

OP 551 - Project Planning

Activity Hazard Analysis – 5.0

Activity/Work Task: Site Reconnaissance	Overall Risk Assessment Code (RAC) (Use highest code)		M			
Project Location: UNC New Haven	Risk Assessment Code (RAC) Matrix					
Contract Number: 10-1007.00 (old project #)	Severity	Probability				
Date Prepared: 2/25/2016		Frequent	Likely	Occasional	Seldom	Unlikely
Prepared by (Name/Title): Mike Plonski		Catastrophic E	E	H	H	M
Reviewed by: Sean Liddy, CSP		Critical E	H	H	M	
		Marginal H	M	M		
Competent Person (if applicable): Radiation Technician						
Notes: (Field Notes, Review Comments, etc.) The following outlines minimum requirements per accordance with the SSHP previously prepared for the project site. Subcontractors are responsible for performing tasks in accordance with the minimum requirements established for the site and in accordance with their own HS&E policies and procedures. Subcontractors shall review and supplement the AHA with company specific HS&E guidance. Modifications or changes to the AHA should be forwarded to the PM/SSHO and reviewed by all project staff prior to performing the task.	Step 1: Review each "Hazard" with identified safety "Controls" and determine RAC (See above)					RAC Chart
	"Probability" is the likelihood to cause an incident, near miss, or accident and identified as: Frequent, Likely, Occasional, Seldom or Unlikely.					
	"Severity" is the outcome/degree if an incident, near miss, or accident did occur and identified as: Catastrophic, Critical, Marginal, or Negligible					
	Step 2: Identify the RAC (Probability/Severity) as E, H, M, or L for each "Hazard" on AHA. Annotate the overall highest RAC at the top of AHA.					
E = Extremely High Risk						
H = High Risk						
M = Moderate Risk						
Personal Protective Equipment (PPE): <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input checked="" type="checkbox"/> Hard Hat</div> <div style="width: 33%;"><input checked="" type="checkbox"/> Safety Glasses</div> <div style="width: 33%;"><input type="checkbox"/> Ear Muffs</div> <div style="width: 33%;"><input checked="" type="checkbox"/> Long Pants/Sleeves</div> <div style="width: 33%;"><input type="checkbox"/> Inner Glove</div> <div style="width: 33%;"><input type="checkbox"/> Fall Protection</div> <div style="width: 33%;"><input type="checkbox"/> Wide Brim Hat</div> <div style="width: 33%;"><input checked="" type="checkbox"/> Leather Glove</div> <div style="width: 33%;"><input type="checkbox"/> Safety Goggles</div> <div style="width: 33%;"><input type="checkbox"/> Ear Plugs</div> <div style="width: 33%;"><input checked="" type="checkbox"/> Coveralls (coated)</div> <div style="width: 33%;"><input checked="" type="checkbox"/> Outer Glove</div> <div style="width: 33%;"><input type="checkbox"/> Cooling Vest</div> <div style="width: 33%;"><input type="checkbox"/> Half/Full Face Respirator</div> <div style="width: 33%;"><input type="checkbox"/> Kevlar Glove</div> <div style="width: 33%;"><input checked="" type="checkbox"/> Safety Toe Boots</div> <div style="width: 33%;"><input checked="" type="checkbox"/> Traffic Vest</div> <div style="width: 33%;"><input type="checkbox"/> Flame Resistant Clothing</div> <div style="width: 33%;"><input type="checkbox"/> Face Shield</div> <div style="width: 33%;"><input type="checkbox"/> Welding PPE</div> <div style="width: 33%;"><input type="checkbox"/> Cartridge/Filter Type:</div> </div> Other PPE: Modified Level D PPE for dermal protection in areas of excessive debris.						
Safety Equipment: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input checked="" type="checkbox"/> First Aid Kit</div> <div style="width: 33%;"><input type="checkbox"/> Eyewash Station</div> <div style="width: 33%;"><input checked="" type="checkbox"/> Eyewash Bottles</div> <div style="width: 33%;"><input checked="" type="checkbox"/> Fire Extinguisher (A-B-C)</div> <div style="width: 33%;"><input type="checkbox"/> Pop-up Shade</div> <div style="width: 33%;"><input type="checkbox"/> Sunscreen</div> <div style="width: 33%;"><input checked="" type="checkbox"/> Drinking Water</div> <div style="width: 33%;"><input type="checkbox"/> Air Horn</div> <div style="width: 33%;"><input checked="" type="checkbox"/> Trekking Poles</div> <div style="width: 33%;"><input type="checkbox"/> Insect Repellent</div> <div style="width: 33%;"><input type="checkbox"/> Wheel Chocks</div> <div style="width: 33%;"><input type="checkbox"/> Cargo Net</div> <div style="width: 33%;"><input type="checkbox"/> Stretch First Safety First</div> </div> Other Safety Equipment: Trekking pole (or equivalent) recommended for use to ensure proper footing in areas of debris.						
Monitoring Procedures and Action Levels (Refer to Section 3.0 of SSHP): <input type="checkbox"/> PID (10.6eV) <input type="checkbox"/> PID (11.7eV) <input type="checkbox"/> Multi-Rae (PID+O2, H2S, CO, LEL) <input type="checkbox"/> PDR (Respirable Dust) <input type="checkbox"/> PDM (Total Dust) <input type="checkbox"/> Radiological Meter <input type="checkbox"/> Personal Air Pump						
Chemicals of Concern (COC): Potential for asbestos debris and other unknowns.						

