**COMPLIANCE CHECKLIST**

**IP9\_Nursery Unit**

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

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

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: |  | Patient Care Unit Bed Complements: Current =  Proposed =  |
| Satellite Name: (if applicable) |  | Building/Floor Location: |
| Satellite Address: (if applicable) |  | Submission Dates:  |
| Project Description: |  | Initial Date: Revision Date:  |

|  | **Architectural Requirements** | **Building Systems Requirements** |  |
| --- | --- | --- | --- |
| 2.2-2.10 | **NURSERY UNIT** |  |  |
|  |  |  |  |
| 2.1‑1.2.3 | Shared Services: |  |  |
|  |       No combined functions unless specifically allowed in this checklist |  |  |
|  |  |  |  |
| 2.2-2.10.1.1 |  Location:       all nurseries are located in Obstetrical Unit or immediately accessible\* to NICU |  |  |
|  |  |  |  |
| 2.2-2.10.1.2 |  Layout: |  |  |
| (1)  |       nurseries located & arranged to preclude need for unrelated pedestrian traffic |  |  |
| (2)  |       no nursery opens directly onto another nursery |  |  |
|  |  |  |  |
| 2.2-2.10.1.3 |  Safety & Security: |  |  |
| (1)  |       all nurseries designed to protect physical security of infants, parents & staff & to minimize risk of infant abduction |  |  |
| (2)  |       all entries to nursery are controlled |  |  |
|  |  |  |  |
| 2.2-2.10.2 | **REQUIREMENTS FOR ALL NURSERY TYPES** |  |  |
|  |  |  |  |
| 2.2-2.10.2.2 |  Space Requirements:       enough space provided for parents to stay 24 hours |  |  |
|  |  |  |  |
| 2.2-2.10.2.3 |       Viewing windows [ ]  check if not included in project       means to provide visual privacy |  |  |
|  |  |  |  |
| 2.2-2.10.2.4 |       Handwashing stations       at least one handwashing station for each eight or fewer infant stations |  |  |
|  |  |  |  |
| 2.2-2.10.2.5 |       Storage for linens & infant supplies provided at each nursery room |  |  |
|  |  |  |  |
| 130.624(C)  |       All newborns in the nursery are in direct view of personnel accountable for them  |  |  |
|  |  |  |  |
| 2.2-2.10.3 | **REQUIREMENTS FOR SPECIFIC NURSERY TYPES** |  |  |
|  |  |  |  |
| 2.2-2.10.3.1 |       Newborn nursery (Level I) |  |  |
| (1) (a) |  Capacity:      each newborn nursery room contains no more than 16 infant stations | Ventilation:      Min. 6 air changes per hour      No recirculating room units | Table 7.1 |
| (b)  |       total number of infant care stations determined according to rooming-in program | Power:      Min. 4 receptacles      convenient to each bassinet | Table 2.1-1 |
| (2)  |       min. clear floor area 24 sf per infant care station exclusive of auxiliary work areas | Nurse Call System:      Staff assistance station      Emergency call station  | Table 2.1-2 |
|  |  | Medical Gases:      1 OX, 1 VAC , 1 MA per bassinet | Table 2.1-3 |
| 2.2-2.10.8.5(2) |       workroom or work area      each nursery room served by connecting workroom or work area |  |  |
| 2.2-2.10.8.5(1)  |  |  |  |
| (a)  |       handwashing station & gowning facilities at entrance for staff & families |  |  |
| (b)  |       work counter |  |  |
| (c)  |       refrigerator |  |  |
| (d)  |       storage for supplies |  |  |
|  |  |  |  |
| (3)  |       space required for work area located in nursery is in addition to area required for infant care |  |  |
| (4)  |       provision be made for storage of emergency cart & equipment out of traffic |  |  |
| (5)  |       provision be made for sanitary storage & disposal of soiled waste |  |  |
| (6)  |       visual control be provided via view panels between staff work area & each nursery |  |  |
|  |  |  |  |
| 2.2-2.10.3.2 |       Continuing care nursery (Level IB)[ ]  check if not included in project  |  |  |
|  |  |  |  |
| (1)(b) | Location: |  |  |
|  |       location separate from NICU**or**      continuing care infant care stations located in defined area of NICU |  |  |
|  |  |  |  |
| (2) (a) |  Space Requirements:      min. clear floor area 120 sf per infant care station | Ventilation:      Min. 6 air changes per hour      No recirculating room units | Table 7.1 |
| (b) |       min. clearance 8’-0” between adjacent\* bassinets/infant beds       min. clearance 4’-0” between bassinets/infant beds & walls or other fixed objects       min. clearance 4’-0” between foot of bassinets/infant beds and cubicle curtains | Power:      Min. 5 receptacles      convenient to head of each bed, crib, or bassinet       At least 50% receptacles on emergency power | Table 2.1-1 |
|  |  | Nurse Call System:      Staff assistance station      Emergency call station  | Table 2.1-2 |
|  |  |  |  |
|  |  | Medical Gases:      1 OX, 1 VAC , 1 MA per bassinet | Table 2.1-3 |
| 2.2-2.10.8.5(2) |       workroom or work area      each nursery room served by connecting workroom or work area |  |  |
| 2.2-2.10.8.5(1)  |  |  |  |
| (a)  |       handwashing station & gowning facilities at entrance for staff & families |  |  |
| (b)  |       work counter |  |  |
| (c)  |       refrigerator |  |  |
| (d)  |       storage for supplies |  |  |
|  |  |  |  |
| (3)  |       space required for work area located in nursery is in addition to area required for infant care |  |  |
| (4)  |       provision be made for storage of emergency cart & equipment out of traffic |  |  |
| (5)  |       provision be made for sanitary storage & disposal of soiled waste |  |  |
| (6)  |       visual control be provided via view panels between staff work area & each nursery |  |  |
|  |  |  |  |
| 2.2-2.10.3.2 |       Special care nursery (Level II)[ ]  check if not included in project  |  |  |
| (1)(b) | Location: |  |  |
|  |       location separate from NICU**or**      special care infant care stations located in defined area of NICU |  |  |
|  |  |  |  |
| (2) (a) |  Space Requirements:      min. clear floor area 120 sf per infant care station | Ventilation:      Min. 6 air changes per hour      No recirculating room units | Table 7.1 |
| (b) |       min. clearance 8’-0” between adjacent\* bassinets/infant beds       min. clearance 4’-0” between bassinets/infant beds & walls or other fixed objects       min. clearance 4’-0” between foot of bassinets/infant beds and cubicle curtains | Power:      Min. 5 receptacles      convenient to head of each bed, crib, or bassinet       At least 50% receptacles on emergency power | Table 2.1-1 |
|  |  | Nurse Call System:      Staff assistance station      Emergency call station  | Table 2.1-2 |
|  |  | Medical Gases:      1 OX, 1 VAC , 1 MA per bassinet | Table 2.1-3 |
| 2.2-2.10.8.5(2) |       workroom  |  |  |
| 130.624(D) |       special care nurseries are arranged so that entrance is gained solely through a anteroom/workroom       well-lighted  |  |  |
| 2.2-2.10.8.5(1)  |  |  |  |
| (a)  |       handwashing station & gowning facilities at entrance for staff & families |  |  |
| (b)  |       work counter |  |  |
| (c)  |       refrigerator |  |  |
| (d)  |       storage for supplies |  |  |
| (3)  |       space required for work area located in nursery is in addition to area required for infant care |  |  |
| (4)  |       provision be made for storage of emergency cart & equipment out of traffic |  |  |
| (5)  |       provision be made for sanitary storage & disposal of soiled waste |  |  |
| (6)  |       visual control be provided via view panels between staff work area & each nursery |  |  |
|  |  |  |  |
| 2.2-2.10.4 | **SPECIAL PATIENT CARE ROOMS** |  |  |
| 2.2-2.10.4.2 |       Airborne infection isolation (AII) room provided in or near at least one level of nursery care |  |  |
| (1)  |       room enclosed & separated from nursery unit       provisions for observation of infant from adjacent\* nurseries or control area |  |  |
| (2)  |  |  |  |
| 2.1‑2.4.2.2 |       complies with requirements applicable to patient rooms |  |  |
| (1) |       capacity one bed |  |  |
| (2) |       personal protective equipment (PPE) storage at entrance to room |  |  |
| (3) |       handwashing station |  |  |
|  |  |  |  |
| 2.1‑2.4.2.3 |       Anteroom[ ]  check if not included in project  |  |  |
| (1) |       provides space for persons to don personal protective equipment (PPE) before entering patient room  | Ventilation:      Min. 10 air changes per hour      Exhaust      No recirculating room units | Table 7.1 |
| (2) |       all doors to anteroom have self‑closing devices **or**       audible alarm activated when AII room is in use as isolation room |  |  |
|  |  |  |  |
| (3)(a) |       handwashing station |  |  |
| (3)(b) |       storage for unused PPE |  |  |
| (3)(c) |       disposal/holding container for used PPE |  |  |
| 2.1‑2.4.2.4 |  Architectural Details & Furnishings: |  |  |
| (1)(a) |       perimeter walls ceiling & floor including penetrations constructed to prevent air exfiltration |  |  |
| (1)(b) |       self‑closing devices on all room exit doors **or**      activation of audible alarm when AII room is in use as isolation room |  |  |
|  |  |  |  |
|  |       edge seals provided along sides & top of doorframe for any door into AII room |  |  |
| (2) (a)  |       window treatments do not include fabric drapes & curtains |  |  |
| 2.1‑7.2.3.1(7)(a) |       floors are monolithic & integral coved wall bases are at least 6” high & tightly sealed to wall |  |  |
| 2.1‑2.4.2.5 |       room pressure visual or audible alarm |  |  |
|  |  |  |  |
| 2.2-2.10.8 | **SUPPORT AREAS FOR NURSERIES** |  |  |
| 2.2-2.10.8.3 |       Documentation area |  |  |
| 2.1‑2.8.3.1 |       work surface to support documentation process |  |  |
|  |  |  |  |
| 2.2-2.10.8.8 |       Medication safety zone |  |  |
| 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 for staff to 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  | Nurse Call System:      Duty station (light/sound signal) | Table 2.1-2 |
| (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 located next to stationary medication‑dispensing units or stations | Nurse Call System:      Duty station (light/sound signal) | Table 2.1-2 |
|  |  |  |  |
| 2.2-2.10.8.12(1) | 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 | Nurse Call System:      Duty station (light/sound signal) | Table 2.1-2 |
| (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 |  |
|  |  |  |  |
| 2.2-2.10.8.14 |       Environmental services room       provided in nursery | Ventilation:      Min. 10 air changes per hour | Table 7.1 |
| (1)  |       ES room is not shared with other patient care units or departments |       Exhaust      Negative pressure |  |
| 2.1‑2.8.14.2 |  |       No recirculating room units |  |
| (1)  |       service sink or floor‑mounted mop sink |  |  |
| (2)  |       provisions for storage of supplies & housekeeping equipment |  |  |
| (3)  |       handwashing station **or**       hand sanitation station |  |  |
|  |  |  |  |
| 2.2-2.10.8.15 |       Infant examination area |  |  |
| (1)  |       work counter |  |  |
| (2)  |       storage facilities |  |  |
| (3)  |       handwashing station |  |  |
|  |  |  |  |
| 130.624(E)(3) |       appropriate facilities and necessary equipment for circumcision       readily available to the nursery |  |  |
|  |  |  |  |
| 2.2-2.10.8.16 |       Lactation support space       immediately accessible\* to nursery |  |  |
| 2.2-2.8.8.16 |  |  |  |
| (1)  |       handwashing station       counter |  |  |
|  |  |  |  |

