**COMPLIANCE CHECKLIST**

**IP14\_Observation 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 2022 Edition of the FGI Guidelines for Design and Construction of Hospitals. Applicants must verify compliance of the plans submitted to the Department with all referenced requirements from the Licensure Regulations and FGI Guidelines when completing this Checklist. A separate Checklist must be completed for each nursing unit, hospital or clinic department, or clinical suite.

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

1. NFPA 101 Life Safety Code (2012) and applicable related standards contained in the appendices of the Code
2. State Building Code (780 CMR)
3. Accreditation requirements of The Joint Commission
4. CDC Guidelines for Preventing the Transmission of Mycobacterium Tuberculosis in Health Care Facilities
5. USP 797 & Regulations of the Massachusetts Board of Registration in Pharmacy
6. Occupational Safety & Health Standards (OSHA)
7. Accessibility Guidelines of the Americans with Disabilities Act (ADA)
8. Architectural Access Board Regulations (521 CMR)
9. 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. | ⌧ = Check box under section titles or individual requirements lines for optional services or functions that are not included in the project area. |
| **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. |

1. All room functions marked with "X" must be shown on the plans with the same name labels as in this checklist.
2. 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.
3. 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”.
4. Requirements referenced with “FI” result from formal interpretations from the FGI Interpretations Task Group.
5. The location requirements including asterisks (\*) refer to the definitions of the Glossary in the beginning section of the FGI Guidelines and reproduced in this checklist.

|  |  |  |
| --- | --- | --- |
| Facility Name: |  | DoN Project Number: (if applicable) |
| Facility Address: |  |  |
| Satellite Name: (if applicable) |  | Building/Floor Location: |
| Satellite Address: (if applicable) |  | Submission Dates:  |
| Project Description: |  | Initial Date: Revision Date:  |

|  | **Architectural Requirements** | **Building Systems Requirements** |  |
| --- | --- | --- | --- |
| 2.2-3.3 | **OBSERVATION UNIT** |  |  |
| 2.2-3.3.1.1 |  Application: \_\_\_ unit provided for outpatients requiring observation (e.g. clinical decision unit or chest pain center) |  |  |
|  |  |  |  |
| 2.2-3.3.1.2 |  Location: \_\_\_ located in emergency department or elsewhere in hospital |  |  |
|  |  |  |  |
| 2.2-3.3.2 | **PATIENT CARE STATIONS** |  |  |
|  | \_\_\_ Single-patient treatment rooms[ ]  check if not included in project  |  |  |
| 2.1‑3.2.2.1 | Space Requirements: | Ventilation:  |  |
| (1) | New Construction:\_\_\_ min. clear floor area 120 sf\_\_\_ min. clear dimension 10’‑0”**or** Renovation:\_\_\_ min. clear floor area 100 sf | \_\_\_ Min. 6 air changes per hourLighting:\_\_\_ Portable or fixed exam lightPower:\_\_\_ Min. 8 receptacles in total\_\_\_ Min. 4 receptacles convenient to head of gurney or bed | Table 7-12.1‑8.3.4.3(3)Table 2.1-1 |
|  |  | Nurse Call System: |  |
| 2.2-3.3.2.2(2) (b)  | \_\_\_ min. clearance 3’-0” between walls or partitions & sides of beds | \_\_\_ Emergency call station Medical Gases:\_\_\_ 1 OX, 1 VAC | Table 2.1-2Table 2.1-3 |
|  |  |  |  |
| 2.1‑3.2.3.2(2)  | \_\_\_ accommodations for written or electronic documentation |  |  |
| 2.1‑3.2.3.2(3) 2.1‑3.2.3.4 | \_\_\_ space for visitor’s chair\_\_\_ supply storage |  |  |
