COMPLIANCE CHECKLIST

IP15_Surgical 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 2022 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 <u>not</u> be used for an existing required support space associated with a new patient care room or area.
- EX = 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 2.2-3.4.1.1 (4) (1) (2) (3)	Surgical Services Location & Layout:	
2.2-3.4.2 2.2-3.4.2.1(1)	PROCEDURE ROOMS □ check if <u>not</u> included in project Application:	
(a)	 room designated for the performance of patient care that requires high-level disinfection or sterile instruments & some environmental controls but not required to be performed with the environmental controls of an operating room hospital has completed clinical assessment of procedures to be performed to determine appropriate room type & location for procedures & documented this in functional program included in Project Narrative 	
2.2-3.4.2.1(2)	Location:	
(a)	procedure room meet requirements of semi-restricted area	
(b)	procedure room accessed from semi- restricted corridor or from unrestricted corridor	
2.2-3.4.2.2	Space Requirements:	
(1)(a)	min. clear floor area 130 sf	
(1)(b)	anesthesia machine & associated supply carts are used	
	□ check if <u>not</u> included in project min. clear floor area 160 sf	•
(1)(c)	 procedure room sized to accommodate personnel & equipment needed for particular procedures, procedure room sized to accommodate additional personnel & equipment that may be needed for emergency rescue 	
(2)(a)	 min. clearance 3'-6" on each side of table, gurney or procedural chair min. clearance 3'-0" at head & foot of table, gurney or procedural chair 	

Ventilation:	
Min. 15 air changes per hour	Table 7-1
Positive pressure	
No recirculating room units Power:	
Min. 12 receptacles in total	Table 2.1-1
Min. 8 receptacles convenient to table placement with at least one on each wall	
Nurse Call System:	
Emergency call station	Table 2.1-2
Medical Gases:	
1 OX, 2 VAC, 1 MA	Table 2.1-3

Architectural Requirements

	Architectural Requirements	Building Systems Requirements
(2)(b)	anesthesia machine & associated supply carts are used min. clearance 6'-0" at head of table, gurney or procedural chair	
2.2-3.4.2.3 (1)	 Documentation area accommodations for written and/or electronic documentation provided in procedure room 	
2.1-2.8.3.1	work surface to support documentation	
2.2-3.4.2.3(2)	use of documentation area allows for direct observation of patient	
2.2-3.4.2.4	Provisions made for patient privacy	
2.2-3.4.2.5 (1)	Handwashing Facilities: handwashing station located in procedure room	
(2)	or hand scrub station directly accessible* to procedure room	
2.2-3.4.3 2.2-3.4.3.1(1) (2)	OPERATING ROOMS Application: Rooms designated for invasive procedures as defined in Glossary procedures performed in aseptic surgical field & penetrates protective surfaces of patient body, may require entry into or opening of sterile body cavity, or involve insertion of indwelling foreign body, or include excision & grafting of burns procedures that do not begin as invasive procedures but have recognized measurable risks of requiring conversion to invasive procedures. Operating room meets requirements of	
	restricted area	
2.2-3.4.3.2	General Operating Room □ check if <u>not</u> included in project	Ventilation: <u>Min. 20 air changes per hour</u>
(3)	Space Requirements: (may include minor wall encroachments max. 12" deep by max. 10% of wall length)	Positive pressure No recirculating room units Lighting:
(1)(a) (1)(b)	 min. clear floor area 400 sf min. clearance 8'-6" on each side of operating table min. clearance 6'-0" at head of operating table anesthesia work zone with clear floor area 6'-0" x 8'-0" min. clearance 7'-0" at foot of operating table 	 General lighting in addition to special lighting units provided at surgical table Power: Min. 36 receptacles in total Min. 16 receptacles convenient to table placement Min. 2 on each wall Nurse Call System:

Ventilation:	
Min. 20 air changes per hour	Table 7-1
Positive pressure	
No recirculating room units	
Lighting:	
General lighting in addition to	
special lighting units provided	2.1-8.3.4.3(4)
at surgical table	(a)
Power:	
Min. 36 receptacles in total	Table 2.1-1
Min. 16 receptacles	
convenient to table placement	
Min. 2 on each wall	
Nurse Call System:	
Emergency call station	Table 2.1-2
Medical Gases:	Table 2.1-3

2 OX, 5 VAC, 1 MA, 1 WAGD

Architectural Requirements

2.2-3.4.3.3	Documentation area	
(1)	accommodations for written and/or electronic documentation	
(2)	use of documentation area allows for direct observation of patient	
2.2-3.4.3.4	 Visual information display at least one medical visual information display provided in operating room 	
2.2-3.4.3.5(3) (a)	Communications System: all operating rooms are equipped with emergency communication system that incorporates push activation of emergency call switch	
(b)	emergency call switch each operating room have system for emergency communication with surgery department control station	
(2)	Operating room for image-guided surgery □ check if <u>not</u> included in project	.,
(3)	Space Requirements: (may include minor wall encroachments of max. 12" deep by max. 10% of wall length)	Ve
	uses portable imaging equipment or surgical procedures that require additional personnel and/or large equipment	Lig
(a)	sized to accommodate personnel & equipment planned to be in room during procedures	Po
	New Construction & Major Renovations:	Nu
	min. clear floor area 600 sf min. clear dimension 20'-0" or	Me
(b)	Limited Renovations: min. clear floor area 500 sf min. clear dimension 20'-0"	
2.2-3.4.3.3	Documentation area	
(1)	accommodations for written and/or electronic documentation	
(2)	use of documentation area allows for direct observation of patient	
2.2-3.4.3.4 2.2-3.4.3.5(3)	Medical image viewers (e.g. X-ray film or digital) Communications System:	

Ventilation:	
Min. 20 air changes per hour	
Positive pressure	Table 7-1
No recirculating room units	
Lighting:	
General lighting in addition to	2.1-8.3.4.3(4)
special lighting units provided	(a)
at surgical table	
Power:	
Min. 36 receptacles in total	Table 2.1-1
Min. 16 receptacles	
convenient to table placement	
Min. 2 on each wall	
Nurse Call System:	
Emergency call station	Table 2.1-2
Medical Gases:	
2 OX, 5 VAC, 1 MA, 1 WAGD	Table 2.1-3

Building Systems Requirements

Table 7-1

Table 2.1-3

Architectural Requirements ____ all operating rooms are e

(a)	all operating rooms are equipped with emergency communication system that incorporates push activation of emergency call switch
(b)	each operating room have system for emergency communication with surgery department control station
2.2-3.4.3.6	Equipment storage rooms for open-heart or complex orthopedic & neurosurgical surgery provided in semi-restricted area
2.2-3.4.4	HYBRID OPERATING ROOM Check if not included in project
2.2-3.4.4.1	Application: hybrid operating rooms (Class 3 imaging rooms)
2.2-3.4.4.2 2.2-3.4.3.2 (3) (1)(a) (1)(b)	Space Requirements: (may include minor wall encroachments max. 12" deep by max. 10% of wall length) min. clear floor area 400 sf min. clearance 8'-6" on each side of operating table min. clearance 6'-0" at head of operating table anesthesia work zone with
	clear floor area 6'-0" x 8'-0" min. clearance 7'-0" at foot of operating table
2.2-3.4.4.2(1)	clear floor area, clearance & storage requirements for imaging equipment contained in room
2.2-3.4.4.2(2)	any mobile storage units do not encroach on required clear floor area & clearances
2.2-3.4.2.2(1)	imaging rooms are sized & configured to comply with manufacturer's

recommendations for installation

installation plans from

to DPH Plan Review

electronic documentation

direct observation of patient

accommodations for written and/or

use of documentation area allows for

Medical image viewers (e.g. X-ray film or digital)

manufacturer have been submitted

service & maintenance

Documentation area

Positive pressure ____ No recirculating room units Lighting: General lighting in addition to 2.1-8.3.4.3(4) special lighting units provided (a) at surgical table Power: Min. 36 receptacles in total Table 2.1-1 Min. 16 receptacles convenient to table placement Min. 2 on each wall Nurse Call System: ____ Emergency call station Table 2.1-2

