COMPLIANCE CHECKLIST

IP14_Surgical Services

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

Other jurisdictions, regulations and codes may have additional requirements which are not included in this checklist, such as:
- State Building Code (780 CMR)
- Accreditation requirements of The Joint Commission
- CDC Guidelines for Preventing the Transmission of Mycobacterium Tuberculosis in Health Care Facilities
- USP 797 & Regulations of the Massachusetts Board of Registration in Pharmacy
- Occupational Safety & Health Standards (OSHA)
- Accessibility Guidelines of the Americans with Disabilities Act (ADA)
- Architectural Access Board Regulations (521 CMR)
- Local Authorities having jurisdiction.

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

X = Requirement is met, for new space, for renovated space, or for existing direct support space for an expanded service.

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

W = Waiver requested for specific section of the Regulations or FGI Guidelines, where hardship in meeting requirement can be demonstrated (a Physical Plant Waiver Form must be completed for each waiver request). An explicit floor plan or plan detail must be attached to each waiver request.

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

Facility Name: ____________________________
Facility Address: ____________________________
Satellite Name: (if applicable) ________________
Satellite Address: (if applicable) ________________
Project Description: ____________________________

DoN Project Number: (if applicable) ________________
Building/Floor Location: ____________________________
Submission Dates: ____________________________
Initial Date: ____________________________
Revision Date: ____________________________

MDPH/DHCFLC 12/18 IP14
### Architectural Requirements

#### Surgical Services

**2.2-3.3 Location & Layout:**

| (4) | surgery department divided into unrestricted areas, semi-restricted areas & restricted areas |
| (1) | semi-restricted & restricted areas of surgery department located & arranged to prevent unrelated traffic |
| (2) | clinical practice setting designed to facilitate movement of patients & personnel into through & out of defined areas in surgery department |
| (3) | signs that clearly indicate need for surgical attire shown on plans at all entrances to semi-restricted areas |

#### Procedure Rooms

2.2-3.3.2 | ☐ check if not included in project

**2.2-3.3.2.1 Application:**

| (a) | room designated for the performance of patient care that requires high-level disinfection or sterile instruments & some environmental controls but not required to be performed with the environmental controls of an operating room |
| | hospital has completed clinical assessment of procedures to be performed to determine appropriate room type & location for procedures & documented this in functional program included in Project Narrative |

**2.2-3.3.2.2 Location:**

| (a) | procedure room meet requirements of semi-restricted area |
| (b) | procedure room accessed from semi-restricted corridor or from unrestricted corridor |

#### Space Requirements:

| (1)(a) | min. clear floor area 130 sf |
| (1)(b) | anesthesia machine & associated supply carts are used |
| | ☐ check if not included in project |
| | min. clear floor area 160 sf |
| (1)(c) | procedure room sized to accommodate personnel & equipment needed for particular procedures, |
| | procedure room sized to accommodate additional personnel & equipment that may be needed for emergency rescue |
| | min. clearance 3'-6" on each side of table, gurney or procedural chair |
| | min. clearance 3'-0" at head & foot of table, gurney or procedural chair |

### Building Systems Requirements

| Ventilation: | Min. 15 air changes per hour | Table 7.1 |
| | Positive pressure | No recirculating room units |
| Power: | Min. 12 receptacles in total | Table 2.1-1 |
| | Min. 8 receptacles convenient to table placement with at least one on each wall |
| Nurse Call System: | Staff assistance station | Table 2.1-2 |
| | Emergency call station |
| Medical Gases: | 1 OX, 2 VAC, 1 MA | Table 2.1-3 |
(2)(b) an anesthesia machine & associated supply carts are used
  min. clearance 6'-0" at head of table, gurney or procedural chair

2.2-3.3.2.3 Documentation area
(1) accommodations for written and/or electronic documentation provided in procedure room
2.1-2.8.3.1 work surface to support documentation process
2.2-3.3.2.3(2) use of documentation area allows for direct observation of patient
2.2-3.3.2.4 Provisions made for patient privacy

2.2-3.3.2.5 Handwashing Facilities:
(1) handwashing station located in procedure room
  or
(2) hand scrub station directly accessible to procedure room

2.2-3.3.3 OPERATING ROOMS
2.2-3.3.3.1(1) Application: Rooms designated for invasive procedures as defined in Glossary
  procedures performed in aseptic surgical field & penetrates protective surfaces of patient body, may require entry into or opening of sterile body cavity, or involve insertion of indwelling foreign body, or include excision & grafting of burns
  procedures that do not begin as invasive procedures but have recognized measurable risks of requiring conversion to invasive procedures
(2) Operating room meets requirements of restricted area

2.2-3.3.3.2 General Operating Room
Space Requirements:
  (may include minor wall encroachments max. 12" deep by max. 10% of wall length)
(1)(a) min. clear floor area 400 sf
(1)(b) min. clearance 8'-6" on each side of operating table
  min. clearance 6'-0" at head of operating table
  anesthesia work zone with clear floor area 6'-0" x 8'-0"
  min. clearance 7'-0" at foot of operating table

Ventilation:
  Min. 20 air changes per hour Table 7.1
  Positive pressure
  No recirculating room units

Lighting:
  General lighting in addition to special lighting units provided at surgical table 2.1-8.3.4.3(4) (a)

Power:
  Min. 36 receptacles in total Table 2.1-1
  Min. 16 receptacles convenient to table placement
  Min. 2 on each wall

Nurse Call System:
  Staff assistance station Table 2.1-2
  Emergency call station

Medical Gases:
  2 OX, 5 VAC, 1 MA, 1 WAGD + Errata
2.2-3.3.3.3 Documentation area
(1) accommodations for written and/or
electronic documentation
(2) use of documentation area allows for
direct observation of patient

2.2-3.3.4 Medical image viewers (e.g. X-ray film or digital)

2.2-3.3.5(3) Communications System:
(a) all operating rooms are equipped with
emergency communication system that
incorporates push activation of
emergency call switch
(b) each operating room have system for
emergency communication with surgery
department control station

(2) Operating room for image-guided surgery

Space Requirements: Ventilation:
(min may include minor wall encroachments
of max. 12” deep by max. 10% of wall
length)
uses portable imaging equipment
or surgical procedures that require
additional personnel and/or large
equipment

(at) sized to accommodate personnel
& equipment planned to be in
room during procedures

New Construction & Major
Renovations:
(min. clear floor area 600 sf
min. clear dimension 20’-0”
or

(b) Limited Renovations:
(min. clear floor area 500 sf
min. clear dimension 20’-0”

2.2-3.3.3 Documentation area
(1) accommodations for written and/or
electronic documentation
(2) use of documentation area allows for
direct observation of patient

2.2-3.3.4 Medical image viewers (e.g. X-ray film or digital)

2.2-3.3.5(3) Communications System:
(a) all operating rooms are equipped with
emergency communication system that
incorporates push activation of
emergency call switch

Ventilation:
(min 20 air changes per hour
Positive pressure
No recirculating room units

Lighting:
General lighting in addition to
special lighting units provided
at surgical table

Power:
Min. 36 receptacles in total
Min. 16 receptacles
convenient to table placement
Min. 2 on each wall

Nurse Call System:
Staff assistance station
Emergency call station

Medical Gases:
O2, VAC, MA, WAGD
+ Errata
Architectural Requirements

2.2-3.3.3.6  ____ Equipment storage rooms for open-heart or complex orthopedic & neurosurgical surgery ____ provided in semi-restricted area

2.2-3.3.4  **HYBRID OPERATING ROOM**

2.2-3.3.4.1  Application:

___ hybrid operating rooms (Class 3 imaging rooms)

2.2-3.4.2  Space Requirements:

(1)  ____ clear floor area, clearance & storage requirements for imaging equipment contained in room

(2)  ____ any mobile storage units do not encroach on required clear floor area & clearances

2.2-3.4.2.2  __ imaging rooms are sized & configured to comply with manufacturer’s recommendations for installation service & maintenance

___ installation plans from manufacturer have been submitted to DPH Plan Review

2.2-3.3.3  ____ Documentation area

(1)  ____ accommodations for written and/or electronic documentation

(2)  ____ use of documentation area allows for direct observation of patient

2.2-3.3.4  ____ Medical image viewers (e.g. X-ray film or digital)

2.2-3.3.5(3)  Communications System:

(a)  ____ all operating rooms are equipped with emergency communication system that incorporates push activation of emergency call switch

(b)  ____ each operating room have system for emergency communication with surgery department control station

2.2-3.3.4.3  ____ Control room

(1)  ____ sized & configured in compliance with manufacturer recommendations for installation service & maintenance
Architectural Requirements

(2)  □ control room physically separated from hybrid operating room with walls & door
    or
    □ open control area serves only one operating room & is built, maintained & controlled same as operating room

(4)  □ view panels that provide for view of patient & surgical team

2.2-3.3.4.4 Structural Support:
    □ floor & ceiling structures (if applicable)
      designed to support weight of imaging equipment as well as other fixed ancillary equipment (e.g. lights service columns) & movable ancillary equipment

2.2-3.3.4.5 □ Hybrid operating room protected from disruptive environmental vibrations & other disturbances in accordance with imaging equipment manufacturer’s technical specifications

2.2-3.3.4.6 □ System component room
2.2-3.4.2.5(1) Location:
    (a) □ accessed only from unrestricted or semi-restricted space outside imaging room
2.2-3.4.2.5(2) Space Requirements:
    □ room sized to accommodate following as indicated by imaging equipment manufacturer
    (a) □ transformers
    (b) □ power distribution equipment
    (c) □ power conditioning/UPS equipment
    (d) □ computers
    (e) □ associated electronics & electrical gear

2.2-3.3.4.7 Radiation Protection:
2.2-3.4.1.3 □ check if not included in project (only if imaging equipment does not emit ionizing radiations)
    □ certified radiation physicist has specified type, location & amount of radiation protection
    □ specifications of radiation shielding have been submitted to DPH Radiation Control Program

2.2-3.3.4.8 Specific requirements for hybrid operating rooms with intraoperative computerized tomography (CT) systems:
    □ check if not included in project
## Architectural Requirements

**2.2-3.4.1.3(1)** Shielded control room  
(a) Space Requirements:  
____ sized & configured according to manufacturer recommendations  
(c) ____ shielded view window  
____ designed to provide full view of patient at all times (use of additional closed-circuit video monitoring permitted)  
(d) ____ control room enclosed with walls & door

## Building Systems Requirements

**2.2-3.3.4.8(2)** Specific Requirements for Hybrid Operating Rooms with Intraoperative MRI Systems:  

**2.2-3.4.5.1 (1)** Planning Configuration of MRI Suite:  
____ conforms to 4-zone screening & access control protocols identified by American College of Radiology  
____ Zone I: all areas that are freely accessible to the general public  
____ Zone II: interface between the publicly accessible uncontrolled Zone I & strictly controlled Zone III (space for screening questions, patient histories, medical insurance questions)  
____ Zone III: no free access by unscreened persons or non-MRI personnel due to interactions between persons or equipment & MRI scanner  
____ Zone IV: MRI scanner room where access must be supervised by MRI personnel  

(2) ____ MRI suite as well as spaces around, above & below designed to prevent unscreened individuals from entering 5-gauss volume around MRI equipment

(3) Specific Support Areas for MRI Suite:  
(a) ____ space for patient interviews & clinical screening  
(b) ____ space for physical screening  
(c) ____ ferromagnetic (only) detection & warning systems  
(d) ____ access controls  
(e) ____ space to accommodate site-specific clinical & operational requirements such as image-guided procedures emergent imaging or general anesthesia support  
☐ check if not included in project
<table>
<thead>
<tr>
<th>Architectural Requirements</th>
<th>Building Systems Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>(f) space for containment of non-MRI-safe objects outside restricted MRI safety zones</td>
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<tr>
<td>(g) space for storage (patient lockers) of patient belongings &amp; non-MRI-safe items</td>
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<tr>
<td>(4) any area in which magnetic field strength is equal to or greater than 5 gauss is physically restricted by use of key locks or pass-key locking systems</td>
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</tbody>
</table>

2.2-3.4.5.4 ___ MRI control room

(1) ___ operator console positioned so operator has full view of principal approach & entrance to MRI scanner room

(2) ___ outward-swinging door
   ☐ check if not included in project
   ___ door in open position does not obstruct view of entry opening from operator’s console

2.2-3.4.1.3(1) Space Requirements:

(a) ___ sized & configured according to manufacturer’s recommendations

2.2-3.4.1.3(1) ___ shielded view window designed to provide full view of examination/procedure table & patient at all times including full view of patient during imaging activities (use of additional closed-circuit video monitoring permitted)

2.2-3.4.1.3(1) ___ control room enclosed with walls & door

2.2-3.4.5.9 Special Design Elements for MRI Scanner Room:

(1)(a) ___ ferromagnetic materials that may become detached or otherwise interfere with operation of MRI scanner are not used in MRI scanner rooms

(1)(b) ___ MRI scanner room be located and/or shielded to avoid electromagnetic interference from elevators or other electromagnetic equipment

(2)(a) ___ floor structure designed to support weight of MRI scanner equipment minimize disturbance to MRI magnetic field & mitigate disruptive environmental vibrations

(2)(b) ___ MRI rooms be marked with lighted sign with red light to indicate that magnet is always on
<table>
<thead>
<tr>
<th>Architectural Requirements</th>
<th>Building Systems Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>(2)(c)</td>
<td>acoustic control provided to</td>
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<td></td>
<td>mitigate noise emitted by MRI</td>
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<td></td>
<td>scanner per Table 1.2-6</td>
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<tr>
<td>2.2-3.3.4.8(3)</td>
<td>Specific Requirements for Hybrid Operating Rooms with Vascular Imaging Systems:</td>
</tr>
<tr>
<td></td>
<td>□ check if not included in project</td>
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<tr>
<td>2.2-3.4.1.3(1)</td>
<td>____ Shielded control alcove or room</td>
</tr>
<tr>
<td>(a)</td>
<td>Space Requirements:</td>
</tr>
<tr>
<td></td>
<td>____ sized &amp; configured according</td>
</tr>
<tr>
<td></td>
<td>to manufacturer’s recommendations</td>
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<tr>
<td>(c)</td>
<td>____ shielded view window designed to</td>
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<td>provide full view of examination/</td>
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<td>procedure table &amp; patient at all</td>
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<td></td>
<td>times including full view of</td>
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<td></td>
<td>patient during imaging activities</td>
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<td></td>
<td>(use of additional closed-circuit video monitoring permitted)</td>
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<tr>
<td>(d)</td>
<td>____ control room enclosed with walls &amp;</td>
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<tr>
<td></td>
<td>door</td>
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<tr>
<td>2.2-3.3.5</td>
<td>PRE- &amp; POSTOPERATIVE PATIENT CARE AREAS</td>
</tr>
<tr>
<td>2.1-3.4.1.1</td>
<td>____ Patient care stations accommodate lounge</td>
</tr>
<tr>
<td></td>
<td>chairs, gurneys or beds for pre- &amp;</td>
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<tr>
<td></td>
<td>post-procedure (recovery) patient care</td>
</tr>
<tr>
<td>2.1-3.4.1.1(2)</td>
<td>____ Patient care stations accommodate seating space for family/visitors</td>
</tr>
<tr>
<td>2.1-3.4.1.2</td>
<td>____ Location in unrestricted area</td>
</tr>
<tr>
<td>2.1-3.4.1.3(2)</td>
<td>____ Layout:</td>
</tr>
<tr>
<td>(a)</td>
<td>____ combination of pre- &amp; post-procedure patient care stations in one area</td>
</tr>
<tr>
<td></td>
<td>____ patient care stations combined in same area meet most restrictive requirements of areas to be combined</td>
</tr>
<tr>
<td>or</td>
<td>____ separate pre-procedure patient care area &amp; post-procedure recovery area</td>
</tr>
<tr>
<td></td>
<td>____ patient care stations combined in same area meet most restrictive requirements of areas to be combined</td>
</tr>
<tr>
<td>or</td>
<td>____ three areas: pre-procedure patient care area Phase I post-anesthetic care unit (PACU) &amp; Phase II recovery area</td>
</tr>
<tr>
<td>2.1-3.4.1.4</td>
<td>Number of Patient Care Stations:</td>
</tr>
<tr>
<td>(1)</td>
<td>____ pre- &amp; post-procedure patient care stations are combined into one patient care area</td>
</tr>
<tr>
<td></td>
<td>□ check if not included in project</td>
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<tr>
<td></td>
<td>____ at least two patient care stations for each operating room</td>
</tr>
</tbody>
</table>
(2) separate pre-procedure & recovery areas
☐ check if not included in project

2.1-3.4.3 pre-procedure patient care room
or area provides minimum of one
patient care station per imaging
room, procedure room or
operating room

2.1-3.4.4 Phase I post-anesthetic care unit
(PACU) provides minimum of one
Phase I patient care station per
Class 3 imaging or operating room

2.1-3.4.5 Phase II recovery room(s) or area
minimum of one Phase II
patient care station per
operating room

2.1-3.4.2.2 Space Requirements:
(2)(a) patient care bays
☐ check if not included in project
___ min. clearance 5'-0" between sides
of patient beds/gurneys/lounge
chairs
___ min. clearance 3'-0" between sides
of patient beds/gurneys/lounge
chairs & adjacent* walls or
partitions
___ min. clearance 2'-0" between foot
of patient beds/gurneys/lounge
chairs & cubicle curtain

Ventilation:
___ Min. 6 air changes per hour
Table 7.1
___ No recirculating room units

Power:
___ Min. 8 receptacles in total
___ convenient to head of
gurney or bed
Table 2.1-1

Nurse Call System:
___ Staff assistance station
___ Emergency call station
Table 2.1-2

Medical Gases:
___ 1 OX, 3 VAC, 1 MA per station
Table 2.1-3

(2)(b) patient care cubicles
☐ check if not included in project
___ min. clearance 3'-0" between sides
of patient beds/gurneys/lounge
chairs & adjacent* walls or
partitions
___ min. clearance 2'-0" between foot
of patient beds/gurneys/lounge
chairs & cubicle curtain

Ventilation:
___ Min. 6 air changes per hour
Table 7.1
___ No recirculating room units

Power:
___ Min. 8 receptacles in total
___ convenient to head of
gurney or bed
Table 2.1-1

Nurse Call System:
___ Staff assistance station
___ Emergency call station
Table 2.1-2

Medical Gases:
___ 1 OX, 3 VAC, 1 MA per station
Table 2.1-3

bays or cubicles face each other
☐ check if not included in project
___ aisle with min. clearance 8'-0"
independent of foot clearance
between patient stations or other
fixed objects
Architectural Requirements

(2)(c)  
--- single-patient rooms  
  ☐ check if not included in project  
  --- min. clearance 3'-0” between sides & foot of beds/gurneys/lounge chairs & adjacent* walls or partitions

2.1-2.4.2  
--- Airborne infection isolation (AII) room in pre-procedure & recovery areas

2.1-2.4.2.2  
--- complies with requirements applicable to single-patient rooms

(2)  
--- personal protective equipment (PPE) storage at entrance to room

(3)  
--- handwashing station

(4)  
--- patient toilet room  
  --- serves only one AII room

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

(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

Building Systems Requirements

Ventilation:
--- Min. 6 air changes per hour  
--- No recirculating room units  
Table 7.1

