ELECTRICAL INSTALLATION CONDITION

Requirements For Electrical Installations - BS 7671 IET Wiring Regulations

Certificate Reference: 10938732

1 DETAI	LS OF T	HE PERSON	N ORDERING	THE	REPORT					
Client:	Lake Distr	ict National P	ark Authority							
Address:	Murley Mo	oss, Oxenholm	ne Road, Kenda	al, LA9 7	'RL					
			G THIS REP	ORT						
Reason for	-									
TO assess C	отрпансе	with BS 7671								
Date(s) on wh	nich inspect	ion and testing	g was carried out	t:	22/05/20	19				
3 DETAI	LS OF T	HE INSTAL	LATION WH	ICH IS	S THE SUE	BJECT	OF TH	HIS REPO	ORT	
Installation	Address:	Lake District 4TT	National Park <i>i</i>	Authority	y, Northern	Area Of	ffice, O	ld Station \	Yard, Threll	keld, CA12
Description of	f premises:	Domestic	N/A Comme	ercial	N/A Indus	trial	✓ 0	ther:	N/	A
Estimated age	e of wiring s	system:	5 years		dence of addi	itions/	No	if yes, est	imated age:	N/A years
	_	able? (Regulati	ion 651.1)	No alte	erations:	[Date of	last inspecti	ion: 2	25/04/2014
4 EXTEN	IT AND L	IMITATIO	NS OF INSP		n and te			<u></u>		
100% of the			vered by this rep	OOI L:						
Agreed limita	tions includ	ing the reasons	s (see Regulation	า 653.2):						
Server supp	lies to be	maintained. N	lone disruptive	inspecti	on.					
Agreed with:		Kate Davies	•							
Operational li including the		N/A								
7671:2018 (I It should be r	ET Wiring R noted that c	egulations) as ables conceale	nis report and ac amended to 20°d within trunking of been inspecte	18. g and cor	nduits, under	floors, i	in roof s	spaces, and	generally w	ithin the fabric
Danann	J 0. Singoi 9	,			_poooung u	.g. 234 80		5	cpcctor	F. 10. 10 1110

SUMMARY OF THE CONDITION OF THE INSTALLATION

See page 3 for a summary of the general condition of the installation in terms of electrical safety.

inspection. An inspection should be made within an accessible roof space housing other electrical equipment.

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

SATISFACTORY

5 Years

* An unsatisfactory assessment indicates that dangerous (Code C1) and/or potentially dangerous (Code C2) conditions have been identified.

RECOMMENDATIONS

 $\sqrt{}$ here 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 'Code 1 - Danger Present' or 'Code 2 - Potentially dangerous' are acted upon as a matter of urgency

Investigation without delay is recommended for observations identified as 'FI - Further Investigation Required'.

Observations classified as 'Code 3 - Improvement recommended' should be given due consideration.

Subject to the necessary remedial action being taken, I/we recommend that the installation is further inspected and tested by:

Note: The proposed date for the next inspection should take into consideration the frequency and quality of maintenance that the installation can reasonably be expected to receive during its intended life. The period should be agreed between relevant parties.

	Th	ere are no items adversely affecting electrical s	safety or	
N/A	Th	e following observations and recommendations		
Item N	lo		Observations	Classification Code
		e following codes, as appropriate, has been allo e for the installation the degree of urgency for	cated to each of the observations made above to indicate to remedial action.	the person(s)
C1 Da	ang sk	ger Present of injury. Immediate dial action required C2 Potentially dar Urgent remedial	ngerous C3 Improvement FI Further inv	estigation ithout delay
Immed	dia	te remedial action required for items:	N/A	
Urgent	t re	emedial action required for items:	N/A	
Improv	vei	ment recommended for items:	N/A	
Furthe	r i	nvestigation required for items:	N/A	

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This form is based on the model shown in Appendix 6 of BS 7671:2018.

OBSERVATIONS AND RECOMMENDATIONS FOR ACTIONS TO BE TAKEN

of this report under 'Extent of the Installation and Limitations of Inspection and Testing':

Referring to the attached schedules of inspection and test results, and subject to the limitations specified on page 1

8 GENERA General condit	L CONDITI									
Good condition	n completed t	o a high star	ndard.							
9 DECLAR	ATION									
									ndicated by my/	
signatures below inspection and to										
provides an accu	rate assessme				-		_			
in section 4 of th										
Trading Title:	Greenfields	Heat and Po	wer Ltd							
Address:	Unit 9, Newt	· ·					egistration applicable		611021000/	NIC1509
	Newton Reig Penrith	gny							017/0 0100	4.1
	Pennin					Te	elephone N	lumber:	01768 2102	4 1
			Postc	ode: CA1	11 0AB					
For the INSPEC		NG AND ASS	SESSMEN		•					
	im Sowerby	Position		Electricia	n	Signat	ure:	- Smerco) Date:	14/05/2019
Report reviewe			_							00/05/0040
Name: RIC	CHARD CLARI	K Positio	on: Contra	acts Manager -	Electrical	Signat	ure:		Date:	22/05/2019
	CHARACTE									
Earthing Arrangements	Number a	and Type of Liv	e Conduc		Na ⁻	ture of S	Supply Par	ameters	Supply Protec	tive Device
TN-S N/A	1-phase	1 nhaca	dc:		Nomina	11.	400 V U	o: 230 V	3S(EN): 1361	Fuse HBC
TN-C-S	(2 wire): N// 2-phase	(3 wire):	N/A 2 p	0.01	voltage		quency, f:	50 Hz T	vne:	2
1	(3 wire):	2 phace	3 p	ole: N/A	1	pective				
TNC N/A	(3 wire): N//	A (4 wire):	Oth	ner: N/A	1	ent, lpf:			Rated current:	100 A
TT N/A	Other:	1	N/A				th fault ince, Ze:	I IM o	Short-circuit apacity:	33 kA
IT N/A	Confirmation of	of supply pola	rity:	V	!		supplies:	1	, ,	
<u> </u>				EEEDDE	:			!		
Means of Earth	JLARS OF I	INSTALLA						re applicable))	
Distributor's		Type:		N/A	Locati		ì	,	N/A	
facility: Installation		Resistance			Metho				N/A	
earth electrode:	N/A	to Earth:	N/A 		meası	urement	t: 		IN/A	
Maximum Demai	nd (Load):	52 kVA	Protect	tive measur	re(s) aga	inst ele	ctric shock	k:	ADS	
Main Switch / Sw	/itch-Fuse / Cir	cuit-Breaker .	/ RCD		Suppl	· ·/		If RCD m	nain switch:	
Type BS(EN): 6094	7-3 Isolator	Current rat	ing:	250 A	condu	ctors	Copper	Rated re	esidual ig current (l∆n)	. N/A mA
Number of poles: 3		Fuse/device	e rating	250 A	mater Suppl			opo. at	me delay:	N/A ms
or poles.		or setting:		400 v	condu	=	35 mm	n ² Measure	ed operating	NI/A
		Voltage rat	ing: 	400 V	csa:			time (at	IΔn):	N/A ms
Earthing and Pro Earthing conduct		g Conductors	Conne	ection/			of extraned installatio	ous-conductiv	ve parts To gas installa	ation N/A
Conductor		csa: 25 mn	n2 contin	uity	•	pes:			pipes: To lightning	IN/A
material: Main protective b			verifie	ed: ection/		o oil ins pes:	tallation	N/A	protection:	/
Conductor	_		contin		т.	struct	ural	V	To other servi	
	COPPCI	usa. IU IIIII		-1		ool.		_	וטוטום	ini ponits