____ 2 OX, 5 VAC, 1 MA, 1 WAGD

Min. 20 air changes per hour

at

Ventilation:

Medical Gases:

Building Systems Requirements

2.2-3.4.3.3

2.2-3.4.3.4

(1)

(2)

Building Systems Requirements $2.2 - 3.4 \cdot 3.5(3)$ Communications System: (a) all operating rooms are equipped with emergency communication system that incorporates push activation of emergency call switch (b) each operating room have system for emergency communication with surgery department control station 2.2-3.4.4.3 Control room (1) sized & configured in compliance with manufacturer recommendations for installation service & maintenance (2) control room physically separated from hybrid operating room with walls & door or open control area serves only one operating room & is built maintained & controlled same as operating room (4) view panels that provide for view of patient & surgical team 2.2-3.4.4.4 Structural Support: floor & ceiling structures designed to support weight of imaging equipt as well as other fixed ancillary equipt & movable ancillary equipt 2.2-3.4.4.5 Hybrid operating room protected from disruptive environmental vibrations & other disturbances in accordance with imaging equipment manufacturer's technical specifications 2.2-3.4.4.6 System component room 2.2-3.4.2.5(1) Location: accessed only from unrestricted or (a) semi-restricted space outside imaging room 2.2-3.4.2.5(2) Space Requirements: room sized to accommodate following as indicated by imaging equipment manufacturer (a) transformers power distribution equipment (b) (c) power conditioning/UPS equipment (d) computers associated electronics & (e)

Architectural Requirements

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Building Systems Requirements

Architectural Requirements

2.2-3.4.4.7 2.2-3.4.1.3	 Radiation Protection: □ check if <u>not</u> included in project (only if imaging equipment does not emit ionizing radiations) certified radiation physicist has specified type, location & amount of radiation protection specifications of radiation shielding have been submitted to DPH Radiation Control Program
2.2-3.4.4.8	Specific requirements for hybrid operating rooms with intraoperative computerized tomography (CT) systems: check if <u>not</u> included in project
2.2-3.4.4.8(1)	
2.2-3.4.1.3(1)	Shielded control room
(a)	Space Requirements: sized & configured according to
	manufacturer recommendations
(c)	shielded view window
	designed to provide full view of
	patient at all times (use of
	additional closed-circuit video
(d)	monitoring permitted) control room enclosed with
(u)	walls & door
2.2-3.4.4.8(2)	Specific Requirements for Hybrid Operating
	Rooms with Intraoperative MRI Systems:
0 0 0 4 5 4	□ 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 &
(1)	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
	· · · · · · · · · · · · · · · · · · ·

Architectural Requirements Building Systems Requirements (2) MRI suite as well as spaces around, above & below designed to prevent unscreened individuals from entering 5-gauss volume around MRI equipment (3) Specific Support Areas for MRI Suite: space for patient interviews & (a) clinical screening space for physical screening (b) ____ ferromagnetic (only) detection & (c) warning systems access controls (d) ____ space to accommodate site-specific (e) clinical & operational requirements such as image-guided procedures emergent imaging or general anesthesia support □ check if not included in project space for containment of non-MRI-(f) safe objects outside restricted MRI safetv zones space for storage (patient lockers) (g) of patient belongings & non-MRIsafe 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 2.2-3.4.5.4 MRI control room operator console positioned so (1) 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 2.2-3.4.1.3(1) Space Requirements: sized & configured according to (a) manufacturer's recommendations installation plans from ____ manufacturer have been submitted to DPH Plan Review 2.2-3.4.1.3(1) shielded view window designed to (c) 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 monitorina permitted)

MDPH/DHCFLC

Ar	chitectural Requirements	Building Systems Requirements	
2.2-3.4.5.9	Special Design Elements for MRI Scanner Room:		
(1)(a)	ferromagnetic materials that may become detached or otherwise interfere with operation of MRI scanner are not used in MRI scanner rooms	Superconducting MRI cryogen venting: Cryogen vent (quench) pipe is provided in accordance with equipment manufacturer's technical specifications (for MRI equipment protection)	2.2-3.5.5.3 (1)
(1)(b)	MRI scanner room be located and/or shielded to avoid electromagnetic interference from elevators or other electromagnetic equipment	Cryogen venting points of discharge: clearly marked & shielded from staff & maintenance personnel areas substantially removed from all public & patient routes of travel	(a)
(2)(a)	floor structure designed to support weight of MRI scanner equipment minimize disturbance to MRI magnetic field & mitigate disruptive environmental vibrations	minimum clearances from air intakes operable windows or doors as defined by MRI system manufacturer	(b)
(2)(b)	MRI rooms be marked with lighted sign with red light to indicate that magnet is always on	designed with weather head sufficient to protect against horizontally driven rain	(c)
(2)(c)	acoustic control provided to mitigate noise emitted by MRI scanner per Table 1.2-6	 Accessible areas around cryogen vent discharge marked to indicate safety exclusion zone in accordance with MRI equipment manufacturer standards Emergency exhaust & passive pressure relief provided in accordance with equipment manufacturer's technical specifications for building occupant protection 	(d) (2)
2.2-3.4.4.8(3)	Specific Requirements for Hybrid Operating Rooms with Vascular Imaging Systems: □ check if <u>not</u> included in project		
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)	control room enclosed with walls & door		

	Architectural Requirements	Bui
2.2-3.4.5 2.1-3.4.1.1	PRE- & POSTOPERATIVE PATIENT CARE AREAS Patient care stations accommodate lounge chairs, gurneys or beds for pre- & post-procedure (recovery) patient care Patient care stations accommodate seating	
2.1-3.4.1.2 2.1-3.4.1.3(2) (a)	space for family/visitors Location in unrestricted area Layout: combination of pre- & post-procedure patient care stations in one area patient care stations combined in same area meet most restrictive requirements of areas to be	
(b)	or separate pre-procedure patient care area & post-procedure recovery area patient care stations combined in same area meet most restrictive requirements of areas to be combined	
(c)	or three areas: pre-procedure patient care area Phase I post-anesthetic care unit (PACU) & Phase II recovery area	
2.1-3.4.1.4 (1)	Number of Patient Care Stations: 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	
(2)	for each operating room separate pre-procedure & recovery areas check if <u>not</u> included in project	
2.1-3.4.3	pre-procedure patient care room or area provides at least one patient care station per imaging room, procedure room or operating 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 or operating room	
2.1-3.4.5	Phase II recovery room(s) or area minimum of one Phase II patient care station per operating room	

