



<b>Section</b>	Psychiatric Health Facility (PHF)	<b>Effective:</b>	9/28/16
<b>Sub-section</b>	Infection Control	<b>Version:</b>	2.0
<b>Policy</b>	Prevention of Construction, Demolition and Remodeling Related Infections	<b>Last Revised:</b>	DRAFT
<b>Director's Approval</b>	_____	<b>Date</b>	_____
	Alice Gleghorn, PhD		
<b>PHF Medical Director's Approval</b>	_____	<b>Date</b>	_____
	Ole Behrendtsen, MD	<b>Audit Date:</b>	DRAFT
<b>Supersedes:</b>	Hospital Construction and renovations eff 9/28/16		
<b>Approvals:</b>	PHF MPC Approval Date:	PGB Approval Date:	

## 1. PURPOSE/SCOPE

- 1.1. To prevent infections in patients and staff by minimizing risk factors associated with construction, demolition and remodeling activities at the Psychiatric Health Facility (PHF)e-PHF.

## 2. POLICY

- 2.1. The Infection Preventionist (IP) will be informed of pending construction projects and will actively participate in planning meetings to mitigate infection risks.
- 2.2. When using outside contractors, requirements for infection control ~~projects-practices~~ should be written into pre-construction bid requests, as applicable, and will be included in all construction contracts.
- 2.3. For Class III and IV construction projects (Attachment A), contractors and subcontractors will receive education regarding implementation of the requirements of this policy and the Infection Control (IC) Construction Permit activities.

## 3. GENERAL GUIDELINES

- 3.1. Any changes, extensions or modifications to the project must be discussed with the IP.
- 3.2. Daily monitoring of the Infection Control ~~C~~ Construction Permit's requirements (see Attachment B) BB) is the responsibility of the Project Manager.

- 3.3. Unannounced visits to the project site will be made by the IP. Deficiencies in compliance will be communicated to the Project Manager who will be instructed to immediately correct the deficiency or the project may be halted until the deficiency is corrected.
- 3.4. If the infection control precautions requirements are not being observed, the following persons may halt the project:
  1. The IP;
  2. Project Manager;
  3. Safety Officer;
  4. PHF Medical Director, Clinical Director, Chief Executive Officer, Managers; or
  4. ~~Nursing Supervisor;~~
  5. Psychiatric Health Facility (PHF) Managers

#### 4. **NON-EMERGENCY PROJECTS**

- 4.1. Prior to beginning a non-emergency remodeling or construction project, the contractor or Facilities Management representative will meet with the IP and complete the Infection Control Risk Assessment (ICRA) (see Attachment AAB).
  1. Theis ICRA considers the design and function of the area under construction, renovation or demolition; the risk of airborne transmission of potential pathogens; and the preventative measures to be taken to contain dust and moisture.
  2. The ICRA will categorize:
    - a. The type of project to be completed, the extent of the work to be done, the duration the project is expected to last, other areas affected by the project and the potential factors for airborne contaminants.
    - b. The area of the structure to be affected by type of area (i.e., office area, patient care area, etc.) and the types of persons located in or near the area (i.e., office staff, patients, etc.). Consideration will be given to areas adjacent, above, and below the project area.
  3. The ICRA will use A-a set of matrices matrix will be used to match the risk group and construction type to find the Class of the project and the types of IP-infection prevention controls tasks and measures required.
    - a. Class I and Class II projects required that the noted infection prevention tasks contained in Attachment B be practiced, but a construction permit is not required.
    - e.b. Class III and Class IV projects require a construction permit and compliance with the infection prevention tasks and a construction permit contained in Attachment B.
- 4.2. The ICRA process will be reviewed and approved by the IP and required controls instituted as a result of the is ICRA assessment will be enforced.

4. —

4.3. Based upon the completed ICRA, the IP will issue a PHF *Infection Control Construction Permit* for the project.

1. A copy of the permit must be posted at the work site for the duration of the project.

4.4. If construction activities will affect areas beyond the PHF, the Project Manager will notify PHF ~~those~~ managers of the affected areas as early as possible.

4.5. Construction areas may need to be sealed off from the other affected areas to prevent dust, spores and other potential pathogens from being dispersed.

1. Extensive construction projects may require negative air flow for the duration of the project. Negative airflow may also be required for one hour after the job is completed and the area is no longer occupied ~~for the duration of the project and for one hour after completed and no longer occupied.~~

2. Negative air flow machines ~~will~~ shall be equipped with HEPA filtration to scrub the air being exhausted into the external environment or the PHF's ventilation system.

3. Filters ~~shall~~ ould be monitored frequently and changed as needed.

4. Impermeable barriers shall be utilized to ensure the potentially contaminated materials from internal work areas do not enter the ventilation system.

5. Building materials, tools, and debris being removed from a construction site shall be tightly covered to prevent dust dispersion.

6. The traffic flow for waste ~~is~~ will be determined during the ICRA process.

7. Waste and debris shall be transported away from patient care areas whenever possible.

4.6. Construction areas shall be cleaned (dust and debris) at the end of each shift and more frequently if dust is excessive.

4.7. Final cleaning of construction areas prior to intended use ~~sh~~ will be done using an approved ~~germicidal, fungicidal solution~~ cleaner/disinfectant.

~~4.7. Refer to the ICRA (Attachment A ) for the full description of Required Infection Control Precautions by Class.~~

## 5. **EMERGENCY PROJECTS**

5.1. In the event of an emergency, work may begin immediately and the IP should be contacted as soon as possible for an ICRA and IC ~~Construction~~ Construction Permit.

