

NHS Highland
Finance Department
Assynt House
Beechwood Park
Inverness
IN2 3BW

MacColl House
Woodrow
Eurocentral
Glasgow
ML1 4YQ

FAO: Brian Johnstone
Electrical Installation Condition Report
Ref: 261412/990859/1

Tel: 01698 731525
Fax: 01698 731568
23 September 2020

Dear Sir / Madam

LOCATION - Glen Court, DB Main Section Board - Full Inst., Raigmore Hospital

Please find enclosed the recently completed Electrical Installation Condition Report for the Electrical Installation detailed above. The Report has been compiled in accordance with BS7671 (as amended), The Institution of Engineering and Technology (IET) requirements for Electrical Installations including IET Guidance Note Three, Inspection and Testing.

The Electrical Installation Condition Report is presented in the following format:

Section 1	Report Summary, Extent and Limitations, Guidance for Recipients
Section 2	Installation Details
Section 3	Schedule of Items Requiring Inspection
Section 4	Observations and Recommendations for Action to be taken
Section 5	Index of Equipment Reports
Section 6	Equipment Reports

Electrical installations are required to be Inspected and Tested at regular intervals by a skilled person(s) competent in such work, due to wear and tear and external influences such as vermin damage and general deterioration.

It is recommended that the installation is further Inspected and Tested on the "next due" date indicated in Section 1, providing any defects identified in Section 4 have been dealt with in line with the recommendations made in this Condition Report.

I trust this is satisfactory and if I can be of any further assistance please do not hesitate to contact me.

Yours faithfully

Inspection and Test Manager

Electrical Installation Condition Report Summary Ref: 261412/990859/1

Client Details		Installation Tested	
Client Address	NHS Highland Finance Department Assynt House Beechwood Park Inverness	Occupier Address	NHS Highland Glen Court Raigmore Hospital Inverness
Post Code	IN2 3BW	Post Code	IV2 3YW
		Area Tested	DB Main Section Board - Full Inst.

Purpose of Report

To assess the condition of the electrical installation

Condition Report Defect Summary

Satisfactory

Code 1 (C1)	0 Danger present. Risk of injury. Immediate remedial action required
Code 2 (C2)	0 Potentially dangerous - urgent remedial action required
Code 3 (C3)	1 Improvement recommended
Further Investigation	0 Further Investigation required without delay
No Code	General Observations made by the Inspector regarding the Installation
Note	In order to attain a "Satisfactory" result there must be no C1, C2 defects or items requiring "Further Investigation"

Inspection and Test Date and Next Due Date

Test Date **23-Sep-19** Retest Period **5 years** Next due **23-Sep-24**

The "Next due" date above applies provided all C1 Defects are remedied immediately and any defects identified as requiring "Further Investigation" should also be remedied without delay. In addition, any C2 Defects are to be remedied as a matter of urgency.

Electrical Installation Condition Report compiled by

Inspection Engineer	R Urquhart	Depot	Inverness	Date	23-Sep-19
Reviewed by	Eric Bain	Signed		Date	09-Sep-20
NICEIC Reg No	000500 - 144	Phone	01698 731525	Fax	01698 731568
Position	Inspection and Test Manager				
Company	SSE Contracting				
Address	MacColl House Woodrow Eurocentral Glasgow ML1 4YQ				

Electrical Installation Condition Report Summary (continued)

Extent and Limitations

Extent:

The extent of the Installation Inspected and Tested is defined on the previous page in the "Installation Tested" section. If the Inspection and Test does not extend to the entire electrical installation at that location, the "Area Tested" defines the area(s) that have been tested. The extent of any sampling applied to the Inspection and Test can be found in the Scope of Works or Specification provided at the Quotation/Tender stage and/or as agreed with the Client and subject to the Client making the Inspector aware of all parts of the Installation to be tested.

Operational Limitations:

Any Operational Limitations imposed during the Inspection and Test, specific to parts of the Installation, will be identified in the "Observations and Recommendations for Action" Section 4 of this Condition Report.

Agreed Limitations:

All "Hazardous Area" installations (potentially explosive atmospheres) are excluded from this report. Access to the equipment above 3m has not been included in line with BS7671 unless specifically stated within the agreed Specification.

The following Agreed Limitations have been applied to the Condition Report overall:

- 1 This Inspection and Test has been carried out in accordance with BS7671 as amended. Cables concealed within Trunking and Conduits, or Cables and Conduits concealed under floors, in inaccessible roof spaces and generally within the fabric of the Building have not been inspected.

Engineers Comments

Not Applicable

This Electrical Installation Condition Report comprises the following:

- | | |
|-----------|---|
| Section 1 | Report Summary, Extent and Limitations, Guidance for Recipients |
| Section 2 | Installation Details |
| Section 3 | Schedule of Items Requiring Inspection |
| Section 4 | Observations and Recommendations for Action to be Taken |
| Section 5 | Index of Equipment Reports |
| Section 6 | 12 Equipment Reports - Circuit Details and Test Results [1] to [12] |

Note: This report must be read in its entirety and sections should not be read in isolation

Installation Details

Section 2

Occupier **NHS Highland**
 Installation Address **Glen Court, Raigmore Hospital**
 Specific Location **DB Main Section Board - Full Inst.**

Installation History

Nature of Installation	Commercial
Estimated age of the original installation	Unknown
Evidence of alterations/additions	Yes but date unknown
Date of previous inspection	Feb-2013
Previous records held by	Unknown
Previous Report Ref. Number	Unknown

Supply Characteristics

Type of Electrical System	TN-S (Cable Sheath Earth)
Number and type of live conductors	3 Phase 4 Wire (3 Phase & Neutral)
Nominal Voltage (U) and Frequency (f)	230 - 250 Volts 50 Hz
Maximum Demand	Unknown
External Earth Fault Loop Impedance (Ze)	0.18 Ohm with Bonding connected
PFC (value doubled if 3 phase)	2.90 kA (value obtained from ELI Tester)
Number of alternative supplies	Unknown
Supply 2	
Supply 3	
Polarity at Origin	Satisfactory
Phase Rotation at the Origin	Not Verified

Primary Supply Overcurrent Device(s)

BS (EN)	88
Type	GG
Nominal current rating	200 Amps
Short-circuit capacity	33 kA

Earth Electrode Details

Type	Not Applicable
Location	
Resistance	
Method of Measurement	

Main Switch or Circuit Breaker

Location	DB Sub Section
Type BS (EN)	Unknown
Number of poles	3
Supply conductor material	Copper
Supply conductor size	120 mm ²
Voltage and Current rating	45 Volts 200 Amps

Main RCD Details

RCD	Voltage	Current Rating (A)	Operating Current (mA)	x1 Test (ms)	Rated Time Delay
1		Not Applicable			
2					

Earthing and Bonding Arrangements

	Required	CSA mm ²	Material	Satisfactory	Location of Connection
Main Earthing Conductor	Yes	MEC	MEC	Yes	Supply SWA and Copper Tape
Water Service					Unable to locate

Schedule of Items Requiring Inspection

Based on BS7671 (as amended)

Section 3

Occupier **NHS Highland**
 Installation Address **Glen Court, Raigmore Hospital**
 Specific Location **DB Main Section Board - Full Inst.**

Defect Code Key

Acceptable Condition	Ü	Meets the requirements of BS7671 (as amended), no defects noted
Unacceptable Condition	Code 1 (C1)	Danger present. Risk of injury. Immediate remedial action required
Unacceptable Condition	Code 2 (C2)	Potentially dangerous - urgent remedial action required
Improvement Recommended	Code 3 (C3)	Improvement recommended
Further Investigation	Code FI (FI)	Further Investigation required without delay
Observation	(O)	Observation made by the Inspector
Not Verified	(NV)	This item has not been verified
Limitation	(L)	Limitation imposed and therefore Item has not been Inspected and or Tested.
Not Applicable	(NA)	This item is not applicable in the Installation tested

For full details of any Defects identified please refer to Section 4 of this Condition Report

Schedule of Items Requiring Inspection

Defect Code

A visual inspection will firstly be made of the external condition of all electrical equipment which is not concealed. Further detailed inspection, including partial dismantling of equipment as required, will be carried out as agreed with the person ordering the work. The Schedule of Items requiring inspection below are not exhaustive and other regulations, other than those listed may apply.

