4.0	4.0	5	60898 MCB	B	32	10	N/A	1.15

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

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Board Tests

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

Zs	N/A Ω	Operating times of associated RCD (if any)	At $I\Delta n$	N/A ms	
Ipf	N/A kA		At $5I\Delta n$	N/A ms	
Correct supply polarity confirmed	✓	Phase sequence confirmed (where appropriate)		N/A	

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	101101853	RCD	101101853
Insulation resistance	101101853	Other	N/A
Continuity	101101853	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	Maximum measured earth fault loop impedance Ω	RCD operating times			Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Live/ Live MΩ	Live/ Neutral MΩ	Live/ Earth MΩ	Earth/ Neutral MΩ			At $I\Delta n$ ms	At $5I\Delta n$ ms	Test button operation	
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)										
1/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/L1	0.49	0.48	0.79	0.17	N/A	N/A	LIM	>999	>999	✓	0.36	29.1	29.1	✓	NO
4/L1	N/A	N/A	N/A	0.57	N/A	N/A	LIM	>999	>999	✓	0.78	26.7	26.0	✓	NO
5/L1	N/A	N/A	N/A	0.52	N/A	N/A	LIM	>999	>999	✓	0.72	19.4	19.2	✓	NO
6/L1	N/A	N/A	N/A	0.20	N/A	N/A	LIM	>999	>999	✓	0.40	24.6	24.9	✓	NO
7/L1	N/A	N/A	N/A	0.17	N/A	N/A	LIM	>999	>999	✓	0.37	24.2	27.4	✓	NO
8/L1	N/A	N/A	N/A	0.23	N/A	N/A	LIM	>999	>999	✓	0.44				NO

Tested By

Signature		Position	Electrical Test Engineer
Name	Ian Blake	Date of testing	25/09/2017

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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	Rear Baby Room (Chint)
Distribution board designation	DB 2
Supply to distribution board is from	SubMains(DB 1, 8/L1)
No of phases	1
Nominal Voltage	230 V
Overcurrent protective device for the distribution circuit	
Type BS(EN)	60898 MCB B
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	Refe-rence method	No of points served	Circuit conductors csa		Max per-mitted disc-onnec-tion times	Overcurrent protective device				RCD	Max per-mitted Zs Ω
					Live mm^2	cpc mm^2		BS(EN)	Type No	Rating A	Short circuit capa-city kA	Op. current $I\Delta n$	
1/L1	Sockets - Baby Room	A	B	3	2x2.5	2x1.5	0.4	60898 MCB	B	20	6	N/A	1.84
2/L1	Fused Spur - Central Heating Controls	A	B	1	2.5	1.5	0.4	60898 MCB	B	16	6	N/A	2.30
3/L1	Lighting - Baby Room	A	B	6	1.5	1.0	0.4	60898 MCB	B	6	6	N/A	6.14

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

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Board Tests

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

Zs	0.44 Ω	Operating times of associated RCD (if any)	At $I_{\Delta n}$	18.3 ms	
Ipf	0.52 kA		At $5I_{\Delta n}$	16.1 ms	
Correct supply polarity confirmed	✓	Phase sequence confirmed (where appropriate)		N/A	

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	101101853	RCD	101101853
Insulation resistance	101101853	Other	N/A
Continuity	101101853	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	Maximum measured earth fault loop impedance Ω	RCD operating times			Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Live/ Live MΩ	Live/ Neutral MΩ	Live/ Earth MΩ	Earth/ Neutral MΩ			At $I_{\Delta n}$ ms	At $5I_{\Delta n}$ 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	0.16	N/A	N/A	LIM	>999	>999	✓	0.60				NO
2/L1	N/A	N/A	N/A	0.08	N/A	N/A	LIM	>999	>999	✓	0.52				NO
3/L1	N/A	N/A	N/A	0.39	N/A	N/A	LIM	>999	>999	✓	0.84				NO

Tested By

Signature		Position	Electrical Test Engineer
Name	Ian Blake	Date of testing	25/09/2017

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

Testing of all sub mains, lighting and power circuits, within the constraints of the agreed limitations.

Agreed limitations including the reasons, Continued. from page 1

Unable to isolate the supply.Unable to access the sealed supply device characteristics. Ze and Ipf have been taken as close to the origin as possible.

