COMPLIANCE CHECKLIST

IP16_Class 1 Imaging Services

The following checklist is intended to be used in plan review applications for health care facilities submitted to Massachusetts Department of Public Health This checklist summarizes & references applicable requirements from Licensure Regulations & 2022 Edition of FGI Guidelines for Design & Construction of Hospitals Applicants must verify compliance of plans submitted to Department with all referenced requirements from Licensure Regulations & FGI Guidelines when completing this Checklist separate Checklist must be completed for each nursing unit hospital or clinic department or clinical suite

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

- NFPA 101 Life Safety Code (2012) & applicable related standards contained in appendices of Code
- State Building Code (780 CMR)
- Accreditation requirements of Joint Commission
- CDC Guidelines for Preventing Transmission of Mycobacterium Tuberculosis in Health Care Facilities
- USP 797 & Regulations of Massachusetts Board of Registration in Pharmacy
- Occupational Safety & Health Standards (OSHA)
- Accessibility Guidelines of 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 following instructions & included in plan submissions for Self-Certification Process or Abbreviated Review Process
- This checklist must be completed by project architect or engineer based on design actually reflected in plans at time of completion of checklist
- Each requirement line (___) of this Checklist must be completed exclusively with one of following marks unless otherwise directed in checklist If functional space is not affected by renovation project mark "E" may be indicated on requirement line (____) before name of 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 given required function (e.g. patient room or exam room) that clarification should be provided in Project Narrative & requirement lines are understood to only address functional spaces that are involved in project
- **X** = Requirement is met for new space for renovated space or for existing direct support space for expanded service
- **E** = Requirement relative to existing suite or area that has been licensed for its designated function is not affected by construction project & does not pertain to required direct support space for specific service affected by project "E" must not be used for existing required support space associated with 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 project area
- W = Waiver requested for specific section of Regulations or FGI Guidelines where hardship in meeting requirement can be demonstrated (a Physical Plant Waiver Form must be completed for each waiver request) explicit floor plan or plan detail must be attached to each waiver request
- 4. All room functions marked with "X" must be shown on plans with same name labels as in this checklist
- Mechanical electrical & plumbing requirements are only partially mentioned in this checklist relevant section of FGI Guidelines must be used for project compliance with all MEP requirements & for waiver references
- Oxygen vacuum medical air waste anesthesia gas disposal & instrument air outlets (if required) are identified respectively by abbreviations "OX" "VAC" "MA" "WAGD" & "IA"
- Requirements referenced with "FI" result from formal interpretations from FGI Interpretations Task Group 7.
- The location requirements including asterisks (*) refer to definitions of Glossary in beginning section of FGI Guidelines & 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

2.2-3.5	CLASS 1 IMAGING SERVICES		
2.2-3.5.1.2 2.2-3.5.2.1(1) Table 2.2-2	Imaging Room 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 room is unrestricted area accessed from unrestricted area		
2.2-3.5.3	COMPUTED TOMOGRAPHY (CT) FACILITIES ☐ check if <u>not</u> included in project		
2.2-3.5.2.1(1) Table 2.2-2	Flooring: cleanable & wear-resistant for location; stable firm & slip-resistant Wall Finishes:	Ventilation: Min 6 air changes per hour Power: Min 8 receptacles in total	Table 7-1 Table 2.1-1
	washable Ceiling: cleanable with routine housekeeping	Min 4 receptacles on each lateral side of imaging gantry Nurse Call System:	
2.2-3.5.2.3(1)	equipment handwashing station	Emergency call station Medical Gases: 1 OX 1 VAC	Table 2.1-2 Table 2.1-3
2.2-3.5.1.2	Radiation Protection: 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 Control Program		
2.2-3.5.1.2(1) (a)	 shielded control alcove or room control room or alcove is at min sized & configured in compliance with manufacturer's recommendations for installation service & maintenance 		
(b)	Shared control room or alcove check if not included in project control room or alcove permitted to serve more than one imaging room provided manufacturer's recommendations for installation service & maintenance are accommodated for all rooms served means provided to prevent patient in one imaging room from viewing patient in another imaging room		

Building Systems Requirements

(c)	shielded view window designed to provide full view of exam table & patient at all times full view of patient during imaging activities through direct line of sight or use of closed-circuit video monitoring
2.2-3.5.2.2 (1) (a)	Space requirements clearances manufacturer's recommended clearances for installation service & maintenance be provided installation plans from manufacturer have been submitted to DPH Plan Review min clearance 5'-0" on at least one designated patient transfer side of
(b)	patient table min clearance 3'-0" on all sides of freestanding imaging device including patient table gantry or assembly
2.2-3.5.2.4(1)(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
2.2-3.5.2.5	System component room
(1) (a)	 □ check if <u>not</u> included in project Location: opens into imaging room or open into space outside imaging room
(2)	Space Requirements: room sized to accommodate following as indicated by imaging equipment manufacturer:
(a) (b) (c)	transformers power distribution equipment power conditioning/UPS
(d) (e)	equipment computers associated electronics & electrical gear

Building Systems Requirements

2.2-3.5.4.2	RADIOGRAPHY (X_RAY) ROOM
	☐ check if not included in project

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2.2-3.5.2.1(1) Table 2.2-2	Flooring: cleanable & wear-resistant for location; stable firm & slip-resistant Wall Finishes: washable Ceiling: cleanable with routine housekeeping equipment
2.2-3.5.2.3(1)	handwashing station
2.2-3.5.1.2	Radiation Protection: 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 Control Program
2.2-3.5.1.2(1) (a)	 shielded control alcove or room control room or alcove is at min sized & configured in compliance with manufacturer's recommendations for installation service & maintenance
(b)	Shared control room or alcove check if not included in project control room or alcove permitted to serve more than one imaging room provided manufacturer's recommendations for installation service & maintenance are accommodated for all rooms served means provided to prevent patient in one imaging room from viewing patient in another imaging room
(c)	shielded view window designed to provide full view of exam table & patient at all times full view of patient during imaging activities through direct line of sight or use of closed-circuit video monitoring
2.2-3.5.2.2 (1) (a)	Space requirements clearances manufacturer's recommended

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:	
Emergency call station	Table 2.1-2
Medical Gases:	Table 2.1-3
1 OX 1 VAC	

Building Systems Requirements

	installation plans from manufacturer have been submitted to DPH Plan Review min clearance 5'-0" on at least one designated patient transfer side of patient table		
(b)	min clearance 3'-0" on all sides of freestanding imaging device including patient table gantry or assembly		
2.2-3.5.2.4(1)(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		
2.2-3.5.2.5	System component room		
(4)	☐ check if <u>not</u> included in project		
(1) (a)	Location: opens into imaging room		
()	or		
	opens into space outside imaging room		
(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)	computers		
(e)	associated electronics & electrical gear		
	oroenieur geun		
2.2-3.5.4.3	FLUOROSCOPY ROOM ☐ check if not included in project		
2.2-3.5.2.1(1)	Flooring:	Ventilation:	
Table 2.2-2	cleanable & wear-resistant for location;	Min 6 air changes per hour	Table 7-1
	stable firm & slip-resistant Wall Finishes:	Power:	Table 2.1-1
	washable	Min 8 receptacles in totalMin 4 receptacles on each	1 able 2.1-1
	Ceiling:	lateral side of imaging gantry	
	cleanable with routine housekeeping	Nurse Call System:	T-bl- 0.4.0
	equipment	Emergency call station Medical Gases:	Table 2.1-2 Table 2.1-3
2.2-3.5.2.3(1)	handwashing station	1 OX 1 VAC	
2.2-3.4.4.3(1)	Separate toilet room		
2.2-3.4.4.3(1)	handwashing station		
	directly accessible* from each		
	dedicated Class 1 fluoroscopy room or		
	combination radiography/fluoroscopy		

