Infection Control Risk Assessment Guidelines – VA San Diego Healthcare System

Identify the Type of Construction Project Activity (Types A-D)

Α	Non-invasive activities, including, but not limited to:
	a. Removal of ceiling tiles where no dust or asbestos is expected
	b. Painting, but not sanding
	c. Wall covering, electrical trim work, minor plumbing, and activities which do not generate dust or require cutting of walls or access to ceilings other than for visual inspection
В	Small scale, short duration activities which create minimal dust, including but not limited to:
	a. Installation of electrical, plumbing, HVAC, telephone and computer cabling
	b. Access to chase spaces where asbestos is not present
	c. Cutting of walls or ceiling where dust migration can be controlled.
С	Work that generates a moderate to high level of dust or requires demolition or removal of any fixed building components
	or assemblies, including but not limited to:
	a. Sanding of surfaces for painting or wall covering
	b. Removal of floor coverings, ceiling tiles, and casework
	c. New wall construction
	d. Minor duct work or electrical work above ceilings
	e. Major cabling activities
	f. Any type A, B or C activity that cannot be completed within a single work shift.
D	Major demolition and construction projects, including but not limited to:
_	a. Activities requiring heavy demolition or removal of a complete utility or cabling system
	b. New construction and renovation.
	c. Friable asbestos and mold abatement projects.

Identify the Patient Risk Group that will be affected. If more than one risk group will be affected, select the higher group. For all construction classes, patients must be removed from the room while work is performed.

Low	Medium	High	Highest Risk			
All outpatient clinics, offices areas, administrative and industrial spaces.	All non-critical inpatient areas. cardiology, echocardiography,	DOU, emergency room, clinical laboratory, wet lab research,	Immunocompromised patient area, cath lab, SPD, ICU, occupied, negative			
	endoscopy, nuclear medicine, rehabilitation medicine, radiology, MRI, respiratory therapy, dry research labs.	ambulatory surgery, pharmacy, surgical and medical inpatient beds, procedure center.	pressure rooms, PACU operating rooms.			

Match the Patient Risk Group with the Construction Project Type (A, B, C, D) to find the Class of Precautions (I – V) Construction Project Type

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Patient Risk Group	Type A	Type B	Type C	Type D \
Low Risk	I	11	Ш	<u>v</u> \
Medium Risk	I	II.	IV	v '
High Risk	I	11	IV	V
Highest Risk	II	III	V	V

Description of Required Infection Control Precautions by <u>Class</u>
During Construction Project Upon Completion of Project

Class		During Construction Project	•	Upon Completion of Project
Class I	1.	Execute work by methods to minimize raising dust from		
0.000		construction operations.		
	2.	Immediately replace ceiling tile if displaced.		
Class II	1.	High Risk patients must remain out of room for one hour after	1.	Remove all visible debris with a wet towel and/or mop.
0.000		completion of work and cleanup.	2.	Housekeeping to wipe work surfaces and floors with disinfectant.
	2.	Execute work by methods to minimize raising dust.		
	3.	Immediately replace ceiling tile if displaced.		
Class III	1.	Execute work by methods to minimize raising dust.	1.	Cover construction waste before transport in covered containers.
Oluss III	2.	Immediately replace ceiling tile if displaced	2.	Wet mop and/or vacuum with HEPA filtered vacuum before leaving work
	3.	Provide active means to prevent airborne dust from dispersing		area.
		into atmosphere.	3.	Open previously sealed HVAC registers and grills.
	4.	Water-mist work surfaces to control dust while cutting.	4.	Housekeeping to wipe work surfaces and floors with disinfectant.
	5.	Seal unused doors with duct tape.	•	The action of the state of the
	6.	Isolate HVAC system in areas where work is being performed to		
		prevent contamination of duct system.		
	7.	Place dust mat at entrance and exit of work area.		
	8.	Cover construction waste before transport in covered		
		containers		
Class IV	1.	Install plastic dust barriers to seal area from non-work area or	1.	Cover construction waste before transport in covered containers.
Olass IV		implement control cube method (cart with plastic covering and	2.	Wet mop and vacuum with HEPA filtered vacuum.
		sealed connection to work site with HEPA vacuum for	3.	Do not remove barriers from work area until a Health System responsible
		vacuuming prior to exit) before construction begins.	٥.	person inspects completed project.
	2.	Isolate HVAC system in areas where work is being performed to	4.	Remove barrier materials carefully to minimize spread of dirt and debris
		prevent contamination of duct system.	•	associated with construction.
	3.	Maintain negative pressure within work site utilizing HEPA	5.	Wet mop and vacuum with HEPA filtered vacuum before leaving work
		equipped air filtration units.		area.
	4.	Place dust mat at entrance and exit of work area.	6.	Remove isolation of HVAC system in areas where work was being
	5.	Cover construction waste before transport in covered		performed.
		containers.	7.	Housekeeping to wipe work surfaces and floors with disinfectant.
	6.	All work associated with a major project that has an approved		
		ICRA authorization form will be assessed on an individual basis.		
Class V	1.	Construct gypsum board/metal stud dust partition, extend and	1.	Cover construction waste before transport in covered containers.
		seal to ceiling.	2.	Wet mop and vacuum with HEPA filtered vacuum.
	2.	Isolate HVAC system within work areas to prevent	3.	Do not remove barriers from work area until a Health System responsible
		contamination of duct system.		person inspects completed project.
	3.	Seal doors opening to adjacent areas with duct tape.	4.	Remove barrier materials carefully to minimize spread of dirt and debris
	4.	Block off and seal HVAC registers, grills and any openings in		associated with construction.
		ductwork to remain.	5.	Wet mop and vacuum with HEPA filtered vacuum before leaving work
	5 .	Maintain negative pressure within work site utilizing HEPA		area.
		equipped air filtration units.	6 .	Remove isolation of HVAC system in areas where work was being
	6 .	Place dust mat at entrance and exit of work area.		performed.
	<mark>7.</mark>	Cover construction waste before transport in covered and	7.	Housekeeping to wipe work surfaces and floors with disinfectant.
		sealed containers. Biohazards to be double bagged.		
	8.	All work associated with a major project that has an approved		
		ICRA authorization form will be assessed on an individual basis.		
	9.	Provide monitoring and clearance samples for mold/asbestos.		