Ar	rchitectural Requirements	Building Systems Requirements	
2.1-3.4.2.2	Space Requirements:		
(2)(a)	patient care bays □ check if <u>not</u> included in project	Ventilation: <u>Min. 6 air changes per hour</u> No recirculating room units	Table 7-1
	 min. clearance 5'-0" between sides of patient beds/gurneys/lounge chairs min. clearance 3'-0" between sides of patient beds/gurneys/lounge chairs & adjacent* walls or partitions 	Power: Min. 8 receptacles in total convenient to head of gurney or bed Nurse Call System:	Table 2.1-1
	min. clearance 2'-0" between foot of patient beds/gurneys/lounge	Emergency call station Medical Gases:	Table 2.1-2
	chairs & cubicle curtain	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 of patient beds/gurneys/lounge chairs & adjacent* walls or partitions	Ventilation: Min. 6 air changes per hour No recirculating room units	Table 7-1
	min. clearance 2'-0" between foot of patient beds/gurneys/lounge chairs & cubicle curtain	Power: Min. 8 receptacles in total convenient to head of gurney or bed	Table 2.1-1
		Nurse Call System: Emergency call station Medical Gases:	Table 2.1-2
		1 OX, 3 VAC, 1 MA per station	Table 2.1-3
	 bays or cubicles face each other □ check if <u>not</u> included in project aisle with min. clearance 8'-0" independent of foot clearance between patient stations or other fixed objects 		
(2)(c)	single-patient rooms □ check if <u>not</u> included in project		
	 min. clearance 3'-0" between sides & foot of beds/gurneys/lounge chairs & adjacent* walls or partitions 	Ventilation: Min. 6 air changes per hour No recirculating room units	Table 7-1
		Power: <u>Min. 8 receptacles in total</u> <u>convenient to head of</u> <u>gurney or bed</u>	Table 2.1-1
		Nurse Call System: Emergency call station Medical Gases:	Table 2.1-2
		1 OX, 3 VAC, 1 MA per station	Table 2.1-3
2.1-2.4.2	Airborne infection isolation (AII) room in pre-procedure & recovery areas		
2.1-2.4.2.2	complies with requirements applicable to single-patient rooms	Ventilation: Min. 12 air changes per hour	Table 7-1
(2)	personal protective equipment (PPE) storage at entrance to room	Exhaust Negative pressure	
(3)	handwashing station	No recirculating room units	

Architectural Requirements Building Systems Requirements (4) Ventilation: patient toilet room Min. 10 air changes per hour Table 7-1 serves only one AII room Exhaust Negative pressure No recirculating room units 2.1-2.4.2.3 anteroom □ check if not included in project (1) Ventilation: provides space for persons to don Min. 10 air changes per hour Table 7-1 personal protective equipment Exhaust (PPE) before entering patient room No recirculating room units (2) all doors to anteroom have self-closing devices or audible alarm activated when AII room is in use as isolation room (3)(a)handwashing station (3)(b)storage for unused PPE (3)(c)disposal/holding container for used PPE 2.1-2.4.2.4 Architectural Details & Furnishings: (1)(a)perimeter walls ceiling & floor including penetrations constructed to prevent air exfiltration (1)(b)self-closing devices on all room exit doors or activation of audible alarm when AII room is in use as isolation room edge seals provided along sides & top of doorframe for any door into AII room 2.1-2.4.2.5 room pressure visual or audible alarm 2.1-3.4.2.4 Patient Privacy: 2.1-2.1.2 provisions are made to address patient visual & speech privacy Handwashing stations 2.1-3.4.2.5 2.1-2.8.7.1 located in each room where hands-on patient care is provided 2.1-2.8.7.3 handwashing station serves multiple patient care stations □ check if <u>not</u> 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

	Architectural Requirements	Building Systems Requirements	
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		
2.2-3.4.5.8	SUPPORT AREAS FOR PRE- & POST-OPERATIVE PATIENT CARE AREAS		
2.2-3.4.5.8(1)	General support areas in this section are provided in or directly accessible* to pre- & postoperative patient care areas		
2.2-3.4.5.8(2) 2.1-2.8.2	Nurse station		
2.1-2.8.2.1(1)	space for counters		
2.1-2.8.2.1(2)	handwashing station next to or directly accessible* or hand sanitation dispenser next to or		
	directly accessible*		
2.1-2.8.2.2	Center for reception & communication self-contained or combined with administrative center or nurse station		
2.1-2.8.3	Documentation area		
2.1-2.8.3.1	work surface to support documentation process		
2.2-3.4.5.8(7)	Clinical sink		
2.2-3.4.5.8(8)	Medication safety zone		
(a)	provided in postoperative patient care areas		
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 2.1-2.8.8.1(2)(min. 100 foot-candles	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

2.1-2.8.8.2(1)	medication preparation room		
(a)	under visual control of nursing staff	Ventilation:	
(b)	work counter	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 <u>not</u> included in project		
(c)	self-contained		
	medication-dispensing unit		
	\Box check if <u>not</u> included in project		
	room designed with space to		
	prepare medications		
2.1-2.8.8.2(2)	or		
	automated medication-dispensing unit	Lighting:	
(a)	located at nurse station, in clean workroom or in alcove	Task lighting	2.1-2.8.8.1(2)(d)
(c)	handwashing station or hand		
(-)	sanitation dispenser located next		
	to stationary medication-		
	dispensing units or stations		
2.2-3.4.5.8(9)	Nourishment area	Ventilation:	
2 4 2 8 0 2/4)	provided in unrestricted patient care area	Min. 2 air changes per hour	Table 7-1
2.1-2.8.9.2(1)	handwashing station		
2.1-2.8.9.2(2)	work counter		
2.1-2.8.9.2(3)	refrigerator		
2.1-2.8.9.2(4)	microwave		
2.1-2.8.9.2(5)	storage cabinets		
2.1-2.8.9.2(6)	space for temporary storage of food service implements		
2.1-2.8.9.3	provisions & space for separate		
2.1 2.0.0.0	temporary storage of unused meal trays		
2.1-2.8.9.4	provisions & space for soiled meal trays		
2.2-3.4.5.8(10)	lce-making equipment		
(b)	not located in semi-restricted area		
2.2-3.4.5.8(12)			
2.2-3.4.7.12 (1)(a) -	Soiled workroom or soiled holding room		
(1)(a)	(may be combined with Decontamination Room in Sterile Processing Facility)		
(1)(b)	separate soiled workrooms or holding		
	rooms for unrestricted area and semi-		
	restricted area		
	or		
	soiled workroom or holding room		
	shared between unrestricted area and semi-restricted area		
	direct access provided from semi-		
	restricted area		
	separate entrance provided from		
	unrestricted area		
-			

