

Project: O.R. Expansion

Project No.: 646-09-131

Subject: ICRA – Phase 1

Date: June 10, 2013

Construction Project Activity: Type D – Major demolition and construction

Includes, but not limited to:

- Activities that require consecutive work shifts.
- Requires demolition and removal of infrastructure and environmental systems.
- New construction.

Patient Risk Groups:

- **Low Risk** – Office areas
- **High Risk** – Post Anesthesia Care Unit
- **Highest Risk** – Intensive Care Units and Negative pressure isolation rooms

Class of Precautions: Class IV – See attached page.

Patient Risk Groups (Surrounding Project Area):

- **Unit Below** Low Risk (Mechanical and Office) Medium Risk (Exam)
- **Unit Above** Low Risk (Roof)
- **Lateral** Low Risk (Exterior)
- **Lateral** High Risk (Post Anesthesia Care Unit)
- **Behind** Low Risk (Exterior)
- **Front** Highest Risk (Intensive Care Unit & Negative pressure isolation rooms)

Site(s) of Activity:

- Medical Intensive Care Unit (S.I.C.U.)
- Corridor

MEP Outages:

Service to surrounding areas shall not be interrupted.

Containment Measures:

Provide dust proof, non-rated or fire-rated, temporary drywall construction barriers to completely separate construction from the operational areas of the hospital in order to contain dirt debris and dust. Barriers shall be sealed and made presentable on hospital occupied side. Install a self-closing rated door in a metal frame, commensurate with the partition, to allow worker access. Maintain negative air at all times. A fire retardant polystyrene, 6-mil thick or greater plastic barrier meeting local fire codes may be used where dust control is the only hazard, and an agreement is reached with the Contracting Officers Representative and Medical Center.

HEPA filtration is required where the exhaust dust may reenter the breathing zone. Contractor shall verify that construction exhaust to exterior is not reintroduced to the medical center through intake vents, or

building openings. Install HEPA (High Efficiency Particulate Accumulator) filter vacuum system rated at 95% capture of 0.3 microns including pollen, mold spores and dust particles. Insure continuous negative air pressures occurring within the work area. HEPA filters should have ASHRAE 85 or other pre-filter to extend the useful life of the HEPA. Provide both primary and secondary filtrations units. Exhaust hoses shall be heavy duty, flexible steel reinforced and exhausted so that dust is not reintroduced to the medical center.

Refer to specification section 01 00 00 GENERAL REQUIREMENTS for a complete description of Infection Prevention Measures.

Risk of Water Damage:

There is a slight potential risk of water damage due to roof penetrations for roof top unit supports, roof mounted supply and return ducts and roof mounted chilled water and steam piping.

Work Hours:

Majority of activity shall be completed first shift. Corridor work shall be completed second or third shift.

Containment Issues:

Traffic Flow – Regular patient traffic shall be routed to avoid areas of activity.

Housekeeping – Housekeeping traffic shall be routed to avoid areas of activity.

Construction Material, Equipment and Tools – When, approved by Contracting Officers Representative, all equipment, tools, material, etc. transported through occupied areas shall be made free from dust and moisture by vacuuming and wipe down. Equipment, tools, material, etc. shall be transported at the beginning and end of each day.

Debris Removal – Debris shall be removed from areas of activity by trash chute located at north side of building. Debris shall be removed at the end of each day. When, approved by Contracting Officers Representative, debris shall be hauled in enclosed dust proof containers or wrapped in plastic and sealed with duct tape. No sharp objects should be allowed to cut through the plastic. Wipe down the exterior of the containers with a damp rag to remove dust. Debris shall be removed at the end of each day.

Permit: See attached template.