Building Systems Requirements

	room patients are able to leave toilet room without reentering fluoroscopy room
2.2-3.5.1.2	Radiation Protection: check if not included in project (only if imaging equipment does not emit ionizing radiation) 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 Control Program
2.2-3.5.1.2(1)	 shielded control alcove or room☐ check if <u>not</u> included in project(only if radiation-emitting imaging
(a)	equipment is portable) control room or alcove is at min sized & configured in compliance with manufacturer's recommendations for installation service & maintenance
(b)	Shared control room or alcove check if not included in project control room or alcove permitted to serve more than one imaging room provided manufacturer's recommendations for installation service & maintenance are accommodated for all rooms served means provided to prevent patient in one imaging room from viewing patient in another imaging room
(c)	 shielded view window designed to provide full view of exam table & patient at all times full view of patient during imaging activities through direct line of sight or use of closed-circuit video monitoring
2.2-3.5.2.2 (1) (a)	Space requirements clearances manufacturer's recommended clearances for installation service & maintenance be provided installation plans from manufacturer have been submitted to DPH Plan Review

Architectural Requirements Building Systems Requirements min clearance 5'-0" on at least one designated patient transfer side of patient table (b) min clearance 3'-0" on all sides of freestanding imaging device including patient table gantry or assembly 2.2-3.5.2.4(1)(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 System component room 2.2-3.5.2.5 □ check if not included in project Location: (1)(a) opens into imaging room open into space outside imaging room Space Requirements: (2) ___ room sized to accommodate following as indicated by imaging equipment manufacturer: ___ transformers (a) ___ power distribution equipment (b) ___ power conditioning/UPS (c) equipment computers (d) (e) associated electronics & electrical gear 2.2-3.5.4.4 **MAMMOGRAPHY ROOM** ☐ check if not included in project Flooring: Ventilation: 2.2-3.5.2.1(1) Table 2.2-2 cleanable & wear-resistant for location; Min 6 air changes per hour Table 7-1 stable firm & slip-resistant Power: ___ Min 8 receptacles in total Wall Finishes: Table 2.1-1 Min 4 receptacles on each washable Ceiling: lateral side of imaging gantry cleanable with routine housekeeping Nurse Call System: Emergency call station equipment Table 2.1-2 Medical Gases: Table 2.1-3 1 OX 1 VAC Space Requirements: 2.2-3.5.4.4(1) min clearance 3'-0" on all circulating (a)

MDPH/DHCFLC 12/24 IP16

sides of patient position

room by public or other patients

means to prevent views into mammography

Visual Privacy:

Handwashing station

2.2-3.5.4.4(2)

2.2-3.5.4.4(3)

Architectural Requirements 2.2-3.5.4.4(4) Changing rooms for mammography patients check if not 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

2.2-3.5.10.3(2) 2.2-3.5.10.3(3)	each mammography room) immediately accessible* to waiting area immediately accessible* 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
2.2-3.5.1.2	Radiation Protection: 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 Control Program
2.2-3.5.2.1(1) Table 2.2-2	BONE DENSITOMETRY ROOM ☐ check if not included in project Flooring: cleanable & wear-resistant for location; stable firm & slip-resistant Wall Finishes: washable Ceiling: cleanable with routine housekeeping equipment
2.2-3.5.2.3(1)	handwashing station
2.2-3.5.1.2	Radiation Protection: certified radiation physicist representing owner has specified type location &

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:	
Emergency call station	Table 2.1-2
Medical Gases:	Table 2.1-3
1 OX 1 VAC	

2.2-3.5.5 MAGNETIC RESONANCE IMAGING (MRI) FACILITIES

☐ check if not included in project

Control Program

equipment selections

amount of radiation protection to be installed in accordance with layout &

specifications of radiation shielding have been submitted to DPH Radiation

2.2-3.5.5.1

Configuration of MRI suite

____ suite for MRI equipment with static
magnetic field of 9 gauss that is
contained within MRI scanner device

[1]

MRI suite conforms with
manufacturer's siting guidance

or
___ suite for MRI equipment with static

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Building Systems Requirements

magnetic field of 9 gauss that extends beyond MRI scanner device conforms to four-zone screening & access control protocols identified in current edition of "ACR Manual on MR Safety" (as noted below)

(a)	Static magnetic field of 9 gauss extends beyond MRI scanner device check if not included in project Zone IV: Located within MR Controlled Access Area & MR Environment In most	
	cases it uniquely includes MR Projectile Area "Magnet is Always On" signage must be visible under all conditions for superconducting systems	
	zone IV MR system room door willbe closed at all times except forpatient transport	
	Zone III: Located within MR Controlled Access Area (9-gauss line may extend outside Zone IV into Zone III control room areas or adjacent equipment rooms)	
	Zone II: Interface between publicly accessible uncontrolled Zone I & MR Controlled Access Area typically includes patient waiting changing nursing preparation area patient screening including	
	ferromagnetic detection Zone I: Freely accessible to general public	
(c)	Support Areas for MRI Suite space for patient interviews & physical & clinical screening separate from MRI scanner room patient code treatment/resuscitation area	
	adjacent to MRI scanner room ferromagnetic (only) detection & warning systems access controls	
	 space for containment of non-MRI-safe objects outside restricted MRI safety zones space for storage (patient lockers) of 	
(d)	patient belongings & non-MRI-safe items any area in which magnetic field strength is equal to or greater than gauss is physically restricted by use of key locks or pass-key locking systems	

MRI scanner room 2.2-3.5.5.2 2.2-3.5.2.1(1) Flooring: cleanable & wear-resistant for Table 2.2-2 location; stable firm & slip-resistant Wall Finishes: washable Ceiling: cleanable with routine housekeeping equipment handwashing station 2.2-3.5.5.2(2) location of handwashing station in (b) MRI scanner room location of handwashing station directly outside entrance to MRI scanner room 2.2-3.5.2.2 Space requirements (1) clearances manufacturer's recommended (a) clearances for installation service & maintenance be provided installation plans from manufacturer have been submitted to DPH Plan Review min clearance 5'-0" on at least one designated patient transfer side of patient table min clearance 3'-0" on all (b) sides of freestanding imaging device including patient table gantry or assembly 2.2-3.5.2.4(1)(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 MRI control room 2.2-3.5.5.4 □ check if not included in project (only if control room is not required by MRI device manufacturer) (1) operator console positioned so operator has full view of principal approach & entrance to MRI scanner room (2)outward-swinging door ☐ check if not included in project door in open position does not obstruct view of entry opening from operator's console Space Requirements: 2.2-3.5.1.3(1) sized & configured according to (a) manufacturer's recommendations