ELECTRICAL INTAKE EQUIPMENT	Ü
• Service cable	Ü
• Service head	Ü
• Distributor's earthing arrangements	Ü
• Meter tails - Distributor/Consumer	Ü
• Metering equipment	Ü
• Isolator	NA
Note: Where inadequacies in distributor's equipment are encountered, it is the responsibility of the person ordering the report to inform the appropriate authority	
PRESENCE OF ADEQUATE ARRANGEMENTS FOR PARALLEL OR SWITCHED ALTERNATIVE SOURCES	NA
• Adequate arrangements where a generating set operates as a switched alternative to the public supply	NA
• Adequate arrangements where a generating set operates in parallel with the public supply	NA
AUTOMATIC DISCONNECTION OF SUPPLY	Ü
Main earthing/bonding arrangements	Ü
1. Presence of distributor's earthing arrangement or presence of installation earth electrode arrangement	Ü
2. Adequacy of earthing conductor size	Ü
3. Adequacy of earthing conductor connections	Ü
4. Accessibility of earthing conductor connections	Ü
5. Adequacy of main protective bonding conductor sizes	Ü
6. Adequacy and location of main protective bonding conductor connections	Ü
7. Accessibility of all protective bonding connections	Ü
8. Provision of earthing/bonding labels at all appropriate locations	Ü
• FELV - requirements satisfied	NA
OTHER METHODS OF PROTECTION	NA

Schedule of Items Requiring Inspection

Section 3

Occupier **NHS Highland**
 Installation Address **Glen Court, Raigmore Hospital**
 Specific Location **DB Main Section Board - Full Inst.**

Schedule of Items Requiring Inspection	Outcome
• Non-conducting location	NA
• Earth-free local equipotential bonding	NA
• Electrical separation	NA
• Double insulation	NA
• Reinforced insulation	Ü
DISTRIBUTION EQUIPMENT	Ü
• Adequacy of working space/accessibility to equipment	Ü
• Security of fixing	Ü
• Condition of insulation of live parts	Ü
• Adequacy/security of barriers	Ü
• Condition of enclosure(s) in terms of IP rating etc	Ü
• Condition of enclosure(s) in terms of fire rating etc	Ü
• Enclosure not damaged/deteriorated so as to impair safety	Ü
• Presence and effectiveness of obstacles	Ü
• Presence of main switch(es), linked where required	Ü
• Operation of main switch(es) (functional check)	Ü
• Manual operation of circuit-breakers and RCDs to prove disconnection	Ü
• Confirmation that integral test button/switch causes RCD(s) to trip when operated (functional check)	Ü
• RCD(s) provided for fault protection - include RCBOs	NA
• RCD(s) provided for additional protection, where required - includes RCBOs	NA
• Presence of RCD six monthly test notice at or near equipment, where required	Ü
• Presence of diagrams, charts or schedules at or near equipment, where required	Ü
• Presence of non-standard (mixed) cable colour warning notice at or near equipment, where required	Ü
• Presence of alternative supply warning notice at or near equipment, where required	Ü
• Presence of next inspection recommendation label	Ü
• Presence of other required labelling	Ü
• Examination of protective device(s) and base(s); correct type and rating (no signs of unacceptable thermal damage, arcing or overheating)	Ü
• Single-pole switching or protective devices in line conductors only	Ü
• Protection against mechanical damage where cables enter equipment	Ü
• Protection against electromagnetic effects where cables enter ferromagnetic enclosure	Ü
DISTRIBUTION CIRCUITS	Ü
• Identification of conductors	Ü
• Cables correctly supported throughout their run	Ü
• Condition of insulation of live parts	Ü
• Non-sheathed cables protected by enclosure in conduit, ducting or trunking	Ü
• Suitability of containment systems for continued use (including flexible conduit)	Ü
• Cables correctly terminated in enclosures	Ü
• Confirmation that conductor connections, (refer to Extent and Limitations) including connections to busbars, are correctly located in terminals and are tight and secure	Ü
• Examination of cables for signs of unacceptable thermal or mechanical damage/deterioration	Ü
• Adequacy of cables for current-carrying capacity with regard for the type and nature of installation	Ü
• Adequacy of protective devices: type and rated current for fault protection	Ü

Schedule of Items Requiring Inspection

Section 3

Occupier **NHS Highland**
 Installation Address **Glen Court, Raigmore Hospital**
 Specific Location **DB Main Section Board - Full Inst.**

Schedule of Items Requiring Inspection		Outcome
• Presence and adequacy of circuit protective conductors		ü
• Coordination between conductors and overload protective devices		ü
• Cable installation methods/practices with regard to the type and nature of installation and external influences		ü
• Where exposed to direct sunlight, cable of a suitable type		NA
• Cables concealed under floors, above ceilings, in walls/partitions less than 50 mm from a surface, and in partitions containing metal parts		ü
1. installed in prescribed zones. (refer to Extent and Limitations)		ü
2. incorporating earthed armour or sheath, or run within earthed wiring system, or otherwise protected against mechanical damage by nails, screws and the like (refer to Extent and Limitations)		ü
• Provision of fire barriers, sealing arrangements and protection against thermal effects		ü
• Band II cables segregated/separated from Band I cables		NA
• Cables segregated/separated from non-electrical services		ü
• Condition of circuit accessories		ü
• Suitability of circuit accessories for external influences		ü
• Single-pole switching or protective devices in line conductors only		ü
• Adequacy of connections, including cpc's, within accessories and to fixed and stationary equipment (refer to Extent and Limitations and Scope of Works)		ü
• Presence, operation and correct location of appropriate devices for isolation and switching		ü
• General condition of wiring systems		ü
• Temperature rating of cable insulation		ü
FINAL CIRCUITS		ü O
• Identification of conductors		NA
• Cables correctly supported throughout their run		NA
• Condition of insulation of live parts		NA
• Non-sheathed cables protected by enclosure in conduit, ducting or trunking		NA
• Suitability of containment systems for continued use (including flexible conduit)		NA
• Adequacy of cables for current-carrying capacity with regard for the type and nature of installation		NA
• Adequacy of protective devices: type and rated current for fault protection		NA
• Presence and adequacy of circuit protective conductors		NA
• Coordination between conductors and overload protective devices		NA
• Wiring system(s) appropriate for the type and nature of the installation and external influences		NA
Cables concealed under floors, above ceilings, (refer to Extent and Limitations) in walls/partitions, adequately protected against damage		NA
1. installed in prescribed zones (refer to Extent and Limitations)		NA
2. incorporating earthed armour or sheath, or run within earthed wiring system, or otherwise protected against mechanical damage by nails, screws and the like (refer to Extent and Limitations) or		NA
Provision of additional protection by 30 mA RCD		NA
1. *for circuits used to supply mobile equipment not exceeding 32 A rating for use outdoors		NA
2. *for all socket-outlets of rating 32 A or less unless exempt		C3
3. *for cables concealed in walls at a depth of less than 50 mm		NA
4. *for cables concealed in walls/partitions containing metal parts regardless of depth *Note: Older installations designed prior to BS 7671:2008 may not have been provided with RCDs for additional protection. RCD protection required on all circuits in Domestic installations		NA
5. *for final circuits supplying luminaires within domestic (household) premises		NA

Schedule of Items Requiring Inspection

Section 3

Occupier **NHS Highland**
 Installation Address **Glen Court, Raigmore Hospital**
 Specific Location **DB Main Section Board - Full Inst.**

Schedule of Items Requiring Inspection	Outcome
• Provision of fire barriers, sealing arrangements and protection against thermal effects	NA
• Band II cables segregated/separated from Band I cables	NA
• Cables segregated/separated from non-electrical services	NA
• Termination of cables at enclosures - identify/record numbers and locations of items inspected	NA
1. Connections under no undue strain	NA
2. No basic insulation of a conductor visible outside enclosure	NA
3. Connections of live conductors adequately enclosed	NA
4. Adequately connected at point of entry to enclosure (glands, bushes etc.)	NA
• Condition of accessories including socket-outlets, switches and joint boxes	NA
• Suitability of accessories for external influences	NA
• Single-pole switching or protective devices in line conductors only	NA
ISOLATION AND SWITCHING	Ü
Isolators	Ü
1. Presence and condition of appropriate devices	Ü
2. Acceptable location	Ü
3. Capable of being secured in the OFF position	Ü
4. Correct operation verified	Ü
5. Clearly identified by position and/or durable marking	Ü
6. Warning label posted in situations where live parts cannot be isolated by the operation of a single device	Ü
Switching off for mechanical maintenance	Ü
1. Presence and condition of appropriate devices	Ü
2. Acceptable location	Ü
3. Capable of being secured in the OFF position	Ü
4. Correct operation verified	Ü
5. Clearly identified by position and/or durable marking	Ü
Emergency switching/stopping	NA
1. Presence and condition of appropriate devices	NA
2. Readily accessible for operation where danger might occur	NA
3. Correct operation verified	NA
4. Clearly identified by position and/or durable marking	NA
Functional switching	Ü
1. Presence and condition of appropriate devices	Ü
2. Correct operation verified	Ü
CURRENT-USING EQUIPMENT (PERMANENTLY CONNECTED)	Ü
• Condition of equipment in terms of IP rating etc	Ü
• Equipment does not constitute a fire hazard	Ü
• Enclosure not damaged/deteriorated so as to impair safety	Ü
• Suitability for the environment and external influences	Ü
• Security of fixing	Ü
• Cable entry holes in ceiling above luminaires, sized or sealed so as to restrict the spread of fire	Ü
• Recessed luminaires (downlighters)	NA

