

Contractor's Reference Number

PART P NUMBER: N/A

55237

This certificate is not valid if the serial number has been defaced or altered ICN4/0524447

ELECTRICAL INSTALLATION CERTIFICATE

Conforming Body enrolled with NICEIC, Warwick House,Houghton Hall Park, Houghton Regis,Dunstable,LUS 52X

Original (To the person order

DETAILS OF THE CLIENT Client / Cardiff Council, County Hall, Atlantic Wharf, Cardiff Postcode: CF10 4UW Address **DETAILS OF THE INSTALLATION** The installation is: Sophia Gardens, Cardiff Postcode: CF11 9XR Address: New This certificate covers the installation of 2 earth electrodes connected in parallel to the pop up feeder pillar DB situated inside the feeder pillar in Extent of the An addition installation the events field of Sophia Gardens. The existing SWA gland has been replaced for an insulated stuffing gland to divorce the earth connected to covered by this the TNCS earth at the supply feeder pillar. The 125A 3 pole main switch of DB has been replaced for a 100A 300Ma RCD main switch. The pop certificate up pillar DB is now connected via TT system and should not be reconnected to the TNCS earth. Please see additional notes for test results of An alteration DESIGN Details of permitted exceptions appended: N/A Risk assessment appended: N/A No. of pages I/We, being the person(s) responsible for the design of the electrical installation (as indicated by my/our signature(s) below), particulars of which are described above, having exercised reasonable skill and care when carrying out the design, hereby CERTIFY that the design work for which I/we have been responsible is, to the best of my/our knowledge and belief, in accordance with BS 7671 amended to N/A (date) Details of departures from BS 7671, as amended (Regulations 120.3,133.5): N/A The extent of liability of the signatory/signatories is limited to the work described above as the subject of this certificate. For the **DESIGN** of the installation: ** (Where there is divided responsibility for the design) Signature Date Name (CAPITALS) **Designer 1** ** Signature Date Name (CAPITALS) Designer 2 CONSTRUCTION I, being the person responsible for the construction of the electrical installation (as indicated by my signature below), particulars of which are described above, having exercised reasonable skill and care when carrying out the construction, hereby CERTIFY that the construction work for which I have been responsible is to the best of my knowledge and belief, in accordance with BS 7671, amended to except for the departures, if any, detailed as follows: Details of departures from BS 7671 as amended (Begulations 120.3 133.5): N/A The extent of liability of the signatory is limited to the work described above as the subject of this certificate. For the **CONSTRUCTION** of the installation: Name (CAPITALS) Signature Date Constructor **INSPECTION AND TESTING** I, being the person responsible for the inspection and testing of the electrical installation (as indicated by my signature below), particulars of which are described above, having exercised reasonable skill and care when carrying out the inspection and testing, hereby CERTIFY that the work for which I have been responsible is to the best of my knowledge and belief, in accordance with BS 7671, amended to except for the departures, if any, detailed as follows: Details of departures from BS 7671, as amended (Regulations 120.3,133.5): N/A The extent of liability of the signatory/signatories is limited to the work described above as the subject of this certificate. For the **INSPECTION AND TESTING** of the installation: Date Signature Signature Date Qualified Name (CAPITALS) Inspector Name (CAPITALS) Supervisor † This box to be completed only where the design, construction, inspection and testing have been the responsibility of one person DESIGN, CONSTRUCTION, INSPECTION AND TESTING Details of permitted exceptions appended: N/A Risk assessment appended: N/A No. of pages I, being the person responsible for the design, construction, inspection and testing of the electrical installation (as indicated by my signature below), particulars of which are described above, having exercised reasonable skill and care when carrying out the design, construction, inspection and testing, hereby CERTIFY that the work for which I have been responsible is to the best of my knowledge and belief, in accordance with BS 7671, amended to N/A (date) Details of departures from BS 7671, as amended (Regulations 120.3,133.5): N/A The extent of liability of the signatory is limited to the work described above as the subject of this certificate. For the **DESIGN**, the **CONSTRUCTION** and the **INSPECTION AND TESTING** of the installation: Reviewed by Signature 🖉 🕖 Signature 🖞 📿 Date 31/07/2017 Date 31/07/2017 Qualified Name (CAPITALS) KEIRYN SMITHERS KEIRYN SMITHERS Name (CAPITALS) Supervisor †† 7 Page 1 of Where the inspection and testing have been carried out by an Approved Contractor, the inspection and testing results are to be reviewed by the registered Qualified Supervisor. †† Where the design, the construction, and the inspection and testing have been the responsibility of one person, the inspection and testing results are to be reviewed by the registered Qualified Supervisor.