Building Systems Requirements

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:	
Emergency call station	Table 2.1-2
Medical Gases:	Table 2.1-3
1 OX 1 VAC	

Superconducting MRI cryogen venting: Cryogen vent (quench) pipe is provided in accordance with equipment manufacturer's technical specifications (for	2.2-3.5.5.3 (1)
MRI equipment protection) Cryogen venting points of discharge: clearly marked & shielded from staff & maintenance personnel areas	(a)
substantially removed from all public & patient routes of travel	
minimum clearances from air intakes operable windows or doors as defined by MRI system manufacturer	(b)
designed with weather head sufficient to protect against horizontally driven rain	(c)
Accessible areas around cryogen vent discharge marked to indicate safety exclusion zone in accordance with MRI equipment manufacturer standards	(d)
Emergency exhaust & passive pressure relief provided in accordance with equipment manufacturer's technical specifications for building occupant protection	(2)

Building Systems Requirements

	Architectural requirements
2.2-3.5.1.3(1) (c)	view window designed to provide full view of patient at all times (use of additional closed-circuit video monitoring permitted)
2.2-3.5.5.5	Entry vestibule □ check if not included in project
(3)	(only if 5-gauss volume does not extend beyond MRI device)
(1)	located outside MRI scanner room so that patients health care personnel & other employees must pass through it before entering MRI scanner room
(2)	entry vestibule is part of MRI control room or
000550	entry vestibule directly visible from control room
2.2-3.5.5.6 2.2-3.5.2.5	System component room
(1)	Location:
(a)	opens into imaging room
	open into space outside imaging room
(2)	Space Requirements:
	 room sized to accommodate following as indicated by imaging equipment manufacturer:
(a)	transformers transformers
(b)	power distribution equipment
(c)	power conditioning/UPS equipment
(d)	computers
(e)	associated electronics & electrical gear
2.2-3.5.5.7 (1)	Special design elements for MRI scanner room Architectural details
(1) (a)	ferromagnetic materials that may become detached or otherwise interfere with operation of MRI scanner are not used in MRI
(b)	scanner rooms radiofrequency (RF) shielding
(-)	provided for clinical MRI installations to attenuate stray radio frequencies that could interfere with
(c)	MRI imaging process MRI scanner room located and/or shielded to avoid electromagnetic
	interference from elevators or
(d)	other electromagnetic equipment need for magnetic shielding has been assessed by certified physicist experienced in magnetic
(e)	shielding design acoustic control provided to mitigate noise emitted by MRI scanner

Building Systems Requirements

(2) (a) (b)	Structural details floor structure designed to support weight of MRI scanner equipment floor structure designed minimize disturbance to MRI magnetic field floor structure designed to mitigate disruptive environmental vibrations structural designs keep ferrous content at or below MRI manufacturer requirements based on mass & proximity to MRI scanner		
(3) (a)	Electrical details power conditioning and/or uninterruptible power supplies provided as indicated by MRI manufacturer's power requirements		
(b)	& specific facility conditions MRI rooms marked with lighted sign with red light to indicate that magnet is in operation		
2.2-3.5.6	ULTRASOUND FACILITIES ☐ check if not included in project		
2.2-3.5.6.1 (1)(a)	Ultrasound room Space Requirements: min clearance 3'-0" on all circulating sides of patient table or procedural chair handwashing station		
2.2-3.5.2.1(1) Table 2.2-2	Flooring: cleanable & wear-resistant for location; stable firm & slip-resistant Wall Finishes: washable Ceiling: cleanable with routine housekeeping equipment	Ventilation: Min 6 air changes per hour Power: Min 8 receptacles in total Min 4 receptacles on each lateral side of imaging gantry Nurse Call System: Emergency call station Medical Gases:	Table 7-1 Table 2.1-1
2.2-3.5.2.3(1)	handwashing station	1 OX 1 VAC	Table 2.1-3
2.2-3.5.6.2 2.2-3.5.10.2(2) (a)	Patient toilet room directly accessible* from imaging room		
2.2-3.5.10.2(2) (b) (c)	each toilet room serves one ultrasound room only or patient toilet room serves more than one ultrasound room shared toilet rooms have interlocking door access hardware	Ventilation: Min 10 air changes per hour Exhaust Negative pressure No recirculating room units	Table 7-1

Architectural Requirements Building Systems Requirements 2.2-3.5.8.19 Facilities for Processing Ultrasound Probes: ☐ check if not included in project (only if all ultrasound probes are disinfected in central sterile processing area) dedicated ultrasound probe processing (1) room or area (may serve multiple ultrasound exam rooms) processing room allows for flow of (c) ultrasound probes from decontamination area to clean area & then to storage (d) decontamination area work counter Ventilation: instrument-washing sink Min 10 air changes per hour Table 7-1 appropriate to method of Exhaust decontamination used Negative pressure handwashing station No recirculating room units space & utility connections to support high-level disinfection process & equipment used or ultrasound probes processed at point of (2) use or in separate area using automated high-level disinfection unit specifically designed for ultrasound probes space for disinfection device with (a) access to electrical receptacle access to soiled workroom in same (b) clinical area to support probe decontamination when necessary soiled workroom equipped with instrument-washing sink clean ultrasound probe storage (3) 2.2-3.5.7 **NUCLEAR/MOLECULAR IMAGING SERVICES** ☐ check if not included in project 2.2-3.5.7.1(3) Exercise area or room ☐ check if not included in project exercise equipment (e.g stationary (a) bicycle treadmill) Clearance is provided for patient & caregiver access to equipment on primary access side & on one adjacent side or space for exercise equipment in separate room directly accessible* to imaging room (b) staff work space in imaging room or staff work space in separate room directly accessible* to imaging room

Architectural Requirements Building Systems Requirements

2.2-3.5.7.1(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 		
2.2-3.5.7.1(5) (a) (b)	 Nuclear imaging dose administration area located near preparation area provisions for visual privacy from other areas 		
2.2-3.5.7.2 2.2-3.5.2.1(1) Table 2.2-2	Scintigraphy (gamma camera) rooms □ check if <u>not</u> included in project Flooring: cleanable & wear-resistant for location; stable firm & slip-resistant	Ventilation: Min 6 air changes per hour Power:	Table 7-1
	Wall Finishes: washable Ceiling: cleanable with routine housekeeping equipment	Min 8 receptacles in total Min 4 receptacles on each lateral side of imaging gantry Nurse Call System: Emergency call station Medical Gases:	Table 2.1-1 Table 2.1-2 Table 2.1-3
2.2-3.5.2.3(1)	handwashing station	1 OX 1 VAC	1 4510 2.1
2.2-3.5.1.2	Radiation Protection: 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 Control Program		
2.2-3.5.1.2(1) (a)	shielded control alcove or room control room or alcove is at min sized & configured in compliance with manufacturer's recommendations for installation service & maintenance		
(b)	Shared control room or alcove check if not included in project control room or alcove permitted to serve more than one imaging room provided manufacturer's recommendations for installation service & maintenance are accommodated for all rooms served means provided to prevent patient in one imaging room from viewing patient in another imaging room		

