COMPLIANCE CHECKLIST

IP15_Imaging Services

The following checklist is intended to be used in the plan review applications for health care facilities submitted to the Massachusetts Department of Public Health. This checklist summarizes and references the applicable requirements from the Licensure Regulations and the 2018 Edition of the FGI Guidelines for Design and Construction of Hospitals. Applicants must verify compliance of the plans submitted to the Department with all referenced requirements from the Licensure Regulations and FGI Guidelines when completing this Checklist. A separate Checklist must be completed for each nursing unit, hospital or clinic department, or clinical suite.

Other jurisdictions, regulations and codes may have additional requirements which are not included in this checklist, such as:

- NFPA 101 Life Safety Code (2012) and applicable related standards contained in the appendices of the Code
- State Building Code (780 CMR)
- Accreditation requirements of The Joint Commission
- CDC Guidelines for Preventing the Transmission of Mycobacterium Tuberculosis in Health Care Facilities
- USP 797 & Regulations of the Massachusetts Board of Registration in Pharmacy
- Occupational Safety & Health Standards (OSHA)
- Accessibility Guidelines of the Americans with Disabilities Act (ADA)
- Architectural Access Board Regulations (521 CMR)
- Local Authorities having jurisdiction.

Instructions:

- 1. All requirement lines must be completed according to the following instructions and included in the plan submissions for Self-Certification Process or Abbreviated Review Process.
- 2. This checklist must be completed by the project architect or engineer based on the design actually reflected in the plans at the time of completion of the checklist.
- 3. Each requirement line (____) of this Checklist must be completed exclusively with one of the following marks, unless otherwise directed in the checklist. If a functional space is not affected by a renovation project, the mark "E" may be indicated on the requirement line (____) before the name of the functional space (associated requirements on indented lines below that name, or associated MEP requirements do not have to be completed in this case). If more than one functional space serves a given required function (e.g. patient room or exam room), that clarification should be provided in the Project Narrative, and the requirement lines are understood to only address the functional spaces that are involved in the project.
- **X** = Requirement is met, for new space, for renovated space, or for existing direct support space for an expanded service.
- E = Requirement relative to an existing suite or area that has been licensed for its designated function, is not affected by the construction project and does not pertain to a required direct support space for the specific service affected by the project. "E" must not be used for an existing required support space associated with a new patient care room or area.
- = Check box under section titles or individual requirements lines for optional services or functions that are not included in the project area.
- W = Waiver requested for specific section of the Regulations or FGI Guidelines, where hardship in meeting requirement can be demonstrated (a Physical Plant Waiver Form must be completed for each waiver request). An explicit floor plan or plan detail must be attached to each waiver request.
- 4. All room functions marked with "X" must be shown on the plans with the same name labels as in this checklist.
- 5. Mechanical, electrical & plumbing requirements are only partially mentioned in this checklist. The relevant section of the FGI Guidelines must be used for project compliance with all MEP requirements and for waiver references.
- 6. Oxygen, vacuum, medical air, waste anesthesia gas disposal and instrument air outlets (if required) are identified respectively by the abbreviations "OX", "VAC", "MA", "WAGD" & "IA".
- 7. Requirements referenced with "FI" result from formal interpretations from the FGI Interpretations Task Group.
- 8. The location requirements including asterisks (*) refer to the definitions of the Glossary in the beginning section of the FGI Guidelines and reproduced in this checklist.

Facility Name:	DoN Project Number: (if applicable)
Facility Address:	
Satellite Name: (if applicable)	Building/Floor Location:
Satellite Address: (if applicable)	
	Submission Dates:
Project Description:	Initial Date:
	Revision Date:

Building Systems Requirements

2.2-3.4 **IMAGING SERVICES**

2.2-3.4.1.2 Table 2.2-2	Class 1 Imaging Room (for X-ray, fluoroscopy, mammography, CT scanner, ultrasound, MRI & other imaging modalities that may use natural orifice entry & do not pierce or penetrate natural protective membranes) □ check if not included in project □ room is an unrestricted area □ accessed from unrestricted area
	Flooring: cleanable & wear-resistant for the location; stable, firm & slip-resistant
	Wall Finishes: washable
2.2-3.4.2.3(1)	Ceiling: cleanable with routine housekeeping equipment handwashing station
2.2-3.4.1.2 Table 2.2-2	 Class 2 Imaging Room: (for diagnostic & therapeutic procedures such as coronary, neurological, peripheral angiography & EP procedures) □ check if not included in project □ room is a semi-restricted area □ accessed from unrestricted area or semi-restricted area
	Flooring: cleanable & wear-resistant for the location; stable, firm & slip-resistant monolithic floor with integral coved wall base carried up the wall min. 6" Wall Finishes: washable, free of fissures, open joints or crevices Ceiling: smooth & without crevices, scrubbable, non-absorptive, non-perforated; capable of withstanding cleaning chemicals lay-in ceiling check if not included in project gasketed or each ceiling tile weighs at least one pound per square foot no perforated, tegular, serrated, or highly textured tiles

Ventilation:	
Min. 6 air changes per hour	Table 7.1
Power:	
Min. 8 receptacles in total	Table 2.1-1
Min. 4 receptacles on each	
lateral side of imaging gantry	
Nurse Call System:	
Staff assistance station	Table 2.1-2
Emergency call station	
Medical Gases:	Table 2.1-3
1 OX, 1 VAC	+ Errata

Ventilation: Min. 15 air changes per hour Positive pressure No recirculating room units	Table 7.1
Power: Min. 12 receptacles in total Min. 8 receptacles convenient to table placement Min. 1 receptacle on each wall	Table 2.1-1
Nurse Call System: Staff assistance station Emergency call station Medical Gases: 1 OX, 2 VAC, 1 MA	Table 2.1-2 Table 2.1-3

Building Systems Requirements

2.2-3.4.2.3(2)	Handwashing Station or Hand Scrub Facilities:		
(a)	handwashing station directly accessible* to Class 2 imaging room		
(b)	or hand scrub facilities hand scrub position directly outside entrance to Class 2 imaging room		
2.1-2.8.6.3	scrub station does not restrict min. required corridor width		
2.2-3.4.1.2 Table 2.2-2	Class 3 Imaging Room (for invasive procedures, i.e. any Class 2 procedure during which the patient will require physiological monitoring & is anticipated to require active life support) check if not included in project room is a restricted area accessed from semi-restricted area		
	Flooring: cleanable and wear-resistant for the location; stable, firm & slip-resistant monolithic floor with integral coved	Ventilation: Min. 20 air changes per hour Positive pressure No recirculating room units Power:	Table 7.1
	wall base carried up the wall min. 6" Wall Finishes: washable; free of fissures, open joints, or crevices Ceiling:	 Min. 36 receptacles in total Min. 16 receptacles convenient to patient table Min. 2 receptacles on each wall Nurse Call System: 	Table 2.1-1
	monolithic, scrubbable, capable of withstanding cleaning & disinfecting chemicals, gasketed access openings	Staff assistance station Emergency call station Medical Gases: 2 OX, 5 VAC, 1 MA, 1 WAGD	Table 2.1-2 Table 2.1-3 + Errata
2.2-3.4.2.3(3)	Hand Scrub Facilities: hand scrub facilities provided directly outside entrance to Class 3 imaging rooms		
2.1-2.8.6.3	placement of scrub station does not restrict min. required corridor width		
2.2-3.4.2.1(3)	·		
+ Errata	Space Requirements:		
2.2-3.3.3.2(3)	(may include minor wall encroachments of max. 12" deep by max. 10% of wall length) uses portable imaging equipment or surgical procedures that require		
	additional personnel or large		
(a)	equipment sized to accommodate personnel & equipment planned to be in room during procedures		

