NICEIC APPROVED CONTRACTOR

Contractor's Reference Number

This certificate is not valid if the serial number has been defaced or altered

IPN4/0360487

ELECTRICAL INSTALLATION CONDITION REPORT

Issued in accordance with British Standard 7671 - Requirements for Electrical Installations by an Approved Contractor or Conforming Body enrolled with NICEIC, Warwick House,Houghton Hall Park, Houghton Regis,Dunstable,LU5 5ZX

Original (To the person ordering the work)

A. DETAILS OF THE CLIENT

Client: Calder Valley Skip Hire Limited

Address: Rochdale Road
Sowerby Bridge
Halifax

Postcode: HX6 3LL

B. PURPOSE OF THE REPORT

This report must be used only for reporting on the condition of an existing installation.

Purpose for which this report is required: Clients Request

Date(s) on which inspection and testing were carried out

C. DETAILS OF THE INSTALLATION

Occupier: Calder Valley Skip Hire Limited

Address: Rochdale Road
Sowerby Bridge
Halifax

Postcode: HX6 3LL

Estimated age of the electrical installation: 8+ years

Description of premises: domestic, commercial, industrial, other (Please state): Industrial

Evidence of alterations or additions: No

If yes, estimated age: N/A years

Date of previous inspection: 29 November 20

Electrical Installation Certificate No or previous Periodic Inspection or Condition Report No: ICN3/0420547

Records of installation available: ✔

Records held by: Client & RKE

D. EXTENT OF THE INSTALLATION AND LIMITATIONS ON THE INSPECTION AND TESTING

Extent of the electrical installation covered by this report:

All circuits as agreed with by client as listed on pages 5 to 22 of this certificate

Agreed limitations (including the reasons), if any, on the inspection and testing:

No High level luminaries tested at this time.

Agreed with: Client

Operational limitations including the reasons (see page No. N/A)

N/A

The inspection and testing have been carried out in accordance with BS 7671, 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 or underground, have not been visually inspected unless specifically agreed between the client and inspector prior to the inspection.

E. SUMMARY OF THE CONDITION OF THE INSTALLATION

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

The Existing Installation was found to be Satisfactory.

Summary of the condition of the installation continued on additional pages? No ✔ Yes Specify page No(s):

Overall assessment of the installation: SATISFACTORY / ~~UNSATISFACTORY~~

An 'Unsatisfactory' assessment indicates that dangerous (CODE C1) and/or potentially dangerous (CODE C2) conditions have been identified, or that Further investigation without delay (FI) is required

This report should have been reviewed and confirmed by the registered Qualified Supervisor of the Approved Contractor responsible for issuing it. (See declaration on page 2)

Please see the 'Notes for Recipients'

ELECTRICAL INSTALLATION CONDITION REPORT

Original (To the person ordering the work)

F. OBSERVATIONS AND RECOMMENDATIONS FOR ACTIONS TO BE TAKEN

Referring to the attached schedules of inspection and test results, and subject to the limitations at D:

There are no items adversely affecting electrical safety N/A **or** The following observations and recommendations for are made N/A

Item No		Code †

Additional Pages? No ✔ Yes Specify page

†*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:*

Code C1 ***"Danger Present".*** Risk of injury. Immediate remedial action required.
Code C2 ***"Potentially dangerous".*** Urgent remedial action required.
Code C3 ***"Improvement recommended".***
Code FI ***"Further investigation required without delay".***

Please see the notes for recipient for guidance regarding the Classification codes.

Immediate remedial action required for items:

Urgent remedial action required for items:

Further investigation required without delay for items:

Improvement recommended for items:

G. DECLARATION

I/We, being the person(s) responsible for the inspection and testing of the electrical installation (as indicated by my/our signatures below), particulars of which are described in page 1 (see C), having exercised reasonable skill and care when carrying out the inspection and testing, hereby declare that the information in this report, including the observations (see F) and the attached schedules (see H), provides an accurate assessment of the condition of the electrical installation taking into account the stated extent of the installation and the limitations of the inspection and testing (see D).

I/We further declare that in my/our judgement, the overall assessment of the installation in terms of its suitability for continued use is

SATISFACTORY / ~~UNSATISFACTORY~~* **(see F) at the time the inspection was carried out, and that it should be further inspected as recommended (see I).**

***An 'Unsatisfactory' assessment indicates that dangerous (CODE C1) and/or potentially dangerous (CODE C2) conditions have been identified, or that Further investigation without delay (FI) is required.**

INSPECTION, TESTING AND ASSESSMENT BY:

Signature	
Name (CAPITALS)	MARK BEARDALL
Position	Approved Electrician
Date:	01/11/2016

REPORT REVIEWED AND CONFIRMED BY:

Signature	
Name (CAPITALS)	MR B BOOTH
	(Registered Qualified Supervisor for the Approved Contractor at J)
Date:	01-Nov-16

Please see the 'Guidance for Recipients on the classification codes' in the 'Notes for Recipients'

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ELECTRICAL INSTALLATION CONDITION REPORT

Original (To the person ordering the work)

H. SCHEDULES AND ADDITIONAL PAGES

Inspection Schedule: Page(s) No 4,5,6

Additional pages, including additional source(s) data sheets: Page No(s)

Schedule of Circuit Details for the Installation: Page No(s) Odd, 7 - 21

Schedule of Test Results for the Installation: Page No(s) Even, 8 - 22

The pages identified are an essential part of this report. The report is valid only if accompanied by all the schedules and additional pages identified above.

I. NEXT INSPECTION

I/We recommend that this installation is further inspected and tested after an interval of not more than 3 Years *(Enter interval in terms of years, months or weeks, as appropriate)*

provided that any items at F which have been attributed a Classification code C1 (danger present) are remedied immediately and that any items which have been attributed a code C2 (potentially dangerous) or FI (further investigation required without delay) are remedied or investigated respectively as a matter of urgency. Items which have been attributed a Classification code C3 should be improved as soon as practicable (see F).

J. DETAILS OF NICEIC APPROVED CONTRACTOR

Trading Title: R K Electrical (Bradford) LTD

Address: Britannia Buildings Reservoir Road
Pellon
Halifax
West Yorkshire
Postcode HX2 0ET

Telephone number: 01422 364035

Email Address: 01422 348573

Enrolment number: 010901 (Essential information)

Branch number: (if applicable)

K. SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

System Type(s)

TN-S	
TN-C-S	✔
TN-C	
TT	
IT	

Number and Type of Live Conductors

		a.c.	✔	d.c.	
1-phase (2 wire)		1-phase (3 wire)		2 pole	
2-phase (3 wire)				3 pole	
3-phase (3 wire)	✔	3-phase (4 wire)		other	N/A
Other	N/A				

Nature of Supply Parameters

Nominal Voltage(s): $U^{(1)}$	230 V	U_0 (1)	400 V
Nominal frequency, $f^{(1)}$	50 Hz		
Prospective fault current, I_{pf} (2)(3)	0.74 kA		
External earth fault loop impendance, Z_e (3) (4)	0.26 Ω		
Number of sources	2		

Notes:
(1) by enquiry
(2) by enquiry or by measurement
(3) where more than one supply, record the higher or highest values
(4) by measurement

Characteristics of Primary Supply Overcurrent Protective Device(s)

BS(EN)	BS 1361 Fuse HBC Domesti
Type	1
Rated current	100 A
Short-circuit capacity	16 kA
Confirmation of supply polarity	✔ (✔)

L. PARTICULARS OF INSTALLATION AT THE ORIGIN

Means of Earthing

Distributor's facility: ✔

Installation earth electrode:

Details of Installation Earth Electrode (where applicable)

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

Location: N/A

Electrode resistance, R_A: N/A (Ω)

Method of measurement: N/A

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

Type: BS(EN)	BS EN 60947-3	Voltage rating	400 V
No of Poles	3	Rated current, I_n	125 A
Primary supply conductors material	Copper	RCD operating current, $I_{\Delta n}$*	N/A mA
Primary supply conductors csa	25.0 mm²	Rated time delay*	N/A ms
		RCD operating time (at $I_{\Delta n}$)*	N/A ms

