

Room Name	PET-CT Imaging Room		Room Number	PET-CT
Revision	2			
Issue Date	24.06.2022			
BRIEFING				
Briefed Area	50.00 m ²	<div>The use of nitrous oxide in operating theatres, procedural suites and emergency departments is declining due to a range of clinical and environmental concerns. It is, however, still commonly used in maternity and paediatric services. With the exception of maternity and paediatric services, reticulated nitrous oxide and associated scavenge outlets are to be considered optional. Where found to be clinically necessary, provision of nitrous oxide via piped outlets or via cylinder is to be determined at a project level, based on an assessment of expected clinical needs, security of gas sources, operational considerations such as monitoring and measurement of usage, and management of leakage.</div>		
Hours of Operation	Available 24 Hours			
Occupancy	1 patient; up to 3 staff assisting			
Acoustics	Acoustic privacy is required			
Remarks				
Description / Special Requirements	<div>The PET-CT Imaging Room provides the area and facilities for Positron Emission Tomography-Computed Tomography (PET/CT) scanning procedures with a Control Room and Equipment Room (as required) located nearby. It is not essential that the control is directly adjacent to the Imaging Room where patients are monitored via observation cameras, however ready access is required to attend to patient needs. If the Control Room is adjacent an observation window may be provided and shielding requirements will need to be confirmed. Cable pathways for services between the Control Room, Equipment Room and Imaging Room must be established and coordinated prior to construction and developed based on vendor requirements. Equipment is to be installed to manufacturer's specifications with sufficient clearances for maintenance access and support structure as required.</div> <div>The PET-CT Imaging Room must be adequately shielded to ensure that radiation doses to surrounding areas do not exceed radiation dose limits and satisfy design/dose constraints. Radiation shielding is to be as advised by a qualified Radiation Consultant to suit the practice, workload and equipment procured, and all shielding on the Standard Component is indicative only.</div> <div>Additional Considerations:</div> <ul style="list-style-type: none">• Configuration of medical gases is to be confirmed to meet clinical requirements such as the provision of anaesthetic services.• Dimmable lights are recommended and are to be placed to avoid glare to patients.• Back lit ceiling artwork may be installed for patient comfort.• 'X-ray in Use' lights are required outside each entry door.• Laser marker system for procedure planning may be required subject to model of care and equipment selected.• Structural assessment is required to ensure the floor will be rigid with no vibration and will accommodate the weight of the PET-CT unit.• Room temperature and humidity control is required. Temperature requirements for equipment are to be confirmed by the vendor, including requirement for circulated cooling water.• The need for and extent of emergency power and UPS must be reviewed to suit site specific requirements. UPS power is required to the PET-CT scanning and control 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.• An optional laser system for patient positioning and procedure planning has been indicated and may be provided subject to service requirements. A mix of respiratory gating, surface guidance, motion management and/or patient position technologies may be considered depending on clinical/service requirements (e.g. for radiation therapy planning). The provision of these technologies is to be confirmed by the project and may have additional requirements including additional power/data, water cooling, heat load, possible increased set down, increased number of trenches/conduits, space requirements for computer cabinets in control room and additional penetrations through the suspended ceiling. Requirements to be confirmed with vendors.• Consideration needs to be given to the clearances of equipment and replacement part delivery routes.			
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"/>

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Lighting

LIGHTING: colour corrected



LIGHTING: dimmable



LIGHTING: downlights



LIGHTING: downlights, dimmable



LIGHTING: fluorescent/LED, downlights



LIGHTING: fluorescent/LED, flush with ceiling, tamper proof



LIGHTING: fluorescent/LED, general



LIGHTING: indirect


Security / Nurse Call

NURSE CALL SYSTEM


Room Fabrics

AusHFG code	Description	Comment
CLFS-006	CEILING: plasterboard, flush set, suspended, paint, washable	
CLCN-008	CORNICE: square set flush between wall and ceiling, paint	
DWSC-034	DOOR: 1800mm c/o, double leaf, solid core, lead shielding, paint	automated
DWSC-005	DOOR: 910mm c/o, single leaf, solid core, lead shielding, paint	automated
DWPR-005	DOOR PROTECTION: protection plate to 900 AFFL	
DWPR-010	DOOR PROTECTION: to door frame, PVC, prefinished	optional
FLVY-007	FLOOR FINISH: vinyl, seamless, coved, standard slip resistant	floor finish must be minimum slip rating R10; Pendulum P3 or agreed equivalent to extend under basin
FLSK-010	SKIRTING: vinyl, floor vinyl coved, 150H, prefinished	
WLWA-004	WALL FINISH: paint, acrylic, washable	
WLWA-007	WALL FINISH: splashback	
WLWA-025	WALL FINISH: vinyl, to 1200 AFFL	
WLWA-020	WALL FINISH: vinyl, to 1500 AFFL	