Building Systems Requirements

(c)	shielded view window designed to provide full view of exam table & patient at all times full view of patient during imaging activities through direct line of sight or use of closed-circuit video monitoring
2.2-3.5.2.2	Space requirements:
(1)(a)	clearances manufacturer's recommended
(1)(b)	min clearance 3'-0" on all sides of freestanding imaging device including patient table gantry or assembly
2.2-3.5.2.4(1)(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
2.2-3.5.2.4(1)(d) 2.2-3.5.2.5	 floor & if applicable ceiling structures in imaging rooms designed to support weight of imaging equipment as well as other fixed & movable ancillary equipment System component room
	floor & if applicable ceiling structures in imaging rooms designed to support weight of imaging equipment as well as other fixed & movable ancillary equipment
2.2-3.5.2.5	floor & if applicable ceiling structures in imaging rooms designed to support weight of imaging equipment as well as other fixed & movable ancillary equipment System component room check if not included in project Location: opens into imaging room or open into space outside imaging room Space Requirements: room sized to accommodate following as indicated by imaging equipment
2.2-3.5.2.5 (1) (a) (2) (a) (b)	floor & if applicable ceiling structures in imaging rooms designed to support weight of imaging equipment as well as other fixed & movable ancillary equipment System component room check if not included in project Location: opens into imaging room or open into space outside imaging room Space Requirements: room sized to accommodate following as indicated by imaging equipment manufacturer: transformers power distribution equipment
2.2-3.5.2.5 (1) (a) (2)	floor & if applicable ceiling structures in imaging rooms designed to support weight of imaging equipment as well as other fixed & movable ancillary equipment System component room check if not included in project Location: opens into imaging room or open into space outside imaging room Space Requirements: room sized to accommodate following as indicated by imaging equipment manufacturer: transformers

Building Systems Requirements

2.2-3.5.7.3	Positron emission tomography suite (PET)		
	\square check if <u>not</u> included in project		
(1)	PET Suite Configuration:		
(a)	PET suites designed & positioned in		
	facility to restrict incidental exposure		
	to ionizing radiation sources by		
	persons not immediately involved in		
(b)	PET examination certified radiation physicist has		
(b)	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		
(5)			
(2)	_ PET scanner room		
000504	□ check if <u>not</u> included in project		
2.2-3.5.3.1	PET scanner room meets above		
	requirements for Class 1 imaging rooms or		
	PET scanner room meets above		
	requirements for Class 2 imaging rooms		
	or		
	PET scanner room meets above		
	requirements for Class 3 imaging rooms		
	Flooring:	Ventilation:	T-1-1- 7 4
	cleanable & wear-resistant for	Min 6 air changes per hour Power:	Table 7-1
	location; stable firm & slip-resistant Wall Finishes:	Min 8 receptacles in total	Table 2.1-1
	washable	Min 4 receptacles on each	14010 2.1-1
	Ceiling:	lateral side of imaging gantry	
	cleanable with routine	Nurse Call System:	
	housekeeping equipment	Emergency call station	Table 2.1-2
		Medical Gases:	Table 2.1-3
2.2-3.5.2.3(1)	handwashing station	1 OX 1 VAC	
000500	0		
2.2-3.5.2.2	Space requirements:		
(1) (a)	manufacturer's recommended		
(4)	clearances for installation service &		
	maintenance be provided		
	installation plans from manufacturer		
	have been submitted to DPH Plan		
	Review		
	Review min clearance 5'-0" on at least one		
	Review min clearance 5'-0" on at least one designated patient transfer side of		
(h)	Review min clearance 5'-0" on at least one		
(b)	Review min clearance 5'-0" on at least one designated patient transfer side of patient table		
(b)	Review min clearance 5'-0" on at least one designated patient transfer side of		

Building Systems Requirements

2.2-3.5.2.4(1)(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
2.2-3.5.3.3 2.2-3.5.2.5	_ System component room □ check if <u>not</u> included in project
(1) (a)	Location: opens into imaging room or open into space outside imaging room
(2)	Space Requirements: room sized to accommodate following as indicated by imaging equipment
(a) (b) (c)	manufacturer: transformers power distribution equipment power conditioning/UPS equipment
(d) (e)	computers associated electronics & electrical gear
2.2-3.5.7.3(6)	 Cyclotron room □ check if <u>not</u> included in project (only if radiopharmaceuticals are provided by commercial sources)
(a) (b)	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
(c)	handwashing station
2.2-3.5.7.3(7)	Patient uptake/cool-down room radiation shielding provided for
2.2-3.5.7.3(7)(b)	patient uptake/cool-down configured & appointed to minimize patient movement during radiopharmaceutical uptake period
	dedicated patient uptake/cool- down room or
2.2-3.5.7.1(5)(d)	combined with Nuclear ImagingDose Administration Area
2.2-3.5.7.3(7)(c)	Toilet room with handwashing station & dedicated "hot" toilet to accommodate radioactive waste directly accessible* or adjacent* to uptake/cool-down room

2.2-3.5.7.4	Single-photon emission computed tomography room (SPECT)□ check if not included in project
2.2-3.5.3.1	Flooring: cleanable & wear-resistant for location; stable firm & slip-resistant Wall Finishes: washable Ceiling: cleanable with routine housekeeping equipment
2.2-3.5.2.3(1)	handwashing station
2.2-3.5.1.2	Radiation Protection: check if <u>not</u> included in project (only if imaging equipment does not emit ionizing radiation) certified radiation physicist representing owner has specified type, location & amount of radiation protection to be installed based on layout & equipment specifications of radiation shielding have been submitted to DPH Radiation Control Program
2.2-3.5.1.2(1) (a)	 shielded control alcove or room control room or alcove is at min sized & configured in compliance with manufacturer's recommendations for installation
(b)	service & maintenance Shared control room or alcove check if not included in project control room or alcove permitted to serve more than one imaging room provided manufacturer's recommendations for installation service & maintenance are accommodated for all rooms served means provided to prevent patient in one imaging room from viewing patient in another imaging room
(c)	shielded view window designed to provide full view of exam table & patient at all times full view of patient during imaging activities through direct line of sight or use of closed-circuit video monitoring

Building Systems Requirements

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:	
Emergency call station	Table 2.1-2
Medical Gases:	Table 2.1-3
1 OX 1 VAC	