Earthing and protective bonding conductors

Earthing conductor

Conductor material	Copper
Conductor csa	16.0 mm²
Connection/ continuity verified	✔ (✔)

Main protective bonding conductors

Conductor material	Copper
Conductor csa	10.0 mm²
Connection/ continuity verified	✔ (✔)

Bonding of extraneous-conductive-parts (✔)

Water installation pipes	✔	Lightning protection	
Oil installation pipes		Structural steel	✔
Gas installation pipes			

Other: N/A

** (applicable only where an RCD is suitable and is used as a main circuit-breaker)*

Please see the 'Notes for Recipients'

ELECTRICAL INSTALLATION CONDITION REPORT

Original (To the person ordering the work)

INSPECTION SCHEDULE FOR DISTRIBUTION BOARDS AND CIRCUITS

Item	Description	Outcome*	Location reference
1.0	**Condition/adequacy of distributor's/supply intake equipment**		
1.1	Service cable	✔	
1.2	Service head	✔	
1.3	Distributor's earthing arrangement(s)	✔	
1.4	Meter tails - Distributor/ Consumer	✔	
1.5	Metering equipment	✔	
1.6	Means of main isolation (where present)	✔	
2.0	**Presence of adequate arrangements for parallel or switched alternative sources**		
2.1	Adequate arrangements where a generating set operates as a switched alternative to the public supply	✔	
2.2	Adequate arrangements where a generating set operates in parallel with the public supply	N/A	
3.0	**Automatic disconnection of supply**		
3.1	Main earthing and bonding arrangements		
	· Presence and condition of distributor's earthing arrangement	✔	
	· Presence and condition of earth electrode arrangement	✔	
	· Adequacy of earthing conductor size	✔	
	· Adequacy of earthing conductor connections	✔	
	· Accessibility of earthing conductor connections	✔	
	· Adequacy of main protective bonding conductor size(s)	✔	
	· Adequacy of main protective bonding conductor connections	✔	
	· Accessibility of main protective bonding connections	✔	
	· Accessibility and condition of other protective bonding connections	✔	
	· Provision of earthing/bonding labels at all appropriate locations	✔	
3.2	FELV		
	· Source providing at least simple separation	N/A	
	· Plugs, socket-outlets and the like not interchangeable with those of other systems within the premises	N/A	
3.3	Reduced low voltage		
	· Adequacy of source	N/A	
	· Plugs, socket-outlets and the like not interchangeable with those of other systems within the premises	N/A	
4.0	**Other methods of protection (where the methods of protection listed below are employed, details should be provided on separate sheets)**		
4.1	Double insulation	✔	
4.2	Reinforced insulation	N/A	
4.3	Use of obstacles	N/A	
4.4	Placing out of reach	N/A	
4.5	Non-conducting location	N/A	
4.6	Earth-free local equipotential bonding	N/A	
4.7	Electrical separation for more than one item of equipment	N/A	
5.0	**Distribution equipment**		
5.1	Adequacy of working space/accessibility of equipment	✔	
5.2	Security of fixing	✔	
5.3	Condition of insulation of live parts	✔	
5.4	Adequacy/security of barriers	✔	
5.5	Condition of enclosure(s) in terms of IP rating	✔	
5.6	Condition of enclosure(s) in terms of fire rating	✔	
5.7	Enclosure not damaged/deteriorated so as to impair safety	✔	
5.8	Presence of main switch(es), linked where required	✔	
5.9	Operation of main switch(es) (functional check)	✔	
5.10	Correct identification of circuit protective devices	✔	
5.11	Adequacy of protective devices for prospective fault current	✔	
5.12	RCD(s) provided for fault protection - includes RCBOs	✔	
5.13	RCD(s) provided for additional protection - includes RCBOs	✔	

** All Outcome boxes must be completed*
'✔' indicates Acceptable condition
'LIM' indicates a Limitation
'N/A' indicates Not applicable

Unacceptable condition state C1 or C2
Improvement recommended state C3
Further investigation required without delay state FI
(to determine whether danger or potential danger exists)

Outcome
Provide additional comment where appropriate on attached numbered sheets. C1, C2, C3 and FI coded items to be recorded in Section F of the report.

INSPECTION SCHEDULE FOR DISTRIBUTION BOARDS AND CIRCUITS

Item	Description	Outcome*	Location reference
5.14	RCD(s) provided for protection against fire - includes RCBOs	✔	
5.15	Manual operation of circuit-breakers and RCDs to prove disconnection	✔	
5.16	Presence of RCD retest notice at or near equipment where required	✔	
5.17	Presence of diagrams, charts or schedules at or near equipment, where required	✔	
5.18	Presence of non-standard (mixed) cable colour warning notice at or near equipment where required	✔	
5.19	Presence of alternative/additional supply arrangement warning notice(s) at or near equipment where required		
5.20	Presence of replacement next inspection recommendation label	✔	
5.21	Presence of other required labelling (specify)		
5.22	Examination of protective device(s) and base(s); correct type and rating (no signs of unacceptable thermal damage, arcing or overheating)	✔	
5.23	Single-pole switching or protective devices in line conductors only	✔	
5.24	Protection against mechanical damage where cables enter equipment	✔	
5.25	Protection against electromagnetic effects where cables enter metallic enclosures	✔	
6.0	**Distribution/final circuits**		
6.1	Identification of conductors	✔	
6.2	Cables correctly supported throughout their length	✔	
6.3	Condition of insulation of live parts	✔	
6.4	Non-sheathed cables protected by enclosure in conduit, ducting or trunking	✔	
6.5	Suitability of containment systems for continued use (including flexible conduit)	N/A	
6.6	Cables correctly terminated in enclosures (indicate extent of sampling in Section D of report)	✔	
6.7	Confirmation of indication that SPD(s) are functional	N/A	
6.8	Confirmation that ALL conductor connections, including connections to busbars are correctly located in terminals and are tight and secure	✔	
6.9	Examination of cables for signs of unacceptable thermal and mechanical damage/deterioration	✔	
6.10	Adequacy of cables for current-carrying capacity with regard to the type and nature of installation	✔	
6.11	Adequacy of protective devices; type and rated current for fault protection	✔	
6.12	Presence and adequacy of circuit protective conductors	✔	
6.13	Co-ordination between conductors and overload protective devices	✔	
6.14	Cable installation methods/practices appropriate to the type and nature of installation and external influences	✔	
6.15	Cables where exposed to direct sunlight, of a suitable type	✔	
6.16	Cables installed under floors, above ceilings, in walls / partitions, adequately protected against damage		
	- installed in prescribed zones (see Section D. Extent and limitations)	✔	
	- incorporating earthed armour or sheath, or installed within earthed wiring system, or otherwise protected against mechanical damage by nails, screws and the like (see Section D. Extent and limitations)	✔	
6.17	Provision of additional protection by 30 mA RCD		
	- † for mobile equipment not exceeding a rating of 32 A for use outdoors	✔	
	- † for all socket-outlets of rating 20 A or less, unless exempt	✔	
	- † for cables installed in walls / partitions at a depth of less than 50 mm	✔	
	- † for cables installed in walls / partitions containing metal parts regardless of depth	✔	
6.18	Provision of fire barriers, sealing arrangements and protection against thermal effects	✔	
6.19	Band II cables segregated/separated from Band I cables	✔	
6.20	Cables segregated/separated from non-electrical services	✔	
6.21	Termination of cables at enclosures (identify numbers and locations of items inspected in Section D)		
	- Connections under no undue strain	✔	
	- No basic insulation of a conductor visible outside an enclosure	✔	
	- Connections of live conductors adequately enclosed	✔	
	- Adequacy of connection at point of entry to enclosure (gland, bush or similar)	✔	
6.22	General condition of wiring systems	✔	
6.23	Temperature rating of cable insulation	✔	
6.24	Condition of accessories including socket-outlets, switches and joint boxes	✔	
6.25	Suitability of accessories for external influences	✔	
6.26	Single-pole switching or protective devices in line conductors only	✔	
6.27	Adequacy of connections, including cpcs, within accessories and to fixed and stationary equipment - identify /record numbers and locations of items inspected	✔	

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'✔' indicates Acceptable condition
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'N/A' indicates Not applicable

Unacceptable condition state C1 or C2
Improvement recommended state C3
Further investigation required without delay state FI
(to determine whether danger or potential danger exists)

Outcome
Provide additional comment where appropriate on attached numbered sheets. C1, C2, C3 and FI coded items to be recorded in Section F of the report.

