COMPLIANCE CHECKLIST

**IP19 Renal Dialysis Services (Acute and Chronic)**

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

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

- **X** = Requirement is met, for new space, for renovated space, or for existing direct support space for an expanded service.
- **E** = Requirement relative to an existing suite or area that has been licensed for its designated function, is not affected by the construction project and does not pertain to a required direct support space for the specific service affected by the project. “E” must not be used for an existing required support space associated with a new patient care room or area.
- **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:

Facility Address:

Satellite Name: (if applicable)

Satellite Address: (if applicable)

Project Description:

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**DoN Project Number**: (if applicable)

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Building/Floor Location:

Submission Dates:

Initial Date:

Revision Date:

MDPH/DHCFLC 12/19 IP19
2.2-3.10 **RENAAL DIALYSIS SERVICES (ACUTE & CHRONIC)**

2.2-3.10.1.1 Application:
□ 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

2.2-3.10.2 **HEMODIALYSIS TREATMENT AREA**
□ check if not included in project (only if dialysis is provided in acute or intensive care unit)

2.2-3.10.2.1(2) Treatment area separate from administrative waiting areas
(3) No built-in cabinetry in individual hemodialysis patient care stations

2.2-3.10.2.2 Space Requirements for Individual Hemodialysis Patient Care Stations:
(1)(a) patient care stations with dialysis chairs
□ check if not included in project
□ min. clear floor area of 80 sf
□ min. clearance 4'-0" between sides of dialysis chairs
Ventilation: □ Min. 6 air changes per hour Table 7.1

Power: □ Min. 8 receptacles Table 2.1-1
□ Min. 4 receptacles on each side of bed or lounge chair
□ Min. 2 receptacles on each side of bed connected to emergency power

(2)(a) min. clearance 3'-0" between sides of dialysis chairs and adjacent* walls or partitions
□ min. clearance 2'-0" between foot of dialysis chairs and cubicle curtains

(2)(b) min. clearance 3'-0" between sides of dialysis chairs and adjacent* walls or partitions
□ min. clearance 2'-0" between foot of dialysis chairs and cubicle curtains

(1)(b) patient care stations with beds
□ check if not included in project
□ min. clear floor area of 90 sf
□ min. clearance 4'-0" between sides of beds
Ventilation: □ Min. 6 air changes per hour Table 7.1

Power: □ Min. 8 receptacles Table 2.1-1
□ Min. 4 receptacles on each side of bed or lounge chair
□ Min. 2 receptacles on each side of bed connected to emergency power

(2)(b) □ min. clearance 3'-0" between sides of beds and adjacent* walls or partitions
□ min. clearance 2'-0" between foot of beds and cubicle curtains

2.2-3.10.2.4 Space available to accommodate provisions for patient privacy

2.2-3.10.2.5(1) Handwashing stations
2.2-3.10.2.5(2) located at entry to hemodialysis treatment area (may contribute to total number of handw. stations required)

2.1-2.8.7.1 located in each room where hands-on patient care is provided
**Architectural 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

2.2-3.10.3  
___ 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

**Building Systems Requirements**

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

**Support Areas for Renal Dialysis Unit**

2.2-3.10.8  
___ nurse station designed to provide visual observation of all individual dialysis treatment bays

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

2.2-3.10.8.8  
___ dedicated medication safety zone  
___ centrally located in dialysis  
___ at least 6'-0" from any individual dialysis treatment chair or bed

2.2-3.10.8.8(1)  
2.1-2.8.8.1(2)(a)  
___ Design Promoting Safe Medication Use:  
___ medication safety zones located out of circulation paths

2.1-2.8.8.1(2)(b)  
___ work space designed so that staff can access information & perform required tasks

2.1-2.8.8.1(2)(c)  
___ work counters provide space to perform required tasks

2.1-2.8.8.1(2)(e)  
___ sharps containers placed at height that allows users to see top of container

2.1-2.8.8.1(2)(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)
### Architectural Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
</tr>
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</table>
| 2.1-2.8.8.2(1) | ___ medication preparation room
| (a)  | ___ under visual control of nursing staff
| (b)  | ___ work counter
| (c)  | ___ lockable refrigerator
|      | ___ locked storage for controlled drugs
|      | ___ sharps containers
|      | □ check if not included in project
| or  | ___ self-contained
|     | ___ medication-dispensing unit
|     | □ check if not included in project
|     | ___ room designed with space to prepare medications

