COMPLIANCE CHECKLIST

IP5 Critical Care Unit

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

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

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

Instructions:

- 1. All requirement lines must be completed according to the following instructions and included in the plan submissions for Self-Certification Process or Abbreviated Review Process.
- This checklist must be completed by the project architect or engineer based on the design actually reflected in the plans at the 2. time of completion of the checklist.
- Each requirement line (____) of this Checklist must be completed exclusively with one of the following marks, unless otherwise 3. directed in the checklist. If a functional space is not affected by a renovation project, the mark "E" may be indicated on the requirement line (____) before the name of the functional space (associated requirements on indented lines below that name, or associated MEP requirements do not have to be completed in this case). If more than one functional space serves a given required function (e.g. patient room or exam room), that clarification should be provided in the Project Narrative, and the requirement lines are understood to only address the functional spaces that are involved in the project.
- **X** = Requirement is met, for new space, for renovated space, or for existing direct support space for an expanded service.
- **E** = Requirement relative to an existing suite or area that has been licensed for its designated function, is not affected by the construction project and does not pertain to a required direct support space for the specific service affected by the project. "E" must not be used for an existing required support space associated with a new patient care room or area.
- \mathbf{X} = 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.

Revision Date:

- 4. All room functions marked with "X" must be shown on the plans with the same name labels as in this checklist.
- Mechanical, electrical & plumbing requirements are only partially mentioned in this checklist. The relevant section of the FGI 5. Guidelines must be used for project compliance with all MEP requirements and for waiver references.
- Oxygen, vacuum, medical air, waste anesthesia gas disposal and instrument air outlets (if required) are identified respectively 6. by the abbreviations "OX", "VAC", "MA", "WAGD" & "IA".
- Requirements referenced with "FI" result from formal interpretations from the FGI Interpretations Task Group. 7.
- 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:	Patient Care Unit Bed Complements:	
	Current = Proposed =	
Satellite Name: (if applicable)	Building/Floor Location:	
Satellite Address: (if applicable)	_	
	Submission Dates:	
Project Description:	Initial Date:	

	Architectural Requirements	Building Systems Requirements	
2.2-2.6	CRITICAL CARE UNIT		
2.1-1.2.3	Shared Services: No combined functions unless specifically allowed in this checklist		
2.2-2.6.1.2 (1)	Location: critical care unit located in same building as services and/or departments required to provide care to critical care patients (e.g. emergency, respiratory therapy, laboratory, radiology, surgery)		
(2)	unit be located so that medical emergency resuscitation teams can respond promptly to emergency calls with minimum travel time		
(3)	location does not permit unrelated traffic of staff, public or other patients through unit (except for emergency egress)		
2.2-2.6.2	CRITICAL CARE PATIENT CARE AREAS		
2.2-2.6.2.2 (1)	Space Requirements: each patient care station is single-patient	Ventilation: Min. 6 air changes per hour	Table 7.1
(2)	room each patient room has min. clear floor area 200 sf min. headwall width 13'-0"	Lighting: General lighting Lighting for bed permits staff observation of patient	2.1-8.3.4.3(1) (c)
(3)(a)	min. clearance 1'-0" from head of bed to wall	minimizes glare	
(3)(b)	min. clearance 5'-0" from foot of bed to wall	Power: Min. 16 receptacles in total	Table 2.1-1
(3)(c) (3)(d)	<pre> min. clearance 5'-0" on transfer side min. clearance 4'-0" on non-transfer side</pre>	convenient to head of bed with one on each wall	
(5)	patient room sized to allow for minimum of two seated visitors without interfering with providers' access to patient & equipment	Nurse Call System: Patient station Staff assistance station Emergency call station Medical Gases:	Table 2.1-2
2.2-2.6.2.3 2.1-7.2.2.5(1) 2.1-7.2.2.5(3)	Windows In Patient Rooms: each patient room provided with natural light by means of window to outside	1 OX, 3 VAC, 1 MA per bed	Table 2.1-3
(a)	minimum net glazed area be no less than 8% of required min. clear floor area of room served		
(b)	maximum 36 inches windowsill height above finished floor		

Architectural Requirements Building Systems Requirements 2.2-2.6.2.4 Patient Privacy: ____ view panels to corridor with means to (1) allow visual privacy (2) existing multiple patient care stations in renovation projects □ check if not included in project each patient care station has provisions for visual privacy from casual observation by other patients & visitors 2.2-2.6.2.5 Handwashing Stations: (1) handwashing station provided in each patient room (2) existing multiple patient care stations in renovation projects □ check if not included in project (a) at least one handwashing station provided for every 3 patient care stations (b) handwashing station located near patient care station 2.2-2.6.2.6 Toilet Room or Human Waste Disposal Room: Ventilation: Min. 10 air changes per hour Table 7.1 (1) enclosed toilet room Exhaust (a) ____ toilet with bedpan-rinsing device Negative pressure direct access from patient room No recirculating room units or enclosed human waste disposal room (b) flushing-rim clinical sink with bedpan-rinsing device direct access from patient room 2.2-2.6.4 SPECIAL PATIENT CARE AREAS 2.2-2.6.4.2 Airborne infection isolation (AII) room ____ at least one AII room provided in one (1) critical care unit 2.1-2.4.2.2 ____ complies with requirements applicable to patient rooms (1) capacity one bed (2) ____ personal protective equipment (PPE) storage at entrance to room (3) handwashing station (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