Occupier **NHS Highland**
 Installation Address **Glen Court, Raigmore Hospital**
 Specific Location **DB Main Section Board - Full Inst.**

Schedule of Items Requiring Inspection	Outcome
1. Correct type of lamps fitted	NA
2. Installed to minimise build-up of heat by use of "fire rated" fittings, insulation displacement box or similar	NA
3. No signs of overheating to surrounding building fabric	NA
4. No signs of overheating to conductors/terminations	NA
PART 7 SPECIAL INSTALLATIONS OR LOCATIONS	
Note: If any special installations or locations are present, the items Inspected will be based on the Requirements of Guidance Note 7 relevant to the Special Installation or Location	
Locations containing a Bath or Shower	NA
Swimming Pools and Other Basins	NA
Rooms and Cabins containing Sauna Heaters	NA
Construction and Demolition site installations	NA
Agricultural and Horticultural installations	NA
Conducting locations with restricted movement	NA
Electrical installations in Caravan/Camping Parks and similar locations	NA
Marinas and similar locations	NA
Medical locations	NA
Exhibition Shows and Stands	NA
Solar Voltaic (PV) Power Supply Systems	NA
Mobile or Transportable Units	NA
Electrical installations in Caravans and Motor Caravans	NA
Operating and Maintenance Gangways	NA
Temporary Electrical Installations – Amusement Devices, Fairgrounds, Amusements Parks & Circuses	NA
Heating Cables and Embedded Heating Systems	NA
Outdoor Lighting Installations	NA
Extra Low Voltage Lighting Installations	NA
Electric Vehicle Charging Installations	NA
Onshore Units of Electrical Shore Connections for Inland Navigation Vessels	NA

Observations and Recommendations for Action to be Taken Section 4

Occupier **NHS Highland**
 Installation Address **Glen Court, Raigmore Hospital**
 Specific Location **DB Main Section Board - Full Inst.**

Defect Code Key

Unacceptable Condition	Code 1 (C1)	Danger present. Risk of injury. Immediate remedial action required
Unacceptable Condition	Code 2 (C2)	Potentially dangerous - urgent remedial action required
Improvement Recommended	Code 3 (C3)	Improvement recommended
Further Investigation	Code FI (FI)	Further Investigation required without delay
No Code		Observation made by the Inspector
Limitation	(L)	Limitations imposed and therefore Item has not been Inspected and or Tested
Note In the "Fixed" Column "Yes" indicates SSE Contracting has corrected the Defect, "Others" indicates its been corrected by someone else. "Remains" indicates the Defect was identified on a previous EICR and still remains.		

Item	Code	Description	Fixed
[1] DB1-Flat A Linen Store Flat A			
1		Front cover on consumer unit latches broken, not exposing any parts	
[2] DB1 Flat C Linen Store			
2		Room C9 1 x Double socket surface box cracked	
[6] DB1 Flat F Linen Store			
3		Bedroom 22 - New double socket and surface box required	
[10] DB Stair Lighting & Power Electric Cupboard GF			
4	3	Socket outlets rated up to 32A are not protected by a 30mA RCD. No RCD protection on stairs socket outlets	
5	L	Unable to isolate at time of test due to sensitive equipment connected circuit 6	
[11] Ground Floor Flat DB Electric Cupboard GF			
6		MCB Rail fixed on ceramic blocks snapped and only fixed on 1 side	
[12] DB Main Section Board Ground Floor Electric Cupboard			
7		Unable to isolate DB Stair L+P due to net hub	

Index of Equipment Reports

Section 5

Occupier **NHS Highland**
 Installation Address **Glen Court, Raigmore Hospital**
 Specific Location **DB Main Section Board - Full Inst.**

Equipment Report No.	Name	Asset No.	Location	Fed from
[1]	DB1-Flat A	A13540	Linen Store Flat A	[12] DB Main Section Board
[2]	DB1 Flat C	A13542	Linen Store	[12] DB Main Section Board
[3]	DB1 Flat D	A13543	Linen Store	[12] DB Main Section Board
[4]	DB1 Flat E	A13544	Linen Store	[12] DB Main Section Board
[5]	DB1 Flat 8	A13541	Linen Store	[12] DB Main Section Board
[6]	DB1 Flat F	A13545	Linen Store	[12] DB Main Section Board
[7]	DB1 Flat G	A13546	Linen Cupboard	[12] DB Main Section Board
[8]	DB1 Flat G	A13547	Linen Store	[12] DB Main Section Board
[9]	DB Calorifier	A13551	Calorifier Room	[12] DB Main Section Board
[10]	DB Stair Lighting & Power	A13549	Electric Cupboard GF	[12] DB Main Section Board
[11]	Ground Floor Flat DB	A13548	Electric Cupboard GF	[12] DB Main Section Board
[12]	DB Main Section Board	A13550	Ground Floor Electric Cupboard	A13731 (not included in this Report)

Equipment Report

Section 6 [1]

Occupier **NHS Highland**
 Installation Address **Glen Court, Raigmore Hospital**
 Specific Location **DB Main Section Board - Full Inst.**

Supply Cables

Length Unknown
 PVC/PVC Tails 25 mm²

Internal Rating

Not IP2X

DB1-Flat A Linen Store Flat A

Hagar Distribution Board
 RCD SP&N L3 phase 14 ways
RCD Details BS (EN) 61009 100 A 30 mA 2 pole
Test Results 1x 106 ms 5x 31 ms
Test Button Pass **Asset No.** A13540

Earthing Arrangements

PFC 1.62 kA
 Earth Loop 0.38 Ohms
 PVC Singles, 16 mm²

Supplied From DB Main Section Board 3L3
Secondary Supply None

Circuit Schedule and Test Results

CIRCUIT			Cable		Overcurrent Device		Dis Time	Continuity Test			Insulation Test		Earth Loop	R.C.D. Test	
No Ø	Designation	Points Served Polarity	Wiring Phase mm ²	Method CPC mm ²	BS No Rating A	Type Rating kA	s	r1 m Ω	r2 Ω	R1+R2 R2 Ω	L/L L/E MΩ	Test Voltage AFDD Function	Max Z s Zs Ω	Rating mA Test Button	x1 x5 ms
1	Power - Cooker	1 P	S 10	B 10	60898 40	B 6	5	- -	- -	0.02 -	999 999	500 -	1.09 0.40	- -	- -
2	Lighting - Hallway, Kitchen, B60 4, Bath, Shower	13 P	S 1.5	B 1.5	60898 6	B 6	0.4	- -	- -	0.61 -	999 999	500 -	7.28 0.79	- -	- -
3	Lighting - B60 1, 2, 3, Store	11 P	S 1.5	B 1.5	60898 6	B 6	0.4	- -	- -	0.18 -	999 999	500 -	7.28 0.51	- -	- -
4	Spare	- -	- -	- -	- -	- -	-	- -	- -	- -	- -	- -	- -	- -	- -
5	Spare	- -	- -	- -	- -	- -	-	- -	- -	- -	- -	- -	- -	- -	- -
6	Spare	- -	- -	- -	- -	- -	-	- -	- -	- -	- -	- -	- -	- -	- -
7	Sockets - Bed 1, 2, 3	6 P	S 4	B 4	60898 32	B 6	5	0.21 0.18	0.12	0.33 -	999 999	500 -	1.37 0.26	- -	- -
8	Sockets - Kitchen	3 P	S 4	B 4	60898 20	B 6	5	- -	- -	0.12 -	999 999	500 -	2.19 0.24	- -	- -
9	Sockets - Corridor, Bed 4	3 P	S 4	B 4	60898 20	B 6	5	- -	- -	0.16 -	999 999	500 -	2.19 0.23	- -	- -
10	Spare	- -	- -	- -	- -	- -	-	- -	- -	- -	- -	- -	- -	- -	- -
11	Spare	- -	- -	- -	- -	- -	-	- -	- -	- -	- -	- -	- -	- -	- -
12	Spare	- -	- -	- -	- -	- -	-	- -	- -	- -	- -	- -	- -	- -	- -
13	Spare	- -	- -	- -	- -	- -	-	- -	- -	- -	- -	- -	- -	- -	- -

