### **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:

- NFPA 101 Life Safety Code (2012) & applicable related standards contained in appendices of Code
- State Building Code (780 CMR)
- Accreditation requirements of Joint Commission
- CDC Guidelines for Preventing Transmission of Mycobacterium Tuberculosis in Health Care Facilities
- USP 797 USP 800 & Regulations of Massachusetts Board of Registration in Pharmacy
- Occupational Safety & Health Standards (OSHA)
- Accessibility Guidelines of Americans with Disabilities Act (ADA)
- Architectural Access Board Regulations (521 CMR)
- Local Authorities having jurisdiction

Instructions:

- 1. All requirement lines must be completed according to following instructions & included in plan submissions for Self-Certification Process or Abbreviated Review Process
- 2. This checklist must be completed by project architect or engineer based on design actually reflected in plans at time of completion of checklist
- 3. Each requirement line (\_\_\_\_) of this Checklist must be completed exclusively with one of following marks unless otherwise directed in checklist If functional space is not affected by renovation project mark "E" may be indicated on requirement line (\_\_\_\_) before name of functional space (associated requirements on indented lines below that name or associated MEP requirements do not have to be completed in this case) If more than one functional space serves given required function (e.g patient room or exam room) that clarification should be provided in Project Narrative & requirement lines are understood to only address functional spaces that are involved in project
- **X** = Requirement is met for new space for renovated space or for existing direct support space for expanded service
- 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
- EX = Check box under section titles or individual requirements lines for optional services or functions that are not included in project area
- W = Waiver requested for specific section of Regulations or FGI Guidelines where hardship in meeting requirement can be demonstrated (a Physical Plant Waiver Form must be completed for each waiver request) explicit floor plan or plan detail must be attached to each waiver request
- 4. All room functions marked with "X" must be shown on plans with same name labels as in this checklist
- 5. Mechanical electrical & plumbing requirements are only partially mentioned in this checklist relevant section of FGI Guidelines must be used for project compliance with all MEP requirements & for waiver references
- 6. Oxygen vacuum medical air waste anesthesia gas disposal & instrument air outlets (if required) are identified respectively by abbreviations "OX" "VAC" "MA" "WAGD" & "IA"
- 7. Requirements referenced with "FI" result from formal interpretations from FGI Interpretations Task Group
- 8. The location requirements including asterisks (\*) refer to definitions of Glossary in beginning section of FGI Guidelines & reproduced in this checklist

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

	Architectural Requirements	Building Systems Requirements
2.1-4.2	PHARMACY SERVICES	
2.1-4.2.1.2 (1) (2)	LOCATION Pharmacy room or suite accessible to clinical areas of hospital Controlled access to pharmacy room or suite	
2.1-4.2.2 2.1-4.2.2.1 (1)	PHARMACY AREAS Dispensing facilities room or area for receiving unpacking & inventory control of materials used in pharmacy work counters & space for automated	Ventilation: Min 4 air changes per hour Table 7-1 Positive pressure
(3)	<ul> <li>&amp; manual dispensing activities</li> <li>extemporaneous compounding area</li> <li> sink &amp; counter space for drug</li> <li>preparation</li> </ul>	
(4) (5)	<ul> <li>area for reviewing &amp; recording</li> <li>area for temporary storage exchange &amp; restocking of carts</li> </ul>	
(6)	security provisions for drugs & personnel in dispensing counter area	
2.1-4.2.2.2 (1) (2) (3)	Manufacturing facilities         bulk compounding area         provisions for packaging & labeling         quality control area	Ventilation: Min 4 air changes per hour Table 7-1 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) (3) (4) (5) (6)	<ul> <li>active storage</li> <li>refrigerated storage</li> <li>storage for volatile fluids &amp; alcohol</li> <li>secured lockable storage for narcotics</li> <li>&amp; controlled drugs</li> <li>equipment &amp; supply storage for general</li> <li>supplies &amp; equipment not in use</li> </ul>	Positive pressure
2.1-4.2.3	STERILE WORK AREAS	
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	

	Architectural Requirements	Building Systems Requirements
(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 <u>not</u> 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	
2.1-4.2.3.3	Registration in Pharmacy 247 CMR 17.00 Hazardous drug IV preparation room check if <u>not</u> 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 Cutpatient medication consultation area Cutpatients from hospital pharmacy area)	
2.1-4.2.8.7 (1)	Handwashing station 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 <u>not</u> included in project handwashing station be provided in anteroom	
2.1-4.2.8.13	<ul> <li>Unit dose procedure used</li> <li>□ check if <u>not</u> included in project</li> <li> additional equipment &amp; supply storage</li> <li> space for carts</li> </ul>	

### Architectural Requirements

### 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 Table 7-1
- \_\_\_\_ Exhaust
- \_\_\_\_ Negative pressure

No recirculating room units

**Building Systems Requirements** 

## \*LOCATION TERMINOLOGY:

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

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

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

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

## Architectural Details & MEP Requirements

2.1-7.2.2	ARCHITECTURAL DETAILS	2
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
2.1-7.2.2.2 (1)	CEILING HEIGHT: <u>Min. ceiling height 7'-6" in corridors</u> & in normally unoccupied spaces <u>Min. ceiling height 7'-10" in other areas</u>	
2.1-7.2.2.3 (1) (a)	DOORS & DOOR HARDWARE: Door Type: doors between corridors, rooms, or spaces subject to occupancy	
(b)	swing type or sliding doors sliding doors □ check if <u>not</u> included in project manual or automatic	(
	sliding doors comply with NFPA 101 detailed code review incorporated in Project Narrative no floor tracks	
(3) (a)	Door Swing: 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 (3)	HANDWASHING STATIONS:
(a)	Handwashing station countertops made of porcelain, stainless steel, solid-surface materials or impervious plastic laminate assembly
(b)	Countertops substrate ☐ check if <u>not</u> included in project marine-grade plywood (or equivalent material) with
(4)	impervious seal Handwashing station casework □ check if <u>not</u> included in project designed to prevent storage beneath sink
(5)	Provisions for drying hands □ check if <u>not</u> included in project
(a)	(only at hand scrub facilities) 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) (7)	<ul> <li>liquid or foam soap dispensers</li> <li>no mirror at hand scrub stations</li> <li>or at handwashing stations in</li> <li>food preparation areas &amp; clean</li> <li>&amp; sterile supply areas</li> </ul>

2.1-7.2.3 2.1-7.2.3.1 (1) (3)	SURFACES FLOORING & WALL BASES: Flooring surfaces cleanable & wear-resistant for location Smooth transitions provided between different flooring materials	Part 3/6.2 Part 3/6.2.1	AIR-HANDLING UNIT (AHU) DESIGN: AHU casing is designed to prevent water intrusion, resist corrosion & permit access for inspection & maintenance
(4)	Flooring surfaces including those on stairways are stable, firm & slip-resistant	Part 3/6.3 Part 3/6.3.1 Part 3/6.3.1.1	OUTDOOR AIR INTAKES & EXHAUST DISCHARGES: Outdoor Air Intakes: located such that shortest
2.1-7.2.3.2 (1)(a) (1)(b)	WALLS & WALL PROTECTION: Wall finishes are washable Wall finishes near plumbing fixtures are smooth, scrubbable & water-resistant		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
(5)	Wall protection devices & corner guards durable & scrubbable		cooling towers & all exhaust & vent discharges facilities with moderate-to-high
2.1-7.2.3.3 (1)	CEILINGS: Ceilings provided in all areas except mechanical, electrical &		risk of natural or man-made extraordinary incidents locate new air intakes away from
(a)	communications equipment rooms Ceilings cleanable with routine housekeeping equipment		public access all intakes are designed to prevent entrainment of wind-
(b)	Acoustic & lay-in ceilings where used not create ledges or crevices		driven rain contain features for draining away precipitation
2.1-8.2	HEATING VENTILATION & AIR-CONDITIONING (HVAC) SYSTEMS		equipped with birdscreen of mesh no smaller than 0.5 in
Part 3/6.1.2 Part 3/6.1.2.1	Heating & Cooling Sources: 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	Part 3/6.3.1.4 Part 3/6.3.2	<ul> <li> intake in areaway</li> <li>□ check if <u>not</u> included in project</li> <li> bottom of areaway air</li> <li>intake opening is at least</li> <li>6 ft above grade</li> <li> bottom of air intake</li> <li>opening from areaway into building is at least 3 ft</li> <li>above bottom of areaway</li> </ul>
	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 3/6.3.2.1	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
Part 3/6.1.2.2	Central cooling systems greater than 400 tons (1407 kW) peak cooling load □ check if <u>not</u> 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.		<ul> <li>enclosures &amp; laboratory work area chemical fume hoods)</li> <li>exhaust discharge outlets with contaminated air located such that they reduce potential for recirculation of exhausted air back into building</li> </ul>