Building Systems Requirements

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 No recirculating room units room (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) (a) window treatments do not include fabric drapes & curtains 2.1-7.2.3.1(7)(a) floors are monolithic & integral coved wall bases are at least 6" high & tightly sealed to wall 2.1-2.4.2.5 room pressure visual or audible alarm 2.2-2.2.4.4 Protective environment (PE) room □ check if <u>not</u> included in project 2.1-2.4.2.2 Ventilation: complies with requirements applicable Min. 12 air changes per hour Table 7.1 to patient rooms (1) Positive pressure capacity one bed No recirculating room units (2) personal protective equipment (PPE) storage at entrance to room (3) Supply air diffusers are Part 3/7.2.2 handwashing station located above patient bed Exhaust grilles or registers located near patient room

door

Architectural Requirements

Architectural Requirements Building Systems Requirements (4) Ventilation: Patient toilet room Min. 10 air changes per hour Table 7.1 serves only one PE room 2.1-2.2.6.3 Exhaust Negative pressure (1) toilet No recirculating room units (2) handwashing station (3) bedpan washer 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 personal protective equipment Table 7.1 No recirculating room units (PPE) before entering patient room (2)all doors to anteroom have self-closing devices or audible alarm activated when PE 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 PE room is in use as isolation room edge seals provided along sides & top of doorframe for any door into PE room (2) (a) window treatments do not include fabric drapes & curtains 2.1-7.2.3.1(7)(a) floors are monolithic & integral coved wall bases are at least 6" high & tightly sealed to wall 2.1-2.4.2.5 room pressure visual or audible alarm $2.2 - 2.2 \cdot 4.4(5)$ **Special Design Elements:** (a) monolithic ceiling surfaces are cleanable (b) lighting fixtures have lenses & are sealed 2.1-7.2.3.1 floors are monolithic & integral (7)(a) coved wall bases are at least 6" high & tightly sealed to wall

	Architectural Requirements	Building Systems Requirements	
2.2-2.6.8	SUPPORT AREAS FOR CRITICAL CARE UNIT		
2.2-2.6.8.2(1) 2.1-2.8.2.1(1) 2.1-2.8.2.1(2)	 Administrative center or nurse station space for counters handwashing station next to or directly accessible* or hand sanitation dispenser next to or directly accessible* 		
(2)	 direct or remote visual observation between nurse station or staffed charting stations & all patient care stations in critical care unit observation provides view of patient while patient is in bed 		
2.2-2.6.8.3 (1)	Documentation areas provided for each patient in or adjacent* to patient care station	Nurse Call System: Duty station (light/sound	2.1-8.5.1.2(3)(b)
(2)	Information review area located to facilitate concentration	signal)	
2.2-2.6.8.4 (1)	Nurse or supervisor office office space for critical care medical & nursing management/administrative personnel immediately accessible* to critical care		
(2)	unit offices linked with unit by telephone or intercommunications system		
2.2-2.6.8.5	Multipurpose room at least one multipurpose room for each facility for patient conferences, reports, education, training sessions & consultation (may serve several patient care units & departments)		
2.2-2.6.8.8 2.1-2.8.8.1(2) (a)	Medication safety zones Design Promoting Safe Medication Use: medication safety zones located out of circulation paths		
(b)	work space designed so that staff can access information & perform required tasks	Lighting: Task-specific lighting level min. 100 foot-candles	2.1-2.8.8.1(2)(d)
(c)	work counters provide space to		
(e)	perform required tasks sharps containers placed at height that allows users to see top of container		
(f)	max. 45 dBA noise level caused by building systems		