Building Systems Requirements

2.2-3.5.2.2	Space requirements:
(1)	
(a)	manufacturer's recommended
	clearances for installation service &
	maintenance be provided
	installation plans from manufacturer
	have been submitted to DPH Plan
	Review
	min clearance 5'-0" on at least one
	designated patient transfer side of
/L)	patient table
(b)	min clearance 3'-0" on all sides of
	freestanding imaging device including
	patient table gantry or assembly
2.2-3.5.2.4(1)(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
2.2-3.5.3.3	into a di moranio amoniary oquipmone
2.2-3.5.2.5	System component room
2.2 0.0.2.0	☐ check if <u>not</u> included in project
(1)	Location:
(1)	
(a)	opens into imaging room
	or
	open into 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
2.2-3.5.2.6	Multiple-modality devices (e.g., PET/CT
2.2 0.0.2.0	SPECT/CT or PET/MRI)
	minimum design requirements for that
	room include design criteria for each
	individual contributing modality
	individual contributing modality
2.2-3.5.8.15(1)	PRE- & POST-PROCEDURE PATIENT CARE
2.2 0.0.0.10(1)	AREA FOR CLASS 1 IMAGING ROOMS:
(1)	Min one patient care station provided for every
` /	three Class 1 imaging rooms or fraction thereof
	(for point-of-care lab work or injection preparation
	with non-radiopharmaceutical contrast agents)

Architectural Requirements Building Systems Requirements 2.2-3.5.8 SUPPORT AREAS FOR IMAGING SERVICES (may be shared between different imaging modalities) ___ Reception area with control desk 2.2-3.5.8.2 2.2-3.5.8.3 Documentation area ___ work surface to support documentation 2.1-2.8.3.1 process 2.2-3.5.8.4 Consultation area for consultation with patients or referring clinician (including remote consultation) ____ Medication safety zone & storage 2.2-3.5.8.8(1) ___ immediately accessible* from pre- & post-procedure patient care areas provision for locked storage of 2.2-3.5.8.8(2) medications 2.1-2.8.8.1(2) Design Promoting Safe Medication Use: ___ medication safety zones located (a) out of circulation paths ___ work space designed so that staff Lighting: (b) can access information & perform Task-specific lighting level 2.1-2.8.8.1(2) min 100 foot-candles required tasks (d) ___ work counters provide space to (c) perform required tasks sharps containers placed at height (e) that allows users to see top of container max 45 dBA noise level caused by (f) building systems 2.1-2.8.8.2(1) medication preparation room ___ under visual control of nursing staff Ventilation: (a) ___ work counter (b) Min 4 air changes per hour Table 7-1 ___ handwashing station Lighting: lockable refrigerator ___ Task lighting 2.1-2.8.8.1(2)(d) locked storage for controlled drugs sharps containers ☐ check if not included in project (c) self-contained medication-dispensing unit ☐ check if not included in project ___ room designed with space to prepare medications or 2.1-2.8.8.2(2) automated medication-dispensing unit located at nurse station in clean Lighting: (a) workroom or in alcove Task lighting 2.1-2.8.8.1(2)(d) handwashing station located next (c) to stationary medicationdispensing units or stations

	Architectural Requirements	Building Systems Requirements	
2.2-3.5.8.11 (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	Ventilation: Min 4 air changes per hour Positive pressure	Table 7-1
2.1-2.8.11.3	or 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
2.2-3.5.8.12	Soiled workroom or soiled holding room (may be shared with another department)	Ventilation	
2.1-2.8.12.2	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	
(1)(c)	work counter		
(1)(d)	space for separate covered containers for waste & soiled linen		
(2)	fluid management system is used □ check if <u>not</u> included in project		
(a)	electrical & plumbing connections that meet manufacturer requirements		
(b)	space for docking station		
2.1-2.8.12.3	or soiled holding room	Ventilation:	
(1)	handwashing station or hand	Min 10 air changes per hourExhaust	Table 7-1
(2)	sanitation station space for separate covered containers for waste & soiled linen	Negative pressure No recirculating room units	
2.2-3.5.8.12(2)	 Hot soiled holding □ check if not 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		
2.2-3.5.8.13(1)	Clean linen storage storage area for clean linen		

Building Systems Requirements

2.2-3.5.8.13(3)	Mobile storage units used in lieu of fixed cabinets ☐ check if not included in project placement of storage units does not encroach on clear floor area in imaging room or clearances needed for equipment used		
2.2-3.5.8.14 (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 provisions for storage of supplies & housekeeping equipment	Ventilation: Min 10 air changes per hour Exhaust Negative pressure No recirculating room units	Table 7-1
(3)	handwashing stationhand sanitation station		
2.2-3.5.8.16 (3)(4)	Contrast media preparation area (may serve multiple imaging rooms & is permitted to be part of medication preparation area) □ check if not included in project		
(1)(a) & (b) (2) (c) (d)	sink & counter check if <u>not</u> included in project (only if prepared media are used) storage to accommodate preparation of contrast media secure lockable storage		
2.2-3.5.8.17(1)	Image management system location of digital image management system on-site or location of digital image management system off-site		
2.1-6.3.5 2.1-6.3.5.1	Location to maintain confidentiality of records digital image management system area is restricted to staff access		
2.1-6.3.5.2 (1)	Space requirements space is provided for digital image		
(2)	management system physical space requirements for electronic storage is coordinated with electronic medical records personnel from facility		

Building Systems Requirements

2.2-3.5.8.18	Image interpretation/reading rooms		
(1)	remote location of image interpretation/		
` '	reading areas be permitted provided		
	radiologists are immediately available		
	when interventional imaging		
	procedures are performed		
(0)	or		
(2)	on-site location of image interpretation/		
	reading areas		
(a)	adjustable ambient lighting with		
	minimal glare projected onto		
	computer monitors		
	higher level of illumination for		
	room maintenance (activated		
	separately from ambient reading		
	lighting)		
	workstation task lighting for writing		
	or reading hard copy		
(b)	acoustic control		
(-)	materials finishes & sound		
	masking minimize disruption		
	from conversational speaking		
	dictation & surrounding noise		
	dictation & surrounding hoise		
2.2-3.5.8.21	Radiopharmaceutical production pharmacy		
2.2-3.3.0.21	 · · · · · · · · · · · · · · · · ·		
	□ check if <u>not</u> included in project		
	radiopharmacy provided with		
	appropriate shielding		
(1)	Space Requirements:		
(a)	space provided for dose	Ventilation:	2.2-3.4.8.21
	calibration quality assurance &	Hoods for pharmaceutical	(3)
	record-keeping activities	preparation meet applicable	
(b)	space for storage of radionuclides	standards	
	chemicals for preparation dose		
	calibrators & records		
(2)	floors & walls be constructed of		
,	easily decontaminated materials		
2.2-3.5.8.22	Hot lab for nuclear/molecular imaging		
	services		
	☐ check if <u>not</u> included in project		
	securable area or room for storage &		
	dosage of radiopharmaceuticals		
(2)	hot lab shielded according to	Ventilation:	
(2)	manufacturer's technical specifications		Table 7-1
	manufacturer's technical	Min 6 air changes per hour	Table 7-1
		Exhaust	
	specifications have been submitted	Negative pressure	
(0) ()	to DPH Plan Review	No recirculating room units	
(3)(a)	source storage area		
(3)(b)	dose storage area		
(3)(c)	storage area for syringe shields		
(3)(d)	emergency eyewash & shower		

