

### Infection Control Risk Assessment (ICRA)

Project Title: 657-17-104JC & 657-17-105JC Restore Building 6/6A Utility Systems Project/WO# 657-17-104JC and 657-17-105JC

Description: Restore Utility Systems and install new finishes in identified locations.

Drawing Link: \_\_\_\_\_

COR/Frm/PM: Chad Markus

Phone: 314-652-4100 x 58724

Ctr Rep: \_\_\_\_\_

Phone: \_\_\_\_\_

Type	Construction Activities	Risk	Service Area																														
<input type="checkbox"/> <b>Type A</b>	<b>Inspection and Non-Invasive Activities.</b> Include, but are not limited to: <input type="checkbox"/> Removal of ceiling tiles for visual inspection limited to 1 tile per 50 square feet. <input type="checkbox"/> Painting (but not sanding). <input type="checkbox"/> Wall covering, electrical trim work, minor plumbing, and activities that do not generate dust or require cutting of walls or access to ceilings other than for visual inspection.	<input checked="" type="checkbox"/> <b>Low Risk</b>	Office areas; Out Doors; Electrical or Mechanical Rooms; Social Work; Retail Store; Stage, Recreation, Theater; Stairwells; Conference Rooms; Other																														
		<input type="checkbox"/> <b>Medium Risk</b>	Physical and Occupational Therapy; Outpatient Clinics; Waiting Rooms; Sleep Lab; Mental Health (outpatient only); Prosthetics / Orthotics; Domiciliary; Other																														
<input type="checkbox"/> <b>Type B</b>	<b>Small scale, short duration activities that create minimal dust.</b> Include, but are not limited to: <input type="checkbox"/> Installation of telephone and computer cabling. <input type="checkbox"/> Access to chase spaces using doors or hatches (not cutting).	<input type="checkbox"/> <b>High Risk</b>	Emergency Room; Kitchen or Food Preparation / Dining / Canteen; Echocardiography; Radiology/MRI; Respiratory Therapy; Nuclear Medicine; Senior Mental Health (In Patient or Senior); Community Living Center (CLC); Clean Supply; Other																														
<input type="checkbox"/> <b>Type C</b>	<b>Work that generates a moderate to high level of dust or requires demolition or removal of any fixed building components or assemblies.</b> Includes, but is not limited to: <input type="checkbox"/> Sanding or cutting of walls or ceilings. <input type="checkbox"/> Removal of floor coverings, ceiling tiles, and casework. <input type="checkbox"/> New wall construction. <input type="checkbox"/> Minor duct work or electrical work above ceilings. <input type="checkbox"/> Major cabling activities. <input type="checkbox"/> Any activity that cannot be completed within a single	<input type="checkbox"/> <b>Highest Risk</b>	Cardiac Cath, EP Lab or Cardiology; Sterile Processing Service (SPS); All inpatient medical or surgical units; Care Units: PACU, MICU, SICU, TCU; Spinal Cord Injury (SCI); Negative pressure isolation rooms; Outpatient chemotherapy or Oncology areas; Operating Rooms; Endoscopy; Dialysis; Bronchoscopy; Pharmacy; Clinical Laboratories; Other																														
<input checked="" type="checkbox"/> <b>Type D</b>	<b>Major demolition and construction projects.</b> Includes, but is not limited to: <input type="checkbox"/> Activities that require consecutive work shifts. <input type="checkbox"/> Requires heavy demolition or removal of a complete cabling system. <input type="checkbox"/> New construction.	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Risk Group</th> <th colspan="4" style="text-align: center;">ICRA Classification</th> </tr> <tr> <th style="text-align: left;">Const Type</th> <th style="text-align: center;">Low</th> <th style="text-align: center;">Med</th> <th style="text-align: center;">High</th> <th style="text-align: center;">Highest</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Type A</td> <td style="text-align: center;">I</td> <td style="text-align: center;">I</td> <td style="text-align: center;">I</td> <td style="text-align: center;">II</td> </tr> <tr> <td style="text-align: center;">Type B</td> <td style="text-align: center;">II</td> <td style="text-align: center;">II</td> <td style="text-align: center;">II</td> <td style="text-align: center;">III/IV</td> </tr> <tr> <td style="text-align: center;">Type C</td> <td style="text-align: center;">II</td> <td style="text-align: center;">III</td> <td style="text-align: center;">III/IV</td> <td style="text-align: center;">III/IV</td> </tr> <tr> <td style="text-align: center;">Type D</td> <td style="text-align: center;">III/IV</td> <td style="text-align: center;">IV</td> <td style="text-align: center;">IV</td> <td style="text-align: center;">IV</td> </tr> </tbody> </table>	Risk Group	ICRA Classification				Const Type	Low	Med	High	Highest	Type A	I	I	I	II	Type B	II	II	II	III/IV	Type C	II	III	III/IV	III/IV	Type D	III/IV	IV	IV	IV	
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**During construction, perform following daily:**

