**COMPLIANCE CHECKLIST**

**IP27\_Pharmacy Services**

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

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

1. NFPA 101 Life Safety Code (2012) & applicable related standards contained in appendices of Code
2. State Building Code (780 CMR)
3. Accreditation requirements of Joint Commission
4. CDC Guidelines for Preventing Transmission of Mycobacterium Tuberculosis in Health Care Facilities
5. USP 797 USP 800 & Regulations of Massachusetts Board of Registration in Pharmacy
6. Occupational Safety & Health Standards (OSHA)
7. Accessibility Guidelines of 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 following instructions & included in plan submissions for Self-Certification Process or Abbreviated Review Process
2. This checklist must be completed by project architect or engineer based on design actually reflected in plans at time of completion of checklist
3. Each requirement line (\_\_\_) of this Checklist must be completed exclusively with one of following marks unless otherwise directed in checklist If functional space is not affected by renovation project mark “E” may be indicated on requirement line (\_\_\_) before name of functional space (associated requirements on indented lines below that name or associated MEP requirements do not have to be completed in this case) If more than one functional space serves given required function (e.g patient room or exam room) that clarification should be provided in Project Narrative & requirement lines are understood to only address functional spaces that are involved in project

|  |  |
| --- | --- |
| **X** = Requirement is met for new space for renovated space or for existing direct support space for expanded service | ⌧ = Check box under section titles or individual requirements lines for optional services or functions that are not included in project area |
| **E** = Requirement relative to existing suite or area that has been *licensed* for its designated function is *not affected* by construction project & *does not pertain to required direct support space* for specific service affected by project “E” must not be used for existing required support space associated with new patient care room or area | **W** = Waiver requested for specific section of Regulations or FGI Guidelines where hardship in meeting requirement can be demonstrated (a Physical Plant Waiver Form must be completed for each waiver request) explicit floor plan or plan detail must be attached to each waiver request |