\*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** |
|  |  |
|  | CORRIDOR WIDTH: |
| 2.1‑7.2.2.1NFPA 101, 18.2.3.4 |       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**or**      Detailed code review incorporated in Project Narrative |
|  |  |
| 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(1)(a)(b) | DOORS & DOOR HARDWARE:Door Type:      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)(a) | Door Opening:      min. 45.5” clear door width for patient rooms       min. 83.5” clear door height for patient rooms  |
| (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 to non‑occupiable spaces (e.g. environmental services rooms & electrical closets) & doors with emergency breakaway hardware |
| (4)  |       Lever hardware or push/pull latch hardware  |
|  |  |
| 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 |
| (3)(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 |
|  |  |
| 2.1‑7.2.2.12 | 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, and 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 (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)  |       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 or essential accessories is not operating due to breakdown or routine maintenance       capacity of remaining source or sources is sufficient to provide for domestic hot water & to provide heating for nurseries  |
| 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 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 ft from cooling towers & all exhaust & vent discharges       outdoor air intakes located such that bottom of air intake is at least 6'-0" above grade       air intakes located away from public access  |
|  |  |
| Part 3/6.3.1.3 |       intakes on top of buildings [ ]  check if not included in project       located with bottom of air intake min. 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 3/6.3.2 |  Exhaust Discharges for Infectious Exhaust Air:[ ]  check if not included in project  |
| Part 3/6.3.2.1 |       ductwork within building is under negative pressure for exhaust of contaminated air (i.e. air from AII rooms)  |
|  |       exhaust discharge outlets with contaminated air located such that they reduce potential for recirculation of exhausted air back into building |
| Part 3/6.3.2.2 |       exhaust discharge outlets with contaminated air is arranged to discharge to atmosphere in vertical direction at least 10'-0" above adjoining roof level |
|  |       exhaust discharge outlets from AII rooms is located not less than 25 feet horizontally from outdoor air intakes, openable windows/doors & areas that are normally accessible to public |
|  |  |
| 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 3/6.5 | HEATING & COOLING SYSTEMS: |
| Part 3/6.5.3 |       Radiant heating systems [ ]  check if not included in project       ceiling or wall panels w/ exposed cleanable surfaces or radiant floor heating provided in AII room |
|  |  |
| 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 6.7.2 |
|  |  |
| 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 Filter Bank No. 2  |
| Part 3/6.8.2 |       AII 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  |
|  |  |
| Part 3/7  | SPACE VENTILATION |
| 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 a single space |
|  |       provides min. MERV 6 filter located upstream of any cold surface so that all of air passing over cold surface is filtered |
|  |  |
| Part 3/7.2 | ADDITIONAL ROOM-SPECIFIC REQUIREMENTS: |
| Part 3/7.2.1 | Airborne Infection Isolation (AII) Rooms[ ]  check if not included in project  |
|  |       AII rooms have permanently installed device and/or mechanism to constantly monitor differential air pressure between room & corridor      Local visual means is provided to indicate whenever negative differential pressure is not maintained |
|  |       Air from AII room is exhausted directly to outdoors |
|  |       Exhaust air from AII rooms, associated anterooms & toilet rooms is discharged directly to outdoors without mixing with exhaust air from any other non-AII room or exhaust system |
| Part 3/7.2.1 |       Exhaust air grille or register in patient room is located directly above patient bed on ceiling or on wall near head of bed |
|  |  |
|  |       Anteroom [ ]  check if not included in project       AII room is at negative pressure with respect to anteroom       Anteroom is at negative pressure with respect to corridor |
|  |  |