Equipment Report

Section 6 [1]

Occupier **NHS Highland**
 Installation Address **Glen Court, Raigmore Hospital**
 Specific Location **DB Main Section Board - Full Inst.**

Circuit Schedule and Test Results

CIRCUIT			Cable		Overcurrent Device		Dis Time	Continuity Test			Insulation Test		Earth Loop	R.C.D. Test	
No Ø	Designation	Points Served Polarity	Wiring Phase mm ²	Method CPC mm ²	BS No Rating A	Type Rating kA	s	r1 m Ω	r2 Ω	R1+R2 R2 Ω	L/L L/E MΩ	Test Voltage AFDD Function	Max Z s Zs Ω	Rating mA Test Button	x1 x5 ms
14	Spare	- -	- -	- -	- -	- -	-	- -	- -	- -	- -	- -	- -	- -	- -

Tested By	Test Date	Instrument Type	Serial No	Instrument Type	Serial No
R Urquhart	26/09/2019	MFT 15	000022538		

Equipment Report

Section 6 [2]

Occupier **NHS Highland**
 Installation Address **Glen Court, Raigmore Hospital**
 Specific Location **DB Main Section Board - Full Inst.**

Supply Cables

Length Unknown
 PVC/PVC Tails 25 mm²

Internal Rating

Not IP2X

DB1 Flat C
 Linen Store

Hagar Distribution Board
 RCD SP&N L3 phase 14 ways

RCD Details BS (EN) 61008 100 A 30 mA 2 pole

Test Results 1x 126 ms 5x 31 ms

Test Button Pass

Asset No. A13542

Earthing Arrangements

PFC 1.21 kA
 Earth Loop 0.40 Ohms
 PVC Singles, 16 mm²

Supplied From DB Main Section Board 3L3
Secondary Supply None

Circuit Schedule and Test Results

CIRCUIT			Cable		Overcurrent Device		Dis Time	Continuity Test			Insulation Test		Earth Loop	R.C.D. Test	
No Ø	Designation	Points Served Polarity	Wiring Phase mm ²	Method CPC mm ²	BS No Rating A	Type Rating kA	s	r1 m Ω	r2 Ω	R1+R2 R2 Ω	L/L L/E MΩ	Test Voltage AFDD Function	Max Z s Zs Ω	Rating mA Test Button	x1 x5 ms
1	Power - Cooker	1 P	S 10	B 10	60898 40	B 6	5	- -	- -	0.09 -	999 999	500 -	1.09 0.94	- -	- -
2	Lighting - Bed 9, 10, 11, Store	11 P	S 1.5	B 1.5	60898 6	B 6	0.4	- -	- -	0.18 -	999 999	500 -	7.28 0.46	- -	- -
3	Lighting - Hallway, Kitchen. Shower, Bath, Bed 12	13 P	S 1.5	B 1.5	60898 6	B 6	0.4	- -	- -	0.30 -	999 999	500 -	7.28 0.52	- -	- -
4	Spare	- -	- -	- -	- -	- -	-	- -	- -	- -	- -	- -	- -	- -	- -
5	Spare	- -	- -	- -	- -	- -	-	- -	- -	- -	- -	- -	- -	- -	- -
6	Spare	- -	- -	- -	- -	- -	-	- -	- -	- -	- -	- -	- -	- -	- -
7	Sockets - Bed 9, 10, 11	6 P	S 4	B 4	60898 32	B 6	5	0.15 0.14	0.03 -	0.18 -	999 999	500 -	1.37 0.17	- -	- -
8	Sockets - Hallway, Bed 12	3 P	S 4	B 4	60898 20	B 6	5	- -	- -	0.18 -	999 999	500 -	2.19 0.17	- -	- -
9	Sockets - Kitchen	3 P	S 4	B 4	60898 20	B 6	5	- -	- -	0.51 -	999 999	500 -	2.19 0.26	- -	- -
10	Spare	- -	- -	- -	- -	- -	-	- -	- -	- -	- -	- -	- -	- -	- -
11	Spare	- -	- -	- -	- -	- -	-	- -	- -	- -	- -	- -	- -	- -	- -
12	Spare	- -	- -	- -	- -	- -	-	- -	- -	- -	- -	- -	- -	- -	- -
13	Spare	- -	- -	- -	- -	- -	-	- -	- -	- -	- -	- -	- -	- -	- -

Equipment Report

Section 6 [2]

Occupier **NHS Highland**
 Installation Address **Glen Court, Raigmore Hospital**
 Specific Location **DB Main Section Board - Full Inst.**

Circuit Schedule and Test Results

CIRCUIT			Cable		Overcurrent Device		Dis Time	Continuity Test			Insulation Test		Earth Loop	R.C.D. Test	
No Ø	Designation	Points Served Polarity	Wiring Phase mm ²	Method CPC mm ²	BS No Rating A	Type Rating kA	s	r1 m Ω	r2 Ω	R1+R2 R2 Ω	L/L L/E MΩ	Test Voltage AFDD Function	Max Z s Zs Ω	Rating mA Test Button	x1 x5 ms
14	Spare	- -	- -	- -	- -	- -	-	- -	-	- -	- -	- -	- -	- -	- -

Tested By	Test Date	Instrument Type	Serial No	Instrument Type	Serial No
R Urquhart	26/09/2019	MFT 15	000022538		

Equipment Report

Section 6 [3]

Occupier **NHS Highland**
 Installation Address **Glen Court, Raigmore Hospital**
 Specific Location **DB Main Section Board - Full Inst.**

Supply Cables

Length Unknown
 PVC/PVC Tails 25 mm²

Internal Rating

Not IP2X

DB1 Flat D
 Linen Store

Hager Distribution Board
 RCD SP&N L2 phase 14 ways

RCD Details BS (EN) 61009 100 A 30 mA 2 pole

Test Results 1x 119 ms 5x 31 ms

Test Button Pass

Asset No. A13543

Earthing Arrangements

PFC 1.71 kA
 Earth Loop 0.38 Ohms
 PVC Singles, 16 mm²

Supplied From DB Main Section Board 3L2
Secondary Supply None

Circuit Schedule and Test Results

CIRCUIT			Cable		Overcurrent Device		Dis Time	Continuity Test			Insulation Test		Earth Loop	R.C.D. Test	
No Ø	Designation	Points Served Polarity	Wiring Phase mm ²	Method CPC mm ²	BS No Rating A	Type Rating kA	s	r1 m Ω	r2 Ω	R1+R2 R2 Ω	L/L L/E MΩ	Test Voltage AFDD Function	Max Z s Zs Ω	Rating mA Test Button	x1 x5 ms
1	Power - Cooker	1 P	S 10	B 10	60898 40	B 6	5	- -	- -	0.04 -	999 999	500 -	1.09 0.43	- -	- -
2	Lighting - Bed 13, 14, 15, Store	11 P	S 1.5	B 1.5	60898 6	B 6	0.4	- -	- -	0.17 -	999 999	500 -	7.28 0.60	- -	- -
3	Lighting - Hallway, Kitchen. Shower, Bath, Bed 16	13 P	S 1.5	B 1.5	60898 6	B 6	0.4	- -	- -	0.26 -	999 999	500 -	7.28 0.63	- -	- -
4	Spare	- -	- -	- -	- -	- -	-	- -	- -	- -	- -	- -	- -	- -	- -
5	Spare	- -	- -	- -	- -	- -	-	- -	- -	- -	- -	- -	- -	- -	- -
6	Spare	- -	- -	- -	- -	- -	-	- -	- -	- -	- -	- -	- -	- -	- -
7	Sockets - Hallway, Bed 16	3 P	S 4	B 4	60898 20	B 6	5	- -	- -	0.20 -	999 999	500 -	2.19 0.19	- -	- -
8	Sockets - Kitchen	3 P	S 4	B 4	60898 20	B 6	5	- -	- -	0.29 -	999 999	500 -	2.19 0.27	- -	- -
9	Sockets - Bed 13, 14, 15	6 P	S 4	B 4	60898 32	B 6	5	0.36 0.33	0.21 -	0.57 -	999 999	500 -	1.37 0.19	- -	- -
10	Spare	- -	- -	- -	- -	- -	-	- -	- -	- -	- -	- -	- -	- -	- -
11	Spare	- -	- -	- -	- -	- -	-	- -	- -	- -	- -	- -	- -	- -	- -
12	Spare	- -	- -	- -	- -	- -	-	- -	- -	- -	- -	- -	- -	- -	- -
13	Spare	- -	- -	- -	- -	- -	-	- -	- -	- -	- -	- -	- -	- -	- -