	Architectural Requirements	Building Systems Requirements	
(c)	soiled workroom or holding room do not have direct connection with operating rooms or other sterile activity rooms		
2.1-2.8.12.2 (1)(a) (1)(b)	soiled workroom handwashing station flushing-rim clinical service sink	Ventilation: Min. 10 air changes per hour Exhaust	Table 7-1
	with bedpan-rinsing device or equivalent flushing-rim fixture	Megative pressure No recirculating room units	
(1)(c) (1)(d)	work counter space for separate covered		
(2)	containers for waste & soiled linen fluid management system is used □ check if <u>not</u> included in project		
(a)	electrical & plumbing connections that meet		
(b)	manufacturer requirements space for docking station or		
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	
2.2-3.4.7.12(3) (b)	other provisions for disposal of liquid waste are made		
2.2-3.4.5.9	SUPPORT AREAS FOR STAFF		
	Staff toilet room located in postoperative patient care area to maintain staff availability to patients		
2.2-3.4.5.10 (1)	SUPPORT AREAS FOR PATIENTS & VISITORS Patient toilet room		
(1) (a)	Location:		
Errata	directly accessible* to pre- & postoperative patient care area private toilet room directly		
	accessible* from each pre- & postoperative single-patient room used for Airborne Infection Isolation check if <u>not</u> included in project (only if no AII rooms are provided in pre- & post-operative areas)		
(b)	Number: one patient toilet for each eight patient care stations or fewer & for each major fraction thereof		

	Architectural Requirements	Building Systems Requirements
2.2-3.4.6	SUPPORT AREAS IN SEMI-RESTRICTED AREA	
2.2-3.4.6.2	Nurse or control stations	
(1)	access through all entries to semi-	
	restricted area must be controlled	
(2)	nurse or control station located in semi-	
	restricted area	
	or nurse or control station located in	
	unrestricted area	
	directly accessible* to semi-restricted	
	area	
(3)	nurse or control station permits direct or	
	remote visual observation of traffic into	
	the semi-restricted area	
2.2-3.4.6.6	Hand scrub facilities	
2.1-2.8.6.1	at least one hand scrub position for	
	each operating room	
	located next to entrance to each room	
2.1-2.8.6.2	(one hand scrub station consisting of	
2.1-2.0.0.2	two scrub positions may be shared if	
	located adjacent* to entrance of each room)	
2.1-2.8.6.3	placement of scrub station does not	
	restrict min. required corridor width	
2.2-3.4.6.13(1)	Emergency equipment storage	
2.1-2.8.13.4(1)	each patient care unit has at least one	
2128121(2)	emergency equipment storage location	
2.1-2.8.13.4(2) 2.1-2.8.13.4(3)	provided under visual observation of staff	
2.1-2.0.13.4(3)	storage locations in corridors do not encroach on minimum required	
	corridor width	
(2)	Bed or gurney storage	
	storage provided for bed or gurney on which the patient is transported to the	
	operating room or the bed or gurney to	
	be used for transportation after surgery	
(a)	storage area (e.g. corridor alcove) is	
	located in the semi-restricted area	
(c)	adjacent to operating room bed storage area is in addition to clean	
(0)	equipment and clean & sterile supply	
	storage	
2.2-3.4.6.14		
(1)	Environmental services room	
(1) (2)	not shared with other areas accessed from semi-restricted corridor	
(2) 2.1-2.8.14.2(1)	service sink or floor-mounted mop sink	
2.1-2.8.14.2(2)	provisions for storage of supplies &	Ventilation:
2.1.2.0.1.1.2(2)	housekeeping equipment	Min. 10 air changes per hour
		_ • •

Building Systems Requirements

Table 7-1

	Architectural Requirements	Building Systems Requirements
2.1-2.8.14.2(3)	handwashing station or hand sanitation station	 Exhaust Negative pressure No recirculating room units
2.2-3.4.6.15 2.1-5.1.2	"SATELLITE" STERILE PROCESSING FACILITIES □ check if <u>not</u> included in project (only if hospital includes a Central Processing Department or if contractual arrangements are made for off-site processing and support areas for off-site processing are provided in hospital)	
2.1-5.1.2.1(2) 2.1-5.1.2.1(3)	Sterile processing facility meet requirements of semi-restricted area Layout:	
045400	sterile processing facilities designed to provide one-way traffic pattern	
2.1-5.1.2.2 (1)(a)	 Two-room sterile processing facility check if <u>not</u> included in project decontamination room & clean workroom physically separated by wall containing door or pass-through window or 	
	built-in washer/disinfector with pass-through door or window	
(1)(b)	Sterilizer access room for maintaining equipment □ check if <u>not</u> included in project	
(2) (a)	Decontamination room sized to meet min. equipment space & clearances needed for equipment used equipment shown on plans	Ventilation: Min. 6 air changes per hour Table 7-1 Exhaust
(b)	work counter(s) handwashing station three-basin sink with counter	Negative pressure No recirculating room units
	flushing-rim clinical sink or equivalent fixture or	
	alternative methods for disposal of bio-waste	
	space for waste & soiled linen receptacles documentation area instrument air outlet for drying	
	or portable compressed air for drying instruments	
	storage for decontamination supplies & personal protective equipment (PPE)	

Architectural Requirements	Building Systems Requirements	
 Clean workroom sized to accommodate sterilization equipment used equipment shown on plans work counter handwashing station storage for sterilization supplies documentation area instrument air outlet for drying 	Ventilation: Min. 4 air changes per hour Positive pressure No recirculating room units	Table 7-1
or portable compressed air for drying instruments cooling area for sterilization cart check if <u>not</u> included in project		
Sterile storage (provided for storage of	Ventilation	
area part of clean workroom or	Min. 4 air changes per hour Positive pressure	Table 7-1
space for case cart storage check if <u>not</u> included in project (only if case carts are not used)		
One-room sterile processing facility		
consists of decontamination area &		
two entrances		
single entrance located approximately equidistant from clean & decontamination sides of room allows for one-way traffic flow		
 decontamination area countertop two-basin sink for washing instruments handwashing station separate from instrument-washing sink storage for supplies instrument air outlet for drying instruments or portable compressed air for drying instruments 	Ventilation: Min. 6 air changes per hour Exhaust Negative pressure No recirculating room units	Table 7-1
	 sized to accommodate sterilization equipment used equipment shown on plans work counter handwashing station storage for sterilization supplies documentation area instrument air outlet for drying instruments portable compressed air for drying instruments cooling area for sterilization cart check if <u>not</u> included in project Sterile storage (provided for storage of sterile instruments & supplies) area part of clean workroom separate storage room space for case cart storage check if <u>not</u> included in project (only if case carts are not used) One-room sterile processing facility check if <u>not</u> included in project consists of decontamination area & clean work area two entrances single entrance located approximately equidistant from clean & decontamination sides of room allows for one-way traffic flow decontamination area two-basin sink for washing instruments handwashing station separate from instrument air outlet for drying instrument are outlet for drying instruments 	 sized to accommodate sterilization equipment used gequipment shown on plans work counter handwashing station storage for sterilization supplies documentation area instruments or portable compressed air for drying instruments cooling area for sterilization cart check if <u>not</u> included in project Sterile storage (provided for storage of sterile instruments & supplies) area part of clean workroom space for case cart storage check if <u>not</u> included in project One-room sterile processing facility check if <u>not</u> included in project colean work area two entrances or allows for one-way traffic flow decontamination area allows for one-way traffic flow matuments matuments storage for supplies instruments matuments matuments matuments matuments motion clean splate from instruments matuments matument