Power:
--- Min. 8 receptacles in total  
--- convenient to head of gurney or bed  
Table 2.1-1

Nurse Call System:
--- Staff assistance station  
--- Emergency call station  
Table 2.1-2

Medical Gases:
--- 1 OX, 3 VAC, 1 MA per station  
Table 2.1-3

Ventilation:
--- Min. 12 air changes per hour  
--- Exhaust  
--- Negative pressure  
--- No recirculating room units  
Table 7.1

Ventilation:
--- Min. 10 air changes per hour  
--- Exhaust  
--- Negative pressure  
--- No recirculating room units  
Table 7.1

Ventilation:
--- Min. 10 air changes per hour  
--- Exhaust  
--- No recirculating room units  
Table 7.1
Architectural Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Status</th>
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<tbody>
<tr>
<td>___ edge seals provided along sides &amp; top of doorframe for any door into AII room</td>
<td></td>
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<tr>
<td>2.1-2.4.2.5</td>
<td></td>
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<tr>
<td>___ room pressure visual or audible alarm</td>
<td></td>
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<tr>
<td>2.1-3.4.2.4</td>
<td></td>
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<tr>
<td>Patient Privacy:</td>
<td></td>
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<tr>
<td>2.1-2.1.2</td>
<td></td>
</tr>
<tr>
<td>___ provisions are made to address patient visual &amp; speech privacy</td>
<td></td>
</tr>
<tr>
<td>2.1-3.4.2.5</td>
<td></td>
</tr>
<tr>
<td>Handwashing stations</td>
<td></td>
</tr>
<tr>
<td>2.1-2.8.7.1</td>
<td></td>
</tr>
<tr>
<td>___ located in each room where hands-on patient care is provided</td>
<td></td>
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<tr>
<td>2.1-2.8.7.3</td>
<td></td>
</tr>
<tr>
<td>___ handwashing station serves multiple patient care stations</td>
<td></td>
</tr>
<tr>
<td>□ check if not included in project</td>
<td></td>
</tr>
<tr>
<td>(1) at least 1 handwashing station for every 4 patient care stations or fewer &amp; for each major fraction thereof</td>
<td></td>
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<tr>
<td>(2) ___ handwashing stations evenly distributed</td>
<td></td>
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<tr>
<td>2.1-3.4.4.2</td>
<td></td>
</tr>
<tr>
<td>At least one route of patient transport provides direct access from semi-restricted area of surgical suite to Phase I recovery area without crossing public corridors</td>
<td></td>
</tr>
<tr>
<td>2.1-3.4.4.3</td>
<td></td>
</tr>
<tr>
<td>Design of Phase I recovery area provides observation of all patient care stations from nurse station</td>
<td></td>
</tr>
</tbody>
</table>

Building Systems Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
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<tbody>
<tr>
<td>2.2-3.3.5.8 SUPPORT AREAS FOR PRE- &amp; POST-OPERATIVE PATIENT CARE AREAS</td>
</tr>
<tr>
<td>2.2-3.3.5.8(1) General support areas in this section are provided in or directly accessible* to pre- &amp; postoperative patient care areas</td>
</tr>
<tr>
<td>2.2-3.3.5.8(2) Nurse station</td>
</tr>
<tr>
<td>2.1-2.8.2</td>
</tr>
<tr>
<td>___ space for counters</td>
</tr>
<tr>
<td>2.1-2.8.2.1(1)</td>
</tr>
<tr>
<td>___ handwashing station next to or directly accessible*</td>
</tr>
<tr>
<td>or</td>
</tr>
<tr>
<td>___ hand sanitation dispenser next to or directly accessible*</td>
</tr>
<tr>
<td>2.1-2.8.2.2</td>
</tr>
<tr>
<td>Center for reception &amp; communication</td>
</tr>
<tr>
<td>___ self-contained</td>
</tr>
<tr>
<td>or</td>
</tr>
<tr>
<td>___ combined with administrative center or nurse station</td>
</tr>
<tr>
<td>2.1-2.8.3</td>
</tr>
<tr>
<td>Documentation area</td>
</tr>
<tr>
<td>___ work surface to support documentation process</td>
</tr>
</tbody>
</table>

Nurse Call System:

<table>
<thead>
<tr>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1-8.5.1.2(3)(b) Duty station (light/sound signal)</td>
</tr>
</tbody>
</table>
### Architectural Requirements

2.2-3.3.5.8(7)  
___ Clinical sink

2.2-3.3.5.8(8)  
___ Medication safety zone

(a)  
___ provided in postoperative patient care areas

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

(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

(b)  
___ work counter

___ handwashing station

___ lockable refrigerator

___ 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

(c)  
___ handwashing station located next to stationary medication-dispensing units or stations

2.2-3.3.5.8(9)  
___ Nourishment area

___ provided in unrestricted patient care area

2.1-2.8.9.2(1)  
___ handwashing station

2.1-2.8.9.2(2)  
___ work counter

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 for separate temporary storage of unused & soiled meal trays

### Building Systems Requirements

Lighting:

___ Task-specific lighting level  
2.1-2.8.8.1(2)(d)  
min. 100 foot-candles

Ventilation:

___ Min. 4 air changes per hour  
Table 7.1

Lighting:

___ Task lighting  
2.1-2.8.8.1(2)(d)

Nurse Call System:

___ Duty station (light/sound signal)  
Table 2.1-2

Ventilation:

___ Min. 2 air changes per hour  
Table 7.1

Nurse Call System:

___ Duty station (light/sound signal)  
2.1-8.5.1.2(3)(b)
Architectural Requirements

2.2-3.3.5.8(10)  ____ Ice-making equipment
(b)  ____ not located in semi-restricted area

2.2-3.3.5.8(12)

2.2-3.3.7.12(1)(a)

(1)(b)  ____ separate soiled workrooms or holding rooms for unrestricted area and semi-restricted area

or

____ soiled workroom or holding room shared between unrestricted area and semi-restricted

____ direct access provided from semi-restricted area

____ separate entrance provided from unrestricted area

(c)  ____ soiled workroom or holding room do not have direct connection with operating rooms or other sterile activity rooms

2.1-2.8.12.2

(1)(a)  ____ handwashing station

(1)(b)  ____ flushing-rim clinical service sink with bedpan-rinsing device or equivalent flushing-rim fixture