INSPECTION SCHEDULE FOR DISTRIBUTION BOARDS AND CIRCUITS

Item	Description	Outcome*	Location reference
7.0	**Isolation and switching**		
7.1	Isolators		
	· presence and condition of appropriate devices	✔	
	· acceptable location (state if local or remote)	✔	
	· capable of being secured in the OFF position	✔	
	· correct operation verified	✔	
	· clearly identified by position and/or durable marking(s)	✔	
	· Warning label posted in situations where live parts cannot be isolated by the operation of a single device	N/A	
7.2	Switching off for mechanical maintenance		
	· presence and condition of appropriate devices	✔	
	· acceptable location	✔	
	· capable of being secured in the OFF position	✔	
	· correct operation verified	✔	
	· clearly identified by position and/or durable marking(s)	✔	
7.3	Emergency switching/stopping		
	· presence and condition of appropriate devices	N/A	
	· readily accessible for operation where danger might occur	N/A	
	· correct operation verified	N/A	
	· clearly identified by position and/or durable marking(s)	N/A	
7.4	Functional switching		
	· presence and condition of appropriate devices	✔	
	· correct operation verified	✔	
8.0	**Current-using equipment (permanently connected)**		
8.1	Condition of equipment in terms of IP rating	✔	
8.2	Equipment does not constitute a fire hazard	✔	
8.3	Enclosure not damaged/deteriorated so as to impair safety	✔	
8.4	Suitability for the environment and external influences	✔	
8.5	Security of fixing	✔	
8.6	Cable entry holes in ceiling above luminaires, sized or sealed so as to restrict the spread of fire (indicate extent of sampling in Section D of report)	✔	
8.7	Recessed luminaires (e.g. downlighters)		
	· correct type of lamps fitted		
	· installed to minimise build-up of heat by use of "fire rated" fittings, insulation displacement box or similar		
	· no signs of overheating to surrounding building fabric		
	· no signs of overheating to conductors/terminations		
9.0	**Location(s) containing a bath or shower**		
9.1	Additional protection by RCD not exceeding 30 mA		
	· for low voltage circuits serving the location	N/A	
	· for low voltage circuits passing through Zone 1 and Zone 2 not serving the location	N/A	
9.2	Where used as a protective measure, requirements for SELV or PELV are met	N/A	
9.3	Shaver sockets comply with BS EN 61558-2-5 or BS 3535	N/A	
9.4	Presence of supplementary bonding conductors unless not required by BS 7671: 2008	N/A	
9.5	Low voltage (e.g. 230 volts) socket-outlets sited at least 3 m from zone 1	N/A	
9.6	Suitability of equipment for external influences for installed location in terms of IP rating	N/A	
9.7	Suitability of equipment for installation in a particular zone	N/A	
9.8	Suitability of current-using equipment for a particular position within the location	N/A	
10.0	**Other special installations or locations**		
	List special locations present, if any. List the results of particular inspections applied (a separate page is required for each location).	N/A N/A N/A N/A N/A N/A	

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Unacceptable condition state C1 or C2
Improvement recommended state C3
Further investigation required without delay state FI
(to determine whether danger or potential danger exists)

Outcome
Provide additional comment where appropriate on attached numbered sheets. C1, C2, C3 and FI coded items to be recorded in Section F of the report.

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SCHEDULE OF CIRCUIT DETAILS FOR THE PRIMARY DISTRIBUTION BOARD

Original (To the person ordering the work)

CIRCUIT DETAILS

TO BE COMPLETED IN EVERY CASE

Location of distribution board: Goods Office

Distribution board designation: DB-A

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

Supply to distribution board is from: N/A

No of phases: N/A

Nominal voltage: N/A V

Overcurrent protective device for the distribution circuit:

Associated RCD (if any): BS(EN) N/A

Type: BS(EN) N/A

Rating: N/A A

RCD No of poles: N/A

$I_{\Delta n}$ N/A mA

Circuit number and line	Circuit designation	Type of wiring (see code below)	Reference method ↟	Number of points served	Circuit conductors: csa Live (mm^2)	Circuit conductors: csa cpc (mm^2)	Max. disconnection time permitted by BS 7671 (s)	Overcurrent protective devices BS (EN)	Overcurrent protective devices Type	Overcurrent protective devices Rating (A)	Overcurrent protective devices Short-circuit capacity (kA)	RCD Operating current, $I_{\Delta n}$ (mA)	Maximum Z_s permitted by BS 7671 (Ω)
1L-1	DB-Outside WC	F	C	1	10.0	10.0	0.4	61009 RCD/RCBO	C	45	10	30	0.51
1L-3	DB-Portacabing	F	C	1	4	4	0.4	61009 RCD/RCBO	C	32	10	30	0.68
1L-2	Outside Socket	O SY	C	1	6	6	0.4	61009 RCD/RCBO	C	20	10	30	1.09
2L-123	Boiler Supply	F	C	1	6.0	6.0.	0.4	60898 MCB	C	20	10	N/A	1.15
3L-123	DB-Far Shed Mechanics	F	C	1	16.0	16.0	0.4	60898 MCB	C	63	10	N/A	0.37
4L-1	Outside Lights Via Switched Fused Connection Units	A	C	4	2.5	1.5	0.4	60898 MCB	B	16	10	N/A	2.88
4L-2	Emergency Lights + Fire Alarm	A	C	6	1.5	1.0	0.4	60898 MCB	B	6	10	N/A	7.67
4L-3	Lights Main Office	A	C	11	1.5	1.0	0.4	60898 MCB	B	6	10	N/A	7.67
5L-1	Water Heater	A	C	1	2.5	1.5	0.4	60898 MCB	B	16	10	N/A	2.88
5L-2	Lights Entrance	A	C	2	1.5	1.0	0.4	60898 MCB	B	6	10	N/A	7.67
5L-3	Spare	.	.	.	.	.	.	.	.	.	.	.	.
6L-1	Spare	.	.	.	.	.	.	.	.	.	.	.	.
6L-2	Socket Ringmain Office	B	B	9	2.5	1.5	0.4	61009 RCD/RCBO	C	32	10	30	0.72
6L-3	Socket Ringmain Kitchen	B	B	11	2.5	1.5	0.4	61009 RCD/RCBO	C	32	10	30	0.72

** In such cases, details of the distribution (sub-main) circuit(s), together with the test results for the circuit(s), must also be provided, on continuation schedules.*

↟ See Table 4A2 of Appendix 4 of BS 7671

CODES FOR TYPE OF WIRING								
A	B	C	D	E	F	G	H	O (Other - please state)
Thermoplastic insulated/ sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in non metallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in non metallic trunking	Thermoplastic/ SWA cables	Thermosetting/ SWA cables	Mineral-insulated cables	

See next page for Schedule of Test Results

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SCHEDULE OF TEST RESULTS FOR THE PRIMARY DISTRIBUTION BOARD

Original (To the person ordering the work)

TEST RESULTS

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

Characteristics at this distribution board

Yes — Confirmation of supply polarity

** See note below*

Z_s *0.26 Ω — Operating times of associated RCD (if any): At $I_{\Delta n}$ N/A ms; At $5I_{\Delta n}$ N/A ms

I_{pf} *0.74 kA

Phase sequence confirmed (where appropriate)

Test instruments (serial numbers) used:

Earth fault loop impedance		RCD	
Insulation resistance		Multi functior	15130003
Continuity		Other	N/A

