



ELECTRICAL INSTALLATION CONDITION REPORT

(Requirements for Electrical Installations – BS 7671 :2018)

A. DETAILS OF THE CLIENT

Client: Mr Andrew Teverson
The Stage Bus Ltd

Address: Heywood Trading Estate
Mucklow Hill, Halesowen
B62 8EP

B. PURPOSE OF THE REPORT

Purpose for which this report is required: Periodic safety inspection of mobile stage known as Truck Stage

Date(s) on which the inspection and testing was carried out: 12/03/19

C. DETAILS OF THE INSTALLATION

Occupier: As per client

Address: As per client

Description of premises : Domestic Commercial Industrial Other, please specify : Mobile unit

Estimated age of the wiring system 4 Years. Evidence of additions or alterations Yes No Not Apparent

Installation records available? Yes No Date of last inspection unknown If yes, estimated age years

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

Extent of the electrical installation covered by this report Accessible fixed wiring

Agreed limitations including the reasons, see Regulations 634.2

Cables concealed within vehicle trim and bodywork

Limitations agreed with: Mr A Teverson

Operational limitations including the reasons

Cables concealed within vehicle trim and bodywork not inspected due to lack of access

See page No:

The inspection and testing detailed in this report and accompanying schedules have been carried out in accordance with BS 7671:2008 as amended to 2015

It should be noted that cables concealed within trunking and conduits, under floors,, and generally within the fabric of the building or underground, have not been inspected unless specifically agreed between the client and inspector prior to the inspection. An inspection should be made within an accessible roof space where electrical equipment is present.

E. SUMMARY OF THE CONDITION OF THE INSTALLATION

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

The installation is satisfactory. At its next overhaul, I recommend that 240V and 12V systems separation be enhanced at main panel. Note regarding earthing and other values: at the time of testing, a TN-S supply was connected. Other supplies including internal inverter are available and values will vary depending on the source of electrical energy supplied.

Summary of the condition of the installation continued on additional pages?

Overall assessment of the installation in terms of it's suitability for continued use: Satisfactory

* An unsatisfactory assessment indicates that dangerous and/or potentially dangerous conditions have been identified.

H. SCHEDULES AND ADDITIONAL PAGES

Inspection Schedule: Page(s) 4,5,6

Additional pages, including additional source(s) data sheets: 0

Schedule of Circuit Details for the installation: Page No(s) 1

Schedule of Test Results for the Installation: 1

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

Where the overall assessment of the suitability of the installation for continued use on page 1 is stated as UNSATISFACTORY, I/we recommend that any observations classified as 'Danger present' (Code C1) or 'Potentially dangerous' (Code C2) are acted upon as a matter of urgent investigation without delay is recommended for observations identified as 'Requiring further investigation' Observations classified as 'Improvement recommended' (Code C3) should be given due consideration.

Subject to the necessary remedial action being taken, I/we recommend that the installation is further inspected and tested after an interval of not more than: 12 MONTHS

J. DETAILS OF APPROVED CONTRACTOR

Trading Title: JB Services

Telephone number: 7502207873

Address: 4 Beechfield Grove
Bilston
WV14 9TJ

Email Address: hello@jbservices.tech

Enrolment number: Elecsa 62427

Postcode:

Branch Number (if applicable) N/A

K. SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

Tick boxes and enter details, as appropriate

System Type(s)	Number and Type of Live Conductors			Nature of Supply Parameters			Characteristics of Primary Over-current Protective Device(s)	
<input type="checkbox"/> TN-S	<input checked="" type="checkbox"/> A.C	<input type="checkbox"/> D.C		Nominal voltage U (1)	230	Volts	BS (EN)	61009 Type B
<input type="checkbox"/> TN-C-S	<input checked="" type="checkbox"/> 1 phase (2 wire)	<input type="checkbox"/> 2 pole		Nominal frequency f (1)	50	Hz	Type	BS EN 61009 RCD/RCBO - Type B
<input checked="" type="checkbox"/> TT	<input type="checkbox"/> 2 phase (3 wire)	<input type="checkbox"/> 1 phase (3 wire)	<input type="checkbox"/> 3 pole	PFC Ipf (1,2)	0.31	kA	Rated current	16
<input type="checkbox"/> TN-C	<input type="checkbox"/> 3 phase (3 wire)	<input type="checkbox"/> 3 phase (4 wire)	<input type="checkbox"/> Other	Earth fault loop impedance Ze (1,2)	6.99	Ω	Short circuit capacity	6kA
							<input checked="" type="checkbox"/>	Confirmation of supply polarity