(1)(c)  ____ work counter

(1)(d)  ____ space for separate covered containers for waste & soiled linen

(2)  ____ fluid management system is used ☐ check if not included in project

(a)  ____ electrical & plumbing connections that meet manufacturer requirements

(b)  ____ space for docking station

or

2.1-2.8.12.3  ____ soiled holding room

(1)  ____ handwashing station or hand sanitation station

(2)  ____ space for separate covered containers for waste & soiled linen

2.2-3.3.7.12(3)

(b)  ____ other provisions for disposal of liquid waste are made

SUPPORT AREAS FOR STAFF

2.2-3.3.5.9  ____ Staff toilet room located in postoperative patient care area to maintain staff availability to patients

Building Systems Requirements

Ventilation:

____ Min. 10 air changes per hour  Table 7.1

____ Exhaust

____ Negative pressure

____ No recirculating room units

Nurse Call System:

____ Duty station (light/sound signal)  Table 2.1-2

____ Fluid management system is used

☐ check if not included in project

____ electrical & plumbing connections that meet manufacturer requirements

____ space for docking station

Ventilation:

____ Min. 10 air changes per hour  Table 7.1

____ Exhaust

____ Negative pressure

____ No recirculating room units
## Architectural Requirements

### 2.2-3.3.5.10 SUPPORT AREAS FOR PATIENTS & VISITORS

1. Patient toilet room
   
   a. **Location:**
      - directly accessible* to pre- & postoperative patient care area
      - private toilet room directly accessible* from each pre- & postoperative single-patient room used for Airborne Infection Isolation (AII)

   **Errata**
   - check if not included in project
   - (only if no AII rooms are provided in pre- & post-operative areas)

2. Number:
   - one patient toilet for each eight patient care stations or fewer & for each major fraction thereof

### 2.2-3.3.6 SUPPORT AREAS IN SEMI-RESTRICTED AREA

#### 2.2-3.3.6.2 Nurse or control stations

1. access through all entries to semi-restricted area must be controlled

2. nurse or control station located in semi-restricted area

   or

3. nurse or control station located in unrestricted area

   - directly accessible* to semi-restricted area

3. nurse or control stations permit direct visual observation of traffic into semi-restricted area

#### 2.2-3.3.6.6 Hand scrub facilities

1. at least one hand scrub position for each cesarean delivery room, operating room & Class 3 imaging room

   - located next to entrance to each

2. room (one hand scrub station consisting of two scrub positions may be shared if located adjacent* to entrance of each room)

3. placement of scrub station does not restrict min. required corridor width

### 2.2-3.3.13 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
Architectural Requirements

2.2-3.3.6.14
(1) Environmental services room
   ___ not shared with other areas
(2) accessed from semi-restricted corridor

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

2.2-3.3.6.15
"SATELLITE" STERILE PROCESSING FACILITIES
☐ check if not included in project
2.1-5.1.2 (only if hospital includes a Central Processing Department or if contractual arrangements are made for off-site processing and support areas for off-site processing are provided in hospital)

2.1-5.1.2.1(2) Sterile processing facility meet requirements of semi-restricted area

2.1-5.1.2.1(3) Layout:
   ___ sterile processing facilities designed to provide one-way traffic pattern

2.1-5.1.2.2 Two-room sterile processing facility
☐ check if not included in project
(1)(a) decontamination room & clean workroom physically separated by wall containing door or pass-through window
   or
   ___ built-in washer/disinfector with pass-through door or window
(1)(b) Sterilizer access room for maintaining equipment
☐ check if not included in project
(2) Decontamination room
   (a) sized to meet min. equipment space & clearances needed for equipment used equipment shown on plans
   (b) work counter(s)
   ___ handwashing station
   ___ three-basin sink with counter
   ___ flushing-rim clinical sink or equivalent fixture
   or
   ___ alternative methods for disposal of bio-waste
   ___ space for waste & soiled linen receptacles
   ___ documentation area

Building Systems Requirements

Ventilation:
___ Min. 10 air changes per hour Table 7.1
___ Exhaust
___ Negative pressure
___ No recirculating room units

Table 7.1
Ventilation:
___ Min. 6 air changes per hour
___ Exhaust
___ Negative pressure
___ No recirculating room units