Item	Description	Comment	Outcom
	·		Outcom
1.0	EXTERNAL CONDITION OF INTAKE EQUIPMENT (VISUAL INSPECT	,	
1.1	Service cable	N/A	<i>'</i>
1.2	Service head	N/A	<i>'</i>
1.3	Earthing arrangements	N/A	✓
1.4	Meter tails	N/A	✓
1.5	Metering equipment	N/A	'
1.6	Isolator (where present)	N/A	N/A
2.0	PRESENCE OF ADEQUATE ARRANGEMENTS FOR PARALLEL OR SWI		5
2.1	Adequate arrangements where a generating set operates as a switched alternative to the public supply (551.6)	N/A	'
2.2	Adequate arrangements where a generating set operates in parallel with the public supply (551.7)	N/A	'
3.0	AUTOMATIC DISCONNECTION OF SUPPLY		
3.1	Main earthing/bonding arrangements (411.3; Chap 54):	201/0	
3.1.1	Presence of distributor's earthing arrangement (542.1.2.1; 542.1.2.2), or presence of installation earth electrode arrangement (542.1.2.3)	<u> </u>	/
3.1.2	Adequacy of earthing conductor size (542.3; 543.1.1)	N/A	'
3.1.3	Adequacy of earthing conductor connections (542.3.2)	N/A	✓
3.1.4	Accessibility of earthing conductor connections (543.3.2)	N/A	'
3.1.5	Adequacy of main protective bonding conductor sizes (544.1)	N/A	✓
3.1.6	Adequacy and location of main protective bonding conductor connections (543.3.2; 544.1.2)	N/A	~
3.1.7	Accessibility of all protective bonding connections (543.3.2)	N/A	✓
3.1.8	Provision of earthing/bonding labels at all appropriate locations (514.13)	N/A	~
3.2	FELV - requirements satisfied (411.7; 411.7.1)	N/A	'
4.0	OTHER METHODS OF PROTECTION (where any of the methods listed provided on separate sheets)	ed below are employed details	should be
4.1	Non-conducting location (418.1)	N/A	N/A
4.2	Earth-free local equipotential bonding (418.2)	N/A	N/A
4.3	Electrical separation (Section 413; 418.3)	N/A	✓
4.4	Double insulation (Section 412)	N/A	·
4.5	Reinforced insulation (Section 412)	N/A	· ·
5.0	DISTRIBUTION EQUIPMENT		
5.1	Adequacy of working space/accessibility to equipment (132.12; 513.1)	N/A	✓
5.2	Security of fixing (134.1.1)	N/A	V
5.3	Condition of insulation of live parts (416.1)	N/A	·
5.4	Adequacy/security of barriers (416.2)	N/A	· ·
5.5	Condition of enclosure(s) in terms of IP rating etc (416.2)	N/A	· ·
5.6	Condition of enclosure(s) in terms of fire rating etc (421.1.6; 421.1.201; 526.5)	N/A	~
5.7	Enclosure not damaged/deteriorated so as to impair safety (651.2)	N/A	
5.8	Presence and effectiveness of obstacles (417.2)	N/A	· ·
5.9	Presence of main switch(es), linked where required (462.1; 462.1.201; 462.2)	N/A	· ·
UTCON Accepta conditio	MES Unacceptable C1 or C2 Improvement C2 Further FI	Not verified N/V Limitation LIM Ref: 10938732	Not Not Applicable Not Page: 4 of

	NSPECTION SCHEDULE (CONTINUED)	_	
Item	Description	Comment	Outcon
5.10	Operation of main switch(es) (functional check) (643.10)	N/A	'
5.11	Manual operation of circuit-breakers and RCDs to prove disconnection (643.10)	N/A	•
5.12	Confirmation that integral test button/switch causes RCD(s) to trip when operated (functional check) (643.10)	N/A	•
5.13	RCD(s) provided for fault protection – includes RCBOs (411.4.204; 411.5.2; 531.2)	N/A	~
5.14	RCD(s) provided for additional protection/requirements, where required – includes RCBOs (411.3.3; 415.1)	N/A	~
5.15	Presence of RCD six-monthly test notice at or near equipment, where required (514.12.2)	N/A	~
5.16	Presence of diagrams, charts or schedules at or near equipment, where required (514.9.1)	N/A	~
5.17	Presence of non-standard (mixed) cable colour warning notice at or near equipment, where required (514.14)	N/A	~
5.18	Presence of alternative supply warning notice at or near equipment, where required (514.15)	N/A	•
5.19	Presence of next inspection recommendation label (514.12.1)	N/A	✓
5.20	Presence of other required labelling (please specify) (Section 514)	N/A	N/A
5.21	Compatibility of protective devices, bases and other components; correct type and rating (no signs of unacceptable thermal damage, arcing or overheating) (411.3.2; 411.4; 411.5; 411.6; Sections 432, 433)	N/A	~
5.22	Single-pole switching or protective devices in line conductors only (132.14.1; 530.3.3)	N/A	~
5.23	Protection against mechanical damage where cables enter equipment (522.8.1; 522.8.5; 522.8.11)	N/A	~
5.24	Protection against electromagnetic effects where cables enter ferromagnetic enclosures (521.5.1)	N/A	~
6.0	DISTRIBUTION CIRCUITS		
6.1	Identification of conductors (514.3.1)	N/A	'
6.2	Cables correctly supported throughout their run (521.10.202; 522.8.5)	N/A	'
6.3	Condition of insulation of live parts (416.1)	N/A	'
6.4	Non-sheathed cables protected by enclosure in conduit, ducting or trunking (521.10.1)	N/A	~
6.5	Suitability of containment systems for continued use (including flexible conduit) (Section 522)	N/A	~
6.6	Cables correctly terminated in enclosures (Section 526)	N/A	✓
6.7	Confirmation that ALL conductor connections, including connections to busbars, are correctly located in terminals and are tight and secure	N/A	~
6.8	Examination of cables for signs of unacceptable thermal or mechanical damage/deterioration (421.1; 522.6)	N/A	•
6.9	Adequacy of cables for current-carrying capacity with regard for the type and nature of installation (Section 523)	N/A	~
.10	Adequacy of protective devices: type and rated current for fault protection (411.3)	N/A	~
.11	Presence and adequacy of circuit protective conductors (411.3.1.1; 543.1)	N/A	•
.12	Coordination between conductors and overload protective devices (433.1; 533.2.1)	N/A	•
OUTCOM Accepta	MES Unacceptable C1 or C2 Improvement C2 Further	Not N// Limitation LIM	Not applicable

4/11	ISPECTION SCHEDULE (CONTINUED)		
Item	Description	Comment	Outcom
6.13	Cable installation methods/practices with regard to the type and nature of installation and external influences (Section 522)	N/A	~
6.14	Where exposed to direct sunlight, cable of a suitable type (522.11.1)	N/A	✓
6.15	Cables concealed under floors, above ceilings, in walls/partitions l	less than 50mm from a surface	, and in
6.15.1	Installed in prescribed zones (see Section 4. Extent and limitations) (522.6.202) or	N/A	LIM
6.15.2	Incorporating earthed armour or sheath, or run within earthed wiring system, or otherwise protected against mechanical damage by nails, screws and the like (see Section 4. Extent and limitations) (522.6.204)	N/A	~
6.16	Provision of fire barriers, sealing arrangements and protection against thermal effects (Section 527)	N/A	•
6.17	Band II cables segregated/separated from Band I cables (528.1)	N/A	LIM
6.18	Cables segregated/separated from non-electrical services (528.3)	N/A	LIM
6.19	Condition of circuit accessories (651.2)	N/A	✓
6.20	Suitability of circuit accessories for external influences (512.2)	N/A	✓
6.21	Single-pole switching or protective devices in line conductors only (132.14.1; 530.3.3)	N/A	~
6.22	Adequacy of connections, including cpcs, within accessories and to fixed and stationary equipment – identify/record numbers and locations of items inspected (Section 526)	N/A	~
6.23	Presence, operation and correct location of appropriate devices for isolation and switching (Chapter 46; Section 537)	N/A	~
6.24	General condition of wiring systems (651.2)	N/A	V
6.25	Temperature rating of cable insulation (522.1.1; Table 52.1)	N/A	V
7.0	FINAL CIRCUITS		
7.1	Identification of conductors (514.3.1)	N/A	V
7.2	Cables correctly supported throughout their run (521.10.202; 522.8.5)	N/A	V
7.3	Condition of insulation of live parts (416.1)	N/A	V
7.4	Non-sheathed cables protected by enclosure in conduit, ducting or trunking (521.10.1)	N/A	~
7.5	Suitability of containment systems for continued use (including flexible conduit) (Section 522)	N/A	~
7.6	Adequacy of cables for current-carrying capacity with regard for the type and nature of installation (Section 523)	N/A	~
7.7	Adequacy of protective devices: type and rated current for fault protection (411.3)	N/A	~
7.8	Presence and adequacy of circuit protective conductors (411.3.1.1; 543.1)	N/A	'
7.9	Co-ordination between conductors and overload protective devices (433.1; 533.2.1)	N/A	'
7.10	Wiring system(s) appropriate for the type and nature of the installation and external influences (Section 522)	N/A	~
7.11	Cables concealed under floors, above ceilings, in walls/partitions,	adequately protected against of	damage
7.11.1	Installed in prescribed zones (see Section 4. Extent and limitations) (522.6.202)	N/A	LIM
7.11.2	Incorporating earthed armour or sheath, or run within earthed wiring system, or otherwise protected against mechanical damage by nails, screws and the like (see Section 4. Extent and limitations) (522.6.201;	N/A	~
DUTCON			
Acceptal conditio		Not verified N/V Limitation LIM	Not Not Not

