ELECTRICAL INSTALLATION CONDITION REPORT

265067 - Master

Lantei Compliance Services

A. Details of the Client/Person Ordering the Report

Client: Derbyshire County Council

Address:
County Hall
Matlock
Derbyshire
DE4 3AG

B. Reason for Producing this Report

Purpose of this report:
Essential information, which the client has requested, in accordance with the Electricity At Work Regulations 1989.
" As maybe necessary to prevent danger all systems
--See Additional Page--

Date(s) on which Inspection: and testing was carried out: 31/07/2018

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

Installation: Ladycross House HOP

Occupier: Ladycross House HOP

Address:
Travers Road
Sandiacre
Derbyshire
NG10 5GF

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

Other: N/A

Estimated age of wiring system: 50 yrs

Evidence of alterations or additions: ✓ If yes estimated Age 1+ 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:
A fixed wire test of all sub-mains and all lighting and power
--See Additional Page--

Agreed limitations including the reasons (See regulation 634.2)
Unable to access the sealed incoming device. Ze and Ipf was
--See Additional Page--

Agreed with name: Leigh Hales

Operational Limitations including the reasons (See page No 19)
Critical equipment could not be switched off in agreement with the Client/Site supervisor.
--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. 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)

The origin of electrical supply is located in the electrical switch room. This a three phase four wire system with TNC-S configuration.
--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' (code FI)*.
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 31/07/2023

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:
Lantei Compliance Services,
1A Essex Street,
Preston,
Lancashire,
PR1 1QE

NICEIC Enrolment Number: 502303

Branch No. (If Applicable): 000

Inspected and tested by:

Name	Position	Signature	Date
Chris Gray	Electrical Test Engineer		01/08/2018

Report authorised for issue by:

Name	Position	Signature	Date
Rob Walsh	Electrical Test Engineer		04/08/2018

H. Schedule(s)

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

8 Schedule(s) of inspection and 8 Schedule(s) of test results are attached

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I. Supply Characteristics and Earthing Arrangements

Earthing Arrangements

TN-S	N/A
TN-C-S	✓
TN-C	N/A
TT	N/A
IT	N/A

Number and Type of Live Conductors

a.c.	✓			d.c.	N/A
1-Phase (2 wire)	N/A	1-Phase (3 wire)	N/A	2 Wire	N/A
2-Phase (3 wire)	N/A			3 Wire	N/A
3-Phase (3 wire)	N/A	3-Phase (4 wire)	✓	Other	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)	2.40	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): SEALED

Type: N/A

Nominal current rating: N/A 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

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

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	Intake Position	Current rating	100 A	**if RCD main switch**	
Type BS(EN)	5419 Isolator	Fuse/Device rating or setting	LIM A	Rated residual operation current, IΔn	N/A mA
No of poles	3	Voltage rating	400 V	Rated time delay	N/A ms
Supply Conductors material	Copper			RCD Operating time at, IΔn	N/A ms
Supply Conductors csa	25 mm 2				

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	Observation: The main equipotential bonding to the water service is after a branch in the pipe work.	C3
	Location: Boiler Room	
	Regulation: 544.1.2	
2	Observation: The main equipotential bonding to the gas service is after a branch in the pipe work.	C3
	Location: Boiler Room	
	--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	7
C3 - Improvement recommended	11
FI - Further investigation required without delay	4

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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	Electrical Switch Room Dorman Smith	Supply to distribution board is from	N/A	Associated RCD (if any)	
		No of phases	N/A	Nominal Voltage	N/A V	BS(EN)	N/A
		Overcurrent protective device for the distribution circuit		RCD No of Poles	N/A
Distribution board designation	Sub Board	Type BS(EN)	N/A	Rating	N/A 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/TP	Sub Mains(DB A)	B	B	1	25.0	16.0	5	3871 MCB	4	60	3	N/A	0.96
2/L1	Sub Mains(DB C)	D	B	1	6.0	MECH	5	3871 MCB	4	30	3	N/A	2.00
2/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
2/L3	Sub Mains(DB B)	D	B	1	35.0	SWA	5	3871 MCB	4	70	3	N/A	0.83
3/L1	Sub Mains DB D	F	C	1	35.0	SWA	5	3871 MCB	4	60	3	N/A	0.96
3/L2	Sub Mains DB E	F	C	1	35.0	SWA	5	3871 MCB	4	60	3	N/A	0.96
3/L3	Sub Mains DB F	F	C	1	35.0	SWA	5	3871 MCB	4	60	3	N/A	0.96
4/L1	Sub Mains DB G	F	C	1	35.0	SWA	5	3871 MCB	4	50	3	N/A	1.20
4/L2	Sub Mains(DB H)	F	C	1	35.0	SWA	5	3871 MCB	4	60	3	N/A	0.96
4/L3	Sub Mains(DB I)	F	C	1	35.0	SWA	5	3871 MCB	4	70	3	N/A	0.83