Occupier **NHS Highland**
 Installation Address **Glen Court, Raigmore Hospital**
 Specific Location **DB Main Section Board - Full Inst.**

Circuit Schedule and Test Results

CIRCUIT			Cable		Overcurrent Device		Dis Time	Continuity Test			Insulation Test		Earth Loop	R.C.D. Test	
No Ø	Designation	Points Served Polarity	Wiring Phase mm ²	Method CPC mm ²	BS No Rating A	Type Rating kA		r1 m Ω	r2 Ω	R1+R2 R2 Ω	L/L L/E MΩ	Test Voltage AFDD Function	Max Z s Zs Ω	Rating mA Test Button	x1 x5 ms
14	Spare	- -	- -	- -	- -	- -	-	- -	-	- -	- -	- -	- -	- -	- -

Tested By	Test Date	Instrument Type	Serial No	Instrument Type	Serial No
R Urquhart	26/09/2019	MFT 15	000022538		

Equipment Report

Section 6 [4]

Occupier **NHS Highland**
 Installation Address **Glen Court, Raigmore Hospital**
 Specific Location **DB Main Section Board - Full Inst.**

Supply Cables

Length Unknown
 PVC/PVC Tails 25 mm²

Internal Rating

Not IP2X

DB1 Flat E
 Linen Store

Hager Distribution Board
 RCD SP&N L1 phase 14 ways

RCD Details BS (EN) 61009 100 A 30 mA 2 pole

Test Results 1x 118 ms 5x 31 ms

Test Button Pass

Asset No. A13544

Earthing Arrangements

PFC 0.85 kA
 Earth Loop 0.35 Ohms
 PVC Singles, 16 mm²

Supplied From DB Main Section Board 3L1
Secondary Supply None

Circuit Schedule and Test Results

CIRCUIT			Cable		Overcurrent Device		Dis Time	Continuity Test			Insulation Test		Earth Loop	R.C.D. Test	
No	Designation	Points Served	Wiring Phase	Method CPC	BS No Rating	Type Rating		r1	r2	R1+R2	L/L	Test Voltage	Max Z s	Rating	x1
Ø		Polarity	mm ²	mm ²	A	kA	s	m Ω	Ω	Ω	L/E MΩ	AFDD Function	Zs Ω	mA Test Button	x5 ms
1	Power - Cooker	1 P	S 10	B 10	60898 40	B 6	5	-	-	0.23	999	500	1.09	-	-
								-	-	-	999	-	0.80	-	-
2	Lighting - Hallway, Kitchen, Shower, Bath, Bed 20	11 P	S 1.5	B 1.5	60898 6	B 6	0.4	-	-	0.27	999	500	7.28	-	-
								-	-	-	999	-	0.52	-	-
3	Lighting - Bed 17, 18, 19, Store	13 P	S 1.5	B 1.5	60898 6	B 6	0.4	-	-	0.21	999	500	7.28	-	-
								-	-	-	999	-	0.73	-	-
4	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Sockets - Bed 17, 18, 19	6 P	S 4	B 4	60898 32	B 6	5	0.29	0.12	0.41	999	500	1.37	-	-
								0.25	-	-	999	-	0.31	-	-
8	Sockets - Kitchen	3 P	S 4	B 4	60898 20	B 6	5	-	-	0.25	999	500	2.19	-	-
								-	-	-	999	-	0.49	-	-
9	Sockets - Bed 20, Hallway	3 P	S 4	B 4	60898 20	B 6	5	-	-	0.24	999	500	2.19	-	-
								-	-	-	999	-	0.38	-	-
10	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-

Equipment Report

Section 6 [4]

Occupier **NHS Highland**
 Installation Address **Glen Court, Raigmore Hospital**
 Specific Location **DB Main Section Board - Full Inst.**

Circuit Schedule and Test Results

CIRCUIT			Cable		Overcurrent Device		Dis Time	Continuity Test			Insulation Test		Earth Loop	R.C.D. Test	
No Ø	Designation	Points Served Polarity	Wiring Phase mm ²	Method CPC mm ²	BS No Rating A	Type Rating kA	s	r1 m Ω	r2 Ω	R1+R2 R2 Ω	L/L L/E MΩ	Test Voltage AFDD Function	Max Z s Zs Ω	Rating mA Test Button	x1 x5 ms
14	Spare	- -	- -	- -	- -	- -	-	- -	-	- -	- -	- -	- -	- -	- -

Tested By	Test Date	Instrument Type	Serial No	Instrument Type	Serial No
R Urquhart	25/09/2019	MFT 15	000022538		

Equipment Report

Section 6 [5]

Occupier **NHS Highland**
 Installation Address **Glen Court, Raigmore Hospital**
 Specific Location **DB Main Section Board - Full Inst.**

Supply Cables

Length Unknown
 PVC/PVC Tails 25 mm²

Internal Rating

Not IP2X

DB1 Flat 8
 Linen Store

Hager Distribution Board
 RCD SP&N L2 phase 14 ways

RCD Details BS (EN) 61009 100 A 30 mA 2 pole

Test Results 1x 107 ms 5x 32 ms

Test Button Pass

Asset No. A13541

Earthing Arrangements

PFC 1.60 kA
 Earth Loop 0.40 Ohms
 PVC Singles, 16 mm²

Supplied From DB Main Section Board 3L2
Secondary Supply None

Circuit Schedule and Test Results

CIRCUIT			Cable		Overcurrent Device		Dis Time	Continuity Test			Insulation Test		Earth Loop	R.C.D. Test	
No	Designation	Points Served	Wiring Phase	Method CPC	BS No Rating	Type Rating		r1	r2	R1+R2	L/L	Test Voltage	Max Z s	Rating	x1
Ø		Polarity	mm ²	mm ²	A	kA	s	m Ω	Ω	Ω	L/E MΩ	AFDD Function	Zs Ω	mA Test Button	x5 ms
1	Power - Cooker	1 P	S 10	B 10	60898 40	B 6	5	-	-	0.24	999	500	1.09	-	-
								-	-	-	999	-	0.59	-	-
2	Lighting - Hallway, Kitchen, Shower, Bath, Bed 8	11 P	S 1.5	B 1.5	60898 6	B 6	0.4	-	-	0.23	999	500	7.28	-	-
								-	-	-	999	-	0.51	-	-
3	Lighting - Bed 5, 6, 7, Bell, Store	13 P	S 1.5	B 1.5	60898 6	B 6	0.4	-	-	0.26	999	500	7.28	-	-
								-	-	-	999	-	0.59	-	-
4	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Sockets - Bed 5, 6, 7	6 P	SC 4	B 4	60898 32	B 6	5	0.20	0.06	0.26	999	500	1.37	-	-
								0.17	-	-	999	-	0.17	-	-
8	Sockets - Kitchen	3 P	SC 4	B 4	60898 20	B 6	5	-	-	0.11	999	500	2.19	-	-
								-	-	-	999	-	0.28	-	-
9	Sockets - Bed 8, Hallway	3 P	SC 4	B 4	60898 20	B 6	5	-	-	0.08	999	500	2.19	-	-
								-	-	-	999	-	0.22	-	-
10	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-

Occupier **NHS Highland**
 Installation Address **Glen Court, Raigmore Hospital**
 Specific Location **DB Main Section Board - Full Inst.**

Circuit Schedule and Test Results

CIRCUIT			Cable		Overcurrent Device		Dis Time	Continuity Test			Insulation Test		Earth Loop	R.C.D. Test	
No Ø	Designation	Points Served Polarity	Wiring Phase mm ²	Method CPC mm ²	BS No Rating A	Type Rating kA	s	r1 m Ω	r2 Ω	R1+R2 R2 Ω	L/L L/E MΩ	Test Voltage AFDD Function	Max Z s Zs Ω	Rating mA Test Button	x1 x5 ms
14	Spare	- -	- -	- -	- -	- -	-	- -	- -	- -	- -	- -	- -	- -	- -

Tested By	Test Date	Instrument Type	Serial No	Instrument Type	Serial No
R Urquhart	25/09/2019	MFT 15	000022538		

Equipment Report

Section 6 [6]

Occupier **NHS Highland**
 Installation Address **Glen Court, Raigmore Hospital**
 Specific Location **DB Main Section Board - Full Inst.**