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<table>
<thead>
<tr>
<th>Architectural Requirements</th>
<th>Building Systems Requirements</th>
</tr>
</thead>
</table>
| ___ instrument air outlet for drying instruments  
   or ___ portable compressed air for drying instruments  
   ___ storage for decontamination supplies & personal protective equipment (PPE) | Ventilation:  
   ___ Min. 4 air changes per hour  
   ___ Positive pressure  
   ___ No recirculating room units |
| **(3)** Clean workroom  
   (a) ___ sized to accommodate sterilization equipment used  
       ___ equipment shown on plans  
   (b) ___ work counter  
       ___ handwashing station  
       ___ storage for sterilization supplies  
       ___ documentation area  
       ___ instrument air outlet for drying instruments  
       or ___ portable compressed air for drying instruments  
       ___ cooling area for sterilization cart  
       ☐ check if not included in project | Table 7.1 |
| **(4)** Sterile storage (provided for storage of sterile instruments & supplies)  
   (a) ___ area part of clean workroom  
       or ___ separate storage room  
   (b) ___ space for case cart storage  
       ☐ check if not included in project  
       (only if case carts are not used) | Ventilation:  
   ___ Min. 4 air changes per hour  
   ___ Positive pressure |
| **2.1-5.1.2.3** One-room sterile processing facility  
   ☐ check if not included in project  
   (1) ___ consists of decontamination area & clean work area  
   (b) ___ two entrances  
   or ___ single entrance  
       ___ located approximately equidistant from clean & decontamination sides of room  
       ___ allows for one-way traffic flow | Table 7.1 |
| **(2)** decontamination area  
   (a) ___ countertop  
       ___ two-basin sink for washing instruments  
       ___ handwashing station  
       ___ separate from instrument-washing sink  
       ___ storage for supplies | Ventilation:  
   ___ Min. 6 air changes per hour  
   ___ Exhaust  
   ___ Negative pressure  
   ___ No recirculating room units  
   Table 7.1 |
<table>
<thead>
<tr>
<th>Architectural Requirements</th>
<th>Building Systems Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Instrument air outlet for drying instruments</td>
</tr>
<tr>
<td></td>
<td>or</td>
</tr>
<tr>
<td></td>
<td>Portable compressed air for drying instruments</td>
</tr>
<tr>
<td>(b)</td>
<td>Instrument-washing sink separated from clean work area by 4'-0&quot; foot distance from edge of sink</td>
</tr>
<tr>
<td></td>
<td>or</td>
</tr>
<tr>
<td></td>
<td>Instrument-washing sink separated from clean work area by wall</td>
</tr>
<tr>
<td></td>
<td>or</td>
</tr>
<tr>
<td></td>
<td>Instrument-washing sink separated from clean work area by screen</td>
</tr>
<tr>
<td></td>
<td>Screen extends min. 4'-0&quot; above sink rim</td>
</tr>
<tr>
<td>(3)</td>
<td>Clean work area</td>
</tr>
<tr>
<td>(a)</td>
<td>Countertop</td>
</tr>
<tr>
<td>(b)</td>
<td>Sterilizer</td>
</tr>
<tr>
<td>(c)</td>
<td>Storage for supplies</td>
</tr>
<tr>
<td>(d)</td>
<td>Instrument air outlet for drying instruments</td>
</tr>
<tr>
<td></td>
<td>or</td>
</tr>
<tr>
<td></td>
<td>Portable compressed air for drying instruments</td>
</tr>
<tr>
<td>2.1-5.1.2.4</td>
<td>Equipment &amp; supply storage</td>
</tr>
<tr>
<td>(1)</td>
<td>Instrument &amp; supply storage provided for sterile &amp; clean instruments &amp; supplies</td>
</tr>
<tr>
<td>(a)</td>
<td>Separate room</td>
</tr>
<tr>
<td></td>
<td>or</td>
</tr>
<tr>
<td></td>
<td>Portion of clean workroom</td>
</tr>
<tr>
<td>(b)</td>
<td>Space for case cart storage</td>
</tr>
<tr>
<td></td>
<td>check if not included in project</td>
</tr>
<tr>
<td></td>
<td>(only if case carts are not used in facility)</td>
</tr>
<tr>
<td>(2)</td>
<td>Clean/sterile medical/surgical supply receiving room</td>
</tr>
<tr>
<td>2.1-5.1.2.5</td>
<td>Support Areas for Staff:</td>
</tr>
<tr>
<td>(1)(a)</td>
<td>Separate changing areas provided for male &amp; female staff (unisex changing area with one or more private changing rooms is permitted)</td>
</tr>
<tr>
<td>(1)(b)</td>
<td>Staff changing areas meet requirements</td>
</tr>
<tr>
<td>(1)(c)</td>
<td>Staff changing areas meet requirements of unrestricted area (may be shared with other departments or services)</td>
</tr>
<tr>
<td>(2)(a)</td>
<td>Lockers</td>
</tr>
</tbody>
</table>

Ventilation:

|   | Min. 4 air changes per hour  |
|   | Positive pressure  |
|   | No recirculating room units  |

Table 7.1
Compliance Checklist: Surgical Services

---

**Architectural Requirements**

(2)(b) ___ toilet room

(2)(c) ___ handwashing station

(2)(d) ___ space for donning surgical attire

(2)(e) ___ provision for separate storage of clean & soiled work attire

---

**Building Systems Requirements**

Ventilation:

- ___ Min. 10 air changes per hour
- Table 7.1
- ___ Exhaust
- ___ Negative pressure
- ___ No recirculating room units

---

2.2-3.3.7 **SUPPORT AREAS DIRECTLY ACCESSIBLE TO SEMI-RESTRICTED AREA**

2.2-3.3.7.12 ___ Soiled workroom or soiled holding room

(c) ___ no direct connection with operating rooms or other sterile activity rooms

---

2.1-2.8.12.2 ___ soiled workroom

(1)(a) ___ handwashing station

(1)(b) ___ flushing-rim clinical service sink with bedpan-rinsing device or equivalent flushing-rim fixture

(1)(c) ___ work counter

(1)(d) ___ space for separate covered containers for waste & soiled linen

(2) ___ fluid management system is used

☐ check if not included in project

(a) ___ electrical & plumbing connections that meet manufacturer requirements

(b) ___ space for docking station

---

2.1-2.8.12.3 ___ soiled holding room

(1) ___ handwashing station or hand sanitation station

(2) ___ space for separate covered containers for waste & soiled linen

2.2-3.3.7.12(3) ___ other provisions for disposal of liquid waste are provided and described in Project Narrative

---

2.2-3.3.7.13 ___ Clean equipment & supply storage for clean equipment & supplies used in semi-restricted & restricted areas

(1) ___ general clean equipment & supply room separate from & have no direct connection with soiled holding room

(2) ___ min. 50 sf per operating room

___ min. 300 sf

---

Ventilation:

- ___ Min. 10 air changes per hour
- Table 7.1
- ___ Exhaust
- ___ Negative pressure
- ___ No recirculating room units

---

2.2-3.3.7.12(3) ___ other provisions for disposal of liquid waste are provided and described in Project Narrative

---

Ventilation:

- ___ Min. 4 air changes per hour
- Table 7.1
- ___ Positive pressure
- ___ No recirculating room units

---

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Architectural Requirements

2.2-3.3.8

OTHER SUPPORT AREAS IN SURGERY DEPARTMENT

2.2-3.3.8.13(1)  Clean linen storage (may be in designated location in clean supply & equipment storage room)

(3)  Storage space for gurneys, stretchers & wheelchairs

(5)  Medical gas storage
     space for supply & storage of medical gases used in facility including space for reserve cylinders provided
     protected in accordance with NFPA 99 Health Care Facilities Code

(6)  Storage for large clinical equipment
     ☐ check if not included in project

2.2-3.3.8.16  Storage for blood, organs, tissue & pathological specimens

(1)  equipment temperature controls alarms & monitoring

2.1-4.1.2.3  Refrigerated storage facilities

(1)  refrigerator

(2)  blood storage facilities

2.2-3.3.8.17  Area for preparation & examination of frozen sections

     located in Surgical Department
     or
     located in general laboratory
     immediate results are obtainable

2.2-3.3.9

SUPPORT AREAS FOR SURGERY DEPARTMENT STAFF

2.2-3.3.9.1  Staff lounge

2.2-3.3.9.4  Staff changing area & toilet facilities

(1)  one or more private changing rooms or areas for male & female staff working in semi-restricted & restricted areas of surgery department

(2)(a)  lockers

(2)(b)  showers

(2)(c)  toilets

Ventilation:

     Min. 10 air changes per hour  Table 7.1
     Exhaust
     Negative pressure
     No recirculating room units

(2)(d)  handwashing stations

(2)(e)  space for donning & doffing surgical attire

(2)(f)  provisions for separate storage of clean & soiled surgical attire
Architectural Requirements