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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SCHEDULE OF CIRCUIT TESTS FOR THE INSTALLATION

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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 Δ n	N/A ms
Ipf	N/A	kA		At 5I Δ n	N/A ms
Correct supply polarity confirmed	✓		Phase sequence confirmed (where appropriate)		N/A

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	3100031	RCD	3100031
Insulation resistance	3100031	Other	N/A
Continuity	3100031	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	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	Live/ Neutral	Live/ Earth	Earth/ Neutral			At I Δ n	At 5I Δ n	Test button operation	
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)	MΩ	MΩ	MΩ	MΩ		Ω	ms	ms		
1/TP	N/A	N/A	N/A	N/A	0.01	LIM	LIM	LIM	LIM	✓	0.20	N/A	N/A	N/A	NO
2/L1	N/A	N/A	N/A	N/A	0.01	N/A	LIM	LIM	LIM	✓	0.21	N/A	N/A	N/A	NO
2/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/L3	N/A	N/A	N/A	N/A	0.01	N/A	LIM	LIM	LIM	✓	0.20	N/A	N/A	N/A	NO
3/L1	N/A	N/A	N/A	LIM	N/A	N/A	LIM	LIM	LIM	✓	0.18	N/A	N/A	N/A	NO
3/L2	N/A	N/A	N/A	LIM	N/A	N/A	LIM	LIM	LIM	✓	0.16	N/A	N/A	N/A	NO
3/L3	N/A	N/A	N/A	LIM	N/A	N/A	LIM	LIM	LIM	✓	0.19	N/A	N/A	N/A	NO
4/L1	N/A	N/A	N/A	LIM	N/A	N/A	LIM	LIM	LIM	✓	0.22	N/A	N/A	N/A	NO
4/L2	N/A	N/A	N/A	LIM	N/A	N/A	LIM	LIM	LIM	✓	0.18	N/A	N/A	N/A	NO
4/L3	N/A	N/A	N/A	LIM	N/A	N/A	LIM	LIM	LIM	✓	0.16	N/A	N/A	N/A	NO

Tested By

Signature		Position	Electrical Test Engineer
Name	Chris Gray	Date of testing	31/07/2018

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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	Electrical Switch Room Crabtree	Supply to distribution board is from	SubMains(Sub Board, 1/TP)	Associated RCD (if any)	
		No of phases	3	Nominal Voltage 400 V	BS(EN) N/A
Distribution board designation	DB A	Overcurrent protective device for the distribution circuit			RCD No of Poles N/A
		Type BS(EN)	3871 MCB 4	Rating 60 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/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
2/TP	Dishwasher	D	B	1	2.5	MECH	0.4	3871 MCB	3	15	4.5	N/A	1.45
3/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
3/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
3/L3	Water Heater, Kitchen	A	B	1	2.5	1.5	0.4	3871 MCB	3	15	4.5	N/A	1.45
4/TP	Sub Mains(DB J)	F	C	1	25.0	SWA	5	3871 MCB	3	50	4.5	N/A	0.43

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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SCHEDULE OF CIRCUIT TESTS FOR THE INSTALLATION

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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	0.20	Ω	Operating times of associated RCD (if any)	At I Δ n	N/A ms
Ipf	2.40	kA		At 5I Δ n	N/A ms
Correct supply polarity confirmed	✓		Phase sequence confirmed (where appropriate)		N/A

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	3100031	RCD	3100031
Insulation resistance	3100031	Other	N/A
Continuity	3100031	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 Δ n ms	At 5I Δ n ms	Test button operation	
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)										
1/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/TP	N/A	N/A	N/A	0.08	N/A	LIM	LIM	>200	>200	✓	0.27	N/A	N/A	N/A	NO
3/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/L3	N/A	N/A	N/A	0.06	N/A	N/A	LIM	>200	>200	✓	0.26	N/A	N/A	N/A	NO
4/TP	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	✓	0.23	N/A	N/A	N/A	NO

Tested By

Signature		Position	Electrical Test Engineer
Name	Chris Gray	Date of testing	31/07/2018