Job Steps	Hazards	Controls	RAC
Site walk/survey to perform inspections and collect measurements and data.	Twisting ankles/feet due to surface/subsurface obstructions.	- Due to age/condition of building, high potential for holes in walking surface due to weather/rot. Avoid areas of water damage, saturated flooring and standing water. Visually inspect area walking. Identify possible hazards such as holes, obstructions protruding from the ground, or debris that may be scattered on the ground. Contact site manager immediately and do not proceed if any conditions are observed that could make walking in the area unsafe.	M

Job Steps	Hazards	Controls	RAC
Site walk/survey to perform inspections and collect measurements and data (continued).	Falling objects from overhead	<p>-Visually inspect overhead structure prior to entering into building. Use hard hats, safety glasses and appropriate PPE.</p> <p>Do not enter if building appears unsafe, or lose objects noted overhead. Do not enter if high/gusty winds are present. Contact PM and make note in field book that structure unsafe to enter.</p>	M
Site walk/survey to perform inspections and collect measurements and data (continued).	<p>Injuries caused by improper lifting techniques.</p> <p>Trips/Falls</p>	<p>-Use proper bending/lifting techniques by bending and lifting with legs and not with back. Keep load centered to body and do not over extend. Avoid twisting. Use buddy system to lift heavy objects. Ensure pathway is clear before lifting.</p> <p>-Watch footing and observe ground surface for breaks in elevation, uneven surfaces, loose debris, or other obstructions to cause improper footing.</p>	
Site walk/survey to perform inspections and collect measurements and data (continued).	<p>Falls from height</p> <p>Confined Spaces</p> <p>Biologic hazards such as insects, poison ivy, spiders, and snakes.</p>	<p>-Avoid areas in which potential fall hazards (≥ 6 ft to lower level) are present. Fall protection will be required if exposed to fall ≥ 6 ft to lower level.</p> <p>Contact OH&S Manager for guidance.</p> <p>-Be aware of presence of confined spaces on project site and do not enter.</p> <p>Contact OH&S Manager for guidance.</p> <p>-Although not expected to be of concern during winter months, check immediate area for potential hazards such as poison ivy, spiders, wasps, snakes, etc. Use bug repellent, sunscreen, and trekking pole as necessary.</p>	
Site walk/survey to perform inspections and collect measurements and data (continued).	<p>Exposure to COCs via dust generation during walk over</p> <p>Exposure to other chemicals potentially present on-site</p>	<p>-Visually identify and avoid potential ACM in the work area. Mark downed ACM with spray paint and do not disturb.</p> <p>-Do not disturb drums or other containers of unknown materials. Do not attempt to open lids, or turn valves on containers/drums. Do not tilt/rock/move containers/drums of unknown content.</p> <p>If containers/drums noted to be compromised or leaking, notify PM, OH&S Manager and leave the area.</p>	
Using instrumentation and tools for data collection.	<p>Injuries caused by improper lifting techniques or stretching.</p> <p>Twisting ankles/feet due to surface/subsurface obstructions.</p> <p>Slips, trips, falls.</p>	<p>-Use proper bending/lifting techniques by bending and lifting with legs and not with back. Keep load centered to body and do not over extend. Avoid twisting. Use buddy system to lift heavy objects. Ensure pathway is clear before lifting.</p> <p>-Inspect area before driving and/or walking. Identify possible hazards such as holes, obstructions protruding from the ground, or debris that may be scattered on the ground. Contact the PM and/or OH&S Manager immediately and do not proceed if any conditions are observed that could make driving/walk in the area unsafe and that cannot be fixed with the equipment or personnel onsite.</p> <p>-Be observant for tripping hazards, holes, or other uneven surfaces.</p>	