2.2-3.3.10  SUPPORT AREAS FOR PATIENTS FAMILIES & VISITORS

2.2-3.3.10.3  Patient changing area

☐ check if not included in project (only if patients are assigned private holding rooms or cubicles)

(1)(a)  provisions for storing patients’ belongings during procedures

(1)(b)  toilet room

(1)(c)  space for changing or gowning

2.2-3.3.10.4  Waiting area for families & visitors

Building Systems Requirements

Ventilation:

☐ Min. 10 air changes per hour  Table 7.1
☐ Exhaust
☐ 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

CORRIDOR WIDTH:

2.1-7.2.2.1  NFPA 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

(2)  ☐ Min. height 7'-0" in radiography, procedure & operating rooms from floor to lowest protruding element of equipment or fixture in stowed position

(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  DOORS & DOOR HARDWARE:

Door Type:

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

or

☐ manual or automatic sliding doors comply with NFPA 101

☐ detailed code review included in Project Narrative

☐ no floor tracks

Door Opening:

(2)  ☐ min. 45.5" clear door width for diagnostic/treatment areas

☐ min. 83.5" clear door height for diagnostic/treatment areas

☐ 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 & doors with emergency breakaway hardware

(4) Lever hardware or push/pull latch hardware

(5) Doors for Patient Toilet Facilities:
   (a) two separate doors or
   (b) door that swings outward or
   (c) door equipped with emergency rescue hardware (permits quick access from outside the room to prevent blockage of the door) or
   (d) sliding door other than pocket door

(b) toilet room opens onto public area or corridor
   □ check if not included in project
   **** visual privacy is maintained

2.1-7.2.2.7 GLAZING MATERIALS:
   (a) Glazing within 1 foot 6 inches of floor
      □ check if not included in project
      (b) 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) Handwashing station countertops
   (a) made of porcelain, stainless steel, solid-surface materials or impervious plastic laminate assembly

(b) Countertops substrate
   □ check if not included in project
   (i) marine-grade plywood (or equivalent material) with impervious seal

(4) Handwashing station casework
   □ check if not included in project
   (b) designed to prevent storage beneath sink

2.1-7.2.9 GRAB BARS:
   (1) Grab bars anchored to sustain concentrated load 250 pounds
   (3) Ends of grab bars constructed to prevent snagging clothes of patients staff & visitors

2.1-7.2.11 RADIATION PROTECTION:
   □ check if no radiation emitting equipment is included in project
   (a) Protection for X-ray & Gamma-ray installations are shown in the plans
   (b) Documentation for radiation protection has been submitted separately to the DPH Radiation Control Program

2.1-7.2.12 NOISE CONTROL:
   (1) Recreation rooms, exercise rooms equipment rooms & similar spaces where impact noises may be generated are not located directly over operating suites

(2) Noise reduction criteria in Table 1.2-6 applicable to partitions, floors & ceiling construction are met in patient areas

2.1-7.2.3 SURFACES
2.1-7.2.3.1 FLOORING & WALL BASES:
   (1) Flooring surfaces cleanable & wear-resistant for location

(3) Smooth transitions provided between different flooring materials

(4) Flooring surfaces including those on stairways are stable, firm & slip-resistant

(5) Floors & wall bases of soiled workrooms, toilet rooms & other areas subject to frequent wet cleaning are constructed of materials that are not physically affected by germicidal or other types of cleaning solutions
### WALLS & WALL PROTECTION:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>(7)(a) Floors are monolithic &amp; integral coved wall bases are at least 6&quot; high &amp; tightly sealed to wall in rooms listed below</td>
<td></td>
</tr>
<tr>
<td>- Operating rooms</td>
<td>✔</td>
</tr>
<tr>
<td>- Procedure rooms where cystoscopy, urology &amp; endoscopy procedures are performed</td>
<td>✔</td>
</tr>
<tr>
<td>- Airborne infection isolation (AII) room &amp; any anteroom</td>
<td>✔</td>
</tr>
<tr>
<td>- Protective environment (PE) room &amp; any anteroom</td>
<td>✔</td>
</tr>
<tr>
<td>- Sterile processing facility</td>
<td>✔</td>
</tr>
</tbody>
</table>

2.1-7.2.3.2

**FURNISHINGS:**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1-7.2.4.1 Built-in furnishings upholstered with impervious materials in patient treatment areas with risks of exposure &amp; contamination from bodily fluids &amp; other fluids</td>
<td>✔</td>
</tr>
</tbody>
</table>

2.1-7.2.4.3 Privacy curtains in patient care areas are washable

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

**UTILITIES:**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part 3/6.1 Ventilation Upon Loss of Electrical Power:</td>
<td>✔</td>
</tr>
<tr>
<td>- space ventilation &amp; pressure relationship requirements of Table 7.1 are maintained for AII Rooms &amp; Operating Rooms in event of loss of normal electrical power</td>
<td>✔</td>
</tr>
</tbody>
</table>

Part 3/6.1.2

**Heating & Cooling Sources:**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part 3/6.1.2.1 Heat sources &amp; essential accessories provided in number &amp; 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</td>
<td>✔</td>
</tr>
<tr>
<td>- capacity of remaining source or sources is sufficient to provide heating for operating rooms &amp; recovery rooms</td>
<td>✔</td>
</tr>
</tbody>
</table>

Part 3/6.2.2

**Central cooling systems greater than 400 tons (1407 kW) peak cooling load**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>- check if not included in project</td>
<td>✔</td>
</tr>
<tr>
<td>- number &amp; arrangement of cooling sources &amp; essential accessories is sufficient to support facility operation plan upon breakdown or routine maintenance of any one of cooling sources</td>
<td>✔</td>
</tr>
</tbody>
</table>

Part 3/6.2

**AIR-HANDLING UNIT (AHU) DESIGN:**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part 3/6.2.1 AHU casing is designed to prevent water intrusion, resist corrosion &amp; permit access for inspection &amp; maintenance</td>
<td>✔</td>
</tr>
</tbody>
</table>
Part 3/6.3 OUTDOOR AIR INTAKES & EXHAUST DISCHARGES:

Part 3/6.3.1 Outdoor Air Intakes:

- _located min. of 25'-0" from cooling towers & all exhaust & vent discharges_
- _outdoor air intakes located such that bottom of air intake is at least 6'-0" above grade_
- _air intakes located away from public access_

Part 3/6.3.1.3 _intakes on top of buildings_
- _☐ check if not included in project_
- _located with bottom of air intake min. of 3'-0" above roof level_