Building Systems Requirements

	Arc	nitectural Requirements	Building Systems Requirement
(b)		New Construction & Major Renovations: min. clear floor area 600 sf min. clear dimension 20'-0" or	
(b)		Limited Renovations: min. clear floor area 500 sf min. clear dimension 20'-0"	
2.2-3.4.1.3		Radiation Protection: check if not included in project (only if imaging equipment does not emit ionizing radiations) certified radiation physicist representing owner has specified type, location & amount of radiation protection to be installed in accordance with layout & equipment selections specifications of radiation shielding have been submitted to DPH Radiation	
(1)		Control Program shielded control alcove or room check if <u>not</u> included in project (only if radiation-emitting imaging equipment is portable)	
2.2-3.4.3		MPUTED TOMOGRAPHY (CT) FACILITIES check if not included in project	
2.2-3.4.3.1	or or	CT scanner room meets above requirements for Class 1 imaging rooms CT scanner room meets above requirements for Class 2 imaging rooms CT scanner room meets above requirements for Class 3 imaging rooms	
2.2-3.4.3.2 2.2-3.4.1.3(1) (a)	_	Shielded control alcove or room Space Requirements: sized & configured according to	
(c)		manufacturer's recommendations shielded view window designed to provide full view of examination/ procedure table & patient at all times including full view of patient during imaging activities (use of additional closed-circuit video monitoring permitted)	
(d) (e)		 control room enclosed with walls & door check if <u>not</u> included in project (only for Class 1 imaging room & where imaging room is not required to be under positive or negative pressure) 	

Building Systems Requirements

2.2-3.4.2.2 (1)	Space Requirements: imaging rooms are sized & configured to comply with manufacturer's recommendations for installation service & maintenance installation plans from manufacturer have been submitted to DPH Plan Review
(2)(a)	min. clearance 4'-0" on all circulating sides of patient table/bed/couch gantry or assembly
2.2-3.4.2.4(d)	Structural Support: floor & if applicable ceiling structures in imaging rooms designed to support weight of imaging equipment as well as other fixed & movable ancillary equipment
2.2-3.4.3.3	
2.2-3.4.2.5	System component roomcheck if not included in project
(1)	Location:
(a)	accessed only from
(-)	unrestricted or semi-restricted space outside imaging room
(2)	Space Requirements:
(2)	room sized to accommodate
	following as indicated by imaging
	equipment manufacturer:
(a)	transformers
(b)	power distribution
· /	equipment
(c)	power conditioning/UPS
` '	equipment
(d)	computers
(e)	associated electronics &
	electrical gear
2.2-3.4.4.2	RADIOGRAPHY ROOM
	□ check if <u>not</u> included in project
2.2-3.4.3.1	Radiography room meets above
	requirements for Class 1 imaging rooms
2.2-3.4.3.2	gg
2.2-3.4.1.3(1)	Shielded control alcove or room
(a)	Space Requirements:
	sized & configured according to
	manufacturer's recommendations
(c)	shielded view window designed to
	provide full view of examination/
	procedure table & patient at all times
	including full view of patient during
	imaging activities (use of additional
	closed-circuit video monitoring permitted)

Building Systems Requirements

2.2-3.4.2.2 (1)	Space Requirements: imaging rooms are sized & configured to comply with manufacturer's recommendations for installation service & maintenance installation plans from manufacturer have been submitted to DPH Plan Review
(2)(a)	min. clearance 4'-0" on all circulating sides of patient table/bed/couch gantry or assembly
2.2-3.4.2.4(d)	Structural Support: floor & if applicable ceiling structures in imaging rooms designed to support weight of imaging equipment as well as other fixed & movable ancillary equipment
2.2-3.4.2.5	System component roomcheck if not included in project
(1)	Location:
(a)	accessed only from unrestricted or semi-restricted
(2)	space outside imaging room Space Requirements: room sized to accommodate following as indicated by imaging
(a) (b)	equipment manufacturer: transformers power distribution
(c)	equipment power conditioning/UPS
(d)	equipment computers
(e)	associated electronics & electrical gear
2.2-3.4.4.2(2)	Handwashing station
2.2-3.4.4.3	FLUOROSCOPY ROOM ☐ check if not included in project
2.2-3.4.3.1	Fluoroscopy room meets above requirements for Class 1 imaging rooms or Fluoroscopy room meets above
	requirements for Class 2 imaging rooms
	or Fluoroscopy room meets above
222422	requirements for Class 3 imaging rooms
2.2-3.4.3.2	

Building Systems Requirements

2.2-3.4.1.3(1) (a)	Shielded control alcove or room Space Requirements: sized & configured according to manufacturer's recommendations
(c)	shielded view window designed to provide full view of examination/ procedure table & patient at all times including full view of patient during imaging activities (use of additional closed-circuit video monitoring permitted)
(d) (e)	 control room enclosed with walls & door check if <u>not</u> included in project (only for Class 1 imaging room & where imaging room is not required to be under positive or negative pressure)
2.2-3.4.2.2 (1)	Space Requirements: imaging rooms are sized & configured to comply with manufacturer's recommendations for installation service & maintenance installation plans from manufacturer have been submitted to DPH Plan Review
(2)(a)	min. clearance 4'-0" on all circulating sides of patient table/bed/couch gantry or assembly
2.2-3.4.2.4(d)	Structural Support: floor & if applicable ceiling structures in imaging rooms designed to support weight of imaging equipment as well as other fixed & movable ancillary equipment
2.2-3.4.3.3 2.2-3.4.2.5	System component room ☐ check if not included in project
(1) (a)	Location: accessed only from unrestricted or semi-restricted space outside imaging room
(2)	Space outside imaging room Space Requirements: room sized to accommodate following as indicated by imaging equipment manufacturer:
(a) (b)	transformers power distribution
(c)	equipment power conditioning/UPS
(d) (e)	equipment computers associated electronics & electrical gear

Building Systems Requirements

2.2-3.4.4.3	
(1)	Class 1 Fluoroscopy Room: check if not included in project separate toilet room handwashing station directly accessible* from each dedicated Class 1 fluoroscopy room or combination radiography/ fluoroscopy room patients are able to leave toilet room without reentering fluoroscopy room
2.2-3.4.4.4	MAMMOGRAPHY ROOM ☐ check if not included in project
2.2-3.4.3.1	 Mammography room meets above requirements for Class 1 imaging rooms Mammography meets above requirements for Class 2 imaging rooms
2.2-3.4.4.4(1) (a) 2.2-3.4.4.4(2)	means to prevent views into mammography room by the public or other patients
2.2-3.4.4.4(3)	Handwashing station
2.2-3.4.4.4(4)	 Changing rooms for mammography patients check if <u>not</u> included in project (only if appropriate area for changing is provided in each mammography room) immediately accessible* to waiting area immediately accessible* to imaging rooms
2.2-3.4.10.3(2)	each room includes seat or bench &
2.2-3.4.10.3(3)	provisions for hanging patient clothing & securing valuables located either in patient changing room or in shared secured storage
2.2-3.4.4.1(3) (b)	Radiation Protection: mammography machines has built-in shielding for operator: letter from certified radiation physicist approving shielding for operator or shielded control alcove

Building Systems Requirements

2.2-3.4.5	MAGNETIC RESONANCE IMAGING (MRI) FACILITIES	
	☐ check if <u>not</u> included in project	
2.2-3.4.5.1 (1)	Planning Configuration of MRI Suite: conforms to 4-zone screening & access control protocols identified by American College of Radiology	
	Zone I: all areas that are freely accessible to the general public	
	Zone II: interface between the publicly accessible uncontrolled Zone I & strictly controlled Zone III	
	(space for screening questions, patient histories, medical	
	insurance questions) Zone III : no free access by	
	unscreened persons or non-MRI personnel due to interactions	
	between persons or equipment & MRI scanner	
	Zone IV: MRI scanner room	
	where access must be supervised by MRI personnel	
(2)	MRI suite as well as spaces around, above & below designed to prevent	
	unscreened individuals from entering	
	5-gauss volume around MRI equipment	
(3) (a)	Specific Support Areas for MRI Suite: space for patient interviews & clinical	
	screening	
(c) (p)	space for physical screening ferromagnetic (only) detection &	
(d)	warning systems access controls	
(e)	space to accommodate site-specific clinical & operational requirements	
	such as image-guided procedures emergent imaging or general	
	anesthesia support	
(f)	☐ check if <u>not</u> included in project space for containment of non-MRI-safe	
	objects outside restricted MRI safety zones	
(g)	space for storage (patient lockers) of patient belongings & non-MRI-safe items	
(4)	Any area in which magnetic field strength is equal to or greater than 5 gauss is physically restricted by use of key locks or pass-key locking systems	