	Architectural Requirements	Building Systems Requirements	
2.1-2.8.8.2(1)	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	Nurse Call System:	
	check if <u>not</u> included in project	Duty station (light/sound signal)	Table 2.1-2
(c)	self-contained		
	medication-dispensing unit		
	□ check if <u>not</u> included in project		
	room designed with space to prepare medications		
	or		
2.1-2.8.8.2(2)	automated medication-dispensing unit	Lighting	
(a)	located at nurse station, in clean workroom or in alcove	Lighting: Task lighting	2.1-2.8.8.1(2)(d)
(c)	handwashing station located next	Nurse Call System: Duty station (light/sound	Table 2.1-2
	to stationary medication- dispensing units or stations	signal)	
2.2-2.6.8.9	Nourishment area or room		
(2)	located within critical care unit		
	or		
	shared with another critical care unit		
	accessible from critical care unit without travel through public		
	corridor		
2.1-2.8.9.2		Ventilation:	T
(1)	handwashing station	Min. 2 air changes per hour	Table 7.1
(2)	work counter		
(3)	refrigerator		
(4) (5)	microwave		
(6)	storage cabinets	Nurse Call System:	
(0)	space for temporary storage of food service implements	Duty station (light/sound signal)	2.1-8.5.1.2(3)(b)
2.1-2.8.9.3	provisions & space are included for	C <i>i</i>	
	separate temporary storage of unused & soiled meal trays		
2.2-2.6.8.10	Ice-making equipment		
(1)	provides ice for treatment &		
	nourishment		

	Architectural Requirements	Building Systems Requirements	
2.2-2.6.8.11 (2)	Clean workroom or clean supply room located within critical care unit or		
	shared with another critical care unit accessible from critical care unit without travel through public corridor		
2.1-2.8.11.2	clean workroom used for preparing patient care	Ventilation: Min. 4 air changes per hour Table 7	7.1
(1) (2)	items work counter handwashing station	Positive pressure	
(3)	storage facilities for clean & sterile supplies or	Nurse Call System: Duty station (light/sound Table 2 signal)	2.1-2
2.1-2.8.11.3	clean supply room used only for storage & holding as part of system for distribution of clean & sterile supplies	Ventilation: Min. 4 air changes per hour Table 7 Positive pressure	7.1
2.2-2.6.8.12 (2)	Soiled workroom or soiled holding room located within critical care unit or shared with another critical care unit accessible from critical care unit without travel through public corridor		
2.1-2.8.12.2	soiled workroom	Ventilation: Min. 10 air changes per hour Table 7	7.1
(1)(a) (1)(b) (1)(c)	 handwashing station flushing-rim clinical service sink with bedpan-rinsing device or equivalent flushing-rim fixture 	Exhaust Negative pressure No recirculating room units	
(1)(d)	work counter space for separate covered containers for waste & soiled linen	Nurse Call System: Duty station (light/sound Table 2 signal)	2.1-2
(2)	fluid management system is used		
(a)	electrical & plumbing connections that meet manufacturer requirements		
(b)	space for docking station or		
2.1-2.8.12.3	soiled holding room	Ventilation: Min. 10 air changes per hour Table 7 Exhaust	7.1
(1) (2)	handwashing station or hand sanitation station	Exhaust Negative pressure No recirculating room units	
(4)	space for separate covered containers for waste & soiled linen		

Building Systems Requirements

7.1	enneeta a nequi entente	Eananig Cyclonic Requiremente
2.2-2.6.8.13(1)	Clean linen storage	
(b)	located within critical care unit	
()	or	
	-	
	shared with another critical care unit	
	accessible from critical care unit	
	without travel through public	
	corridor	
2.1-2.8.13.1		
(1)	stored in clean workroom	
	or	
	separate closet	
	or	
	covered cart distribution system on	
(0)	each floor	
(2)	storage of clean linen carts in	
	designated corridor alcoves,	
	clean workroom or closets	
2.2-2.6.8.13(2)	Equipment storage room or alcoves	
(a)	sized to provide min. 20 sf per patient	
	care station	
(b)	equipment storage room contains	
	space & provisions for recharging	
	equipment	
	equipment	
(3)	M/haalahair 8 gurnay ataraga	
(3)	_ Wheelchair & gurney storage	
(4)	-	
(4)	Emergency equipment storage	
2.1-2.8.13.4		
(1)	each patient care unit has at least one	
	emergency equipment storage location	
(2)	provided under visual observation of staff	
(3)	storage locations in corridors do not	
	encroach on minimum required	
	corridor width	
2.2-2.6.8.14	Environmental services room	Ventilation:
		Min. 10 air changes per hour Table 7.1
2.1-2.8.14.1	<pre> readily accessible* to unit or floor it</pre>	Exhaust
	serves (permitted to serve more than	Negative pressure
	u u	No recirculating room units
2.1-2.8.14.2	one patient care unit on floor)	
	and the state of the second state of the secon	
(1)	service sink or floor-mounted mop sink	
(2)	provisions for storage of supplies &	
-	housekeeping equipment	
(3)	handwashing station	
	or	
	hand sanitation station	
-		