Part 3/6.3.1.4 _intake in areaway_
- _☐ check if not included in project_
- _bottom of areaway air intake opening is at least 6'-0" above grade_
- _bottom of air intake opening from areaway into building is at least 3'-0" above bottom of areaway_

Part 3/6.2 Exhaust Discharges for Infectious Exhaust Air:
- _☐ check if not included in project_

Part 3/6.2.1 _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 3/6.2.2 _exhaust discharge outlets with contaminated air is arranged to discharge to atmosphere in vertical direction at least 10 feet above adjoining roof level_
- _exhaust discharge outlets from laboratory work area chemical fume hoods discharge with stack velocity of at least 2500 fpm_
- _exhaust discharge outlets from AII rooms bronchoscopy & sputum collection exhaust & laboratory work area chemical fume hoods is located not less than 25 feet horizontally from outdoor air intakes, openable windows/doors & areas that are normally accessible to public_

Part 3/6.5 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, OR or procedure room_

Part 3/6.7 AIR DISTRIBUTION SYSTEMS:

Part 3/6.7.1 _Maintain pressure relationships required in tables 7.1 in all modes of HVAC system operation_
- _Spaces that have required pressure relationships are served by fully ducted return systems or fully ducted exhaust systems_
- _Inpatient facilities & recovery rooms are served by fully ducted return or exhaust systems_

Part 3/6.7.2 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 or combination AII/PE rooms are not used for energy recovery
Part 3/6.8.3       Energy recovery systems with leakage potential
☐ check if not included in project
☐ arranged to minimize potential to transfer exhaust air directly back into supply airstream
☐ designed to have no more than 5% of total supply airstream consisting of exhaust air not used from these exhaust airstream sources: waste anesthesia gas disposal, soiled or decontamination room

Part 3/6.9.1       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       SPACE VENTILATION
Part 3/7.1.a       Spaces ventilated according to Table 7.1
Part 3/7.1.a.1       Air movement is from clean to less-clean areas
Part 3/7.1.a.3       Min. number of total air changes required for positive pressure rooms is provided by total supply airflow
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 3/7.2       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

Part 3/7.3       Operating Rooms
☐ check if not included in project
☐ Each OR has individual temperature control
☐ OR is provided with primary supply diffuser array designed as follows:
  ☐ airflow is unidirectional downwards & average velocity of diffusers is 25 to 35 CFM/ft²
  ☐ diffusers are concentrated to provide airflow pattern over patient & surgical team
  ☐ coverage area of primary supply diffuser array extends min. 12" beyond footprint of surgical table on each side
  ☐ no more than 30% of portion of primary supply diffuser array is used for non-diffuser uses
  ☐ additional supply diffusers provided within room outside of primary supply diffuser array
    ☐ check if not included in project
    ☐ each OR has at least two low sidewall return or exhaust grilles spaced at opposite corners or as far apart as possible with bottom of these grilles installed approximately 8" above floor

Part 3/7.4.1       Imaging Procedure Rooms
☐ check if not included in project
☐ Anesthetic gases are administered ventilation requirements for operating rooms are met
  or
☐ No anesthetics gases are administered

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Part 3/7.4.3       Imaging Procedure Rooms
☐ check if not included in project
☐ Anesthetic gases are administered ventilation requirements for operating rooms are met
  or
☐ No anesthetics gases are administered
2.1-8.3 ELECTRICAL SYSTEMS

2.1-8.3.2 ELECTRICAL DISTRIBUTION & TRANSMISSION

2.1-8.3.2.2 Panelboards:
(1) panelboards serving life safety branch circuits serve floors on which they are located & floors immediately above & below
(2) panelboard critical branch circuits serve floors on which they are located
(3) panelboards not located in exit enclosures or exit passageways

2.1-8.3.2.3 Ground-Fault Circuit Interrupters in Critical Care Areas:
☐ check if not included in project
(2) each receptacle individually protected by single GFCI device

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 depend on building electrical service for operation are connected to essential electrical system
☐ check if not included in project

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
(2) duplex-grounded receptacles for general use installed within 25'-0" of corridor ends

2.1-8.3.6.3 Essential Electrical System Receptacles:
(1) cover plates for electrical receptacles supplied from essential electrical system are distinctively colored or marked for identification
(2) same color is used throughout facility

2.1-8.4 PLUMBING SYSTEMS

2.1-8.4.2 Plumbing & Other Piping Systems:
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
(3)(a) non-recirculated fixture branch piping max. length 25'-0"
(3)(c) 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 operating rooms, procedure rooms, sterile processing facilities, electronic data processing areas & electric closets
☐ check if not included in project
(1)(b) drip pan for drainage piping above ceiling of sensitive area
☐ check if not included in project
(2) Floor Drains:
(a) no floor drains in procedure rooms, operating rooms, Class 2 & Class 3 imaging rooms
(b) floor drain in dedicated cystoscopy procedure room
☐ check if not included in project
(2) recessed floor sink with automatic trap primer
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) sinks in handwashing stations are designed with basins that will reduce risk of splashing to areas where direct patient care is provided, sterile procedures are performed & medications are prepared
(2) sink basins have nominal size of no less than 144 square inches
(3) sink basins have min. dimension 9 inches in width or length
(4) sink basins are made of porcelain, stainless steel or solid-surface materials
(5) water discharge point of faucets is at least 10” above bottom of basin
(6) anchored so that allowable stresses are not exceeded where vertical or horizontal force of 250 lbs. is applied
(7) 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
☐ provide clearance required for operation
(b) sensor-regulated water fixtures
☐ check if not included in project
☐ meet user need for temperature & length of time water flows
☐ designed to function at all times and during loss of normal power

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

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

2.1-8.4.3.6 Scrub Sinks:
(1) freestanding scrub sinks are trimmed with foot, knee or electronic sensor controls
(2) no single-lever wrist blades except for temperature pre-set valve

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

2.1-8.5.1.3 Bath Stations:
☐ bath station that can be activated by patient lying on floor provided at each patient toilet
(1) alarm in these areas can be turned off only at bath station where it was initiated
(3) toilet bath stations located on the side of toilets within 12” of front of toilet bowl & 3'-0” to 4'-0” above floor

2.1-8.5.1.5 Emergency call stations are equipped with continuous audible or visual confirmation to person who initiated the code call

2.1-8.6.2 ELECTRONIC SURVEILLANCE SYSTEMS
☐ check if not included in project
2.1-8.6.2.2 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