5.2. All guidelines noted above must be followed for emergency construction projects.

**ASSISTANCE**

~~Andra Dillard~~[Infection Preventionist](#)

**ATTACHMENTS**

Attachment A: Infection Control Risk Assessment —~~Maxtrix~~[Matrix](#) ~~of Precautions for Construction & Renovation~~

Attachment B: Infection Control Construction Permit

**REFERENCES**

APIC, Forms and Checklists for Infection Control, 2017

APIC Text, ~~4<sup>th</sup> Edition, 2015~~ [Online](#)

[APIC, Infection Prevention Manual for Construction & Renovation \(2015\)](#)

**REVISION RECORD**

DATE	VERSION	REVISION DESCRIPTION
DRAFT	2.0	Updated to reflect new procedures and attachments.

***Culturally and Linguistically Competent Policies***

*The Department of Behavioral Wellness is committed to the tenets of cultural competency and understands that culturally and linguistically appropriate services are respectful of and responsive to the health beliefs, practices and needs of diverse individuals. All policies and procedures are intended to reflect the integration of diversity and cultural literacy throughout the Department. To the fullest extent possible, information, services and treatments will be provided (in verbal and/or written form) in the individual's preferred language or mode of communication (i.e. assistive devices for blind/deaf).*

# Infection Control Risk Assessment

## Matrix of Precautions for Construction & Renovation

Using the following table, *identify* the **Type of Construction Project Activity**

<i>TYPE A</i>	<p><b>Inspection and Non-Invasive Activities.</b> Includes, but is not limited to:</p> <ul style="list-style-type: none"> <li>▪ removal of ceiling tiles for visual inspection only, e.g., limited to 1 tile per 50 square feet</li> <li>▪ painting (but not sanding)</li> <li>▪ wallcovering, 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.</li> </ul>
<i>TYPE B</i>	<p><b>Small scale, short duration activities which create minimal dust</b> Includes, but is not limited to:</p> <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>
<i>TYPE C</i>	<p><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:</p> <ul style="list-style-type: none"> <li>▪ sanding of walls for painting or wall covering</li> <li>▪ removal of floorcoverings, 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 which cannot be completed within a single work shift.</li> </ul>
<i>TYPE D</i>	<p><b>Major demolition and construction projects</b> Includes, but is not limited to:</p> <ul style="list-style-type: none"> <li>▪ activities which require consecutive work shifts</li> <li>▪ requires heavy demolition or removal of a complete cabling system</li> <li>▪ new construction.</li> </ul>



## Infection Control Construction Permit

Location of Construction:			Project Start Date:		
Project Coordinator:			Estimated Duration:		
Contractor Performing Work:			Permit Expiration Date:		
Supervisor:			Telephone:		
Refer to Infection Control Risk Assessment to determine Construction Project Type & Patient Risk Group					
YES	NO	CONSTRUCTION <u>PROJECT TYPE ACTIVITY</u>	YES	NO	PATIENT RISK GROUP <u>INFECTION CONTROL RISK GROUP</u>
		TYPE A: Inspection, non-invasive activity			GROUP 1: Low Risk
		TYPE B: Small scale, short duration <u>activities that create minimal dust</u> <u>———— moderate to high levels</u>			GROUP 2: Medium Risk
		TYPE C: <u>Activity generates moderate to high levels of dust, or requires greater than 1 work shift for completion</u> <u>Work that generates a moderate to high level of dust or requires demolition or removal of any fixed building components or assemblies or requires greater than one shift for completion</u>			GROUP 3: Medium/High Risk
		TYPE D: Major <u>demolition</u> and construction activities <u>Requiring Requiring</u> consecutive work shifts <u>and new construction</u>			GROUP 4: N/A <u>at PHE</u>
<b>CLASS I</b>		1. Execute work by methods to minimize raising dust from construction operations. 2. Immediately replace any ceiling tile displaced for visual inspection.	3. Clean work area on completion of project.		
<b>CLASS II</b>		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 <u>with daily with approved cleaner/disinfectant.</u>	6. Contain construction waste before transport in tightly covered containers. 7. Wet mop and/or vacuum with HEPA filtered vacuum before leaving work area <u>daily.</u> 8. Place dust mat at entrance and exit of work area. 9. <u>Remove or isolate</u> HVAC system in areas where work is being performed; restore when work completed.		
<b>CLASS III</b>		1. Obtain infection control permit before construction begins. 2. <u>Remove or isolate</u> 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.	6. Vacuum work with HEPA filtered vacuums. 7. Wet mop with <u>approved</u> 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. 10. Cover transport receptacles or carts. Tape covering. 11. Upon completion, restore HVAC system where work was performed.		
<b>Date</b>		4. Maintain negative air <u>pressure-flow</u> within work site utilizing HEPA equipped air filtration units.			
<b>Initial</b>		5. Do not remove barriers from work area until complete project is checked by Infection Preventionist & Control and thoroughly cleaned by Environmental Services.			
<b>CLASS IV</b>		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.	8. Do not remove barriers from work area until completed project is checked by Infection Preventionist & Control and thoroughly cleaned by Environmental Services.		
<b>Date</b>		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.	9. Vacuum work area with HEPA filtered vacuums. 10. Wet mop with <u>approved cleaner/disinfectant.</u> 11. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction.		
<b>Initial</b>		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.	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.		

Additional Requirements:	
_____ Date Initials	_____ Exceptions/Additions to this permit Date Initials are noted by attached memoranda
Permit Request By:	Permit <u>Approved by Infection Preventionist:</u> _____ Authorized By:
Date:	Date: