

## Attachments B: Infection Control Risk Assessment ICRA (3 pages)

**Infection Control Risk Assessment  
Matrix of Precautions for Construction & Renovation**

**PROJECT NAME:** WH Emergency 800 Ton Chiller Replacement

**Scope** Replace existing chiller in B16A

**STEP ONE:** Using the following table, identify the Type of Construction Activity

<b>TYPE A</b>	<u>Inspection and Non-Invasive Activities.</u> Includes, but is not limited to: <ul style="list-style-type: none"> <li>Removal of ceiling tiles for visual inspection limited to 1 tile per 50 square feet.</li> <li>Painting (but not sanding).</li> <li>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.</li> </ul>
<b>TYPE B</b>	<u>Small scale, short duration activities that create minimal dust.</u> Includes, but is not limited to: <ul style="list-style-type: none"> <li>Installation of telephone and computer cabling.</li> <li>Access to chase spaces.</li> <li>Cutting of walls or ceiling where dust migration can be controlled.</li> </ul>
<b>TYPE C</b>	<u>Work that generates a moderate to high level of dust or requires demolition or removal of any fixed building components or assemblies.</u> Includes, but is not limited to: <ul style="list-style-type: none"> <li>Sanding of walls for painting or wall covering</li> <li>Removal of floor coverings, ceiling tiles and casework.</li> <li>New wall construction.</li> <li>Minor duct work or electrical work above ceilings.</li> <li>Major cabling activities.</li> <li>Any activity that cannot be completed within a single work shift.</li> </ul>
<b>TYPE D</b>	<u>Major demolition and construction projects.</u> Includes, but is not limited to: <ul style="list-style-type: none"> <li>Activities that require consecutive work shifts.</li> <li>Requires heavy demolition or removal of a complete cabling system.</li> <li>New construction.</li> </ul>

**Step One Determination:** TYPE [ C ]

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

Low Risk	Medium Risk	High Risk	Highest Risk
Office areas IT spaces	Blind Rehabilitation Nuclear Medicine Physical Therapy Primary Care Clinics Radiology/MRI Respiratory Therapy	Cardiology Clinical Labs Echocardiography Endoscopy Emergency Room CLC (T3W) Pharmacy	Bronchoscopy Cardiac Cath Lab All intensive care and medical/surgical units Interventional Radiology Operating Rooms (OR) & One Day Surg (APU) Outpatient chemotherapy infusion units PACU SPD (Sterile Processing & Decontamination)

**Step Two Determination:** RISK = Low

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

**Project/ Construction Class : CLASS II**

## DESCRIPTION OF REQUIRED INFECTION CONTROL PRECAUTIONS BY CLASS

	During Construction Project	Upon Completion of Project
<b>CLASS I</b>	<ol style="list-style-type: none"> <li>1. Execute work by methods to minimize raising dust from construction operations.</li> <li>2. Immediately replace a ceiling tile displaced for visual inspection</li> </ol>	
<b>CLASS II</b>	<ol style="list-style-type: none"> <li>1. Remove or isolate HVAC system in areas where work is being performed to prevent contamination of duct system</li> <li>2. Provide active means to prevent airborne dust from dispersing into atmosphere (plastic cube controls, etc)</li> <li>3. Water mist work surfaces to control dust</li> <li>4. Seal unused doors with duct tape as needed.</li> <li>5. Block off and seal air vents.</li> <li>6. Place dust mat at entrance and exit of work area. Change mats when no longer effective.</li> <li>7. Contain construction waste before transport in tightly covered containers. Tape covering unless solid lid.</li> </ol>	<ol style="list-style-type: none"> <li>1. Upon completion of project, contain construction waste before transport in tightly covered containers.</li> <li>2. Vacuum area with HEPA filtered vacuum before leaving work area and /or wet mop work and adjacent surfaces with disinfectant.</li> <li>3. Remove isolation of HVAC system in areas where work was being performed.</li> </ol>
<b>CLASS III</b>	<p>As above and:</p> <ol style="list-style-type: none"> <li>1. Complete all critical barriers (i.e., sheetrock, plywood, plastic) to seal area from non-work area or implement control cube method (cart with plastic covering and sealed connection to work site with HEPA vacuum for vacuuming prior to exit) before construction begins.</li> <li>2. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units. Perform continuous monitoring with specified devices and document on log daily or more often as needed.</li> <li>3. It is recommended that personnel entering work site should wear shoe covers. Shoe covers must be changed each time the worker exits the work area.</li> <li>4. Tacky mat is required outside work area</li> </ol>	<ol style="list-style-type: none"> <li>1. Contain construction waste before transport in tightly covered containers. Tape covering unless solid lid.</li> <li>2. Vacuum with HEPA filtered vacuum before leaving work area and wet mop work and adjacent surfaces with disinfectant.</li> <li>3. Remove isolation of HVAC system in areas where work was being performed.</li> <li>4. Do not remove barriers from work area until project is thoroughly cleaned by the owner's EMS and inspected by the Safety Department and Infection Control Department.</li> </ol>
<b>CLASS IV</b>	<p>As above and :</p> <ol style="list-style-type: none"> <li>1. Isolate HVAC system in area where work is being done to prevent contamination of duct system.</li> <li>2. Complete all critical barriers, i.e., sheetrock, plywood, plastic, to seal area from non-work area or implement control cube method before construction begins.</li> <li>3. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units.</li> <li>4. Seal holes, pipes, conduits and punctures appropriately.</li> <li>5. Construct anteroom and require all personnel to pass through this room so they can 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.</li> <li>6. All personnel entering work site are required to wear shoe covers. Shoe covers must be changed each time the worker exits the work area.</li> <li>7. Do not remove barriers from work area until completed project is inspected by the owner's Safety Department and Infection Control Department, and thoroughly cleaned</li> </ol>	<ol style="list-style-type: none"> <li>1. Remove barrier material carefully to minimize spreading of dirt and debris associated with construction.</li> <li>2. Cover transport receptacles or carts. Tape covering unless solid lid.</li> <li>3. Vacuum work area with HEPA filtered vacuums.</li> <li>4. Wet mop area with disinfectant.</li> <li>5. Remove isolation of HVAC system in areas where work is being performed.</li> </ol>

**Step 4: Identify areas surrounding the project area, assessing potential impact ( above, below, behind, front, lateral)**

	Above	Below	Lateral
Area(s)	Cooling towers	NA	Large Back Parking lot ??
Impact	Noise, dust, water spillage		

**Step 5: Utility Outages Impacting Infection Control (Mark all that apply),**

- 1) No impact to electrical or potable water
- 2) AC Cooling for entire hospital will be affected for 4-6 hours, except OR (1-3), IRM
- 3) To minimize disruption of services, activity will be done:
  - a. Weekend night (s)
  - b. Middle of nightshift to maintain cooling of individual rooms
  - c. Will attempt to do on a cooler temp night

**Step 6: Identify site(s) of activity (e.g., patient's rooms, medication rooms, etc)=NA**

**Step 7: Additional Comments**

- 1) Overall activity will be completed within ~week'
- 2) Dust will be kept to a minimum with water ,
- 3) Asbestos precautions will be addressed with safety

<b>Infection Control Approval</b>	
Signature: <i>Bobbie Welch, IC Mgr</i>	Date :August 19, 2011
<b>COTR</b>	
Signature: <i>HARRY LOWELL, COTR</i>	Date: September 27, 2011
<b>Contractor (if applicable)</b>	
Signature:	Date