	Architectural Requirements	Building Systems Requirements
2.2-3.5.9 2.2-3.5.9.1 (1) (2)	SUPPORT AREAS FOR IMAGING SERVICES STAFF Staff lounge readily accessible* to imaging suite Provisions for securing staff belongings	
2.2-3.5.9.2 (1)	Staff toilet room adjacent* 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	No recirculating room units
2.2-3.5.10 2.2-3.5.10.1 2.2-3.1.3.4 (1) (2)	SUPPORT AREAS FOR PATIENTS Patient waiting room or area seating public toilet room immediately accessible handwashing station	Ventilation: X-ray imaging rooms served min. 12 air changes per hour Table 7-1 exhaust or recirculation through HEPA filter negative pressure
(3) (4)	access to drinking water access to public communications services	or no X-ray imaging rooms served
2.2-3.5.10.1(2)	 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 	
2.2-3.5.10.1(3)	Sub-Waiting Areas:	
(a)	☐ check if <u>not</u> included in project provision of waiting areas for individual imaging modalities or sharing of	
(b)	sub-waiting areas among similar modalities sub-waiting areas screened & separated from unrelated traffic sub-waiting areas are under staff control	
2.2-3.5.10.1(4)	Low-level hot patient waiting area □ check if not included in project (may be omitted if medical physicist's report indicates it is not necessary) where imaging services will result in patients with low levels of radiation (low-level hot) sub-waiting area to isolate these patients is provided	

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	hitectural Requirements	Building Systems Requirements
2.2-3.5.10.2 (1)	Patient toilet rooms immediately accessible* to waiting area immediately accessible* to changing rooms handwashing stations	s Ventilation: Min 10 air changes per hour Table 7-1 Exhaust Negative pressure No recirculating room units
(3)	Toilet rooms for nuclear imaging patients ☐ check if <u>not</u> included in project (only if	
(a)	Nuclear Imaging is not involved in project) immediately accessible* to waiting area immediately accessible* to nuclear imaging rooms	Ventilation: s Min 10 air changes per hour Exhaust Table 7-1 Negative pressure No recirculating room units
(b)	dedicated "hot" toilets for dosed nucleating patients	
2.2-3.5.10.3	Patient changing rooms ☐ check if <u>not</u> included in project	
(1) (2)	located adjacent* to imaging rooms each room includes seat or bench & mirror	
(3)	provisions for individual lockable storage for patient clothing & valuables are immediately accessible to changing roon	s
*LOCATION TERM	INOLOGY:	
	Connected to identified area or room throug	h doorway pass-through or other opening without
Adjacent: Located	next to but not necessarily connected to iden	tified area or room
Immediately access	sible: Available either in or adjacent to identi	ied area or room
Readily accessible:	Available on same floor or in same clinic as	identified area or room
rchitectural Details &	MEP Requirements	
2.1-7.2.2.1 CORF NFPA 101, A	RIDOR WIDTH:	2.1-7.2.2.3 DOORS & DOOR HARDWARE: 1) Door Type: a) doors between corridors, rooms, or spaces subject to

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2.1-7.2.2	ARCHITECTURAL DETAILS	2.1-7.2.2.3	DOORS & DOOR HARDWARE:
2.1-7.2.2.1	CORRIDOR WIDTH:	(1)	Door Type:
NFPA 101,	Aisles, corridors & ramps required for	(a)	doors between corridors,
18.2.3.3	exit access in a hospital not less than		rooms, or spaces subject to
	8'-0" in clear & unobstructed width		occupancy swing type or
	or	(b)	sliding doors
	Detailed code review incorporated in	, ,	sliding doors
	Project Narrative		□ check if <u>not</u> included in project
	Aisles, corridors & ramps in adjunct		manual or automatic
	areas not intended for the treatment		sliding doors comply with
	or use of inpatients not less than 44"		NFPĂ 101
	in clear & unobstructed width		detailed code review
2.1-7.2.2.2	CEILING HEIGHT:		incorporated in Project
(1)	Min. ceiling height 7'-6" in corridors		Narrative
	& in normally unoccupied spaces		no floor tracks
(2)	Min. ceiling height 9'-0" in seclusion	(2)	Door Opening:
	rooms & secure holding rooms	(a)	min. 45.5" clear door width for
(3)	Min height 7'-6" above floor of		diagnostic/treatment areas
	suspended tracks rails & pipes		min. 83.5" clear door height for
	located in traffic path for patients in		diagnostic/treatment areas
	beds & on stretchers		-
	Min ceiling height 7'-10" in other areas		

(b)	 swinging doors for personnel use in addition to sliding doors□ check if <u>not</u> included in project min. clear width 34.5"	(5)	 Provisions for drying hands □ check if not included in project (only in the case of hand scrub facilities)
(3) (a)	Door Swing: doors do not swing into corridors except doors to non-occupiable spaces (e.g. environmental services rooms & electrical closets) & doors with emergency	(a) (b) (6)	 hand-drying device does not require hands to contact dispenser hand-drying device is enclosed to protect against dust or soil & to ensure single-unit dispensing liquid or foam soap dispensers No mirror at hand scrub stations or
(4)	breakaway hardware Lever hardware or push/pull latch	(7)	at handwashing stations in clean & sterile supply areas
(5) (a)	hardware Doors for Patient Toilet Facilities: two separate doors or door that swings outward or	2.1-7.2.2.9 (1) (3)	GRAB BARS: Grab bars anchored to sustain concentrated load 250 pounds Ends of grab bars constructed to prevent snagging clothes of patients staff & visitors
	door equipped with emergency rescue hardware (permits quick access from outside the room to prevent blockage of the door) or sliding door other than pocket door	2.1-7.2.2.10 (1) (3) (4)	HANDRAILS: Handrails installed on both sides of patient use corridors Rail ends return to wall or floor Handrail gripping surfaces & fasteners are smooth (free of sharp
(b)	 toilet room opens onto public area or corridor□ check if <u>not</u> included in project visual privacy is maintained	(5) (6)	or abrasive elements) with 1/8-inch min. radius Handrails have eased edges & corners Handrail finishes are cleanable
2.1-7.2.2.7	GLAZING MATERIALS: Glazing within 1 foot 6 inches of floor □ check if not included in project must be safety glass, wire glass or plastic break-resistant material	2.1-7.2.2.11	RADIATION PROTECTION: □ check if no radiation emitting equipment is included in project Protection for X-ray & Gamma-ray installations are shown in the plans Documentation for radiation
2.1-7.2.2.8 (1)(c)	HANDWASHING STATIONS: Handwashing stations in patient care areas located so they are		protection has been submitted separately to the DPH Radiation Control Program
(3) (a)	visible & unobstructed — Handwashing station countertops made of porcelain, stainless steel, solid-surface materials or impervious	2.1-7.2.2.12 (1)	NOISE CONTROL: Recreation rooms, exercise rooms equipment rooms & similar spaces where impact noises may be generated are not located directly
(b)	plastic laminate assembly Countertops substrate □ check if <u>not</u> included in project marine-grade plywood (or equivalent material) with		over operating suites or Special provisions are made to minimize impact noise
(4)	impervious seal Handwashing station casework □ check if <u>not</u> included in project designed to prevent storage beneath sink	(2)	Noise reduction criteria in Table 1.2-6 applicable to partitions, floors & ceiling construction are met in patient areas

