

COMPLIANCE CHECKLIST**IP21 Renal Dialysis Services (Acute & Chronic)**

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

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

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

Instructions:

1. All requirement lines must be completed according to following instructions & included in plan submissions for Self-Certification Process or Abbreviated Review Process
2. This checklist must be completed by project architect or engineer based on design actually reflected in plans at time of completion of checklist
3. Each requirement line (____) of this Checklist must be completed exclusively with one of following marks unless otherwise directed in checklist. If functional space is not affected by renovation project mark "E" may be indicated on requirement line (____) before name of functional space (associated requirements on indented lines below that name or associated MEP requirements do not have to be completed in this case). If more than one functional space serves given required function (e.g. patient room or exam room) that clarification should be provided in Project Narrative & requirement lines are understood to only address functional spaces that are involved in project

X = Requirement is met for new space for renovated space or for existing direct support space for expanded service

☒ = Check box under section titles or individual requirements lines for optional services or functions that are not included in project area

E = Requirement relative to existing suite or area that has been *licensed* for its designated function is *not affected* by construction project & *does not pertain to required direct support space* for specific service affected by project. "E" must not be used for existing required support space associated with new patient care room or area

W = Waiver requested for specific section of Regulations or FGI Guidelines where hardship in meeting requirement can be demonstrated (a Physical Plant Waiver Form must be completed for each waiver request) explicit floor plan or plan detail must be attached to each waiver request

4. All room functions marked with "X" must be shown on plans with same name labels as in this checklist
5. Mechanical electrical & plumbing requirements are only partially mentioned in this checklist. relevant section of FGI Guidelines must be used for project compliance with all MEP requirements & for waiver references
6. Oxygen vacuum medical air waste anesthesia gas disposal & instrument air outlets (if required) are identified respectively by abbreviations "OX" "VAC" "MA" "WAGD" & "IA"
7. Requirements referenced with "FI" result from formal interpretations from FGI Interpretations Task Group
8. The location requirements including asterisks (*) refer to definitions of Glossary in beginning section of FGI Guidelines & reproduced in this checklist

Facility Name:

DoN Project Number: (if applicable)

Facility Address:

Satellite Name: (if applicable)

Building/Floor Location:

Satellite Address: (if applicable)

Submission Dates:

Project Description:

Initial Date:

Revision Date:

	Architectural Requirements	Building Systems Requirements
2.2-3.10	<u>RENAL DIALYSIS SERVICES (ACUTE & CHRONIC)</u>	
2.2-3.10.1.1	Application: <input type="checkbox"/> Renal dialysis facilities in hospital that treat patients with acute & chronic end stage renal disease (ESRD) including dialysis provided in acute or intensive care unit	
2.2-3.10.1.2		
2.2-3.10.2	HEMODIALYSIS TREATMENT AREA <input type="checkbox"/> check if <u>not</u> included in project (only if dialysis is provided in acute or intensive care unit)	
2.2-3.10.2.1(2)	<input type="checkbox"/> Treatment area separate from administrative waiting areas	
2.2-3.10.2.1(3)	Patient scale <input type="checkbox"/> dedicated space provided for patient scale	
2.2-3.10.2.2	Space Requirements for Individual Hemodialysis Patient Care Stations:	
(1)	<input type="checkbox"/> No built-in cabinetry in individual hemodialysis patient care stations	
	<input type="checkbox"/> patient care stations with dialysis chairs <input type="checkbox"/> check if <u>not</u> included in project	<div style="border: 1px solid black; padding: 5px;"> Ventilation: <input type="checkbox"/> Min 6 air changes per hour Table 7-1 Power: <input type="checkbox"/> Min 8 receptacles Table 2.1-1 <input type="checkbox"/> Min 4 receptacles on each side of bed or lounge chair <input type="checkbox"/> Min 2 receptacles on each side of bed connected to emergency power </div>
(2)(a)	<input type="checkbox"/> min clear floor area of 80 sf	
(2)(b)	<input type="checkbox"/> min clearance 4'-0" between sides of dialysis chairs	
	<input type="checkbox"/> min clearance 3'-0" between sides of dialysis chairs & adjacent* walls or partitions	
	<input type="checkbox"/> min clearance 2'-0" between foot of dialysis chairs & cubicle curtains	
	<input type="checkbox"/> patient care stations with beds <input type="checkbox"/> check if <u>not</u> included in project	<div style="border: 1px solid black; padding: 5px;"> Ventilation: <input type="checkbox"/> Min 6 air changes per hour Table 7-1 Power: <input type="checkbox"/> Min 8 receptacles Table 2.1-1 <input type="checkbox"/> Min 4 receptacles on each side of bed or lounge chair <input type="checkbox"/> Min 2 receptacles on each side of bed connected to emergency power </div>
(2)(a)	<input type="checkbox"/> min clear floor area of 90 sf	
(2)(b)	<input type="checkbox"/> min clearance 4'-0" between sides of beds	
	<input type="checkbox"/> min clearance 3'-0" between sides of beds & adjacent* walls or partitions	
	<input type="checkbox"/> min clearance 2'-0" between foot of beds & cubicle curtains	
2.2-3.10.2.4	<input type="checkbox"/> Hemodialysis treatment area accommodates provisions for patient privacy	
2.2-3.10.2.5(1)	<input type="checkbox"/> Handwashing stations	
2.2-3.10.2.5(2)	<input type="checkbox"/> located at entry to hemodialysis treatment area (may contribute to total number of handw stations required)	
2.1-2.8.7.1	<input type="checkbox"/> located in each room where hands-on patient care is provided	