Insulation resistance testing has been carried out to regulation 612.3.3 on circuits were it was impracticable to disconnect load.

Operational Limitations including the reasons, Continued. from page 1

When counting the number of points on each circuit, the number given relates to those points positively identified and it is possible that there are others that were not found.

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

The origin of the installation is at the front of the building, in a cupboard.

The main distribution supply enters DB 1 via mains fuses and metering equipment which in turn supplies one other distribution board within the premises.

There are two distribution boards within this installation :

DB 1 - Located at the front of the building, in the entrance lobby.
DB 2 - Located in the rear baby area.

PRESENCE & ADEQUACY OF EARTHING & BONDING

There are two other incoming services to the installation, water and natural gas.

The water stop tap could not be located at time of test. Further investigation required to verify if there is a Main Protective Bonding conductor in place.

The gas service is located in the kitchen and there is a 10mm Main Protective Bonding conductor which is suitably terminated to the pipework and in a satisfactory condition.

SUITABILITY OF SWITCHGEAR & CONTROL GEAR

Switchgear and control gear were assessed to be generally satisfactory for the uses employed.

TYPES OF WIRING SYSTEM & CONDITION

Several wiring systems have been adopted in this installation, with the majority being PVC/PVC "Twin & Earth" cable in PVC trunking, clipped direct and installed within the fabric of the building.

OTHERS:-

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Apart from the defects as referenced in section K of this report, the installation seems to be in a reasonable condition in regards to its type, use and age.

ABBREVIATIONS USED IN THIS REPORT

DB – Distribution board
MCB – Miniature circuit breaker
RCD – Residual current device
CPC – Circuit protective conductor

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CONDITION REPORT
GUIDANCE NOTES FOR RECIPIENTS

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

1. The purpose of this Condition 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 residual current devices (RCD) there should be a notice at or near the device stating that it should be tested quarterly. 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 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 competent person 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 competent person 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 the inspection has revealed an apparent deficiency which could not, due to the extent or limitations of this inspection, be fully identified. Such observations should be investigated as soon as possible. A further examination of the installation will be necessary, to determine the nature and extent of the apparent deficiency (see Section F).

10. For safety reasons, the electrical installation should be re-inspected at appropriate intervals by a competent person. 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.

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INSPECTION SCHEDULE FOR DISTRIBUTION BOARDS AND CIRCUITS

Item	Description	Outcome
1.0	**DISTRIBUTOR'S / SUPPLY INTAKE EQUIPMENT**	
1.1	Service cable condition	✓
1.2	Condition of Service head	✓
1.3	Condition of tails - Distributor	✓
1.4	Condition of tails - Consumer	✓
1.5	Condition of metering equipment	✓
1.6	Condition of Isolator (where present)	✓
2.0	Presence of adequate arrangements for other services, such as Microgenerators (551.6; 551.7)	**N/A**
3.0	**AUTOMATIC DISCONNECTION OF SUPPLY**	
3.1	**Earthing / Bonding Arrangements (411.3; Chap 54)**	
3.1.1	Presence of distributor's earthing arrangement **(542.1.2.1; 542.1.2.2)**	✓
3.1.2	Presence and condition of earth electrode connection where applicable **(542.1.2.3)**	**N/A**
3.1.3	Provision of earthing / bonding labels at all appropriate locations **(514.13.1)**	✓
3.1.4	Confirmation of earthing conductor size **(542.3; 543.1.1)**	✓
3.1.5	Accessibility and condition of earthing conductor at MET **(543.3.2)**	✓
3.1.6	Confirmation of main protective bonding conductor sizes **(544.1)**	**FI**
3.1.7	Condition and accessibility of main protective bonding conductor connections **(543.3.2)**	**FI**
3.1.8	Accessibility and condition of all protective bonding connections **(543.3.2)**	**FI**
3.2	**FELV**	
3.2.1	Source supplying at least simple separation **(411.7)**	**N/A**
3.2.2	Plugs, sockets-outlets and the like not interchangeable with those of other systems within the premises **(411.7.5)**	**N/A**
3.3	**Reduced low voltage**	
3.3.1	Adequacy of source **(411.8.4)**	**N/A**
3.3.2	Plugs, sockets-outlets and the like not interchangeable with those of other systems within the premises **(411.8.5)**	**N/A**