5/11	ISPECTION SCHEDULE (CONTINUED)		
Item	Description	Comment	Outcom
7.12	Provision of additional protection by 30mA RCD:		
.12.1	For all socket-outlets of rating 32A or less unless exempt (411.3.3) *	N/A	~
'.12.2	For the supply of mobile equipment not exceeding 32A rating for use outdoors (411.3.3) *	N/A	~
.12.3	For cables concealed in walls at a depth of less than 50mm (522.6.202, 522.6.203) *	N/A	•
1.12.4	For cables concealed in walls/partitions containing metal parts regardless of depth (522.6.203) *	N/A	~
.12.5	For final circuits supplying luminaires within domestic (household) premises (411.3.4) *	N/A	N/A
	* Note: Older installations designed prior to BS 7671:2018 may not have protection.	been provided with RCDs for additiona	al
7.13	Provision of fire barriers, sealing arrangements and protection against thermal effects (Section 527)	N/A	'
7.14	Band II cables segregated/separated from Band I cables (528.1)	N/A	LIM
7.15	Cables segregated/separated from non-electrical services (528.3)	N/A	LIM
7.16	Termination of cables at enclosures – identify/record numbers and 526):	d locations of items inspected (Sec	ction
.16.1	Connections under no undue strain (526.6)	N/A	~
.16.2	No basic insulation of a conductor visible outside enclosure (526.8)	N/A	~
.16.3	Connections of live conductors adequately enclosed (526.5)	N/A	✓
.16.4	Adequately connected at point of entry to enclosure (glands, bushes etc.) (522.8.5)	N/A	~
7.17	Condition of accessories including socket-outlets, switches and joint boxes (651.2)	N/A	~
7.18	Suitability of accessories for external influences (512.2)	N/A	~
7.19	Single-pole switching or protective devices in line conductors only (132.14.1, 530.3.3)	N/A	•
8.0	I SOLATION AND SWITCHING		
8.1	Isolators (Sections 460; 537):		
3.1.1	Presence and condition of appropriate devices (Section 462; 537.2.7)	N/A	'
3.1.2	Acceptable location – state if local or remote from equipment in question (Section 462; 537.2.7)	N/A	'
3.1.3	Capable of being secured in the OFF position (462.3)	N/A	✓
3.1.4	Correct operation verified (643.10)	N/A	~
3.1.5	Clearly identified by position and/or durable marking (537.2.6)	N/A	~
3.1.6	Warning label posted in situations where live parts cannot be isolated by the operation of a single device (514.11.1; 537.1.2)	N/A	N/A
8.2	Switching off for mechanical maintenance (Section 464; 537.3.2):		
3.2.1	Presence and condition of appropriate devices (464.1; 537.3.2)	N/A	✓
3.2.2	Acceptable location – state if local or remote from equipment in question (537.3.2.4)	N/A	'
3.2.3	Capable of being secured in the OFF position (462.3)	N/A	~
3.2.4	Correct operation verified (643.10)	N/A	~
8.2.5	Clearly identified by position and/or durable marking (537.3.2.4)	N/A	✓
UTCOM Acceptal condition	ble TICK Unacceptable C1 or C2 Improvement C2 Further	verified N/V Limitation LIM appl	lot Nicable N

16/IN	ISPECTION SCHEDULE (CONTINUED)		
Item	Description	Comment	Outcome
8.3	Emergency switching/stopping (Section 465; 537.3.3):		
8.3.1	Presence and condition of appropriate devices (Section 465; 537.3.3; 537.4)	N/A	~
8.3.2	Readily accessible for operation where danger might occur (537.3.3.6)	N/A	~
8.3.3	Correct operation verified (643.10)	N/A	~
8.3.4	Clearly identified by position and/or durable marking (537.3.3.6)	N/A	~
8.4	Functional switching (Section 463; 537.3.1):		
8.4.1	Presence and condition of appropriate devices (537.3.1.1; 537.3.1.2)	N/A	~
8.4.2	Correct operation verified (537.3.1.1; 537.3.1.2)	N/A	'
9.0	CURRENT-USING EQUIPMENT (PERMANENTLY CONNECTED)		
9.1	Condition of equipment in terms of IP rating etc (416.2)	N/A	~
9.2	Equipment does not constitute a fire hazard (Section 421)	N/A	~
9.3	Enclosure not damaged/deteriorated so as to impair safety (134.1.1; 416.2; 512.2)	N/A	~
9.4	Suitability for the environment and external influences (512.2)	N/A	~
9.5	Security of fixing (134.1.1)	N/A	~
9.6	Cable entry holes in ceiling above luminaires, sized or sealed so as to restrict the spread of fire: List number and location of luminaires inspected (separate page) (527.2)	N/A	•
9.7	Recessed luminaires (downlighters):		
9.7.1	Correct type of lamps fitted (559.3.1)	N/A	N/A
9.7.2	Installed to minimise build-up of heat by use of 'fire rated' fittings, insulation displacement box or similar (421.1.2)	N/A	N/A
9.7.3	No signs of overheating to surrounding building fabric (559.4.1)	N/A	N/A
9.7.4	No signs of overheating to conductors/terminations (526.1)	N/A	N/A
10.0	LOCATION(S) CONTAINING A BATH OR SHOWER		
10.1	Additional protection for all low voltage (LV) circuits by RCD not exceeding 30mA (701.411.3.3)	N/A	~
10.2	Where used as a protective measure, requirements for SELV or PELV met (701.414.4.5)	N/A	•
10.3	Shaver sockets comply with BS EN 61558-2-5 formerly BS 3535 (701.512.3)	N/A	N/A
10.4	Presence of supplementary bonding conductors, unless not required by BS 7671:2018 (701.415.2)	N/A	N/A
10.5	Low voltage (e.g. 230 volt) socket-outlets sited at least 3m from zone 1 (701.512.3)	N/A	~
10.6	Suitability of equipment for external influences for installed location in terms of IP rating (701.512.2)	N/A	~
10.7	Suitability of accessories and controlgear etc. for a particular zone (701.512.3)	N/A	~
10.8	Suitability of current-using equipment for particular position within the location (701.55)	N/A	•
11.0	OTHER PART 7 SPECIAL INSTALLATIONS OR LOCATIONS List all other special installation or locations present, if any. (Record separates)	rately the results of particular inspecti	ons)
11.1	N/A	N/A	N/A
11.2	N/A	N/A	N/A
11.3	N/A	N/A	N/A
OUTCON Acceptal condition	ble Troy Unacceptable Garage Improvement Garage Further		Not N/A