	Architectural Requirements	Building Systems Requirements	
(b)	 instrument-washing sink separated from clean work area by 4'-0" foot distance from edge of sink or instrument-washing sink separated from clean work area by wall or instrument-washing sink separated from clean work area by screen		
(3) (a) (b) (c) (d)	<pre> clean work area countertop sterilizer storage for supplies instrument air outlet for drying instruments or portable compressed air for drying instruments</pre>	Ventilation: Min. 4 air changes per hour Positive pressure No recirculating room units	Table 7-1
2.1-5.1.2.4 (1)	Equipment & supply storage instrument & supply storage provided for sterile & clean instruments & supplies	Ventilation: Min. 4 air changes per hour Positive pressure	Table 7-1
(a)	or portion of clean workroom		
(b)	space for case cart storage □ check if <u>not</u> included in project (only if case carts are not used in facility)		
(2)	clean/sterile medical/surgical supply receiving room	Ventilation: Min. 4 air changes per hour Positive pressure	Table 7-1
2.1-5.1.2.5 (1)(a)	Support Areas for Staff: separate changing areas provided for male & female staff (unisex changing area with one or more private changing rooms is permitted)		
(1)(b) (1)(c)	staff changing areas meet requirements of unrestricted area (may be shared with other departments or services)		
(2)(a) (2)(b)	lockers toilet room	Ventilation:	
(2)(c)	handwashing station	 Min. 10 air changes per hour Exhaust Negative pressure No recirculating room units 	Table 7-1
(2)(d) (2)(e)	space for donning surgical attire provision for separate storage of clean & soiled work attire		

	Architectural Requirements	Building Systems Requirements
2.2-3.4.7	SUPPORT AREAS DIRECTLY ACCESSIBLE TO SEMI-RESTRICTED AREA	
2.2-3.4.7.12	Soiled workroom or soiled holding room	
(c)	no direct connection with operating	
	rooms or other sterile activity rooms	
2.1-2.8.12.2	soiled workroom	Ventilation:
(1)(a)	handwashing station	Min. 10 air changes per hour Table 7-1
(1)(b)	flushing-rim clinical service sink	Exhaust Negative pressure
	with bedpan-rinsing device or equivalent flushing-rim fixture	No recirculating room units
(1)(c)	work counter	
(1)(d)	space for separate covered	
(2)	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	
(b)	manufacturer requirements	
(6)	or space for docking station	
2.1-2.8.12.3	soiled holding room	Ventilation:
(1)	handwashing station or hand	Min. 10 air changes per hour Table 7-1
(2)	sanitation station	Exhaust Negative pressure
(2)	space for separate covered containers for waste & soiled linen	No recirculating room units
2.2-3.4.7.12(3)	other provisions for disposal of	
	liquid waste are provided and	
	described in Project Narrative	
2.2-3.4.7.13	Clean equipment & clean & sterile supply	Ventilation:
	storage used in the semi-restricted & restricted areas	Min. 4 air changes per hour Table 7-1 Positive pressure
	-	No recirculating room units
(1)(a)	one storage room	
	or combination of storage rooms	
	• <u> </u>	
(1)(b)	Location storage room or area is separate from	
	& has no direct connection with soiled	
	holding room storage room or area is directly	
	accessible to the semi-restricted area	
	(is permitted to be directly accessible to	
	operating rooms)	
(1)(d)	storage room or area is directly	
	accessible to operating room	
	designated as semi-restricted or restricted as needed by facility	
	operations	
	or	

	Architectural Requirements	Building Systems Requirements
(1)(e)	storage room or area is directly accessible to only a semi-restricted area	
	designated as semi-restricted area.	
(2) (a)	Space requirements each surgical suite has at least 300 sf or 100 sf per operating room for clean equipment and supply storage, whichever is greater	
(3)	 Documentation area □ check if <u>not</u> included in project documentation area located in this storage room is in addition to documentation area in operating room 	
(4)	No sink in this storage room	
(5)	No sterilizer in this storage room	
2.2-3.4.8	OTHER SUPPORT AREAS IN SURGERY DEPARTMENT	
2.2-3.4.8.13(1)	Clean linen storage (may be in designated location in clean supply & equipment storage room)	
(3)	Storage space for gurneys, stretchers & wheelchairs	
(5)	 Medical gas storage space for supply & storage of medical gases used in facility including space for reserve cylinders provided protected in accordance with NFPA 99 Health Care Facilities Code 	
(6)	Storage for large clinical equipment □ check if <u>not</u> included in project	
2.2-3.4.8.16	Storage for blood, organs, tissue & pathological specimens	
(1)	equipment temperature controls alarms & monitoring	
2.1-4.1.2.3 (1) (2)	Refrigerated storage facilities refrigerator blood storage facilities	
2.2-3.4.8.17	Area for preparation & examination of frozen sections	
	located in Surgical Department or	
	located in general laboratory immediate results are obtainable	

	Architectural Requirements	Building Systems Requirements	
2.2-3.4.9 2.2-3.4.9.1	SUPPORT AREAS FOR SURGERY DEPARTMENT STAFF Staff lounge		
2.2-3.4.9.4 (1)	 Staff changing area & toilet facilities one or more private changing rooms or areas for male & female staff working in semi-restricted & restricted areas of surgery department 		
(2)(a) (2)(b) (2)(c)	lockers showers toilets	Ventilation: Min. 10 air changes per hour Exhaust Negative pressure No recirculating room units	Table 7-1
(2)(d) (2)(e) (2)(f)	 handwashing stations space for donning & doffing surgical attire provisions for separate storage of clean & soiled surgical attire 		
2.2-3.4.10	SUPPORT AREAS FOR PATIENTS FAMILIES & VISITORS		
2.2-3.4.10.3 (2)	 Patient changing area □ check if <u>not</u> included in project (only if patients are assigned private holding rooms or cubicles) 		
(1)(a)	provisions for storing patients' belongings during procedures		
(1)(b)	toilet room	Ventilation: Min. 10 air changes per hour Exhaust Negative pressure No recirculating room units	Table 7-1
(1)(c)	space for changing or gowning		
2.2-3.4.10.4	Waiting area for families & visitors		

*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

Adjacent: Located next to but not necessarily connected to the identified area or room

Immediately accessible: 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

Architectural Details & MEP Requirements

2.1-7.2.2	ARCHITECTURAL DETAILS		Aisles, corridors & ramps in adjunct areas not intended for the treatment
2.1-7.2.2.1 NFPA 101, 18.2.3.3	CORRIDOR WIDTH: Aisles, corridors & ramps required for exit access in a hospital not less		or use of inpatients not less than 44" in clear & unobstructed width
	than 8'-0" in clear & unobstructed width or	2.1-7.2.2.2 (1)	CEILING HEIGHT: Min. ceiling height 7'-6" in corridors & in normally unoccupied spaces
	Detailed code review incorporated in Project Narrative	(2)	Min. ceiling height 9'-0" in seclusion rooms & secure holding rooms