Architectural Requirements

	Architectural Requirements	Building Systems Requirements	
2.2-2.6.8.15	Examination room		
	\Box check if <u>not</u> included in project		
2.1-2.1.2	Patient Privacy:		
	provisions are made to address patient		
	visual & speech privacy		
2.1-3.2.2.1	Space Requirements:	Ventilation:	
(1)	min. clear floor area 120 sf	Min. 6 air changes per hour	Table 7.1
	min. clear dimension 10'-0"		
(2)(a)	room size permits room	Lighting:	
	arrangement with min. clearance	Portable or fixed exam light	2.1-8.3.4.3(3)
	3'-0" at each side & at foot of exam table		
	room arrangement (layout #1)	Power:	
	shown in the plans	Min. 8 receptacles in total	Table 2.1-1
(2)(b)	exam table, recliner or chair is	Min. 4 receptacles convenient	
	placed at angle closer to one wall	to head of gurney or bed	
	than another or against wall to	Nurse Call System:	
	accommodate type of patient	Staff assistance station	Table 2.1-2
	being served □ check if <u>not</u> included in project	Emergency call station	
	room arrangement (layout #2)		
	shown in the plans		
2.1-3.2.2.2			
(2)	storage for supplies		
(3)	accommodations for written or		
	electronic documentation		
(4)	space for visitor's chair		
(5)	handwashing station		
2.2-2.6.8.16	Patient-monitoring equipment		
(1)	each unit contains equipment for		
	physiological monitoring with visual		
	displays for each patient at bedside & at nurse station or centralized		
	monitoring area		
(2)	monitors located to permit easy viewing		
	monitors do not interfere with access to		
	patient		
2.2-2.6.8.17	Image-viewing capability unit (may serve		
	more than one critical care unit)		
22260	SUPPORT AREAS FOR STAFF		
2.2-2.6.9 2.2-2.6.9.1	SUPPORT AREAS FOR STAFF Staff lounge		
	min.100 sf		
(1)	Init: 100 Si located in or adjacent* to critical care		
(2)	unit (may serve adjacent* critical care		
	units)		
(3)	telephone or intercom & emergency		
	call station connections to critical care		
(A)	unit it serves		
(4)	equipment & space for seating		

	Architectural Requirements	Building Systems Requirements	
2.2-2.6.9.2	Staff toilet rooms (permitted to be unisex) readily accessible* to staff lounge		
2.1-2.9.2.1	<pre> readily accessible* to each patient</pre>	Ventilation: Min. 10 air changes per hour	Table 7.1
2.1-2.9.2.2	toilet & handwashing station	Exhaust Negative pressure No recirculating room units	
2.2-2.6.9.3	Staff storage facilities		
2.1-2.9.3.1	securable closets or cabinet compartments for personal articles of staff located in or near nurse station		
2.2-2.6.9.4	On call staff account dation		
(1)	On-call staff accommodation		
(1) (a)	accommodations for sleeping & rest space for chair		
(b)	space for bed		
(2)	individually secured storage for		
	personal items		
(3)	communication system		
(4)	at least one toilet, shower & handwashing station	Ventilation: Min. 10 air changes per hour Exhaust Negative pressure No recirculating room units	Table 7.1
2.2-2.6.10	SUPPORT AREAS FOR FAMILIES & VISITORS		
2.1-2.10.1	Family & visitor lounge	Communications:	
	each patient care unit provides access to lounge for family & visitors	Public communication services provided in each family & visitor lounge	2.1-2.10.1.6
2.1-2.10.1.1	Size:	ianny a violar loango	
(1)	accommodates at least 3 chairs & 1 wheelchair space		
(2)	accommodates at least 1.5 persons for every adult critical care bed		
2.1-2.10.1.2	immediately accessible* to patient care units served (permitted to serve more than one patient care unit)		
2.1-2.10.1.4	designed to minimize impact of noise & activity on patient rooms & staff functions		