17 5	CHEDULE OF CIRCUI	T DETAIL	SA	ND	TE:	ST F	RES	UL	TS																		
Distr	ibution board designation:		I-L	ine	Mair	า Sw	/itch	n Pa	anel			Loc	catio	n:				Work	shop								
				70		Circ condu cs	cuit ctors:	t time S7671	Overcu	rrent pr		/e	RCD	BS7671	(Circuit imp	oedance				nsulation esistance			sured		CD	AFDD
Circuit number and phase	Circuit designation		Type of wiring	Reference Method	Number of points served	Live mm ²		Max disconnect time permitted by BS7671	BS(EN)	Type No	➤ Rating	₹ Capacity	3 Operating ➤ current, I∆n	Maximum Z _S permitted by B		inal circuit ured end t rn (Neutral)	r ₂	(one co	rcuits lumn to ppleted) R ₂	NM Live - Live	ΩM Live - Earth	< Test voltage	♣ Polarity	Maximum meast B earth fault loop impedance 7s	a Disconnection stime	Test button operation	Test button operation
1 L1	Main switch		Α	С	1	35		0.4	60947-	3 N/A	250	25	N/A	0.10	N/A	N/A	N/A	LIM	N/A	N/A	LIM	LIM	'	0.06	N/A	N/A	N/A
1 L2	Main switch		Α	С	1	35	25	0.4	60947-	3 N/A	250	25	N/A	0.10	N/A	N/A	N/A	LIM	N/A	N/A	LIM	LIM	/	0.06	N/A	N/A	N/A
1 L3	Main switch		А	С	1	35	25	0.4	N/A	N/A	250	25	N/A	0.10	N/A	N/A	N/A	LIM	N/A	N/A	LIM	LIM	~	0.07	N/A	N/A	N/A
2 L1	Surge protection		А	В	1	16	10	0.4	60947-	2 N/A	63	25	N/A	0.24	N/A	N/A	N/A	LIM	N/A	N/A	> 200	500	/	0.14	N/A	N/A	N/A
2 L2	Surge protection		Α	В	1	16	10	0.4	60947-	2 N/A	63	25	N/A	0.24	N/A	N/A	N/A	LIM	N/A	N/A	> 200	500	'	0.14	N/A	N/A	N/A
2 L3	Surge protection		Α	В	1	16	10	0.4	60947-	2 N/A	63	25	N/A	0.24	N/A	N/A	N/A	LIM	N/A	N/A	> 200	500	'	0.14	N/A	N/A	N/A
3 L1	D.B. 1 Workshop		Α	В	1	25	16	0.4	60947-	2 N/A	50	25	N/A	0.40	N/A	N/A	N/A	LIM	N/A	N/A	> 200	500	•	0.33	N/A	N/A	N/A
3 L2	D.B. 1 Workshop		Α	В	1	25	16	0.4	60947-2	2 N/A	50	25	N/A	0.40	N/A	N/A	N/A	LIM	N/A	N/A	> 200	500	•	0.33	N/A	N/A	N/A
3 L3	D.B. 1 Workshop (Supply 1)	to D.B.	А	В	1	25	16	0.4	60947-2	2 N/A	50	25	N/A	0.40	N/A	N/A	N/A	LIM	N/A	N/A	> 200	500	~	0.33	N/A	N/A	N/A
	A	В			С				D			E			F			G		Н				0 - 0	ther		
TYP	S FOR Thermoplastic E OF insulated/sheathed RING cables	Thermoplastic cables in metallic conduit		C	ermopla cables i etallic c	n	t	(ermoplastic cables in allic trunking	g n		rmopl ables tallic t	in		Thermor			nosettin A cables	_	Minera insulated o				N	'A		
18 E	OARD CHARACTERIS	STICS																									
	LIES WHEN THE BOARD IS to this distribution board is		NECT	ED		he c N/A	RIG	IN (OF THE I		ALLA of ph			N/A					Con	firmatio	n of sup	a vla	olarit	tv:		N	J/A
Overcu	urrent protective device	BS(EN):				N/A					ing:			N/A	Λ	lominal 'oltage:	N/A	4 v	Zs:			ΆΩ	lp ^r	_		N/	'A kA
RCD	distribution circuit:	BS(EN):				N/A				No	of po	oles:		N/A		ating:	N/A	mA		onnecti	on N/	A ms		sconr ne at		n N/	A ms
	ETAILS OF TEST INS			or as	sset r	numb	ers)												- SILLIC	2. 11.11			- til		21111		
Multi-functional: 228292 Insulation										stance	∋:					N/A			Co	ontinuity	y:			N/A			
Earth	Earth electrode resistance: N/A Earth fault										edan	ce:				N/A			R	CD:				N/A			
20 1	ESTED BY																		`								
Nam	Name: RICHARD CLARK Position: Contracts Manager - Ele											cal		Signat	ture:			C,				Da	te:	2	2/05	/201	9

S	SCHEDULE OF CIRCUIT DETAI																									
Distr	ibution board designation:	I-L	_ine	Mai	n Sv	vitch	n Pa	inel			Lo	catio	n:				Work	shop								
			_		condu	cuit ictors: sa	time S7671	Overcurr	ent p levice		ve	RCD	BS7671		Circuit im	pedance				nsulation esistance			measured loop		CD AF	DD
Circuit number and phase	Circuit designation	Type of wiring	Reference Method	Number of points served	Live	cpc	Max disconnect time permitted by BS7671	BS(EN)	Type No	> Rating	₹ Capacity	g Operating ➤ current, I∆n	ω Maximum Z _S permitted by B		inal circui ured end rn (Neutral)	to end)	(one co	rcuits flumn to ppleted)	Ω Live - Live	M Live - Earth	< Test voltage	♣ Polarity	Maximum meas Β earth fault loop impedance 7s	Disconnection stime	Test button operation Test button	operation
4 L1	D.B. 2 Office	F	D	1	25	70	0.4	60947-2	N/A	50	25	N/A	0.40	N/A	N/A	N/A	LIM	N/A	N/A	> 200	500	~	0.38	N/A	N/A N	/A
4 L2	D.B. 2 Office (Supply to D.B. 2)	F	D	1	25	70	0.4	60947-2	N/A	50	25	N/A	0.40	N/A	N/A	N/A	LIM	N/A	N/A	> 200	500	~	0.38	N/A	N/A N	/A
4 L3	D.B. 2 Office	F	D	1	25	70	0.4	60947-2	N/A	50	25	N/A	0.40	N/A	N/A	N/A	LIM	N/A	N/A	> 200	500	~	0.38	N/A	N/A N	/A
5 L1	D.B. 3 Boiler House	F	С	1	16	72	0.4	60947-2	N/A	40	25	N/A	0.54	N/A	N/A	N/A	LIM	N/A	N/A	> 200	500	~	0.40	N/A	N/A N	/A
5 L2	D.B. 3 Boiler House (Supply to D.B. 3)	F	D	1	16	72	0.4	60947-2	N/A	40	25	N/A	0.54	N/A	N/A	N/A	LIM	N/A	N/A	> 200	500	•	0.40	N/A	N/A N	/A
5 L3	D.B. 3 Boiler House	F	D	1	16	72	0.4	60947-3	N/A	40	25	N/A	0.54	N/A	N/A	N/A	LIM	N/A	N/A	> 200	500	~	0.40	N/A	N/A N	/A
6 L1	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	/A
6 L2	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	/A
6 L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	A/N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	/A
7 L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	AN/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	/A
7 L2	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	/A
7 L3	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	/A
8 L1	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	/A
8 L2	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	/A
8 L3	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	/A
																								<u> </u>		
																								<u> </u>		
TYP	A B S FOR Thermoplastic Thermoplastic E OF insulated/sheathed cables in NG cables metallic conduit			C ermopl cables etallic	in	t	C	D ermoplastic cables in allic trunking			ables			F Thermop /SWA c	plastic		G mosettin 'A cables	-	H Minera nsulated o				0 - 0 N/			

S	CHEDULE OF CIRCUIT DETA	ILS.	AND) TE	ST F	RES	ULT	S																		
Distr	ibution board designation:				D.B.	1					Lo	catio	n:				Work	shop								
					Circ	cuit ctors:	. time S7671	Overcur	rent pr		/e	RCD	BS7671		Circuit im	oedance				nsulation esistance			sured		CD	AFDD
Circuit number and phase	Circuit designation	Type of wiring	Reference Method	Number of points served	Live		Max disconnect time permitted by BS7671	BS(EN)	Type No	. Rating	Capacity	Operating current, I∆n	Maximum Z _S permitted by	(meas	inal circui ured end	r ₂	(one co	rcuits lumn to pleted) R ₂	Live - Live	Δ Live - Earth	Test voltage	Polarity	Maximum measur earth fault loop impedance 7s	Disconnecti	Test button operation	Test button operation
1 L1	Workshop exit flood and centre row lights	D	В	6		1.5		60898	С	10	10	MA N/A	Ω 2.19		(Neutral) N/A		0.42	N/A	MΩ N/A	> 200	500	<i>'</i>	0.75	ms N/A	N/A	N/A
1 L2	Workshop 2x outside rows lights	D	В	7	1.5	1.5	0.4	60898	С	10	10	N/A	2.19	N/A	N/A	N/A	0.54	N/A	N/A	> 200	500	~	0.82	N/A	N/A	N/A
1 L3	Changing rooms, shower and WC lights	А	В	8	1.5	1.5	0.4	61009	В	10	10	30	4.37	N/A	N/A	N/A	1.94	N/A	N/A	> 200	500	•	1.83	29	~	N/A
2 L1	Workshop 2, corridor and roof space lights	A	В	12	1.5	1.5	0.4	60898	С	10	10	N/A	2.19	N/A	N/A	N/A	1.13	N/A	N/A	> 200	500	~	1.46	N/A	N/A	N/A
2 L2	South external wall and cycle shed lights	0	В	9	1.5	1.5	0.4	60898	С	10	10	N/A	2.19	N/A	N/A	N/A	LIM	N/A	N/A	LIM	N/A	N/A	LIM	N/A	N/A	N/A
2 L3	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TYP	S FOR Thermoplastic Thermoplastic E OF insulated/sheathed cables in metallic condu		(C ermopli cables			С	D rmoplastic ables in Ilic trunking			ables			F Thermo /SWA o			G mosettin 'A cables	-	H Mineralinsulated				0 - 0 N/			
APP Supply	BOARD CHARACTERISTICS LIES WHEN THE BOARD IS NOT COI to this distribution board is from:	NNEC	TED	то т	HE C	RIG	IN C		NSTA		TIO	N	3					Con	firmatio	on of sup	oply p	olarit	ty:			~
	urrent protective device BS(EN):		609	47-2	- T	ype I	V/A		Rat	ing:			50		lominal 'oltage:	40	0 V	Zs:			33 Ω	. 1-				01 kA
RCD	BS(EN):	N/A							No	of po	oles:		N/A	F	Rating:	N/A	mA		connecti e at In:	on N/	A ms	Di tir	isconr <u>me at</u>	iectio 5ln:	n N/	/A ms
	DETAILS OF TEST INSTRUME ils of Test Instruments used (state seri		l/or a	sset i	numh	ers):																				
<u>r</u>		2829						tion resis	tance	e:					N/A			C	ontinuit	y:			N/A			
Earth e	electrode resistance:	N/A				Ea	arth	fault loop	impe	edan	ce:				N/A			R	CD:				N/A			
Nam	e: Tim Sowerby	Electricia	n				Signa	ture:			15	, el)		Da	te:	1	4/05	/2019	9						