2.1-2.8.8.2(2) | ___ automated medication-dispensing unit
| (a)  | ___ located at nurse station, in clean workroom or in alcove
| (c)  | ___ handwashing station located next to stationary medication-dispensing units or stations

### Building Systems Requirements

<table>
<thead>
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</table>
| Ventilation | ___ Min. 4 air changes per hour
|   | Table 7.1
| Lighting   | ___ Task lighting
|     | 2.1-2.8.8.1(2)(d)

2.2-3.10.8.11 | ___ Clean workroom

2.1-2.8.11.2 | (1) ___ work counter
| (2)  | ___ handwashing station
| (3)  | ___ storage facilities for clean & sterile supplies

2.2-3.10.8.12 | ___ Soiled workroom
| (1)(a) | ___ handwashing station
| (1)(b) | ___ flushing-rim clinical service sink with bedpan-rinsing device or equivalent flushing-rim fixture
| (1)(c) | ___ work counter
| (1)(d) | ___ space for separate covered containers for waste & soiled linen
| (2)  | ___ fluid management system is used
|     | □ check if not included in project
| (a)  | ___ electrical & plumbing connections that meet manufacturer requirements
| (b)  | ___ space for docking station

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

MDPH/DHCFLC
## Architectural Requirements

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<td>Environmental services room</td>
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<tr>
<td>2.2.3.10.8.14(1)</td>
<td>adjacent* to &amp; for exclusive use of dialysis unit</td>
</tr>
<tr>
<td>2.2.3.10.8.14(2)</td>
<td>water supply &amp; drain connection for testing machines</td>
</tr>
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<td>2.1-2.8.14.1</td>
<td>readily accessible* to unit or floor it serves (permitted to serve more than one patient care unit on floor)</td>
</tr>
<tr>
<td>2.1-2.8.14.2</td>
<td>(1) service sink or floor-mounted mop sink</td>
</tr>
<tr>
<td></td>
<td>(2) provisions for storage of supplies &amp; housekeeping equipment</td>
</tr>
<tr>
<td></td>
<td>(3) handwashing station</td>
</tr>
<tr>
<td></td>
<td>or hand sanitation station</td>
</tr>
<tr>
<td>2.2.3.10.8.16</td>
<td>Dialyzer reprocessing room</td>
</tr>
<tr>
<td></td>
<td>(1) design provides for one-way flow of materials from soiled to clean</td>
</tr>
<tr>
<td></td>
<td>(2) refrigeration for temporary storage of dialyzers</td>
</tr>
<tr>
<td></td>
<td>(a) decontamination/cleaning areas</td>
</tr>
<tr>
<td></td>
<td>(b) handwashing station</td>
</tr>
<tr>
<td></td>
<td>(c) processors</td>
</tr>
<tr>
<td></td>
<td>(d) computer processors &amp; label printers</td>
</tr>
<tr>
<td></td>
<td>(f) packaging area</td>
</tr>
<tr>
<td></td>
<td>(g) dialyzer storage cabinets</td>
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*Ventilation:* Min. 10 air changes per hour Table 7.1

*Exhaust* Negative pressure No recirculating room units
### Architectural Requirements

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<tbody>
<tr>
<td><strong>2.2-3.10.8.17</strong> Dialysate preparation room</td>
<td>☐ check if not included in project (only if no central dialysate mixing &amp; delivery system is used to provide individual dialysate solutions for patient treatment)</td>
</tr>
<tr>
<td>(1) space to accommodate dialysate mixing &amp; distribution equipment</td>
<td></td>
</tr>
<tr>
<td>(2) (a) handwashing station</td>
<td></td>
</tr>
<tr>
<td>(b) storage space</td>
<td></td>
</tr>
<tr>
<td>(c) work counter</td>
<td></td>
</tr>
<tr>
<td>(d) floor drain</td>
<td></td>
</tr>
<tr>
<td>(e) treated water outlet</td>
<td>☐ check if not included in project (only if no separate treated water distribution system is provided)</td>
</tr>
</tbody>
</table>