*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		
	CORRIDOR WIDTH:	(4)	Lever hardware or push/pull latch
2.1-7.2.2.1	Aisles, corridors & ramps required for		hardware
NFPA 101, 18.2.3.4	exit access in a hospital not less than 8'-0" in clear & unobstructed width	(5)	Doors for Patient Bathing/Toilet Facilities:
	or Detailed code review incorporated in Project Narrative	(a)	two separate doors or door that swings outward
2.1-7.2.2.2	 Aisles, corridors & ramps in adjunct areas not intended for the housing, treatment, or use of inpatients not less than 44" in clear & unobstructed width or Detailed code review incorporated in Project Narrative CEILING HEIGHT: 		or 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
(1)	Min ceiling height 7'-6"in corridors & in	(b)	bathing area or toilet room opens
(3)	normally unoccupied spaces Min. height 7'-6" above floor of suspended tracks, rails & pipes located in traffic path for patients in		onto public area or corridor check if <u>not</u> included in project visual privacy is maintained
	beds & on stretchers Min. ceiling height 7'-10" in other areas	2.1-7.2.2.5 2.1-7.2.2.5(1)	WINDOWS IN PATIENT ROOMS:
2.1-7.2.2.3 (1)	DOORS & DOOR HARDWARE: Door Type:	2.17.2.2.0(1)	Each patient room provided with natural light by means of window to outside
(a)	doors between corridors, rooms, or spaces subject to occupancy swing type or sliding doors	2.1-7.2.2.5(2)	Operable windows in patient rooms or suites
(b)	sliding doors		\Box check if <u>not</u> included in project
	 check if <u>not</u> included in project manual or automatic sliding doors comply with NFPA 101 detailed code review 		 window operation is limited with either stop limit/restrictor hardware or open guard/screen prevents passage of 4-inch diameter sphere through
	incorporated in Project Narrative	2.1-7.2.2.6	opening insect screens
(2)	no floor tracks Door Opening:	2.1-7.2.2.5(3)	Window Size In Patient Rooms:
(a)	<pre> min. 45.5" clear door width for patient rooms min. 83.5" clear door height for</pre>	(a)	minimum net glazed area be no less than 8% of required min. clear floor area of room served
(b)	patient rooms swinging doors for personnel use in addition to sliding doors	(b)	maximum 36 inches windowsill height above finished floor
(3) (a)	 check if <u>not</u> included in project min. clear width 34.5" Door Swing: doors do not swing into corridors except doors to non-occupiable spaces (e.g. environmental services rooms & electrical closets) & doors with emergency 	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
	breakaway hardware	l	

2.1-7.2.2.8	HANDWASHING STATIONS:
(1)(c)	Handwashing stations in patient
	care areas located so they are
	visible & unobstructed
(3)	
(a)	Handwashing station countertops
	made of porcelain, stainless steel,
	solid-surface materials or impervious
	plastic laminate assembly
(b)	Countertops substrate
	check if <u>not</u> included in project
	marine-grade plywood (or
	equivalent material) with
	impervious seal
(4)	Handwashing station casework
	check if <u>not</u> included in project
	designed to prevent storage
	beneath sink
(5)	Provisions for drying hands
(a)	hand-drying device does not
	require hands to contact
(h)	dispenser band dring douise is analoged to
(b)	hand-drying device is enclosed to protect against dust or soil & to
	ensure single-unit dispensing
(6)	Liquid or foam soap dispensers
(0)	
2.1-7.2.2.9	GRAB BARS:
(1)	Grab bars anchored to sustain
	concentrated load 250 pounds
(2)	Grab bars in toilet rooms used by
	patients of size anchored to sustain
	concentrated load 800 pounds
(3)	Ends of grab bars constructed to
	prevent snagging clothes of patients, staff & visitors
	patients, stan & visitors
2.1-7.2.2.10	HANDRAILS:
(1)	Handrails installed on both sides of
	patient use corridors
(3)	Rail ends return to wall or floor
(4)	Handrail gripping surfaces &
	fasteners are smooth (free of sharp
	or abrasive elements) with 1/8-inch
<i>(</i> _)	min. radius
(5)	Handrails have eased edges & corners
(6)	— Handrail finishes are cleanable

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 patient bed areas 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
2.1-7.2.2.14 (1) (2)	DECORATIVE WATER FEATURES: No indoor unsealed water features Covered fish tanks check if <u>not</u> included in project restricted to public areas
2.1-7.2.3	SURFACES
2.1-7.2.3.1	FLOORING & WALL BASES:
(1)	Flooring surfaces cleanable &
(2)	wear-resistant for location
(3)	Smooth transitions provided
(4)	between different flooring materials
(4)	Flooring surfaces including those on stairways are stable, firm &
	slip-resistant
(5)	Floors & wall bases of soiled 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
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 &
(2)	Wall surfaces in areas routinely subjected to wet spray or splatter (e.g. environmental services rooms) are monolithic or have sealed seams that
(5)	are tight & smooth Wall protection devices & corner guards durable & scrubbable

Compliance Checklist: Critical Care Unit

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
2.1-7.2.4 2.1-7.2.4.1	FURNISHINGS: Built-In Furnishings: Check if <u>not</u> included in project upholstered with impervious materials in patient treatment areas
2.1-7.2.4.2	Window Treatments in Patient Rooms & Other Patient Care Areas:
(1)	 blinds, sheers or other patient-controlled window treatments provided to allow for patient privacy & to control light
(2)	levels & glare window treatments do not compromise patient safety easy for patients, visitors & toff to energine
(3)	staff to operate window treatments selected for ease of cleaning, disinfection or sanitization
2.1-7.2.4.3	 Privacy curtains in patient rooms & other patient care areas are washable check if <u>not</u> included in project
2.1-8.2	HEATING VENTILATION & AIR-CONDITIONING (HVAC) SYSTEMS
Part 3/6.1 Part 3/6.1.1	UTILITIES: Ventilation Upon Loss of Electrical Power: space ventilation & pressure relationship requirements of Tables 7.1 are maintained for AII Rooms, PE Rooms in event of loss of normal electrical power