S	CHEDULE OF CIRCUIT DETAI	LS A	AND				ULT	S																		
Distr	ibution board designation:).B.	1					Lo	catio	n:				Work	shop								
			_			cuit ictors: sa	time S7671	Overcuri	rent p device		/e	RCD	BS7671		Circuit im	oedance	s (Ohms)		sulation esistance			measured loop		CD	AFDD
Circuit number and phase	Circuit designation	Type of wiring	Reference Method	Number of points served	Live	cpc mm ²	Max disconnect time permitted by BS7671	BS(EN)	Type No	> Rating	₹ Capacity	g Operating ➤ current, I∆n	ω Maximum Z _S permitted by B:		inal circui ured end rn (Neutral)			rcuits lumn to pleted)	Ω M Live - Live	Σ Live - Earth	< Test voltage	♠ Polarity	Maximum meas Bearth fault loop impedance 7s	B Disconnection stime	Test button operation	Test button operation
3 L1	Roller shutter door	D	В	1	2.5	2.5	0.4	60898	С	10	10	N/A	2.19	N/A	N/A	N/A	0.03	N/A	> 200	> 200	500	/	0.39	N/A	~	N/A
3 L2	Roller shutter door	D	В	1	2.5	2.5	0.4	60898	С	10	10	N/A	2.19	N/A	N/A	N/A	0.02	N/A	> 200	> 200	500	~	0.39	N/A	•	N/A
3 L3	Roller shutter door	D	В	1	2.5	2.5	0.4	60898	С	10	10	N/A	2.19	N/A	N/A	N/A	0.02	N/A	> 200	> 200	500	✓	0.41	N/A	•	N/A
4 L1	Cycle charging sockets	D	В	2	2.5	1.5	0.4	61009	В	20	10	30	2.19	N/A	N/A	N/A	0.19	N/A	N/A	> 200	500	✓	0.76	18	•	N/A
4 L2	Workshop socket	D	В	1	4	1.5	0.4	61009	В	20	10	30	2.19	N/A	N/A	N/A	0.33	N/A	N/A	> 200	500	✓	0.63	29	•	N/A
4 L3	Changing room socket	Α	В	3	4	1.5	0.4	61009	В	32	10	30	1.37	0.42	0.42	1.03	0.35	N/A	N/A	> 200	500	~	0.54	29	•	N/A
5 L1	Workshop 2 and corridor sockets	Α	В	13	4	1.5	0.4	61009	В	32	10	30	1.37	0.47	0.46	1.73	0.88	N/A	N/A	> 200	500	•	0.88	28	•	N/A
5 L2	Fuel store (Supply to D.B. 4 Fuel Store)	D	D	1	16	16	0.4	60898	В	40	10	N/A	1.09	N/A	N/A	N/A	0.21	N/A	N/A	> 200	500	•	0.48	N/A	N/A	N/A
5 L3	Toilet hand dryer	А	В	1	2.5	1.5	0.4	60898	С	16	10	N/A	1.37	N/A	N/A	N/A	0.55	N/A	N/A	> 200	500	/	0.89	N/A	N/A	N/A
6 L1	Apprentice room sockets	Α	В	6	4	2.5	0.4	61009	В	32	10	N/A	1.37	0.37	0.35	1.01	037	N/A	N/A	> 200	500	'	0.67	29	~	N/A
6 L2	Air conditioning server room	F	С	1	1.5	1.5	0.4	60898	С	10	10	N/A	2.19	N/A	N/A	N/A	0.25	N/A	N/A	> 200	500	•	0.55	N/A	N/A	N/A
6 L3	Workshop sockets	D	В	6	4	2.5	0.4	61009	В	32	10	30	1.37	0.36	0.35	0.22	0.07	N/A	N/A	> 200	500	•	0.35	29	•	N/A
7 L1	16A 3ph socket	D	В	1	4	4	0.4	60898	С	16	10	N/A	1.37	N/A	N/A	N/A	0.01	N/A	> 200	> 200	500	•	0.37	N/A	N/A	N/A
7 L2	16A 3ph socket	D	В	1	4	4	0.4	60898	С	16	10	N/A	1.37	N/A	N/A	N/A	0.06	N/A	> 200	> 200	500	•	0.40	N/A	N/A	N/A
7 L3	16A 3ph socket	D	В	1	4	4	0.4	60898	С	16	10	N/A	1.37	N/A	N/A	N/A	0.05	N/A	> 200	> 200	500	•	0.41	N/A	N/A	N/A
8 L1	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8 L2	Welding socket	D	В	1	6	6	0.4	60898	В	32	6	N/A	1.37	N/A	N/A	N/A	0.06	N/A	N/A	> 200	500	•	0.56	N/A	N/A	N/A
TYP	S FOR Thermoplastic Thermoplastic E OF insulated/sheathed cables in RTNG cables metallic conduit		(C ermoplicables etallic	in	t	С	D rmoplastic ables in Ilic trunking			ables			Thermor	plastic		G mosettin A cables	-	H Minera insulated c				0 - 0 N/			

SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS D.B. 1 Workshop Distribution board designation: Location: Circuit Circuit conductors: BS7671 Insulation Overcurrent protective RCD Circuit impedances (Ohms) RCD AFDD resistance devices Circuit number and phase Reference Method All circuits Ring final circuits only by Z_s by Operating current, I∆n (one column to Test voltage Number of points served Earth Type of wiring (measured end to end) Maximum Z Circuit designation be completed) Capacity Type No Polarity Rating Live срс BS(EN) $R_1 + R$ r₁ rn R_2 r_2 mm² mm² kA mA Ω (Line) (Neutral) $M\Omega$ $M\Omega$ ٧ Ω (cpc) D 8 L3 16A socket В 0.4 60898 В 4 16 6 N/A 2.73 N/A N/A N/A 0.09 N/A N/A > 200 500 0.46 N/A N/A N/A 4 O - Other В С D G CODES FOR Thermoplastic Thermoplastic Thermoplastic Thermoplastic Thermoplastic Thermoplastic Thermosetting Mineral N/A TYPE OF insulated/sheathed cables in cables in cables in cables in /SWA cables /SWA cables insulated cables WIRING cables metallic conduit nonmetallic conduit metallic trunking nonmetallic trunking