Supply Cables

Length Unknown
 PVC/PVC Tails 25 mm²

Internal Rating

Not IP2X

DB1 Flat F
 Linen Store

Hager Distribution Board
 RCD SP&N L3 phase 14 ways

RCD Details BS (EN) 61009 100 A 30 mA 2 pole

Test Results 1x 96 ms 5x 31 ms

Test Button Pass

Asset No. A13545

Earthing Arrangements

PFC 1.39 kA
 Earth Loop 0.38 Ohms
 PVC Singles, 16 mm²

Supplied From DB Main Section Board 3L3
Secondary Supply None

Circuit Schedule and Test Results

CIRCUIT			Cable		Overcurrent Device		Dis Time	Continuity Test			Insulation Test		Earth Loop	R.C.D. Test	
No Ø	Designation	Points Served Polarity	Wiring Phase mm ²	Method CPC mm ²	BS No Rating A	Type Rating kA	s	r1 m Ω	r2 Ω	R1+R2 R2 Ω	L/L L/E MΩ	Test Voltage AFDD Function	Max Z s Zs Ω	Rating mA Test Button	x1 x5 ms
1	Power - Cooker	1 P	S 10	B 10	60898 40	B 6	5	- -	- -	0.08 -	999 999	500 -	1.09 0.72	- -	- -
2	Lighting - Bed 21, 22, 23, Store	12 P	S 1.5	B 1.5	60898 6	B 6	0.4	- -	- -	0.20 -	999 999	500 -	7.28 0.59	- -	- -
3	Lighting - Kitchen, Bed 24, Bath, Shower	13 P	S 1.5	B 1.5	60898 6	B 6	0.4	- -	- -	0.26 -	999 999	500 -	7.28 0.48	- -	- -
4	Spare	- -	- -	- -	- -	- -	-	- -	- -	- -	- -	- -	- -	- -	- -
5	Spare	- -	- -	- -	- -	- -	-	- -	- -	- -	- -	- -	- -	- -	- -
6	Spare	- -	- -	- -	- -	- -	-	- -	- -	- -	- -	- -	- -	- -	- -
7	Sockets - Kitchen	3 P	SC 4	B 4	60898 20	B 6	5	- -	- -	0.12 -	999 999	500 -	2.19 0.29	- -	- -
8	Sockets - Hallway, Bed 24	3 P	SC 4	B 4	60898 20	B 6	5	- -	- -	0.05 -	999 999	500 -	2.19 0.12	- -	- -
9	Sockets - Bed 21, 22, 23	6 P	SC 4	B 4	60898 32	B 6	5	0.23 0.18	0.02 -	0.25 -	999 999	500 -	1.37 0.22	- -	- -
10	Spare	- -	- -	- -	- -	- -	-	- -	- -	- -	- -	- -	- -	- -	- -
11	Spare	- -	- -	- -	- -	- -	-	- -	- -	- -	- -	- -	- -	- -	- -
12	Spare	- -	- -	- -	- -	- -	-	- -	- -	- -	- -	- -	- -	- -	- -
13	Spare	- -	- -	- -	- -	- -	-	- -	- -	- -	- -	- -	- -	- -	- -

Equipment Report

Section 6 [6]

Occupier **NHS Highland**
 Installation Address **Glen Court, Raigmore Hospital**
 Specific Location **DB Main Section Board - Full Inst.**

Circuit Schedule and Test Results

CIRCUIT			Cable		Overcurrent Device		Dis Time	Continuity Test			Insulation Test		Earth Loop	R.C.D. Test	
No	Designation	Points Served	Wiring Phase	Method CPC	BS No Rating	Type Rating		r1	r2	R1+R2	L/L L/E	Test Voltage AFDD Function	Max Z s Zs	Rating mA	x1 x5
Ø		Polarity	mm ²	mm ²	A	kA	s	Ω	Ω	Ω	MΩ		Ω	Test Button	ms
14	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By	Test Date	Instrument Type	Serial No	Instrument Type	Serial No
R Urquhart	25/09/2019	MFT 15	000022538		

Equipment Report

Section 6 [7]

Occupier **NHS Highland**
 Installation Address **Glen Court, Raigmore Hospital**
 Specific Location **DB Main Section Board - Full Inst.**

Supply Cables

Length Unknown
 PVC/PVC Tails 25 mm²

Internal Rating

Not IP2X

DB1 Flat G Linen Cupboard

Hager Distribution Board
 RCD SP&N L2 phase 14 ways
RCD Details BS (EN) 61009 100 A 30 mA 2 pole
Test Results 1x 115 ms 5x 31 ms
Test Button Pass **Asset No.** A13546

Earthing Arrangements

PFC 1.46 kA
 Earth Loop 0.37 Ohms
 PVC Singles, 16 mm²

Supplied From DB Main Section Board 3L2
Secondary Supply None

Circuit Schedule and Test Results

CIRCUIT			Cable		Overcurrent Device		Dis Time	Continuity Test			Insulation Test		Earth Loop	R.C.D. Test	
No	Designation	Points Served	Wiring Phase	Method CPC	BS No Rating	Type Rating	s	r1 m	r2	R1+R2 R2	L/L L/E	Test Voltage AFDD Function	Max Z s Zs	Rating mA	x1 x5
Ø		Polarity	mm ²	mm ²	A	kA		Ω	Ω	Ω	MΩ		Ω	Test Button	ms
1	Power - Cooker	1 P	S 10	B 10	60898 40	B 6	5	- -	-	0.05 -	999 999	500 -	1.09 0.65	- -	- -
2	Lighting - Hallway, Bed 28, WC, Shower	11 P	S 1.5	B 1.5	60898 6	B 6	0.4	- -	-	0.12 -	999 999	500 -	7.28 0.54	- -	- -
3	Lighting - Bed 25, 26, 27, Store	11 P	S 1.5	B 1.5	60898 6	B 6	0.4	- -	-	0.19 -	999 999	500 -	7.28 0.47	- -	- -
4	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Sockets - Kitchen	3 P	SC 4	B 4	60898 20	B 6	5	- -	-	0.20 -	999 999	500 -	2.19 0.30	- -	- -
8	Sockets - Hallway, Bed 28	3 P	SC 4	B 4	60898 20	B 6	5	- -	-	0.06 -	999 999	500 -	2.19 0.25	- -	- -
9	Sockets - Bed 25, 26, 27	6 P	SC 4	B 4	60898 32	B 6	5	0.24 0.24	0.09	0.33 -	999 999	500 -	1.37 0.19	- -	- -
10	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Equipment Report

Section 6 [7]

Occupier **NHS Highland**
 Installation Address **Glen Court, Raigmore Hospital**
 Specific Location **DB Main Section Board - Full Inst.**

Circuit Schedule and Test Results

CIRCUIT			Cable		Overcurrent Device		Dis Time	Continuity Test			Insulation Test		Earth Loop	R.C.D. Test	
No	Designation	Points Served	Wiring Phase	Method CPC	BS No Rating	Type Rating		r1	r2	R1+R2	L/L L/E	Test Voltage AFDD Function	Max Z s Zs	Rating mA	x1 x5
Ø		Polarity	mm ²	mm ²	A	kA	s	Ω	Ω	Ω	MΩ		Ω	Test Button	ms
14	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By		Test Date	Instrument Type		Serial No	Instrument Type		Serial No
R Urquhart		24/09/2019	MFT 15		000022538			

Equipment Report

Section 6 [8]

Occupier **NHS Highland**
 Installation Address **Glen Court, Raigmore Hospital**
 Specific Location **DB Main Section Board - Full Inst.**

Supply Cables

Length Unknown
 PVC/PVC Tails 25 mm²

Internal Rating

Not IP2X

DB1 Flat G
 Linen Store

Hager Distribution Board
 RCD SP&N L1 phase 14 ways
RCD Details BS (EN) 61009 100 A 30 mA 2 pole
Test Results 1x 129 ms 5x 32 ms
Test Button Pass **Asset No.** A13547

