

OP 551 - Project Planning

Activity Hazard Analysis – 1.0

Activity/Work Task: Mobilization/Demobilization		Overall Risk Assessment Code (RAC) (Use highest code)																																			
Project Location: UNC New Haven		Risk Assessment Code (RAC) Matrix																																			
Contract Number: 10-1007.00		<table border="1"> <thead> <tr> <th rowspan="2">Severity</th> <th colspan="4">Probability</th> </tr> <tr> <th>Frequent</th> <th>Likely</th> <th>Occasional</th> <th>Seldom</th> <th>Unlikely</th> </tr> </thead> <tbody> <tr> <td>Catastrophic</td> <td>E</td> <td>E</td> <td>H</td> <td>H</td> <td>M</td> </tr> <tr> <td>Critical</td> <td>E</td> <td>H</td> <td>H</td> <td>H</td> <td>M</td> </tr> <tr> <td>Marginal</td> <td>H</td> <td>M</td> <td>M</td> <td>M</td> <td></td> </tr> <tr> <td>Negligible</td> <td>M</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Severity	Probability				Frequent	Likely	Occasional	Seldom	Unlikely	Catastrophic	E	E	H	H	M	Critical	E	H	H	H	M	Marginal	H	M	M	M		Negligible	M				
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Date Prepared: 10/4/2016		<p>Step 1: Review each "Hazard" with identified safety "Controls" and determine RAC (See above)</p> <p>RAC Chart</p> <p>E = Extremely High Risk H = High Risk M = Moderate Risk</p>																																			
Prepared by (Name/Title): Greg Bright, RRPT																																					
Reviewed by: Sean Liddy, CSP																																					
Competent Person (if applicable):																																					
<p>Notes: (Field Notes, Review Comments, etc.)</p> <p>The following outlines minimum requirements per accordance with the approved APP 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.</p>																																					
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<p>Monitoring Procedures and Action Levels (Refer to Section 3.0 of SSHPD):</p> <p><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</p> <p>Chemicals of Concern (COC): None.</p>																																					
Job Steps		Hazards	Controls																																		
Pre-trip Planning		Traffic delays, weather	-Plan your route, research construction delays, weather impacts																																		
Complete Vehicle Inspection		Unserviceable vehicles	-Inspect vehicle for deficiencies, report and correct prior to use. Complete vehicle inspection log each day prior to use.																																		
Safety Equipment		Unsecured driver, passenger, or gear and equipment	-Always use seatbelts while vehicle is in motion, lock doors. Always secure the load with a cargo net or rope. Secure all loose equipment in cab.																																		
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Job Steps	Hazards	Controls	RAC
Backing	Blind spots; unseen objects	<ul style="list-style-type: none"> -Always use a spotter when backing, check mirrors and over shoulder Back into parking spaces upon arrival, whenever possible. When preparing to move or back vehicles, walk around the vehicle 360 degrees before entering vehicle to identify any new conditions or obstructions. Use a spotter when backing whenever possible. Determine and agree upon hand signals (between spotter and driver) before attempting to back vehicle. Check the rear-view and side mirrors prior to backing (Note: All vehicles, other than automobiles, must have small convex mirrors attached to the side mirrors.) Back slowly in areas of obstructed vision. Anticipate others who may be backing out into your pathway and adjust accordingly. 	
Driving	<p>Rough road surface (potholes), sleepiness, Blind corners, reduced visibility due to dust, fog, snow, rain.</p> <p>Mobile devices</p> <p>Crossing Rail road tracks.</p>	<ul style="list-style-type: none"> -Keep eyes moving, use mirrors, follow posted signs, avoid distractions -Aim high in steering. -Maintain 15 sec eye lead time -Leave yourself an out, maintain cushion around vehicle Get the big picture; -Avoid being boxed in, adjust speed to traffic, focus on driving, -Refrain from emotional discussions/NO CELL PHONE. -When approaching a blind corner slow down to 10 mph at least 250 feet from the corner, proceed around the corner at no greater than 10 mph. -During periods of reduced visibility, reduce speeds, pull over and stop until visibility improves, increase following distance during periods of decreased visibility. -Hand held phone use prohibited. No texting. Car on, phone off. -Stop, look, and listen before crossing railroad tracks. Be aware that multiple tracks may have more than one train using them, and the trains may be travelling in opposite directions. Look for direction from track spotter (if present). 	
Parking	Collision, injury to others, possible grass or brush fire from hot vehicle parts (catalytic converter) in contact with dry vegetation.	<ul style="list-style-type: none"> -Park away from other cars, set brake, park on level terrain, use wheel chocks and turn wheels if parked on sloped terrain. -Park only in cleared areas or where vegetation beneath vehicle is less than 6 inches tall. 	
Backing	Collision with stationary objects, backing into ditch	<ul style="list-style-type: none"> -Get out and look around vehicle before backing, use a spotter. -When parking, pull through or back in when possible. 	
Driving larger trucks/vans	Blind spots; unseen objects; longer stopping; distance; wider turning radius	<ul style="list-style-type: none"> -Driver should be familiar with the vehicle they are driving set sideview mirrors to r-reduce blind spots 	
Heavy equipment operations adjacent to and on site roadways	Collisions with heavy equipment, heavy equipment backing out into roadway from side roads or work areas along the roadways.	<ul style="list-style-type: none"> -Know the increased turning radius of the vehicle vs. a small compact 	
Heavy equipment cutting roads or clearing vegetation adjacent to roadways or at locations above roadways.	Falling rocks/debris	<ul style="list-style-type: none"> -Slow speeds when approaching heavy equipment activities along or adjacent to roads. -Stop and make contact with operator or spotter to ensure it is safe to pass. -Pass only when given permission by the operator or spotter. 	

Additional Safety Considerations



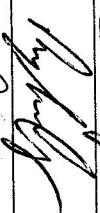



1. All employees must receive site specific safety orientation prior to beginning work on the project site. Review APP and sign acknowledgment form.
2. No Chemical Hazards anticipated.
3. Use caution around delivery trucks and stay clear if not involved in spotting operation. Use one person to communicate with driver via hand signals to avoid unnecessary confusion. Watch for overhead utilities. Wear high visibility vest or shirt at all times.
4. Maintain eye contact with equipment operator during stone installation and use proper hand signals. Do not approach running equipment unless eye contact is made, and acknowledgment is received from operator.
5. 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.
6. 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.
7. Keep clear area around work area, maintain good housekeeping practices. When possible, use mechanical equipment to perform lifting of heavy objects. When lifting, follow safe lifting practices. Use the buddy system when lifting.
8. Avoid the use of chains for lifting. If necessary, ensure chain is equipped with annual load rating cert and proper hooks being used. For synthetic slings, ensure red warning line is not showing and item is in good condition. For wire ropes, inspect for broken wires (6 in a lay, 3 in a strand).
9. 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	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.
Hand Tools	Inspect hand tools for serviceability	Use hand tools for their intended purposes. Familiarity with the equipment.
		Other Training: -Evacuation, Emergency Response & Notification Procedures IAW APP. -Safe work practices and precautions IAW APP. -OSHA qualifications and training as required IAW APP.

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
Hurtado	2/21/17	Cabrera	
Isaaca	2-20-17	ALG	
Chris Powers	2-21-17	ALG	
Rory Gray	2-21-17	ALG	
Nick Barling	2/21/17	Cabrera	
Fred, Buresdes	2/23/17	ALG	
Alexandro Galt	2/23/17	ALG	