Architectural Requirements**Building Systems Requirements**

- 2.1-2.8.7.3 ☐ handwashing station serves multiple patient care stations
☐ check if not included in project
- (1) ☐ at least 1 handwashing station for every 4 patient care stations or fewer & for each major fraction thereof
- (2) ☐ handwashing stations evenly distributed

- 2.2-3.10.2.6 Fluid disposal sink
- (1) ☐ at least one dedicated fluid disposal sink is provided in treatment area (for disposal of dialysate & other byproducts of dialysis)
- (2) ☐ non-sensor-operated hands-free faucets or fittings
- (3) ☐ adequate depth to avoid potential splash of biological waste & cross contamination to areas with stored or prepared clean items
- (4) ☐ located to prevent cross contamination of handwashing station

- 2.2-3.10.3 ☐ Home training room
☐ check if not included in project

- 2.2-3.10.3.1 ☐ private treatment room
☐ at least 120 sf

- 2.2-3.10.3.2
- (1) ☐ counter
- (2) ☐ handwashing station
- (3) ☐ separate drain for fluid disposal

- 2.2-3.10.4.1 ☐ Dedicated hemodialysis room for patients with special precaution needs (isolation room to prevent contact transmission of infectious microorganisms)
- (1)(a) ☐ single-patient room
- (1)(b) ☐ dedicated room allows for direct staff observation of patient's face & insertion point during treatment
- (2)(a) ☐ min clear floor area of 120 sf
- (2)(b) ☐ handwashing station
- (2)(c) ☐ dedicated fluid disposal sink
- 2.2-3.10.2.6 (for disposal of dialysate & other by-products of dialysis)
- (1) ☐
- (2) ☐ non-sensor-operated hands-free faucets or fittings
- (3) ☐ adequate depth to avoid potential splash of biological waste & cross contamination to areas with stored or prepared clean items
- (4) ☐ located to prevent cross contamination of handwashing station

Ventilation:

☐ Min 6 air changes per hour Table 7-1

Power:

☐ Min 4 receptacles on each side of bed Table 2.1-1

☐ Min 2 receptacles on each side of bed or lounge chair connected to emergency power

Architectural Requirements**Building Systems Requirements**

(d) ☐ storage for personal protective equipment (PPE)

(3) Architectural details
☐ door & walls are provided
☐ walls extend to floor (but not necessarily to ceiling)
☐ provisions for visual monitoring of patient

2.2-3.10.8 SUPPORT AREAS FOR RENAL DIALYSIS UNIT

2.2-3.10.8.2 ☐ Nurse station
 (1) ☐ located in hemodialysis treatment area
 (2) ☐ designed to provide visual observation of all dialysis patient care stations
 (a) ☐ visual observation includes patient's face & vascular access point

(b) ☐ view from central nurse station
or
☐ view from decentralized nurse stations

2.2-3.10.8.2(1) ☐ space for counters
 2.1-2.8.2.1(1) ☐ handwashing station next to or directly accessible*
 2.1-2.8.2.1(2) ☐

or
☐ hand sanitation dispenser next to or directly accessible*

2.2-3.10.8.8 ☐ Medication safety zone
 2.2-3.10.8.8(2) ☐ dedicated medication safety zone
☐ centrally located in dialysis unit
 2.2-3.10.8.8(3) ☐ at least 6'-0" from any individual patient care station

2.2-3.10.8.8(1) ☐ Design Promoting Safe Medication Use:
 2.1-2.8.8.1(2) ☐

(a) ☐ medication safety zones located out of circulation paths
 (b) ☐ work space designed so that staff can access information & perform required tasks
 (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

Lighting:

☐ Task-specific lighting level min 100 foot-candles 2.1-2.8.8.1(2)(d)