Infection Control Construction Permit For Class IV and V Precautions

	Location of Activity: Multipurpose	Room Stage	Project Start Date:	
	Project Coordinator: Sean Kelly		Estimated Duration:	
	Contractor Performing Work:			
	Supervisor:		Telephone:	
Constructio	n Type: D	Risk Group: LOW	Preca	ution Class: V
Class I	Execute work by methods to minimiz operations.	ze raising dust from construction	Immediately replace ceiling t Clean work area upon comp	
Class II	High Risk patients must remain out of completion of work and cleanup. Execute work by methods to minimiz		Immediately replace ceiling t Remove all visible debris with Housekeeping to wipe work s	
Class III	Execute work by methods to minimiz Immediately replace ceiling tile if dis Provide active means to prevent airb atmosphere. Water-mist work surfaces to control Seal unused doors with duct tape. Isolate HVAC system in areas where prevent contamination of duct system.	placed or placed	 Wet mop and/or vacuum with Open previously sealed HVA 	ore transport in covered containers n HEPA filtered vacuum before leaving work area.
Class IV	1. Obtain infection control permit befor 2. Install plastic dust barriers to seal ar implement control cube method (cart w connection to work site with HEPA vacu before construction begins. 3. Isolate HVAC system in areas where prevent contamination of duct system. 4. Maintain negative pressure within w air filtration units. 5. Place dust mat at entrance and exit 6. Cover construction waste before tran	ea from non-work area or vith plastic covering and sealed uum for vacuuming prior to exit) work is being performed to ork site utilizing HEPA equipped of work area.	form will be assessed on an ind Control Checklist. 8. Wet mop and vacuum wit 9. Do not remove barriers from inspects completed project. 10. Remove barrier materials ca associated with construction. 11. Wet mop and vacuum with 12. Remove isolation of HVAC s 13. Housekeeping to wipe work	work area until a Health System responsible person refully to minimize spread of dirt and debris HEPA filtered vacuum before leaving work area. ystem in areas where work was being performed. surfaces and floors with disinfectant. Iting work activity and completion of remedial and
Class V	 Obtain infection control permit befor Construct gypsum board/metal stud to ceiling. Isolate HVAC system within work are duct system. Seal doors opening to adjacent areas Block off and seal HVAC registers, graductwork to remain. Maintain negative pressure within wair filtration units. Place dust mat at entrance and exit as Cover construction waste before trans All work associated with a major prograuthorization form will be assessed on Assessment and Exposure Control Check 	dust partition, extend and seal eas to prevent contamination of s with duct tape. rills and any openings in ork site utilizing HEPA equipped of work area. In sport in covered containers, ject that has an approved ICRA an individual basis using the Risk exhist.	10. Wet mop and vacuum w 11. Cover construction waste be Biohazards to be double bagged 12. Provide monitoring and clea 13. Do not remove barriers fron inspects completed project. 14. Remove barrier materials ca associated with construction. 15. Wet mop and vacuum with 16. Remove isolation of HVAC s 17. Housekeeping to wipe work 18. Complete daily log documer preventive procedures required.	th HEPA filtered vacuum. efore transport in covered and sealed containers. I. rance samples for mold/asbestos. In work area until a Health System responsible person refully to minimize spread of dirt and debris HEPA filtered vacuum before leaving work area. System in areas where work was being performed. Surfaces and floors with disinfectant. Iting work activity and completion of remedial and
	ns or additions to this permit are no		☐ Yes	No
	uested By: SEAN KELLY	Date: 08-08-2014	Approval By Service Affects	
Approval by	Safety Officer/ IH:	Date:	Approval by Infection Cont	rol: Date:

Risk Assessment and Exposure Control Checklist - Construction VA San Diego Healthcare System Project: MULTIPURPOSE ROOM STAGE DEMOLITION