This certificate is based on the model shown in Appendix 6 of BS7671 Published by Certsure LLP. Certsure LLP operates the ELECSA & NICEIC brands. Cmpyright Certsure LLP (January 2015) Please see the 'Notes for Recipients'



PARTICULARS OF THE ORGANISATION(S) RESPONSIBLE FOR THE ELECTRICAL INSTALLATION

Original (To the person ordering the work)

DESIGN (1)	Organisa	tion [†] C	JS Electrical													
		d Worksho arm Industr							nrolment No ppropriate)	031	690					
	Lisvan Cardif	e	ומו בסומול					Branch r	umber:	N/A						
		' Glamorgan	1		I	Postcode: C	F14 OSH	(if applic	able)	N/A						
DESIGN (2)	Organisa	tion [†] N	I/A													
Addı	ess: N/A								nrolment No ppropriate)	N/A						
									umber:	N/A						
					I	Postcode: N	/A	(if applic	ubie/							
† Construction	Organisat V		JS Electrical													
Addı	Mill Fa	d Worksho arm Industr							nrolment No Infomation)	031	690					
	Cardif	f				Postcodo: C	E1/1 094	Branch r (if applic		N/A						
INSPECTION	CONTRACTOR South Glamorgan Postcode: CF14 USH															
AND TESTING Address: The Old Workshops NICEIC Enrolment No 031690																
Addi	ess. Mill Fa Lisvan	arm Industr e							ppropriate)	031	090					
	Cardif South	f Glamorgan	1			Postcode: C	F14 OSH	(if applic		N/A						
SUPPLY C	IARACTE	RISTIC	S AND EAF	RTHING	ARRAN	IGEMEN	TS	Tick box	es and enter	r detai	ils, as app	oropriate	¢ (haracteristics	of Primary	Supply
◆System Type(s)		*#Numbe	er and Type of L	ive Conduct	ors	_		Manufact.	ure of Supply	Param		100		lvercurrent Pro	JECTIVE DE	vice(s)
TN-S		a.c.	✓		d.c.			Nominal Voltage(s): U ⁽¹		۷	U ₀ (1)	400 V	BS(EN)	LIM		
TN-C-S 🗸	1-phạse (2 wire)		1-phạse (3 wire)		2-pole			Nominal frequency, f ⁽¹⁾	50	Hz	Notes: (1) by enqu		Туре	LIM		
TN-C	2-phase (3 wire)				3-pole		Pr	current, I _{pf} ⁽²⁾⁽³⁾	LIM	kA	(2) by enqu measureme	nt	F	Rated current L	.IM	Α
тт	3-phase (3 wire)		3-phase (4 wire)	✓	other	N/A	External loop impe	rnal earth fault LIM simpendance, Ze ^(2]3)			(3) where n one supply, the higher o	record		Short-circuit apacity L	IM	kA
п	Other	N/A						Number of sources	N/A		values	·		Confirmation of upply polarity	~	
PARTICUL	ARS OF IN	ISTALL	ΔΤΙΩΝ ΔΤ	THE OR	IGIN											
↔ Means of Ear	thing		Туре:	N/A	IGIN	Detai		ation Earth Ele	trode (where:	applic	able)					
Distributor's facility	: •	(eg rod(s),tape etc) Electrode	NUA			Location Method of	n: N/A								-
Installation earth electrode + Main Switc			tance, R _A :	N/A (Ω))	mea	asurement:	IN/A								
Turner	LIM	e/Gircuit-D	Voltage rating	LIM	v	Max Demand (I	imum L Load)	IM	Amps			Protective against elect				
N	LIM		Rated current,In	LIM	Α							ling Conductor	rs			
Sunnly	LIM		CD operating current, $I_{\Delta n}^*$	LIM	mA	Earth Conducto materia			Main protectiv onductor material	e bondi LIM	ng conducto	installatio	Water	onding of extra L nr	ineous-condu ightning otection	ictive parts (~)
Supply conductors	LIM	mm ² R	CD operating time (at I∆n)*	LIM	ms	Conductor	LIM	mm ² C	onductor	LIM	mm ²	installatio	Oil		ructural steel	
csa			Rated delay *	LIM	ms	csa Co connection		_	csa Conti connection ve	nyity/		installatio	.Gas on pipes		Other N	I/A
* (applicable only when			ed as a main circuit-l			CONNECTION	rvermeu		Connection ve	anneu						
COMMENT	S UN EXI		INSTALLA case of an alter		itions see	Section 63	13 N	lot tested						e appropriate, nts on the exis		
NEXT INSF	ECTION	**	§ Interval in terr												-	
I/We the design									ore than	ł	³ 5 years					
** The proposed date for reasonably be expect to Where the Approved	ed to receive duri	ing its intended	l life, and the period	should be agree	ed between i	the designer, ins	staller and other	r relevant parties.	mantion and to the	10				Pa	ge 2 of	7
 Where the Approved of that installation, the Where a number of s 	e 'Particulars of t ources are availal	the Organisatic ble to supply ti	on(s) responsible for he installation, and v	the Electrical In where the data g	stallation' m given for the	ay be recorded primary source	only in the sect	tion entitled 'CONS'	pection and testin RUCTION'	ıy				_		
a separate sheet mu This certificate is	<i>st be provided wh</i> based on the	<i>ich identifies t</i> model shov	the relevant information with the relevant information with the second s	tion relating to ea 6 of BS767	<i>ach additiona</i> 71	l source.		ure LLP (Janua	ry 2015)				Pleas	se see the 'N	otes for R	ecipients'