|  |  |  |  |
| 2.2-3.3.2.5 | \_\_\_ handwashing station |  |  |
| 2.1‑2.8.7.1 | \_\_\_ located in each room where hands‑on patient care is provided |  |  |
|  |  |  |  |
| 2.2-3.1.3.6(3) | \_\_\_ Multiple-patient treatment rooms[ ]  check if not included in project  |  |  |
| 2.1‑3.2.3.1 |  Space Requirements: | Ventilation:  |  |
| (1)  | \_\_\_ separate patient bays or cubicles with min. clear floor area 80 sf per patient care station | \_\_\_ Min. 6 air changes per hourLighting:\_\_\_ Portable or fixed exam light | Table 7-12.1‑8.3.4.3(3) |
| (2)(a)  | \_\_\_ min. 5’‑0” between sides of adjacent\* patient beds | Power:\_\_\_ Min. 8 receptacles in total | Table 2.1-1 |
| (2)(b) | \_\_\_ min. 4’‑0” between sides of patient beds & adjacent\* walls or partitions | \_\_\_ Min. 4 receptacles convenient to head of gurney or bed |  |
| 2.1‑3.2.3.2(2)  | \_\_\_ accommodations for written or electronic documentation | Nurse Call System:\_\_\_ Emergency call station  | Table 2.1-2 |
| 2.1‑3.2.3.2(3) 2.1‑3.2.3.4 | \_\_\_ space for visitor’s chair\_\_\_ readily accessible supply storage | Medical Gases:\_\_\_ 1 OX, 1 VAC per station | Table 2.1-3 |
|  |  |  |  |
| 2.2-3.3.2.3 |  Patient Privacy: |  |  |
| 2.1‑2.1.2 | \_\_\_ provisions are made to address patient visual & speech privacy |  |  |
| 2.2-3.3.2.5 | \_\_\_ Handwashing station |  |  |
| 2.1‑2.8.7.1 | \_\_\_ located in each room where hands‑on patient care is provided |  |  |
| 2.1‑2.8.7.3 | \_\_\_ handwashing station serves multiple patient care stations[ ]  check if 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 |  |  |
|  |  |  |  |
| 2.2-3.3.2.6 | \_\_\_ Patient toilet room \_\_\_ at least one toilet room for each six patient care stations & for each major fraction thereof\_\_\_ handwashing station | Ventilation:\_\_\_ Min. 10 air changes per hour\_\_\_ Exhaust\_\_\_ Negative pressure\_\_\_ No recirculating room units | Table 7-1 |
|  |  |  |  |
| 2.2-3.3.2.7 | \_\_\_ Shower room  | Ventilation: |  |
| (1) | \_\_\_ min. of one shower room provided in observation unit (combination of the shower room & toilet room in same room is permitted)**or** | \_\_\_ Min. 10 air changes per hour\_\_\_ Exhaust\_\_\_ Negative pressure\_\_\_ No recirculating room units | Table 7-1 |
| (2) | \_\_\_ each patient care station is a single-patient room with directly accessible toilet room & shower that serves only that single-patient room |  |  |
|  |  |  |  |
| 2.2-3.3.8 | **SUPPORT AREAS FOR OBSERVATION UNIT** |  |  |
| 2.2-3.3.8.1 |  |  |  |
| (1)  | \_\_\_ Nurse station  |  |  |
|  | \_\_\_ positioned to allow observation of each bay or cubicle or single-patient room entry |  |  |
|  |  |  |  |
| (2) | \_\_\_ Nourishment area or room (may be shared with another unit) |  |  |
| 2.1‑2.8.9.2(1) | \_\_\_ handwashing station | Ventilation:  |  |
| 2.1‑2.8.9.2(2) | \_\_\_ work counter | \_\_\_ Min. 2 air changes per hour | Table 7-1 |
| 2.1‑2.8.9.2(3) | \_\_\_ refrigerator |  |  |
| 2.1‑2.8.9.2(4) | \_\_\_ microwave |  |  |
| 2.1‑2.8.9.2(5) | \_\_\_ storage cabinets |  |  |
| 2.1‑2.8.9.2(6) | \_\_\_ space for temporary storage of food service implements |  |  |
| 2.1‑2.8.9.3 | \_\_\_ provisions & space are included for separate temporary storage of unused & soiled meal trays |  |  |
|  |  |  |  |
| 2.2-3.3.8.1(3)  | \_\_\_ Equipment & supply storage |  |  |
| (a)  | \_\_\_ storage space for gurneys supplies & equipment  |  |  |
|  |  |  |  |
| 2.1‑2.8.13.4 | \_\_\_ Emergency equipment storage |  |  |
| (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 |  |  |