Earthing Arrangements

PFC 1.60 kA
 Earth Loop 0.30 Ohms
 PVC Singles, 16 mm²

Supplied From DB Main Section Board 3L1
Secondary Supply None

Circuit Schedule and Test Results

CIRCUIT			Cable		Overcurrent Device		Dis Time	Continuity Test			Insulation Test		Earth Loop	R.C.D. Test	
No	Designation	Points Served	Wiring Phase	Method CPC	BS No Rating	Type Rating	s	r1 m	r2	R1+R2 R2	L/L L/E	Test Voltage AFDD Function	Max Z s Zs	Rating mA	x1 x5
Ø		Polarity	mm ²	mm ²	A	kA		Ω	Ω	Ω	MΩ		Ω	Test Button	ms
1	Power - Cooker	1 P	S 10	B 10	60898 40	B 6	5	- -	-	0.03 -	999 999	500 -	1.09 0.57	- -	- -
2	Lighting - Hallway, Bed 32, WC, Shower	11 P	S 1.5	B 1.5	60898 6	B 6	0.4	- -	-	0.21 -	999 999	500 -	7.28 0.44	- -	- -
3	Lighting - Bed 29, 30, 21, Store	11 P	S 1.5	B 1.5	60898 6	B 6	0.4	- -	-	0.12 -	999 999	500 -	7.28 0.44	- -	- -
4	Spare	-	-	-	-	-	-	- -	-	- -	- -	- -	- -	- -	- -
5	Spare	-	-	-	-	-	-	- -	-	- -	- -	- -	- -	- -	- -
6	Spare	-	-	-	-	-	-	- -	-	- -	- -	- -	- -	- -	- -
7	Sockets - Kitchen	3 P	SC 4	B 4	60898 20	B 6	5	- -	-	0.26 -	999 999	500 -	2.19 0.24	- -	- -
8	Sockets - Hallway, Bed 32	3 P	SC 4	B 4	60898 20	B 6	5	- -	-	0.15 -	999 999	500 -	2.19 0.16	- -	- -
9	Sockets - Bed 259, 30, 31	6 P	SC 4	B 4	60898 32	B 6	5	0.39 0.18 0.36	0.18	0.57 -	999 999	500 -	1.37 0.14	- -	- -
10	Spare	-	-	-	-	-	-	- -	-	- -	- -	- -	- -	- -	- -
11	Spare	-	-	-	-	-	-	- -	-	- -	- -	- -	- -	- -	- -
12	Spare	-	-	-	-	-	-	- -	-	- -	- -	- -	- -	- -	- -
13	Spare	-	-	-	-	-	-	- -	-	- -	- -	- -	- -	- -	- -

Occupier **NHS Highland**
 Installation Address **Glen Court, Raigmore Hospital**
 Specific Location **DB Main Section Board - Full Inst.**

Circuit Schedule and Test Results

CIRCUIT			Cable		Overcurrent Device		Dis Time	Continuity Test			Insulation Test		Earth Loop	R.C.D. Test	
No Ø	Designation	Points Served Polarity	Wiring Phase mm ²	Method CPC mm ²	BS No Rating A	Type Rating kA	s	r1 m Ω	r2 Ω	R1+R2 R2 Ω	L/L L/E MΩ	Test Voltage AFDD Function	Max Z s Zs Ω	Rating mA Test Button	x1 x5 ms
14	Spare	- -	- -	- -	- -	- -	-	- -	-	- -	- -	- -	- -	- -	- -

Tested By	Test Date	Instrument Type	Serial No	Instrument Type	Serial No
R Urquhart	24/09/2019	MFT 15	000022538		

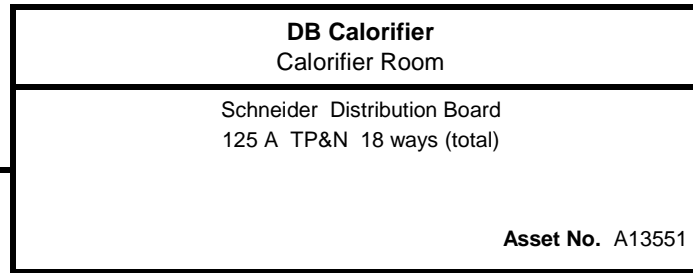
Equipment Report

Section 6 [9]

Occupier **NHS Highland**
 Installation Address **Glen Court, Raigmore Hospital**
 Specific Location **DB Main Section Board - Full Inst.**

Supply Cables
 Length Unknown
 SWA

Internal Rating
 Not IP2X



Earthing Arrangements
 PFC 2.52 kA
 Earth Loop 0.27 Ohms
 Cable Sheath

Supplied From DB Main Section Board 1L123
Secondary Supply None

Circuit Schedule and Test Results

CIRCUIT			Cable		Overcurrent Device		Dis Time	Continuity Test			Insulation Test		Earth Loop	R.C.D. Test	
No	Designation	Points Served	Wiring Phase	Method CPC	BS No Rating	Type Rating	s	r1 m	r2	R1+R2 R2	L/L L/E	Test Voltage AFDD Function	Max Z s Zs	Rating mA Test Button	x1 x5 ms
1	Power - Heating Control Panel	1	SC	B	60898	C	0.4	-	-	0.04	999	500	0.68	-	-
L123		P	6	6	32	10		-	-	-	999	-	0.35	-	-
2	Power - Immersion	1	SWA	B	60898	B	0.4	-	-	0.25	999	500	1.37	-	-
L1		P	6	6	32	10		-	-	-	999	-	0.28	-	-
2	Power - Heat Meter	1	FLEX	B	60898	C	0.4	-	-	0.29	999	500	2.14	-	-
L2		P	2.5	2.5	10	10		-	-	-	999	-	0.37	-	-
2	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L3		-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L123		-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L123		-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L123		-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L123		-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By	Test Date	Instrument Type	Serial No	Instrument Type	Serial No
R Urquhart	24/09/2019	MFT 15			

Equipment Report

Section 6 [10]

Occupier **NHS Highland**
 Installation Address **Glen Court, Raigmore Hospital**
 Specific Location **DB Main Section Board - Full Inst.**

Supply Cables

Length 1 metre
 PVC Singles 35 mm²

Internal Rating

Not IP2X

DB Stair Lighting & Power

Electric Cupboard GF

Dorman Smith Distribution Board
 60 A SP&N L2 phase 8 ways

Asset No. A13549

Earthing Arrangements

PFC 1.07 kA
 Earth Loop 0.40 Ohms
 Trunking/Conduit

Supplied From DB Main Section Board 2L2
 Secondary Supply None

Circuit Schedule and Test Results

CIRCUIT			Cable		Overcurrent Device		Dis Time	Continuity Test			Insulation Test		Earth Loop	R.C.D. Test	
No	Designation	Points Served	Wiring Phase	Method CPC	BS No Rating	Type Rating		r1	r2	R1+R2	L/L	Test Voltage	Max Z s	Rating	x1
Ø		Polarity	mm ²	mm ²	A	kA	s	Ω	Ω	Ω	MΩ	AFDD Function	Zs Ω	mA Test Button	x5 ms
1	Spare	-	-	-	3871	3	0.4	-	-	-	-	-	0.57	-	-
		-	-	-	30	3		-	-	-	-	-	-	-	-
2	Power - Tank Room Power	3	SC	B	3871	3	0.4	-	-	0.45	999	500	0.57	-	-
		P	4	MEC	30	3		-	-	-	999	-	0.39	-	-
3	Power - Stairwell	3	SC	B	3871	3	0.4	-	-	0.36	999	500	0.57	-	-
		P	4	4	30	3		-	-	-	999	-	0.33	-	-
4	Power - Fire Alarm Panel	1	FP200	C	3871	3	0.4	-	-	0.45	999	500	1.74	-	-
		P	1.5	1.5	10	3		-	-	-	999	-	0.53	-	-
5	Lighting - Tank Room	2	SC	B	3871	3	0.4	-	-	0.57	999	500	1.74	-	-
		P	1.5	MEC	10	3		-	-	-	999	-	0.66	-	-
6	Power - WiFi Spur	1	FP200	C	3871	3	0.4	-	-	L	L	L	1.74	-	-
		L	2.5	1.5	10	3		-	-	-	L	-	L	-	-
7	Lighting - Stairs, Porch	10	SC	B	3871	3	0.4	-	-	0.47	999	500	1.16	-	-
		P	2.5	MEC	15	3		-	-	-	999	-	0.50	-	-
8	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By	Test Date	Instrument Type	Serial No	Instrument Type	Serial No
R Urquhart	23/09/2019	MFT 15	000022538		

Equipment Report

Section 6 [11]

Occupier **NHS Highland**
 Installation Address **Glen Court, Raigmore Hospital**
 Specific Location **DB Main Section Board - Full Inst.**