Circuit number and line	Circuit impedances (Ω)					Insulation resistance				Polarity	Maximum measured earth fault loop impedance, Z_s	RCD operating times		Test button operation
	Ring final circuits only (measured end to end)			All circuits (At least one column to be completed)		Line/Line †	Line/Neutral †	Line/Earth †	Neutral/Earth			at $I_{\Delta n}$	at $5I_{\Delta n}$ (if applicable)	
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$R_1 + R_2$	R_2	(MΩ)	(MΩ)	(MΩ)	(MΩ)	(✔)	(Ω)	(ms)	(ms)	(✔)
1L-1	-	-	-	0.05	-	-	200+	200+	200+	✔	0.43	40	39	✔
1L-3	-	-	-	0.05	-	-	200+	200+	200+	✔	0.37	40	30	✔
1L-2	-	-	-	0.02	-	200+	200+	200+	200+	✔	0.34	39	29	✔
2L-123	-	-	-	0.07	-	200+	200+	200+	200+	✔	0.38	-	-	
3L-123	-	-	-	0.17	-	200+	200+	200+	200+	✔	0	-	-	
4L-1	-	-	-	0.10	-	-	200+	200+	200+	✔	0.71	-	-	
4L-2	-	-	-	0.64	-	-	200+	200+	200+	✔	1.15	-	-	
4L-3	-	-	-	0.99	-	-	200+	200+	200+	✔	1.29	-	-	
5L-1	-	-	-	0.42	-	-	200+	200+	200+	✔	0.75	-	-	
5L-2	-	-	-	0.35	-	-	200+	200+	200+	✔	0.72	-	-	
5L-3	-	-	-	-	-	-	-	-	-		-	-	-	
6L-1	-	-	-	-	-	-	-	-	-		-	-	-	
6L-2	0.22	0.22	0.28	0.28	-	-	200+	200+	200+	✔	0.65	40	10	✔
6L-3	0.29	0.29	0.24	0.24	-	-	200+	200+	200+	✔	0.59	40	10	✔

** Note: Where the installation can be supplied by more than one source, such as a primary source (eg public supply) and a secondary source (eg standby generator), the higher or highest values must be recorded.*

TESTED BY

Signature:		Position:	Approved Electrician
Name: (CAPITALS)	MARK BEARDALL	Date of testing:	26/09/2016

See previous page for Schedule of Circuit Details

NICEIC APPROVED CONTRACTOR

This certificate is not valid if the serial number has been defaced or altered IPN4/0360487

SCHEDULE OF CIRCUIT DETAILS FOR THE PRIMARY DISTRIBUTION BOARD

Original (To the person ordering the work)

CIRCUIT DETAILS

TO BE COMPLETED IN EVERY CASE

Location of distribution board: Main Office

Distribution board designation: DB-A

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

Supply to distribution board is from: N/A

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

Overcurrent protective device for the distribution circuit:

Associated RCD (if any): BS(EN) N/A

Type: BS(EN) N/A Rating: N/A A RCD No of poles: N/A $I_{\Delta n}$ N/A mA

Circuit number and line	Circuit designation	Type of wiring (see code below)	Reference method ↟	Number of points served	Circuit conductors: csa Live (mm^2)	Circuit conductors: csa cpc (mm^2)	Max. disconnection time permitted by BS 7671 (s)	Overcurrent protective devices BS (EN)	Overcurrent protective devices Type	Overcurrent protective devices Rating (A)	Overcurrent protective devices Short-circuit capacity (kA)	RCD Operating current, $I_{\Delta n}$ (mA)	Maximum Z_s permitted by BS 7671 (Ω)
1	Spare/ Term Bloc	.	.	.	.	.	.	.	.	.	.	.	.
2	Spare	.	.	.	.	.	.	.	.	.	.	.	.
3	Spare	.	.	.	.	.	.	.	.	.	.	.	.
4	Socket Ringmain Kitchen Upstairs	A	C	2	2.5	1.5	0.4	60898 MCB	B	32	10	N/A	1.44
5	Socket Ringmain Main Office Area Right Hand Side	A	B	20	2.5	1.5	0.4	60898 MCB	B	32	10	N/A	1.44
6	Socket Ringmain Main Office Area Left Hand Side	A	B	10	2.5	1.5	0.4	60898 MCB	B	32	10	N/A	1.44
7	Socket Ringmain Upstairs Office	A	B	19	2.5	1.5	0.4	60898 MCB	B	32	10	N/A	1.44
8	Cooker Lower Ground Floor	A	C	1	2.5	1.5	0.4	60898 MCB	B	32	10	N/A	1.44
9	Socket Ringmain Lower Ground Floor	A	C	7	2.5	1.5	0.4	61009 RCD/RCBO	C	20	10	30	1.15
10	Sockets BT Next To Board	A	C	1	2.5	1.5	0.4	60898 MCB	B	16	10	N/A	2.88
11	Patch Cabinet Supply	A	C	1	2.5	1.5	0.4	60898 MCB	B	16	10	N/A	2.88
12	Spare	.	.	.	.	.	.	.	.	.	.	.	.
13	Sockets In Store Lower Ground Floor	A	C	2	2.5	1.5	0.4	61009 RCD/RCBO	C	16	10	30	2.88
14	Alarm Spur Above Patch Panel	A	C	1	1.5	1.0	0.4	60898 MCB	B	16	10	N/A	2.88
15	Fan WC Ground Floor	A	C	1	2.5	1.5	0.4	60898 MCB	C	6	10	N/A	3.83
16	Spare	.	.	.	.	.	.	.	.	.	.	.	.
17	Lights Lower Ground Floor	A	C	6	1.5	1.0	0.4	60898 MCB	B	10	10	N/A	4.60
18	Lights Outside	A	C	7	1.5	1.0	0.4	60898 MCB	B	16	10	N/A	2.88
19	Lights Upstairs Offices	A	C	9	1.5	1.0	0.4	60898 MCB	B	6	10	N/A	7.67
20	Lights Main Office Area	A	C	6	1.5	1.0	0.4	60898 MCB	B	6	10	N/A	7.67
21	Lights Toilets Entrance + Kitchen	A	C	10	1.5	1.0	0.4	60898 MCB	B	6	10	N/A	7.67
22	Lights Upstairs Emergencys	A	C	5	1.5	1.0	0.4	60898 MCB	B	6	10	N/A	7.67
23	Lights Main Office Area	A	C	4	1.5	1.0	0.4	60898 MCB	B	6	10	N/A	7.67
24	Fire Alarm	FP-200	C	1	1.5	1.0	0.4	60898 MCB	B	6	10	N/A	7.67

** In such cases, details of the distribution (sub-main) circuit(s), together with the test results for the circuit(s), must also be provided, on continuation schedules.*
↟ See Table 4A2 of Appendix 4 of BS 7671

CODES FOR TYPE OF WIRING								
A	B	C	D	E	F	G	H	O (Other - please state)
Thermoplastic insulated/ sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in non metallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in non metallic trunking	Thermoplastic/ SWA cables	Thermosetting/ SWA cables	Mineral-insulated cables	

See next page for Schedule of Test Results

NICEIC APPROVED CONTRACTOR

This certificate is not valid if the serial number has been defaced or altered IPN4/0360487

SCHEDULE OF TEST RESULTS FOR THE PRIMARY DISTRIBUTION BOARD

Original (To the person ordering the work)

TEST RESULTS

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

Characteristics at this distribution board

N/A Confirmation of supply polarity

** See note below*

Z_s *N/A Ω — Operating times of associated RCD (if any): At $I_{\Delta n}$ N/A ms; At $5I_{\Delta n}$ N/A ms

I_{pf} *N/A kA

Phase sequence confirmed (where appropriate)

Test instruments (serial numbers) used:

Earth fault loop impedance		RCD	
Insulation resistance		Multi function	15130003
Continuity		Other	

