Scripps

Policy: Infection Control Risk Assessment (ICRA)and Permitting Process for Construction, Renovation, Repair, Maintenance and Demolition Activities

Effective: 06/07/22 **Identifier: S-FW-IC-0013**

Acute Care: ENC ☒ GR ☒ LJ ☒ MER ☒ Ambulatory ☒ SHAS ☒

PURPOSE: To establish accountability and requirements for the *Infection Control Risk Assessment (ICRA) and Permitting Process* for construction, renovation, maintenance and repair activities.

I. POLICY

A. **Activities requiring** the ICRA and Permitting Process:

1. All construction, renovation, repairs, inspections above ceiling, maintenance, and demolition activities in critical care and sterile procedure areas (e.g., critical care units, transplant units, nurseries, bone marrow transplant units, surgical areas including C-section rooms, cardiac catheter laboratories, interventional radiology, endoscopy procedure rooms, central processing departments, food & nutrition services, pathology laboratory and pharmacy).
2. Construction, renovation, repair and demolition activities which have the *potential for generating dust or moisture* irrespective of project scope or timeline.
3. Exposure of ceiling spaces for installation of conduits, cabling, wiring or repair to HVAC and other utility systems.
4. Demolition or repair of walls, wallboards, plaster, ceramic tiles, ceiling tiles, ceilings.
5. Disruption (>4 Hours) or repair to HVAC system including disruptions resulting from routine maintenance activities.
6. Removal of flooring, carpeting, windows, casework.
7. Repair or remediation of water damage.
8. Mold remediation procedures.
9. Demolition, construction or repair of elevator shafts.
10. Any project which requires cutting of building materials or sanding (dry or wet) in patient care areas.

B. **Activities exempted** from the ICRA and Permitting Process:

1. Routine maintenance activities that do not generate dust (i.e., repair of thermostats, door hinges and locks, small equipment).
2. Removal of ceiling tile for INSPECTION ONLY which is limited to 1 tile per 50 square feet at a single time, outside critical care/sterile procedure areas. Note: Anyone entering the above ceiling space must be aware of plenum return air handler units prior to conducting above ceiling investigations. A mobile cubicle should be used in these instances.
3. Disruption (<4 Hours) or repair to HVAC system including disruptions resulting from routine maintenance activities does not require a permit but does require notification.
4. Painting and placement of wall covering.
5. Electrical trim work where dust and debris can be quickly captured and contained (using capture bags or HEPA porta-vacuums).

6. Minor plumbing repairs limited to adjustments ONLY in the occupied space.
7. Administrative space (commercial offices), general medical offices (non-invasive), 3rd party physician tenant offices, and similar environments.

C. New construction, renovation, demolition maintenance and repair will be planned and managed in a manner that minimizes dust from entering patient care areas.

D. A project planning group will be established for each project and will have the responsibility to confirm that all necessary precautions are taken and continuously enforced.

E. The type of construction and patient risk group are used to determine the class of precautions that are required. *(See Attachment A: ICRA Matrix)*

F. Prior to work starting on any ICRA Class 3 or 4 projects, the project planning group may need to collaborate as early as possible during the planning phase to evaluate the potential impacts of the work and to ensure the scope of the work is reasonably defined based on the complexity of the project.

G. The project's planning group will be comprised of the necessary and appropriate staff from FD&C, Engineering, Infection Prevention (IP) and/or designee, Environmental Health and Safety (EH&S), contractors and their subcontractors, and a representative from the area impacted by the work site (e.g., RN managers).

H. The IP and/or designee will define and identify special precautions, which must be adhered to during construction, remodeling, demolition maintenance and repair prior to the start of any construction, alterations, remodeling or physical repairs.

I. If work is suspended for Class 3 or 4, a follow up phone call, voicemail message or e-mail alerting the IP and/or designee and EH&S will occur after the emergent situation is handled.

J. Any amendment to a previously authorized permit must be approved and documented by IP and/or designee.

K. Non-compliance with infection control procedures may lead to work stoppage and/ or removal of personnel.

L. Ongoing monitoring for compliance with infection control permit procedures is required and will be documented by engineering department personnel.