2.1-2.8.8.2(1) ☐ medication preparation room
 (a) ☐ under visual control of nursing staff
 (b) ☐ work counter
☐ handwashing station
☐ lockable refrigerator

Ventilation:

☐ Min 4 air changes per hour Table 7-1

Lighting:

☐ Task lighting 2.1-2.8.8.1(2)(d)

Architectural Requirements**Building Systems Requirements**

	<input type="checkbox"/> locked storage for controlled drugs <input type="checkbox"/> sharps containers <input type="checkbox"/> check if <u>not</u> included in project		
(c)	<input type="checkbox"/> self-contained medication-dispensing unit <input type="checkbox"/> check if <u>not</u> included in project <input type="checkbox"/> room designed with space to prepare medications		
	or		
2.1-2.8.8.2(2)	<input type="checkbox"/> automated medication-dispensing unit		
(a)	<input type="checkbox"/> located at nurse station in clean workroom or in alcove	Lighting:	
(c)	<input type="checkbox"/> handwashing station or hand sanitation dispenser located next to stationary medication-dispensing units or stations	<input type="checkbox"/> Task lighting	2.1-2.8.8.1(2)(d)
2.2-3.10.8.11	<input type="checkbox"/> Clean workroom or clean supply room		
2.1-2.8.11.2	<input type="checkbox"/> clean workroom <input type="checkbox"/> used for preparing patient care items <input type="checkbox"/> work counter <input type="checkbox"/> handwashing station <input type="checkbox"/> storage facilities for clean & sterile supplies	Ventilation:	
(1)		<input type="checkbox"/> Min. 4 air changes per hour	Table 7-1
(2)		<input type="checkbox"/> Positive pressure	
(3)			
	or		
2.1-2.8.11.3	<input type="checkbox"/> clean supply room <input type="checkbox"/> used only for storage & holding as part of system for distribution of clean & sterile supplies	Ventilation:	
		<input type="checkbox"/> Min. 4 air changes per hour	Table 7-1
		<input type="checkbox"/> Positive pressure	
2.2-2.2.8.12	<input type="checkbox"/> Soiled workroom or soiled holding room		
2.1-2.8.12.2	<input type="checkbox"/> soiled workroom	Ventilation:	
(1)(a)	<input type="checkbox"/> handwashing station	<input type="checkbox"/> Min. 10 air changes per hour	Table 7-1
(1)(b)	<input type="checkbox"/> flushing-rim clinical service sink with bedpan-rinsing device or equivalent flushing-rim fixture	<input type="checkbox"/> Exhaust	
(1)(c)	<input type="checkbox"/> work counter	<input type="checkbox"/> Negative pressure	
(1)(d)	<input type="checkbox"/> space for separate covered containers for waste & soiled linen	<input type="checkbox"/> No recirculating room units	
(2)	<input type="checkbox"/> fluid management system is used		
	<input type="checkbox"/> check if <u>not</u> included in project		
(a)	<input type="checkbox"/> electrical & plumbing connections that meet manufacturer requirements		
(b)	<input type="checkbox"/> space for docking station		
	or		
2.1-2.8.12.3	<input type="checkbox"/> soiled holding room	Ventilation:	
(1)	<input type="checkbox"/> handwashing station or hand sanitation station	<input type="checkbox"/> Min. 10 air changes per hour	Table 7-1
(2)	<input type="checkbox"/> space for separate covered containers for waste & soiled linen	<input type="checkbox"/> Exhaust	
		<input type="checkbox"/> Negative pressure	
		<input type="checkbox"/> No recirculating room units	

Architectural Requirements**Building Systems Requirements**

- 2.2-3.10.8.13(1) ☐ Clean linen storage
 2.1-2.8.13.1
 (1) ☐ stored in clean workroom
or
☐ separate closet
or
☐ covered cart distribution system on each floor
- (2) ☐ storage of clean linen carts in designated corridor alcoves
 clean workroom or closets
- (2) ☐ Clinical equipment & supply storage areas (may be space for supply carts)
- (3) ☐ Storage space for wheelchairs
- (a) ☐ Storage space for gurneys
☐ check if not included in project
- (b) ☐ Area for wheelchair parking
☐ check if not included in project (only if outpatient dialysis services are not provided)
☐ located in non-public area
☐ out of any required egress width
☐ out of any required clearance
☐ minimum one wheelchair storage or parking space provided for every four patient care stations (at least one wheelchair storage or parking space provided where there are fewer than four patient care stations)

- 2.2-3.10.8.14 ☐ Environmental services room
 2.2-3.10.8.14(1) ☐ adjacent* to & for exclusive use of dialysis unit
 2.2-3.10.8.14(2) ☐ water supply & drain connection for testing machines