SCHEDULE OF ITEMS INSPECTED

1.0 CONDITION OF ELECTRICAL INTAKE EQUIPMENT

(the Distributor should be notified of any unsatisfactory

† See note below

	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	Isolator	N/A
2.0	PARALLEL OR SWITCHED ALTERNATIVE SOURCES OF Supply	
2.1	Presence of adequate arrangements where generator to operate as <u>a switched alternative</u>	
	a) Dedicated earthing arrangement independent of that of the public supply	N/A
2.2	Presence of adequate arrangements where generator to operate in parallel with public supply system	
	a) Correct connection of generator in parallel	N/A
	b) Compatibility of characteristics of means of generation	N/A
	c) Means to provide automatic disconnection of generator in the event of loss of public supply system or voltage or frequency deviation beyond declared values	N/A
	 d) Means to prevent connection of generator in the event of loss of public supply system or voltage or frequency deviation <u>beyond declared values</u> 	N/A
	e) Means to isolate generator from the public supply system	N/A
2.3	Presence of alternative/additional supply warning notices at:	
	a) The origin	N/A
	b) The meter position, if remote from origin	N/A
	 c) The consumer unit/distribution board to which the alternative/additional sources are connected 	N/A
	d) All points of isolation of ALL sources of supply	N/A
3.0	AUTOMATIC DISCONNECTION OF SUPPLY	
3.1	Presence and adequacy of protective earthing/ bonding	
	arrangements as follows:	
	 a) Distributor's earthing arrangement or installation earth electrode arrangement 	N/A
	b) Earthing conductor and connections	N/A
	c) Main protective bonding conductors and connections	N/A
	d) Earthing/bonding labels at all appropriate locations	N/A
3.2	Accessibility of:	i
	a) Earthing conductor connections	N/A
	b) All protective bonding connections	N/A
3.3	FELV - requirements satisfied	N/A
3.4	Reduced low voltage requirements satisfied	N/A
4.0	BASIC PROTECTION	
4.1	Presence and adequacy of protective measures to provide basic	
	protection	-
	a) Insulation of live parts	<u> </u>
	b) Barriers or enclosures	V
	c) Obstacles**	N/A
	d) Placing out of reach**	N/A
5.0	ADDITIONAL PROTECTION	
5.0 5.1	ADDITIONAL PROTECTION The presence and effectiveness of additional protection methods	
	ADDITIONAL PROTECTION	~