**Upon completion, performed the following:**

1. Execute work by methods to minimize dust dispersal from minor flooring or surface disruptions. 2. For visual inspection only, dampen ceiling tile with water spray before removing. Replace a ceiling tile immediately after inspection; do not leave unattended.	1. Clean up ceiling tile and flooring surfaces below with HEPA filtered vacuum or damp mop.	Class I
3. Provide active means to prevent dust from dispersing. Dust left on the floors, clothing and/or body is not allowed in order to prevent spreading and tracking. "Active means" are: a. Vacuum attachments on tools with HEPA vacuum when generating dust, or b. HEPA vacuuming immediately as the dust is generated. c. Remove or isolate HVAC system in areas where work is being performed. d. Water mist work surfaces to control dust while cutting. e. Seal unused doors with duct tape. f. Block off and seal all HVAC air vents. g. Place +tacky mat at inside of entrance of work area and change frequently or when ineffective. h. Wet mop and/or vacuum with +HEPA-filtered vacuum the work area before leaving the site. Brooming is not sufficient. 4. Whenever transporting outside of construction site, wipe materials, equipment and work surfaces with EPA registered, unscented +disinfectant, which has manufacturer's labeling as a bactericide, tuberculocide, virucide, and fungicide. 5. There shall be no standing, uncovered water during construction. This includes water in equipment drip pans and open containers within the construction areas. All accidental spills must be cleaned up and dried within 12 hours. Remove and dispose of porous materials that remain damp for more than 72 hours.	2. Wet mop and/or vacuum with HEPA-filtered vacuum before leaving work area and wipe work surfaces with disinfectant. 3. Contain construction waste before transport in tightly covered containers. Tape may be used to ensure a tight cover. 4. Remove isolation of HVAC system in areas when work and area cleanup has been completed.	Class II
6. Complete all critical barriers, i.e., sheetrock, plywood, plastic, to seal area from non-work area or implement control cube method before construction begins. 7. Maintain Negative Pressure Ventilation (NPV) at 0.01" Water Column (WC) within the work site utilizing NPV machine. 8. NPV monitoring devices should be visible from outside the worksite and readings shall be documented daily or more often as needed. Keep tracking monitoring device and tracking log at outside of entrance at the site. 9. Contain construction waste before transport in tightly covered containers. Tape covering, unless using form-fitting solid lid.	5. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction. 6. Do not remove barriers from work area until completed project is thoroughly and inspected by COR, Safety and Infection Control.	Class III
10. Seal holes, pipes, conduits, and punctures. 11. Construct anteroom and require all personnel to pass through this room to be vacuumed using a HEPA vacuum cleaner before leaving work site OR they can wear cloth or paper coveralls that are removed each time they leave the work site. 12. All personnel entering work site are required to wear shoe covers. Shoe covers must be changed each time the worker exits the work area.	All above	Class IV

**ICRA - Operations Steps**

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<b>Identify the areas surrounding the project area, assessing potential impact.</b>	
<i>Unit Below</i>	Out Doors
<i>Unit Above</i>	Out Doors
<i>East</i>	Out Doors
<i>West</i>	Out Doors
<i>North</i>	Out Doors
<i>South</i>	Out Doors

  

<i>Risk Group:</i>	Low Risk
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**Identify impact issues (probable disruptions/outages, and describe their corresponding corrective actions).**

Noise:	n/a
HVAC:	n/a
Plumbing:	n/a
Potable Water:	n/a
Electrical:	n/a

Is the work area in or adjacent to an isolation room? NO

**Identify containment measures:**

Barrier Types:	No Walls
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*Note: Renovation/construction area*

- shall be isolated from the occupied areas during const. and shall be negative with respect to surrounding areas.
- boundary shared with public or patient care areas must have hard walls.
- using hard walls must use door with door closer and lock; otherwise, plastic walls may use zipper door.