|  |  |  |  |
| 2.2-3.3.8.2 | **OTHER OBSERVATION UNIT SUPPORT AREAS** (may be shared with adjacent\* clinical unit) |  |  |
| 2.2-3.3.8.2(1)  | \_\_\_ Nurse or supervisor work space |  |  |
|  |  |  |  |
| 2.2-3.3.8.2(2) | \_\_\_ Medication safety zones |  |  |
| 2.1‑2.8.8.1(2) |  Design Promoting Safe Medication Use: |  |  |
| (a)  | \_\_\_ 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 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  |  |  |
|  |  |  |  |
| 2.1‑2.8.8.2(1)  | \_\_\_ medication preparation room |  |  |
| (a)  | \_\_\_ under visual control of nursing staff | Ventilation:  |  |
| (b) | \_\_\_ work counter | \_\_\_ Min. 4 air changes per hour | Table 7-1 |
|  | \_\_\_ handwashing station | Lighting:  |  |
|  | \_\_\_ lockable refrigerator | \_\_\_ Task lighting | 2.1‑2.8.8.1(2)(d) |
|  | \_\_\_ locked storage for controlled drugs |  |  |
|  | \_\_\_ sharps containers[ ]  check if not included in project  |  |  |
| (c)  | \_\_\_ self‑contained medication‑dispensing unit [ ]  check if not included in project  |  |  |
|  | \_\_\_ room designed with space to prepare medications **or** |  |  |
| 2.1‑2.8.8.2(2)  | \_\_\_ automated medication‑dispensing unit |  |  |
| (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 or hand sanitation dispenser located next to stationary medication-dispensing units or stations |  |  |
| 2.2-3.3.8.2(3) | \_\_\_ Clean workroom or clean supply room |  |  |
| 2.1‑2.8.11.2 | \_\_\_ clean workroom \_\_\_ used for preparing patient care items | Ventilation:\_\_\_ Min. 4 air changes per hour | Table 7-1 |
| (1)  | \_\_\_ work counter | \_\_\_ Positive pressure |  |
| (2)  | \_\_\_ handwashing station |  |  |
| (3)  | \_\_\_ storage facilities for clean & sterile supplies **or** |  |  |
| 2.1‑2.8.11.3 | \_\_\_ clean supply room  | Ventilation:  |  |
|  | \_\_\_ used only for storage & holding as part of system for distribution of clean & sterile supplies | \_\_\_ Min. 4 air changes per hour\_\_\_ Positive pressure | Table 7-1 |
|  |  |  |  |
| 2.2-3.3.8.2(4) | \_\_\_ Soiled workroom or soiled holding room |  |  |
| 2.1‑2.8.12.2 | \_\_\_ soiled workroom | Ventilation:\_\_\_ Min. 10 air changes per hour | Table 7-1 |
| (1)(a)  | \_\_\_ handwashing station | \_\_\_ Exhaust |  |
| (1)(b)  | \_\_\_ flushing‑rim clinical service sink with bedpan‑rinsing device or equivalent flushing‑rim fixture | \_\_\_ Negative pressure\_\_\_ No recirculating room units |  |
| (1)(c)  | \_\_\_ work counter |  |  |
| (1)(d)  | \_\_\_ space for separate covered containers for waste & soiled linen |  |  |
| (2)  | \_\_\_ fluid management system is used[ ]  check if not included in project  |  |  |
| (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 7-1 |
| (1)  | \_\_\_ handwashing station or hand sanitation station | \_\_\_ Exhaust\_\_\_ Negative pressure |  |
| (2)  | \_\_\_ space for separate covered containers for waste & soiled linen | \_\_\_ No recirculating room units |  |
|  |  |  |  |
| 2.2-3.3.8.2(5) | \_\_\_ Environmental services room | Ventilation:\_\_\_ Min. 10 air changes per hour | Table 7-1 |
| 2.1‑2.8.14.1 | \_\_\_ readily accessible\* to unit or floor it serves (permitted to serve more than one patient care unit on floor) | \_\_\_ 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 |  |  |
|  |  |  |  |
| 2.2-3.3.8.2(6) | \_\_\_ Examination room[ ]  check if not included in project (only if all patient care stations are single-patient rooms) |  |  |
| 2.1‑3.2.2.1 | Space Requirements: | Ventilation:  |  |