(3)	 Min height 7'-6" above floor of suspended tracks rails & pipes located in traffic path for patients in beds & on stretchers Min ceiling height 7'-10" in other areas 	2.1-7.2.2.7	GLAZING MATERIALS: Glazing within 1 foot 6 inches of floor □ check if <u>not</u> included in project must be safety glass, wire glass or plastic break-resistant material
2.1-7.2.2.3	DOORS & DOOR HARDWARE:		[
(1)	Door Type:	2.1-7.2.2.8	HANDWASHING STATIONS:
(a)	doors between corridors,	(1)(c)	— Handwashing stations in patient
	rooms, or spaces subject to		care areas located so they are
(6)	occupancy swing type or		visible & unobstructed
(b)	sliding doors sliding doors	(3)	
	□ check if <u>not</u> included in project	(a)	— Handwashing station countertops made of porcelain, stainless steel,
	manual or automatic		solid-surface materials or impervious
	sliding doors comply with		plastic laminate assembly
	NFPA 101	(b)	Countertops substrate
	detailed code review		check if not included in project
	incorporated in Project		marine-grade plywood (or
	Narrative		equivalent material) with
(0)	no floor tracks		impervious seal
(2)	Door Opening: min. 45.5" clear door width for	(4)	Handwashing station casework
(a)	diagnostic/treatment areas		□ check if <u>not</u> included in project
	min. 83.5" clear door height for		designed to prevent storage beneath sink
	diagnostic/treatment areas	(5)	Provisions for drying hands
(b)	swinging doors for personnel	(0)	□ check if <u>not</u> included in project
	use in addition to sliding doors		(only in the case of hand scrub
	check if <u>not</u> included in project		facilities)
	min. clear width 34.5"	(a)	hand-drying device does not
(2)	Door Swing:		require hands to contact
(3) (a)	doors do not swing into corridors	(1)	dispenser
(u)	except doors to non-occupiable	(b)	hand-drying device is enclosed to protect against dust or soil & to
	spaces (e.g. environmental		ensure single-unit dispensing
	services rooms & electrical	(6)	liquid or foam soap dispensers
	closets) & doors with emergency	(7)	No mirror at hand scrub stations or
	breakaway hardware		at handwashing stations in clean &
(A)	Lover bordware, or pueb/pull leteb		sterile supply areas
(4)	Lever hardware or push/pull latch hardware	2.1-7.2.2.9	GRAB BARS:
	Ilaidwale	(1)	Grab bars anchored to sustain
(5)	Doors for Patient Toilet Facilities:		concentrated load 250 pounds
(a)	two separate doors	(3)	Ends of grab bars constructed to
	or		prevent snagging clothes of patients
	door that swings outward		staff & visitors
	or	2.1-7.2.2.10	HANDRAILS:
	door equipped with emergency rescue hardware (permits quick	(1)	— Handrails installed on both sides of
	access from outside the room to		patient use corridors
	prevent blockage of the door)	(3)	Rail ends return to wall or floor
	or	(4)	— Handrail gripping surfaces & fasteners are smooth (free of sharp
	sliding door other than pocket		or abrasive elements) with 1/8-inch
	door		min. radius
(h)	toilot room onone ante aublie	(5)	— Handrails have eased edges &
(b)	toilet room opens onto public area or corridor		corners
	□ check if <u>not</u> included in project	(6)	Handrail finishes are cleanable
	visual privacy is maintained		

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 protection has been submitted separately to the DPH Radiation Control Program
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 over operating suites or Special provisions are made to minimize impact noise
(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
-	FLOORING & WALL BASES:
2.1-7.2.3.1	
(1)	Flooring surfaces cleanable &
	wear-resistant for location
(3)	Smooth transitions provided
	between different flooring materials
(4)	— Flooring surfaces including those on stairways are stable, firm &
	slip-resistant
(5)	Floors & wall bases of soiled
(7)(a)	 workrooms, toilet rooms & other areas subject to frequent wet cleaning are constructed of materials that are not physically affected by germicidal or other types of cleaning solutions Floors are monolithic & integral coved wall bases are at least 6" high & tightly sealed to wall in rooms listed below: operating room procedure rooms where cystoscopy, urology, & endoscopy procedures are performed check if not included in project airborne infection isolation (AII) room soiled workroom & soiled holding room
2.1-7.2.3.2	WALLS & WALL PROTECTION:
(1)(a)	Wall finishes are washable
(1)(b)	Wall finishes near plumbing fixtures
	are smooth, scrubbable &
	water-resistant

(2)	 Wall surfaces in areas routinely subjected to wet spray or splatter (e.g. environmental services rooms) are monolithic or have sealed seams that are tight & smooth Wall protection devices & corner guards durable & scrubbable
2.1-7.2.3.3 (1) (a) (b)	CEILINGS: Ceilings provided in all areas except mechanical, electrical & communications equipment rooms Ceilings cleanable with routine housekeeping equipment Acoustic & lay-in ceilings where used do not create ledges or crevices
(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
(b)	lay-in ceilings gasketed or each ceiling tile weighs at least one
(c)	pound per square foot use of perforated tegular serrated or highly textured tiles not are permitted in semi-restricted areas or
	ceilings of monolithic construction
(3)	Restricted Areas:
(3)	□ check if <u>not</u> included in project
(a)	ceilings of monolithic construction (except for central diffuser array)
(b)	 modular or prefabricated laminar (or controlled) flow ceiling system in operating rooms & Class 3 imaging rooms/hybrid operating rooms in place of monolithic ceiling construction check if <u>not</u> included in project seams & access doors are continuously gasketed. assembly is constructed with structural frame engineered & rated for systems supported & equipped with seismic bracing as required accommodations are made to provide access for testing maintenance & replacement of items

	 diffuser arrangement & airflow design complies with ASHRAE 170 (see below) devices & related controls are UL/ETL labeled 	Part 3/6.2 Part 3/6.2.1	AIR-HANDLING UNIT (AHU) DESIGN: AHU casing is designed to prevent water intrusion resist corrosion & permit access for inspection & maintenance
(c) (d)	 ceiling finishes scrubbable & capable of withstanding cleaning & disinfecting chemicals access openings are gasketed 	Part 3/6.3 Part 3/6.3.1 Part 3/6.3.1.1	OUTDOOR AIR INTAKES & EXHAUST DISCHARGES: Outdoor Air Intakes: located such that shortest
2.1-7.2.4 2.1-7.2.4.1	FURNISHINGS: built-in furnishings upholstered with impervious materials in patient treatment areas with risks of exposure & contamination from bodily fluids & other fluids		distance from intake to any specific potential outdoor contaminant source be equal to or greater than separation distance listed in Table 6-1 located min of 25'-0" from cooling towers & all exhaust &
2.1-7.2.4.3	Privacy curtains in patient care areas are washable		vent discharges air intakes located away from public access
2.1-8.2	HEATING VENTILATION & AIR-CONDITIONING (HVAC) SYSTEMS		all intakes are designed to prevent entrainment of wind-
Part 3/6.1 Part 3/6.1.1	UTILITIES: Ventilation Upon Loss of Electrical Power: space ventilation & pressure		driven rain contain features for draining away precipitation equipped with birdscreen of
	relationship requirements of Table 7-1 are maintained for All Rooms PE Rooms Operating Rooms in event of loss of normal electrical power	Part 3/6.3.1.4	mesh no smaller than 0.5 in intake in areaway □ check if <u>not</u> included in project bottom of areaway air intake opening is at least
Part 3/6.1.2 Part 3/6.1.2.1	Heating & Cooling Sources: heat sources & essential accessories provided in number & arrangement sufficient to accommodate facility needs		6'-0" above grade bottom of air intake opening from areaway into building is at least 3'-0" above bottom of areaway
	(reserve capacity) even when any one of heat sources or essential accessories is not operating due to breakdown or routine maintenance capacity of remaining source or sources is sufficient to provide heating for operating rooms &	Part 3/6.3.2 Part 3/6.3.2.1	Exhaust Discharges: ductwork within building is under negative pressure for exhaust of contaminated air (i.e air from All rooms) exhaust discharge outlets with contaminated air located such that they reduce potential for
Part 3/6.1.2.2	recovery rooms Central cooling systems greater	Part 3/6.3.2.2	that they reduce potential for recirculation of exhausted air back into building exhaust discharge outlets with
	than 400 tons (1407 kW) peak cooling load □ check if <u>not</u> included in project number & arrangement of cooling sources & essential accessories is sufficient to support owner's facility operation plan upon breakdown or routine maintenance of any one of cooling sources.		 contaminated air additionally is arranged to discharge to atmosphere in vertical direction at least 10'-0" above adjoining roof level exhaust discharge outlets from All rooms is located not less than 25'-0" horizontally from outdoor air intakes openable windows/doors & areas that are normally accessible to public