Building Systems Requirements

2.2-3.4.5.2 2.2-3.4.3.1	MRI scanner room MRI scanner room meets above requirements for Class 1 imaging rooms MRI scanner room meets above requirements for Class 2 imaging rooms or MRI scanner room meets above requirements for Class 3 imaging rooms		
2.2-3.4.2.3(2)	Handwashing Station or Hand Scrub Facilities:		
2.2-3.4.5.2(2)	handwashing station located in Class 1 MRI scanner room or directly outside entrance to Class 1 MRI scanner room		
2.2-3.4.2.3(2) (a)	or handwashing station directly accessible* to Class 2 MRI scanner room		
(b)	or hand scrub facilities hand scrub position directly outside entrance to Class 2 or Class 3 imaging room		
2.1-2.8.6.3	placement of scrub station does not restrict min. required corridor width		
2.2-3.4.2.2 (1)	Space Requirements: imaging rooms are sized & configured to comply with manufacturer's recommendations for installation service & maintenance installation plans from manufacturer have been submitted to DPH Plan Review	Cryogen Venting System: Emergency exhaust provided in accordance with equipment manufacturer's technical specifications Passive pressure relief provided in accordance with equipment manufacturer's technical specifications	2.2-3.4.5.3
(2)(a)	min. clearance 4'-0" on all circulating sides of patient table/bed/couch gantry or assembly	technical specifications	
2.2-3.4.2.4(d)	Structural Support: floor & if applicable ceiling structures in imaging rooms designed to support weight of imaging equipment as well as other fixed & movable ancillary equipment		

Building Systems Requirements

2.2-3.4.2.5 (1) (a) (2)	System component room □ check if not included in project Location: accessed only from unrestricted or semi-restricted space outside imaging room Space Requirements: room sized to accommodate following as indicated by imaging equipment manufacturer:
(a)	transformers
(b)	power distribution equipment
(c)	power conditioning/UPS equipment
(d)	computers
(e)	associated electronics & electrical gear
2.2-3.4.5.4	MRI control room
(1)	operator console positioned so operator has full view of principal approach &
	entrance to MRI scanner room
(2)	outward-swinging door
	check if <u>not</u> included in projectdoor in open position does not
	obstruct view of entry opening
	from operator's console
2.2-3.4.1.3(1)	Space Requirements:
(a)	sized & configured according to
	manufacturer's recommendations
2.2-3.4.1.3(1)	shielded view window designed to
(c)	provide full view of patient at all times (use of additional closed-circuit video
	monitoring permitted)
2.2-3.4.1.3(1)	control room enclosed with walls & door
(d)	☐ check if <u>not</u> included in project
2.2-3.4.1.3(1)	(only for Class 1 imaging room & where
(e)	imaging room is not required to be under positive or negative pressure)
2.2-3.4.5.5	Control vestibule
(1)	located outside MRI scanner room so
	that patients health care personnel & other employees must pass through it
	before entering MRI scanner room
(2)	control vestibule is part of MRI control room
	or
	control vestibule directly visible from control room

Architectural Requirements Building Systems Requirements 2.2-3.4.5.6 Patient treatment/resuscitation area Ventilation: __ adjacent* to MRI room Table 7.1 Min. 6 air changes per hour space suitable for patient code treatment/resuscitation 2.2-3.4.5.7 2.2-3.4.2.5 System component room ☐ check if not included in project Location: (1)accessed only from (a) unrestricted or semi-restricted space outside imaging room (2)Space Requirements: room sized to accommodate following as indicated by imaging equipment manufacturer: transformers (a) power distribution (b) equipment power conditioning/UPS (c) equipment computers (d) associated electronics & (e) electrical gear associated electronics & (e) electrical gear **Equipment Installation Requirements:** 2.2-3.4.5.8 power conditioning and/or (1) uninterruptible power supply provided as indicated by MRI manufacturer's power requirements & specific facility conditions (2)radiofrequency (RF) shielding provided for clinical MRI installations to attenuate stray radio frequencies that could interfere with MRI imaging process magnetic shielding (3)☐ check if not included in project (only if magnetic field hazards or interferences are adequately controlled through facility planning) ___ assessed by certified physicist 2.2-3.4.5.9 Special Design Elements for MRI Scanner Room: ferromagnetic materials that may (1)(a)become detached or otherwise interfere with operation of MRI scanner are not used in MRI scanner rooms MRI scanner room be located and/or (1)(b)shielded to avoid electromagnetic interference from elevators or other electromagnetic equipment

Architectural Requirements Building Systems Requirements (2)(a)floor structure designed to support weight of MRI scanner equipment minimize disturbance to MRI magnetic field & mitigate disruptive environmental vibrations (2)(b)MRI rooms be marked with lighted sign with red light to indicate that magnet is always on (2)(c)acoustic control provided to mitigate noise emitted by MRI scanner per Table 1.2-6 **ULTRASOUND FACILITIES** 2.2-3.4.6 ☐ check if <u>not</u> included in project Ultrasound room 2.2-3.4.3.1 meets above requirements for Class 1 imaging rooms 2.2-3.4.6.1 Space Requirements: min. clearance 3'-0" on all (1)(a)circulating sides of patient table or procedural chair (2) handwashing station 2.2-3.4.6.2 Patient toilet room directly accessible* from imaging room 2.2-3.4.10.2(2) (a) 2.2-3.4.10.2(2) each toilet room serves one ultrasound Ventilation: room only Min. 10 air changes per hour Table 7.1 Exhaust patient toilet room serves more than Negative pressure (b) ___ No recirculating room units one ultrasound room ___ shared toilet rooms have (c) interlocking door access hardware **NUCLEAR IMAGING SERVICES** 2.2-3.4.7 ☐ check if not included in project 2.2-3.4.7.1 2.2-3.4.3.1 Nuclear imaging room meets above requirements for Class 1 imaging rooms Nuclear imaging room meets above requirements for Class 2 imaging rooms Nuclear imaging room meets above requirements for Class 3 imaging rooms 2.2-3.4.7.1(3) Exercise area or room ☐ check if not included in project (a) space for exercise equipment in imaging room or space for exercise equipment in separate room directly accessible* to imaging room

Building Systems Requirements

(b)	staff work space in imaging room or staff work space in separate room directly accessible* to imaging room
2.2-3.4.7.1(4)	 Handwashing stations provided throughout nuclear imaging suite at locations of patient contact & provided throughout nuclear imaging suite at locations where radiopharmaceutical materials are handled, prepared or disposed
2.2-3.4.7.1(5) (c)(d)	Nuclear imaging dose administration area (may be combined with pre-procedure patient care area or PET patient uptake/cool-down room)
(a) (b)	located near preparation areaprovisions for visual privacy from otherareas
2.2-3.4.7.1(6)	Surfaces throughout nuclear imaging suite constructed of cleanable non-porous materials that can be decontaminated
2.2-3.4.7.2	_ Scintigraphy (gamma camera) rooms ☐ check if <u>not</u> included in project
2.2-3.4.2.2 (1)	Space Requirements: imaging rooms are sized & configured to comply with manufacturer's recommendations for installation service & maintenance installation plans from manufacturer have been submitted to DPH Plan Review
(2)(a)	min. clearance 4'-0" on all circulating sides of patient table/bed/couch gantry or assembly
2.2-3.4.2.4(d)	Structural Support: floor & if applicable ceiling structures in imaging rooms designed to support weight of imaging equipment as well as other fixed & movable ancillary equipment
2.2-3.4.7.2(2)	handwashing station