| (1)  | \_\_\_ min. clear floor area 120 sf \_\_\_ min. clear dimension 10’‑0” | \_\_\_ Min. 6 air changes per hourLighting: | Table 7-1 |
| (2)(a)  | \_\_\_ room size permits room arrangement with min. clearance 3’‑0” at each side & at foot of exam table  | \_\_\_ Portable or fixed exam lightPower:\_\_\_ Min. 8 receptacles in total | 2.1‑8.3.4.3(3) Table 2.1-1 |
| 2.1‑3.2.2.2(2) | \_\_\_ storage for supplies |  |  |
| 2.1‑3.2.2.2(3) | \_\_\_ accommodations for written or electronic documentation | \_\_\_ Min. 4 receptacles convenient to head of gurney or bed |  |
| 2.1‑3.2.2.2(4) | \_\_\_ space for visitor’s chair | Nurse Call System: |  |
| 2.1‑3.2.2.2(5) | \_\_\_ handwashing station | \_\_\_ Emergency call station  | Table 2.1-2 |
|  |  |  |  |
| 2.1‑2.1.2 | Patient Privacy: |  |  |
|  | \_\_\_ Provisions are made to address patient visual & speech privacy |  |  |
|  |  |  |  |
| 2.2-3.3.8.2(7) | \_\_\_ Picture archiving & communications system (PACS) and/or X-ray illuminators \_\_\_ immediately accessible\* to observation unit |  |  |
|  |  |  |  |
| 2.2-3.3.9 | **STAFF SUPPORT AREAS FOR OBSERVATION UNIT** |  |  |
| 2.2-3.3.9.1 | \_\_\_ Staff lounge is readily accessible to the observation unit |  |  |
| 2.1-2.9.1 | \_\_\_ staff lounge at least 100 sf |  |  |
|  |  |  |  |
| 2.2-3.3.9.2 | \_\_\_ Staff toilet room (permitted to be unisex) | Ventilation: |  |
|  | **\_\_\_** min. of one staff toilet room immediately accessible to observation unit | \_\_\_ Min. 10 air changes per hour\_\_\_ Exhaust | Table 7-1 |
| 2.1‑2.9.2.2 | \_\_\_ toilet & handwashing station | \_\_\_ Negative pressure\_\_\_ No recirculating room units |  |

\*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

Architectural Details & MEP Requirements

|  |  |
| --- | --- |
| 2.1‑7.2.2 | **ARCHITECTURAL DETAILS** |
| 2.1‑7.2.2.1 | CORRIDOR WIDTH: |
| NFPA 101, 18.2.3.3 | \_\_\_ 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 |
|  | \_\_\_ Aisles, corridors & ramps in adjunct areas not intended for the housing, 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  |
| (2) | \_\_\_ Min. ceiling height 9'-0" in seclusion rooms & secure holding rooms  |
| (3) | \_\_\_ Min height 7’‑6” above floor of suspended tracks rails & pipes located in traffic path for patients in beds & on stretchers |
|  | \_\_\_ Min ceiling height 7’‑10” in other areas |
|  |  |
| 2.1‑7.2.2.3(1)(a) | DOORS & DOOR HARDWARE:Door Type:\_\_\_ doors between corridors rooms or spaces subject to occupancy swing type or sliding doors |
| (b) | \_\_\_ 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)(a) | Door Opening to Patient Rooms:\_\_\_ min 45.5” clear door width \_\_\_ min 83.5” clear door height  |
| (b) | \_\_\_ swinging doors for personnel use in addition to sliding doors[ ]  check if not included in project\_\_\_ min clear width 34.5”  |
| (3)  |  Door Swing: |
| (a)  | \_\_\_ doors do not swing into corridors except doors in behavioral health units & doors to non‑occupiable spaces (e.g. environmental services rooms & electrical closets) & doors with emergency breakaway hardware |
| (4)  | \_\_\_ Lever hardware or push/pull latch hardware  |
|  |  |
| (5)  |  Doors for Patient Bathing/Toilet Facilities: |
| (a) | \_\_\_ two separate doors**or** |
|  | \_\_\_ door that swings outward **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 |
|  |  |
| (b)  | \_\_\_ bathing area or toilet room opens onto public area or corridor [ ]  check if not included in project  |
|  | \_\_\_ visual privacy is maintained |
| 2.1‑7.2.2.5 | WINDOWS IN PATIENT ROOMS: |