Fittings, Furniture and Equipment (FF&E) Items

AusHFG code	Description	Group	Qty	Comment
MMGE-002	ADAPTER: suction	3	2	on services panel
HYBA-010	BASIN: handwash, Type B	1	1	
FIJO-059	BENCH TOP: 600D, joinery under, laminate finish	1	1	
FQCW-005	BIN: waste, clinical, 20L	3	1	
FQCW-016	BIN: waste, general, 20L	3	1	to basin
FIHR-077	BRACKET: for observation camera, ceiling mounted	2	2	
FIHR-078	BRACKET: for observation camera, wall mounted	2	1	
FIHR-019	BRACKET: for suction bottle	2	2	
FIJO-212	BULKHEAD: joinery	1	1	
ITCL-012	CAMERA: observation	2	3	
FQBS-030	CHAIR: visitor, patient	3	1	
ITCL-014	CLOCK: analogue, electric	1	1	
FIJO-218	CUPBOARD: tall, double door, adj shelves, lockable, heavy duty	1	1	
FIJO-136	CUPBOARD: underbench, double door, adj shelves, lockable	1	3	
FIJO-141	CUPBOARD: underbench, single door, adj shelves, lockable	1	1	

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AusHFG code	Description	Group	Qty	Comment
MMMI-207	DEVICE: imaging, PET/CT	2	1	
FIDI-001	DISPENSER: alcohol based hand rub	2	1	
FIDI-014	DISPENSER: disposable glove	2	1	near door
FIDI-025	DISPENSER: paper/hand towel	2	1	to basin
FIDI-030	DISPENSER: soap	2	1	to basin
FIDI-031	DISPENSER: soap antiseptic	2	1	to basin
MGFP-002	FLOWMETER: medical air	3	1	on services panel
MGFP-004	FLOWMETER: oxygen	3	2	on services panel
FIHR-092	HOOK: anchor, patient ladder	1	1	
FIHR-030	HOOK: equipment, on mounting plate	1	1	
MMMI-107	INJECTOR: contrast, CT, ceiling mounted	2	1	also may be mobile or wall mounted
MMGE-045	IV STAND: mobile	3	1	may be ceiling mounted
MMMI-218	LASER: positioning lights, PET/CT	2	1	
MMGE-048	LINEN CARRIER: dirty, single	3	1	
MMMI-209	PHANTOM: PET/CT	2	1	stored within shielded custom joinery
MMBE-042	SLIDE: patient	3	1	
MMGE-091	SPHYGMOMANOMETER: portable	3	1	
MMGE-100	SUCTION BOTTLE	3	2	
MMMI-217	TABLE: patient, fixed, PET/CT	2	1	
HYTP-037	TAPWARE: mixer, elbow levers	1	1	
ITNE-053	TELEPHONE: handset, wall mount, handsfree	3	1	
MMGE-142	TROLLEY: sharps bin	3	1	
MMMI-377	WARMER: contrast	3	1	optional

Engineering Services

AusHFG code	Description	Group	Qty	Comment
ELPR-001	BODY PROTECTED ELECTRICAL AREA	1	1	
ITCL-004	BUTTON: nurse call, emergency	1	1	on services panel + indicator button & light
ITCL-008	BUTTON: nurse call, staff assist	1	1	on services panel + indicator button & light
MEGE-007	CONTROL PANEL: temperature	1	1	alarm for temperature range
ITSE-025	DOOR RELEASE: access control, remote activation	1	1	
ITIN-143	FLOORBOX: for power, data, AV, flush mounted	1	2	
ELGP-203	GPO: double, in floorbox	1	4	
ELGP-208	GPO: double, wall mounted	1	3	
ELGP-223	GPO: emergency power, double, wall mounted	1	2	to walls
ELGP-122	GPO: emergency power, single, on services panel	1	4	on service panel
ELGP-123.1	GPO: emergency power, single, wall mounted (V)	1	1	

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AusHFG code	Description	Group	Qty	Comment
ELGP-101	GPO: single, ceiling mounted	1	3	1-laser positioning light
ELGP-109	GPO: single, wall mounted	1	2	1-clock
ELGP-110	GPO: single, wall mounted, cleaner	1	1	
ITSE-029	INTERCOM: audio, wall mount	1	1	handsfree to control room
LIFX-038	LIGHT: backlit feature panels	1	2	
LIFX-002	LIGHT: illuminated sign, "X-Ray in Use"	1	2	to outside of all doors to room, auto on when modality is in use, vendor to provide signal wiring to light
ITIN-025	OUTLET: data, double RJ45, on services panel	1	1	
ITIN-026	OUTLET: data, double RJ45, wall mounted	1	2	on wall near PET-CT unit
ITIN-011	OUTLET: data, single RJ45, ceiling mounted	1	2	
ITIN-016	OUTLET: data, single RJ45, wall mounted	1	3	
MGAS-022	OUTLET: medical air (MA), on services panel	1	1	on services panel
MGAS-032	OUTLET: nitrous oxide (N2O), on services panel	1	1	optional, on services panel
MGAS-042	OUTLET: oxygen (O2), on services panel	1	2	on services panel
MGAS-053	OUTLET: scavenge, on services panel	1	1	optional, on services panel
MGAS-062	OUTLET: suction, on services panel	1	2	on services panel
ELPR-006	RCD: residual current device	1	1	on services panel
MMSP-026	SERVICES PANEL: wall mounted	1	1	patient services
WLSH-004	SHIELDING: lead lining	1	1	to room doors, walls, (ceiling) as required by radiation consultant design and specification
ELBO-012	SWITCH: light, dimmer	1	1	number determined by number of doors
ELPR-007	UPS: status indicator	1	1	on service panel