Building Systems Requirements

2.2-3.4.2.5	System component roomcheck if not included in project
(1) (a)	Location: accessed only from unrestricted or semi-restricted
(2)	space outside imaging room Space Requirements: room sized to accommodate following as indicated by equipment manufacturer:
(a) (b)	transformers power distribution equipment
(c)	power conditioning/UPS equipment
(d) (e)	computers associated electronics & electrical gear
2.2-3.4.7.3	Positron emission tomography suite (PET)check if <u>not</u> included in project
(1) (a)	PET Suite Configuration: PET suites designed & positioned in facility to restrict incidental exposure to ionizing radiation sources by persons not immediately involved in PET examination
(b)	certified radiation physicist has determined required extent of radiation shielding at radio- pharmacy, hot lab, scanner room, patient holding & other spaces specifications of radiation shielding have been submitted to DPH Radiation Control Program
(2)	PET scanner room ☐ check if not included in project
2.2-3.4.3.1	PET scanner room meets above requirements for Class 1 imaging rooms
	PET scanner room meets above requirements for Class 2 imaging rooms or
	PET scanner room meets above requirements for Class 3 imaging rooms
2.2-3.4.2.2 (1)	Space Requirements: imaging rooms comply with manufacturer's recommendations installation plans from manufacturer have been submitted to DPH Plan Review
(2)(a)	min. clearance 4'-0" on all circulating sides of patient table/bed/couch gantry or assembly

Building Systems Requirements

2.2-3.4.2.4(d)	Structural Support: floor & if applicable ceiling structures in imaging rooms designed to support weight of imaging equipment as well as other fixed & movable ancillary equipment
2.2-3.4.7.3(2) (b) (3)(b)	handwashing station control room (may serve more
	than one PET scanner room)
2.2-3.4.3.3 2.2-3.4.2.5	System component room check if not included in project
(1) (a)	Location: accessed only from
(2)	unrestricted or semi-restricted space outside imaging room Space Requirements:
	room sized to accommodate following as indicated by equipment manufacturer:
(a) (b)	<pre>transformers power distribution</pre>
(c)	equipment power conditioning/ UPS equipment
(d) (e)	computers associated electronics &
(-)	electrical gear
2.2-3.4.7.3(5)	Cyclotron room ☐ check if not included in project (only
	ii radiopharmaceuticais are provided by
(a) (b)	if radiopharmaceuticals are provided by commercial sources) located in access-restricted areas shielding requirements coordinated between equipment manufacturer & reviewing medical physicist specifications of radiation shielding have been submitted to DPH Radiation Control Program
	commercial sources) located in access-restricted areas shielding requirements coordinated between equipment manufacturer & reviewing medical physicist specifications of radiation shielding
(b)	commercial sources) located in access-restricted areas shielding requirements coordinated between equipment manufacturer & reviewing medical physicist specifications of radiation shielding have been submitted to DPH Radiation Control Program handwashing station Patient uptake/cool-down room
(b)	commercial sources)located in access-restricted areasshielding requirements coordinated between equipment manufacturer & reviewing medical physicistspecifications of radiation shielding have been submitted to DPH Radiation Control Programhandwashing station Patient uptake/cool-down room radiation shielding provided for patient uptake/cool-down configured & appointed to
(b) (c) (6)	commercial sources) located in access-restricted areas shielding requirements coordinated between equipment manufacturer & reviewing medical physicist specifications of radiation shielding have been submitted to DPH Radiation Control Program handwashing station Patient uptake/cool-down room radiation shielding provided for patient uptake/cool-down

Building Systems Requirements

2.2-3.4.7.4	Single-photon emission computed tomography room (SPECT)check if not included in project
2.2-3.4.3.1	SPECT scanner room meets above requirements for Class 1 imaging rooms
	SPECT scanner room meets above requirements for Class 2 imaging rooms
2.2-3.4.2.2	or SPECT scanner room meets above requirements for Class 3 imaging rooms Space Requirements:
(1)	imaging rooms comply with manufacturer's recommendations installation plans from manufacturer have been submitted to DPH Plan Review
(2)(a)	min. clearance 4'-0" on all circulating sides of patient table gantry or assembly
2.2-3.4.2.4(d)	Structural Support: floor & if applicable ceiling structures in imaging rooms designed to support weight of imaging equipment as well as other fixed & movable ancillary equipment
2.2-3.4.7.4(2)	handwashing station
2.2-3.4.2.5	 System component room□ check if not included in project
(2)	Space Requirements: room sized to accommodate
	following as indicated by imaging equipment manufacturer:
(a) (b)	transformers power distribution
	equipment
(c)	power conditioning/UPS equipment
(d) (e)	computers
	associated electronics & electrical gear
2.2-3.4.8.15(1)	

Building Systems Requirements

	3.7
2.2-3.4.8.15(2)	PRE- & POST-PROCEDURE PATIENT CARE AREA FOR CLASS 2 OR CLASS 3 IMAGING ROOMS: □ check if Class 2 & Class 3 imaging rooms are
(3)	not included in project (may be shared with adjacent* surgical services)
2.1-3.4.1.1	 Patient care stations accommodate lounge chairs, gurneys or beds for pre- & post-procedure (recovery) patient care Patient care stations accommodate seating space for family/visitors
2.1-3.4.1.2	Location in unrestricted area
2.1-3.4.1.3(2)	Layout:
(a)	 combination of pre- & post-procedure patient care stations in one patient care area patient care stations combined in
	same area meet most restrictive requirements of areas to be
	combined
(b)	or separate pre-procedure patient care
(b)	area & post-procedure recovery area
	or
(c)	three areas: pre-procedure patient care area Phase I post-anesthetic care unit (PACU) & Phase II recovery area
2.1-3.4.1.4	Number of Patient Care Stations:
(1)	pre- & post-procedure patient care stations are combined into one patient care area
	☐ check if <u>not</u> included in project
	at least two patient care stations
	for each Class 2 & Class 3 imaging room
(2)	separate pre-procedure & recovery areascheck if not included in project
2.1-3.4.3	pre-procedure patient care room or area provides minimum of one patient care station per imaging room
2.1-3.4.4	Phase I post-anesthetic care unit (PACU) provides minimum of one Phase I patient care station per Class 3 imaging room
2.1-3.4.5	Phase II recovery room(s) or area min. one Phase II patient care station per Class 2 or Class 3 imaging room

Architectural Requirements Building Systems Requirements 2.1-3.4.2.2 Space Requirements: patient care bays (2)(a)☐ check if not included in project ___ min. clearance 5'-0" between sides Ventilation: of patient beds/gurneys/lounge Min. 6 air changes per hour Table 7.1 No recirculating room units chairs min. clearance 3'-0" between sides Power: of patient beds/gurneys/lounge Min. 8 receptacles in total Table 2.1-1 ___ convenient to head of chairs & adjacent* walls or gurney or bed partitions Nurse Call System: min. clearance 2'-0" between foot ___ Staff assistance station of patient beds/gurneys/lounge Table 2.1-2 chairs & cubicle curtain Emergency call station Medical Gases: ____ 1 OX, 3 VAC, 1 MA per station Table 2.1-3 (2)(b)patient care cubicles ☐ check if not included in project min. clearance 3'-0" between sides Ventilation: of patient beds/gurneys/lounge ___ Min. 6 air changes per hour Table 7.1 ___ No recirculating room units chairs & adjacent* walls or partitions min. clearance 2'-0" between foot Power: of patient beds/gurneys/lounge ___ Min. 8 receptacles in total Table 2.1-1 ___ convenient to head of chairs & cubicle curtain gurney or bed Nurse Call System: _ Staff assistance station Table 2.1-2 Emergency call station Medical Gases: 1 OX, 3 VAC, 1 MA per station Table 2.1-3 bays or cubicles face each other ☐ check if not included in project aisle with min. clearance 8'-0" independent of foot clearance between patient stations or other fixed objects single-patient rooms (2)(c)☐ check if not included in project ___ min. clearance 3'-0" between sides Ventilation: Min. 6 air changes per hour Table 7.1 & foot of beds/gurneys/lounge No recirculating room units chairs & adjacent* walls or partitions Power: Min. 8 receptacles in total Table 2.1-1 ___ convenient to head of gurney or bed Nurse Call System: __ Staff assistance station Table 2.1-2 Emergency call station Medical Gases: ____ 1 OX, 3 VAC, 1 MA per station Table 2.1-3 2.1-3.4.2.4 Patient Privacy: provisions are made to address patient 2.1-2.1.2 visual & speech privacy 2.1-3.4.2.5 Handwashing stations located in each room where hands-on 2.1-2.8.7.1 patient care is provided