Part 3/6.4	FILTRATION:	Part 3/6.8	ENERGY RECOVERY SYSTEMS:
a.	Particulate matter filters, minimum	1 art 5/0.0	\Box check if <u>not</u> included in project
	MERV-8 provided upstream of first	Part 3/6.8.1	Located upstream of filters required
	heat exchanger surface of any air-		by Part 3/6.8.4
	conditioning system that combines return air from multiple rooms or	Part 3/6.8.2	All room exhaust systems or combination All/PE rooms are not
	introduces outdoor air.		used for energy recovery
b.	Outdoor air filtered in accordance		used for energy receivery
	with Table 7-1	Part 3/7	SPACE VENTILATION-HOSPITAL SPACES:
С.	Air supplied from equipment serving	Part 3/7.1.a	Spaces ventilated according to Table 7-1
	multiple or different spaces is filtered in accordance with Table 7-1	Part 3/7.1.a.1	Air movement is from clean to less- clean areas
d.	Air recirculated within room is filtered	Fall 5/7.1.a.1	
	in accordance with Table 7-1, or	Part 3/7.1.a.3	Min number of total air changes
	Section 7.1(a)(5)		required for positive pressure rooms
e.	Design includes all necessary provisions to prevent moisture		is provided by total supply airflow
	accumulating on filters located		Min number of total air changes required for negative pressure rooms
	downstream of cooling coils &		is provided by total exhaust airflow
	humidifiers	Part 3/7.1.a.4	Entire min. outdoor air changes per
h.	For spaces that do not permit air		hour required by Table 7-1 for each
	recirculated by means of room units & have minimum filter efficiency of		space meet filtration requirements of
	MERV-14, MERV-16 or HEPA in	Part 3/7.1a.5	Section 6.4 Air recirculation through room unit
	accordance with Table 7-1, the min.		□ check if <u>not</u> included in project
	filter requirement listed in Table 7-1,		complies with Table 7-1
	is installed downstream of all wet-air		room unit receive filtered &
	cooling coils & supply fan		conditioned outdoor air
Part 3/6.5	HEATING & COOLING SYSTEMS:		serve only single space provides min MERV 8 filter
Part 3/6.5.3	Radiant heating systems		located upstream of any cold
	check if <u>not</u> included in project		surface so that all of air passing
	ceiling or wall panels with		over cold surface is filtered
	exposed cleanable surfaces or radiant floor heating are provided		
	in All room, PE room, operating	Part 3/7.2	ADDITIONAL ROOM-SPECIFIC REQUIREMENTS:
	room or procedure room	Part 3/7.2.1	Airborne Infection Isolation (AII) Rooms
			□ check if <u>not</u> included in project
Part 3/6.7 Part 3/6.7.1	AIR DISTRIBUTION SYSTEMS:		All rooms have permanently installed
Part 5/0.7.1	Maintain pressure relationships required in tables 7.1 in all modes of		device and/or mechanism to
	HVAC system operation		constantly monitor differential air pressure between room & corridor
	Spaces that have required pressure		Local visual means is provided to
	relationships are served by fully		indicate whenever negative differential
	ducted return systems or fully ducted exhaust systems		pressure is not maintained
	Inpatient facilities & recovery rooms		Air from All room is exhausted
	are served by fully ducted return or		directly to outdoors Exhaust air from All rooms, associated
	exhaust systems		anterooms & toilet rooms:
$D_{out} 2/6 = 7.2$	Air Dietributien Devieee		is discharged directly to outdoors
Part 3/6.7.2	Air Distribution Devices: supply air outlets comply		without mixing with exhaust air from
	with Table 6-2		any other non-All room or exhaust system
			or
Part 3/6.7.3	Smoke Barriers:		is discharged into the general
	HVAC zones coordinated with compartmentation to minimize		exhaust stream, provided the All
	ductwork penetrations of fire &		room exhaust air first passes through
	smoke barriers.		a HEPA filter (all exhaust ductwork kept under negative pressure)

Part 3/7.4.1

U U
Exhaust air grille or register in patient room is located directly above patient bed on ceiling or on wall near head of bed
 Anteroom □ check if <u>not</u> included in project All room is at negative pressure with respect to anteroom Anteroom is at negative pressure with respect to corridor
Operating Rooms □ check if <u>not</u> included in project Each OR has individual temperature control OR is provided with primary supply diffuser array designed as follows: airflow is unidirectional downwards & average velocity of diffusers is 25 to 35 CFM/ft ² diffusers are concentrated to provide airflow pattern over patient & surgical team coverage area of primary supply diffuser array extends min 12"
patient & surgical team

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

Part 3/7.4.3 Imaging Procedure Rooms

- □ check if not included in project Anesthetic gases are administered ventilation requirements for operating rooms are met or
- No anesthetic gases are administered
- 2.1 8.3**ELECTRICAL SYSTEMS**
- 2.1-8.3.2 **ELECTRICAL DISTRIBUTION &** TRANSMISSION

Panelboards:

2.1-8.3.2.2 panelboards serving life safety (1) branch circuits serve floors on which they are located & floors immediately above & below

(2)	panelboard critical branch
	circuits serve floors on which
	they are located
(3)	panelboards not located in exit
	enclosures or exit passageways

- 2.1-8.3.2.3 Ground-Fault Circuit Interrupters in Operating rooms:
- □ check if not included in project Where GFCIs are used in operating (2)(a) room, each single or duplex receptacle is stand-alone GFCI receptacle
- Where GFCI breakers are used, no (2)(b)more than one single or duplex receptacle is connected to individual GFCI breaker
- **POWER-GENERATING & -STORING** 2.1-8.3.3 EQUIPMENT
- Essential electrical system or 2.1-8.3.3.1 emergency electrical power essential electrical system (1) complies with NFPA 99
- emergency electrical power (2) complies with NFPA 99