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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	Electrical Switch Room Dorman Smith	Supply to distribution board is from	SubMains(Sub Board, 2/L3)	Associated RCD (if any)	
		No of phases	1	Nominal Voltage 230 V	BS(EN) N/A
		Overcurrent protective device for the distribution circuit			RCD No of Poles N/A
Distribution board designation	DB B	Type BS(EN)	3871 MCB 4	Rating 70 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 Live mm^2	Circuit conductors csa cpc mm^2	Max permitted disconnection times	Overcurrent protective device BS(EN)	Overcurrent protective device Type No	Overcurrent protective device Rating A	Overcurrent protective device Short circuit capacity kA	RCD Op. current $I\Delta n$	Max permitted Zs Ω
1/L3	Boiler FCU, Boiler Room	A	B	1	2.5	1.5	0.4	3871 MCB	4	10	3	N/A	4.29
2/L3	Sockets, Kitchen Dry Stores	D	B	2	2.5	LIM	0.4	3871 MCB	4	10	3	N/A	1.50
3/L3	Isolated At Time Of Test	D	B	LIM	1.5	LIM	0.4	3871 MCB	4	10	3	N/A	4.29
4/L3	Call System FCU, Main Entrance	A	C	1	2.5	1.5	0.4	3871 MCB	4	10	3	N/A	4.29
5/L3	RFC Sockets, Core Corridor	D	B	4	2.5	LIM	0.4	3871 MCB	4	30	3	N/A	0.66
6/L3	Untraced	D	B	LIM	1.5	LIM	0.4	3871 MCB	4	5	3	N/A	6.00
7/L3	Sub Mains(DB Garage)	D	B	1	6.0	LIM	5	3871 MCB	4	30	3	N/A	2.00
8/L3	Fans Isolator, Kitchen	D	B	1	1.5	LIM	0.4	3871 MCB	4	5	3	N/A	6.00
9/L3	Untraced	D	B	LIM	6.0	LIM	0.4	3871 MCB	4	25	3	N/A	0.83
10/L3	Lighting, Switch Room	D	B	1	1.5	LIM	0.4	3871 MCB	4	5	3	N/A	6.00
11/L3	Lighting, Kitchen Dry Store	D	B	7	1.5	LIM	0.4	3871 MCB	4	10	3	N/A	4.29
12/L3	Lighting, Kitchen	D	B	4	1.5	LIM	0.4	3871 MCB	4	10	3	N/A	4.29
13/L3	RFC RCD Socket, Kitchen	D	B	1	2.5	LIM	0.4	3871 MCB	4	30	3	N/A	0.66
14/L3	EM Panel FCUs, Store Adjacent Office	D	B	3	2.5	LIM	0.4	3871 MCB	4	10	3	N/A	4.29
15/L3	Fire Alarm	D	B	1	2.5	LIM	0.4	3871 MCB	4	10	3	N/A	4.29
16/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

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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	0.20 Ω	Operating times of associated RCD (if any)	At I Δ n	N/A	ms
Ipf	1.20 kA		At 5I Δ n	N/A	ms
Correct supply polarity confirmed	✓	Phase sequence confirmed (where appropriate)		N/A	

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	3100031	RCD	3100031
Insulation resistance	3100031	Other	N/A
Continuity	3100031	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	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	Live/ Neutral	Live/ Earth	Earth/ Neutral			At I Δ n	At 5I Δ n	Test button operation	
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)	MΩ	MΩ	MΩ	MΩ		Ω	ms	ms		
1/L3	N/A	N/A	N/A	0.05	N/A	N/A	LIM	>200	>200	✓	0.24	N/A	N/A	N/A	NO
2/L3	N/A	N/A	N/A	0.12	N/A	N/A	LIM	>200	>200	✓	0.30	N/A	N/A	N/A	NO
3/L3	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>200	>200		LIM	N/A	N/A	N/A	NO
4/L3	N/A	N/A	N/A	0.14	N/A	N/A	LIM	>200	>200	✓	0.33	N/A	N/A	N/A	NO
5/L3	0.33	0.32	LIM	0.15	N/A	N/A	LIM	>200	>200	✓	0.33	N/A	N/A	N/A	NO
6/L3	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>200	>200		LIM	N/A	N/A	N/A	NO
7/L3	N/A	N/A	N/A	0.22	N/A	N/A	LIM	>200	>200	✓	0.39	N/A	N/A	N/A	NO
8/L3	N/A	N/A	N/A	0.26	N/A	N/A	LIM	>200	>200	✓	0.45	N/A	N/A	N/A	NO
9/L3	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>200	>200		LIM	N/A	N/A	N/A	NO
10/L3	N/A	N/A	N/A	0.05	N/A	N/A	LIM	>200	>200	✓	0.23	N/A	N/A	N/A	NO
11/L3	N/A	N/A	N/A	0.19	N/A	N/A	LIM	>200	>200	✓	0.38	N/A	N/A	N/A	NO
12/L3	N/A	N/A	N/A	0.32	N/A	N/A	LIM	>200	>200	✓	0.54	N/A	N/A	N/A	NO
13/L3	0.25	0.25	LIM	0.12	N/A	N/A	LIM	>200	>200	✓	0.31	N/A	N/A	N/A	NO
14/L3	N/A	N/A	N/A	0.31	N/A	N/A	LIM	>200	>200	✓	0.52	N/A	N/A	N/A	NO
15/L3	N/A	N/A	N/A	LIM	N/A	N/A	LIM	LIM	LIM	✓	0.32	N/A	N/A	N/A	NO
16/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature		Position	Electrical Test Engineer
Name	Chris Gray	Date of testing	31/07/2018