|  |  |
| --- | --- |
| 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: |
| 2.1‑8.3.4.3(2)  |       Patient care unit corridors have general illumination with provisions for reducing light levels at night |
| 2.1‑8.3.5 | ELECTRICAL EQUIPMENT: |
| 2.1‑8.3.5.1 |       Handwashing sinks & scrub sinks that depends 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       duplex‑grounded receptacles for general use installed within 25’‑0” of corridor ends |
| (2)  |       receptacles in pediatric & psychiatric unit corridors are of tamper‑resistant type |
|  |  |
| 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  |
|  |  |
| 2.1‑8.4.2.5 |  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. length 25’‑0” |
| (3)(a) (3)(c) |       no installation of dead‑end piping (except for empty risers mains & branches for future use) |
| (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 nurseries, electronic data processing areas & electric closets [ ]  check if not included in project  |
|  |       special provisions to protect space below from leakage & condensation |
| (1)(b)  |       drip pan for drainage piping above ceiling of sensitive area [ ]  check if not included in project       accessible       overflow drain outlet located in normally occupied area |
| 2.1‑8.4.3 | PLUMBING FIXTURES: |
| 2.1‑8.4.3.1(1)  |       Materials used for plumbing fixtures are non‑absorptive & acid‑resistant |
|  |  |
| 2.1‑8.4.3.2 |  Handwashing Station Sinks: |
| (1)  |       designed with basins that will reduce risk of splashing to direct patient care & medications areas |
| (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 min. 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:[ ]  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 |
| 2.1‑8.4.3.7 |  Bedpan‑Rinsing Devices: |
| (1)  |       bedpan‑rinsing devices provided in each inpatient toilet room |
| (2)  |       use cold water only |
|  |  |
| 2.1‑8.4.4 | **MEDICAL GAS & VACUUM SYSTEMS**  |
|  |       Station outlets provided as indicated in Table 2.1‑3 |
|  |  |
| 2.1‑8.5.1 | **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 |
| 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 |
| 2.1‑8.5.1.5 |       Emergency call stations are equipped with continuous audible or visual confirmation to person who initiated the code call |
|  |  |

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| --- | --- |
| 2.1‑8.6.2 | **ELECTRONIC SURVEILLANCE SYSTEMS**[ ]  check if not included in project  |
| 2.1‑8.6.2.2 |       monitoring devices 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 |