

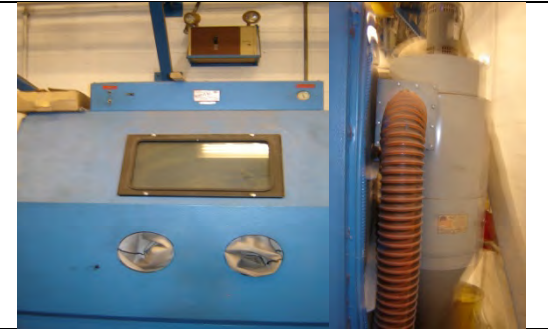


Job Safety Analysis

Safety Information for The University of North Carolina at Chapel Hill

JOB SAFETY ANALYSIS TOPIC: Energy Services

The Use of the CoGeneration Facility Maintenance Shop's
Glove Box Abrasive Blast Unit



Title	Work Task	Hazards	Controls
	<p>1. Preventive Maintenance: Add abrasive blast beads to glove box reservoir, prior to operation;</p> <p>Inspecting unit for leaks and defects.</p> <p>Disposing of accumulated abrasive blast debris</p>	<p>1. Dusts</p>	<p>1. If heavy dust is anticipated, use a N95 disposable respirator during maintenance of the glove box.</p>
	<p>Work Task</p>	<p>Hazards</p>	<p>Controls</p>
	<p>2. Obtain component to be blasted and place the component in the glove box.</p>	<p>2. None</p>	<p>2. None</p>
	<p>Work Task</p>	<p>Hazards</p>	<p>Controls</p>
	<p>3. Close glove box enclosure door, turn on light, and turn on unit, set pressure to required pounds per square inch; and ensure exhaust fan is operational</p>	<p>3. Dusts</p>	<p>3. Ensure glove box door is securely closed and exhaust fan is operational to minimize potential exposure to dust during operation.</p>

	Work Task	Hazards	Controls
	4. Place hands inside glove box gloves, and use foot pedal to apply pressure to the blast hose and nozzle, and begin blasting component.	3a) Eye irritation caused by dust and debris escaping into employees breathing zone. 3b) Noise exposure	3a) Ensure that glove box doors are securely closed. Ensure that the dust collector seals tightly to prevent leakage of dust. 3a) Use/Wear Safety glasses and/or Face Shield while blasting components. 3b) If it is hard to hear someone speaking within 3' of operating the blaster, the use of hearing protection devices (ear plugs or muffs) is recommended. Contact our IH section at 3-2735 for further evaluation of this process.
	Work Task	Hazards	Controls
Training	Employees must have hands on training in the proper use of this piece of equipment.	Supervisor must review operating procedures with employee.	
Created	17 September 2008 Daniel Gilleski		
Referenced Material	N/A		
Contact Info	For more information about this JSA and other JSAs, contact: <i>Department of Environment, Health and Safety</i> UNC-CH, 1120 Estes Drive Extension, Chapel Hill NC 27599 CB# 1650 (919) 962-5507 ● http://ehs.unc.edu		