4.0	**OTHER METHODS OF PROTECTION (Where any of the methods listed below are employed details should be provided)**		Outcome
	Other Methods	**Details**	
4.1	Non-conducting location **(418.1)**		**N/A**
4.2	Earth-free local equipotential bonding **(418.2)**		**N/A**
4.3	Electrical separation for the supply to more than one item of current using equipment **(Sec 413; 418.3)**		**N/A**
4.4	Double insulation **(Section 412)**		**N/A**
4.5	Reinforced insulation **(Sec 412)**		**N/A**
4.6	Use of obstacles **(417.2)**		**N/A**
4.7	Placing out of reach **(417.3)**		**N/A**

5.0	**CONSUMER UNITS / DISTRIBUTION BOARDS**	Outcome
5.1	Adequacy of working space / accessibility to consumer unit / distribution board **(132.12)**	✓
5.2	Security of fixing **(416.2.3)**	✓
5.3	Condition of enclosure(s) in terms of IP rating etc **(416.2)**	✓
5.4	Condition of enclosure(s) in terms of fire rating etc **(526.5) (421.1.201)**	✓
5.5	Enclosure not damaged/deteriorated so as to impair safety **(621.2 (iii))**	✓
5.6	Presence of linked main switch **(as required by 537.1.4)**	✓
5.7	Operation of main switch (functional check) **(612.13.2)**	✓
5.8	Manual operation of circuit-breakers and RCDs to prove disconnection **(612.13.2)**	✓
5.9	Correct identification of circuit details and protective devices **(514.8.1; 514.9.1)**	**C3 (see section K)**
5.10	Presence of RCD quarterly test notice at or near consumer unit / distribution board **(514.12.2)**	✓
5.11	Presence of non-standard (mixed) cable colour warning notice at or near consumer unit / distribution board **(514.14)**	✓
5.12	Presence of alternative supply warning notice near consumer unit / dist board **(514.15)**	**N/A**
5.13	Presence of other required labelling **(Section 514)**	✓
5.14	Examination of protective device(s) and base(s); correct type and rating (no signs of unacceptable thermal damage, arcing and overheating **(421.1.3)**	✓
5.15	Single-pole protective devices in line conductor only **(132.14.1; 530.3.2)**	✓
5.16	Protection against mechanical damage where cables enter consumer unit / distribution board **(522.8.1; 522.8.11)**	✓