| 2.1‑7.2.2.5(1)  | \_\_\_ Each patient room provided with natural light by means of window to outside |
| 2.1‑7.2.2.5(2)  | \_\_\_ Operable windows in patient rooms or suites [ ]  check if not included in project \_\_\_ window operation is limited with either stop limit/restrictor hardware or open guard/screen\_\_\_ prevents passage of 4‑inch diameter sphere through opening |
| 2.1‑7.2.2.6 | \_\_\_ insect screens |
|  |  |
| 2.1‑7.2.2.5(3)  |  Window Size In Patient Rooms: |
| (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  |
|  |  |
| 2.1‑7.2.2.7 | GLAZING MATERIALS: \_\_\_ Glazing within 1 foot 6 inches of floor[ ]  check if not included in project  |
|  | \_\_\_ must be safety glass wire glass or plastic break‑resistant material |
| 2.1‑7.2.2.8 | 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 not included in project \_\_\_ marine‑grade plywood (or equivalent material) with impervious seal |
| (4)  | \_\_\_ Handwashing station casework [ ]  check if not included in project \_\_\_ designed to prevent storage beneath sink |
| (5)  | \_\_\_ Provisions for drying hands  |
| (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 |
| (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 |
|  |  |
| 2.1‑7.2.2.10 | HANDRAILS: |
| (1)(a) | \_\_\_ Installed on both sides of patient use corridors |
| (1)(b) |  (may be omitted at nurse stations, doors, alcoves & fire extinguisher cabinets) |
| (2) | \_\_\_ Rail ends return to wall or floor |
| (3) | \_\_\_ Handrail gripping surfaces & fasteners are smooth (free of sharp or abrasive elements)  |
| (4) | \_\_\_ Handrails have eased edges & corners |
| (5) | \_\_\_ Handrails have surface light reflectance value that contrasts with that of wall surface by min. 30%  |
| (6) | \_\_\_ Handrail finishes are cleanable & able to withstand disinfection |
| 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 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 | DECORATIVE WATER FEATURES: |
| (1)  | \_\_\_ No indoor unsealed water features |
| (2)  | \_\_\_ Covered fish tanks [ ]  check if not 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 & 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 cleaning solutions |
| (7)(a) |  Floors are monolithic & integral coved wall bases are at least 6” high & tightly sealed to wall in rooms listed below: |
|  | \_\_\_ soiled workroom & soiled holding room |
|  |  |
| 2.1‑7.2.3.2 | WALLS & WALL PROTECTION: |
| (1)(a)  | \_\_\_ Wall finishes are washable |
| (1)(b)  | \_\_\_ Wall finishes near plumbing fixtures are smooth, scrubbable & water‑resistant |
| (2)  | \_\_\_ Wall surfaces in areas routinely subjected to wet spray or splatter (e.g environmental services rooms) are monolithic or have sealed seams that are tight & smooth |
| (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 |
|  |  |
| 2.1‑7.2.4.1 | Built‑In Furnishings:[ ]  check if not 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 levels & glare |
| (2)  | \_\_\_ window treatments do not compromise patient safety \_\_\_ easy for patients visitors & staff to operate |
| (3)  | \_\_\_ 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 not included in project  |

|  |  |
| --- | --- |
| 2.1‑8.2 | **HEATING VENTILATION & AIR‑CONDITIONING (HVAC) SYSTEMS** |
| Part 3/6.1 | UTILITIES: |
| Part 3/6.1.1 |  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 |  Heating & Cooling Sources: |