Infection Control Construction Permit						
					Permit No:	
Location of Construction:				Project Start Date:		
Project Coordinator:				Estimated Duration:		
Contractor Performing Work				Permit Expiration Date:		
Supervisor:				Telephone:		
YES	NO	CONSTRUCTION ACTIVITY	YES	NO	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 greater 1 work shift for completion			GROUP 3: Medium/High Risk	
		TYPE D: Major duration and construction activities Requiring consecutive work shifts			GROUP 4: Highest Risk	
CLASS I		<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> 1. Execute work by methods to minimize raising dust from construction operations. 2. Immediately replace any ceiling tile displaced for visual inspection. </div> <div style="width: 48%;"> 3. Minor Demolition for Remodeling </div> </div>				
CLASS II		<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> 1. Provides active means to prevent air-borne dust from dispersing into atmosphere 2. Water mist work surfaces to control dust while cutting. 3. Seal unused doors with duct tape. 4. Block off and seal air vents. 5. Wipe surfaces with cleaner/disinfectant. </div> <div style="width: 48%;"> 6. Contain construction waste before transport in tightly covered containers. 7. Wet mop and/or vacuum with HEPA filtered vacuum before leaving work area. 8. Place dust mat at entrance and exit of work area. 9. Isolate HVAC system in areas where work is being performed; restore when work completed. </div> </div>				
CLASS III		<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> 1. Obtain infection control permit before construction begins. 2. Isolate HVAC system in area where work is being done to prevent contamination of the duct system. 3. Complete all critical barriers or implement control cube method before construction begins. </div> <div style="width: 48%;"> 6. Vacuum work with HEPA filtered vacuums. 7. Wet mop with cleaner/disinfectant 8. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction. 9. Contain construction waste before transport in tightly covered containers. </div> </div>				
Date		<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> 4. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units. 5. Do not remove barriers from work area until complete project is checked by Infection Prevention & Control and thoroughly cleaned by Environmental Services. </div> <div style="width: 48%;"> 10. Cover transport receptacles or carts. Tape covering. 11. Upon completion, restore HVAC system where work was performed. </div> </div>				
Initial						
CLASS IV		<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> 1. Obtain infection control permit before construction begins. 2. Isolate HVAC system in area where work is being done to prevent contamination of duct system. 3. Complete all critical barriers or implement control cube method before construction begins. 4. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units. 5. Seal holes, pipes, conduits, and punctures appropriately. 6. 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. 7. All personnel entering work site are required to wear shoe covers. </div> <div style="width: 48%;"> 8. Do not remove barriers from work area until completed project is checked by Infection Prevention & Control and thoroughly cleaned by Environmental Services. 9. Vacuum work area with HEPA filtered vacuums. 10. Wet mop with disinfectant. 11. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction. 12. Contain construction waste before transport in tightly covered containers. 13. Cover transport receptacles or carts. Tape covering. 14. Upon completion, restore HVAC system where work was performed. </div> </div>				
Date						
Initial						
Additional Requirements:						
Date Initials			Exceptions/Additions to this permit are noted by attached memoranda			
Permit Request By:			Permit Authorized By:			
Date:			Date:			

Description of Required Infection Control Precautions by Class

During Construction Project		Upon Completion of Project	
CLASS I	<ol style="list-style-type: none"> 1. Execute work by methods to minimize raising dust from construction operations. 2. Immediately replace a ceiling tile displaced for visual inspection 		<ol style="list-style-type: none"> 1. Clean work area upon completion of task.
CLASS II	<ol style="list-style-type: none"> 1. Provide active means to prevent airborne dust from dispersing into atmosphere. 2. Water mist work surfaces to control dust while cutting. 3. Seal unused doors with duct tape. 4. Block off and seal air vents. 5. Place dust mat at entrance and exit of work area 6. Remove or isolate HVAC system in areas where work is being performed. 		<ol style="list-style-type: none"> 1. Wipe work surfaces with cleaner/disinfectant. 2. Contain construction waste before transport in tightly covered containers. 3. Wet mop and/or vacuum with HEPA filtered vacuum before leaving work area. 4. Upon completion, restore HVAC system where work was performed.
CLASS III	<ol style="list-style-type: none"> 1. Remove or Isolate HVAC system in area where work is being done to prevent contamination of duct system. 2. 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. 3. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units. 4. Contain construction waste before transport in tightly covered containers. 5. Cover transport receptacles or carts. Tape covering unless solid lid. 		<ol style="list-style-type: none"> 1. Do not remove barriers from work area until completed project is inspected by the owner's Safety Department and Infection Prevention & Control Department and thoroughly cleaned by the owner's Environmental Services Department. 2. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction. 3. Vacuum work area with HEPA filtered vacuums. 4. Wet mop area with cleaner/disinfectant. 5. Upon completion, restore HVAC system where work was performed.
CLASS IV	<ol style="list-style-type: none"> 1. Isolate HVAC system in area where work is being done to prevent contamination of duct system. 2. 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. 3. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units. 4. Seal holes, pipes, conduits, and punctures. 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 work site. 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. 		<ol style="list-style-type: none"> 1. Do not remove barriers from work area until completed project is inspected by the owner's Safety Department and Infection Prevention & Control Department and thoroughly cleaned by the owner's Environmental Services Dept. 2. Remove barrier material carefully to minimize spreading of dirt and debris associated with construction. 3. Contain construction waste before transport in tightly covered containers. 4. Cover transport receptacles or carts. Tape covering unless solid lid. 5. Vacuum work area with HEPA filtered vacuums. 6. Wet mop area with cleaner/disinfectant. 7. Upon completion, restore HVAC system where work was performed.