L. PARTICULARS OF INSTALLATION AT THE ORIGIN

Tick boxes and enter details, as appropriate

Means of earthing	<input checked="" type="checkbox"/>	Distributor's facility	Type	TNC-S +electrd	Electrode resistance R	6.99	Ω
	<input checked="" type="checkbox"/>	Installation earth electrode	Location of the earth electrode	Variable – mobile unit			

MAIN PROTECTIVE CONDUCTORS

MAIN SWITCH/SWITCH-FUSE/CIRCUIT BREAKER/RCD

Earthing Conductor		Main protective bonding conductor		Bonding of extraneous parts			Type BS (EN)	61009	Voltage rating	240	V
Conductor Material	Copper	Conductor Material	Copper	Water	<input checked="" type="checkbox"/>	Structural steel	No. of poles	1	Rated current in	16	A
Conductor csa mm ²	2.5	Conductor csa mm ²	4	Gas	<input type="checkbox"/>	Other	Supply Conductor	Copper	RCD Operating Current	30	mA
<input checked="" type="checkbox"/> Continuity Check (✓)		<input type="checkbox"/> Continuity Check (✓)		Oil	<input type="checkbox"/>	Lighting	Conductor csa mm ²	2.5	RCD Operating Time	300	ms

This report is based on the model shown in BS 7671: 2008 amended to 2015

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CERTIFICATE REF:

M. INSPECTION SCHEDULE FOR DISTRIBUTION BOARDS AND CIRCUITS

OUTCOMES:	Acceptable Condition ✓	Unacceptable condition – state C1 or C2	Improvement recommended – state C3	Further investigation required – state F/I	Limitation: LIM	Not Applicable: N/A
ITEM	DESCRIPTION				OUTCOME	LOCATION REFERENCE
1.0	Condition/adequacy of distributor's/supply intake equipment					
1.1	Service cable					N/A
1.2	Service head					N/A
1.3	Distributor's earthing arrangement					N/A
1.4	Meter tails - Distributor/Consumer					N/A
1.5	Metering equipment					N/A
1.6	Means of main isolation (where present)				✓	
2.0	Presence of adequate arrangements for other sources (microgenerators etc)					
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				✓	
3.0	Earthing and bonding arrangements					
3.1	Presence and condition of distributor's earthing arrangement					LIM – mobile unit
3.2	Presence and condition of earth electrode connection				✓	
3.3	Confirmation of adequate earthing conductor size				✓	
3.4	Accessibility and condition of earthing conductor at Main Earthing Terminal (MET)				✓	
3.5	Confirmation of adequate main protective bonding conductor sizes				✓	
3.6	Accessibility and condition of main protective bonding conductor connections				✓	
3.7	Accessibility and condition of other protective bonding connections				N/A	
3.8	Provision of earthing and bonding labels at all appropriate locations				✓	
4.0	Consumer unit(s)					
4.1	Adequacy of working space or access to consumer unit				✓	
4.2	Security of fixing				✓	
4.3	Condition of enclosure(s) in terms of IP rating				✓	
4.4	Condition of enclosure(s) in terms of fire rating				✓	
4.5	Enclosure not damaged/deteriorated so as to impair safety				✓	
4.6	Presence of linked main switch				✓	
4.7	Operation of main switch (<i>functional check</i>)				✓	
4.8	Operation of circuit-breakers and RCDs to prove disconnection (<i>functional check</i>)				✓	
4.9	Correct identification of circuits and protective devices				✓	
4.10	Presence of RCD test notice at or near consumer unit				C3	Notice required
4.11	Presence of non-standard (mixed) cable colour warning notice at or near consumer unit				N/A	
4.12	Presence of alternative or additional supply warning notice at or near consumer unit				N/A	All supplies via inverter
4.13	Presence of replacement next inspection recommendation label				✓	
4.14	Presence of other required labelling (<i>please specify</i>)				✓	
4.15	Examination of protective device(s) and base(s); correct type and rating (<i>no signs of unacceptable thermal damage, arcing or overheating</i>)				✓	
4.16	Single-pole switching or protective devices in the line conductors only				✓	
4.17	Protection against mechanical damage where cables enter consumer unit				✓	
4.18	Protection against electromagnetic effects where cables enter metallic consumer unit/enclosure				✓	
4.19	RCDs provided for fault protection – includes RCBOs				✓	