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</tr>
</thead>
<tbody>
<tr>
<td><strong>2.2-3.10.8.18</strong> Hemodialysis water treatment equipment area</td>
<td>located in dedicated secure area</td>
</tr>
<tr>
<td>(1) floor drain</td>
<td></td>
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</tbody>
</table>

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</tr>
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<tbody>
<tr>
<td><strong>2.2-3.10.8.19</strong> Equipment repair room</td>
<td>☐ check if not included in project</td>
</tr>
<tr>
<td>(1) handwashing station</td>
<td></td>
</tr>
<tr>
<td>(2) treated water outlet for equipment maintenance</td>
<td></td>
</tr>
<tr>
<td>(3) floor drain</td>
<td></td>
</tr>
<tr>
<td>(4) work counter</td>
<td></td>
</tr>
<tr>
<td>(5) storage cabinet</td>
<td></td>
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</tbody>
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### Building Systems Requirements

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<tr>
<td><strong>2.2-3.10.9</strong> SUPPORT AREAS FOR STAFF</td>
<td>(may be shared with adjacent* diagnostic &amp; treatment areas)</td>
</tr>
<tr>
<td><strong>2.2-3.10.9.1</strong> Lockers</td>
<td></td>
</tr>
<tr>
<td><strong>2.2-3.10.9.2</strong> Toilet room</td>
<td></td>
</tr>
<tr>
<td>(3) handwashing station</td>
<td>Ventilation:</td>
</tr>
<tr>
<td>(4) Eyewash station</td>
<td>☐ Min. 10 air changes per hour</td>
</tr>
<tr>
<td>(5) Emergency shower</td>
<td>☐ Exhaust</td>
</tr>
<tr>
<td></td>
<td>☐ Negative pressure</td>
</tr>
<tr>
<td></td>
<td>☐ No recirculating room units</td>
</tr>
</tbody>
</table>

### Support Areas for Patients

<table>
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<tr>
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<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2.2-3.10.10.1</strong> Waiting room</td>
<td>All support areas listed below are immediately accessible* to dialysis unit</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Architectural Requirements

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

(2)

2.2-3.10.10.3  ____ Storage for patient belongings
2.2-3.10.10.4  ____ Provisions for drinking water
2.2-3.10.10.5  ____ Provisions for telephone access

Building Systems Requirements

Ventilation:
- ____ Min. 10 air changes per hour
- ____ Exhaust
- ____ Negative pressure
- ____ No recirculating room units

Table 7.1

Nurse Call System:
- ____ Patient toilet room equipped with nurse call device

2.2-3.10.10.2

(2)

*LOCATION TERMINOLOGY:

Directly accessible: 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
2.1-7.2.2 ARCHITECTURAL DETAILS

2.1-7.2.2.1 Aisles, corridors & ramps required for exit access in a hospital not less than 8'-0" in clear & unobstructed width

or

Detailed code review incorporated in Project Narrative

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

2.1-7.2.2.3 DOORS & DOOR HARDWARE:

(a) doors between corridors, rooms, or spaces subject to occupancy swing type or sliding doors

(b) check if not included in project

(b) manual or automatic sliding doors comply with NFPA 101

(b) detailed code review included in Project Narrative

(b) no floor tracks

2.1-7.2.2.4 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

(3) Min. ceiling height 7'-10" in other areas

2.1-7.2.2.5 HANDWASHING STATIONS:

(1) Handwashing stations in patient care areas located so they are visible & unobstructed

(3) Handwashing station countertops made of porcelain, stainless steel, solid-surface materials or impervious plastic laminate assembly

(b) Check if not included in project

(b) marine-grade plywood (or equivalent material) with impervious seal

(4) Handwashing station casework

(4) check if not included in project

(4) designed to prevent storage beneath sink

(5) Provisions for drying hands

(5) check if not included in project

(5) only at hand scrub facilities

(a) Hand-drying device does not require hands to contact dispenser

(b) Hand-drying device is enclosed to protect against dust or soil & to ensure single-unit dispensing

