



# Job Safety Analysis



Safety Information for The University of North Carolina at Chapel Hill

**JOB SAFETY ANALYSIS TOPIC: Energy Services**

**CoGeneration Facility Mechanical Maintenance:  
Replacing Baghouse Filters**



Title	Work Task	Hazards	Controls
	1. Obtain required equipment (e.g. personal protective equipment, tools, etc) for job.	1a. None	1a. N/A
	<b>Work Task</b>	<b>Hazards</b>	<b>Controls</b>
	2. Operating 2-Ton Capacity Hoist to move the bag house covers.	2a. Mechanical Problems with hoist.  2b. Struck By Hazard; Load striking operator or mechanic in work area;	2a. Inspect the 2-Ton hoist prior to use.  2b. Use the “buddy system” during operation and ensure verbal communication with workers in the work area is performed prior to moving loads.  2c. Personal Protective Equipment: Ensure Hard Hats, Steel-Toed Shoes, and Safety Glasses are used.

	<b>Work Task</b>	<b>Hazards</b>	<b>Controls</b>
	<p>3. Replacing bag-house filters</p>	<p>3a. Exposure to Fly Ash (breathing dust and exposure to skin)</p> <p>3b. Uneven and slippery surfaces</p>	<p>3a. Personal Protective Equipment: Use N95 filtering facepiece respirators for protection against fly ash dust prior to removing and handling bag-house filters. Use disposable tyvek coveralls if heavy skin exposure is anticipated (when removing filter socks).</p> <p>3a. Provide adequate ventilation to suppress dust (e.g. open external baghouse doors and use mechanical ventilation).</p>  <p>3b. Watch your step and be careful when walking around work areas at an elevated height or next to dips.</p> 

			3b. Be careful if employee has to stoop down on knees to perform work; ensure knee support pads are used to protect knees.
	<b>Work Task</b>	<b>Hazards</b>	<b>Controls</b>
	4. Maintenance check of bag house filters (opening baghouse hoppers to inspect filters)	4a. Fly Ash	4a. Make sure your respirator is donned appropriately. Perform a user seal check before opening the baghouse hopper door.
<b>Training</b>	Energy Services-Mechanical Maintenance Respiratory Online Training Module		
<b>Created by</b>	Daniel Gilleski, Occupational Field Hygienist Date Created: 25 September (Observed Part of Process); Wrote JSA October 2, 2008		
<b>Referenced Material</b>	29 CFR 1910.134 (Respiratory Protection Standard) UNC-CH Environment, Health, and Safety Manual- Chapter 4 (Respiratory Protection Program)		
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