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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	Electrical Switch Room Dorman Smith	Supply to distribution board is from	SubMains(Sub Board, 2/L1)	Associated RCD (if any)	
		No of phases	1	Nominal Voltage 230 V	BS(EN) N/A
		Overcurrent protective device for the distribution circuit			RCD No of Poles N/A
Distribution board designation	DB C	Type BS(EN)	3871 MCB 4	Rating 30 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	Potato Peeler FCU	D	B	1	2.5	MECH	0.4	3871 MCB	4	10	3	N/A	4.29
2/L1	Mixer Isolator	D	B	1	2.5	MECH	0.4	3871 MCB	4	5	3	N/A	6.00
3/L1	Freezer Socket LHS	D	B	1	2.5	MECH	0.4	3871 MCB	4	15	3	N/A	1.41
4/L1	Freezer Socket RHS	D	B	1	2.5	MECH	0.4	3871 MCB	4	15	3	N/A	1.41
5/L1	Socket, Kitchen Far	D	B	1	2.5	MECH	0.4	3871 MCB	4	15	3	N/A	1.41
6/L1	Dishwasher Socket	D	B	1	2.5	MECH	0.4	3871 MCB	4	7.5	3	N/A	1.60
7/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
8/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

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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	0.21 Ω	Operating times of associated RCD (if any)	At I Δ n	N/A	ms
Ipf	1.20 kA		At 5I Δ n	N/A	ms
Correct supply polarity confirmed	✓	Phase sequence confirmed (where appropriate)		N/A	

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	3100031	RCD	3100031
Insulation resistance	3100031	Other	N/A
Continuity	3100031	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	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	Live/ Neutral	Live/ Earth	Earth/ Neutral			At I Δ n	At 5I Δ n	Test button operation	
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)	MΩ	MΩ	MΩ	MΩ		Ω	ms	ms		
1/L1	N/A	N/A	N/A	0.19	N/A	N/A	LIM	>200	>200	✓	0.38	N/A	N/A	N/A	NO
2/L1	N/A	N/A	N/A	0.34	N/A	N/A	LIM	>200	>200	✓	0.55	N/A	N/A	N/A	NO
3/L1	N/A	N/A	N/A	0.21	N/A	N/A	LIM	>200	>200	✓	0.40	N/A	N/A	N/A	NO
4/L1	N/A	N/A	N/A	0.18	N/A	N/A	LIM	>200	>200	✓	0.35	N/A	N/A	N/A	NO
5/L1	N/A	N/A	N/A	0.39	N/A	N/A	LIM	>200	>200	✓	0.59	N/A	N/A	N/A	NO
6/L1	N/A	N/A	N/A	0.25	N/A	N/A	LIM	>200	>200	✓	0.42	N/A	N/A	N/A	NO
7/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature		Position	Electrical Test Engineer
Name	Chris Gray	Date of testing	31/07/2018

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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	Matrons Flat Dorman Smith	Supply to distribution board is from	SubMains(Sub Board, 4/L2)	Associated RCD (if any)	
		No of phases	1	Nominal Voltage 230 V	BS(EN) N/A
Distribution board designation	DB H	Overcurrent protective device for the distribution circuit			RCD No of Poles N/A
		Type BS(EN)	3871 MCB 4	Rating 60 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	Overcurrent protective device				RCD	Max permitted Zs
					Live mm^2	cpc mm^2		BS(EN)	Type No	Rating A	Short circuit capacity kA	Op. current $I\Delta n$	Ω
1/L2	Lighting, Flat 2	A	C	6	1.5	1.0	0.4	3871 MCB	4	10	3	N/A	4.29
2/L2	Lighting, Flat 1	A	C	6	1.5	1.0	0.4	3871 MCB	4	10	3	N/A	4.29
3/L2	RFC Sockets, Flat 2	A	C	4	2.5	1.5	0.4	3871 MCB	4	30	3	N/A	0.66
4/L2	RFC Sockets, Flat 1	A	C	4	2.5	1.5	0.4	3871 MCB	4	30	3	N/A	0.66
5/L2	Cooker Flat 2	A	C	1	6.0	2.5	5	3871 MCB	4	40	3	N/A	1.50
6/L2	Cooker Flat 1	A	C	1	6.0	2.5	5	3871 MCB	4	40	3	N/A	1.50
7/L2	Socket, Flat 1 Lobby	A	C	1	2.5	1.5	0.4	3871 MCB	4	15	3	N/A	1.41
8/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