M. All contracts for service, maintenance, repair and construction must include an agreement to adhere to the required infection control practices, Scripps health screening and ICRA training LMS module

N. Infection Prevention may modify procedures of this policy for special circumstances on a case-by-case basis.

II. RESPONSIBILITIES

A. FD&C and/or Facilities Project Manager/Engineering

1. Coordinate meetings with the project planning group.
2. Validate discussions about the ICRA occur by having the responsible personnel present at meetings for projects with potential ICRA Class 3 and 4 requirements.
3. Primary contact to receive construction reports and relay findings to the appropriate Facilities and Construction staff.
4. Primary contact for staff in the departments being impacted by the project, for any questions and concerns.

5. Initiate the ICRA permit and validate that information on the ICRA is complete and accurate.
6. Confirm that an ICRA is approved and posted prior to commencing work.
7. Confirm that all ICRA information and dates are current.
8. Request ICRA extension before the due date.
9. Notify the project planning group of any change in project scope so the ICRA can be re-assessed.
10. Provide oversight of project and keep copies of approved ICRAs and all other pertinent documentation for the project.
11. Suspend project if there is an infection risk, loss of containment or non-compliance with infection control policies. And take immediate action to correct all deficiencies.
12. A record of all approved ICRAs will be maintained for a period of 3 years

B. **Visual Inspections Rounding for ICRA Levels III & IV Engineering and or Designee.**

Conduct periodic (at least daily) visual inspections of all construction barriers and record findings on Attachment D or an equivalent electronic method.

C. I**nfection Prevention**

1. The IP and/or designee will be a member of the project planning group.
2. Participate in pre-construction meetings, standing meetings during the project and post-construction meetings as necessary to ensure compliance with this policy.
3. The IP and/or designee will assess all proposed work for Class 3 and 4 projects and modify/approve ICRA permit.
4. Suspend project if there is an infection risk, loss of containment or non-compliance with infection control policies. And take immediate action to correct all deficiencies.

A. **FD&C and/or Facilities Project Manager/Engineering/IP**

1. Validate that prior to beginning work, all workers on site are cleared by Employee Health (refer to Scripps policy *Access to Patient Care Facilities, Non-Employee Requirements For*; S-FW-EC-1157) and complete ICRA training via the LMS module.
    a. Training is a required prerequisite for obtaining contractor identification.
    b. Certificates of completion are submitted to the Contractor Clearance Center.
2. Validate that all workers have proper clearance and are issued the correct identification. Badges must be properly displayed when construction staff are on Scripps property.
3. Post any required signs or permits on the construction barrier
4. Coordinate the work of all construction personnel to monitor that all staff follow the requirements of the ICRA.

IV. PROCEDURES *(Refer to Attachment A: ICRA Matrix*)

V. RELATED PRACTICE DOCUMENTS

A. Access To Patient Care Facilities, Non-Employee Requirements For; S-FW-EC-1157
B. Badge, Identification and Access; S-FW-EC-2003
C. Interim Life Safety Measures (ILSM); S-FW-EC-5002
D. Water Intrusion Response, Standard Work; S-FW-EC-0193SW

VI. ATTACHMENTS

A. Infection Control Risk Assessment (ICRA) Matrix
B. ICRA Permit
C. Required Barrier Containment & Negative Pressure Requirements Synopsis
D. ICRA Rounds Checklist

VII. REFERENCES

A. The American Institute of Architects (AIA) Academy of Architecture for Health Guidelines for Design and Construction of Hospitals and Health Care Facilities.
B. Centers for Disease Control and Prevention. Guidelines for Environmental Infection Control in Health-Care Facilities, MMWR 52 (RR10) Current edition. http://www.cdc.gov/hicpac/pubs.html
C. Infection Prevention Manual for Construction & Renovation, APIC. current edition.
D. ECRI Institute. Infection Control Risk Assessment for Healthcare Construction Activities, Current edition.