Date: <u>08-08-2014</u>

Hazard	Concern? Y/N	Control Measure	Remarks
Asbestos	Y	2,4,6,10,11,12,13,14,15,17 & 18	
Dust	Y	2,3,4,5,6,7,8,10,11,15, & 17	
Moisture/water leaks	N		
Vapors/fumes	Y	2,4,6 & 15	
Noise	Y		ALL IMPACTED AREAS WILL BE NOTIFIED PRIOR TO START.
Vibration	Y		ALL IMPACTED AREAS WILL BE NOTIFIED PRIOR TO START.
Air pressure relationships	Y	2,4, & 6	
Traffic flow	N		
Open outside walls	N		
Impact to levels above and below	Y		ALL IMPACTED AREAS WILL BE NOTIFIED PRIOR TO START.
Proximity of air intakes	Υ	3,5 & 16	
Pest control within construction area	N		
Proximity of immune suppressed patients	N		
Potential TB exposure e.g., work in TB pt room, exhaust ducts or TB lab?	N		

Approval Signatures:

Project Manager:	Chief Engineering Section:
Infection Control (Class IV/V only):	Safety Officer/ IH:
Contractor:	Service/Section/Program Chief: See Attached Affected Service List

Certification of ICRA implementation prior to start of construction:

Project Manager: SEAN KELLY	Date:08-08-2014	Contractor:	Date:
	Control N	Massuras	

Asbestos

- 1. Contractor has hired an asbestos abatement contractor for control and cleanup.
- 2. VA to hire independent IH to inspect and clear area for reoccupancy based on monitoring and/or professional judgment.
- 3. Published asbestos protocol to be followed for work thru ceiling.
- 4. Published asbestos protocol to be followed for work above ceilings.
- 5. Perimeter barrier will be constructed in the interstitial space to isolate the construction area with other areas in the interstitial.
- 6. Project area will be encased with spray applied hard surface encasement material.
- 7. Provide mini containments under negative air in public areas.
- 8. Sealed gypsum board barrier will be constructed to isolate the construction area from the public.
- 9. Transit Panels will be removed which is considered Class B removal

Dust

- 1. Sealed gypsum board barrier will be constructed to isolate the construction area from the public.
- 2. Trash carts will be covered when transported thru the building.
- 3. Provide negative air machine exhausted to outside.
- 4. Provide mini containments under negative air in public areas.
- 5. Provide negative air machine in space as air scrubber.
- 6. Provide walk off mats at entrances to work area
- 7. Perimeter barrier will be constructed in the interstitial space to isolate the construction area with other areas in the interstitial.

Moisture Water Leaks

- 1. Contain any water from core drilling activities.
- 2. Dike any floor penetrations to minimize risk of leaks from construction zone.

Vapors/Fumes

- 1. Use of products with low VOC's.
- 2. Provide negative air in construction zone exhausted to outside away from intakes.
- 3. Seal work area airtight barrier.
- 4. Cut all metal outside the building.
- 5. Seal any floor penetrations to minimize risk of fumes thru construction zone.
- 6. Shut down air handler to minimize infiltration of fumes from outside.

Noise

- 1. Schedule demolition work after normal work hours.
- 2. Cut all metal outside the building.

Vibration

- 1. Schedule demolition work after normal work hours.
- 2. Coordinate with occupants in surrounding areas to explain the work occurring

Air Pressure Relationships

- 1. Provide negative air during asbestos abatement.
- 2. Provide negative air during construction
- 3. Seal off supply and exhaust HVAC registers.
- 4. Provide anti room under negative pressure at entrance to project zone.

Traffic Control

- 1. Access construction area via exterior door.
- 2. Schedule delivery of large quantities of material and demolition haul out after hours.

Open Outside Walls

1. Construct temporary outside wall to limit the infiltration of wind, air, and temperature differences into the project site.

Impact to Levels Above and Below

- 1. Coordinate with occupants in surrounding areas to explain the work occurring.
- 2. Follow asbestos protocol when doing under floor work
- 3. Vacate areas when doing below floor work off of the catwalk.

Proximity of Air Intakes

1. Shut down air handlers to reduce infiltration of fumes from exterior activities such as painting, gasoline powered engines, roofing operations, equipment, etc.

Pest Control within Construction Area

- 1. Provide barriers to any open outside walls
- 2. Contact Pest Controller if any evidence of pests are found during the course of the work.

Proximity of immune suppressed patients

- 1. Relocate patients away from construction zone for entire project.
- 2. Relocate patients away from construction zone during demolition operations.

Potential TB exposure

- 1. Relocate patient and close door for negative air to clear room before work (Ref MCM 11-36 Attach B)
- 2. Contractor to ensure workers meet TB screening guidelines within 90 days prior to working in area in accordance with VHA Directive 2011-036 Sep 22, 2011.

LIST OF AFFECTED SERVICES ICRA Notification/ Approval

PROJECT NAME: MULIPURPOSE ROOM STAGE DEMOLITION

PROJECT MANAGER: **SEAN KELLY**

SERVICE/SECTION/PROGRAM AFFECTED	NAME OF PERSON NOTIFIED	SIGNATURE	DATE NOTIFIE D
1			
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