Building Systems Requirements

2.1-2.8.7.3	handwashing station serves multiple patient care stationscheck if not included in project		
(1)	at least 1 handwashing station for every 4 patient care stations or fewer & for each major fraction thereof		
(2)	handwashing stations evenly distributed		
2.1-3.4.4.2	At least one route of patient transport provides direct access from semi-restricted area of surgical suite to Phase I recovery area without crossing public corridors		
2.1-3.4.4.3	Design of Phase I recovery area provides observation of all patient care stations from nurse station		
130.960(B)	Cardiac Catheterization & Electrophysiology: check if not included in project patient recovery area directly accessible from the procedure room		
2.2-3.4.8	SUPPORT AREAS FOR IMAGING SERVICES (may be shared between different imaging modalities)		
2.2-3.4.8.2	Reception area with control desk		
2.2-3.4.8.3 2.1-2.8.3.1	Documentation areawork surface to support documentation		
2.2-3.4.8.4	process Consultation area		
2.2-3.4.0.4	for consultation with patients or referring clinician (including remote consultation)		
2.2-3.4.8.8(1)	Medication safety zone & storage immediately accessible* from pre- & post-procedure patient care areas		
2.2-3.4.8.8(2)	provision for locked storage of medications		
2.1-2.8.8.1(2) (a)	Design Promoting Safe Medication Use: medication safety zones located out of circulation paths		
(b)	work space designed so that staff can access information & perform required tasks	Lighting: Task-specific lighting level min. 100 foot-candles	2.1-2.8.8.1(2) (d)
(c)	work counters provide space to perform required tasks		()
(e)	sharps containers placed at height that allows users to see top of container		
(f)	max. 45 dBA noise level caused by building systems		

	Architectural Requirements	Building Systems Requirements	
2.1-2.8.8.2(1) (a) (b)	medication preparation room under visual control of nursing staff work counter handwashing station lockable refrigerator locked storage for controlled drugs sharps containers	Ventilation: Min. 4 air changes per hour Lighting: Task lighting Nurse Call System:	Table 7.1 2.1-2.8.8.1(2)(d)
	\Box check if <u>not</u> included in project	Duty station (light/sound signal)	Table 2.1-2
(c)	 self-contained medication-dispensing unit check if <u>not</u> included in project room designed with space to prepare medications 		
2.1-2.8.8.2(2)	automated medication-dispensing unit	Lighting	
(a)	located at nurse station, in clean workroom or in alcove	Lighting: Task lighting	2.1-2.8.8.1(2)(d)
(c)	handwashing station located next to stationary medication- dispensing units or stations	Nurse Call System: Duty station (light/sound signal)	Table 2.1-2
2.2-3.4.8.11 (2) (1) 2.1-2.8.11.2 (1) (2) (3)	Clean workroom or clean supply room (may be shared with another department) readily accessible* to imaging rooms clean workroom used for preparing patient care items work counter handwashing station storage facilities for clean & sterile supplies or	Ventilation: Min. 4 air changes per hour Positive pressure Nurse Call System: Duty station (light/sound signal)	Table 7.1 Table 2.1-2
2.1-2.8.11.3	clean supply room used only for storage & holding as part of system for distribution of clean & sterile supplies	Ventilation: Min. 4 air changes per hour Positive pressure	Table 7.1
2.2-3.4.8.12 2.1-2.8.12.2	Soiled workroom or soiled holding room soiled workroom	Ventilation: Min. 10 air changes per hour	Table 7.1
(1)(a) (1)(b)	 handwashing station flushing-rim clinical service sink with bedpan-rinsing device or equivalent flushing-rim fixture 	Exhaust Negative pressure No recirculating room units	Table 7.1
(1)(c) (1)(d)	<pre>work counter space for separate covered</pre>	Nurse Call System:	
(2)	containers for waste & soiled linen fluid management system is used	Duty station (light/sound signal)	Table 2.1-2
(a)	 □ check if <u>not</u> included in project <u>electrical & plumbing</u> connections that meet 		
(b)	manufacturer requirements space for docking station		

	Architectural Requirements	Building Systems Requirements	
2.1-2.8.12.3	soiled holding room	Ventilation: Min. 10 air changes per hour	Table 7.1
(1)	handwashing station or hand sanitation station	Exhaust Negative pressure	
(2)	space for separate covered containers for waste & soiled linen	No recirculating room units	
2.2-3.4.8.12(2)	 Contaminated (hot) soiled holding check if <u>not</u> included in project (only if Nuclear Imaging is not involved or if written 		
(a)	statement from medical physicist is provided) provided in soiled workroom or soiled holding room separate from other waste holding areas		
2.2-3.4.8.13(1) + Errata	Clean linen storage storage area for clean linen		
2.2-3.4.8.14 (2) (1) 2.1-2.8.14.2	 Environmental services room (may be shared with other departments) immediate access to imaging suite 		
(1)	service sink or floor-mounted mop sink	Ventilation: Min. 10 air changes per hour	Table 7.1
(2)	provisions for storage of supplies & housekeeping equipment	Exhaust Negative pressure No recirculating room units	rable 7.1
(3)	handwashing station or hand sanitation station		
2.2-3.4.8.16 (3) (1)(a) & (b)	 Contrast media preparation area (may serve multiple imaging rooms) check if not included in project sink & counter 		
(2) (c)	 check if <u>not</u> included in project (only if prepared media are used) storage to accommodate preparation of contrast media 		
2.2-3.4.8.17 (1)	 Image management system space provided for digital image management system to be used for image acquisition & transmission 		
2.2-3.4.8.18 (1)	Image interpretation/reading rooms remote location of image interpretation/ reading areas be permitted provided radiologists are immediately available when interventional imaging procedures are performed		
(2)	or on-site location of image interpretation/		
(a)	reading areas adjustable ambient lighting with minimal glare projected onto computer monitors		

Building Systems Requirements

(b)	 higher level of illumination for room maintenance (activated separately from ambient reading lighting) workstation task lighting for writing or reading hard copy acoustic control materials, finishes & sound masking minimize disruption from conversational speaking dictation & surrounding noise 		
2.2-3.4.8.19	Facilities for Processing Ultrasound Probes:		
(1)	 check if <u>not</u> included in project dedicated ultrasound probe processing 		
	room		
(c)	processing room allows for flow of ultrasound probes from decontamination area to clean area		
(d)	& then to storage decontamination area	Ar all al	
Errata	work counter instrument-washing sink appropriate to method of	Ventilation: Min. 10 air changes per hour Exhaust	Table 7.1
	decontamination used handwashing station space & utility connections to support high-level disinfection process & equipment used	Negative pressure No recirculating room units	
(2)	or ultrasound probes processed at point of use or in separate area using automated high-level disinfection unit specifically		
(a)	designed for ultrasound probes space for disinfection device with		
(b)	access to electrical receptacle access to soiled workroom provided in same clinical area to support probe decontamination soiled workroom equipped with instrument-washing sink		
(3)	clean ultrasound probe storage		
2.2-3.4.8.21	 Radiopharmaceutical production pharmacy check if <u>not</u> included in project radiopharmacy provided with appropriate shielding 		
(1)	Space Requirements:		
(a)	space provided for dose calibration quality assurance & record-keeping activities	Ventilation: Hoods for pharmaceutical preparation meet applicable	2.2-3.4.8.21 (3)
(b)	space for storage of radionuclides chemicals for preparation dose	standards	
(2)	calibrators & records floors & walls be constructed of easily decontaminated materials		