(6) Liquid or foam soap dispensers

(4) Lever hardware or push/pull latch hardware

(5) Doors for Patient Toilet Facilities:

(a) two separate doors

(b) door that swings outward

(c) door equipped with emergency rescue hardware (permits quick access from outside the room to prevent blockage of the door)

(d) sliding door other than pocket door

(4) toilet room opens onto public area or corridor

□ check if not included in project

□ check if visual privacy is maintained

2.1-7.2.2.6 GLAZING MATERIALS:

Glazing within 1 foot 6 inches of floor

□ check if not included in project

□ must be safety glass, wire glass or plastic break-resistant material

2.1-7.2.2.7 HANDWASHING STATIONS:

(1)c Handwashing stations in patient care areas located so they are visible & unobstructed

(3) Handwashing station countertops made of porcelain, stainless steel, solid-surface materials or impervious plastic laminate assembly

(b) Check if not included in project

(b) marine-grade plywood (or equivalent material) with impervious seal

(4) Handwashing station casework

(4) check if not included in project

(4) designed to prevent storage beneath sink

(5) Provisions for drying hands

(5) check if not included in project

(5) only at hand scrub facilities

(a) Hand-drying device does not require hands to contact dispenser

(b) Hand-drying device is enclosed to protect against dust or soil & to ensure single-unit dispensing

(6) Liquid or foam soap dispensers
2.1-7.2.2.9 GRAB BARS:
(1) Grab bars anchored to sustain concentrated load 250 pounds
(3) Ends of grab bars constructed to prevent snagging clothes of patients staff & 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 with 1/8-inch min. radius
(5) Handrails have eased edges & corners
(6) Handrail finishes are cleanable

2.1-7.2.2.12 NOISE CONTROL:
(1) 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
2.1-7.2.3.1 FLOORING & WALL BASES:
(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 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 & water-resistant
(2) Wall surfaces in areas routinely subjected to wet spray or splatter are monolithic or have sealed seams that are tight & smooth
(5) Wall protection devices & corner guards durable & scrubbable

2.1-7.2.3.3 CEILINGS:
(1) Ceilings provided in all areas except mechanical, electrical & communications equipment rooms
(a) Ceilings cleanable with routine housekeeping equipment
(b) Acoustic & lay-in ceilings where used do not create ledges or crevices

2.1-7.2.4 FURNISHINGS:
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

2.1-7.2.4.3 Privacy curtains in patient care areas are washable
☐ check if not included in project

2.1-8.2 HEATING VENTILATION & AIR-CONDITIONING (HVAC) SYSTEMS

Part 3/6.1 UTILITIES:
Part 3/6.1.2 Heating & Cooling Sources:
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
Part 3/6.2 AIR-HANDLING UNIT (AHU) DESIGN:
Part 3/6.2.1 AHU casing is designed to prevent water intrusion, resist corrosion & permit access for inspection & maintenance
Part 3/6.3 OUTDOOR AIR INTAKES & EXHAUST DISCHARGES:
Part 3/6.3.1 Outdoor Air Intakes:
Part 3/6.3.1.1 located min. of 25'-0" 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 not included in project
☐ located with bottom of air intake min. of 3'-0" above roof level
Part 3/6.3.1.4 intake in areaway
☐ check if not 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 3/6.4 FILTRATION:
☐ Two filter banks for inpatient care (see Table 6.4)
☐ 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
Part 3/6.4.1 Filter Bank No. 1 is placed upstream of heating & cooling coils
Part 3/6.4.2 Filter Bank No. 2 is placed downstream of all wet-air cooling coils & supply fan

Part 3/6.7 AIR DISTRIBUTION SYSTEMS:
Part 3/6.7.1 Maintain pressure relationships required in tables 7.1 in all modes of HVAC system operation
☐ Spaces that have required pressure relationships are served by fully ducted return systems or fully ducted exhaust systems
☐ Inpatient facilities & recovery rooms are served by fully ducted return or exhaust systems

Part 3/6.8 ENERGY RECOVERY SYSTEMS:
☐ check if not included in project
Part 3/6.8.1 Located upstream of Filter Bank No. 2
Part 3/6.8.2 All room exhaust systems are not used for energy recovery