Circuit number and line	Circuit impedances (Ω)					Insulation resistance				Polarity	Maximum measured earth fault loop impedance, Z_s	RCD operating times		Test button operation
	Ring final circuits only (measured end to end)			All circuits (At least one column to be completed)		Line/Line †	Line/Neutral †	Line/Earth †	Neutral/Earth			at $I_{\Delta n}$	at $5I_{\Delta n}$ (if applicable)	
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$R_1 + R_2$	R_2	(MΩ)	(MΩ)	(MΩ)	(MΩ)	(✔)	(Ω)	(ms)	(ms)	(✔)
1	-	-	-	-	-	-	-	-	-		-	-	-	
2	-	-	-	-	-	-	-	-	-		-	-	-	
3	-	-	-	-	-	-	-	-	-		-	-	-	
4	0.20	0.20	0.24	0.10	-	-	200+	200+	200+	✔	0.47	-	-	
5	0.58	0.61	1.35	0.52	-	-	200+	200+	200+	✔	0.75	-	-	
6	0.22	0.23	0.36	0.17	-	-	200+	200+	200+	✔	0.64	-	-	
7	0.44	0.44	0.74	0.32	-	-	200+	200+	200+	✔	0.70	-	-	
8	-	-	-	0.81	-	-	200+	200+	200+	✔	0.51	-	-	
9	0.65	0.65	1.00	0.42	-	-	200+	200+	200+	✔	0.74	48	20	✔
10	-	-	-	0.07	-	-	200+	200+	200+	✔	0.43	-	-	
11	-	-	-	0.09	-	-	200+	200+	200+	✔	0.44	-	-	
12	-	-	-	-	-	-	-	-	-		-	-	-	
13	-	-	-	0.40	-	-	200+	200+	200+	✔	0.68	40	10	✔
14	-	-	-	0.12	-	-	200+	200+	200+	✔	0.47	-	-	
15	-	-	-	0.26	-	-	200+	200+	200+	✔	0.63	-	-	
16	-	-	-	-	-	-	-	-	-		-	-	-	
17	-	-	-	1.34	-	-	52		52	✔	1.74	-	-	
18	-	-	-	0.68	-	-	200+		200+	✔	1.03	-	-	
19	-	-	-	0.80	-	-	196		196	✔	1.17	-	-	
20	-	-	-	0.66	-	-	200+		200+	✔	0.79	-	-	
21	-	-	-	0.62	-	-	72		1.01	✔	1.01	-	-	
22	-	-	-	0.72	-	-	200+		200+	✔	1.12	-	-	
23	-	-	-	0.84	-	-	200+		200+	✔	1.17	-	-	
24	-	-	-	0.16	-	-	200+	200+	200+	✔	0.54	-	-	

** Note: Where the installation can be supplied by more than one source, such as a primary source (eg public supply) and a secondary source (eg standby generator), the higher or highest values must be recorded.*

TESTED BY

Signature:		Position:	Approved Electrician
Name: (CAPITALS)	MARK BEARDALL	Date of testing:	27/09/2016

See previous page for Schedule of Circuit Details

NICEIC APPROVED CONTRACTOR

This certificate is not valid if the serial number has been defaced or altered IPN4/0360487

Original (To the person ordering the work)

SCHEDULE OF CIRCUIT DETAILS FOR THE PRIMARY DISTRIBUTION BOARD

CIRCUIT DETAILS

TO BE COMPLETED IN EVERY CASE

Location of distribution board: Conveyor Belt Room

Distribution board designation: DB-RHS

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

Supply to distribution board is from: DB-Main Refuse Circuit 2L-1

No of phases: 1 Nominal voltage: 230 V

Overcurrent protective device for the distribution circuit:

Associated RCD (if any): BS(EN) N/A

Type: BS(EN) BS 60898 Rating: 32 A RCD No of poles: N/A $I_{\Delta n}$ N/A mA

Circuit number and line	Circuit designation	Type of wiring (see code below)	Reference method ↟	Number of points served	Circuit conductors: csa Live (mm²)	Circuit conductors: csa cpc (mm²)	Max. disconnection time permitted by BS 7671 (s)	Overcurrent protective devices BS (EN)	Overcurrent protective devices Type	Overcurrent protective devices Rating (A)	Overcurrent protective devices Short-circuit capacity (kA)	RCD Operating current, $I_{\Delta n}$ (mA)	Maximum Z_s permitted by BS 7671 (Ω)
1	Socket Ringmain This Side Of Belt	B	B	4	2.5	1.5	0.4	60898 MCB	B	32	6	N/A	1.44
2	Heater Nearest Door - 1	B	B	1	2.5	1.5	0.4	60898 MCB	B	16	6	N/A	2.88
3	Heater - 2	B	B	1	2.5	1.5	0.4	60898 MCB	B	16	6	N/A	2.88
4	Heater - 4	B	B	1	2.5	1.5	0.4	60898 MCB	B	16	6	N/A	2.88
5	Heater - 3	B	B	1	2.5	1.5	0.4	60898 MCB	B	16	6	N/A	2.88
6	Fire Alarm Panel In This Room / Lights	B	B	1	2.5	1.5	0.4	60898 MCB	B	16	6	N/A	2.88
7	Damaged MCB							60898 MCB	B	6			
8	Spare	-	-	-	-	-	-	-	-	-	-	-	-

** In such cases, details of the distribution (sub-main) circuit(s), together with the test results for the circuit(s), must also be provided, on continuation schedules.*

↟ See Table 4A2 of Appendix 4 of BS 7671

CODES FOR TYPE OF WIRING								
A	B	C	D	E	F	G	H	O (Other - please state)
Thermoplastic insulated/ sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in non metallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in non metallic trunking	Thermoplastic/ SWA cables	Thermosetting/ SWA cables	Mineral-insulated cables	

See next page for Schedule of Test Results

NICEIC APPROVED CONTRACTOR

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SCHEDULE OF TEST RESULTS FOR THE PRIMARY DISTRIBUTION BOARD

Original (To the person ordering the work)

TEST RESULTS

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

Characteristics at this distribution board

Yes — Confirmation of supply polarity

** See note below*

Z_s *0.37 Ω — Operating times of associated RCD (if any): At $I_{\Delta n}$ 23 ms; At $5I_{\Delta n}$ 30 ms

I_{pf} *0.62 kA

Phase sequence confirmed (where appropriate)

Test instruments (serial numbers) used:

Earth fault loop impedance		RCD	N/A
Insulation resistance		Multi function	15130003
Continuity		Other	N/A

Circuit number and line	Circuit impedances (Ω)					Insulation resistance				Polarity	Maximum measured earth fault loop impedance, Z_s	RCD operating times		Test button operation
	Ring final circuits only (measured end to end)			All circuits (At least one column to be completed)		Line/Line †	Line/Neutral †	Line/Earth †	Neutral/Earth			at $I_{\Delta n}$	at $5I_{\Delta n}$ (if applicable)	
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$R_1 + R_2$	R_2	(MΩ)	(MΩ)	(MΩ)	(MΩ)	(✔)	(Ω)	(ms)	(ms)	(✔)
1	0.27	0.28	0.22	0.15		-	200+	200+	200+	✔	1.20	-	-	
2	-	-	-	0.29	-	-	200+	200+	200+	✔	0.98	-	-	
3	-	-	-	0.20	-	-	200+	200+	200+	✔	0.59	-	-	
4	-	-	-	0.06	-	-	200+	200+	200+	✔	0.43	-	-	
5	-	-	-	0.12	-	-	200+	200+	200+	✔	0.46	-	-	
6	-	-	-	0.75	-	-	200+	200+	200+	✔	0.84	-	-	
7	-	-	-	-	-	-	-	-	-		-	-	-	
8	-	-	-	-	-	-	-	-	-		-	-	-	

** Note: Where the installation can be supplied by more than one source, such as a primary source (eg public supply) and a secondary source (eg standby generator), the higher or highest values must be recorded.*

TESTED BY

Signature:		Position:	Approved Electrician
Name: (CAPITALS)	MARK BEARDALL	Date of testing:	26/09/2016

See previous page for Schedule of Circuit Details

NICEIC APPROVED CONTRACTOR

This certificate is not valid if the serial number has been defaced or altered

IPN4/0360487

Original (To the person ordering the work)

