

Cardiac Protected Electrical Areas

Last Issue Date: 07/03/2019		Type Of Service				
		A	B	C	D	E
Activity						
1	The servicing and inspections of CARDIAC PROTECTED ELECTRICAL AREAS IS TO COMPLY WITH AS3003, Section 8.				Y	
2	Confirm that UPS indicator performance is routinely verified.				Y	
3	Check that all electrical equipment and fittings are in good condition.				Y	
4	<p>LABELLING Check:</p> <p>a) Circuit identification is visible and intact to each RCD.</p> <p>b) Relevant electrical points labelled to identify associated RCDs.</p> <p>c) Circuit identification visible and intact on each LIM.</p> <p>d) Relevant electrical points labelled to identify associated LIMs.</p> <p>e) Overload monitors labelled with alarm setting.</p> <p>f) Socket outlets protected by RCD & labelled 'RCD PROTECTED'.</p> <p>g) Socket outlets protected by isolating transformers labelled 'ISOLATING TRANSFORMER PROTECTED'.</p> <p>h) Socket outlets intended for cleaning purposes labelled 'CLEANING PURPOSES ONLY'.</p>				Y	
5	<p>Ensure Cardiac protected area sign is:</p> <p>a) Visible.</p> <p>b) Labelled with current inspection date.</p> <p>c) Labelled with identity of authorised person.</p> <p>d) Labelled with next test date.</p>				Y	
6	<p>SOCKET OUTLETS</p> <p>Check:</p> <p>a) Socket outlets are coloured according to type of supply.</p> <p>b) If RCD protected, power availability indicator is operational.</p> <p>c) Number of socket outlets and permanently wired electrical equipment protected by LPD does not exceed 12.</p> <p>d) 'ON' indicator light is operational, if present.</p> <p>e) Socket outlets double poled if protected by a transformer isolated supply.</p> <p>f) All socket outlets used for medical electrical equipment or installed below 2.3m protected by LPD.</p> <p>g) Confirm each RCD trips when a fault is applied to each socket outlet that it protects.</p> <p>h) Confirm each socket outlet causes a response on LIM when a fault is applied.</p> <p>i) Confirm that RCDs do not protect socket outlets in another patient location.</p>				Y	
7	<p>EARTHING</p> <p>a) Confirm that the earth pin of all socket outlets are earthed to less than 0.1 Ohm with respect to EP junction node or other appliances.</p> <p>b) Confirm that all permanently wired appliances with conductive parts below 2.3 m are earthed to less than 0.1 Ohm with respect to EP junction node or other appliances.</p>				Y	
8	<p>POTENTIAL DIFFERENCE BETWEEN ACCESSIBLE METAL EQUIPMENT</p> <p>Confirm that the potential difference does not exceed 50 mV between</p>				Y	

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Government of South Australia
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	EP junction and: a) Earthing pins of at least 2 socket outlets in each patient location. b) Reticulated plumbing pipework services. c) Accessible conductive parts of permanently wired electrical equipment that are accessible in patient environment: - Surgical luminaries and patient examination lights. - Pendants. - Imaging systems. - Equipment mounting rails.					
9	Confirm that the RCD trips between 4.5 and 10.5 mA using a slowly rising fault current.				Y	
10	Test RCD tripping times 2 times and record longest time.				Y	
11	Confirm that the RCD supply indicator is operational.				Y	
12	Confirm audiovisual RCD trip indicators are operational (where applicable).				Y	
13	Provide a Statement of Conformity as detailed in Appendix C of AS3003.				Y	
14	Record results in the service report / log book.				Y	

Special Comments and Technical Data

D SERVICE FREQUENCY EITHER 6 OR 12 MONTHLY DEPENDING ON SITE REQUIREMENTS. MAXIMUM INTERVAL IS 12 MONTHLY UNDER AS3003. THE SERVICING ACTIVITIES AND FREQUENCIES ARE TO COMPLY WITH AS3003. OTHER APPLICABLE STANDARDS & LEGISLATION: AS3000, AS4510, AS3123, AS3112 AND THE PUBLIC HEALTH ACT.

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