Part 3/6.1.2 Part 3/6.1.2.1	Heating & Cooling Sources: heat sources & essential accessories are provided in number & arrangement sufficient to accommodate facility needs (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 for domestic hot water & heating for intensive care rooms
Part 3/6.1.2.2	Central cooling systems greater than 400 tons (1407 kW) peak cooling load check if <u>not</u> included in project <u>number & arrangement of cooling</u> sources & essential accessories is sufficient to support facility operation plan upon breakdown or routine maintenance of any one of cooling sources
Part 3/6.2 Part 3/6.2.1	AIR-HANDLING UNIT (AHU) DESIGN: <u>AHU</u> casing is designed to prevent water intrusion, resist corrosion & permit access for inspection & maintenance
Part 3/6.3	OUTDOOR AIR INTAKES & EXHAUST
Part 3/6.3.1 Part 3/6.3.1.1	DISCHARGES: Outdoor Air Intakes: located min. of 25 ft from cooling towers & all exhaust & vent discharges outdoor air intakes located such that bottom of air intake is at least 6'-0" above grade air intakes located away from public access
Part 3/6.3.1.3	intakes on top of buildings ☐ check if <u>not</u> included in project <u>located</u> with bottom of air intake min. 3'-0" above roof level

Compliance Checklist: Critical Care Unit

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Part 3/6.3.1.4	 intake in areaway □ check if <u>not</u> included in project bottom of areaway air 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 3/6.5 Part 3/6.5.3	HEATING & COOLING SYSTEMS: Radiant heating systems Check if <u>not</u> included in projec ceiling or wall panels with exposed cleanable surfaces radiant floor heating are prov in AII room, PE room & burn unit
Part 3/6.3.2	Exhaust Discharges for Infectious Exhaust Air:	Part 3/6.7 Part 3/6.7.1	AIR DISTRIBUTION SYSTEMS: pressure relationships required in tables 7.1 maintained in all m
Part 3/6.3.2.1	 check if <u>not</u> included in project ductwork within building is under negative pressure for exhaust of contaminated air (i.e. air from AII rooms) exhaust discharge outlets with contaminated air located such 		of HVAC system operation Spaces that have required press relationships are served by fully ducted return systems or fully ducted exhaust systems Inpatient facilities are served by ducted return or exhaust system
Part 3/6.3.2.2	that they reduce potential for recirculation of exhausted air back into building exhaust discharge outlets with	Part 3/6.7.2	Air Distribution Devices: supply air outlets comply with Table 6.7.2
	contaminated air is arranged to discharge to atmosphere in vertical direction at least 10'-0" above adjoining roof level exhaust discharge outlets from AII rooms is located not less	Part 3/6.7.3	Smoke Barriers: <u>HVAC</u> zones coordinated v compartmentation to minim ductwork penetrations of fir smoke barriers.
	than 25 feet horizontally from outdoor air intakes, openable windows/doors & areas that are normally accessible to public	Part 3/6.8 Part 3/6.8.1	ENERGY RECOVERY SYSTEMS: Check if <u>not</u> included in project Located upstream of Filter Bank I
Part 3/6.4	FILTRATION: Two filter banks for inpatient care (see Table 6.4)	Part 3/6.8.2	AII room exhaust systems or combination AII/PE rooms are r used for energy recovery
Part 3/6.4.1	 Filter Bank No. 1: MERV 7 Filter Bank No. 2: MERV 14 Each filter bank with efficiency of greater than MERV 12 is provided with differential pressure measuring device to indicate when filter needs to be changed Filter Bank No. 1 is placed upstream 	Part 3/6.8.3	 Energy recovery systems with leakage potential check if <u>not</u> included in project arranged to minimize potentian to transfer exhaust air direction back into supply airstream designed to have no more tion 5% of total supply airstream
Part 3/6.4.2	of heating & cooling coils Filter Bank No. 2 is placed	Part 3/7	consisting of exhaust air SPACE VENTILATION
	downstream of all wet-air cooling coils & supply fan	Part 3/7.1.a	Spaces ventilated according to Table 7.1
		Part 3/7.1.a.1	Air movement is from clean to le

g or wall panels with sed cleanable surfaces or nt floor heating are provided room, PE room & burn TION SYSTEMS: elationships required .1 maintained in all modes system operation at have required pressure ps are served by fully urn systems or fully haust systems acilities are served by fully urn or exhaust systems ution Devices: y air outlets comply Table 6.7.2 rriers: C zones coordinated with artmentation to minimize vork penetrations of fire & e barriers. OVERY SYSTEMS: included in project ostream of Filter Bank No. 2 exhaust systems or on AII/PE rooms are not nergy recovery covery systems with otential f not included in project ged to minimize potential nsfer exhaust air directly into supply airstream ned to have no more than f total supply airstream sting of exhaust air LATION ntilated according 1 nent is from clean to less-