SCHEDULE OF CIRCUIT DETAILS FOR THE PRIMARY DISTRIBUTION BOARD

CIRCUIT DETAILS

TO BE COMPLETED IN EVERY CASE

Location of distribution board: Conveyor Belt Room

Distribution board designation: DB-LHS

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

Supply to distribution board is from: DB-Main Refuse Circuit 11L-2

No of phases: 1 Nominal voltage: 230 V

Overcurrent protective device for the distribution circuit:

Associated RCD (if any): BS(EN) N/A

Type: BS(EN) BS 60898 Rating: 32 A RCD No of poles: N/A $I_{\Delta n}$ N/A mA

Circuit number and line	Circuit designation	Type of wiring (see code below)	Reference method ↟	Number of points served	Circuit conductors: csa Live (mm^2)	Circuit conductors: csa cpc (mm^2)	Max. disconnection time permitted by BS 7671 (s)	Overcurrent protective devices BS (EN)	Overcurrent protective devices Type	Overcurrent protective devices Rating (A)	Overcurrent protective devices Short-circuit capacity (kA)	RCD Operating current, $I_{\Delta n}$ (mA)	Maximum Z_s permitted by BS 7671 (Ω)
1	Socket Ringmain Left Hand Side	B	B	4	2.5	1.5	0.4	60898 MCB	B	32	6	N/A	1.44
2	Heater 4	B	B	1	2.5	1.5	0.4	60898 MCB	B	16	6	N/A	2.88
3	Heater 2	B	B	1	2.5	1.5	0.4	60898 MCB	B	16	6	N/A	2.88
4	Heater 1	B	B	1	2.5	1.5	0.4	60898 MCB	B	16	6	N/A	2.88
5	Heater 3	B	B	1	2.5	1.5	0.4	60898 MCB	B	16	6	N/A	2.88
6	Lighting Left Hand Side Of Room	B	B	9	1.5	1.5	0.4	60898 MCB	B	6	6	N/A	7.67
7	Flood Lighting Gantry	B	B	1	1.5	1.5	0.4	60898 MCB	B	6	6	N/A	7.67
8	Spare	-	-	-	-	-	-	-	-	-	-	-	-

** In such cases, details of the distribution (sub-main) circuit(s), together with the test results for the circuit(s), must also be provided, on continuation schedules.*

↟ See Table 4A2 of Appendix 4 of BS 7671

CODES FOR TYPE OF WIRING								
A	B	C	D	E	F	G	H	O (Other - please state)
Thermoplastic insulated/ sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in non metallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in non metallic trunking	Thermoplastic/ SWA cables	Thermosetting/ SWA cables	Mineral-insulated cables	

See next page for Schedule of Test Results

NICEIC APPROVED CONTRACTOR

This certificate is not valid if the serial number has been defaced or altered IPN4/0360487

SCHEDULE OF TEST RESULTS FOR THE PRIMARY DISTRIBUTION BOARD

Original (To the person ordering the work)

TEST RESULTS

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

Characteristics at this distribution board

Yes — Confirmation of supply polarity

** See note below*

Z_s *0.54 Ω — Operating times of associated RCD (if any): At $I_{\Delta n}$ 39 ms; At $5I_{\Delta n}$ 24 ms

I_{pf} *0.44 kA

Phase sequence confirmed (where appropriate)

Test instruments (serial numbers) used:

Earth fault loop impedance		RCD	
Insulation resistance		Multi functior	15130003
Continuity		Other	

Circuit number and line	Circuit impedances (Ω)					Insulation resistance				Polarity	Maximum measured earth fault loop impedance, Z_s	RCD operating times		Test button operation
	Ring final circuits only (measured end to end)			All circuits (At least one column to be completed)		Line/Line †	Line/Neutral †	Line/Earth †	Neutral/Earth			at $I_{\Delta n}$	at $5I_{\Delta n}$ (if applicable)	
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$R_1 + R_2$	R_2	(MΩ)	(MΩ)	(MΩ)	(MΩ)	(✔)	(Ω)	(ms)	(ms)	(✔)
1	0.40	0.38	0.32	0.14	-	-	200+	200+	200+	✔	0.96	-	-	
2	-	-	-	0.12	-	-	200+	200+	200+	✔	0.68			
3	-	-	-	0.14	-	-	200+	200+	200+	✔	0.71			
4	-	-	-	0.76	-	-	200+	200+	200+	✔	1.30			
5	-	-	-	0.12	-	-	200+	200+	200+	✔	0.69			
6	-	-	-	1.01	-	-	200+	200+	200+	✔	1.60			
7	-	-	-	0.29	-	-	200+	200+	200+	✔	1.05			
8	-	-	-	-	-	-	-	-	-		-	-	-	

** Note: Where the installation can be supplied by more than one source, such as a primary source (eg public supply) and a secondary source (eg standby generator), the higher or highest values must be recorded.*

TESTED BY

Signature:		Position:	Approved Electrician
Name: (CAPITALS)	MARK BEARDALL	Date of testing:	26/09/2016

See previous page for Schedule of Circuit Details

NICEIC APPROVED CONTRACTOR

This certificate is not valid if the serial number has been defaced or altered IPN4/0360487

Original (To the person ordering the work)

SCHEDULE OF CIRCUIT DETAILS FOR THE PRIMARY DISTRIBUTION BOARD

CIRCUIT DETAILS

TO BE COMPLETED IN EVERY CASE

Location of distribution board: Outside WC

Distribution board designation: DB-Outside WC

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

Supply to distribution board is from: DB-A Circuit 1L-1

No of phases: 1 Nominal voltage: 230 V

Overcurrent protective device for the distribution circuit:

Associated RCD (if any): BS(EN) N/A

Type: BS(EN) BS 61009 Rating: 45 A RCD No of poles: N/A $I_{\Delta n}$ N/A mA

Circuit number and line	Circuit designation	Type of wiring (see code below)	Reference method ↟	Number of points served	Circuit conductors: csa Live (mm^2)	Circuit conductors: csa cpc (mm^2)	Max. disconnection time permitted by BS 7671 (s)	Overcurrent protective devices BS (EN)	Overcurrent protective devices Type	Overcurrent protective devices Rating (A)	Overcurrent protective devices Short-circuit capacity (kA)	RCD Operating current, $I_{\Delta n}$ (mA)	Maximum Z_s permitted by BS 7671 (Ω)
1	Spare	-	-	-	-	-	-	-	-	-	-	-	-
2	Spare	-	-	-	-	-	-	-	-	-	-	-	-
3	Spare	-	-	-	-	-	-	-	-	-	-	-	-
4	Spare	-	-	-	-	-	-	-	-	-	-	-	-
5	Spare	-	-	-	-	-	-	-	-	-	-	-	-
6	Lights WC	B	B	3	1.5	1.5	0.4	60898 MCB	B	6	10	N/A	7.67
-	-	-	-	-	-	-	-	-	-	-	-	-	-

** In such cases, details of the distribution (sub-main) circuit(s), together with the test results for the circuit(s), must also be provided, on continuation schedules.*

↟ See Table 4A2 of Appendix 4 of BS 7671

CODES FOR TYPE OF WIRING								
A	B	C	D	E	F	G	H	O (Other - please state)
Thermoplastic insulated/ sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in non metallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in non metallic trunking	Thermoplastic/ SWA cables	Thermosetting/ SWA cables	Mineral-insulated cables	

See next page for Schedule of Test Results

NICEIC APPROVED CONTRACTOR

This certificate is not valid if the serial number has been defaced or altered IPN4/0360487

SCHEDULE OF TEST RESULTS FOR THE PRIMARY DISTRIBUTION BOARD

Original (To the person ordering the work)

TEST RESULTS

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

Characteristics at this distribution board

Yes — Confirmation of supply polarity

** See note below*

Z_s *0.34 Ω — Operating times of associated RCD (if any): At $I_{\Delta n}$ 42 ms; At $5I_{\Delta n}$ 12 ms

I_{pf} *0.65 kA

Phase sequence confirmed (where appropriate)

Test instruments (serial numbers) used:

Earth fault loop impedance		RCD	
Insulation resistance		Multi functior	15130003
Continuity		Other	