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

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| --- | --- | --- |
| 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** |  |
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| 2.1‑4.2 | **PHARMACY SERVICES** |  |  |
|  |  |  |  |
| 2.1‑4.2.1.2 | **LOCATION** |  |  |
| (1) | \_\_\_ Pharmacy room or suite accessible to clinical areas of hospital |  |  |
| (2) | \_\_\_ Controlled access to pharmacy room or suite |  |  |
|  |  |  |  |
| 2.1‑4.2.2 | **PHARMACY AREAS** |  |  |
| 2.1‑4.2.2.1 | \_\_\_ Dispensing facilities |  |  |
| (1) | \_\_\_ room or area for receiving unpacking & inventory control of materials used in pharmacy | Ventilation:  \_\_\_ Min 4 air changes per hour  \_\_\_ Positive pressure | Table 7-1 |
| (2) | \_\_\_ work counters & space for automated & manual dispensing activities |  |  |
| (3) | \_\_\_ extemporaneous compounding area  \_\_\_ sink & counter space for drug preparation |  |  |
| (4) | \_\_\_ area for reviewing & recording |  |  |
| (5) | \_\_\_ area for temporary storage exchange & restocking of carts |  |  |
| (6) | \_\_\_ security provisions for drugs & personnel in dispensing counter area |  |  |
|  |  |  |  |
| 2.1‑4.2.2.2 | \_\_\_ Manufacturing facilities |  |  |
| (1)  (2) | \_\_\_ bulk compounding area  \_\_\_ provisions for packaging & labeling | Ventilation:  \_\_\_ Min 4 air changes per hour | Table 7-1 |
| (3) | \_\_\_ quality control area | \_\_\_ Positive pressure |  |
|  |  |  |  |
| 2.1‑4.2.2.3 | \_\_\_ Storage |  |  |
|  | (storage cabinets shelves or separate rooms or closets) |  |  |
| (1) | \_\_\_ bulk storage | Ventilation:  \_\_\_ Min 4 air changes per hour | Table 7-1 |
| (2) | \_\_\_ active storage | \_\_\_ Positive pressure |  |
| (3) | \_\_\_ refrigerated storage |  |  |
| (4) | \_\_\_ storage for volatile fluids & alcohol |  |  |
| (5) | \_\_\_ secured lockable storage for narcotics & controlled drugs |  |  |
| (6) | \_\_\_ equipment & supply storage for general supplies & equipment not in use |  |  |
|  |  |  |  |
| 2.1‑4.2.3 | **STERILE WORK AREAS**  check if not included in project |  |  |
| 2.1‑4.2.3.1 |  |  |  |
| (1) | \_\_\_ Layout of pharmacy precludes unrelated traffic through non‑hazardous drug IV preparation rooms & hazardous drug IV preparation rooms |  |  |
| (2) | \_\_\_ Positive pressure non‑hazardous IV preparation room & negative pressure hazardous drug IV prep room do not share robotic systems |  |  |
| (3) | \_\_\_ Compounding area & equipment comply with requirements of USP & state board of pharmacy requirements  \_\_\_ Project Narrative includes documentation on how these requirements are met |  |  |
| 2.1‑4.2.3.2 | \_\_\_ Non‑hazardous IV preparation area  check if not included in project |  |  |
|  | \_\_\_ laminar‑flow workstation designed for product protection |  |  |
| (1) | \_\_\_ laminar‑flow workstation includes non‑hydroscopic filter rated at 99.97 percent (HEPA filter) |  |  |
| (2) | \_\_\_ laminar‑flow workstation have visible pressure gauge for detection of filter leaks or defects |  |  |
|  | \_\_\_ complies with regulations of Board of Registration in Pharmacy 247 CMR 17.00 |  |  |
| 2.1‑4.2.3.3 | \_\_\_ Hazardous drug IV preparation room  check if not included in project |  |  |
|  | \_\_\_ separate room provided for preparation of hazardous drug IV admixtures under class II (type A2 B1 or B2) or class III biological safety cabinet |  |  |
|  | \_\_\_ complies with regulations of Board of Registration in Pharmacy 247 CMR 19.00 |  |  |
|  |  |  |  |
| 2.1‑4.2.8 | **SUPPORT AREAS FOR PHARMACY** |  |  |
| 2.1‑4.2.8.2 | \_\_\_ Separate room or area provided for office functions |  |  |
| 2.1‑4.2.8.3 | \_\_\_ Room for education & training (may be multipurpose room shared w/ other departments) |  |  |
| 2.1‑4.2.8.4 | \_\_\_ Outpatient medication consultation area  check if not included in project |  |  |
|  | (only if medications are not dispensed to outpatients from hospital pharmacy area) |  |  |
|  |  |  |  |
| 2.1‑4.2.8.7 | Handwashing station |  |  |
| (1) | \_\_\_ Handwashing station is provided in each room where open medication is prepared for administration except where prohibited by USP requirements |  |  |
|  |  |  |  |
| (2) | Sterile compounding room  check if not included in project |  |  |
|  | \_\_\_ handwashing station be provided in anteroom |  |  |
|  |  |  |  |
| 2.1‑4.2.8.13 | \_\_\_ Unit dose procedure used  check if not included in project |  |  |
|  | \_\_\_ additional equipment & supply storage  \_\_\_ space for carts |  |  |
| 2.1‑4.2.9 | **SUPPORT AREAS FOR STAFF** |  |  |
| 2.1‑4.2.9.2 | (may be outside pharmacy area & shared with other departments)  \_\_\_ Readily accessible\* to pharmacy |  |  |
| 2.1‑4.2.9.1 | \_\_\_ Lounge  \_\_\_ Locker facilities |  |  |
|  | \_\_\_ Staff toilet room | Ventilation:  \_\_\_ Min 10 air changes per hour  \_\_\_ Exhaust  \_\_\_ Negative pressure  \_\_\_ No recirculating room units | Table 7-1 |

\*LOCATION TERMINOLOGY:

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

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

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

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

Architectural Details & MEP Requirements

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| 2.1‑7.2.2 | **ARCHITECTURAL DETAILS** |
| 2.1‑7.2.2.1 | CORRIDOR WIDTH: |
|  | \_\_\_ 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 |
|  | \_\_\_ 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 |
| (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 must be safety glass, wire glass or plastic break‑resistant material |
|  |  |
| 2.1‑7.2.2.8 | HANDWASHING STATIONS: |
| (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  check if not included in project  (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 |
| (7) | \_\_\_ no mirror at hand scrub stations or at handwashing stations in food preparation areas & clean & sterile supply areas |
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| 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 |
|  |  |
| 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 |
|  |  |
| (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 not create ledges or crevices |