clean areas

Part 3/7.1.a.3	 Min. number of total air changes required for positive pressure rooms is provided by total supply airflow Min. number of total air changes required for negative pressure rooms is provided by total exhaust airflow 		 PE rooms have permanently installed device to constantly monitor differential air pressure between room & corridor local Visual means is provided to indicate whenever positive differential pressure is not maintained
Part 3/7.1a.5	 Air recirculation through room unit check if <u>not</u> included in project complies with Table 7.1 room unit receive filtered & conditioned outdoor air serve only a single space provides min. MERV 6 filter located upstream of any cold surface so that all of air passing over cold surface is filtered 	Part 3/7.2.3	Combination Airborne Infectious Isolation/ Protective Environment Room (AII/PE) Check if <u>not</u> included in project Supply air diffusers are located above patient bed Exhaust grilles or registers are located near patient room door. Anteroom Check if <u>not</u> included in project anteroom is at positive pressure
Part 3/7.2	ADDITIONAL ROOM-SPECIFIC REQUIREMENTS:		with respect to both AII/PE room
Part 3/7.2.1 Part 3/7.2.1	 Airborne Infection Isolation (AII) Rooms ☐ check if <u>not</u> included in project AII rooms have permanently installed device and/or mechanism to constantly monitor differential air pressure between room & corridor Local visual means is provided to indicate whenever negative differential pressure is not maintained Air from AII room is exhausted directly to outdoors Exhaust air from AII rooms, associated anterooms & toilet rooms is discharged directly to outdoors without mixing with exhaust air from any other non-AII room or exhaust system Exhaust air grille or register in patient room is located directly above patient bed on ceiling or on 	2.1-8.3 2.1-8.3.2.2 (1)	 & corridor or common space or anteroom is at negative pressure with respect to both AIII/PE room & corridor or common space First device monitors pressure differential between AII/PE room & anteroom Second device monitors pressure differential between anteroom & corridor or common space Local visual means are provided to indicate whenever differential pressures are not maintained ELECTRICAL SYSTEMS Panelboards: panelboards serving life safety branch circuits serve floors on which they are located & floors
	 Anteroom □ check if <u>not</u> included in project AII room is at negative pressure with respect to anteroom Anteroom is at negative 	(2) (3)	immediately above & below panelboard critical branch circuits serve floors on which they are located panelboards not located in exit enclosures or exit passageways
Part 3/7.2.2	pressure with respect to corridor Protective Environment (PE) Rooms	2.1-8.3.2.3	Ground-Fault Circuit Interrupters in Critical Care Areas:
Part 3/7.2.2	 check if <u>not</u> included in project Supply air diffusers are located above patient bed 	(2)	 check if <u>not</u> included in project each receptacle individually protected by single GFCI device
	Exhaust grilles or registers are located near patient room door.	2.1-8.3.3	POWER-GENERATING & -STORING EQUIPMENT
		2.1-8.3.3.1	Essential electrical system or

(1)	emergency electrical power	2.1-8.4	PLUMBING SYSTEMS
(2)	complies with NFPA 99 emergency electrical power complies with NFPA 99	2.1-8.4.2 2.1-8.4.2.1(3)	Plumbing & Other Piping Systems: no plumbing piping exposed overhead or on walls where
2.1-8.3.4 2.1-8.3.4.2	LIGHTING: Luminaires in wet areas have smooth cleanable shatter-resistant lenses & no exposed lamps	2.1-8.4.2.2	possible accumulation of dust or soil may create cleaning problem Hemodialysis/Hemoperfusion Water Distribution:
2.1-8.3.4.3(1) (a)	Reading light for each patient bed incandescent & halogen light check if <u>not</u> included in project placed or shielded to protect patient from injury light source covered by diffuser or lens flexible light arms check if <u>not</u> included in project mechanically controlled to prevent lamp from	(1)(a) (2)(b) (1)(b)	 check if <u>not</u> included in project separate treated water distribution system outlet at each individual hemodialysis treatment bay outlet at hemodialysis equipment repair area outlet at dialysate preparation area or dialysis equipment includes sufficient water treatment
2.1-8.3.4.3(2)	contacting bed linen Patient care unit corridors have general illumination with provisions for reducing light levels at night	(1)(a) (4)	provisions for use of domestic cold water drainage system independent from tap water drainage liquid waste & disposal system
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 — check if <u>not</u> included in project	(5)	for hemodialysis treatment area are designed to minimize odor & prevent backflow hemodialysis distribution piping is readily accessible* for inspection & maintenance
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	2.1-8.4.2.5 (2)	Heated Potable Water Distribution Systems: heated potable water distribution systems serving patient care areas are under constant recirculation non-recirculated fixture branch
(2)	receptacles in pediatric & psychiatric unit corridors are of tamper-resistant type	(3)(a) (3)(c)	piping max. length 25'-0" no installation of dead-end piping (except for empty risers mains & branches for future use)
2.1-8.3.6.3	Essential Electrical System Receptacles:	(3)(b)	any existing dead-end piping is removed □ check if <u>not</u> included in project
(1) (2)	 cover plates for electrical receptacles supplied from essential electrical system are distinctively colored or marked for identification same color is used throughout facility 	(4)(a)	water-heating system supplies water at temperatures & amounts indicated in Table 2.1-4
	facility		