Circuit number and line	Circuit impedances (Ω)					Insulation resistance				Polarity	Maximum measured earth fault loop impedance, Z_s	RCD operating times		Test button operation
	Ring final circuits only (measured end to end)			All circuits (At least one column to be completed)		Line/Line †	Line/Neutral †	Line/Earth †	Neutral/Earth			at $I_{\Delta n}$	at $5I_{\Delta n}$ (if applicable)	
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$R_1 + R_2$	R_2	(MΩ)	(MΩ)	(MΩ)	(MΩ)	(✔)	(Ω)	(ms)	(ms)	(✔)
1	-	-	-	-	-	-	-	-	-		-	-	-	✔
2	-	-	-	-	-	-	-	-	-		-	-	-	
3	-	-	-	-	-	-	-	-	-		-	-	-	
4	-	-	-	-	-	-	-	-	-		-	-	-	
5	-	-	-	-	-	-	-	-	-		-	-	-	
6	-	-	-	0.44	-	-	200+		200+	✔	.93	-	-	
-	-	-	-	-	-	-	-	-	-		-	-	-	

** Note: Where the installation can be supplied by more than one source, such as a primary source (eg public supply) and a secondary source (eg standby generator), the higher or highest values must be recorded.*

TESTED BY

Signature:		Position:	Approved Electrician
Name: (CAPITALS)	MARK BEARDALL	Date of testing:	26/09/2016

See previous page for Schedule of Circuit Details

NICEIC APPROVED CONTRACTOR

This certificate is not valid if the serial number has been defaced or altered IPN4/0360487

SCHEDULE OF CIRCUIT DETAILS FOR THE PRIMARY DISTRIBUTION BOARD

Original (To the person ordering the work)

CIRCUIT DETAILS

TO BE COMPLETED IN EVERY CASE

Location of distribution board: RHS Goods Office

Distribution board designation: DB-Portacabin

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

Supply to distribution board is from: DB-A 1L2

No of phases: 1 Nominal voltage: V

Overcurrent protective device for the distribution circuit:

Associated RCD (if any): BS(EN)

Type: BS(EN) BS 61009 Rating: 32 A RCD No of poles: 2 $I_{\Delta n}$ 30 mA

Circuit number and line	Circuit designation	Type of wiring (see code below)	Reference method ↕	Number of points served	Circuit conductors: csa Live (mm²)	Circuit conductors: csa cpc (mm²)	Max. disconnection time permitted by BS 7671 (s)	Overcurrent protective devices BS (EN)	Overcurrent protective devices Type	Overcurrent protective devices Rating (A)	Overcurrent protective devices Short-circuit capacity (kA)	RCD Operating current, $I_{\Delta n}$ (mA)	Maximum Z_s permitted by BS 7671 (Ω)
1	Portacabin Sockets	B	A	2	2.5	1.5	0.4	60898 MCB	B	16	6	30	2.73
2	Portacabin Lights	B	A	2	1.0	1.0	0.4	60898 MCB	B	6	6	30	7.28

** In such cases, details of the distribution (sub-main) circuit(s), together with the test results for the circuit(s), must also be provided, on continuation schedules.*

↕ See Table 4A2 of Appendix 4 of BS 7671

CODES FOR TYPE OF WIRING								
A	B	C	D	E	F	G	H	O (Other - please state)
Thermoplastic insulated/ sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in non metallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in non metallic trunking	Thermoplastic/ SWA cables	Thermosetting/ SWA cables	Mineral-insulated cables	

See next page for Schedule of Test Results

NICEIC APPROVED CONTRACTOR

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SCHEDULE OF TEST RESULTS FOR THE PRIMARY DISTRIBUTION BOARD

Original (To the person ordering the work)

TEST RESULTS

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

Characteristics at this distribution board

Yes — Confirmation of supply polarity

** See note below*

Z_s *0.37 Ω — Operating times of associated RCD (if any): At $I_{\Delta n}$ 40 ms; At $5I_{\Delta n}$ 29 ms

I_{pf} *0.62 kA

Phase sequence confirmed (where appropriate)

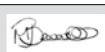
Test instruments (serial numbers) used:

Earth fault loop impedance		RCD	
Insulation resistance		Multi function	15130003
Continuity		Other	

Circuit number and line	Circuit impedances (Ω)					Insulation resistance				Polarity	Maximum measured earth fault loop impedance, Z_s	RCD operating times		Test button operation
	Ring final circuits only (measured end to end)			All circuits (At least one column to be completed)		Line/Line †	Line/Neutral †	Line/Earth †	Neutral/Earth			at $I_{\Delta n}$	at $5I_{\Delta n}$ (if applicable)	
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$R_1 + R_2$	R_2	(MΩ)	(MΩ)	(MΩ)	(MΩ)	(✔)	(Ω)	(ms)	(ms)	(✔)
1	-	-	-	0.26	-	-	200+	200+	200+	✔	0.65	40	29	✔
2	-	-	-	0.49	-	-	200+	200+	200+	✔	0.98	40	29	✔

** Note: Where the installation can be supplied by more than one source, such as a primary source (eg public supply) and a secondary source (eg standby generator), the higher or highest values must be recorded.*

TESTED BY

Signature:		Position:	Approved Electrician
Name: (CAPITALS)	MARK BEARDALL	Date of testing:	26/09/2016

See previous page for Schedule of Circuit Details

NICEIC APPROVED CONTRACTOR

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SCHEDULE OF CIRCUIT DETAILS FOR THE PRIMARY DISTRIBUTION BOARD

Original (To the person ordering the work)

CIRCUIT DETAILS

TO BE COMPLETED IN EVERY CASE

Location of distribution board: Outside Gantry

Distribution board designation: Main Shed

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

Supply to distribution board is from: Generator Set

No of phases: 3 Nominal voltage: 400 V

Overcurrent protective device for the distribution circuit:

Associated RCD (if any): BS(EN)

Type: BS(EN) 60947-3 Rating: 125 A RCD No of poles: $I_{\Delta n}$ mA

Circuit number and line	Circuit designation	Type of wiring (see code below)	Reference method ↟	Number of points served	Circuit conductors: csa Live (mm^2)	Circuit conductors: csa cpc (mm^2)	Max. disconnection time permitted by BS 7671 (s)	Overcurrent protective devices BS (EN)	Overcurrent protective devices Type	Overcurrent protective devices Rating (A)	Overcurrent protective devices Short-circuit capacity (kA)	RCD Operating current, $I_{\Delta n}$ (mA)	Maximum Z_s permitted by BS 7671 (Ω)
*													
1L123	Roller Shutter LHS Front	F	C	1	2.5	2.5	0.4	60898 MCB	C	20	10	N/A	1.15
2L123	Roller Shutter	F	C	1	2.5	2.5	0.4	60898 MCB	C	20	10	N/A	1.15
3L123	Roller Shutter	F	C	1	2.5	2.5	0.4	60898 MCB	C	20	10	N/A	1.15
4L1	Socket Ringmain Sockets In Shed	F	C	4	2.5	2.5	0.4	61009 RCD/RCBO	C	32	10	30	0.72
4L2	Sub Main Conveyor Room	F	C	1	6.0	6.0	0.4	61009 RCD/RCBO	C	32	10	30	0.72
4L3	Sub Main Conveyor Room	F	C	1	6.0	6.0	0.4	61009 RCD/RCBO	C	16	10	30	1.44
5L1	Shed Sockets & Control Room FCU-Lights	F	C	3	2.5	2.5	0.4	61009 RCD/RCBO	C				
5L2	Spare												
5L3	Redundant Fire Alarm												
6L1	Fire Alarm Panel + CCTV Supplies	FP-200	C	6	2.5	2.5	0.4	60898 MCB	B	16	10	N/A	2.88
6L2	Spare												
6L3	Spare												
7L1	Shed Lighting Row 3 (Not Tested)	F	C		2.5	2.5	0.4	60898 MCB	B	16	10	N/A	2.88
7L2	Shed Lighting Row 5 (Not Tested)	F	C		2.5	2.5	0.4	60898 MCB	B	16	10	N/A	2.88
7L3	Shed Lighting Row 6 (Not Tested)	F	C		2.5	2.5	0.4	60898 MCB	B	16	10	N/A	2.88
8L1	Shed Lighting Row 2 (Not Tested)	F	C		2.5	2.5	0.4	60898 MCB	B	16	10	N/A	2.88
8L2	Shed Lighting Row 4 (Not Tested)	F	C		2.5	2.5	0.4	60898 MCB	B	16	10	N/A	2.88
8L3	Shed Lighting Row 1 (Not Tested)	F	C		2.5	2.5	0.4	60898 MCB	B	16	10	N/A	2.88
9L1	Lighting Contactor Control Circuit	F/D	C/A		2.5	2.5	0.4	60898 MCB	B	6	10	N/A	7.28
9L2	Spare												
9L3	Spare												
10L1	External Lighting Contactor Control Circuit	F/D	C/A		2.5	2.5	0.4	60898 MCB	B	6	10	N/A	7.28
10L2	Spare												
11L1	Spare												
10L3	External Lights Gantry To Front (Not Tested)	F	C		2.5	2.5	0.4	60898 MCB	B	16	10	N/A	2.88
1L2	Spare												
11L3	Spare												
12L1	External Lights Rear & Side (Not Tested)	F	C		2.5	2.5	0.4	60898 MCB	B	16	10	N/A	2.88