**Is there a risk of compromising structural integrity (e.g., wall, ceiling, etc.) due to potential of water damage?**

NO

**Does the work need to be performed during patient-care hours?**

NO

**Does this work remove any of the following from service?**

-isolation/negative airflow rooms?	NO
-hand hygiene sinks?	NO
-clean or soiled utility rooms ?	NO

**Identify containment issues with the project team: traffic flow, housekeeping, and debris removal (if not on dwg). Also, Insert any EXCEPTIONS or ADDITIONS to above items here.**

Building is unoccupied and will require anteroom at entrance to construction site. Project site shall be under negative pressure to reduce exposure to pedestrians passing by. Abatement activities will follow abatement work plan.

X

PM/COR/Shop Representative

X

Infection Prevention Representative

## Interim Life Safety Measures (ILSM)

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<b>A. EXITS:</b> Does the project/repair have the potential of affecting an exit or other means of egress?		Yes / No <input type="radio"/> / <input checked="" type="radio"/>
Will the affected exit be used by other than the contractor's/maintenance personnel?		<input type="radio"/> / <input checked="" type="radio"/>
<b>Required Actions:</b> An alternate exit must be designated and training is required for those persons affected. Safety office will conduct/coordinate training. Means of exiting construction/repair areas must be inspected and documented by contractor/shop designee on a daily basis to prevent blockages due to debris.	<b>Specific Actions</b> (confirm with Safety Dept):	
<b>B. EMERGENCY ACCESS:</b> Does the project/repair have the potential of obstructing access for fire department vehicles, fire fighters, suppression connections, hydrants, or fire lanes?		Yes / No <input type="radio"/> / <input checked="" type="radio"/>
<b>Required Actions:</b> An alternate means of access must be designated and the St. Louis City (JC)/St. Louis County (JB) Fire Department and VA Police must be notified by the Safety Office of the alternative.	<b>Specific Actions</b> (confirm with Safety Dept):	
<b>C. FIRE PROTECTION:</b> Does the project/repair have the potential of impairing existing fire alarm, detection, or suppression systems?		Yes / No <input type="radio"/> / <input checked="" type="radio"/>
Will temporary fire protection systems be required as part this project/repair?		<input type="radio"/> / <input checked="" type="radio"/>
<b>Required Actions:</b> If a fire protection or alarm system is to be rendered non-operational for more than 4 hours out of a 24-hour period, either a substitute system or a fire watch must be initiated. If neither of these methods can be implemented, the area must be closed down and evacuated. All of these measures must be coordinated with the Safety Office, VA Police, and the affected staff.	<b>Specific Actions</b> (confirm with Safety Dept):	
<b>D. TEMPORARY PARTITIONS:</b> Will construction involve the use of temporary fire or smoke partitions or barriers?		Yes / No <input type="radio"/> / <input checked="" type="radio"/>
<b>Required Actions:</b> If construction/repair involves major breaches in fire or smoke barriers, the contractor must erect temporary walls around the construction area to have fire and smoke ratings equal, or better, to the barrier rating that has been compromised.	<b>Specific Actions</b> (confirm with Safety Dept):	
<b>E. ADDITIONAL FIRE FIGHTING EQUIPMENT AND TRAINING:</b> Does the area affected by the project warrant placement of additional fire protection equipment?		Yes / No <input type="radio"/> / <input checked="" type="radio"/>
Will additional firefighting training be required by affected personal?		<input type="radio"/> / <input checked="" type="radio"/>
<b>Required Actions:</b> If the fire load of a particular area is significantly increased over normal due to construction, additional firefighting equipment (such as fire extinguishers) will be required. If any of this additional firefighting equipment is of a different type than that already available in the affected area, training in the use of this equipment for staff or contractor personnel is required.	<b>Specific Actions</b> (confirm with Safety Dept):	
<b>F. SMOKING POLICY:</b> Will variance to existing medical center smoking policy be permitted?		Yes / No <input type="radio"/> / <input checked="" type="radio"/>
<b>Required Actions:</b> If designated smoking areas are impacted or closed due to construction, temporary areas may need to be established.	<b>Specific Actions</b> (confirm with Safety Dept):	
<b>G. COMBUSTIBLE LOAD LEVELS:</b> Does the project involve the storage of flammable or combustible materials?		Yes / No <input type="radio"/> / <input checked="" type="radio"/>
Does the project have the potential for creating flammable or combustible debris?		<input type="radio"/> / <input checked="" type="radio"/>
<b>Required Actions:</b> Surveillance of construction sites will need to be increased to prevent the accumulation of excess flammable or combustible debris. The fire load of the construction area must be kept to a minimum.	<b>Specific Actions</b> (confirm with Safety Dept):	
<b>H. FIRE DRILLS:</b> Does the project warrant additional fire drills within the affected areas?		Yes / No <input type="radio"/> / <input checked="" type="radio"/>
<b>Required Actions:</b> If the life safety features of a particular area are adversely impacted by construction, then the frequency of fire drills must be increased to two per shift per quarter for healthcare/lodger occupancies. Adverse impacts would include blocked fire exits, impaired fire alarm or sprinkler systems, or major compromises in fire or smoke barriers or compartments.	<b>Specific Actions</b> (confirm with Safety Dept):	

