




Job Safety Analysis


Safety Information for The University of North Carolina at Chapel Hill

ITEM THAT JSA IS BEING WRITTEN FOR: Energy Services

CoGeneration Facility, Plant Operations:
Waste Water Treatment Building- Addition of
Caustic and Sulfuric Acid to the Waste Water
System.



Title	Work Task	Hazards	Controls
	<p>1. Obtain personal protective equipment from the work area PPE locker before the job (as illustrated below).</p> 	<p>1a. None</p>	<p>1a. Personal Protective Equipment: Consisting of</p> <ul style="list-style-type: none"> -Face shield -Chemical splash goggles, -Chemical protective rubber aprons -Chemical protective gloves: <p>Disposable latex gloves may be used, but additional chemical resistant gloves are recommended when skin contact is possible.</p> <p>When unloading caustic drums, use Nitrile, Polyvinyl-chloride, or Neoprene gloves.</p> <p>When unloading Sulfuric drums, use Polyvinyl-chloride, butyl rubber, or polyethylene gloves.</p>

Work Task	Hazards	Controls
<p>2. Using the Wastewater Treatment Building overhead hoist to transfer a new drum of sodium hydroxide and sulfuric acid in place (1-drum each).</p>	<p>2a. Failure of hoist mechanism resulting in a spill of chemicals.</p> <p>2b. Exposure to caustic or acid</p>	<p>2a. Inspect the hoist system before operation. Follow all safe procedures for use of the hoist and clamp mechanism.</p>  <p>2b. Use all required PPE.</p> <p>2c. When possible, keep the wastewater treatment building doors open to provide good natural ventilation.</p>
Work Task	Hazards	Controls
<p>3. Opening cap to the 55-gallon caustic and acid drums and inserting the pump device.</p>	<p>3a. Splashing or getting caustic or acid on hands</p>	<p>3a. Use all required PPE as listed in work task # 1.</p>

	Work Task	Hazards	Controls
	4. Activating pump to transfer caustic and acid to the waste water system.	4a. Splashing or getting caustic or acid on hands	4a. Use all required PPE as listed in work task # 1.
Training	Only Trained Operations Auxiliary Operators are to perform this work task.	All Auxiliary Operators that perform this work task must be trained on personal protective equipment requirements upon initial assignment to the job.	
Created by	Daniel Gilleski, Occupational Field Hygienist Date Created: 10-2-2008		
Referenced Material	Center for Disease Control and Prevention, NIOSH Pocket Guide to Chemical Hazards; Environment, Health, and Safety Manual; Chapter 4, Personal Protective Equipment		
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