** In such cases, details of the distribution (sub-main) circuit(s), together with the test results for the circuit(s), must also be provided, on continuation schedules.*
↟ See Table 4A2 of Appendix 4 of BS 7671

CODES FOR TYPE OF WIRING								
A	B	C	D	E	F	G	H	O (Other - please state)
Thermoplastic insulated/ sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in non metallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in non metallic trunking	Thermoplastic/ SWA cables	Thermosetting/ SWA cables	Mineral-insulated cables	

See next page for Schedule of Test Results

NICEIC APPROVED CONTRACTOR

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SCHEDULE OF TEST RESULTS FOR THE PRIMARY DISTRIBUTION BOARD

Original (To the person ordering the work)

TEST RESULTS

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

Characteristics at this distribution board

Yes — Confirmation of supply polarity

** See note below*

Z_s *0.49 Ω — Operating times of associated RCD (if any): At $I_{\Delta n}$ ms; At $5I_{\Delta n}$ ms

I_{pf} *0.47 kA

Phase sequence confirmed (where appropriate)

Test instruments (serial numbers) used:

Earth fault loop impedance		RCD	
Insulation resistance		Multi functior	15130003
Continuity		Other	

Circuit number and line	Circuit impedances (Ω)					Insulation resistance				Polarity	Maximum measured earth fault loop impedance, Z_s	RCD operating times		Test button operation
	Ring final circuits only (measured end to end)			All circuits (At least one column to be completed)		Line/Line †	Line/Neutral †	Line/Earth †	Neutral/Earth			at $I_{\Delta n}$	at $5I_{\Delta n}$ (if applicable)	
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$R_1 + R_2$	R_2	(MΩ)	(MΩ)	(MΩ)	(MΩ)	(✔)	(Ω)	(ms)	(ms)	(✔)
*														
1L123	-	-	-	0.82	-	200+	200+	200+	200+	✔	1.24	-	-	
2L123	-	-	-	0.49	-	200+	200+	200+	200+	✔	0.93	-	-	
3L123	-	-	-	0.81	-	200+	200+	200+	200+	✔	1.26	-	-	
4L1	0.11	0.11	0.09	0.47	-	-	200+	200+	200+	✔	0.57	40	10	✔
4L2	-	-	-	0.07	-	-	200+	200+	200+	✔	0.54	39	24	✔
4L3	-	-	-	0.17	-	-	200+	200+	200+	✔	0.70	43	23	✔
5L1	-	-	-	0.85	-	-	200+	200+	200+	✔	1.36	32	18	✔
5L2														
5L3														
6L1	-	-	-	0.96	-	-	200+	200+	200+	✔	1.33	-	-	
6L2														
6L3														
7L1										✔				
7L2														
7L3														
8L1														
8L2														
8L3														
9L1										✔				
9L2														
9L3														
10L1	-	-	-	0.33	-		200+		200+	✔	0.86	-	-	
10L2														
11L1														
10L3														
1L2														
11L3														
12L1														

** Note: Where the installation can be supplied by more than one source, such as a primary source (eg public supply) and a secondary source (eg standby generator), the higher or highest values must be recorded.*

TESTED BY

Signature:		Position:	Approved Electrician
Name: (CAPITALS)	MARK BEARDALL	Date of testing:	26/09/2016

See previous page for Schedule of Circuit Details

NICEIC APPROVED CONTRACTOR

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SCHEDULE OF CIRCUIT DETAILS FOR THE PRIMARY DISTRIBUTION BOARD

Original (To the person ordering the work)

CIRCUIT DETAILS

TO BE COMPLETED IN EVERY CASE

Location of distribution board: Outside Gantry

Distribution board designation: Main Shed

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

Supply to distribution board is from: Generator Set

No of phases: 3 Nominal voltage: 400 V

Overcurrent protective device for the distribution circuit:

Associated RCD (if any): BS(EN)

Type: BS(EN) 60947-3 Rating: 125 A

RCD No of poles: $I_{\Delta n}$ mA

Circuit number and line	Circuit designation	Type of wiring (see code below)	Reference method ↟	Number of points served	Circuit conductors: csa Live (mm²)	Circuit conductors: csa cpc (mm²)	Max. disconnection time permitted by BS 7671 (s)	Overcurrent protective devices BS (EN)	Overcurrent protective devices Type	Overcurrent protective devices Rating (A)	Overcurrent protective devices Short-circuit capacity (kA)	RCD Operating current, $I_{\Delta n}$ (mA)	Maximum Z_s permitted by BS 7671 (Ω)
12L2	Spare												
12L3	Spare												

** In such cases, details of the distribution (sub-main) circuit(s), together with the test results for the circuit(s), must also be provided, on continuation schedules.*

↟ See Table 4A2 of Appendix 4 of BS 7671

CODES FOR TYPE OF WIRING								
A	B	C	D	E	F	G	H	O (Other - please state)
Thermoplastic insulated/ sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in non metallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in non metallic trunking	Thermoplastic/ SWA cables	Thermosetting/ SWA cables	Mineral-insulated cables	

See next page for Schedule of Test Results

NICEIC APPROVED CONTRACTOR

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SCHEDULE OF TEST RESULTS FOR THE PRIMARY DISTRIBUTION BOARD

Original (To the person ordering the work)

TEST RESULTS

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

Characteristics at this distribution board

Yes — Confirmation of supply polarity

** See note below*

Z_s *0.49 Ω — Operating times of associated RCD (if any): At $I_{\Delta n}$ ms; At $5I_{\Delta n}$ ms

I_{pf} *0.47 kA

Phase sequence confirmed (where appropriate)

Test instruments (serial numbers) used:

Earth fault loop impedance		RCD	
Insulation resistance		Multi function	15130003
Continuity		Other	

Circuit number and line	Circuit impedances (Ω)					Insulation resistance				Polarity	Maximum measured earth fault loop impedance, Z_s	RCD operating times		Test button operation
	Ring final circuits only (measured end to end)			All circuits (At least one column to be completed)		Line/Line †	Line/Neutral †	Line/Earth †	Neutral/Earth			at $I_{\Delta n}$	at $5I_{\Delta n}$ (if applicable)	
	r_1 (Line)	r_n (Neutral)	r_2 (cpc)	$R_1 + R_2$	R_2	(MΩ)	(MΩ)	(MΩ)	(MΩ)	(✓)	(Ω)	(ms)	(ms)	(✓)
12L2														
12L3														

** Note: Where the installation can be supplied by more than one source, such as a primary source (eg public supply) and a secondary source (eg standby generator), the higher or highest values must be recorded.*

TESTED BY

Signature:		Position:	Approved Electrician
Name: (CAPITALS)	MARK BEARDALL	Date of testing:	26/09/2016

See previous page for Schedule of Circuit Details