2.1-8.3.4 LIGHTING

- Luminaires in patient areas have 2.1-8.3.4.1(1) smooth, cleanable, impact-resistant lenses concealing light source Luminaires designed to dissipate 2.1-8.3.4.1(2) heat such that touchable surfaces will not burn occupants or ignite materials.
- (4)Operating rooms: general lighting in addition to (a) special lighting units provided at surgical & obstetrical tables (b) general lighting & special lighting are on separate circuits (7)Uplight fixtures installed in patient care areas are covered

ELECTRICAL EQUIPMENT 2.1-8.3.5

2.1-8.3.5.1 Handwashing sinks & scrub sinks that depends on building electrical service for operation are connected to essential electrical system Electronic health record system 2.1-8.3.5.2 servers & centralized storage provided with uninterruptible power supply

clean workroom of two-

room sterile processing

Class 2 & 3 imaging rooms electronic mainframe rooms (EFs & TERs) main switchgear

electronic data processing

facilities pharmacies

Handwashing Station Sinks:

bottom of basin

anchored so that allowable stresses are not exceeded where vertical or horizontal force of 250 lbs is applied

electrical rooms

electric closets

accessible

drip pan for drainage piping above ceiling of sensitive area □ check if not included in project

____ overflow drain with outlet located in normally occupied area that is not open to restricted area

> no floor drains in procedure rooms

Materials used for plumbing fixtures are non-absorptive & acid-resistant

> designed with basins & faucets that reduce risk of splashing to areas where direct patient care is provided, sterile procedures are performed, medications are prepared or food is prepared sink basins have nominal size of no less than 144 square inches sink basins have min dimension 9 inches in width or length sink basins are made of porcelain stainless steel or solid-surface materials water discharge point of faucets is at least 10" above

operating rooms Class 2 & Class 3 imaging rooms floor drain in dedicated cystoscopy procedure room \Box check if not included in

> recessed floor sink w/ automatic trap primer

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		 clean work room steril facilities pharmacie Class 2 & 3 electronic rooms (EF main switc
2.1-8.3.6.3	Essential Electrical System Receptacles:		 electrical re electronic
(1)	cover plates for electrical receptacles supplied from	(1)(b)	areas • electric clo
	essential electrical system are distinctively colored or marked for identification	(1)(b)	drip pan for dr above ceiling o □ check if not i
(2)	same color is used throughout facility		accessibl overflow o
2.1-8.4	PLUMBING SYSTEMS		located in occupied
2.1-8.4.2	Plumbing & Other Piping Systems:		open to re
2.1-8.4.2.1(3)	no plumbing piping exposed overhead or on walls where	(2)	Floor Drains:
	possible accumulation of dust or	(a)	no floor d procedure
	soil may create cleaning problem		operating
2.1-8.4.2.5	Heated Potable Water Distribution		& Class 3
	Systems:	(b)	floor drain
(2)	heated potable water		cystoscop □ check
	distribution systems serving patient care areas are under		project
	constant recirculation		rece
	non-recirculated fixture branch		auto
	piping is not more than 25'-0" long	2.1-8.4.3	PLUMBING FIXTURES
(3)(a)	no installation of dead-end piping (except for empty risers	2.1-8.4.3.1(1)	Materials used for p
(3)(c)	mains & branches for future use)		are non-absorptive
(3)(b)	any existing dead-end piping is		
	removed	2.1-8.4.3.2	Handwashing Statio
	□ check if <u>not</u> included in project	(1)	designed with that reduce ris
(4)(a)	water-heating system supplies water at temperatures &		areas where d
	amounts indicated in Table 2.1-4		is provided, ste
219426			are performed,
2.1-8.4.2.6 (1)(a)	Drainage Systems: drainage piping installed above	(2)	prepared or foo sink basins hav
(1)(4)	ceiling of or exposed in rooms	(2)	no less than 14
	listed below piping have special		sink basins hav
	provisions (e.g double wall		9 inches in wid
	containment piping or oversized	(3)	sink basins are
	drip pans) to protect space below from leakage & condensation		porcelain stain solid-surface r
	 operating rooms 	(5)	water discharg
	 delivery rooms 		faucets is at le
	 procedure rooms 		bottom of basi
	trauma rooms	(7)	anchored so the stresses are n
	nurseries		stresses are n where vertical
	central kitchensone-room sterile		force of 250 lb
	 one-room sterile processing facilities 		

Compliance Checklist: Surgical Services

(8)	sinks used by medical & nursing staff patients & public have fittings that can be operated without using hands	2.1-8.5.1.2(4)	Nurse call system provided in each patient care area as required in Table 2.1-2
(a)	(may be single-lever or wrist blade devices) blade handles	2.1-8.5.1.3	Bath Stations: bath station that can be activated by patient lying on floor provided at each patient toilet
	 check if <u>not</u> included in project at least 4 inches in length provide clearance required for operation 	(1)	alarm in these areas can be turned off only at bath station where it was initiated
(b)	sensor-regulated water fixtures □ check if <u>not</u> included in project meet user need for temperature & length of time water flows	(3)	toilet bath stations located on the side of toilets within 12" of front of toilet bowl & 3'-0" to 4'-0" above floor
	designed to function at all times & during loss of normal power	2.1-8.5.1.5	Emergency call stations are equipped with continuous audible or visual confirmation to person who initiated the code call
2.1-8.4.3.4	Ice-Making Equipment: copper tubing provided for supply connections to ice-making equipment	2.1-8.5.3	EMERGENCY COMMUNICATION SYSTEM Emergency-radio communication
2.1-8.4.3.5 (1)	Clinical Flushing-Rim Sinks: trimmed with valves that can are operated without hands	2.1-8.5.3.1	system provided in each facility operates independently of building's service & emergency power systems during
(a)	(may be single-lever or wrist blade devices)	2.1-8.5.3.2	emergencies frequency capabilities to communicate with state emergency
(b) (2)	 handles are at least 6 in long integral trap wherein upper portion of water trap provides 	04.000	communication networks
2.1-8.4.3.6	visible seal Scrub Sinks:	2.1-8.6.2	ELECTRONIC SURVEILLANCE SYSTEMS
(1)	freestanding scrub sinks are trimmed with foot knee or electronic sensor controls	2.1-8.6.2.1	 check if <u>not</u> included in project Display screens in patient areas are mounted in tamper-resistant
(2)	no single-lever wrist blades except for temperature pre-set valve	2.1-8.6.2.2	enclosure that is unobtrusive Display screens are located so they are not readily observable by general public or patients
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	Electronic surveillance systems receive power from essential electrical system
2.1-8.5.1 2.1-8.5.1.1(1)	CALL SYSTEMS Nurse call stations provided as required in Table 2.1-2		
2.1-8.5.1.1(2)	Nurse call systems report to attended location with electronically supervised visual & audible annunciation as indicated in Table 2.1-2		
2.1-8.5.1.1(4)	Call system complies with UL 1069 "Standard for Hospital Signaling & Nurse Call Equipment"		
2.1-8.5.1.1(5)	 Wireless nurse call system □ check if <u>not</u> included in project complies with UL 1069 		
MDPH/DHCF			12/24 IP15