

PRE-CONSTRUCTION RISK ASSESSMENT (PCRA)

Project # 568A4-21-702

Project Title: EHRM Infrastructure Upgrades – Hot Springs, SD

Est. Start Date: 10-1-2022

Area of Construction:

Est. End Date: 10-1-2023

Contractor/Supervisor: Pending

PCRA Completed by: Russ Skovlund, Gene Ensor, and Mark Tupper.

SAFETY/ENGINEERING

<u>Y</u>	<u>N</u>		If YES, CIRCLE ILSM from list below or describe other intervention
Y		Will exits or exit egress routes from occupied areas change?	A, E, H, J, L
Y		Will the construction area have less than two remote exits?	A, E, H, J, L
Y		Will there be excessive distance to exit?	A, E, H, J, L
Y		Will access to Emergency Services become blocked or obstructed?	A, B, I, J, L
Y		Will any part of the fire protection systems (detection, notification or suppression) be shut down or impaired for >4 hours in a 24-hour period?	C, E, H, I, K
Y		Will smoke or firewalls be breached?	A, E, G, H
Y		Will any temporary construction partitions be built?	D
Y		Will the project result in the accumulation of construction debris?	E, F, G, H
Y		Will construction affect grounds safety (pits, storage, equipment, etc.)?	H
Y		Will construction present other life safety hazards?	H, J
	N	Will protection of hazardous areas be compromised?	H

INTERVENTION

- | | | |
|--|---|---|
| A. Ensure Alternate Egress Routes | E. Additional Fire Fighting Equipment | I. Additional Training of Emergency Personnel |
| B. Ensure Alternate Emergency Access | F. Control Combustible Loads | J. Ensure Additional Employee Education |
| C. Fire Department Notification | G. Conduct 2 Fire Drills Per Shift in All Areas | K. Institute a Fire Watch w/documentation |
| D. Ensure Smoke-Tight Temporary Construction | H. Increase Hazard Surveillance Rounds | L. Post temporary signage |

<u>Y</u>	<u>N</u>	CONSTRUCTION ACTIVITY	If YES, describe intervention
Y		Will there be any anticipated utility shutdowns? (Communications, electrical, heating/cooling, HVAC, medical gases, vacuum, water, server)	Coordination with station chiefs.
Y		Will noise levels be excessive?	Coordination with station chiefs.
Y		Will vibration levels be excessive?	Coordination with station chiefs.
Y		Will additional security measures be implemented?	In support of IT closet access

Additional Requirements:

See attached document as guidance for the entire campus. It may become a living document to support patient and hospital needs.

PATIENT SAFETY COORDINATOR

<u>Y</u>	<u>N</u>	CONSTRUCTION ACTIVITY	
Y		Does this project involve a patient care area either directly or adjacent to?	
		List:	
Y		Do areas involved have knowledge of construction?	
		List:	
Y		Does this project alter patient access building/patient care area, either temporarily or permanently?	

If YES, indicate intervention:

Access	<p>1. The new/temporary access path should be intuitive, i.e. easy to follow.</p> <p>2. Signage should be adequate for decreased visual acuity and at appropriate viewing levels for both ambulating and w/c bound individuals.</p> <p>3. The access path should be smooth, without tripping hazards.</p> <p>4. The access path should be handicap accessible.</p>
Constructi on Area/ Materials	<p>1. Construction areas should not be accessible by unauthorized personnel.</p> <p>2. Construction areas should be visually identified.</p> <p>3. Construction materials and tools should be moved and stored appropriately to preclude unauthorized access?</p>
Critical Alarms	<p>Critical clinical alarms shall be functional and audible within and adjacent to the construction zone? Including but not limited to:</p> <p>a. Emergency CODE Systems c. Wander guard technology e. Medication/Nutrition Pumps</p> <p>b. Medical Gas Alarms (Oxygen, Air, Suction) d. Vital Sign Monitoring/Telemetry Systems f. Nurse Call Systems</p>

Additional Requirements:

Coordination with biomed will be needed.