	Architectural Requirements	Building Systems Requirements
2.2-3.4.8.22 (2) (3)(a) (3)(b) (3)(c)	Hot lab for nuclear imaging services □ check if not included in project _ securable area or room for storage & dosage of radiopharmaceuticals hot lab shielded according to manufacturer's technical specifications _ manufacturer's technical specifications have been submitted to DPH Plan Review source storage area dose storage area storage area for syringe shields	Ventilation: Min. 6 air changes per hour Exhaust Negative pressure No recirculating room units
(3)(d)	emergency eyewash & shower	
2.2-3.4.9 2.2-3.4.9.1 (1) (2) 2.2-3.4.9.2	SUPPORT AREAS FOR IMAGING SERVICES STAFF Staff lounge readily accessible* to imaging suite Provisions for securing staff belongings Staff toilet room	
(1)	directly accessible* to staff lounge	Ventilation: Min. 10 air changes per hour Table 7.1 Exhaust Negative pressure No recirculating room units
(2)	imaging suite has fewer than 3 imaging rooms staff toilet room readily accessible* to imaging suite or imaging suite has 3 or more imaging rooms staff toilet room immediately accessible* to imaging suite	
2.2-3.4.9.4	 Staff changing area (may be shared with surgery services) check if not included in project (only if all imaging rooms are Class 1) 	
2.2-3.3.9.4(1)	 staff changing area with one or more private changing rooms or areas provided for male & female staff 	
2.2-3.3.9.4(2) (a) (b) (c)	lockers showers toilets	Ventilation: Min. 10 air changes per hour Table 7.1 Exhaust Negative pressure No recirculating room units
(d) (e) (f)	 handwashing stations space for donning & doffing surgical attire provision for separate storage of clean & soiled surgical attire 	

	Architectural Requirements	Building Systems Requirements	
2.2-3.4.10 2.2-3.4.10.1 (1)	SUPPORT AREAS FOR PATIENTS Patient waiting room or area screened & separated from unrelated traffic under staff control seating capacity accommodates maximum expected patient volume	Ventilation: X-ray imaging rooms served min. 12 air changes per hour exhaust or recirculation through HEPA filter negative pressure or no X-ray imaging rooms served or ICRA attached to Project Narrative indicates that no special measures are needed to reduce risk of airborne infection transmission	Table 7.1 2.2-3.4.10.1(5)
(3)	 suite routinely used for inpatients at same time as outpatients check if not included in project outpatient waiting & inpatient holding areas separated to provide visual & acoustic privacy 		
(4)	Sub-Waiting Areas: check if <u>not</u> included in project provision of waiting areas for individual imaging modalities or sharing of sub-waiting areas among similar modalities located in areas adjacent* to imaging rooms is desired		
2.2-3.4.10.2	Patient toilet rooms		
(1)	immediately accessible* to waiting areas immediately accessible* to changing rooms handwashing stations	Ventilation: Min. 10 air changes per hour Exhaust Negative pressure	Table 7.1
(3)	Toilet rooms for nuclear imaging patients ☐ check if <u>not</u> included in project (only if	No recirculating room units	
(a)	Nuclear Imaging is not involved immediately accessible* to waiting areas immediately accessible* to nuclear imaging rooms	Ventilation: Min. 10 air changes per hour Exhaust Negative pressure No recirculating room units	Table 7.1
(b)	dedicated "hot" toilets for dosed nuclear imaging patients	No recirculating room units	
2.2-3.4.10.3 (1) (2) (3)	 Patient changing rooms □ check if <u>not</u> included in project □ located adjacent* to imaging rooms □ each room includes seat or bench & mirror □ provisions for hanging patient clothing & securing valuables located either in patient changing room or in shared secured storage 		

*LOCATION TERMINOLOGY:

<u>Directly accessible</u>: Connected to the identified area or room through a doorway, pass-through, or other opening without going through an intervening room or public space

<u>Adjacent</u>: Located next to but not necessarily connected to the identified area or room <u>Immediately accessible</u>: Available either in or adjacent to the identified area or room

Readily accessible: Available on the same floor or in the same clinic as the identified area or room

Architectur	al Details & MEP Requirements		
2.1-7.2.2	ARCHITECTURAL DETAILS	(2) (a)	Door Opening: min. 45.5" clear door width for
2.1-7.2.2.1 NFPA 101,	CORRIDOR WIDTH: Aisles, corridors & ramps required for exit access in a hospital not less than	4.	diagnostic/treatment areas min. 83.5" clear door height for diagnostic/treatment areas
18.2.3.4	8'-0" in clear & unobstructed width or Detailed code review incorporated in Project Narrative	(b)	 swinging doors for personnel use in addition to sliding doors check if <u>not</u> included in project min. clear width 34.5"
	Aisles, corridors & ramps in adjunct areas not intended for the housing, treatment, or use of inpatients not less than 44" in clear & unobstructed width	(3) (a)	Door Swing: doors do not swing into corridors except doors to non-occupiable
	or Detailed code review incorporated in Project Narrative	(4)	spaces & doors with emergency breakaway hardware
2.1-7.2.2.2	CEILING HEIGHT:	(4)	Lever hardware or push/pull latch hardware
(1)(2)	Min ceiling height 7'-6"in corridors & in normally unoccupied spacesMin. height 7'-0" in radiography,	(5) (a)	Doors for Patient Toilet Facilities: two separate doors
(0)	procedure & operating rooms from floor to lowest protruding element of equipment or fixture in stowed position		or door that swings outward or
(3)	Min. height 7'-6" above floor of suspended tracks, rails & pipes located in traffic path for patients in beds & on stretchers		door equipped with emergency rescue hardware (permits quick access from outside the room to prevent blockage of the door)
	Min. ceiling height 7'-10" in other areas		or sliding door other than pocket
2.1-7.2.2.3	DOORS & DOOR HARDWARE: Door Type:		door
(a)	 doors between corridors, rooms, or spaces subject to occupancy swing type or sliding doors sliding doors 	(b)	toilet room opens onto publicarea or corridorcheck if <u>not</u> included in project
(b)	check if <u>not</u> included in project manual or automatic		visual privacy is maintained
	sliding doors comply with NFPA 101 detailed code review	2.1-7.2.2.7	GLAZING MATERIALS: Glazing within 1 foot 6 inches of floor □ check if not included in project
	included in Project Narrative no floor tracks		must be safety glass, wire glass or plastic break-resistant material