N/A

N/A

N/A

N/A

N/A

N/A

 \checkmark

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V

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V

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V

N/A

N/A

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N/A

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6.0 **OTHER METHODS OF PROTECTION** (insert location in box provided) The presence and effectiveness of other methods of protection against electric shock where used, as follows: 6.1 Basic and fault protection LOCATION a) SELV b) PELV c) Double insulation/Reinforced insulation d) Electrical separation for one item of equipment 6.2 Fault protection Non-conducting location/Earth-free local equipotential bonding** a) Electrical separation for more than one item of equipment ** **DISTRIBUTION EQUIPMENT** 7.0 7.1 Adequacy of working space/accessibility 7.2 Security of fixing Insulation of live parts not damaged during erection 7.3 Adequacy / security of barriers 7.4 7.5 Suitability of enclosures for IP and fire ratings 7.6 Enclosures not damaged during installation 7.7 Presence and effectiveness of obstacles Presence of main switch(es), linked where required 7.8 7.9 Operation of main switch(es) (functional check) Operation of circuit-breakers and RCDs to prove functionality 7.10 7.11 RCD(s) provided for fault protection, where specified 7.12 RCD(s) provided for protection against fire 7.13 RCD(s) provided for additional protection, where specified Confirmation overvoltage protection (SPDs) provided where 7.14 specified 7.15 Confirmation of indication that SPD is functional 7.16 Presence of RCD quarterly test notice at or near the origin Presence of diagrams, charts or schedules at or near each 7.17 distribution board, where required 7.18 Presence of non-standard (mixed) cable colour warning notice at or near the appropriate distribution board, where required 7.19 Presence of next inspection recommendation label 7.20 Presence of other required labelling

7.21 Selection of protective device(s) and base(s); correct type and rating

-7.22 Single-pole protective devices in line conductor only 7.23 Protection against mechanical damage where cables enter ~ equipment • 7.24 Protection against electromagnetic effects where cables enter ferromagnetic enclosures Confirmation that ALL conductor connections, including connections ~ 7.25 to busbars are correctly located in terminals and are tight and secure CIRCUITS 8.0

Identification of conductors 8.1 8.2 Cables correctly supported throughout their length 8.3 Examination of cables for signs of mechanical damage during installation Examination of insulation of live parts, not damaged during erection 8.4

** For use in controlled supervised/conditions only

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SCHEDULE OF ITEMS INSPECTED

† See note below

	Non-sheathed cables protected by enclosure in conduit, ducting or trunking	~
8.6	Suitability of containment systems (including flexible conduit)	~
8.7	Correct temperature rating of cable insulation	~
8.8	Adequacy of cables for current-carrying capacity with regard to the type and nature of installation	~
8.9	Adequacy of protective devices: type and rated current for fault protection	~
8.10	Presence and adequacy of circuit protective conductors	V
8.11	Coordination between conductors and overload protective devices	~
8.12	Wiring systems and cable installation methods / practices appropriate to the type and nature of installation and external influences	~
8.13	Cables installed under floors, above ceilings, in walls / partitions, adequately protected against damage	
	• installed in prescribed zones	V
	 incorporating earthed armour or sheath, or installed within earthed wiring system, or otherwise protected against mechanical damage by nails, screws and the like 	~
8.14	Provision of additional protection by RCDs having rated residual operating current (I_{\Delta n}) not exceeding 30 mA	
	a) for mobile equipment with a current rating not exceeding 32 A for use outdoors	~
	b) For all socket-outlets of rating 20 A or less, unless exempt	~
	c) For cables installed in walls/partitions at a depth of less than 50 mm	N/A
	d) For cables installed in walls/partitions containing metal parts regardless of depth	N/A
8.15	Provision of fire barriers, sealing arrangements so as to minimize the spread of fire	~
8.16	Band II cables segregated/separated from Band I cables	N/A
8.17	Cables segregated/separated from non-electrical services	N/A
8.18	Termination of cables at enclosures	
	a) Connections under no undue strain	>
	b) No basic insulation of a conductor visible outside enclosure	>
	c) Connections of live conductors adequately enclosed	~
	d) Adequately connected at point of entry to enclosure (glands, bushes etc.)	~
8.19	Suitability of circuit accessories for external influences	>
8.20	Circuit accessories not damaged during erection	~
8.21	Single-pole devices for switching in line conductor only	~
8.22	Adequacy of connections, including cpcs, within accessories and at fixed and stationary equipment	~
9.0	ISOLATION AND SWITCHING	
9.1	Isolators	
	a) Presence and location of appropriate devices	~
	b) Capable of being secured in the OFF position	~
	c) Correct operation verified (functional check)	~
	d) The installation, circuit or part thereof that will be isolated is clearly identified by location and/or durable marking	~
	e) Warning label posted in situations where live parts cannot be	N/A