Part 3/6.3.2.2	exhaust discharge outlets with contaminated air additionally is	Part 3/7 Part 3/7.1.a	SPACE VENTILATION - HOSPITAL SPACES: Spaces ventilated according to Table 7-1
	arranged to discharge to		Air movement is from clean to less-
	atmosphere in vertical direction	Part 3/7.1.a.1	clean areas
	at least 10 ft above adjoining	Part 3/7.1.a.3	Min. number of total air changes
	roof level		required for positive pressure rooms
			is provided by total supply airflow
Part 3/6.4	FILTRATION:		Min. number of total air changes
a.	Particulate matter filters, minimum		required for negative pressure rooms
	MERV-8 provided upstream of first		is provided by total exhaust airflow
	heat exchanger surface of any air-	Part 3/7.1.a.4	Entire minimum outdoor air changes
	conditioning system that combines	r art o/r main	per hour required by Table 7-1 for
	return air from multiple rooms or		each space meet filtration
	introduces outdoor air.		requirements of Section 6.4
h			requirements of Section 0.4
b.	Outdoor air filtered in accordance		
	with Table 7-1	Part 3/7.1a.5	Air recirculation through room unit
C.	Air supplied from equipment serving		check if <u>not</u> included in project
	multiple or different spaces is		complies with Table 7-1
	filtered in accordance with Table 7-1		room unit receive filtered &
d.	Air recirculated within room be		conditioned outdoor air
	filtered in accordance with Table 7-1		serve only a single space
	or Section 7.1(a)(5)		provides min MERV 8 filter
e.	Design includes all necessary		located upstream of any cold
•	provisions to prevent moisture		surface so that all of air passing
	accumulating on filters located		
	downstream of cooling coils &		over cold surface is filtered
	humidifiers		
<b>b</b>		2.1-8.3	ELECTRICAL SYSTEMS
h.	For spaces that do not permit air		
	recirculated by means of room units	2.1-8.3.2	ELECTRICAL DISTRIBUTION &
	& have minimum filter efficiency of		TRANSMISSION
	MERV-14, MERV-16 or HEPA in	2.1-8.3.2.2	Panelboards:
	accordance with Table 7-1, the min.	(1)	panelboards serving life safety
	filter requirement listed in Table 7-1		branch circuits serve floors on
	is installed downstream of all wet-air		which they are located & floors
	cooling coils & supply fan		immediately above & below
		(2)	panelboard critical branch
Part 3/6.7	AIR DISTRIBUTION SYSTEMS:	(-)	circuits serve floors on which
Part 3/6.7.1	Maintain pressure relationships		they are located
	required in tables 7.1 in all modes of	(3)	panelboards not located in exit
	HVAC system operation	(3)	enclosures or exit passageways
	Spaces that have required pressure		enclosures of exit passageways
	relationships are served by fully	04000	
	ducted return systems or fully	2.1-8.3.3	POWER-GENERATING & -STORING
			EQUIPMENT
	ducted exhaust systems	2.1-8.3.3.1	Essential electrical system or
D (0/070			emergency electrical power
Part 3/6.7.2	Air Distribution Devices:	(1)	essential electrical system
	supply air outlets comply		complies with NFPA 99
	with Table 6-2	(2)	emergency electrical power
			complies with NFPA 99
Part 3/6.7.3	Smoke Barriers:		
	HVAC zones coordinated with	2.1-8.3.5	ELECTRICAL EQUIPMENT
	compartmentation to minimize	2.1-8.3.5.1	Handwashing sinks & scrub sinks
	ductwork penetrations of fire &		that depends on building electrical
	smoke barriers.		service for operation are connected
			to essential electrical system
Part 3/6.8	ENERGY RECOVERY SYSTEMS:	2.1-8.3.5.2	Electronic health record system
	$\Box$ check if <u>not</u> included in project	2.1-0.3.3.2	servers & centralized storage provided
Dart 2/6 0 1			
Part 3/6.8.1	Located upstream of filters required by Dott 2/6 8 4		with uninterruptible power supply
	by Part 3/6.8.4	I	