M. INSPECTION SCHEDULE FOR DISTRIBUTION BOARDS AND CIRCUITS

OUTCOMES:	Acceptable Condition ✓	Unacceptable condition – state C1 or C2	Improvement recommended – state C3	Further investigation required – state F/I	Limitation: LIM	Not Applicable: N/A
ITEM	DESCRIPTION				OUTCOME	LOCATION REFERENCE
4.20	RCDs provided for additional protection – includes RCBOs				✓	
4.21	Confirmation of indication that SPD is functional				✓	
4.22	Confirmation that ALL conductor connections, including connections to busbars are correctly located in terminals and are tight and secure				✓	
5.0	Distribution/final circuits † Note: Older installations designed prior to BS 7671:2008 may not have been provided with RCDs for additional protection					
5.1	Identification of conductors				✓	
5.2	Cables correctly supported throughout their length				LIM	Inaccessible cable runs
5.3	Condition of insulation of live parts				LIM	Inaccessible cable runs
5.4	Non-sheathed cables protected by enclosure in conduit, ducting or trunking (<i>including confirmation of the integrity of conduit and trunking systems</i>)				N/A	None were observed
5.5	Adequacy of cables for current-carrying capacity with regard to the type and nature of installation				✓	
5.6	Adequacy of protective devices; type and rated current for fault protection				✓	
5.7	Presence and adequacy of circuit protective conductors				✓	
5.8	Co-ordination between conductors and overload protective devices				✓	
5.9	Wiring system(s) appropriate for the type and nature of the installation and external influences				✓	
5.10	Cables installed under floors, above ceilings, in walls / partitions, adequately protected against damage					
-	• installed in prescribed zones (see Section D. Extent and limitations)				N/A	
-	• 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)				N/A	
5.11	Provision of additional protection by RCD not exceeding 30 mA					
-	† for all socket-outlets of rating 20 A or less				✓	
-	† for mobile equipment not exceeding a rating of 32A for use outdoors				✓	
-	† for cables installed in walls or partitions at a depth of less than 50 mm				✓	
-	† for cables installed in walls / partitions containing metal parts regardless of depth				✓	
5.12	Provision of fire barriers, sealing arrangements and protection against thermal effects				✓	
5.13	Band II cables segregated/separated from Band I cables				C3	Improved segregation advisable
5.14	Cables segregated/separated from communications cabling				C3	Improved segregation advisable
5.15	Cables segregated/separated from non-electrical services					
5.16	Termination of cables at enclosures (<i>extent of sampling indicated in Section D of the report</i>)					
-	• connections soundly made and under no undue strain				✓	
-	• no basic insulation of a conductor visible outside enclosures				✓	
-	• connections of live conductors adequately enclosed				✓	
-	• adequately connected at point of entry to enclosure (<i>glands, bushes etc.</i>)				✓	
5.17	Condition of accessories including socket-outlets, switches and joint boxes				✓	
5.18	Suitability of accessories for external influences				C3	Consider splash proofing sockets that might be exposed to rain
5.19	Adequacy of working space / accessibility to equipment				✓	
5.20	Single-pole devices for switching or protection in line conductors only				✓	
6.0	Isolation and switching (isolation, switching off for mechanical maintenance and functional switching)					
6.1	In general					
-	• presence and condition of appropriate devices				✓	
-	• correct operation verified				✓	

CERTIFICATE REF:

M. INSPECTION SCHEDULE FOR DISTRIBUTION BOARDS AND CIRCUITS

OUTCOMES:		Acceptable Condition ✓	Unacceptable condition – state C1 or C2	Improvement recommended – state C3	Further investigation required – state F/I	Limitation: LIM	Not Applicable: N/A
ITEM	DESCRIPTION					OUTCOME	LOCATION REFERENCE
Isolation and switching (isolation, switching off for mechanical maintenance and functional switching) (continued)							
6.2	For isolation and switching for mechanical maintenance only						
-	• capable of being secured in the OFF position where appropriate					✓	
-	• acceptable location – state if local or remote from equipment being controlled where appropriate					✓	
-	• clearly identified by position and/or durable marking(s)					✓	
6.3	For isolation only						
-	• warning label(s) posted in situations where live parts cannot be isolated by the operation of a single device					N/A	
7.0	Current-using equipment (Permanently connected)						
7.1	Condition of equipment in terms of IP rating					✓	
7.2	Equipment does not constitute a fire hazard					✓	
7.3	Enclosure not damaged/deteriorated so as to impair safety					✓	
7.4	Suitability for the environment and external influences					✓	
7.5	Security of fixing					✓	
7.6	Cable entry holes in ceiling above luminaires, sized or sealed so as to restrict the spread of fire <i>List number and location of luminaires inspected. (Separate page)</i>					N/A	
7.7	Recessed luminaires (downlighters)						
-	• correct type of lamps fitted					N/A	
-	• installed to minimise build-up of heat by use of 'fire rated' fittings, insulation displacement box or similar					N/A	
-	• no signs of overheating to surrounding building fabric					N/A	
-	• no signs of overheating to conductors/terminations					N/A	
8.0	Location(s) containing a bath or shower						
8.1	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	
8.2	Where used as a protective measure, requirements for SELV or PELV are met					N/A	
8.3	Shaver sockets comply with BS EN 61558-2-5 formerly BS 3535					N/A	
8.4	Presence of supplementary bonding conductors unless not required by BS 7671: 2008					N/A	
8.5	Low voltage (e.g. 230 volts) socket outlets sited at least 3m from zone 1					N/A	
8.6	Suitability of equipment for external influences for installed location in terms of IP rating					N/A	
8.7	Suitability of equipment for installation in a particular zone					N/A	
9.0	Other special installations or locations - Part 7s						
9.1	List all other special installations or locations present, if any. (Record the results of particular inspection applied separately).					N/A	

TEST INSTRUMENTS USED		Examination of insulation of live parts, not damaged during erection	
Earth fault loop impedance	<input type="text"/>	Insulation resistance	<input type="text"/>
Continuity	<input type="text"/>	RCD	<input type="text"/>
Multi-function	Megger MFT1711/JB002	Earth electrode resistance	<input type="text"/>

DISTRIBUTION BOARD DETAILS

Location of the consumer unit: Under-stage floor Designation of consumer unit: Inverter system Prospective fault current at consumer unit: 0.31 kA

CIRCUIT DETAILS

TEST RESULTS

Circuit Reference	Circuit designation # To be completed only where this consumer unit is remote from the origin of the installation. Record details of the circuit supplying this consumer unit in the bold box.	Type of wiring	Reference method	Number of points served	Circuit conductors		Max. Disconnection time permitted (s)	Over-current devices			RCD	Maximum permitted Zs Ω	Circuit impedances Ω					Insulation resistance		Polarity	Maximum Measured Zs Ω	RCD			
					Live (mm ²)	cpc (mm ²)		Type BS EN	Rating (A)	Short circuit capacity (kA)	IΔn mA		Ring final circuits only (Measured end to end)			All circuits (At least one column to be completed)		Live /Live M Ω	Live /Earth M Ω			Functional Testing	At IΔn ms	At 5 x IΔn ms	
													r ₁	r _n	r ₂	R ₁ +R ₂	R ₂								
					#	All circuits from one RCBO																			
A	Socket strip A	A	E	6	2.5	2.5	0.4	61009 Type B	16	6	30	2.18	N/A	N/A	N/A	0.02	N/A	999	999	√	2.18	√	18.9	17.3	
B	Socket strip B	A	E	6	2.5	2.5	0.4	61009 Type B	16	6	30	2.18	N/A	N/A	N/A	0.03	N/A	999	999	√	2.18	√	18.9	17.7	

CODES FOR TYPES OF WIRING

A	B	C	D	E	F	G	H	O (other please state)
PVC/PVC CABLES	PVC CABLES IN METALLIC CONDUIT	PVC CABLES IN NON-METALLIC CONDUIT	PVC CABLES IN METALLIC TRUNKING	PVC CABLES IN NON-METALLIC TRUNKING	PVC/SWA CABLES	XLPE/SWA CABLES	MINERAL-INSULATED CABLES	

CONDITION REPORT. GUIDANCE FOR RECIPIENTS.