9.2 Switching off for mechanical maintenance a) Presence of appropriate devices • b) Acceptable location (state if local or remote) ~ V c) Capable of being secured in the OFF position d) Correct operation verified (functional check) ~ The circuit or part thereof to be disconnected clearly identified by location and/or durable marking N/A e) 9.3 Emergency switching/stopping N/A a) Presence of appropriate devices b) Readily accessible for operation where danger might occur N/A c) Correct operation verified (functional check) N/A The installation, circuit or part thereof to be disconnected, clearly identified by location and/or durable marking N/A d) 9.4 Functional switching 4 a) Presence of appropriate devices b) Correct operation verified (functional check) ~ 10.0 CURRENT-USING EQUIPMENT (PERMANENTLY CONNECTED) • 10.1 Suitability of equipment in terms of IP and fire ratings \checkmark 10.2 Enclosure not damaged/deteriorated during installation so as to impair safety 10.3 Suitability for the environment and external influences • 10.4 Security of fixing 4 10.5 Cable entry holes in ceilings above luminaires, sized or sealed so as N/A to restrict the spread of fire 10.6 Recessed luminaires (downlighters) a) Correct type of lamps fitted N/A b) Installed to minimise build-up of heat N/A N/A 10.7 Provision of undervoltage protection, where specified 10.8 Provision of overload protection, where specified N/A 10.9 Adequacy of working space/accessibility to equipment N/A **11.0 SPECIAL INSTALLATIONS OR LOCATIONS** List below any Special Installations or Locations which are part of the installation to be verified, and confirm that the additional requirements given in the respective section of Part 7 are fulfilled. 12.0 OTHER

All boxes must be completed. 'v' indicates that an inspection was carried out and that the result was satisfactory. 'N/A' indicates that an inspection was not applicable to the particular installation.

* Where the electrical work to which this certificate relates includes the installation of a fire alarm system and/or an emergency lighting system (or a part of such systems), this electrical safety certificate should be accompanied by the particular certificate(s) for the system(s).

This certificate is based on the model shown in Appendix 6 of BS7671

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Page 4 of



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SCHEDULE OF CIRCUIT DETAILS FOR THE INSTALLATION

	CIRCUIT DETAILS													
TO BE CO	MPLETED IN EVERY CASE	TO BE COMPLETED ONLY IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION*												
Location of distribution board:	Feeder Pillar in events field Sophia Gardens	Supply to distribution board is from:	Main feeder pillar			No of phases:	3	Nominal voltage:	400	v				
		Overcurrent protective d	evice for the distribution circuit:			Associated RCD (if any): BS(EN)	61008							
Distribution board designation:	Pop up DB	Type: BS(EN) LIM		Rating:	LIM	A RCD No of poles:	4	l∆n	300	mA				