2.1-7.2.3	SURFACES	2.1-8.2	HEATING VENTILATION &
2.1-7.2.3.1	FLOORING & WALL BASES:		AIR-CONDITIONING (HVAC) SYSTEMS
(1)	Flooring surfaces cleanable & wear-resistant for location	Part 3/6.1 Part 3/6.1.1	UTILITIES: Ventilation Upon Loss of Electrical
(3)	Smooth transitions provided	1 411 0/0.1.1	Power:
	between different flooring materials		space ventilation & pressure
(4)	Flooring surfaces including those on stairways are stable, firm &		relationship requirements of Table 7-1 are maintained for All
	slip-resistant		Rooms PE Rooms Operating
(5)	Floors & wall bases of soiled		Rooms in event of loss of normal
	workrooms, toilet rooms & other areas subject to frequent wet cleaning are		electrical power
	constructed of materials that are not	Part 3/6.1.2 Part 3/6.1.2.1	Heating & Cooling Sources: heat sources & essential
	physically affected by germicidal or	1 alt 5/0.1.2.1	accessories provided in number
(7)(a)	other types of cleaning solutions Floors are monolithic & integral		& arrangement sufficient to
()()	coved wall bases are at least 6" high		accommodate facility needs (reserve capacity) even when
	& tightly sealed to wall in rooms listed below:		any one of heat sources or
	airborne infection isolation (AII)		essential accessories is not
	room		operating due to breakdown or routine maintenance
	soiled workroom & soiled holding room		capacity of remaining source or
2.1-7.2.3.2	WALLS & WALL PROTECTION:		sources is sufficient to provide heating for operating rooms &
(1)(a)	Wall finishes are washable		recovery rooms
(1)(b)	Wall finishes near plumbing fixtures	Part 3/6.1.2.2	Central cooling systems greater
	are smooth, scrubbable & water-resistant		than 400 tons (1407 kW) peak
(2)	Wall surfaces in areas routinely		cooling load □ check if <u>not</u> included in project
	subjected to wet spray or splatter (e.g. environmental services rooms) are		number & arrangement of
	monolithic or have sealed seams that		cooling sources & essential
(5)	are tight & smooth		accessories is sufficient to support owner's facility
(5)	Wall protection devices & corner guards durable & scrubbable		operation plan upon breakdown
2.1-7.2.3.3	CEILINGS:		or routine maintenance of any one of cooling sources.
(1)	Ceilings provided in all areas except	Part 3/6.2	AIR-HANDLING UNIT (AHU) DESIGN:
	mechanical, electrical &	Part 3/6.2.1	AHU casing is designed to prevent
(a)	communications equipment rooms Ceilings cleanable with routine		water intrusion resist corrosion & permit access for inspection &
	housekeeping equipment		maintenance
(b)	Acoustic & lay-in ceilings where used do not create ledges or crevices	Part 3/6.3 Part 3/6.3.1.1	OUTDOOR AIR INTAKES
	do not create leages of crevices	Part 3/0.3.1.1	located such that shortest distance from intake to any specific potential
2.1-7.2.4	FURNISHINGS:		outdoor contaminant source be
2.1-7.2.4.1	built-in furnishings upholstered with impervious materials in patient		equal to or greater than separation distance listed in Table 6-1
	treatment areas with risks of exposure		located min of 25'-0" from cooling
	& contamination from bodily fluids & other fluids		towers & all exhaust & vent
2.1-7.2.4.3	Privacy curtains in patient care areas		discharges air intakes located away from public
	are washable		access
			all intakes are designed to prevent entrainment of wind-driven rain
			contain features for draining away
			precipitation equipped with birdscreen of mesh
			no smaller than 0.5 in

Part 3/6.3.1.4	intake in areaway □ check if <u>not</u> included in project bottom of areaway air	Part 3/6.7.2	Air Distribution Devices: supply air outlets comply with Table 6-2
	intake opening is at least 6'-0" above grade bottom of air intake opening from areaway into building is at least 3'-0" above bottom of areaway	Part 3/6.7.3	Smoke Barriers: HVAC zones coordinated with compartmentation to minimize ductwork penetrations of fire & smoke barriers.
	assive sellent of areamay	Part 3/6.8	ENERGY RECOVERY SYSTEMS:
Part 3/6.4	FILTRATION:	D 10/004	□ check if <u>not</u> included in project
a.	Particulate matter filters, minimum MERV-8 provided upstream of first	Part 3/6.8.1	Located upstream of filters required by Part 3/6.8.4
	heat exchanger surface of any air-	D-40/7	•
	conditioning system that combines	Part 3/7 Part 3/7.1.a	SPACE VENTILATION-HOSPITAL SPACES: Spaces ventilated according to Table 7-1
	return air from multiple rooms or	Tarto/T.T.a	Air movement is from clean to less-
b.	introduces outdoor air. Outdoor air filtered in accordance	Part 3/7.1.a.1	clean areas
	with Table 7-1	Part 3/7.1.a.3	Min number of total air changes
C.	Air supplied from equipment serving		required for positive pressure rooms is provided by total supply airflow
	multiple or different spaces is filtered in accordance with Table 7-1		Min number of total air changes
d.	Air recirculated within room is filtered		required for negative pressure rooms
	in accordance with Table 7-1, or	Part 3/7.1.a.4	is provided by total exhaust airflow Entire min. outdoor air changes per
	Section 7.1(a)(5)	1 art 3/1.1.a.4	hour required by Table 7-1 for each
e.	Design includes all necessary provisions to prevent moisture		space meet filtration requirements of
	accumulating on filters located	Part 3/7.1a.5	Section 6.4
	downstream of cooling coils &	Part 3/7. 1a.5	Air recirculation through room unit□ check if not included in project
h.	humidifiers For spaces that do not permit air		complies with Table 7-1
11.	recirculated by means of room units		room unit receive filtered &
	& have minimum filter efficiency of		conditioned outdoor air
	MERV-14, MERV-16 or HEPA in		serve only single space provides min MERV 8 filter
	accordance with Table 7-1, the min. filter requirement listed in Table 7-1,		located upstream of any cold
	is installed downstream of all wet-air		surface so that all of air passing
D 1.0/0.5	cooling coils & supply fan		over cold surface is filtered
Part 3/6.5 Part 3/6.5.3	HEATING & COOLING SYSTEMS: Radiant heating systems	2.1-8.3	ELECTRICAL SYSTEMS
1 alt 5/0.5.5	☐ check if <u>not</u> included in project	2.1-8.3.2	ELECTRICAL DISTRIBUTION &
	ceiling or wall panels with	0.4.0.0.0	TRANSMISSION
	exposed cleanable surfaces or radiant floor heating are provided	2.1-8.3.2.2 (1)	Panelboards: panelboards serving life safety
	in All room, PE room, operating	(1)	branch circuits serve floors on
	room or procedure room		which they are located & floors
Part 3/6.7	AIR DISTRIBUTION SYSTEMS:	(2)	immediately above & below panelboard critical branch
Part 3/6.7.1	Maintain pressure relationships	(2)	circuits serve floors on which
	required in tables 7.1 in all modes of		they are located
	HVAC system operation	(3)	panelboards not located in exit
	Spaces that have required pressure relationships are served by fully		enclosures or exit passageways
	ducted return systems or fully	2.1-8.3.3	POWER-GENERATING & -STORING
	ducted exhaust systems		EQUIPMENT
	Inpatient facilities & recovery rooms are served by fully ducted return or	2.1-8.3.3.1	Essential electrical system or
	exhaust systems	(1)	emergency electrical power essential electrical system complies with NFPA 99