VIII. SUPERSEDED

Infection Control Risk Assessment and Permitting Process for Construction, Renovation, Repair, Maintenance and Demolition Activities; S-FW-IC-0013, 06/20

Document Chronology		
ORIGINAL: 09/13	**REVISED: 03/17, 07/19, 06/20, 05/22**	**REVIEWED:**

DEVELOPMENT SUMMARY
05/22 Revised: Updated attachment A Matrix to 2.0 to match ASHE. Edits attachments B-D

Development Workgroup		
Representation	**Member Name**	**Member Title/Discipline**
Owner/ Workgroup Leader	Lisa Kilgore	Dir., Epidemiology
SHAS Representative	Lisa Kilgore	Dir., Epidemiology
Encinitas Representative	Kai Bryant	Mgr., Epidemiology
Green Representative	Elizabeth Jefferson	Mgr., Epidemiology
La Jolla Representative	Lisa Kilgore	Dir., Epidemiology
Mercy Representative	Tamara Hayes	Dir., Epidemiology
SMF Representative	Dayna Snyder	Clinical Risk Specialist
Engineering Representative	Raydel Gomez	Sr. Dir., Facilities/Support Ops
FD&C Representative	Sasan Asadyari	Dir., Construction

ENDORSEMENTS and APPROVALS		
Function	**Chair Name/Title/Position**	**Dates**
Executive Sponsor	Tina Pickett, AVP/Facilities & Support Operations	05/17/22
Environmental Health & Safety Committee	Steve Peterson, Sr. Dir., Facilities/Support Operations	05/13/22
SW ID Council	Gonzalo Ballon-Landa, MD	03/18/22

Infection Control Risk Assessment

Matrix of Precautions for Construction, Renovation and Operations

Step One:
Using Table 1, identify the Construction Project Activity Type (A-D).

Table 1 - Construction Project Activity Type: _____

Type A	**Inspection and non-invasive activities.** Includes but is not limited to: • Removal of ceiling tile for visual inspection-limited to 1 tile per 50 square feet with limited exposure time. • Limited building system maintenance (e.g., pneumatic tube station, HVAC system, fire suppression system, electrical and carpentry work to include painting without sanding) that does not create dust or debris. • Clean plumbing activity limited in nature.
Type B	**Small-scale, short duration activities that create minimal dust a/nd debris.** Includes but is not limited to: • Work conducted above the ceiling (e.g., prolonged inspection or repair of firewalls and barriers, installation of conduit and/or cabling, and access to mechanical and/or electrical chase spaces). • Fan shutdown/startup. • Installation of electrical devices or new flooring that produces minimal dust and debris. • The removal of drywall where minimal dust and debris is created. • Controlled sanding activities (e.g., wet or dry sanding) that produce minimal dust and debris.
Type C	**Large-scale, longer duration activities that create a moderate amount of dust and debris.** Includes but is not limited to: • Removal of preexisting floor covering, walls, case work or other building components. • New drywall placement. • Renovation work in a single room. • Non existing cable pathway or invasive electrical work above ceilings. • The removal of drywall where a moderate amount of dust and debris is created. • Dry sanding where a moderate amount of dust and debris is created. • Work creating significant vibration and/or noise. • Any activity that cannot be completed in a single work shift.
Type D	**Major demolition and construction activities.** Includes but is not limited to: • Removal or replacement of building system component(s). • Removal/installation of drywall partitions. • Invasive large-scale new building construction. • Renovation work in two or more rooms.

Step 2:

Using the following table, *identify* the Patient Risk Groups that will be affected.