INSPECTION SCHEDULE FOR DISTRIBUTION BOARDS AND CIRCUITS

5.0	**CONSUMER UNITS / DISTRIBUTION BOARDS Continued.**	**Outcome**
5.17	Protection against electromagnetic effects where cables enter consumer unit / distribution board / enclosures **(521.5.1)**	✓
5.18	RCD(s) provided for fault protection – includes RCBOs **(411.4.9; 411.5.2; 531.2)**	**N/A**
5.19	RCD(s) provided for additional protection - includes RCBOs **(411.3.3; 415.1)**	✓
5.20	Condition of insulation of live parts **(416.1)**	✓
5.21	Adequacy / security of barriers **(416.2)**	✓
5.22	Confirmation that integral test button / switch causes RCD(s) to trip when operated (functional check) **(612.13.1)**	✓
5.23	Presence of diagrams, charts or schedules at or near equipment, where required **(514.9.1)**	**C3 (see section K)**
5.24	Correct identification of circuit protective devices **(533.1)**	✓
6.0	**MAIN DISTRIBUTION & FINAL CIRCUITS**	**Outcome**
6.1	Identification of conductors **(514.3.1)**	✓
6.2	Cables correctly supported throughout their run **(522.8.5) (521.11.201)**	✓
6.3	Condition of insulation of live parts **(416.1)**	✓
6.4	Non-sheathed cables protected by enclosure in conduit, ducting or trunking **(521.10.1)**	**N/A**
6.5	Suitability of containment systems for continued use (including flex conduit) **(Section 522)**	✓
6.6	Cables correctly terminated in enclosures **(Section 526)**	✓
6.7	Examination of cables for signs of unacceptable thermal or mechanical damage / deterioration **(421.1; 522.6.1)**	✓
6.8	Adequacy of cables for current-carrying capacity with regard for the type and nature of installation **(Section 523)**	✓
6.9	Adequacy of protective devices: type and rated current for fault protection **(Section 434)**	✓
6.10	Presence and adequacy of circuit protective conductors **(411.3.1.1; 543.1)**	✓
6.11	Coordination between conductors and overload protective devices **(433.1; 533.2.1)**	✓
6.12	Cable installation methods / practices with regard to the type and nature of installation and external influences **(Section 522)**	✓
6.13	Where exposed to direct sunlight, cable of a suitable type **(522.11.1)**	✓
6.14	**Cables concealed under floors, above ceilings, in walls / partitions less than 50 mm from a surface, and in partitions containing metal parts.**	
6.14.1	Installed in prescribed zones (see Section D. Extent and limitations) **(522.6.101)** or	**N/V**
6.14.2	Incorporating earthed armour or sheath, or run within earthed wiring system. or otherwise protected against mechanical damage by nails, screws and the like (see Section D. Extent and limitations) **(522.6.201; 522.6.203)**	**Lim**
6.14.3	Provision of additional protection by 30mAmp RCD **(522.6.101; 522.6.103)**	✓
6.15	**Provision of additional protection by 30mAmp RCD**	
6.15.1	Where reasonably likely to be used to supply mobile equipment outdoors. **(411.3.3 (ii))**	✓
6.15.2	For all socket outlets of 20 Amp or less provided for use by ordinary people. **(411.3.3 (i))**	✓
6.16	**Termination of cables at enclosures**	
6.16.1	Connections under undue strain **(522.8)**	✓
6.16.2	The basic insulation of a conductor visible outside an enclosure. **(526.2)**	✓
6.16.3	Connections of live conductors adequately enclosed. **(416.1)**	✓
6.16.4	Adequacy of connection at point of entry to enclosure (gland, bush or similar) **(522.8)**	✓
6.17	Provision of fire barriers, seals and protection against thermal effects **(Section 527)**	**Lim**
6.18	Band II cables segregated Separated from Band I cables **(528.1)**	**Lim**
6.19	Cables segregated / separated from non-electrical services **(528.3)**	✓
6.21	Temperature rating of cable insulation **(522.1.1; Table 52.1)**	✓
6.22	Condition of circuit accessories **(Section 416)**	✓
6.23	Suitability of circuit accessories for external influences **(512.2)**	✓
7.0	**ISOLATION AND SWITCHING**	**Outcome**
7.1	**Isolators (537.2)**	
7.1.1	Presence and condition of appropriate devices for isolation **(537.2.2)**	✓
7.1.2	Acceptable location - if local or remote from equipment in question **(537.2.1.5)**	✓
7.1.3	Capable of being secured in the OFF position **(537.2.1.2)**	✓
7.1.4	Correct operation verified **(612.13.2)**	✓
7.1.5	Clearly identified by position and / or durable marking **(537.2.2.6)**	✓
7.1.6	Warning label posted in situations where live parts cannot be isolated by the operation of a single device **(514.11.1; 537.2.1.3)**	**N/A**

