

Room Name	Linear Accelerator Control Room		Room Number LINAC-CR
Revision	1		
Issue Date	28.06.2021		
BRIEFING			
Briefed Area	21.00 m ²		
Hours of Operation	8am to 6pm, Monday – Friday (extended hours, weekends and/or emergency access may be required)		
Occupancy	2-5 staff		
Acoustics	Acoustic privacy is required		
Remarks			
Description / Special Requirements	<p>The Linear Accelerator Control room is located adjacent to the Treatment Room for remote control of equipment with audio and visual contact with the patient via cameras, speakers and microphones. Each Treatment Room requires a Control Room. Cable pathways for services between the Control room to the Treatment Room must be established and coordinated prior to construction. Radiation shielding is to be as advised by a Radiation Consultant.</p> <p>Additional Considerations:</p> <ul style="list-style-type: none"> Air conditioning to provide comfort conditions; high equipment loads shall be accounted for. The need for and extent of emergency power and UPS must be reviewed to suit site specific requirements. Small UPS units are normally required as a minimum to support control and operating equipment. In some cases, these are supplied with the medical equipment. Other emergency power and UPS requirements to be confirmed based on risk assessment considering the impact of a power outage on patient care/safety. Cable management and the potential for computers to be consolidated into a rack (either within the room or in a dedicated, collocated air conditioned room/cupboard) to be determined at project level. Provision of a height adjustable workstation may be considered depending on local policies and staff accessibility requirements. 		
SERVICES			
Electrical	BODY PROTECTED	<input checked="" type="checkbox"/>	CARDIAC PROTECTED <input type="checkbox"/>
HVAC	AIRCONDITIONING	<input checked="" type="checkbox"/>	AIRCONDITIONING: hepa filtered <input type="checkbox"/>
	AIRCONDITIONING: positive pressure	<input type="checkbox"/>	AIRCONDITIONING: negative pressure <input type="checkbox"/>
	EXHAUST: room exhaust	<input type="checkbox"/>	VENTILATION <input type="checkbox"/>
Lighting	LIGHTING: colour corrected	<input type="checkbox"/>	LIGHTING: dimmable <input checked="" type="checkbox"/>
	LIGHTING: downlights	<input type="checkbox"/>	LIGHTING: downlights, dimmable <input type="checkbox"/>
	LIGHTING: fluorescent/LED, downlights	<input type="checkbox"/>	LIGHTING: fluorescent/LED, flush with ceiling, tamper proof <input type="checkbox"/>
	LIGHTING: fluorescent/LED, general	<input checked="" type="checkbox"/>	LIGHTING: indirect <input type="checkbox"/>
Security / Nurse Call	NURSE CALL SYSTEM	<input type="checkbox"/>	

Room Fabrics

AusHFG code	Description	Comment
CLTI-002	CEILING: acoustic, drop-in tiles, 600 x 1200	
CLCN-009	CORNICE: wall trim fixing	
DWSC-003	DOOR: 910mm c/o, single leaf, solid core, paint	optional
DWPR-001	DOOR PROTECTION: kickplate, to 300 AFFL	optional
FLVY-007	FLOOR FINISH: vinyl, seamless, coved, standard slip resistant	
FLSK-010	SKIRTING: vinyl, floor vinyl coved, 150H, prefinished	

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AusHFG code	Description	Comment
WLWA-004	WALL FINISH: paint, acrylic, washable	

Fittings, Furniture and Equipment (FF&E) Items

AusHFG code	Description	Group	Qty	Comment
MMRA-006	ACCESS PANEL: medical physics port	1	1	
FIJO-031	BENCH: 750D, open under, laminate finish	1	2	
FIHR-080	BRACKET: for bench, 750D, wall mounted	1	5	legs are also acceptable, quantity to be confirmed to achieve required support, ensure location does not impact leg clearance at workstations
FIHR-067	BRACKET: for monitor, wall mounted, articulated, adj height	2	2	to patient observation monitors
FIJO-212	BULKHEAD: joinery	1	1	plasterboard bulkhead is also acceptable
MMRA-007	CABINET: linear accelerator computer cabinet	3	1	size, configuration and location to be confirmed by vendor
FIJO-099	CAC: cable access cap	3	8	
FQBS-018	CHAIR: office, ergonomic	3	5	
FQGE-005	CLOCK: analogue, battery operated	3	1	
ITNE-071	COMPUTER: desktop, with dual display screens	3	2	for access to local network including patient records and images for planning and reporting
MMRA-009	COMPUTER: linear accelerator control system PC	3	6	quantity to be confirmed based on vendor and equipment requirements; current provision allows for 1 x linear accelerator control system, 1 x record and verify system, and 2-4 x imaging and patient set up systems (e.g. gating and patient positioning).
MMRA-010	CONSOLE: control, linear accelerator	3	1	
FIJO-145	CUPBOARD: wall mount, double door, adj shelves, lockable	1	5	
ITNE-074	DISPLAY SCREEN: patient observation	3	2	
ITNE-067	KEYBOARD: keyboard and mouse only	3	1	for patient observation cameras to control pan, tilt and zoom; may be custom control depending on camera system
ITAV-014	MICROPHONE: surface mounted, gooseneck	2	1	
FIJO-213	PANEL: joinery carcass end	1	2	
ITAV-057	SPEAKER: ceiling recessed	2	1	may be bench mounted, or integrated with microphone
ITNE-049	TELEPHONE: handset, desktop	3	1	
FIBM-019	WHITEBOARD: fixed, magnetic	2	1	

Engineering Services

AusHFG code	Description	Group	Qty	Comment
ITSE-006	BUTTON: duress, fixed	1	1	

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AusHFG code	Description	Group	Qty	Comment
ELBO-001	BUTTON: emergency stop	1	1	may be integral to linear accelerator control console
ITCL-004	BUTTON: nurse call, emergency	1	1	
ITCL-008	BUTTON: nurse call, staff assist	1	1	
ELGP-208	GPO: double, wall mounted	1	10	
ELGP-223	GPO: emergency power, double, wall mounted	1	14	quantity to suit computer and display screen requirements
ELGP-106	GPO: single, special, for equipment	1	1	to linear accelerator computer cabinet
ITIN-026	OUTLET: data, double RJ45, wall mounted	1	3	
ITIN-036	OUTLET: data, triple RJ45, wall mounted	1	8	quantity to suit computer and display screen requirements
ITIN-055	OUTLET: data, USB, wall mounted	1	1	connection for music to bunker
ELPR-006	RCD: residual current device	1	3	
ELBO-012	SWITCH: light, dimmer	1	1	