2.1-7.2.2.8	HANDWASHING STATIONS:	2.1-7.2.2.12	NOISE CONTROL:
(1)(c)	 Handwashing stations in patient care areas located so they are visible & unobstructed 	(1)	Recreation rooms, exercise rooms equipment rooms & similar spaces where impact noises may be
(3)			generated are not located directly
(a)	Handwashing station countertops		over operating suites or
	made of porcelain, stainless steel,		Special provisions are made to
	solid-surface materials or impervious		minimize impact noise
(b)	plastic laminate assembly		
(b)	Countertops substrate	(2)	Noise reduction criteria in Table 1.2-6
	□ check if <u>not</u> included in project		applicable to partitions, floors & ceiling
	marine-grade plywood (or		construction are met in patient areas
	equivalent material) with impervious seal	24722	CUDEACEC
(4)	Handwashing station casework	2.1-7.2.3 2.1-7.2.3.1	SURFACES FLOORING & WALL BASES:
(¬)	☐ check if <u>not</u> included in project	(1)	Flooring surfaces cleanable &
	designed to prevent storage	(1)	wear-resistant for location
	beneath sink	(3)	Smooth transitions provided
(5)	Provisions for drying hands	(0)	between different flooring materials
	□ check if <u>not</u> included in project	(4)	Flooring surfaces including those on
	(only at hand scrub facilities)		stairways are stable, firm & slip-resistant
(a)	hand-drying device does not	(5)	Floors & wall bases of soiled
/I- \	require hands to contact dispenser		workrooms, toilet rooms & other areas
(b)	hand-drying device is enclosed to protect against dust or soil & to		subject to frequent wet cleaning are
	ensure single-unit dispensing		constructed of materials that are not
(6)	Liquid or foam soap dispensers		physically affected by germicidal or
(0)	ziquid er ream eeup diepensere	(-) ()	other types of cleaning solutions
2.1-7.2.2.9	GRAB BARS:	(7)(a)	Floors are monolithic & integral
(1)	Grab bars anchored to sustain		coved wall bases are at least 6" high
(5)	concentrated load 250 pounds		& tightly sealed to wall in Class 2 &
(3)	Ends of grab bars constructed to		Class 3 imaging rooms
	prevent snagging clothes of patients staff & visitors	2.1-7.2.3.2	WALLS & WALL PROTECTION:
	Stall & VISITOIS	(1)(a)	Wall finishes are washable
2.1-7.2.2.10	HANDRAILS:	(1)(b)	Wall finishes near plumbing fixtures
(1)	Handrails installed on both sides of	(1)(0)	are smooth, scrubbable &
	patient use corridors		water-resistant
(3)	Rail ends return to wall or floor	(2)	Wall surfaces in areas routinely
(4)	Handrail gripping surfaces & fasteners	, ,	subjected to wet spray or splatter are
(5)	are with 1/8-inch min. radius		monolithic or have sealed seams that
(5) (6)	Handrails have eased edges & corners Handrail finishes are cleanable		are tight & smooth
(6)		(5)	Wall protection devices & corner
2.1-7.2.2.11	RADIATION PROTECTION:	047000	guards durable & scrubbable
2.17.2.2.11	☐ check if no radiation emitting	2.1-7.2.3.3	CEILINGS:
	equipment is included in project	(1)	Ceilings provided in all areas except mechanical, electrical &
	Protection for X-ray & Gamma-ray		communications equipment rooms
	installations are shown in the plans	(a)	Ceilings cleanable with routine
	Documentation for radiation		housekeeping equipment
	protection has been submitted	(b)	Acoustic & lay-in ceilings where used
	separately to the DPH Radiation		do not create ledges or crevices
	Control Program		

(2)	Semi-Restricted Areas:		
(a)	 check if <u>not</u> included in project ceiling finishes are scrubbable, non absorptive, non perforated, & capable of withstanding cleaning with chemicals 	Part 3/6.1.2.2	Central cooling systems greater than 400 tons (1407 kW) peak cooling load — check if not included in project cooling sources sufficient to
(b)	lay-in ceilings gasketed or each ceiling tile weighs min. 1 Lbs. per sq. ft.		support facility operation plan upon breakdown or routine maintenance of any one of
(c)	no perforated, tegular, serrated or highly textured tiles or ceilings of monolithic construction	Part 3/6.2 Part 3/6.2.1	cooling sources AIR-HANDLING UNIT (AHU) DESIGN: AHU casing is designed to prevent water intrusion, resist corrosion & permit access for inspection & maintenance
(3)	Restricted Areas: ☐ check if <u>not</u> included in project	Part 3/6.3	OUTDOOR AIR INTAKES & EXHAUST DISCHARGES:
(a)	ceilings of monolithic construction (except for central diffuser array)	Part 3/6.3.1 Part 3/6.3.1.1	Outdoor Air Intakes: located min. of 25'-0" from
(b)	 ceiling finishes scrubbable & capable of withstanding cleaning & disinfecting chemicals 		cooling towers & all exhaust & vent discharges outdoor air intakes located such
(c)	access openings are gasketed		that bottom of air intake is at least 6'-0" above grade
2.1-7.2.4	FURNISHINGS		air intakes located away from public access
2.1-7.2.4.1	built-in furnishings upholstered with		public access
	impervious materials in patient treatment areas with risks of	Part 3/6.3.1.3	intakes on top of buildings
	exposure & contamination from		\square check if <u>not</u> included in project
	bodily fluids & other fluids		located with bottom of air
2.1-7.2.4.3	Privacy curtains in patient care areas		intake min. of 3'-0" above roof level
	are washable		100i level
2.1-8.2	HEATING VENTILATION &	Part 3/6.3.1.4	intake in areaway
	AIR-CONDITIONING (HVAC) SYSTEMS		☐ check if <u>not</u> included in project bottom of areaway air
Part 3/6.1	UTILITIES:		intake opening is at least
Part 3/6.1.1	Ventilation Upon Loss of Electrical Power:		6'-0" above grade
	space ventilation & pressure		bottom of air intake
	relationship requirements of		opening from areaway into
	Table 7.1 are maintained for		building is at least 3'-0" above bottom of areaway
	Class 2 & Class 3 imaging rooms in event of loss of normal		above bottom of areaway
	electrical power	Part 3/6.4	FILTRATION:
			Two filter banks for inpatient care
Part 3/6.1.2	Heating & Cooling Sources:		(see Table 6.4) Filter Bank No. 1: MERV 7
Part 3/6.1.2.1	heat sufficient to accommodate		Filter Bank No. 2: MERV 14
	facility needs (reserve capacity) even when any one of heat		Each filter bank with efficiency of
	sources or essential accessories		greater than MERV 12 is provided
	is not operating due to		with differential pressure measuring
	breakdown or routine		device to indicate when filter needs to be changed
	maintenance capacity of remaining source or	Part 3/6.4.1	Filter Bank No. 1 is placed upstream
	sources is sufficient to provide		of heating & cooling coils
	heating for Class 2 & Class 3	Part 3/6.4.2	Filter Bank No. 2 is placed
	imaging rooms & recovery rooms		downstream of all wet-air cooling coils & supply fan
			John & Jupply Iall

Part 3/6.5 Part 3/6.5.3	HEATING & COOLING SYSTEMS: Radiant heating systems check if not included in project ceiling or wall panels with exposed cleanable surfaces or radiant floor heating are provided in Class 2 & Class 3 imaging rooms	Part 3/7.1.a.3 Part 3/7.1.a.4	 Min. number of total air changes required for positive pressure rooms is provided by total supply airflow Min. number of total air changes required for negative pressure rooms is provided by total exhaust airflow Entire minimum outdoor air changes per hour required by Table 7.1 for each space meet filtration
Part 3/6.7 Part 3/6.7.1	AIR DISTRIBUTION SYSTEMS: Maintain pressure relationships required in tables 7.1 in all modes of HVAC system operation Spaces that have required pressure relationships are served by fully ducted return systems or fully ducted exhaust systems Inpatient facilities & recovery rooms are served by fully ducted return or exhaust systems	Part 3/7.1a.5	requirements of Section 6.4 Air recirculation through room unit check if not included in project complies with Table 7.1 room unit receive filtered &
Part 3/6.7.2	Air Distribution Devices: supply air outlets comply with Table 6.7.2	Part 3/7.2 Part 3/7.4.1	ROOM-SPECIFIC REQUIREMENTS: Operating Rooms □ check if not included in project
Part 3/6.7.3	Smoke Barriers: HVAC zones coordinated with compartmentation to minimize ductwork penetrations of fire & smoke barriers.		 Each OR has individual temperature control OR is provided with primary supply diffuser array designed as follows: airflow is unidirectional downwards & average velocity
Part 3/6.8	ENERGY RECOVERY SYSTEMS: ☐ check if not included in project		of diffusers is 25 to 35 CFM/ft ² diffusers are concentrated to provide airflow pattern over
Part 3/6.8.1	Located upstream of Filter Bank No. 2		patient & surgical team
Part 3/6.8.3	Energy recovery systems with leakage potential □ check if not included in project arranged to minimize potential to transfer exhaust air directly back into supply airstream designed to have no more than 5% of total supply airstream consisting of exhaust air not used from these exhaust airstream sources: radiology waiting rooms, darkroom, waste anesthesia gas disposal, soiled holding room, nuclear medicine hot lab & nuclear medicine treatment room	Part 3/7.4.3	coverage area of primary supply diffuser array extends min. 12" beyond footprint of surgical table on each side no more than 30% of portion of primary supply diffuser array is used for non-diffuser uses additional supply diffusers provided within room outside of primary supply diffuser array □ check if not included in project each OR has at least two low sidewall return or exhaust grilles spaced at opposite corners or as far apart as possible with bottom of these grilles installed approximately 8" above floor Imaging Procedure Rooms
Part 3/7 Part 3/7.1.a	SPACE VENTILATION Spaces ventilated according to		☐ check if <u>not</u> included in project Anesthetic gases are administered
Part 3/7.1.a.1	Table 7.1 Air movement is from clean to less- clean areas		 ventilation requirements for operating rooms are met or No anesthetic gases are administered