S	SCHEDULE OF CIRCL	JIT DETAIL	$_{LS}$	AND	TE	ST F	RES	ULT	S																		
Distr	ibution board designation:				Г).B. :	2					Loc	catio	n:				Plant	room								
				_		Circ condu	cuit ictors:	time S7671	Overcur	rent pr		/e	RCD	BS7671	(Circuit imp	oedance	s (Ohms	s)		nsulation esistance			sured	RC	D	AFDD
Circuit number and phase	Circuit designatio	n	Type of wiring	Reference Method	Number of points served	Live mm ²		Max disconnect time permitted by BS7671	BS(EN)	Type No	➤ Rating	∑ Capacity	g Operating ➤ current, I∆n	Maximum Z_Spermitted by B		inal circuliured end r _n (Neutral)		(one co	rcuits plumn to apleted)	- Live ΩM	Ω Live - Earth	< Test voltage	♣ Polarity	Maximum meası 5 earth fault loop impedance Zs	B Disconnection it ime	Test button operation	Test button operation
1 L1	Right row lights		Α	100	4	1.5	1.0	0.4	61009	С	10	10			N/A	N/A	N/A	1.17	N/A	N/A	> 200	500		1.37			N/A
1 L2	Left row lights		Α	100	4	1.5	1.0	0.4	61009	С	10	10	30	2.19	N/A	N/A	N/A	1.21	N/A	N/A	> 200	500	~	1.44	18	✓	N/A
1 L3	Centre row lights		Α	100	6	1.5	1.0	0.4	61009	С	10	10	30	2.19	N/A	N/A	N/A	1.32	N/A	N/A	> 200	500	~	1.87	18	✓	N/A
2 L1	Canteen and corridor lig	ghts	Α	100	8	1.5	1.0	0.4	61009	С	10	10	30	2.19	N/A	N/A	N/A	1.36	N/A	N/A	> 200	500	~	1.39	19	✓	N/A
2 L2	Meeting, interview and p	orint lights	Α	100	8	1.5	1.0	0.4	61009	С	10	10	30	2.19	N/A	N/A	N/A	1.60	N/A	N/A	> 200	500	1	1.85	28	✓	N/A
2 L3	Ancillary and WC lights		Α	100	8	1.5	1.0	0.4	61009	С	10	10	30	2.19	N/A	N/A	N/A	1.45	N/A	N/A	> 200	500	1	1.80	29	✓	N/A
3 L1	South external wall and lights	4	0.4	61009	С	10	10	30	2.19	N/A	N/A	N/A	1.32	N/A	N/A	> 200	500	~	1.52	29	'	N/A					
3 L2	North external wall ligh	0.4	61009	С	10	10	30	2.19	N/A	N/A	N/A	1.48	N/A	N/A	> 200	500	~	1.37	29	~	N/A						
3 L3	Left front ring main		Α	100	9	2.5	1.5	0.4	61009	В	32	10	30	1.37	0.38	0.35	0.61	0.22	N/A	N/A	> 200	500	~	0.66	29	~	N/A
TYP	S FOR Thermoplastic E OF insulated/sheathed RING cables	B Thermoplastic cables in metallic conduit			C rmopla ables etallic	in	t	С	D rmoplastic ables in Ilic trunking	r		E rmopl ables tallic t	in		F Thermor /SWA c			G mosettin A cables	-	H Minera insulated o				0 - 0 N/			
APP	SOARD CHARACTER LIES WHEN THE BOARD to this distribution board	IS NOT CON							OF THE II		ALLA of ph			3					Con	firmatio	n of sup	oply p	olarit	:y:			~
	urrent protective device e distribution circuit:	ype	N/A		Rat	ing:			50	Λ	lominal 'oltage:	40	0 V	Zs:			38 Ω	lp				21 kA					
RCD										No	of po	oles:		N/A	R	ating:	N/A	mA		onnecti at In:	on N/	A ms		sconr ne at		n N/	'A ms
_	DETAILS OF TEST IN			or as	sset	numh	ers)																				
ľ	unctional:		8292						tion resis	tance	∋:					N/A			Co	ontinuity	y:			N/A			
Earth	electrode resistance:	Ν	N/A				E	arth	fault loop	imp	edan	ce:				N/A			R	CD:				N/A			
	ESTED BY																		,								
Nam	e: Tim Sowe	rby	P	ositio	n:			E	Electricia	n				Signat	ture:			15	rev	_		Da	te:	1	4/05/	′201 [′]	7

S	CHEDULE OF CIRCUIT DETAI	LS A	AND				ULT	S																		
Distr	ibution board designation:				D.B.	2					Loc	catio	n:				Plant	room								
						cuit ictors:	time S7671	Overcurr	ent p		/e	RCD	BS7671	(Circuit im	pedance	s (Ohms)		nsulation esistance			measured loop		CD A	AFDD
Circuit number and phase	Circuit designation	Type of wiring	Reference Method	Number of points served	Live	cpc	Max disconnect time permitted by BS7671	BS(EN)	Type No	> Rating	∑ Capacity	g Operating ➤ current, I∆n	ω Maximum Z _S permitted by B3	(measi	inal circui ured end r _n (Neutral)	to end)		rcuits lumn to pleted)	Ω Live - Live	M Live - Earth	< Test voltage	∢ Polarity	Maximum meas B earth fault loop impedance Zs	g Disconnection g time	Test button operation	Test button operation
4 L1	Left rear ring main	Α	100	6	2.5	1.5	0.4	61009	В	32	10	30	1.37	0.44	0.46	0.77	0.45	N/A	N/A	> 200	500	~	0.75	29	✓	N/A
4 L2	Right front ring main	Α	100	9	2.5	1.5	0.4	61009	В	32	10	30	1.37	0.50	0.48	0.88	0.75	N/A	N/A	> 200	500	~	0.74	29	✓	N/A
4 L3	Right rear ring main	Α	100	6	2.5	1.5	0.4	61009	В	32	10	30	1.37	0.60	0.60	1.04	0.40	N/A	N/A	> 200	500	•	0.85	29	/	N/A
5 L1	Staff room ring main	Α	100	10	2.5	1.5	0.4	61009	В	32	10	30	1.37	0.49	0.50	0.84	0.33	N/A	N/A	> 200	500	~	0.72	29	✓	N/A
5 L2	Kitchen ring main	Α	100	5	2.5	1.5	0.4	61009	В	32	10	30	1.37	0.33	0.33	0.53	0.25	N/A	N/A	> 200	500	/	0.63	29	✓ [N/A
5 L3	Meeting,interview and print sockets	A	100	14	2.5	1.5	0.4	61009	В	32	10	30	1.37	0.41	0.42	0.70	0.48	N/A	N/A	> 200	500	'	0.63	29	1	N/A
6 L1	Store,plant room and corridor sockets	А	100	14	2.5	1.5	0.4	61009	В	32	10	30	1.37	1.04	1.03	1.69	0.77	N/A	N/A	> 200	500	'	0.79	29	•	N/A
6 L2	Kitchen water boiler	Α	100	1	2.5	1.5	0.4	61009	В	32	10	30	1.37	N/A	N/A	N/A	0.37	N/A	N/A	> 200	500	✓	0.75	29	✓	N/A
6 L3	Handdryer 1	Α	100	1	2.5	1.5	0.4	61009	С	32	10	30	0.68	N/A	N/A	N/A	0.31	N/A	N/A	> 200	500	~	0.64	29	✓	N/A
7 L1	Handdryer 2	Α	100	1	2.5	1.5	0.4	61009	С	16	10	30	1.37	N/A	N/A	N/A	0.43	N/A	N/A	> 200	500	'	0.81	29	✓	N/A
7 L2	IT cabinet	Α	100	1	2.5	1.5	0.4	61009	С	16	10	30	1.37	N/A	N/A	N/A	LIM	N/A	N/A	LIM	LIM	N/A	LIM	LIM	N/A I	N/A
7 L3	Car park lights south	F	D	5	4	4	0.4	60898	С	10	10	N/A	2.19	N/A	N/A	N/A	0.71	N/A	N/A	> 200	500	/	1.02	N/A	N/A I	N/A
8 L1	Car park lights north	F	D	6	4	4	0.4	60898	С	10	10	N/A	2.19	N/A	N/A	N/A	0.94	N/A	N/A	> 200	500	~	1.37	N/A	N/A [N/A
8 L2	Security alarm panel	Α	100	1	1.5	1.0	0.4	60898	С	6	10	N/A	3.64	N/A	N/A	N/A	0.4	N/A	N/A	> 200	500	/	0.69	N/A	N/A [N/A
8 L3	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A I	N/A
9 L1	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A I	N/A
9 L2	Fire alarm panel	0	100	1	1.5	1.0	0.4	60898	С	6	10	N/A	3.64	N/A	N/A	N/A	0.44	N/A	N/A	> 200	500	~	0.69	N/A	N/A [N/A
TYP	A B S FOR Thermoplastic Thermoplastic E OF insulated/sheathed cables in RING cables metallic conduit		(C ermopli cables etallic		t	С	D rmoplastic ables in Ilic trunking	1		E rmopl ables tallic t	in		F Thermor /SWA c			G nosettin A cables	_	H Minera nsulated o				0 - 0 N/			