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(2)	emergency electrical power complies with NFPA 99	(3)(b)	any existing dead-end piping is removed
2.1-8.3.4 2.1-8.3.4.1(1)	LIGHTING Luminaires in patient areas have smooth, cleanable, impact-resistant lenses concealing light source	(4)(a)	□ check if <u>not</u> included in project water-heating system supplies water at temperatures & amounts indicated in Table 2.1-4
2.1-8.3.4.1(2)	Luminaires designed to dissipate heat such that touchable surfaces will not burn occupants or ignite materials	2.1-8.4.2.6 (1)(a)	Drainage Systems: drainage piping installed above ceiling of or exposed in rooms
(7)	Uplight fixtures installed in patient care areas are covered		listed below piping have special provisions (e.g double wall containment piping or oversized
2.1-8.3.5 2.1-8.3.5.1	ELECTRICAL EQUIPMENT Handwashing sinks & scrub sinks that depends on building electrical service for operation are connected to essential electrical system		drip pans) to protect space below from leakage & condensation
2.1-8.3.5.2	Electronic health record system servers & centralized storage provided with uninterruptible power supply		trauma roomsnurseriescentral kitchens
2.1-8.3.6 2.1-8.3.6.1 (1)	ELECTRICAL RECEPTACLES Receptacles In Corridors: duplex-grounded receptacles for general use installed 50'-0" apart or less in all corridors duplex-grounded receptacles for general use installed within 25'-0" of corridor ends		 one-room sterile processing facilities clean workroom of two-room sterile processing facilities pharmacies Class 2 & 3 imaging rooms electronic mainframe rooms (EFs & TERs) main switchgear
2.1-8.3.6.3 (1)	Essential Electrical System Receptacles: cover plates for electrical receptacles supplied from essential electrical system are distinctively colored or marked for identification	(1)(b)	electrical rooms electronic data processing areas electric closets drip pan for drainage piping above ceiling of sensitive area
(2)	same color is used throughout facility		□ check if <u>not</u> included in project accessible
2.1-8.4 2.1-8.4.2 2.1-8.4.2.1(3)	PLUMBING SYSTEMS Plumbing & Other Piping Systems: no plumbing piping exposed overhead or on walls where		 overflow drain with outlet located in normally occupied area that is not open to restricted area
	possible accumulation of dust or soil may create cleaning problem	2.1-8.4.3 2.1-8.4.3.1(1)	PLUMBING FIXTURES Materials used for plumbing fixtures are non-absorptive & acid-resistant
2.1-8.4.2.5 (2)	Heated Potable Water Distribution Systems: heated potable water distribution systems serving patient care areas are under	2.1-8.4.3.2 (1)	Handwashing Station Sinks: designed with basins & faucets that reduce risk of splashing to
	constant recirculation non-recirculated fixture branch piping does not exceed 25'-0" in length	(2)	areas where direct patient care is provided, sterile procedures are performed, medications are prepared or food is prepared
(3)(a)	no installation of dead-end	(2)	sink basins have nominal size of no less than 144 square inches
(3)(c)	piping (except for empty risers mains & branches for future use)		sink basins have min dimension

(3)	sink basins are made of porcelain stainless steel or solid-surface materials	2.1-8.5.1.1(5)	Wireless nurse call system □ check if <u>not</u> included in project complies with UL 1069
(5)(7)	 water discharge point of faucets is at least 10" above bottom of basin anchored so that allowable 	2.1-8.5.1.2(4)	Nurse call system provided in each patient care area as required in Table 2.1-2
	stresses are not exceeded where vertical or horizontal force of 250 lbs. is applied	2.1-8.5.1.3	Bath Stations: bath station that can be
(8)	 sinks used by medical & nursing staff patients & public have fittings that can be operated without using hands (may be single-lever or wrist 	(1)	activated by patient lying on floor provided at each patient toilet alarm in these areas can be turned off only at bath station where it was initiated
(a)	blade devices) blade handles □ check if <u>not</u> included in project at least 4 inches in length	(3)	toilet bath stations located on the side of toilets within 12" of front of toilet bowl & 3'-0" to 4'-0" above floor
(b)	required for operation sensor-regulated water fixtures check if <u>not</u> included in project meet user need for	2.1-8.5.1.5	Emergency call stations are equipped with continuous audible or visual confirmation to person who initiated the code call
	temperature & length of time water flows designed to function at all times & during loss of	2.1-8.5.3	EMERGENCY COMMUNICATION SYSTEM Emergency-radio communication
2.1-8.4.3.4	normal power Ice-Making Equipment:	2.1-8.5.3.1	system provided in each facility operates independently of building's service & emergency power
2.1 0.4.0.4	copper tubing provided for supply connections to ice-making equipment	2.1-8.5.3.2	systems during emergencies frequency capabilities to communicate with state emergency communication networks
2.1-8.4.3.5 (1)	Clinical sinks: trimmed with valves that can are operated without hands	2.1-8.6.2	ELECTRONIC SURVEILLANCE SYSTEMS
(a) (b) (2)	(may be single-lever or wrist blade devices) handles are at least 6 in long integral trap wherein upper	2.1-8.6.2.1	 □ check if <u>not</u> included in project Display screens in patient areas are mounted in tamper-resistant enclosure that is unobtrusive
(-)	portion of water trap provides visible seal	2.1-8.6.2.2	Display screens are located so they are not readily observable by
2.1-8.4.4	MEDICAL GAS & VACUUM SYSTEMS Station outlets provided as indicated in Table 2.1-3	2.1-8.6.2.3	general public or patients Electronic surveillance systems receive power from essential electrical system
2.1-8.5.1	CALL SYSTEMS Nurse call stations provided as		
2.1-8.5.1.1(1) 2.1-8.5.1.1(2)	Nurse call stations provided as required in Table 2.1-2Nurse call systems report to attended		
∠. 1-∪.∪. 1. 1(∠)	location with electronically supervised visual & audible annunciation as		
2.1-8.5.1.1(4)	indicated in Table 2.1-2 Call system complies with UL 1069 "Standard for Hospital Signaling & Nurse Call Equipment"		