	Circuit designation	_			Cir conduc	cuit tors: csa	ion	Overcurrent p	protectiv	e devices		RCD	; 7671
Circuit number and line		Type of wir (see code be Reference method Number of points server		Live (mm²)	cpc (mm²)	Max. disconnection time permitted by BS 7671	BS (EN)	Type	🟵 Rating	₩ Short-circuit E capacity	Ƴ Operating ∀ current, l∆n	© Maximum Zs © permitted by BS 767	
1L1	Single Phase 63A socket	A	В	1	16	16	0.4	60898 MCB	В	63	10	30	0.69
1L2	16A Socket below #2	A	В	1	2.5	2.5	0.2	61009 RCD/RCB0	В	16	10	30	2.73
1L3	16A Socket below #3	A	В	1	2.5	2.5	0.2	61009 RCD/RCB0	В	16	10	30	2.73
2L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2L2	32A Socket below #3	A	В	1	6	6	0.2	61009 RCD/RCB0	В	32	10	30	1.37
2L3	32A Socket below #4	A	В	1	6	6	0.2	61009 RCD/RCB0	В	32	10	30	1.37
3L1	63A TP Socket }	A	В	1	16	16	0.4	60898 MCB	C	63	10	30	0.35
3L2	63A TP Socket }	A	В	1	16	16	0.4	60898 MCB	C	63	10	30	0.35
3L3	63A TP Socket }	A	В	1	16	16	0.4	60898 MCB	C	63	10	30	0.35
4L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

† See Table 4A2 of Appendix 4 of BS 7671

	CODES FOR TYPE OF WIRING											
Γ	Α	В	C	D	E	F	G	Н	O (Other - please state)			
Ī	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	N/A			

* 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.



Page 5 of



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SCHEDULE OF TEST RESULTS FOR THE INSTALLATION

								TEST F	RESULTS						
TO BE COMPLETED ONLY IF THE DISTRIBUTION BOARD IS NOT CONNECTED Directly to the origin of the installation									Test instruments (serial numbers) used:						
		(Character	ristics at this distribut	tion board										
	Yes		Confirma	ation of supply polari	ty			Earth fault loop impedance	N/A	RCD	N/A				
* S	ee note below							Insulation		Multi-					
Z_{S}	8.67		Ω	Operating times of associated	At I∆n	35	ms	resistance	N/A	function	6111-754/0803/08/513				
\mathbf{I}_{pf}	*LIM		kA	RCD (if any)	At 5I∆n	LIM	ms	Continuity	N/A	Other	N/A				
Phase sequence confirmed (where appropriate)															

ler		Ci	rcuit impeda (Ω)	nces			Insulation r	esistance	-	Polarity	measured earth	RCD o tir	perating nes	
Circuit number and line	Rin (me	g final circuits easured end to	only end)	(At least	ircuits one column ompleted)	Line/Line †	Line/Neutral 1	Line/Earth †	Neutral/Earth		fault loop impedance, Z _S	at l∆n	at 5l∆n (if applicable)	Test button operation
5	r1 (Line)	r _n (Neutral)	r ₂ (cpc)	$R_1 + R_2$	R ₂	(MΩ)	(MΩ)	(MΩ)	(MΩ)	(~)	(Ω)	(ms)	(ms)	()
1L1	N/A	N/A	N/A	0.17	N/A	N/A	> 99	> 99	> 99	~	0.34	16.6	8.3	~
1L2	N/A	N/A	N/A	0.20	N/A	N/A	> 99	> 99	> 99		0.37	139.6	18.1	~
1L3	N/A	N/A	N/A	N/A	N/A	N/A	> 99	> 99	> 99	~	0.40	16.2	8.9	~
2L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	
2L2	N/A	N/A	N/A	0.11	N/A	N/A	> 99	> 99	> 99	>	0.28	27.2	18.4	~
2L3	N/A	N/A	N/A	0.05	N/A	N/A	> 99	> 99	> 99	>	0.22	27.3	17.2	~
3L1	N/A	N/A	N/A	0.05	N/A	> 99	> 99	> 99	> 99	~	0.22	187.6	LIM	~
3L2	N/A	N/A	N/A	0.07	N/A	> 99	> 99	> 99	> 99	~	0.24	178.0	LIM	~
3L3	N/A	N/A	N/A	0.06	N/A	> 99	> 99	> 99	> 99	~	0.23	187.6	LIM	~
4L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	
4L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	
4L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	

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

TESTED BY

Signature:	N O	Position:	Qualified Supervisor		
	r. e~			Page 6 of	7
Name: (CAPITALS)	KEIRYN SMITHERS	Date of testing:	02/08/2017		

ADDITIONAL NOTES

Earth Electrode test results:-

Electrode 1 - 11.6 ohms Electrode 2 - 42.3 ohms Electrode 1 & 2 - 9.37 ohms