INFECTION CONTROL RISK ASSESSMENT

INFECTION CONTROL COORDINATOR

Y	N	CONSTRUCTION ACTIVITY TYPE	Y	N	PATIENT RISK GROUP (may modify as appropriate)
		A: Inspection, non-invasive activity-includes, not limited to removal of ceiling tiles for inspection (1/50 sq ft), painting (not sanding), wall covering, electrical trim work, minor plumbing, activities which do not generate dust or require cutting of walls or access to ceilings other than for visual inspection.			<u>Low Risk</u> - (ex Office Areas)
		B: Small scale, short duration, moderate to high levels-includes but not limited to installation of telephone/computer cabling, access to chase spaces, cutting of walls or ceiling where dust migration can be controlled.			<u>Medium Risk</u> -(ex Cardiology, ECHO, Endoscopy, Nuclear Medicine, Physical Therapy, Radiology/MRI, Respiratory Therapy)
		C: Work that generates a moderate to high level of dust or requires demolition or removal of any fixed building components or assemblies. Includes but not limited to sanding of walls for painting or wall covering; removal of floor coverings, ceiling tiles, and casework; new wall construction; minor duct work or electrical work above the ceilings; major cabling activity; any activity which cannot be completed in a single work shift.			<u>High Risk</u> -(ex CCU, ER, Labor & Delivery, Laboratories (specimen), Newborn Nursery, Outpatient Surgery, Pediatrics, Pharmacy, Post Anesthesia care, Surgical Units)
		D: Major duration and construction activities-Includes, but not limited to: activities that require consecutive work shifts; requires heavy demolition or removal of a complete cabling system; new construction.			<u>Highest Risk</u> -(ex Any area caring for Immunocompromised patients, Burn Unit, Cardiac Cath Lab, Central Sterile Supply, ICU, Medical Unit, Negative pressure isolation rooms, Oncology, Operating rooms including C-section)

Project Class	Patient Risk Group	TYPE A	TYPE B	TYPE C	TYPE D
	LOW Risk	I	II	II	III/IV
	MEDIUM Risk	I	II	III	IV
	HIGH Risk	I	II	III/IV	IV
	HIGHEST Risk	II	III/IV	III/IV	IV

During Construction Project

Upon Completion of Project

CLASS I	<ol style="list-style-type: none"> Execute work by methods to minimize raising dust from construction operations. Immediately replace any ceiling tile displaced for visual inspection. 	
CLASS II	<ol style="list-style-type: none"> Include all items from Class I above Provides active means to prevent air-borne dust from dispersing into atmosphere Water mist work surfaces to control dust while cutting. Seal unused doors with duct tape. Block off and seal air vents. Place dust mat at access points of work area. Contain construction waste before transport in tightly covered containers. Isolate HVAC system in areas where work is being performed to prevent contamination of duct system. 	<ol style="list-style-type: none"> Wipe surfaces with disinfectant. Contain construction waste before transport in tightly covered containers. Wet mop and/or vacuum with HEPA filtered vacuum before leaving work area. Remove isolation of HVAC system in areas where work is being performed.
CLASS III	<ol style="list-style-type: none"> Include all items from Class I/II above Involve Infection Control in design/planning before construction begins. 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. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units. Cover transport receptacles or carts. Tape covering unless solid lid. 	<ol style="list-style-type: none"> Include all items from Class I/II above Do not remove barriers from work area until completed project is thoroughly cleaned as required by Chief, EMS and Infection Control Coordinator. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction. Vacuum work area with HEPA filtered vacuums. Wet mop area with disinfectant.
CLASS IV	<ol style="list-style-type: none"> Include all items from Class I/II/III above Involve Infection Control in design/planning before construction begins. Seal holes, pipes, conduits, and punctures appropriately. If exiting to a patient care area, 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. Walk-off mats are recommended to minimize tracking of heavy dirt and dust from construction areas. Shoe covers may be considered in certain areas. 	<ol style="list-style-type: none"> Include all items from Class I/II/III above

ICRA PROJECT CLASS: The whole campus is affected. See attached spreadsheet

Y N **RISK OF TB EXPOSURE** **TYPE OF RISK:**

If yes, describe intervention:

Additional Requirements:

Patient Safety Coordinator/Date

Infection Control Coordinator/Date

IH/Safety Date

Project Engineer/Date

Building	Floor	Area Description	ICRA	Hours		NOTES
				Class	Occupied	
1	Basement	Offices	II	0800-1630	No restrictions	
	First	Offices	II	0800-1630	No restrictions	
	Second	Offices	II	0800-1630	No restrictions	
	Second	Mental Health	II	0800-1630	After 1700 hrs	Area noted on drawings
2	Third	Offices	II	0800-1600	No restrictions	
	Sub-basement	Offices	II	0800-1600	No restrictions	
	Basement	Offices	II	0800-1600	No restrictions	
	First	Dining	II	Breakfast, lunch, diner	After hours	Work to be conducted after dining hours, coordinate with C.O.R.
	First	Kitchen	III	0600-1800	After 1800 hrs	After dining hours, coordinate with C.O.R.
3	Second	Clinic	II	0800-1630	After 1700 hrs	
	Basement	Volunteers	II		No restrictions	
	First	Nat. Call Center	II		No restrictions	
4	Second	Nat. Call Center	II		No restrictions	
	Basement	Nat. Call Center	II		No restrictions	
	First	Nat. Call Center	II		No restrictions	
5	Second	Nat. Call Center	II		No restrictions	
	Basement	Kitchen	III	0700-1430	After 1500 hrs	After dining hours, coordinate with C.O.R.
	Basement	Retail	II		No restrictions	
	First	Resident floor	III	0-2400	0800-1630 hrs	Patient area
6	Second	Isolation Ward	III	0-2400	0800-1630 hrs	Occupancy may vary at time of construction, coordinate with C.O.R.
	Basement	DOM Quarters	II	0700-1530	0700-1530 hrs	Work cannot occur after hours.
	First	DOM Quarters	II		No restrictions	
	Second	Patient Activities	II			Work around schedule of use, coordinate with C.O.R.
7	Basement	Patient Activities	II			Work around schedule of use, coordinate with C.O.R.
	First	Resident floor	III	0-2400	0800-1630 hrs	Patient area
	Second	Resident floor	III	0-2400	0800-1630 hrs	Patient area
8	Basement	Storage	II	0800-1600	No restrictions	
	First	Resident floor	III	0-2400	0800-1630 hrs	Patient area
	Second	Resident floor	III	0-2400	0800-1630 hrs	Patient area
9	Basement	Storage	II		No restrictions	
	First	Chapel	II	Sundays	No restrictions	No work on Sundays and religious holidays
10	Basement		II		No restrictions	
	First	Chapel	II	Sundays	No restrictions	No work on Sundays and religious holidays
	Basement	Call Center	II	0800-1630	After 1700 hrs	Connector corridor work: no restrictions
12	First		II		No restrictions	
	Second		II		No restrictions	
	Basement	Sector A: Clinic	III	0800-1630	After 1700 hrs	Area noted on drawings
	Basement	Sector A: Files	II	0800-1630	No restrictions	
	Basement	Sector C, D: Central Sterile	IV	0800-1630	After 1700 hrs	Area noted on drawings
	Basement	Sector C, D: Offices	II		No restrictions	Area noted on drawings
	Ground	Sector A: Urgent Care	III	0700-2000	After 2000 hours	Area noted on drawings
	Ground	Sector A: Clinic	III	0700-1630	After 1700 hrs	Area noted on drawings
	Ground	Sector B: Imaging	III	0800-1630	After 1700 hrs	
	Ground	Sector B: Clinic	III		No restrictions	
	Ground	Sector C, D: Comp. Rx	IV	0800-1630	0800-1630 hrs	Compounding Pharmacy; area noted on drawings
	Ground	Sector C, D: Rx	IV	0800-1630	No restrictions	Pharmacy
	First	Sector A: Acute Care	IV	0-2400	0800-1630 hrs	
	First	Sector B: Eye Clinic	III	0800-1630	After 1700 hrs	
	First	Sector C, D: Dental	III	0800-1630	After 1700 hrs	
	First	Sector C, D: Offices	II		No restrictions	
	Second	Sector A: Sterile Strg	IV	0800-1630	0800-1630 hrs	Note area to be coordinated indicated in drawings
	Second	Sector B: Dialysis	IV	High use	Weekends	Saturday after 1600 hrs to Monday 0500 hrs
	Second	Sector B: Offices	II	0800-1630	0800-1630 hrs	
	Second	Sector C, D: Sp. Clinic	III	0800-1630	After 1700 hrs	Area noted on drawings
	Second	Sector C, D: Dialysis	IV	High use	Weekends	Saturday after 1600 hrs to Monday 0500 hrs
Second	Sector C, D: Offices	II	0800-1630	0800-1630 hrs		
Third	Sector B: Offices	II		No restrictions		
Third	Sector C, D: Biomed	II		No restrictions		
Third	Sector C, D: Sleep Lab	III	2000-0800	0800-1630 hrs		
Third	Sector C, D: Respiratory	III	0800-1630	After 1700 hrs	Area noted on drawings	
Third	Sector C, D: Admin	II	0800-1630	After 1700 hrs	Area noted on drawings	
Fourth	Lab Admin	II		No restrictions		
Fourth	Laboratory	IV	0800-1630	0800-1630 hrs		

Building	Floor	Area Description	ICRA	Hours	Hours	NOTES
			Class	Occupied	G.C. Work	
13	First	Painter/pipefitter	I		No restrictions	
14	First	Engineering	II		No restrictions	
17	First	Garage	I		No restrictions	
18	First	Engineering	I		No restrictions	
20	Basement	Residence	II		No restrictions	
	First	Residence	II		No restrictions	
23	Basement	Residence	II		No restrictions	
29	Basement	Residence	III	0800-1630	0800-1630 hrs	
43	Basement	Laundry	I	0800-1630	0800-1630 hrs	
53	Basement		II	0800-1630	0800-1630 hrs	
	Ground	Kitchen	III	0700-1430	After 1500 hrs	After dining hours, coordinate with C.O.R.
	First	Call Center	II	0800-1630	After 1700 hrs	
	First	Library	II		No restrictions	Coordinate with C.O.R.
65	Ground	MCR	III		No restrictions	
	Ground	Offices	II	0800-1630	0800-1630 hrs	
66	Ground	Police, FD	II	0800-1630	0800-1630 hrs	