2.1-8.3.6 2.1-8.3.6.1 (1)	ELECTRICAL RECEPTACLES Receptacles In Corridors: 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
(1)	Receptacles: 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 2.1-8.4.2.1(3)	Plumbing & Other Piping Systems: 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
2.1-8.4.2.5	food contamination Heated Potable Water Distribution
(2)	Systems: 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)	no installation of dead-end piping (except for empty risers mains &
(3)(c) (3)(b)	branches for future use) any existing dead-end piping is removed
(4)(a)	<ul> <li>check if <u>not</u> included in project</li> <li>water-heating system supplies</li> <li>water at temperatures &amp;</li> <li>amounts indicated in Table 2.1-4</li> </ul>
2.1-8.4.2.6 (1)(a)	Drainage Systems: 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

•

•

(1)(b)	<ul> <li>one-room sterile processing facilities</li> <li>clean workroom of two-room sterile processing facilities</li> <li>pharmacies</li> <li>Class 2 &amp; 3 imaging rooms</li> <li>electronic mainframe rooms (EFs &amp; TERs)</li> <li>main switchgear</li> <li>electrical rooms</li> <li>electronic data processing areas</li> <li>electric closets</li> <li>drip pan for drainage piping above ceiling of sensitive area</li> <li>check if <u>not</u> included in project</li> <li>accessible</li> <li>overflow drain with outlet located in normally occupied area that is not open to restricted area</li> </ul>
2.1-8.4.3 2.1-8.4.3.1(1)	PLUMBING FIXTURES Materials used for plumbing fixtures are non-absorptive & acid-resistant
2.1-8.4.3.2 (1)	Handwashing Station Sinks: designed with basins & faucets that reduce risk of splashing to areas where direct patient care is provided, sterile procedures are performed, medications are
(2)	prepared or food is prepared sink basins have nominal size of no less than 144 square inches sink basins have min. dimension 9 inches in width or length
(2) (3)	prepared or food is prepared sink basins have nominal size of no less than 144 square inches sink basins have min. dimension 9 inches in width or length sink basins are made of porcelain, stainless steel or
	prepared or food is prepared sink basins have nominal size of no less than 144 square inches sink basins have min. dimension 9 inches in width or length sink basins are made of porcelain, stainless steel or solid-surface materials water discharge point of faucets is at least 10 inches
(3)	prepared or food is prepared sink basins have nominal size of no less than 144 square inches sink basins have min. dimension 9 inches in width or length sink basins are made of porcelain, stainless steel or solid-surface materials water discharge point of

(a)	blade handles
(b)	<ul> <li>check if <u>not</u> included in project</li> <li>at least 4 inches in length</li> <li>provide clearance required</li> <li>for operation</li> <li>sensor-regulated water fixtures</li> <li>check if <u>not</u> included in project</li> <li>meet user need for</li> <li>temperature &amp; length of</li> <li>time water flows</li> <li>designed to function at all</li> <li>times and during loss of</li> </ul>
	normal power
2.1-8.6.2	normal power ELECTRONIC SURVEILLANCE SYSTEMS
2.1-8.6.2 2.1-8.6.2.1	ELECTRONIC SURVEILLANCE SYSTEMS check if <u>not</u> included in project Display screens in patient areas are mounted in tamper-resistant
	ELECTRONIC SURVEILLANCE SYSTEMS check if <u>not</u> included in project Display screens in patient areas are