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| 2.1‑8.2 | **HEATING VENTILATION & AIR‑CONDITIONING (HVAC) SYSTEMS** |
| Part 3/6.1.2 | Heating & Cooling Sources: |
| Part 3/6.1.2.1 | \_\_\_ provide heat sources & essential accessories 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 sterilization & dietary purposes; fuel sufficient to support owner’s facility operation plan upon loss of fuel service is provided on site |
|  |  |
| 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 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  \_\_\_ facilities with moderate-to-high risk of natural or man-made extraordinary incidents locate new air intakes away from public access  \_\_\_ all intakes are designed to prevent entrainment of wind-driven rain  \_\_\_ contain features for draining away precipitation  \_\_\_ equipped with birdscreen of mesh no smaller than 0.5 in |
|  |  |
| 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 ft above grade  \_\_\_ bottom of air intake opening from areaway into building is at least 3 ft above bottom of areaway |
|  |  |
| Part 3/6.3.2 | Exhaust Discharges: |
| Part 3/6.3.2.1 | \_\_\_ ductwork within building is under negative pressure for exhaust of contaminated air (i.e. air from AII rooms bronchoscopy & sputum collection exhaust, pharmacy hazardous-drug exhausted enclosures & laboratory work area chemical fume hoods) |
|  | \_\_\_ 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 additionally is arranged to discharge to atmosphere in vertical direction at least 10 ft above adjoining roof level |
|  |  |
| Part 3/6.4 | FILTRATION: |
| a. | \_\_\_ Particulate matter filters, minimum MERV-8 provided upstream of first heat exchanger surface of any air-conditioning system that combines return air from multiple rooms or introduces outdoor air. |
| b. | \_\_\_ Outdoor air filtered in accordance with Table 7-1 |
| c. | \_\_\_ Air supplied from equipment serving multiple or different spaces is filtered in accordance with Table 7-1 |
| d. | \_\_\_ Air recirculated within room be filtered in accordance with Table 7-1 or Section 7.1(a)(5) |
| e. | \_\_\_ Design includes all necessary provisions to prevent moisture accumulating on filters located downstream of cooling coils & humidifiers |
| 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 |
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| 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 |
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| 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 3/7 | SPACE VENTILATION - HOSPITAL SPACES: |
| Part 3/7.1.a  Part 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 3/7.1.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 8 filter located upstream of any cold surface so that all of air passing over cold surface is filtered |

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| 2.1‑8.3 | **ELECTRICAL SYSTEMS** |
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| 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 & scrub sinks that depends on building electrical service for operation are connected to essential electrical system |
| 2.1‑8.3.5.2 | \_\_\_ Electronic health record system servers & centralized storage provided with uninterruptible power supply |
|  |  |
| 2.1‑8.3.6 | **ELECTRICAL RECEPTACLES** |
| 2.1‑8.3.6.1 | Receptacles In Corridors: |
| (1) | \_\_\_ duplex‑grounded receptacles for general use installed 50’‑0” apart or less in all corridors  \_\_\_ duplex‑grounded receptacles for general use installed within 25’‑0” of corridor ends |
|  |  |
| 2.1‑8.3.6.3 | Essential Electrical System Receptacles: |
| (1) | \_\_\_ cover plates for electrical receptacles supplied from essential electrical system are distinctively colored or marked for identification |
| (2) | \_\_\_ same color is used throughout facility |
|  |  |
| 2.1‑8.4 | **PLUMBING SYSTEMS** |
| 2.1‑8.4.2 | Plumbing & Other Piping Systems: |
| 2.1‑8.4.2.1(3) | \_\_\_ no plumbing piping exposed overhead or on walls where possible accumulation of dust or soil may create cleaning problem  \_\_\_ no plumbing piping exposed overhead or on walls where leaks would create potential for food contamination |
| 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 does not exceed 25’‑0” in length |
| (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 rooms listed below piping have special provisions (e.g. double wall containment piping or oversized drip pans) to protect space below from leakage & condensation |
|  | * operating rooms * delivery rooms * procedure rooms * trauma rooms * nurseries * central kitchens * one-room sterile processing facilities * clean workroom of two-room sterile processing facilities * pharmacies * Class 2 & 3 imaging rooms * electronic mainframe rooms (EFs & TERs) * main switchgear * electrical rooms * electronic data processing areas * electric closets |
| (1)(b) | \_\_\_ drip pan for drainage piping above ceiling of sensitive area  check if not included in project  \_\_\_ accessible  \_\_\_ overflow drain with outlet located in normally occupied area that is not open to restricted area |
|  |  |
| 2.1‑8.4.3 | **PLUMBING FIXTURES** |
| 2.1‑8.4.3.1(1) | \_\_\_ Materials used for plumbing fixtures are non‑absorptive & acid‑resistant |
|  |  |
| 2.1‑8.4.3.2 | Handwashing Station Sinks: |
| (1) | \_\_\_ designed with basins & faucets that reduce risk of splashing to areas where direct patient care is provided, sterile procedures are performed, medications are prepared or food is prepared |
| (2) | \_\_\_ sink basins have nominal size of no less than 144 square inches  \_\_\_ sink basins have min. dimension 9 inches in width or length |
| (3) | \_\_\_ 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 & food handlers 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 |
|  |  |
| 2.1‑8.6.2 | **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 |
|  |  |