

Attachments: Infection Control Risk Assessment ICRA

**PROJECT NAME: IRM HVAC 689-11-112 Matrix of Precautions for Construction & Renovation**Scope **Upgrade HVAC system controls in 3 computer /communication closets or rooms as follows**

(1) B1 SG105, (2) B5 C103, (3) B2 G100

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

|        |  |
|--------|--|
| TYPE A | <u>Inspection and Non-Invasive Activities.</u><br><b>Includes, but is not limited to:</b> <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>  |
| TYPE B | <u>Small scale, short duration activities that create minimal dust.</u><br><b>Includes, but is not limited to:</b> <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>   |
| TYPE C | <u>Work that generates a moderate to high level of dust or requires demolition or removal of any fixed building components or assemblies.</u><br><b>Includes, but is not limited to:</b> <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> |
| TYPE D | <u>Major demolition and construction projects.</u><br><b>Includes, but is not limited to:</b> <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 [ B ]**

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<br>IT spaces | Blind Rehabilitation<br>Nuclear Medicine<br>Physical Therapy<br>Primary Care Clinics<br>Radiology/MRI<br>Respiratory Therapy | Cardiology<br>Clinical Labs<br>Echocardiography<br>Endoscopy<br>Emergency Room<br>CLC (T3W)<br>Pharmacy | Bronchoscopy<br>Cardiac Cath Lab<br>All intensive care and medical/surgical units<br>Interventional Radiology<br>Operating Rooms (OR) & One Day Surg (APU)<br>Outpatient chemotherapy infusion units<br>PACU<br>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   |
|-----------|---|--|
| CLASS I   | <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>  |  |
| CLASS II  | <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 <b>dust mat</b> 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>  |
| CLASS III | <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 <b>shoe covers</b>. 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> |

|          |                |   |
|----------|----------------|---|
| CLASS IV | As above and : | <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) | Hallways & vacant areas | Crawl space | Freezer farm (vacant NOW) |
| Impact  | No impact               | No impact   | Minimal                   |

**Step 5: Identify site(s) of activity** (e.g., patient's rooms, medication rooms, etc)

As above

**Step 6: Additional Comments**

(1) See Class II yellowed items

(2) Use of plastic barriers if freezer farm is functioning

|  |                             |
|--|-----------------------------|
| <b>Infection Control Approval</b>      |                             |
| Signature: <i>Bobbie Welch, IC Mgr</i> | Date : <b>June 14, 2011</b> |
| <b>COTR</b>                            |                             |
| Signature: <i>Harry Lovett, COTR</i>   | Date <b>June 27, 2011</b>   |
| <b>Contractor (if applicable)</b>      |                             |
| Signature:                             | Date                        |