INSPECTION SCHEDULE FOR DISTRIBUTION BOARDS AND CIRCUITS

7.0	**ISOLATION AND SWITCHING Continued.**	**Outcome**
7.2	**Switching off for mechanical maintenance (537.3)**	
7.2.1	Presence and condition of appropriate devices **(537.3.1.1)**	✓
7.2.2	Acceptable location / Clearly identified by position and or durable marking **(537.3.2.4)**	✓
7.2.3	Capable of being secured in the OFF position **(537.3.2.3)**	✓
7.2.4	Correct operation verified **(612.13.2)**	✓
7.2.5	Clearly identified by position and / or durable marking **(537.2.2.6)**	✓
7.3	**Emergency switching / stopping (537.4)**	
7.3.1	Presence and condition of appropriate devices **(537.4.1.1)**	**N/A**
7.3.2	Readily accessible for operation where danger might occur **(537.4.2.5)**	**N/A**
7.3.3	Correct operation Verified **(537.4.2.6)**	**N/A**
7.3.4	Clearly identified by position and / or durable marking **(537.4.2.7)**	**N/A**
7.4	**Functional switching (537.5)**	
7.4.1	Presence and condition of appropriate devices **(537.5.1.1)**	✓
7.4.2	Correct operation verified **(537.5.1.3; 537.5.2.2)**	✓
8.0	**CURRENT-USING EQUIPMENT (PERMANENTLY CONNECTED)**	**Outcome**
8.1	Condition of equipment in terms of IP rating etc **(416.1)**	✓
8.2	Equipment dose not constitute a fire hazard **(Section 421)**	✓
8.3	Enclosure not damaged deteriorated so as to impair safety **(Section 416)**	✓
8.4	Suitability for the environment and external influences **(512.2)**	✓
8.5	Security of fixing **(416.2.3)**	✓
8.6	**Recessed luminaries (down lighters)**	
8.6.1	Correct type of lamps fitted **(559.4.1)**	✓
8.6.2	Installed to minimize build-up of heat by use of "fire rated" fittings. Insulation displacement box or similar. Cable entry holes in ceiling above luminaries, sized or sealed so as to restrict the spread of fire: **(421.1.1)**	**Lim**
8.6.3	No signs of overheating to surrounding building fabric **(559.5.1)**	✓
8.6.4	No signs of overheating to conductors / terminations **(526.1)**	✓
9.0	**LOCATION(S) CONTAINING A BATH OR SHOWER**	**Outcome**
9.1	Additional protection for all low voltage (LV) circuits by RCD not exceeding 30mA **(701.411.3.3)**	**N/A**
9.2	Where used as a protective measure, requirements for SELV or PELV met **(701.414.4.5)**	**N/A**
9.3	Shaver sockets comply with BS EN 61558-2-5 formally BS 3535 **(701.512.3)**	**N/A**
9.4	Presence of supplementary bonding conductors, unless not required by BS 7671:2008 **(701.415.2)**	**N/A**
9.5	Low Voltage (e.g.230 volts) socket outlets at least 3m fromZone 1 **(701.512.3)**	**N/A**
9.6	Suitability of equipment for external influences for installed location in terms of IP rating **(701.512.2)**	**N/A**
9.7	Suitability of equipment for installation in a particular zone **(701.512.3)**	**N/A**
9.8	Suitability of current-using equipment for particular position within the location **(701.55)**	**N/A**
10.0	**ADDITIONAL INSPECTION FOR APPLICABLE SPECIAL LOCATIONS**	**Outcome**
10.1	Swimming pools and other basins **(702)**	**N/A**
10.2	Rooms and cabins containing sauna heaters **(703)**	**N/A**
10.3	Construction and demolition site installations **(704)**	**N/A**
10.4	Agricultural and horticultural premises **(705)**	**N/A**
10.5	Conducting locations with restricted movement **(706)**	**N/A**
10.6	Electrical installations in caravan . Camping parks and similar locations **(708)**	**N/A**
10.7	Marinas and similar locations **(709)**	**N/A**
10.8	Medical locations **(710)**	**N/A**
10.9	Exhibitions, shows and stands **(711)**	**N/A**
10.10	Solar photovoltaic (PV) power supply systems **(712)**	**N/A**
10.11	Mobile or transportable units **(717)**	**N/A**
10.12	Electrical installations in caravans and motor caravans **(721)**	**N/A**
10.13	Electric Vehicle Charging Stations **(722)**	**N/A**
10.14	Operating and maintenance gangways **(729)**	**N/A**
10.15	Temporary electrical installations for structures, amusement devices and booths at fairgrounds, amusement parks and circuses. **(740)**	**N/A**
10.16	Floor and ceiling heating systems **(753)**	**N/A**
10.17	Outdoor lighting Installations **(714)**	**N/A**
10.18	Extra -low voltage lighting installations **(715)**	**N/A**

Section K: Observations

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	0
C3 - Improvement recommended	2
FI - Further investigation required	1

110064710 - Master

Item No	Description				Outcome
	DB Reference	Make & Model (if applicable)	Circuit Designation / Location	Observation / Regulation	Code
1	N/A	N/A	Main Water Service	Unable to locate and verify the Main Protective Bonding Conductor is present at the main incoming water service. Reg 411.3.1.2	FI
2	DB 1	Contactum	Front Of Building	A detailed legible diagram, chart or table or equivalent form of information has not been provided in the vicinity of the distribution board indicating type and composition of circuits as well as other relevant information. Reg 514.9.1	C3
3	DB 2	Chint	Rear Baby Room	A detailed legible diagram, chart or table or equivalent form of information has not been provided in the vicinity of the distribution board indicating type and composition of circuits as well as other relevant information. Reg 514.9.1	C3