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SCHEDULE OF CIRCUIT TESTS FOR THE INSTALLATION

265067 - Master

Board Tests

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

Zs	0.18 Ω	Operating times of associated RCD (if any)	At I Δ n	N/A	ms
Ipf	1.18 kA		At 5I Δ n	N/A	ms
Correct supply polarity confirmed	✓	Phase sequence confirmed (where appropriate)		N/A	

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	3100031	RCD	3100031
Insulation resistance	3100031	Other	N/A
Continuity	3100031	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	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	Live/ Neutral	Live/ Earth	Earth/ Neutral			At I Δ n	At 5I Δ n	Test button operation	
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)	MΩ	MΩ	MΩ	MΩ		Ω	ms	ms		
1/L2	N/A	N/A	N/A	0.22	N/A	N/A	LIM	>200	>200	✓	0.39	N/A	N/A	N/A	NO
2/L2	N/A	N/A	N/A	0.31	N/A	N/A	LIM	>200	>200	✓	0.51	N/A	N/A	N/A	NO
3/L2	0.31	0.30	0.51	0.20	N/A	N/A	LIM	>200	>200	✓	0.36	N/A	N/A	N/A	NO
4/L2	0.41	0.43	0.56	0.25	N/A	N/A	LIM	>200	>200	✓	0.37	N/A	N/A	N/A	NO
5/L2	N/A	N/A	N/A	0.05	N/A	N/A	LIM	>200	>200	✓	0.23	N/A	N/A	N/A	NO
6/L2	N/A	N/A	N/A	0.08	N/A	N/A	LIM	>200	>200	✓	0.25	N/A	N/A	N/A	NO
7/L2	N/A	N/A	N/A	0.15	N/A	N/A	LIM	>200	>200	✓	0.31	N/A	N/A	N/A	NO
8/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature		Position	Electrical Test Engineer
Name	Chris Gray	Date of testing	01/08/2018

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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	Laundry Store Room Dorman Smith	Supply to distribution board is from	SubMains(Sub Board, 4/L3)	Associated RCD (if any)	
		No of phases	1	Nominal Voltage 230 V	BS(EN) N/A
Distribution board designation	DB I	Overcurrent protective device for the distribution circuit			RCD No of Poles N/A
		Type BS(EN)	3871 MCB 4	Rating 70 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	Overcurrent protective device				RCD	Max permitted Zs
					Live mm^2	cpc mm^2		BS(EN)	Type No	Rating A	Short circuit capacity kA	Op. current $I\Delta n$	Ω
1/L3	Lighting, Lounge	A	C	11	1.5	1.0	0.4	3871 MCB	4	7.5	3	N/A	4.80
2/L3	Lighting, Entrance Lobby	A	C	8	1.5	1.0	0.4	3871 MCB	4	5	3	N/A	6.00
3/L3	Lighting, Office/WC/Battery Room	A	C	4	1.5	1.0	0.4	3871 MCB	4	10	3	N/A	4.29
4/L3	Lighting, Laundry Store	A	C	1	1.5	1.0	0.4	3871 MCB	4	7.5	3	N/A	4.80
5/L3	Lighting, Corridor Far	A	C	3	2.5	1.5	0.4	3871 MCB	4	10	3	N/A	4.29
6/L3	Lighting, Corridor Near	A	C	7	1.5	1.0	0.4	3871 MCB	4	10	3	N/A	4.29
7/L3	Lighting, Driveway	A	C	4	1.5	1.0	0.4	3871 MCB	4	10	3	N/A	4.29
8/L3	Lighting, Laundry/Stores/Corridor Centre	A	C	4	1.5	1.0	0.4	3871 MCB	4	10	3	N/A	4.29
9/L3	Lighting, Laundry/ Staff Room	A	C	4	1.5	1.0	0.4	3871 MCB	4	10	3	N/A	4.29
10/L3	Heater, Entrance	A	C	1	1.5	1.0	0.4	3871 MCB	4	5	3	N/A	6.00
11/L3	RFC Sockets, Office Area/Server	A	C	6	2.5	1.5	0.4	3871 MCB	4	30	3	N/A	0.66
12/L3	RFC Sockets, Corridor/Lounge	A	C	4	2.5	1.5	0.4	3871 MCB	4	30	3	N/A	0.66
13/L3	RFC Sockets, Laundry/Staff Room	A	C	5	2.5	1.5	0.4	3871 MCB	4	30	3	N/A	0.66
14/L3	Untraced	A	C	LIM	4.0	1.5	0.4	3871 MCB	4	20	3	N/A	0.92
15/L3	Untraced	A	C	LIM	6.0	2.5	0.4	3871 MCB	4	30	3	N/A	0.92

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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SCHEDULE OF CIRCUIT TESTS FOR THE INSTALLATION

265067 - Master

Board Tests

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

Zs	0.16 Ω	Operating times of associated RCD (if any)	At I Δ n	N/A	ms
Ipf	1.14 kA		At 5I Δ n	N/A	ms
Correct supply polarity confirmed	✓	Phase sequence confirmed (where appropriate)		N/A	

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	3100031	RCD	3100031
Insulation resistance	3100031	Other	N/A
Continuity	3100031	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	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	Live/ Neutral	Live/ Earth	Earth/ Neutral			At I Δ n	At 5I Δ n	Test button operation	
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)	MΩ	MΩ	MΩ	MΩ		Ω	ms	ms		
1/L3	N/A	N/A	N/A	0.30	N/A	N/A	LIM	>200	>200	✓	0.45	N/A	N/A	N/A	NO
2/L3	N/A	N/A	N/A	0.49	N/A	N/A	LIM	>200	>200	✓	0.65	N/A	N/A	N/A	NO
3/L3	N/A	N/A	N/A	0.40	N/A	N/A	LIM	>200	>200	✓	0.54	N/A	N/A	N/A	NO
4/L3	N/A	N/A	N/A	0.03	N/A	N/A	LIM	>200	>200	✓	0.23	N/A	N/A	N/A	NO
5/L3	N/A	N/A	N/A	0.50	N/A	N/A	LIM	>200	>200	✓	0.69	N/A	N/A	N/A	NO
6/L3	N/A	N/A	N/A	0.32	N/A	N/A	LIM	>200	>200	✓	0.46	N/A	N/A	N/A	NO
7/L3	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>200	>200		LIM	N/A	N/A	N/A	NO
8/L3	N/A	N/A	N/A	0.41	N/A	N/A	LIM	>200	>200	✓	0.53	N/A	N/A	N/A	NO
9/L3	N/A	N/A	N/A	0.36	N/A	N/A	LIM	>200	>200	✓	0.52	N/A	N/A	N/A	NO
10/L3	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>200	>200		LIM	N/A	N/A	N/A	NO
11/L3	LIM	LIM	LIM	LIM	N/A	N/A	LIM	LIM	LIM	✓	0.42	N/A	N/A	N/A	NO
12/L3	0.53	0.53	0.80	0.33	N/A	N/A	LIM	>200	>200	✓	0.45	N/A	N/A	N/A	NO
13/L3	0.34	0.35	0.69	0.24	N/A	N/A	LIM	>200	>200	✓	0.38	N/A	N/A	N/A	NO
14/L3	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>200	>200		LIM	N/A	N/A	N/A	NO
15/L3	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>200	>200		LIM	N/A	N/A	N/A	NO

Tested By

Signature		Position	Electrical Test Engineer
Name	Chris Gray	Date of testing	31/07/2018

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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	Laundry Crabtree	Supply to distribution board is from	SubMains(DB A, 4/TP)	Associated RCD (if any)	
		No of phases	3	Nominal Voltage 400 V	BS(EN) N/A
Distribution board designation	DB J	Overcurrent protective device for the distribution circuit			RCD No of Poles N/A
		Type BS(EN)	3871 MCB 3	Rating 50 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/TP	Isolator - WM2	H	C	1	2.5	MICC	0.4	3871 MCB	3	20	4.5	N/A	1.09
2/TP	Isolator - TD1&2	H	C	1	2.5	MICC	0.4	3871 MCB	3	20	4.5	N/A	1.09
3/TP	Isolator - WM1	H	C	1	2.5	MICC	0.4	3871 MCB	3	30	4.5	N/A	0.72
4/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

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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	0.23 Ω	Operating times of associated RCD (if any)	At I Δ n	N/A	ms
Ipf	2.18 kA		At 5I Δ n	N/A	ms
Correct supply polarity confirmed	✓	Phase sequence confirmed (where appropriate)		N/A	