Job Steps	Hazards	Controls	RAC
Secure equipment in vehicle when complete.	<p>Damage to equipment/tools and/or accidents with loose objects.</p> <p>Pinch points.</p> <p>Communications</p>	<p>-Stow all materials in vehicle properly, use appropriate cases and bags. Secure equipment in bed of truck with netting or straps. Do not leave any equipment loose in the cab or bed or the truck. It can cause property damage or serious injuries to others or yourself by falling-off from vehicle.</p> <p>-When securing equipment, watch for pinch points. Straps and netting can get caught on objects and snap back as well as trap a finger if hand placement is not correct. Use a buddy to help secure equipment when possible.</p> <p>-Maintain contact with site workers and advise of location of survey, and status. Confirm when complete prior to departure.</p>	

Additional Safety Considerations

1. Ensure all personnel have read and acknowledged the AHA. The AHA may be revised daily based on daily de-brief of work activities.
2. Keep line of site with co-worker and ensure regular verbal contact. If out of the line of site, ensure radio or cell phone contact is established and maintained.

Equipment to be Used	Inspection Requirements	Training Requirements
Utility Vehicles, including trucks	Daily Preventative Maintenance Checks	Vehicle & Driver Safety Awareness Familiarity with the vehicle being operated.
Communications Equipment	Daily communications Checks	Familiarity with the equipment. Knowledge of Emergency Response Procedures.
PPE – steel toed boots, hard hat, safety glasses, high visibility vest, snake gaiters	Daily inspection prior to use	To be used in accordance with manufacturer's specifications and operator's manual
Sodium iodide gamma detector with rate meter	Daily functional test prior to use	Qualified Radiological Protection Technician To be used in accordance with manufacturer's specifications and operator's manual
Alpha-Beta-detector with rate meter	Daily functional test prior to use	Qualified Radiological Protection Technician To be used in accordance with manufacturer's specifications and operator's manual
Dose rate meter	Daily functional test prior to use	Qualified Radiological Protection Technician To be used in accordance with manufacturer's specifications and operator's manual
Hand/Power Tools	Inspect hand tools for serviceability	Use hand tools for their intended purposes. Use gas powered tools only for intended purposes. Review manufactures instructions. Familiarity with the equipment.
		<u>Other Training:</u> -Evacuation, Emergency Response & Notification Procedures IAW SSHP. -Safe work practices and precautions IAW SSHP. -OSHA qualifications and training as required IAW SSHP.

Acknowledgment

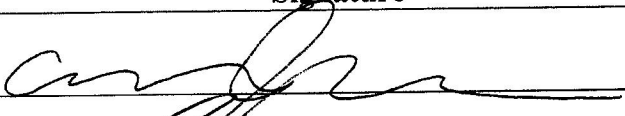

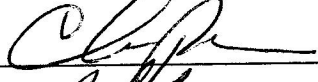
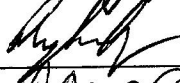



All employees, subcontractors, and visitors must sign the Acknowledgement form, in this section, before conducting field activities at this site.

By signing this form, CABRERA employees agree that:

- I have read this Activity Hazard Analysis and I understand the requirements of the AHA.
- I will conduct work at this site in accordance with the requirements of the AHA.

By signing this form, subcontractors and visitors agree that:

- I have read and understood the potential hazards associated with the site.
- I have read this Activity Hazard Analysis and I understand the requirements of the AHA.
- I will conduct work at this site in accordance with the requirements of the AHA.
- I will ensure compliance with my company's policies on health and safety.

Name (Print)	Date	Company	Signature
Angelica	2/21/17	Cabrera	
Ia Ser	2-21-17	AIG	
Chris Powers	2-21-17	AIG	
BORY GRAY	2-21-17	AIG	
Nick Berlin	2/21/17	Cabrera	
Al Craig	2/21/17	Cabrera	
Fred Paredes	2/23/17	AIG	
Alexandro Cote	2/23/17	AIG	