Ventilation:

- ☐ Min 10 air changes per hour Table 7-1
☐ Exhaust
☐ Negative pressure
☐ No recirculating room units

- 2.1-2.8.14.2
 (1) ☐ service sink or floor-mounted mop sink
 (2) ☐ provisions for storage of supplies & housekeeping equipment
 (3) ☐ handwashing station
or
☐ hand sanitation station

- 2.2-3.10.8.16 ☐ Dialyzer reprocessing room
☐ check if not included in project (only if dialyzers are not processed for reuse on-site)
 (1) ☐ design provides for one-way flow of materials from soiled to clean
 (2) ☐

Ventilation:

- ☐ Min 10 air changes per hour Table 7-1
☐ Exhaust

Architectural Requirements**Building Systems Requirements**

- (a) ☐ refrigeration for temporary storage of dialyzers
- (b) ☐ decontamination/cleaning areas
- (c) ☐ handwashing station
- (d) ☐ processors
- (e) ☐ computer processors & label printers
- (f) ☐ packaging area
- (g) ☐ dialyzer storage cabinets

- ☐ Negative pressure
- ☐ No recirculating room units

2.2-3.10.8.17 ☐ Dialysate preparation room
☐ check if not included in project (only if no central dialysate mixing & delivery system is used to provide individual dialysate solutions for patient treatment)

- (1) ☐ space to accommodate dialysate mixing & distribution equipment
- (2) ☐
- (a) ☐ handwashing station
- (b) ☐ storage space
- (c) ☐ work counter
- (d) ☐ floor drain
- (e) ☐ treated water outlet
☐ check if not included in project (only if no separate treated water distribution system is provided)

2.2-3.10.8.18 ☐ Hemodialysis water treatment equipment area
☐ located in dedicated secure area
☐ space to access all components of equipment

(1) ☐ floor drain

2.2-3.10.8.19 ☐ Equipment repair room
☐ check if not included in project

- (1) ☐ handwashing station
- (2) ☐ treated water outlet for equipment maintenance
☐ drain or clinical service sink for equipment connection & testing
- (3) ☐ work counter
- (4) ☐ storage cabinet

2.2-3.10.9 **SUPPORT AREAS FOR STAFF**

2.2-3.10.9.1 (may be shared with adjacent* diagnostic & treatment areas)

2.2-3.10.9.2

- (1) ☐ Lockers
- (2) ☐ Toilet room
- (3) ☐ handwashing station

Ventilation:

- ☐ Min 10 air changes per hour Table 7-1
- ☐ Exhaust
- ☐ Negative pressure
- ☐ No recirculating room units

- (4) ☐ Eyewash station
- ☐ Emergency shower

Architectural Requirements**Building Systems Requirements**

2.2-3.10.10 **SUPPORT AREAS FOR PATIENTS**
 ___ All support areas listed below are immediately accessible* to dialysis unit

2.2-3.10.10.1 ___ Waiting room

2.2-3.10.10.2 ___ Patient toilet room
 (1) ___ handwashing station

(2) ___
 Ventilation:
 ___ Min 10 air changes per hour Table 7-1
 ___ Exhaust
 ___ Negative pressure
 ___ No recirculating room units
 Nurse Call System: 2.2-3.10.10.2
 ___ Patient toilet room equipped (2)
 with nurse call device

2.2-3.10.10.3 ___ Storage for patient belongings
 2.2-3.10.10.4 ___ Access to drinking water
 2.2-3.10.10.5 ___ Access to public communications services

***LOCATION TERMINOLOGY:**

Directly accessible: Connected to identified area or room through doorway pass-through or other opening without going through intervening room or public space

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

Immediately accessible: Available either in or adjacent to identified area or room

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

Architectural Details & MEP Requirements**2.1-7.2.2 ARCHITECTURAL DETAILS**

2.1-7.2.2.1 **CORRIDOR WIDTH:**
 NFPA 101, ___ Aisles, corridors & ramps required
 18.2.3.3 ___ for exit access in a hospital not less than 8'-0" in clear & unobstructed width
or
 ___ Detailed code review incorporated in Project Narrative
 ___ Aisles, corridors & ramps in adjunct areas not intended for the treatment or use of inpatients not less than 44" in clear & unobstructed width

2.1-7.2.2.2 **CEILING HEIGHT:**
 (1) ___ Min. ceiling height 7'-6" in corridors & in normally unoccupied spaces
 (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

2.1-7.2.2.3 DOORS & DOOR HARDWARE:

(1) **Door Type:**
 (a) ___ doors between corridors, rooms, or spaces subject to occupancy swing type or sliding doors
 ___ sliding doors
 ___ ☐ check if not included in project
 ___ manual or automatic sliding doors comply with NFPA 101
 ___ detailed code review incorporated in Project Narrative
 ___ no floor tracks
 (2) **Door Opening:**
 (a) ___ min. 45.5" clear door width for diagnostic/treatment areas
 ___ min. 83.5" clear door height for diagnostic/treatment areas
 (b) ___ swinging doors for personnel use in addition to sliding doors
 ___ ☐ check if not included in project
 ___ min. clear width 34.5"

<p>(3) Door Swing:</p> <p>(a) <input type="checkbox"/> doors do not swing into corridors except doors to non-occupiable spaces (e.g. environmental services rooms & electrical closets) & doors with emergency breakaway hardware</p>	<p>(5) <input type="checkbox"/> Provisions for drying hands</p> <p>(a) <input type="checkbox"/> hand-drying device does not require hands to contact dispenser</p> <p>(b) <input type="checkbox"/> hand-drying device is enclosed to protect against dust or soil & to ensure single-unit dispensing</p> <p>(6) <input type="checkbox"/> liquid or foam soap dispensers</p>
<p>(4) <input type="checkbox"/> Lever hardware or push/pull latch hardware</p>	<p>2.1-7.2.2.9 GRAB BARS:</p>
<p>(5) Doors for Patient Toilet Facilities:</p> <p>(a) <input type="checkbox"/> two separate doors</p> <p>or</p> <p><input type="checkbox"/> door that swings outward</p> <p>or</p> <p><input type="checkbox"/> door equipped with emergency rescue hardware (permits quick access from outside the room to prevent blockage of the door)</p> <p>or</p> <p><input type="checkbox"/> sliding door other than pocket door</p>	<p>(1) <input type="checkbox"/> Grab bars anchored to sustain concentrated load 250 pounds</p> <p>(3) <input type="checkbox"/> Ends of grab bars constructed to prevent snagging clothes of patients staff & visitors</p>
<p>(b) <input type="checkbox"/> toilet room opens onto public area or corridor</p> <p><input type="checkbox"/> check if <u>not</u> included in project</p> <p><input type="checkbox"/> visual privacy is maintained</p>	<p>2.1-7.2.2.10 HANDRAILS:</p> <p>(1) <input type="checkbox"/> Handrails installed on both sides of patient use corridors</p> <p>(3) <input type="checkbox"/> Rail ends return to wall or floor</p> <p>(4) <input type="checkbox"/> Handrail gripping surfaces & fasteners are smooth (free of sharp or abrasive elements) with 1/8-inch min. radius</p> <p>(5) <input type="checkbox"/> Handrails have eased edges & corners</p> <p>(6) <input type="checkbox"/> Handrail finishes are cleanable</p>
<p>2.1-7.2.2.7 GLAZING MATERIALS:</p> <p><input type="checkbox"/> Glazing within 1 foot 6 inches of floor</p> <p><input type="checkbox"/> check if <u>not</u> included in project</p> <p><input type="checkbox"/> must be safety glass, wire glass or plastic break-resistant material</p>	<p>2.1-7.2.2.12 NOISE CONTROL:</p> <p>(1) <input type="checkbox"/> Recreation rooms, exercise rooms equipment rooms & similar spaces where impact noises may be generated are not located directly over operating suites</p> <p>or</p> <p><input type="checkbox"/> Special provisions are made to minimize impact noise</p>
<p>2.1-7.2.2.8 HANDWASHING STATIONS:</p> <p>(1)(c) <input type="checkbox"/> Handwashing stations in patient care areas located so they are visible & unobstructed</p>	<p>(2) <input type="checkbox"/> Noise reduction criteria in Table 1.2-6 applicable to partitions, floors & ceiling construction are met in patient areas</p>
<p>(3) Handwashing station countertops made of porcelain, stainless steel, solid-surface materials or impervious plastic laminate assembly</p> <p>(a) <input type="checkbox"/> Countertops substrate</p> <p><input type="checkbox"/> check if <u>not</u> included in project</p> <p><input type="checkbox"/> marine-grade plywood (or equivalent material) with impervious seal</p> <p>(4) <input type="checkbox"/> Handwashing station casework</p> <p><input type="checkbox"/> check if <u>not</u> included in project</p> <p><input type="checkbox"/> designed to prevent storage beneath sink</p>	<p>2.1-7.2.3 SURFACES</p> <p>2.1-7.2.3.1 FLOORING & WALL BASES:</p> <p>(1) <input type="checkbox"/> Flooring surfaces cleanable & wear-resistant for location</p> <p>(3) <input type="checkbox"/> Smooth transitions provided between different flooring materials</p> <p>(4) <input type="checkbox"/> Flooring surfaces including those on stairways are stable, firm & slip-resistant</p> <p>(5) <input type="checkbox"/> 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</p> <p>(7)(a) Floors are monolithic & integral coved wall bases are at least 6" high & tightly sealed to wall in rooms listed below:</p> <p><input type="checkbox"/> soiled workroom & soiled holding room</p>