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	3100031	RCD	3100031
Insulation resistance	3100031	Other	N/A
Continuity	3100031	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	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	Live/ Neutral	Live/ Earth	Earth/ Neutral			At I Δ n	At 5I Δ n	Test button operation	
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)	MΩ	MΩ	MΩ	MΩ		Ω	ms	ms		
1/TP	N/A	N/A	N/A	0.04	N/A	LIM	LIM	>200	>200	✓	0.28	N/A	N/A	N/A	NO
2/TP	N/A	N/A	N/A	0.03	N/A	LIM	LIM	>200	>200	✓	0.26	N/A	N/A	N/A	NO
3/TP	N/A	N/A	N/A	0.04	N/A	LIM	LIM	>200	>200	✓	0.27	N/A	N/A	N/A	NO
4/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature		Position	Electrical Test Engineer
Name	Chris Gray	Date of testing	31/07/2018

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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	Garage Dorman Smith	Supply to distribution board is from	SubMains(DB B, 7/L3)	Associated RCD (if any)	
		No of phases	1	Nominal Voltage 230 V	BS(EN) N/A
Distribution board designation	DB Garage	Overcurrent protective device for the distribution circuit			RCD No of Poles N/A
		Type BS(EN)	3871 MCB 4	Rating 30 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 mm2	cpc mm2		BS(EN)	Type No	Rating A	Short circuit capa-city kA	Op. current I Δ n	
1/L3	Lighting	D	B	3	1.5	MECH	0.4	3871 MCB	4	10	3	N/A	0.43
2/L3	RCD Socket	D	B	1	2.5	MECH	0.4	3871 MCB	4	20	3	30	0.21
3/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
4/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
5/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
6/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
7/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
8/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

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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	0.39 Ω	Operating times of associated RCD (if any)	At I Δ n	N/A	ms
Ipf	0.988 kA		At 5I Δ n	N/A	ms
Correct supply polarity confirmed	✓	Phase sequence confirmed (where appropriate)		N/A	

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Earth fault loop impedance	3100031	RCD	3100031
Insulation resistance	3100031	Other	N/A
Continuity	3100031	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	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	Live/ Neutral	Live/ Earth	Earth/ Neutral			At I Δ n	At 5I Δ n	Test button operation	
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$(R_1 + R_2)$	(R_2)	MΩ	MΩ	MΩ	MΩ		Ω	ms	ms		
1/L3	N/A	N/A	N/A	0.22	N/A	N/A	LIM	>200	>200	✓	0.59	N/A	N/A	N/A	NO
2/L3	N/A	N/A	N/A	0.08	N/A	N/A	LIM	>200	>200	✓	0.45	44	23	✓	NO
3/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature		Position	Electrical Test Engineer
Name	Chris Gray	Date of testing	31/07/2018

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Purpose of this report, Continued. from page 1

shall be maintained so as to prevent, so as far reasonably practical such danger. "

Agreed limitations including the reasons, Continued. from page 1

taken at the nearest accessible live point to the origin of the supply.
Where an electrical installation can't be isolated from the supply, the protective and main bonding conductors must NOT be disconnected as under fault conditions the exposed and extraneous conductive parts could be raised to a dangerous level above earth potential.
Circuits not located within a reasonable amount of time designated as " Circuit not found " with limitations of any live testing and R1+R2.
Not every circuit final termination was accessible. Therefore some readings were ascertained at next most practical point in the circuit.
Insulation resistance of circuits was tested in accordance with regulation 612.3.3 on circuits where it was impracticable to disconnect the load.

Operational Limitations including the reasons, Continued. from page 1

Recently upgraded distribution boards within the bedroom wings have not been tested as requested.
Some final circuits supplied from DBs within in the switch room are thought to be wired in a mixture of twin&earth and MICC cable although these could not be determined or traced due to disturbance of asbestos material involved in removal of trunking lid to investigate. Affected circuits have had cpc's recorded as 'LIM'
Server not isolated as UPS presence unknown

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

Wired from the cut out are the 35mm csa copper conductors, which feed the main distribution board. The main DB is a 4 way enclosure, with MCB's used as over current protection. Wired from the section panel are all the distribution circuits throughout the installation. Ze and Ipf where ascertained from the load side of the main switch within the section panel.

The MET is located at the intake position. All conductors have been checked for tightness and have been adequately terminated. The main earth is present here and adequately bonded with a 16mm earthing conductor. The main water intake is located in the boiler room and has been adequately bonded with a 10mm conductor. The main gas intake is also located in the boiler room and has also been adequately bonded with a 10mm conductor.

The building is used for commercial purposes and should be subject to an Inspection and Test every 5 years in accordance with table 3.2 in guidance note 3.