2.1-8.4.2.6	Drainage Systems:
(1)(a)	drainage piping installed above ceiling of or exposed in
	electronic data processing
	areas & electric closets
	check if <u>not</u> included in project
	special provisions to protect
	space below from leakage &
	condensation
(1)(b)	drip pan for drainage piping
	above ceiling of sensitive area
	□ check if <u>not</u> included in project
	accessible
	overflow drain with outlet
	located in normally
	occupied area
2.1-8.4.3	PLUMBING FIXTURES:
2.1-8.4.3.1(1)	Materials used for plumbing fixtures
()	are non-absorptive & acid-resistant
2.1-8.4.3.2	Handwashing Station Sinks:
(1)	designed with basins that will
	reduce risk of splashing to
	areas for direct patient care &
$\langle \mathbf{O} \rangle$	medication preparation
(2)	sink basins have nominal size of
	no less than 144 square inches sink basins have min. dimension
	9 inches in width or length
(3)	sink basins are made of
(0)	porcelain, stainless steel or
	solid-surface materials
(5)	faucet water discharge point
	min. 10" above bottom of basin
(7)	anchored so that allowable
	stresses are not exceeded
	where vertical or horizontal
(8)	force of 250 lbs. is applied
(0)	sinks used by staff, patients, &
	public have fittings that can be operated without using hands
	(may be single-lever or wrist
	blade devices)
(a)	blade handles
()	\Box check if <u>not</u> included in project
	at least 4 inches in length
	provide clearance required for operation
(b)	sensor-regulated water fixtures
(8)	sensor-regulated water includes
	meet user need for
	temperature & length of time water flows
	designed to function at all
	times and during loss of
	normal power

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2.1-8.4.3.4	Ice-Making Equipment: copper tubing provided for supply connections to
2.1-8.4.3.5	ice-making equipment Clinical Flushing-Rim Sinks: check if <u>not</u> included in project
(1)	trimmed with valves that can
(a)	are operated without hands (may be single-lever or wrist blade devices)
(b) (2)	handles are at least 6 in. long integral trap wherein upper portion of water trap provides
2.1-8.4.3.7 (1)	visible seal Bedpan-Rinsing Devices: bedpan-rinsing devices provided in each inpatient toilet room
(2)	use cold water only
2.1-8.4.4	MEDICAL GAS & VACUUM SYSTEMS Station outlets provided as indicated in Table 2.1-3
2.1-8.5.1 2.1-8.5.1.1	CALL SYSTEMS
(1)	Nurse call stations provided as required in Table 2.1-2
(2)	Nurse call systems report to attended location with electronically supervised visual & audible annunciation as
(4)	indicated in Table 2.1-2 Call system complies with UL 1069 "Standard for Hospital Signaling &
(5)	Nurse Call Equipment" <u>Wireless nurse call system</u> check if <u>not</u> included in project complies with UL 1069
2.1-8.5.1.2 (1)	Patient Call Stations: each patient sleeping bed except nursery beds provided with patient call station equipped for two-way voice communication (use of dual call station are permitted when beds are located adjacent to each other)
(2)(a)	indicator light that remains lighted as long as voice circuit is operating
(2)(b) (3)(a)	reset switch for canceling call visible signal in corridor at patient's door Multi-Corridor Patient Areas: □ check if <u>not</u> included in project additional visible signals at corridor intersections 12/19 IP5

2.1-8.5.1.3	Bath Stations: bath station that can be activated by patient lying on	2.1-8.6.2	ELECTRONIC SURVEILLANCE SYSTEMS
	floor provided at each patient toilet, bathtub, sitz bath or shower stall	2.1-8.6.2.2	monitoring devices are located so they are not readily observable by
(1)	alarm in these areas can only be turned off at bath station where it was initiated	2.1-8.6.2.3	general public or patients electronic surveillance systems receive power from essential
(2)	shower/tub bath stations located 3'-0" to 4'-0" above floor within view of user & within reach of staff without need to step into shower or tub		electrical system
(3)	toilet bath stations located on the side of toilets within 12" of front of toilet bowl & 3'-0" to 4'-0" above floor		
2.1-8.5.1.5	Emergency call stations are equipped with continuous audible or visual confirmation to person who initiated the code call		

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