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

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This Report form is for reporting on the condition of an existing electrical installation.

1. The purpose of this condition report is to confirm, so far as reasonably practicable, whether or not the electrical installation is in a satisfactory condition for continued service (see Section E). The report should identify any damage, deterioration, defects and/or conditions which may give rise to danger.
2. The person ordering the Report should have received the original Report and the inspector should have retained a duplicate.
3. The original Report should be retained in a safe place and be made available to any person inspecting or undertaking work on the electrical installation in the future. If the property is vacated, this Report will provide the new owner /occupier with details of the condition of the electrical installation at the time the Report was issued.
4. Where the installation incorporates residual current devices (RCDs) there should be a notice at or near the devices stating that they should be tested quarterly. **For safety reasons it is important that these instructions are followed.**
5. Section D (Extent and Limitations) should identify fully the extent of the installation covered by this Report and any limitations on the inspection and testing. The inspector should have agreed these aspects with the person ordering the Report and with other interested parties (licensing authority, insurance company, mortgage provider and the like) before the inspection was carried out.
6. Some operational limitations such as such as inability to gain access to parts of the installation or an item of equipment may have been encountered during the inspection. The inspector should have noted these in Section D.
7. For items classified in Section M as C1 ("Danger Present"), **the safety of those using the installation is at risk**, and it is recommended that an electrically skilled or electrically instructed person undertakes the necessary remedial work immediately.
8. For items classified in Section M as C2 ("Potentially Dangerous"), **the safety of those using the installation may be at risk** and it is recommended that an electrically skilled or electrically instructed person undertakes the necessary remedial work as a matter of urgency.
9. Where it has been stated in Section M that an observation requires further investigation the inspection has revealed an apparent deficiency which could not, due to the extent or limitations of this inspection, be fully identified. Such observations should be investigated as soon as possible. A further examination of the installation will be necessary, to determine the nature and extent of the apparent deficiency (see Section F).
10. For safety reasons, the electrical installation will need to be re-inspected at appropriate intervals by an electrically skilled or electrically instructed person. The recommended date by which the next inspection is due is stated in Section F of the Report under 'Recommendations' and on a label near to the consumer unit or distribution board.

CONDITION REPORT.

Notes for the person producing the Report:

1. This Report should only be used for the reporting on the condition of an existing electrical installation.
2. The Report, normally comprising at least seven pages, should include schedules of both the inspection and the test results. Additional pages may be necessary for other than a simple installation and for the “guidance for recipients” The number of each page should be indicated, together with the total number of pages involved.
3. The reason for producing this Report, such as change of occupancy or landlord’s periodic maintenance, should be identified in Section B.
4. The maximum prospective fault current (I_{pf}) recorded should be the greater of either the short-circuit current or the earth fault current.
5. Those elements of the installation that are covered by the Report and those that are not should be identified in Section D (Extent and Limitations). These aspects should have been agreed with the person ordering the report and other interested parties before the inspection and testing is carried out. Any operational limitations, such as inability to gain access to parts of the installation or an item of equipment, should also be recorded in Section D.
6. The summary of condition of the installation in terms of safety should be clearly indicated in Section E. Observation(s), if any, should be categorised in Section M using the coding C1 to C3 as appropriate. Any observation given a C1 or C2 classification should result in the overall condition of the installation being reported as unsatisfactory.
7. Where an installation has an alternative source of supply a further schedule of supply characteristics and earthing details based upon Section I of this report should be provided.
8. Where an observation requires further investigation because the inspection has revealed an apparent deficiency which could not, owing to the extent or limitations of this inspection, be fully identified, this should be indicated in the column headed “Further investigation required” within Section M.
9. The date by which the next electrical installation condition report is required should be given in Section F. The interval between inspections should take into account the type and usage of the installation and its overall condition.
10. If the space available for observations in Section M is insufficient, additional pages should be provided as necessary.
11. Wherever practicable, items classified as ‘Danger present’ (C1) should be made safe on discovery. Where this is not practical the owner or user should be given written notification as a matter of urgency.