The inspection comprised of looking for any breakages in cables. Identifying any wear and tear or deterioration. Identification of any signs of overheating on switch gear. Accessories and wiring systems were inspected to see if there were any missing parts i.e. covers or screws. Where possible any loose connections or fixings have been tightened or re terminated. I can confirm that access to switch gear was adequate. All Distribution Boards and switch gear where inspected and all doors and enclosures where checked to make sure they were secure.

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

final circuits within the core areas of the building only. With a visual inspection within the constraints of the limitations.

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Observations Continued from Page 2

Item No	Description	Code
	m Regulation: 544.1.2	
3	Observation: Damaged socket outlet (1g white plastic) Location: Core Corridor outside Staff Room Regulation: 416.2	C2
4	Observation: All untraced circuits must have their circuit designations verified Location: DB B - 6L3 & 9L3 Regulation: 514.8.1	FI
5	Observation: MCB switched off at time of test and not locked off. Cables which have been left connected into the MCB, and at the field end are believed to be terminated in a suitable accessory but not proven due to agreed limitations. Cables should be removed to prevent them from being inadvertently energized Location: DB B - 3L3 Regulation: 537.2.1.2	FI
6	Observation: There is no earth bar inside the distribution board. CPC's of final circuits are terminated to a common bolt and could potentially come loose Location: Sub Board/ DB B/ DB C Regulation: 543.2.2 (iii)	C2
7	Observation: There is no additional RCD protection for circuits supplying socket outlets not exceeding 20A . It is recommended that 30mA RCD,s are installed to provide additional protection or socket outlets are suitably labelled /otherwise suitably identified for connection of particular items of equipment. Location: DB B - 2L3 Regulation: 411.3.3	C3
8	Observation: RCD protection shall be provided for socket outlets that could potentially be used to supply portable appliances outside Location: DB B - 5L3 Regulation: 411.3.3 (ii)	C2
9	Observation: Incorrect IP protection for accessories located in close proximity to a sink and/or draining board (damaged IP rated socket) Location: DB C - 6L1 Regulation: 512.2.1	C2
10	Observation: There is no additional RCD protection for circuits supplying socket outlets not exceeding 20A . It is	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

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Observations Continued from Page 2

Item No	Description	Code
	recommended that 30mA RCD,s are installed to provide additional protection or socket outlets are suitably labelled /otherwise suitably identified for connection of particular items of equipment. Location: DB C - 3L1/4L1/5L1/6L1 Regulation: 411.3.3	
11	Observation: Examination of cables for signs of unacceptable thermal or mechanical damage / deterioration. Note - thermal damage to final circuits within DB enclosure Location: DB I - 4L3 & 6L3 Regulation: 421.1; 522.6.1	FI
12	Observation: Circuits are not arranged or marked so they can be identified for inspection and testing. Note - undersized earth bar-cpcs twisted and terminated into one terminal Location: DB I Regulation: 514.1.2	C3
13	Observation: Cables are not adequately supported. MICC cable hanging loose requires clips Location: Garage/ Outbuildings Regulation: 522.8.4	C2
14	Observation: All untraced circuits must have their circuit designations verified Location: DB I - 14L3 & 15L3 Regulation: 514.8.1	FI
15	Observation: Blanks missing is spare ways (Obsolete Dorman Smith type) Location: DB H Regulation: 416.2.1	C2
16	Observation: There is no additional RCD protection for circuits supplying socket outlets not exceeding 20A . It is recommended that 30mA RCD,s are installed to provide additional protection or socket outlets are suitably labelled /otherwise suitably identified for connection of particular items of equipment. Location: DB H - 3L2/4L2/7L2 Regulation: 411.3.3	C3
17	Observation: There is no additional RCD protection for circuits supplying socket outlets not exceeding 20A . It is recommended that 30mA RCD,s are installed to provide additional protection or socket outlets are suitably labelled /otherwise suitably identified for connection of particular items of equipment. Location: DB I - 11L3/12L3/13L3 Regulation: 411.3.3	C3

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Observations Continued from Page 2

Item No	Description	Code
18	Observation: Light fitting is missing diffuser (IP baton 6ft) Location: Matron Flat 1 Regulation: 559.5.2	C3
19	Observation: Light fitting is missing diffuser (IP baton 6ft) Location: Matron Flat 2 Regulation: 559.5.2	C3
20	Observation: Light fitting is missing diffuser (Lampholder shade) Location: Matron Flat Bathroom Regulation: 559.5.2	C3
21	Observation: Light fitting is missing diffuser (EM bulkhead) Location: Matron Flat Landing Regulation: 559.5.2	C3
22	Observation: Damaged lighting baton holder Location: Rear Garage Regulation: 416.2	C2

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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 skilled person 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 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 (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 could not, due to the extent or limitations of this 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.

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