S	CHEDULE OF CIRC	UIT DETAILS	SAND) TE	ST	RES	ULT	S																		
Distr	ibution board designation	:			D.B.	2					Loc	atio	n:				Plant	room								
			_		condu	cuit ictors: sa	time S7671	Overcuri	rent pr devices		/e	RCD	BS7671		Circuit imp	oedance	s (Ohms	s)		nsulation esistance			sured	RC	D	AFDD
Circuit number and phase	Circuit designation	on ged y	Reference Method	Number of points served	Live	cpc	Max disconnect time permitted by BS7671	BS(EN)	Type No	> Rating	∑ Capacity	g Operating ➤ current, I∆n	ω Maximum Z _s permitted by B		inal circui ured end rn (Neutral)		(one co	rcuits plumn to ppleted)	- Live - Live - MΩ	ΩM Live - Earth	< Test voltage	Polarity	Maximum measured B earth fault loop impedance Zs	B Disconnection time	Test button operation	Test button operation
9 L3	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10 L1	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10 L2	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10 L3	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11 L1	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11 L2	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11 L3	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12 L1	Solar PV	C	В	1	2.5	2.5	0.4	60898	С	20	10	N/A	1.09	N/A	N/A	N/A	0.13	N/A	> 200	> 200	500	~	0.49	N/A	N/A	N/A
12 L2	Solar PV	C	В	1	2.5	2.5	0.4	60898	С	20	10	N/A	1.09	N/A	N/A	N/A	0.13	N/A	> 200	> 200	500	~	0.56	N/A	N/A	N/A
12 L3	Solar PV	C	В	1	2.5	2.5	0.4	60898	С	20	10	N/A	1.09	N/A	N/A	N/A	0.13	N/A	> 200	> 200	500	~	0.50	N/A	N/A	N/A
		В		С				D									G		Н				O - Ot	thor		
TYP	A S FOR Thermoplastic E OF insulated/sheathed RING cables	Thermoplastic cables in metallic conduit		ermopl cables etallic	in	t	C	rmoplastic ables in lic trunking	r		E rmopl ables tallic t	in		Thermor			mosettin 'A cables		Minera insulated o				N/.			

S	CHEDULE OF CIRCUIT DETA	ILS	ANE) TE	ST F	RESI	ULT	S																		
Distr	ibution board designation:			D).B. :	3					Lo	catio	n:			E	Boiler	House	Э							
					Circ condu cs	cuit ictors:	: time S7671	Overcur	rent pr		/e	RCD	BS7671		Circuit imp	pedance				nsulation esistance			measured loop		CD	AFDD
Circuit number and phase	Circuit designation	Type of wiring	Reference Method	Number of points served	Live	cpc	Max disconnect time permitted by BS7671	BS(EN)	Type No	➤ Rating	∑ Capacity	g Operating ➤ current, I∆n	Maximum Z_Spermitted by B		inal circuit ured end t rn (Neutral)	r ₂	(one co	rcuits plumn to ppleted) R ₂	RM ΩM	Ω Live - Earth	< Test voltage	✔ Polarity	Maximum meas B earth fault loop impedance Zs	B Disconnection time	Test button operation	Test button operation
1 L1	Lights	0	С	1				60898	С	6			3.64	N/A	N/A		0.13	N/A	N/A	> 200				N/A		
1 L2	Sockets and fault monitor	А	В	3	2.5	1.5	0.4	61009	В	20	10	30	2.19	N/A	N/A	N/A	0.17	N/A	N/A	> 200	500	~	0.41	17	~	N/A
1 L3	Immersion	С	В	1	2.5	1.5	0.4	60898	В	16	10	N/A	2.73	N/A	N/A	N/A	0.07	N/A	N/A	> 200	500	~	0.44	N/A	N/A	N/A
2 L1	Pump 3	D	В	1	1.5	1.5	0.4	60898	В	10	10	N/A	4.37	N/A	N/A	N/A	0.21	N/A	N/A	> 200	500	~	0.55	N/A	N/A	N/A
2 L2	Pump 1	D	В	1	1.5	1.5	0.4	60898	В	10	10	N/A	4.37	N/A	N/A	N/A	0.18	N/A	N/A	> 200	500	•	0.52	N/A	N/A	N/A
2 L3	Pump 2	D	В	1	1.5	1.5	0.4	60898	В	10	6	N/A	4.37	N/A	N/A	N/A	0.17	N/A	N/A	> 200	500	•	0.53	N/A	N/A	N/A
3 L1	Biomass	1	2.5	1.5	0.4	60898	С	20	10	N/A	1.09	N/A	N/A	N/A	0.10	N/A	> 200	> 200	500	~	0.54	N/A	N/A	N/A		
3 L2	Biomass	2.5	1.5	0.4	60898	С	20	10	N/A	1.09	N/A	N/A	N/A	0.09	N/A	> 200	> 200	500	•	0.53	N/A	N/A	N/A			
3 L3	Biomass	1	2.5	1.5	0.4	60898	С	20	10	N/A	1.09	N/A	N/A	N/A	0.09	N/A	> 200	> 200	500	•	0.51	N/A	N/A	N/A		
TYP	S FOR Thermoplastic Thermoplast E OF insulated/sheathed cables in RING cables metallic cond			C ermopla cables i netallic c	n	t	С	D rmoplastic ables in Ilic trunking	r		ables			Thermo /SWA o			G mosettin A cables	-	H Minera insulated o				0 - 0 N/			
APP	BOARD CHARACTERISTICS LIES WHEN THE BOARD IS NOT CO to this distribution board is from:							OF THE 11		ALLA of ph			1					Con	firmatio	n of sur	a vlac	olari	tv:			_
Overcu	urrent protective device		609	47-2	- T	ype ľ	N/A			ing:			40	Δ	lominal	23	0 v	Zs:		·	40 Ω	lp	-			04 kA
RCD	distribution circuit: BS(EN):	N/A				No	of po	oles:		N/A		oltage: ating:	N/A	. mA	Disc	onnection	on N/	A ms	Di		nectic	n N/	'A ms			
	DETAILS OF TEST INSTRUME ils of Test Instruments used (state ser		d/or a	isset r	numh	are).																		21111		
	unctional:	ition resis	stance	∋:					N/A			Co	ontinuity	y :			N/A									
Earth 6	electrode resistance:	N/A						fault loop			ce:				N/A				CD:				N/A			
Nam	e: Tim Sowerby		Positi	on·			ļ	Electricia	n				Signa	ture:			TS	rel			Da	te·	1	4/05	/201	9
Naili	Till Jowerby		. 03111	J11.				_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					Jigi ia	tare.							Da	.0.		-700	, 201	

S	CHEDULE OF CIR	CUIT DETAIL	S AND) TE	ST	RES	ULT	S																		
Distr	ibution board designation	on:			D.B.	3					Loc	catio	า:			E	Boiler	House	;							
					condu	cuit uctors:	time S7671	Overcurre de	ent pr		/e	RCD	57671	(Circuit imp	oedance	s (Ohms	5)		nsulation esistance			sured	RC	DD A	AFDD
Circuit number and phase	Circuit design	nation (Type of wiring Reference Method	Number of points served	Live	cpc	Max disconnect time permitted by BS7671	BS(EN)	Type No	> Rating	∑ Capacity	g Operating ➤ current, IΔn	Maximum Z _S permitted by BS7671	(measu	inal circui ured end rn (Neutral)	r ₂		rcuits dumn to apleted)	Ω Live - Live	M Live - Earth	< Test voltage	♠ Polarity	Maximum measured Θ earth fault loop impedance Zs	M Disconnection	Test button operation	▼ Test button operation
4 L1	Flowtech		D B	1		1.5		60898	В	6	6		7.28	N/A	N/A		0.14	N/A	N/A	> 200					N/A	
4 L2	Pump 5		D B	1	1.5	1.5	0.4	60898	В	6	6	N/A	7.28	N/A	N/A	N/A	0.19	N/A	N/A	> 200	500	•	0.52	N/A	N/A I	1/A
4 L3	Pump 4		D B	1	1.5	1.5	0.4	60898	В	6	6	N/A	7.28	N/A	N/A	N/A	0.09	N/A	N/A	> 200	500	•	0.53	N/A	N/A	1/A
				-																						_
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				<u> </u>																						
				-																						
				-																						
			-	-																						
				lacksquare																						
TYP	S FOR Thermoplastic E OF insulated/sheathed	B Thermoplastic cables in metallic conduit		C ermopla cables netallic	in	it	Ca	D ermoplastic ables in illic trunking	r		ables			F Thermor /SWA c			G mosettin 'A cables		H Minera nsulated o				0 - 01 N/			