If more than one risk group will be affected, select the higher risk group:

Low Risk	Medium Risk	High Risk	Highest Risk
☐ Office areas	☐ Cardiology ☐ Echocardiography ☐ Endoscopy ☐ Nuclear Medicine ☐ Physical Therapy ☐ Radiology/MRI ☐ Respiratory Therapy ☐ BHU ☐ Cafeteria	☐ Emergency Room ☐ Labor & Delivery ☐ Laboratories (specimen) ☐ Newborn Nursery/MCH ☐ Pharmacy ☐ Post Anesthesia Care Unit ☐ Medical Surgical Unit ☐ Cafeteria Food Prep/Kitchen	☐ Any area caring for Immunocompromised patients ☐ BMT/Organ Transplant ☐ Cardiac Cath/EP Lab ☐ Central Sterile Supply ☐ Intensive Care Units ☐ Negative pressure isolation rooms ☐ Oncology ☐ Operating rooms including C-section rooms ☐ Interventional Radiology

Step 3: **Match** the

Patient Risk Group *(Low, Medium, High, Highest)* with the planned:

Construction Project Type *(A, B, C,* D) on the following matrix, to find the:

Class of Precautions *(I, II, III or IV)* or level of infection control activities required.

- Class I-IV or Color-Coded Precautions are delineated on the following page.

IC Matrix - Class of Precautions: Construction Project by Patient Risk

Construction Project Type

Patient Risk Group	TYPE A	TYPE B	TYPE C	TYPE D
LOW Risk Group	**I**	**II**	**II**	**III/IV**
MEDIUM Risk Group	**I**	**II**	**III**	**IV**
HIGH Risk Group	**I**	**II**	**III/IV**	**IV**
HIGHEST Risk Group	**II**	**III/IV**	**III/IV**	**IV**

Note: Infection Control approval will be required when the Construction Activity and Risk Level indicate that Class III or Class IV control procedures are necessary.

Minimum Required Infection Control Precautions by Class Before and During Work Activity

Class of Precautions	Mitigation Activities (Performed Before and During Work Activity)
Class I	1. Perform noninvasive work activity as to not block or interrupt patient care. 2. Perform noninvasive work activities in areas that are not directly occupied with patients. 3. Perform noninvasive work activity in a manner that does not create dust. 4. Immediately replace any displaced ceiling tile before leaving the area and/or at end of noninvasive work activity.
Class II	1. Perform only limited dust work and/or activities designed for basic facilities and engineering work. 2. Perform limited dust and invasive work following standing precautions procedures approved by the organization. 3. This Class of Precautions must never be used for construction or renovation activities.
Class III	1. Provide active means to prevent airborne dust dispersion into the occupied areas. 2. Means for controlling minimal dust dispersion may include hand-held HEPA vacuum devices, polyethylene plastic containment, or isolation of work area by closing room door. 3. Remove or isolate return air diffusers to avoid dust from entering the HVAC system. 4. Remove or isolate the supply air diffusers to avoid positive pressurization of the space, 5. If work area is contained, then it must be neutrally to negatively pressurized at all times. 6. Seal all doors with tape that will not leave residue. 7. Contain all trash and debris in the work area. 8. Nonporous/smooth and cleanable containers (with a hard lid) must be used to transport trash and debris from the construction areas. These containers must be damp-wiped cleaned and free of visible dust/debris before leaving the contained work area. 9. Install a sticky (dust collection) mat at entrance of contained work area based on facility policy. Sticky mats must be changed routinely and when visibly soiled. 10. Maintain clean surroundings when area is not contained by damp mopping or HEPA vacuuming surfaces.