**Interim Life Safety Measures (ILSM) (con't)**

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<b>I. HAZARD SURVEILLANCE:</b> Does the project present additional hazards, such as excavations, construction storage or field offices, crane work, high voltage, confined spaces, scaffolding, etc., which warrant increased hazard surveillance?		Yes / No <input type="radio"/> <input checked="" type="radio"/>
<u>Required Actions:</u> If yes, then a Qualified Person as defined by OSHA must perform the work and additional project surveillance is warranted to identify potential life safety issues.	<u>Specific Actions</u> (confirm with Safety Dept):	
<b>J. OCCUPATIONAL HEALTH ISSUES:</b> Do construction workers need to be restricted to dedicated corridors, elevators, or exits?		Yes / No <input type="radio"/> <input checked="" type="radio"/>
Is special ventilation required for the area during construction?		<input type="radio"/> <input checked="" type="radio"/>
Will any disruptions of the water/plumbing system affect the purity of potable water?		<input type="radio"/> <input checked="" type="radio"/>
Will the construction activities be hazardous to immune-compromised patients?		<input type="radio"/> <input checked="" type="radio"/>
<u>Required Actions:</u> Any construction activities that adversely affect occupational health issues must be reviewed to minimize the effects. If negative pressurization is required for "special ventilation", then include a daily reporting of the pressure measurement as part of the the daily ILSM log.	<u>Specific Actions</u> (confirm with Safety Dept):	
<b>K. ADDITIONAL PERSONNEL TRAINING:</b> Does the project have the potential of affecting structural features of the fire safety systems?		Yes / No <input type="radio"/> <input checked="" type="radio"/>
Does the project have the potential of affecting compartmentalization features of the fire safety systems?		<input type="radio"/> <input checked="" type="radio"/>
Does the project have the potential for negatively affecting infection control procedures?		<input type="radio"/> <input checked="" type="radio"/>
<u>Required Actions:</u> Affected personnel must be notified when fire safety systems or infection control procedures are compromised and trained in temporary changes in procedures to compensate for the impaired systems. Examples are the need for alternate fire exits, alarm or sprinkler systems or to evacuate behind secondary fire barriers or compartments due to fire or smoke partition compromises.	<u>Specific Actions</u> (confirm with Safety Dept):	
<b>L. FACILITY-WIDE TRAINING:</b> Does the project present life safety code deficiencies or construction hazards which warrant facility-wide education of personnel concerning the interim life safety measures?		Yes / No <input type="radio"/> <input checked="" type="radio"/>
Does the project present occupational health deficiencies which warrant facility-wide education of personnel concerning those procedures?		<input type="radio"/> <input checked="" type="radio"/>
<u>Required Actions:</u> Training must be provided facility wide to educate staff, patients and visitors to any life safety system that is impaired throughout the entire building. In addition, the St. Louis City (JC)/St. Louis County (JB) Fire Department and VA Police will be notified.	<u>Specific Actions</u> (confirm with Safety Dept):	

**X**

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Safety Dept Representative