Supply Cables

Length 1 metre
 PVC Singles 35 mm²

Internal Rating

Not IP2X

Ground Floor Flat DB Electric Cupboard GF

Dorman Smith Distribution Board
 60 A SP&N L1 phase 8 ways

Asset No. A13548

Earthing Arrangements

PFC 1.14 kA
 Earth Loop 0.19 Ohms
 Trunking/Conduit

Supplied From DB Main Section Board 2L1
 Secondary Supply None

Circuit Schedule and Test Results

CIRCUIT			Cable		Overcurrent Device		Dis Time	Continuity Test			Insulation Test		Earth Loop	R.C.D. Test	
No	Designation	Points Served	Wiring Phase	Method CPC	BS No Rating	Type Rating		r1	r2	R1+R2	L/L L/E	Test Voltage AFDD Function	Max Z s Zs	Rating mA Test Button	x1 x5 ms
1	Power Cooker	1 P	SC 10	B 10	3871 30	4 3	0.4	-	-	0.61	999 999	500 -	2.00 0.63	-	-
2	Sockets - Laundry	4 P	SC 4	B 4	3871 30	4 3	0.4	-	-	0.03	999 999	500 -	0.66 0.29	-	-
3	Sockets - Common Room	6 P	SC 4	B 4	3871 30	4 3	0.4	-	-	0.07	999 999	500 -	0.66 0.25	-	-
4	Sockets - Hall/Store, DSR	7 P	SC 4	B 4	3871 30	4 3	0.4	-	-	0.27	999 999	500 -	0.66 0.24	-	-
5	Lighting - DSR, Ladies WC, Store, Cupboard	11 P	SC 1.5	B 1.5	3871 10	4 3	0.4	-	-	0.79	999 999	500 -	4.29 0.66	-	-
6	Lighting - Hall, Male WC, Bell, Laundry	9 P	SC 1.5	B 1.5	3871 10	4 3	0.4	-	-	0.57	999 999	500 -	4.29 0.50	-	-
7	Power - Washing Machine	2 P	MICC 2.5	B 2.5	3871 30	4 3	0.4	-	-	0.37	999 999	500 -	2.00 0.33	-	-
8	Power - Tumble Dryer	2 P	MICC 1.5	B 1.5	3871 30	4 3	0.4	-	-	0.38	999 999	500 -	2.00 0.31	-	-

Tested By	Test Date	Instrument Type	Serial No	Instrument Type	Serial No
R Urquhart	23/09/2019	MFT 15	000022538		

Equipment Report

Section 6 [12]

Occupier **NHS Highland**
 Installation Address **Glen Court, Raigmore Hospital**
 Specific Location **DB Main Section Board - Full Inst.**

Supply Cables

Length Unknown
 SWA 120 mm²

Internal Rating

Not IP2X

DB Main Section Board	
Ground Floor Electric Cupboard	
Dorman Smith 3 Way Distribution Board 200 A TP&N 9 ways (total)	
Asset No. A13550	

Earthing Arrangements

PFC 2.90 kA
 Earth Loop 0.18 Ohms
 Cable Sheath
 Bare Copper

Supplied From A13731 (not included in this Report)
 Secondary Supply None

Circuit Schedule and Test Results

CIRCUIT			Cable		Overcurrent Device		Dis Time	Continuity Test			Insulation Test		Earth Loop	R.C.D. Test	
No	Designation	Points Served	Wiring Phase	Method CPC	BS No Rating	Type Rating	s	r1 m	r2	R1+R2 R2	L/L L/E	Test Voltage AFDD Function	Max Z s Zs	Rating mA Test Button	x1 x5 ms
0		-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	Power - Calorifier	1	SWA	C	60947-2	-	5	-	-	0.27	999	500	-	-	-
L123		P	10	SWA	60	25		-	-	-	999	-	0.26	-	-
2	Power - Sub Mains DB GFF	1	SC	B	60947-2	-	5	-	-	0.27	999	500	-	-	-
L1		P	35	MCC	60	25		-	-	-	999	-	0.31	-	-
2	Power - Sub Mains DB Stair L+P	1	SC	B	60947-2	-	5	-	-	L	L	L	-	-	-
L2		P	35	MCC	60	25		-	-	-	L	-	0.37	-	-
2	Spare	-	-	-	60947-2	-	5	-	-	-	-	-	-	-	-
L3		-	-	-	60	25		-	-	-	-	-	-	-	-
3	Power - Sub Mains DB E & DB H	2	SWA	C	60947-2	-	5	-	-	0.21	999	500	-	-	-
L1		P	35	35	125	25		-	-	-	999	-	0.31	-	-
3	Power - Sub Mains DB B & DB G	3	SWA	C	60947-2	-	5	-	-	0.21	999	500	-	-	-
L2		P	35	35	125	25		-	-	-	999	-	0.48	-	-
3	Power - Sub Mains DB A, DB C, DB F	3	SWA	C	60947-2	-	5	-	-	0.24	999	500	-	-	-
L3		P	35	35	125	25		-	-	-	999	-	0.27	-	-

Tested By	Test Date	Instrument Type	Serial No	Instrument Type	Serial No
R Urquhart	23/09/2019	MFT 15	000022538		

Report Abbreviations

Occupier **NHS Highland**
 Installation Address **Glen Court, Raigmore Hospital**
 Specific Location **DB Main Section Board - Full Inst.**

Abbreviation	Meaning	Abbreviation	Meaning
-	The item has been considered but is not applicable	ADS	Automatic Disconnection of Supply
AFDD	Arc Fault Detection Device	BBC	Busbar Chamber
BS3036	Rewirable Fusible Link	BS3871	Miniature Circuit Breaker
BS88/BS1361	General Purpose Cartridge Fuses	BSEN60898	Miniature Circuit Breaker
BSEN60947-2	Moulded Case Circuit Breaker	BSEN61009	Combined MCB/RCD
C	Continuity Confirmed by Earth Loop Impedance Tester	C/W	Copper Wire
CON	Concentric	CPC	Circuit Protective Conductor
CS	Cable Sheath	DB	Distribution Board
EEBADS	Earthed Equipotential Bonding and Automatic Disconnection of Supply	F	Fail
FELV	Functional extra low voltage	FP200	Fire Retardant Cable
INA	Information Not Available	IP2X	Protection against approach by fingers
ISO	Isolator Switch	L or LIM	Limitation of Test
LS	Lead Sheathed Cable	MCB	Miniature Circuit Breaker BS3871, BSEN60898
MCCB	Moulded Case Circuit Breaker	Method	Refer to BS7671 Appendix 4 Table 4A2 for full list of Reference Methods
MF	Metal Conduit/Trunking System Provides main C.P.C.	MI/MICC	Mineral Insulated Copper Conductor Cables
NA	Not Applicable	P	Pass
PELV	Protective extra low voltage	PFC	Prospective Fault Current
PILSWA	Paper Insulated Lead Steel Wire Armour	PVC/PVC	PVC Insulated PVC Sheathed Singles (tails)
RCBO	Residual Current Breaker with Overcurrent Protection	RCCB	Residual Current Circuit Breaker
RCD	Residual Current Device	S	PVC Insulated Single Cable
SELV	Separated extra low voltage	SL	Solid Link
SP+N	Single Pole and Neutral	SPD	Surge Protection Device
SWA	Steel Wire Armoured Cable	SWF	Switched Fuse
T	PVC Insulated Twin Cable	T+E	PVC Insulated Twin and Earth Cable
TP+N	Triple Pole and Neutral	TRS	Tough Rubber Sheathed Cable
U	Unknown	V/VIR	Vulcanised Indian Rubber Insulated Cable (singles)
VOCB	Voltage Operated Circuit Breaker		

Guidance for Recipients

Occupier **NHS Highland**
Installation Address **Glen Court, Raigmore Hospital**
Specific Location **DB Main Section Board - Full Inst.**

1. This Condition Report is based on BS7671:2018 and Guidance Note 3, Inspection and Testing. 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 as identified in the Report Summary. The Report identifies any damage, deterioration, defects and/or conditions which may give rise to danger in Section 4, "Observations and Recommendations for Action to be taken".
2. The person ordering the Report will receive the "original" Report and SSE Contracting will retain 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 origin stating the frequency at which it should be tested. For safety reasons it is important that this instruction is followed.
5. The "Extent and Limitations" in Section 1 identify the extent of the installation covered by this Report and any Limitations on the inspection and testing. The "Extent and Limitations" have been agreed with the person ordering the Report and/or with the interested parties such as licencing authority, insurance company, mortgage provider and the like before the inspection was carried out and identified within the Quotation and/or Specification provided to cover the work.
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 will have noted these in Section 4.
7. For items classified in Section 4 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 4 as C2 "Potentially dangerous", the safety of those using the installation may be at risk, and it is recommended that a skilled person competent in electrical installation work undertakes the necessary remedial work as a matter of urgency.
9. Where it has been stated in Section 4 that an observation requires "Further Investigation" 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 without delay, to determine the nature and extent of the apparent deficiency.
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 the "Report Summary" and on a label at or near to the electrical intake position.

Note: Where inadequacies in the distributor's equipment are identified in Section 4, it is your responsibility to inform the appropriate supply authority to rectify the defects.