Class IV	1. Construct and complete critical barriers meeting NFPA 241 requirements. Barriers must extend to the ceiling or if ceiling tile is removed, to the deck above. 2. All (plastic or hard) barrier construction activities must be completed in a manner that prevents dust release. Plastic barriers must be effectively affixed to ground and ceiling and secure from movement or damage. Apply tape that will not leave a residue to seal gaps between barriers, ceiling or floor. 3. Seal all penetrations in containment barriers, including floors and ceiling, using approved materials (UL schedule firestop if applicable for barrier type). 4. Construct anteroom large enough for equipment staging, cart cleaning, workers. The anteroom must be constructed adjacent to entrance of construction work area. 5. Personnel will be required to wear coveralls at all times during Class IV work activities. Coveralls must be removed before leaving the anteroom. 6. Containment units or environmental containment units (ECUs) approved for Class IV precautions in small areas totally contained by the unit and that has HEPA-filtered exhaust air. 7. Remove or isolate return air diffusers to avoid dust entering the HVAC system. 8. Remove or isolate the supply air diffusers to avoid positive pressurization of the space. 9. Negative airflow pattern must be maintained from the entry point to the anteroom and into the construction area. The airflow must cascade from outside to inside the construction area. The entire construction area must remain negatively pressurized. 10. Maintain negative pressurization of the entire workspace by use of HEPA exhaust air systems directed outdoors. Exhaust discharged directly to the outdoors that is 25 feet or greater from entrances, air intakes and windows does not require HEPA-filtered air. 11. If exhaust is directed indoors, then the system must be HEPA filtered. Prior to start of work, HEPA filtration must be verified by particulate measurement as no less than 99.97% efficiency and must not alter or change airflow/pressure relationships in other areas. 12. Exhaust into shared or recirculating HVAC systems, or other shared exhaust systems (e.g., bathroom exhaust) is <u>not acceptable</u>. 13. Install device (e.g., magnehelic, manometer, or digital monitoring) on exterior of work containment to continually monitor negative pressurization. The “ball in the wall” or similar apparatus are <u>not acceptable</u>. 14. Contain all trash and debris in the work area. 15. Nonporous/smooth and cleanable containers (with a hard lid) must be used to transport trash and debris from the construction areas. These containers must be damp-wiped cleaned and free of visible dust/debris before leaving the contained work area. 16. Worker clothing must be clean and free of visible dust before leaving the work area anteroom. HEPA vacuuming of clothing or use of cover suites is acceptable. 17. Workers must wear shoe covers prior to entry into the work area. Shoe covers must be changed prior to exiting the anteroom to the occupied space (non-work area). Damaged shoe covers must be immediately changed. 18. Install a sticky (dust collection) mat at entrance of contained work area based on facility policy. Sticky mats must be changed routinely and when visibly soiled. 19. Consider collection of particulate data during work to monitor and ensure that contaminates do not enter the occupied spaces. Routine collection of particulate samples may be used to verify HEPA filtration efficiencies.

Minimum Required Infection Control Precautions Upon Completion of Work Activity

Class of Precautions	Mitigation Activities (Performed upon Completion of Work Activity)
Classes I, II and III	Cleaning: 1. Clean work areas including all environmental surfaces, high horizontal surfaces and flooring materials. 2. Check all supply and return air registers for dust accumulation on upper surfaces as well as air diffuser surfaces. HVAC Systems: 1. Remove isolation of HVAC system in areas where work is being performed. Verify that HVAC systems are clean and operational. 2. Verify the HVAC systems meet original airflow and air exchange design specifications.
Classes III, IV	Class III (Type C Activities only) and IV, precautions require inspection and documentation for downgraded ICRA precautions. Construction areas must be inspected by an infection preventionist or designee and engineering representative for discontinuation or downgrading of ICRA precautions. Work Area Cleaning: 1. Clean work areas including all environmental surfaces, high horizontal surfaces and flooring materials. 2. Check all supply and return air registers for dust accumulation on upper surfaces as well as air diffuser surfaces. Removal of Critical Barriers: 1. Critical barriers must remain in place during all work involving drywall removal, creation of dust and activities beyond simple touch-up work. The barrier may NOT be removed until a work area cleaning has been performed. 2. All (plastic or hard) barrier removal activities must be completed in a manner that prevents dust release. Use the following precautions when removing hard barriers: i. Carefully remove screws and painter tape. ii. If dust will be generated during screw removal, use hand-held HEPA vacuum. iii. Drywall cutting is prohibited during removal process. iv. Clean all stud tracks with HEPA vacuum before removing outer hard barrier. v. Use a plastic barrier to enclose area if dust could be generated. Negative Air Requirements: 1. The use of negative air must be designed to remove contaminates from the work area. 2. Negative air devices must remain operational at all times and in place for a period after completion of dust creating activities to remove contaminants from the work area and before removal of critical barriers. HVAC systems: 1. Upon removal of critical barriers, remove isolation of HVAC system in areas where work is being performed. 2. Verify that HVAC systems are clean and operational. 3. Verify the HVAC systems meets original airflow and air exchange design specifications.

Step 4. Identify the areas surrounding the project area, assessing potential impact

Unit Below	Unit Above	Lateral	Lateral	Behind	Front
Risk Group	Risk Group	Risk Group	Risk Group	Risk Group	Risk Group

Step 5. Identify specific site of activity e.g., patient rooms, medication room, etc.

_____

Step 6. Identify issues related to ventilation, plumbing, electrical in terms of the occurrence of probable outages.

_____

Step 7. Identify containment measures, using prior assessment. What types of barriers? (e.g., solids wall barriers); Will HEPA filtration be required?

_____

(Note: Renovation/construction area shall be isolated from the occupied areas during construction and shall be negative with respect to surrounding areas)

Step 8. Consider potential risk of water damage. Is there a risk due to compromising structural integrity? (e.g., wall, ceiling, root)

Step 9. Work hours: Can or will the work be done during non-patient care hours?

Step 10. Do plans allow for adequate number of isolation/negative airflow rooms?

Step 11. Do the plans allow for the required number & type of handwashing sinks?

Step 12. Does the infection prevention staff agree with the minimum number of sinks for this project? (Verify against AIA Guidelines for types and area)

Step 13. Does the infection control staff agree with the plans relative to clean and soiled utility rooms?

Step 14. Plan to discuss the following containment issues with the project team. e.g., traffic flow, housekeeping, debris removal (how and when)

_____

_____

_____

ATTACHMENT B: ICRA Permit

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Project #	Contractor Name:
Project Name:	Project Start Date: Click here to enter a date.
Project Manager: Contact#:	Estimated Completion Date: Click here to enter a date.
General Contractor: Contact#:	OSHPD Permit #:
IOR: Contact#:	IC Subcontractor Contact#:

	CONSTRUCTION ACTIVITY		INFECTION CONTROL RISK GROUP
	TYPE A: Inspection, non-invasive activity		GROUP 1: Low Risk
	TYPE B: Small scale, short duration, moderate to high levels		GROUP 2: Medium Risk
	TYPE C: Activity generates moderate to high levels of dust, requires more than 1 work shift for completion		GROUP 3: Medium/High Risk
	TYPE D: Major demolition and construction activities Requiring consecutive work shifts		GROUP 4: Highest Risk
	Circle required containment, all that apply Containment cube; modified cube; zip flap; Visqueen barrier; Coroplast barrier; drywall barrier, anteroom		Circle needed PPE, all that apply Shoe covers; head covers; polypropylene suits; Tyvek type suites; gloves; P100; N95

CLASS I **Date:** **Initials:**	1. Execute work by methods to minimize raising dust from construction operations. 2. Immediately replace any ceiling tile displaced for visual inspection.	3. Cleanup and disposal in accordance with defined procedures.
CLASS II **Date:** **Initials:**	1. Continue Class I requirements 2. Provides active means to prevent air-borne dust from dispersing into atmosphere 3. Water mist work surfaces to control dust while cutting. 4. Seal unused doors with vinyl tape. 5. Block off and seal air vents. 6. Wipe surfaces with approved disinfectant.	7. Contain construction waste before transport in tightly covered containers. 8. Wet mop and/or vacuum with HEPA filtered vacuum before leaving work area. **Vacuum Personnel if needed**. 9. Place dust mat at entrance and exit of work area. 10. Remove or isolate HVAC system in areas where work is being performed.
CLASS III **Date:** **Initials:**	1. Continue Class I & II requirements 2. Obtain infection control permit before construction begins. 3. Isolate HVAC system in area where work is being done to prevent contamination of the duct system. 4. Complete all critical barriers or implement control cube method before construction begins. 5. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units. 6. Seal holes, pipes, conduits, and punctures appropriately. 7. Do not remove barriers from work area until complete project is thoroughly cleaned.	8. Vacuum work area with HEPA filtered vacuums **including Personnel**, **if needed**. 9. Wet mop with approved disinfectant 10. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction. 11. Contain construction waste before transport in tightly covered Containers. 12. Cover transport receptacles or carts. Tape covering. 13. Remove or isolate HVAC system in areas where work is being performed.
CLASS IV **Date:** **Initials:**	1. Continue Class I, II & III requirements 2. Obtain infection control permit before construction begins. 3. Isolate HVAC system in area where work is being done to prevent contamination of duct system. 4. Complete all critical barriers or implement control cube method before construction begins. 5. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units. 6. **Seal holes, pipes, conduits, and punctures appropriately.** 7. Construct anteroom and require all personnel to wear PPE - coveralls and shoe covers, which are removed each time they leave the work site. If space permits use HEPA vacuum to vacuum excess dust and debris from personnel.	**8. All personnel entering work site are required to wear shoe covers** 9. Do not remove barriers from work area until completed project is thoroughly cleaned. 10. Vacuum work area with HEPA filtered vacuums. 11. Wet mop with approved disinfectant. 12. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction. 13. Contain construction waste before transport in tightly covered containers. 14. Cover transport receptacles or carts. Tape covering. 15. Remove or isolate HVAC system in areas where work is being done.