Tool store power	S	CHEDULE OF CIRC	UIT DETAI	LS	ANE) TE	ST I	RES	ULT	S																		
Close Clos	Distr	ibution board designation	1:		D.l	B. 4	Fue	el Sto	ore				Loc	catio	n:				Fuel	Store								
Part					_		condu	cuit ictors:	time S7671				/e	RCD	S7671		Circuit imp	pedance							sured		D	AFDD
Tool store power	cuit number d phase	Circuit designati	on	e of wiring	erence Method	mber of nts served	Live	срс	lax disconnect ermitted by B	BS(EN)	ype No	ating	apacity)perating urrent, I∆n	Aaximum Z _S ermitted by B	(meas	ured end	to end)	(one com	olumn to npleted)	- Live	1 1	est voltage	olarity	Aaximum meas arth fault loop	Disconnection	Test button operation	Test button operation
2 Socket fuel store	Cir			Тур	Ref	Nur	mm ²																				'	'
3 Lights fuel store C C 2 1.0 1.0 0.4 60898 B 6 6 30 7.28 N/A N/A N/A 0.28 N/A N/A > 200 500 ✓ 0.72 14 ✓ CODES FOR Thermoplastic Thermoplastic Cables in mount-claffic conduit Thermoplastic Cables in N/A BOARD CHARACTER STICS APPLIES WHEN THE BOARD IS NOT CONNECTED TO THE ORIGIN OF THE INSTALLATION Supply to this distribution board is from: Decrument protective decides BS(EN): 60898 - Type B Rating: 40 A Nominal Voltage: DISConnection time at In: DETAILS OF TEST INSTRUMENTS Details of Test Instruments used (state serial and/or asset numbers): Multi-functional: 228292 Insulation resistance: N/A Earth fault loop impedance: N/A RCD: N/A N/A N/A N/A N/A N/A N/A N/	1	Tool store power		F	D	3	2.5	2.5	0.4	60898	В	20	6	30	2.19	N/A	N/A	N/A	0.13	N/A	N/A	> 200	500	~	0.68	14	/	N/A
CODES FOR Thermoplastic Thermoplastic Cables in Thermoplastic Cables in Cabl	2	Socket fuel store		С	С	4	2.5	1.5	0.4	60898	В	16	6	30	2.73	N/A	N/A	N/A	0.49	N/A	N/A	> 200	500	•	0.70	14	•	N/A
CODES FOR Thermoplastic insulated/sheathed cables in metallic conduit metallic conduit metallic cronduit metallic trunking metallic trunking cables in nonmetallic trunking cables in nonmetallic trunking metallic trunking metallic trunking from cables in nonmetallic trunking from metallic trunking	3	Lights fuel store		С	С	2	1.0	1.0	0.4	60898	В	6	6	30	7.28	N/A	N/A	N/A	0.28	N/A	N/A	> 200	500	•	0.72	14	'	N/A
CODES FOR Thermoplastic insulated/sheathed cables in metallic conduit metallic conduit nonmetallic trunking cables in metallic trunking cables in nonmetallic trunking cables in nonmetallic trunking realistic trunking realistic trunking realistic trunking realistic realistic realistic cables in nonmetallic trunking realistic trunking rea																												
CODES FOR Thermoplastic insulated/sheathed cables in metallic conduit metallic conduit metallic cronduit metallic trunking metallic trunking cables in nonmetallic trunking cables in nonmetallic trunking metallic trunking cables in nonmetallic trunking from metallic trunking																												
CODES FOR Thermoplastic insulated/sheathed cables in metallic conduit metallic conduit metallic cronduit metallic cronduit metallic trunking cables in nonmetallic trunking cables in nonmetallic trunking cables in nonmetallic trunking from metallic trun																												
CODES FOR Thermoplastic insulated/sheathed cables in metallic conduit metallic conduit metallic cronduit metallic trunking metallic trunking cables in nonmetallic trunking cables in nonmetallic trunking metallic trunking cables in nonmetallic trunking from metallic trunking																												
CODES FOR Thermoplastic insulated/sheathed cables in metallic conduit metallic conduit metallic cronduit metallic trunking metallic trunking cables in nonmetallic trunking cables in nonmetallic trunking metallic trunking cables in nonmetallic trunking from metallic trunking																												
APPLIES WHEN THE BOARD IS NOT CONNECTED TO THE ORIGIN OF THE INSTALLATION Supply to this distribution board is from: D.B. 1 - 5 L2 No of phases: 1 Confirmation of supply polarity: N/A mathread in the polarity in the po	TYP	S FOR Thermoplastic E OF insulated/sheathed	Thermoplastic cables in	t		ermopla cables	in	t	С	rmoplastic ables in	r	C	rmopl ables	in					nosettin	-	Minera							
Overcurrent protective device for the distribution circuit: RCD BS(EN):	APP	LIES WHEN THE BOARI	O IS NOT CON	INEC					INC	OF THE I					1					Con	firmatio	n of sur	a vlac	olarit	tv:			·
RCD BS(EN): N/A No of poles: N/A Rating: N/A mA Disconnection time at In: DETAILS OF TEST INSTRUMENTS Details of Test Instruments used (state serial and/or asset numbers): Multi-functional: 228292 Insulation resistance: N/A Continuity: N/A Earth electrode resistance: N/A RCD: N/A	Overcu	urrent protective device			6	0898	3 - T	ype I	В						40	Λ		1 1	0 v			·			-			78 kA
DETAILS OF TEST INSTRUMENTS Details of Test Instruments used (state serial and/or asset numbers): Multi-functional: 228292 Insulation resistance: N/A Continuity: N/A Earth electrode resistance: N/A RCD: N/A		for the distribution circuit:										_	oles:		N/A		_			Disc				Di	isconr	nectio	n N/	A ms
Multi-functional: 228292 Insulation resistance: N/A Continuity: N/A Earth electrode resistance: N/A Earth fault loop impedance: N/A RCD: N/A					l/or a	ısset	numk	pers)													30 1111					JIII.		
																	N/A			Co	ontinuity	y:			N/A			
	Earth e	electrode resistance:		N/A				E	arth	fault loop	imp	edan	ce:				N/A			R	CD:				N/A			
Name: Tim Sowerby Position: Electrician Signature: Date: 14/05/20		e: Tim Sow	erby	F	Positio	on:			[Electricia	n				Signat	ure:			TS.	rely			Da ⁻	te:	1	4/05/	'201'	9

ELECTRICAL INSTALLATION CONDITION REPORT GUIDANCE FOR RECIPIENTS

(to be appended to the Report)

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

- 1. The purpose of this 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 5). 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 a residual current device (RCD) there should be a notice at or near the device stating that it should be tested six-monthly. For safety reasons it is important that this instruction is followed.
- 5. Section 4 (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 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 4.
- 7. For items classified in Section 7 as C1 ('Danger present'), the safety of those using the installation is at risk, and it is recommended that a skilled person or persons competent in electrical installation work undertakes the necessary remedial work immediately.
- 8. For items classified in Section 7 as C2 ('Potentially dangerous'), the safety of those using the installation may be at risk and it is recommended that a skilled person or persons competent in electrical installation work undertakes the necessary remedial work as a matter of urgency.
- 9. Where it has been stated in Section 7 that an observation requires further investigation (code FI) the inspection has revealed an apparent deficiency which may result in a code C1 or C2, and could not, due to the extent or limitations of the inspection, be fully identified. Such observations should be investigated without delay. A further examination of the installation will be necessary, to determine the nature and extent of the apparent deficiency (see Section 6).

 10. For safety reasons, the electrical installation should be re-inspected at appropriate intervals by a
- 10. For safety reasons, the electrical installation should be re-inspected at appropriate intervals by a skilled person or persons, competent in such work. The recommended date by which the next inspection is due is stated in Section 6 of the Report under 'Recommendations' and on a label at or near to the consumer unit/ distribution board.