Part 3/6.8.3 Energy recovery systems with leakage potential
☐ check if not included in project
☐ arranged to minimize potential to transfer exhaust air directly back into supply airstream
☐ designed to have no more than 5% of total supply airstream consisting of exhaust air not used from these exhaust airstream sources: soiled workroom

Part 3/7 SPACE VENTILATION
Part 3/7.1.a Spaces ventilated according to Table 7.1
Part 3/7.1.a.1 Air movement 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
Part 3/7.1.a.4 Entire minimum outdoor air changes per hour required by Table 7.1 for each space meet filtration requirements of Section 6.4
Part 3/7.1a.5 Air recirculation through room unit
☐ check if not 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

2.1-8.3 ELECTRICAL SYSTEMS
2.1-8.3.2 ELECTRICAL DISTRIBUTION & TRANSMISSION
2.1-8.3.2.2 Panelboards:
(1) panelboards serving life safety 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
2.1-8.3.3 **POWER-GENERATING & -STORING EQUIPMENT**

2.1-8.3.3.1 Essential electrical system or emergency electrical power

(1) Essential electrical system complies with NFPA 99

(2) Emergency electrical power complies with NFPA 99

2.1-8.3.5 **ELECTRICAL EQUIPMENT**

2.1-8.3.5.1 Handwashing sinks that depend on building electrical service for operation are connected to essential electrical system

☐ check if not included in project

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

(2) 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:

(1) No plumbing piping exposed overhead or on walls where possible accumulation of dust or soil may create cleaning problem

2.1-8.4.2.1(3) 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

2.1-8.4.2.6 Drainage Systems:

(1)(a) Drainage piping installed above ceiling of or exposed in electronic data processing areas & electric closets

☐ check if not included in project

(3)(a) Special provisions to protect space below from leakage & condensation

(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

2.1-8.4.3 **PLUMBING FIXTURES**

2.1-8.4.3.1 Materials used for plumbing fixtures are non-absorptive & acid-resistant

2.1-8.4.3.2 Handwashing Station Sinks:

(1) Sinks in handwashing stations are designed with basins that will reduce risk of splashing to areas where direct patient care is provided, sterile procedures are performed & medications are prepared

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(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 porcelain, stainless steel or solid-surface materials
(5) water discharge point of faucets is at least 10” above bottom of basin
(7) anchored so that allowable stresses are not exceeded where vertical or horizontal force of 250 lbs. is applied
(8) 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
      ☐ check if not included in project
      □ at least 4 inches in length
      □ provide clearance required for operation
   (b) sensor-regulated water fixtures
      ☐ check if not included in project
      □ meet user need for temperature & length of time water flows
      □ designed to function at all times and during loss of normal power

2.1-8.4.3.4 Ice-Making Equipment:
   □ copper tubing provided for supply connections to ice-making equipment

2.1-8.4.3.5 Clinical Flushing-Rim Sinks:
(1) trimmed with valves that can be operated without hands (may be single-lever or wrist blade devices)
   (a) handles are at least 6 in. long
   (b) integral trap wherein upper portion of water trap provides visible seal

2.1-8.4.4 MEDICAL GAS & VACUUM SYSTEMS
   □ Station outlets provided as indicated in Table 2.1-3

2.1-8.5.1 CALL SYSTEMS

2.1-8.5.1.1 Nurse call stations provided as required in Table 2.1-2
   (1) Nurse call systems report to attended location with electronically supervised visual & audible annunciation as indicated in Table 2.1-2
   (2) Call system complies with UL 1069 “Standard for Hospital Signaling & Nurse Call Equipment”
   (5) Wireless nurse call system □ check if not included in project
      □ complies with UL 1069

2.1-8.5.1.2(4) Nurse call system provided in each patient care area as required in Table 2.1-2

2.1-8.5.1.3 Bath Stations:
   □ bath station that can be activated by patient lying on floor provided at each patient toilet
   (1) alarm in these areas can be turned off only at bath station where it was initiated
   (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

2.1-8.6.2 ELECTRONIC SURVEILLANCE SYSTEMS
   □ check if not included in project
   (2) monitoring devices are located so they are not readily observable by public or patients
   (2) electronic surveillance systems receive power from essential electrical system