Class of Precautions: Construction Project by Patient Risk

Patient Risk Group	TYPE A	TYPE B	TYPE C	TYPE D
LOW Risk Group	**I**	**II**	**II**	**III/IV**
MEDIUM Risk Group	**I**	**II**	**III**	**IV**
HIGH Risk Group	**I**	**II**	**III/IV**	**IV**
HIGHEST Risk Group	**II**	**III/IV**	**III/IV**	**IV**

Additional Requirements: (*If scope of project changes IP*)

Exceptions /Additions to this permit are noted by attached memoranda: Date: Initials:

Permit Request By:	ICRA Authorized By:	ICRA De-permitted By:	Comments:
Date: Title:	Date: Title:	Date: Title:	
Phone:	Phone:	Phone:	

Attachment C

Required Barrier Containment & Negative Pressure Summary
ICRA & Procedure During Construction, Renovation, Repair & Demolition Activities

Type of Containment	Containment Use
ZIP FLAP	 Perimeter Barrier • Non dust generating activity • Not utilized in Critical Care or Sterile Processing Departments
PORTABLE CONTAINMENT CUBE	 Portable Containment • Minimal dust generation if controlled • Use in Critical Care and Sterile Processing Departments ONLY when approved by IP
MODIFIED CUBE	 Portable Ridged Containment • Minimal dust generation if controlled • Use in Critical Care and Sterile Processing Departments ONLY when approved by IP
FIXED BARRIER	 Fixed Ridged Containment • Major construction and renovation • Dust generating repairs and repairs that can not be completed in a single work day

ATTACHMENT D: ICRA Daily Rounds Checklist (Level 3 & 4)

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Project

Project Manager _____

Contractor _____

Rounds performed by: Print name and Initials _____

	Permitting process review	**Date/Time**	**Initial**
Permit posted			
Contractors	Dust Buster training completed		
Location			
Barrier configuration	Barrier is intact [tape secure, holding, breach, no damage]		
	Barrier should match the permit graphics		
Negative pressure	Pressure reading should be negative		
	Visual Inward pull is appropriate		
	Flex duct connected securely and properly, free of damage		
	HEPA unit in functioning acceptable condition		
Anteroom	Clean, dust free and organized		
	Trash bag available in anteroom [removed after each work shift]		
	Walk off mats available and properly maintained		
Worksite			
Site inspection	Inspect all areas of the barrier – Is the area clean at the end of shift		
Any unusual findings?	Document findings and provide details in the Notes section		
	Document Corrective Action to resolve issues in Notes section		

Days	Initial
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

Days	Initial
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	

Days	Initial
21	
22	
23	
24	
25	
26	
27	
28	
29	
30/31	

Comments: _____

Completion Acceptance (signed by PM, Engineering designee): _____Date: _____