2.1-8.3	ELECTRICAL SYSTEMS	2.1-8.4 2.1-8.4.2	PLUMBING SYSTEMS Plumbing & Other Piping Systems:
2.1-8.3.2	ELECTRICAL DISTRIBUTION & TRANSMISSION	2.1-8.4.2.1(3)	no plumbing piping exposed overhead or on walls where
2.1-8.3.2.2	Panelboards:		possible accumulation of dust or
(1)	panelboards serving life safety branch circuits serve floors on	2.1-8.4.2.5	soil may create cleaning problem Heated Potable Water Distribution
	which they are located & floors	2.1-0.4.2.3	Systems:
	immediately above & below	(2)	heated potable water
(2)	panelboard critical branch circuits serve floors on which		distribution systems serving
	they are located		patient care areas are under constant recirculation
(3)	panelboards not located in exit		non-recirculated fixture branch
	enclosures or exit passageways	(2)(a)	piping max. length 25'-0"
2.1-8.3.2.3	Ground-Fault Circuit Interrupters in	(3)(a)	no installation of dead-end piping (except for empty risers
2.1 0.0.2.0	Critical Care Areas:	(3)(c)	mains & branches for future use)
	\square check if <u>not</u> included in project	(3)(b)	any existing dead-end piping is
(2)	each receptacle individually		removed
	protected by single GFCI device	(4)(a)	check if <u>not</u> included in projectwater-heating system supplies
2.1-8.3.3	POWER-GENERATING & -STORING	(1)(2)	water at temperatures &
040004	EQUIPMENT		amounts indicated in Table 2.1-4
2.1-8.3.3.1	Essential electrical system or emergency electrical power	2.1-8.4.2.6	Drainage Systems:
(1)	essential electrical system	(1)(a)	drainage piping installed above
(2)	complies with NFPA 99		ceiling of or exposed in
(2)	emergency electrical power complies with NFPA 99		electronic data processing areas & electric closets
	oomplied warry 177.00		☐ check if <u>not</u> included in project
2.1-8.3.5	ELECTRICAL EQUIPMENT		special provisions to protect
2.1-8.3.5.1	Handwashing sinks & scrub sinks that depends on building electrical		space below from leakage
	service for operation are connected	(1)(a)	& condensation drainage piping installed above
	to essential electrical system	(1)(2)	ceiling of or exposed in rooms
040050	☐ check if <u>not</u> included in project		listed below
2.1-8.3.5.2	Electronic health record system servers & centralized storage provided		 check if <u>not</u> included in project Sterile processing facilities
	with uninterruptible power supply		 Class 2 & 3 imaging rooms,
0.4.0.0.0	ELECTRICAL DECERTACIES		Electronic data processing
2.1-8.3.6 2.1-8.3.6.1	ELECTRICAL RECEPTACLES Receptacles In Corridors:		areas
(1)	duplex-grounded receptacles		 Electric closets special provisions to protect
. ,	for general use installed 50'-0"		space below from leakage
	apart or less in all corridors duplex-grounded receptacles		& condensation
	for general use installed within	(1)(b)	drip pan for drainage piping
	25'-0" of corridor ends		above ceiling of sensitive area ☐ check if not included in project
210262	Eggential Electrical System		accessible
2.1-8.3.6.3	Essential Electrical System Receptacles:		overflow drain with outlet
(1)	cover plates for electrical		located in normally occupied area that is not
	receptacles supplied from		open to restricted area
	essential electrical system are distinctively colored or marked	(2)	Floor Drains:
	for identification	(a)	no floor drains in Class 2 &
(2)	same color is used throughout		Class 3 imaging rooms
	facility		

2.1-8.4.3	PLUMBING FIXTURES	2.1-8.4.3.6	Scrub Sinks:
2.1-8.4.3.1(1)	Materials used for plumbing fixtures		□ check if <u>not</u> included in project
	are non-absorptive & acid-resistant	(1)	freestanding scrub sinks are
			trimmed with foot, knee or
2.1-8.4.3.2	Handwashing Station Sinks:		electronic sensor controls
(1)	sinks in handwashing stations	(2)	no single-lever wrist blades
	are designed with basins that	, ,	except for temperature
	will reduce risk of splashing to		pre-set valve
	areas where direct patient care		F
	is provided, sterile procedures	2.1-8.4.4	MEDICAL GAS & VACUUM SYSTEMS
	are performed & medications		Station outlets provided as
	are prepared		indicated in Table 2.1-3
(2)	sink basins have nominal size of		maioatoa m Tabio 2.1 o
()	no less than 144 square inches	2.1-8.5.1	CALL SYSTEMS
	sink basins have min. dimension	2.1-8.5.1.1	OALL OTOTLING
	9 inches in width or length	(1)	Nurse call stations provided as
(3)	sink basins are made of	(1)	required in Table 2.1-2
(0)	porcelain, stainless steel or	(2)	Nurse call systems report to attended
	solid-surface materials	(2)	
(5)	water discharge point of		location with electronically supervised visual & audible annunciation as
(3)	faucets is at least 10" above		
	bottom of basin	(4)	indicated in Table 2.1-2
(7)	anchored so that allowable	(4)	Call system complies with UL 1069
(7)	stresses are not exceeded		"Standard for Hospital Signaling &
	where vertical or horizontal	(5)	Nurse Call Equipment"
		(5)	Wireless nurse call system
(0)	force of 250 lbs. is applied		\Box check if <u>not</u> included in project
(8)	sinks used by staff, patients, &		complies with UL 1069
	public have fittings that can be		
	operated without using hands	2.1-8.5.1.3	Bath Stations:
	(may be single-lever or wrist		bath station that can be
	blade devices)		activated by patient lying on floor
(a)	blade handles		provided at each patient toilet
	□ check if <u>not</u> included in project	(1)	alarm in these areas can be
	at least 4 inches in length		turned off only at bath station
	provide clearance		where it was initiated
	required for operation	(3)	toilet bath stations located on
(b)	sensor-regulated water fixtures		the side of toilets within 12" of
	☐ check if <u>not</u> included in project		front of toilet bowl & 3'-0" to
	meet user need for		4'-0" above floor
	temperature & length of		
	time water flows	2.1-8.5.1.5	Emergency call stations are
	designed to function at all		equipped with continuous audible or
	times and during loss of		visual confirmation to person who
	normal power		initiated the code call
2.1-8.4.3.4	Ice-Making Equipment:	2.1-8.6.2	ELECTRONIC SURVEILLANCE
	copper tubing provided for		SYSTEMS
	supply connections to		☐ check if <u>not</u> included in project
	ice-making equipment	2.1-8.6.2.2	monitoring devices are located so
		2.1 0.0.2.2	they are not readily observable by
2.1-8.4.3.5	Clinical Flushing-Rim Sinks:		general public or patients
(1)	trimmed with valves that can	2.1-8.6.2.3	electronic surveillance systems
\ · /	are operated without hands	2.1 0.0.2.3	receive power from essential
(a)	(may be single-lever or wrist		electrical system
\ - -/	blade devices)		olootiloai system
(b)	handles are at least 6 in. long		
(2)	integral trap wherein upper		
\ - /	portion of water trap provides		
	visible seal		
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