| Part 3/6.1.2.1 | \_\_\_ heat sources & essential accessories are provided in number & arrangement sufficient to accommodate facility needs (reserve capacity) even when any one of heat sources is not operating \_\_\_ capacity of remaining source or sources is sufficient to provide for domestic hot water & to provide heating for intensive care nursery & inpatient rooms  |
|  |  |
| Part 3/6.1.2.2 |  Central cooling systems greater than 400 tons (1407 kW) peak cooling load [ ]  check if not included in project \_\_\_ number & arrangement of cooling sources & essential accessories is sufficient to support owner’s facility operation plan upon breakdown or routine maintenance of any one of cooling sources |
|  |  |
| 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  |
| . |  |
| Part 3/6.3.1 |  Outdoor Air Intakes: |
| 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 |
|  | \_\_\_ located min of 25 ft from cooling towers & all exhaust & vent discharges \_\_\_ air intakes located away from public access \_\_\_ all intakes designed to prevent entrainment of wind-driven rain \_\_\_ contain features for draining away precipitation \_\_\_ equipped with birdscreen of mesh no smaller than 0.5 inches |
| 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: |
| a. | \_\_\_ Particulate matter filters, min. 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. | \_\_\_ Air supplied from equipment serving multiple or different spaces is filtered in accordance with Table 7-1 |
| d. | \_\_\_ Air recirculated within room is filtered in accordance with Table 7-1 or Section 7.1(a)(5) |
| h. | \_\_\_ 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 |
|  |  |
| Part 3/6.5 | HEATING & COOLING SYSTEMS: |
| Part 3/6.5.3 | \_\_\_ Radiant heating systems [ ]  check if not included in project \_\_\_ ceiling or wall panels with exposed cleanable surfaces or radiant floor heating are provided in AII room PE room & burn unit |
|  |  |
| Part 3/6.7 | AIR DISTRIBUTION SYSTEMS: |
| Part 3/6.7.1 | \_\_\_ pressure relationships required in tables 7.1 maintained 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 are served by fully ducted return or exhaust systems |
| Part 3/6.7.2 |  Air Distribution Devices:  |
|  | \_\_\_ supply air outlets comply with Table 6-2 |
|  |  |
| Part 3/6.7.3 |  Smoke Barriers: \_\_\_ HVAC zones coordinated with compartmentation to minimize ductwork penetrations of fire & smoke barriers. |
|  |  |
| Part 3/6.8 | ENERGY RECOVERY SYSTEMS:[ ]  check if not included in project  |
| Part 3/6.8.1 | \_\_\_ Located upstream of filters required by Part 3/6.8.4  |
| Part 3/6.8.2 | \_\_\_ AII room exhaust systems or combination AII/PE rooms are not used for energy recovery |
| Part 3/7  | SPACE VENTILATION - HOSPITAL SPACES: |
| Part 3/7.1.aPart 3/7.1.a.1 | \_\_\_ Spaces ventilated according to Table 7-1\_\_\_ 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 3/7.1a.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 single space |
|  | \_\_\_ provides min MERV 8 filter located upstream of any cold surface so that all of air passing over cold surface is filtered |
|  |  |

|  |  |
| --- | --- |
| 2.1‑8.3 | **ELECTRICAL SYSTEMS** |
| 2.1‑8.3.2.2 |  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 |
|  |  |
| 2.1‑8.3.4 | **LIGHTING:** |
| 2.1-8.3.4.1  |   |
| (1) | \_\_\_ Luminaires in patient areas shall have smooth, cleanable, impact-resistant lenses concealing light source |
| (2) | \_\_\_ Luminaires dissipate heat such that touchable surfaces will not burn occupants or ignite materials. |
| (2)(a) | \_\_\_ Corridors in patient care units have general illumination with provisions for reducing light levels at night |