2.1-7.2.3.2	WALLS & WALL PROTECTION:	Part 3/6.1.2.2	Central cooling systems greater than 400 tons (1407 kW) peak cooling load
(1)(a)	___ Wall finishes are washable		
(1)(b)	___ Wall finishes near plumbing fixtures are smooth, scrubbable & water-resistant		<input type="checkbox"/> check if <u>not</u> included in project
(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		___ 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.
(5)	___ Wall protection devices & corner guards durable & scrubbable		
2.1-7.2.3.3	CEILINGS:	Part 3/6.2	AIR-HANDLING UNIT (AHU) DESIGN:
(1)	___ Ceilings provided in all areas except mechanical, electrical & communications equipment rooms	Part 3/6.2.1	___ AHU casing is designed to prevent water intrusion resist corrosion & permit access for inspection & maintenance
(a)	___ Ceilings cleanable with routine housekeeping equipment		
(b)	___ Acoustic & lay-in ceilings where used do not create ledges or crevices	Part 3/6.3	OUTDOOR AIR INTAKES
2.1-7.2.4	FURNISHINGS:	Part 3/6.3.1.1	___ located such that shortest distance from intake to any specific potential outdoor contaminant source be equal to or greater than separation distance listed in Table 6-1
2.1-7.2.4.1	___ built-in furnishings upholstered with impervious materials in patient treatment areas with risks of exposure & contamination from bodily fluids & other fluids		___ located min of 25'-0" from cooling towers & all exhaust & vent discharges
2.1-7.2.4.3	___ Privacy curtains in patient care areas are washable		___ 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-driven rain
Part 3/6.1	UTILITIES:		___ contain features for draining away precipitation
Part 3/6.1.1	Ventilation Upon Loss of Electrical Power:		___ equipped with birdscreen of mesh no smaller than 0.5 in
	___ space ventilation & pressure 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	___ intake in areaway
			<input type="checkbox"/> check if <u>not</u> included in project
Part 3/6.1.2	Heating & Cooling Sources:		___ bottom of areaway air intake opening is at least 6'-0" above grade
Part 3/6.1.2.1	___ heat sources & essential accessories 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		___ bottom of air intake opening from areaway into building is at least 3'-0" above bottom of areaway
	___ capacity of remaining source or sources is sufficient to provide heating for operating rooms & recovery rooms	Part 3/6.4	FILTRATION:
		a.	___ Particulate matter filters, minimum MERV-8 provided upstream of first heat exchanger surface of any air-conditioning system that combines return air from multiple rooms or introduces outdoor air.
		b.	___ Outdoor air filtered in accordance with Table 7-1

c.	<input type="checkbox"/> Air supplied from equipment serving multiple or different spaces is filtered in accordance with Table 7-1	Part 3/7.1.a.4	<input type="checkbox"/> Entire min. outdoor air changes per hour required by Table 7-1 for each space meet filtration requirements of Section 6.4
d.	<input type="checkbox"/> Air recirculated within room is filtered in accordance with Table 7-1, or Section 7.1(a)(5)	Part 3/7.1.a.5	<input type="checkbox"/> Air recirculation through room unit <input type="checkbox"/> check if <u>not</u> included in project <input type="checkbox"/> complies with Table 7-1 <input type="checkbox"/> room unit receive filtered & conditioned outdoor air <input type="checkbox"/> serve only single space <input type="checkbox"/> provides min MERV 8 filter located upstream of any cold surface so that all of air passing over cold surface is filtered
e.	<input type="checkbox"/> Design includes all necessary provisions to prevent moisture accumulating on filters located downstream of cooling coils & humidifiers		
h.	<input type="checkbox"/> For spaces that do not permit air recirculated by means of room units & have minimum filter efficiency of MERV-14, MERV-16 or HEPA in accordance with Table 7-1, the min. filter requirement listed in Table 7-1, is installed downstream of all wet-air cooling coils & supply fan	2.1-8.3	ELECTRICAL SYSTEMS
Part 3/6.7	AIR DISTRIBUTION SYSTEMS:	2.1-8.3.2	ELECTRICAL DISTRIBUTION & TRANSMISSION
Part 3/6.7.1	<input type="checkbox"/> Maintain pressure relationships required in tables 7.1 in all modes of HVAC system operation <input type="checkbox"/> Spaces that have required pressure relationships are served by fully ducted return systems or fully ducted exhaust systems <input type="checkbox"/> Inpatient facilities & recovery rooms are served by fully ducted return or exhaust systems	2.1-8.3.2.2	Panelboards:
		(1)	<input type="checkbox"/> panelboards serving life safety branch circuits serve floors on which they are located & floors immediately above & below
		(2)	<input type="checkbox"/> panelboard critical branch circuits serve floors on which they are located
		(3)	<input type="checkbox"/> panelboards not located in exit enclosures or exit passageways
Part 3/6.7.2	Air Distribution Devices: <input type="checkbox"/> supply air outlets comply with Table 6-2	2.1-8.3.3	POWER-GENERATING & -STORING EQUIPMENT
Part 3/6.7.3	Smoke Barriers: <input type="checkbox"/> HVAC zones coordinated with compartmentation to minimize ductwork penetrations of fire & smoke barriers.	2.1-8.3.3.1	<input type="checkbox"/> Essential electrical system or emergency electrical power
		(1)	<input type="checkbox"/> essential electrical system complies with NFPA 99
		(2)	<input type="checkbox"/> emergency electrical power complies with NFPA 99
Part 3/6.8	ENERGY RECOVERY SYSTEMS: <input type="checkbox"/> check if <u>not</u> included in project	2.1-8.3.4	LIGHTING
Part 3/6.8.1	<input type="checkbox"/> Located upstream of filters required by Part 3/6.8.4	2.1-8.3.4.1(1)	<input type="checkbox"/> Luminaires in patient areas have smooth, cleanable, impact-resistant lenses concealing light source
Part 3/7	SPACE VENTILATION—HOSPITAL SPACES:	2.1-8.3.4.1(2)	<input type="checkbox"/> Luminaires designed to dissipate heat such that touchable surfaces will not burn occupants or ignite materials.
Part 3/7.1.a	<input type="checkbox"/> Spaces ventilated according to Table 7-1	(7)	<input type="checkbox"/> Uplight fixtures installed in patient care areas are covered
Part 3/7.1.a.1	<input type="checkbox"/> Air movement is from clean to less-clean areas	2.1-8.3.5	ELECTRICAL EQUIPMENT
Part 3/7.1.a.3	<input type="checkbox"/> Min number of total air changes required for positive pressure rooms is provided by total supply airflow <input type="checkbox"/> Min number of total air changes required for negative pressure rooms is provided by total exhaust airflow	2.1-8.3.5.1	<input type="checkbox"/> Handwashing sinks & scrub sinks that depends on building electrical service for operation are connected to essential electrical system
		2.1-8.3.5.2	<input type="checkbox"/> Electronic health record system servers & centralized storage provided with uninterruptible power supply

- 2.1-8.3.6 **ELECTRICAL RECEPTACLES**
 2.1-8.3.6.1 Receptacles In Corridors:
 (1) ☐ 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

- 2.1-8.3.6.3 Essential Electrical System Receptacles:
 (1) ☐ cover plates for electrical receptacles supplied from essential electrical system are distinctively colored or marked for identification
 (2) ☐ same color is used throughout facility

- 2.1-8.4 **PLUMBING SYSTEMS**
 2.1-8.4.2 Plumbing & Other Piping Systems:
 2.1-8.4.2.1(3) ☐ no plumbing piping exposed overhead or on walls where possible accumulation of dust or soil may create cleaning problem

- 2.1-8.4.2.2 Hemodialysis/Hemoperfusion Water Distribution:
 (1)(a) ☐ separate treated water distribution system
 (2)(b) ☐ outlet at each individual hemodialysis treatment bay
☐ outlet at hemodialysis equipment repair area
☐ outlet at dialysate preparation area

or

- (1)(b) ☐ dialysis equipment includes sufficient water treatment provisions for use of domestic cold water
 (1)(a) ☐ drainage system independent from tap water
 (4) ☐ liquid waste & disposal system for hemodialysis treatment area are designed to minimize odor & prevent backflow
 (5) ☐ hemodialysis distribution piping is readily accessible* for inspection & maintenance

- 2.1-8.4.2.5 Heated Potable Water Distribution Systems:
 (2) ☐ heated potable water distribution systems serving patient care areas are under constant recirculation
☐ non-recirculated fixture branch piping max. 25'-0" in length
 (3)(a) ☐ no installation of dead-end piping (except for empty risers mains & branches for future use)
 (3)(c)

- (3)(b) ☐ any existing dead-end piping is removed
☐ check if not included in project
 (4)(a) ☐ water-heating system supplies water at temperatures & amounts indicated in Table 2.1-4

- 2.1-8.4.2.6 Drainage Systems:
 (1)(a) ☐ drainage piping installed above ceiling of or exposed in rooms listed below piping have special provisions (e.g double wall containment piping or oversized drip pans) to protect space below from leakage & condensation
- operating rooms
 - delivery rooms
 - procedure rooms
 - trauma rooms
 - nurseries
 - central kitchens
 - one-room sterile processing facilities
 - clean workroom of two-room sterile processing facilities
 - pharmacies
 - Class 2 & 3 imaging rooms
 - electronic mainframe rooms (EFs & TERs)
 - main switchgear
 - electrical rooms
 - electronic data processing areas
 - electric closets
- (1)(b) ☐ drip pan for drainage piping above ceiling of sensitive area
☐ check if not included in project
☐ accessible
☐ overflow drain with outlet located in normally occupied area that is not open to restricted 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 & 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
 (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)	<input type="checkbox"/> sink basins are made of porcelain stainless steel or solid-surface materials	2.1-8.5.1 2.1-8.5.1.1(1)	CALL SYSTEMS <input type="checkbox"/> Nurse call stations provided as required in Table 2.1-2
(5)	<input type="checkbox"/> water discharge point of faucets is at least 10" above bottom of basin	2.1-8.5.1.1(2)	<input type="checkbox"/> Nurse call systems report to attended location with electronically supervised visual & audible annunciation as indicated in Table 2.1-2
(7)	<input type="checkbox"/> anchored so that allowable stresses are not exceeded where vertical or horizontal force of 250 lbs is applied	2.1-8.5.1.1(4)	<input type="checkbox"/> Call system complies with UL 1069 "Standard for Hospital Signaling & Nurse Call Equipment"
(8)	<input type="checkbox"/> sinks used by medical & nursing staff patients & public have fittings that can be operated without using hands (may be single-lever or wrist blade devices)	2.1-8.5.1.1(5)	<input type="checkbox"/> Wireless nurse call system <input type="checkbox"/> check if <u>not</u> included in project <input type="checkbox"/> complies with UL 1069
(a)	<input type="checkbox"/> blade handles <input type="checkbox"/> check if <u>not</u> included in project <input type="checkbox"/> at least 4 inches in length <input type="checkbox"/> provide clearance required for operation	2.1-8.5.1.2(4)	<input type="checkbox"/> Nurse call system provided in each patient care area as required in Table 2.1-2
(b)	<input type="checkbox"/> sensor-regulated water fixtures <input type="checkbox"/> check if <u>not</u> included in project <input type="checkbox"/> meet user need for temperature & length of time water flows <input type="checkbox"/> designed to function at all times & during loss of normal power	2.1-8.5.1.3	Bath Stations: <input type="checkbox"/> bath station that can be activated by patient lying on floor provided at each patient toilet <input type="checkbox"/> alarm in these areas can be turned off only at bath station where it was initiated <input type="checkbox"/> toilet bath stations located on the side of toilets within 12" of front of toilet bowl & 3'-0" to 4'-0" above floor
2.1-8.4.3.4	Ice-Making Equipment: <input type="checkbox"/> copper tubing provided for supply connections to ice-making equipment	2.1-8.5.1.5	<input type="checkbox"/> Emergency call stations are equipped with continuous audible or visual confirmation to person who initiated the code call
2.1-8.4.3.5	Clinical Sinks: <input type="checkbox"/> check if <u>not</u> included in project <input type="checkbox"/> trimmed with valves that can be operated without hands (may be single-lever or wrist blade devices) <input type="checkbox"/> handles are at least 6 in long <input type="checkbox"/> integral trap wherein upper portion of water trap provides visible seal	2.1-8.5.3	EMERGENCY COMMUNICATION SYSTEM <input type="checkbox"/> Emergency-radio communication system provided in each facility <input type="checkbox"/> operates independently of building's service & emergency power systems during emergencies <input type="checkbox"/> frequency capabilities to communicate with state emergency communication networks
2.1-8.4.4	MEDICAL GAS & VACUUM SYSTEMS <input type="checkbox"/> Station outlets provided as indicated in Table 2.1-3	2.1-8.5.3.1	ELECTRONIC SURVEILLANCE SYSTEMS <input type="checkbox"/> check if <u>not</u> included in project
		2.1-8.6.2	<input type="checkbox"/> Display screens in patient areas are mounted in tamper-resistant enclosure that is unobtrusive
		2.1-8.6.2.1	<input type="checkbox"/> Display screens are located so they are not readily observable by general public or patients
		2.1-8.6.2.2	<input type="checkbox"/> Electronic surveillance systems receive power from essential electrical system
		2.1-8.6.2.3	