| (6) |  Food & nutrition areas: \_\_\_ light sources in kitchen & serving areas are either encapsulated or covered by diffuser or lens or use fixtures designed to contain fragments |
| (7) | \_\_\_ Uplight fixtures installed in patient care areas are covered |
|  |  |
| 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 |
| 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 on essential electrical system 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  |
| **2.1-8.4.2.5** |  **Heated potable water distribution systems:** |
| (2) | \_\_\_ heated potable water distribution systems serving patient care areas are under constant recirculation to provide continuous hot water at each hot water outlet \_\_\_ non-recirculated fixture branch piping does not exceed 10 feet in length |
| (3)(a)(3)(c) | \_\_\_ no installation of dead-end piping (installation of empty risers mains & branches for future use is permitted) |
| (3)(b)  |  Renovations: [ ]  check if not included in project  |
|  | \_\_\_ dead-end piping is removed |
| 2.1‑8.4.2.6 |  Drainage Systems: |
| (1)(a)  | \_\_\_ drainage piping above ceiling of or exposed in rooms listed below piping have special provisions 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)  | \_\_\_ sink basins are made of porcelain stainless steel or solid‑surface materials |
| (5)  | \_\_\_ water discharge point of faucets is at least 10 inches 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 medical/nursing 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 & during loss of normal power |
|  |  |
| 2.1‑8.4.3.3 |  Showers & Tubs: |
| (1)  | \_\_\_ nonslip surfaces |
| (2) |  Surfaces for personal effects (e.g., shampoo, soap): [ ]  check if not included in project  |
|  | \_\_\_ surfaces for personal effects are recessed |
| 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 Sinks:[ ]  check if not included in project  |
| (1) (a) | \_\_\_ trimmed with valves that can are operated without hands (may be single‑lever or wrist blade devices) |
| (b)  | \_\_\_ handles are at least 6 in long |
| (2)  | \_\_\_ 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(1)  | \_\_\_ Nurse call stations provided as required in Table 2.1‑2 |
| 2.1‑8.5.1.1(2)  | \_\_\_ Nurse call systems report to attended location with electronically supervised visual & audible annunciation as indicated in Table 2.1‑2 |
| 2.1‑8.5.1.1(4)  | \_\_\_ Call system complies with UL 1069 “Standard for Hospital Signaling & Nurse Call Equipment” |
| 2.1‑8.5.1.1(5)  | \_\_\_ Wireless nurse call system [ ]  check if not included in project  |
|  | \_\_\_ complies with UL 1069 |
|  |  |
| (3)(b) | \_\_\_ visible & audible signal at the nurse master station of patient care units or patient care areas |
| 2.1‑8.5.1.2(4)  | \_\_\_ Nurse call system provided in each patient care area as required in Table [2.1‑2](http://www.madcad.com/library/230687/664174/#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 bathtub sitz bath or shower stall |
| (1)  | \_\_\_ alarm in these areas can only be turned off at bath station where it was initiated |
| (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 |
| (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  |
| 2.1-8.6.2.1  | \_\_\_ Display screens in patient areas are mounted in tamper-resistant enclosure that is unobtrusive |
| 2.1-8.6.2.2  | \_\_\_ Display screens are located so they are not readily observable by general public or patients |
| 2.1‑8.6.2.3 | \_\_\_ Electronic surveillance systems receive power from essential electrical system |