



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

Auxiliary Operators: Caustic and Sulfuric Acid Bulk Chemical Unloading



Title	Work Task	Hazards	Controls
<p>Note: This JSA is a Safety Supplement to the Bulk Chemical Unloading Checklist</p>	<p>1. Preplanning</p>	<p>1a. Untrained Operators that could result in an injury or accident.</p>	<p>1a. Review the bulk chemical unloading checklist and this JSA before commencing the job.</p>
	<p>Work Task</p> <p>2. Obtain required Personal Protective Equipment(PPE)/ Safety Gear from PPE Storage lockers*</p> <p>* PPE lockers are at Waste water treatment area & Boiler Chemistry Area as illustrated below.</p> <div data-bbox="541 1088 842 1458" data-label="Image"> </div>	<p>Hazards</p> <p>2a. Injury to operator as a result of improper or no use of PPE.</p>	<p>Controls</p> <p>2a. Personal Protective Equipment including:</p> <ul style="list-style-type: none"> -Face Shield -Safety glasses/chemical splash goggles -Full body CPC Gortex Suit (as illustrated below), full body rubber aprons, or other acid/caustic protective outer clothing <div data-bbox="1528 1088 1829 1393" data-label="Image"> </div> <p>-Acid/Caustic protective gloves</p>

	Work Task	Hazards	Controls
	3. Unloading hose to plant chemical receiving connection. -Disconnecting transfer hose from plant receiving station and replace cap on hose connection. -Inspect bulk chemical storage containment area for chemical accumulation. -Verify final storage tank level with control room DCS.	3a. Injury to operator as a result of improper or no use of PPE.	3a. Follow Procedures/ Steps on the Bulk Chemical Unloading Checklist. 3b. Personal Protective Equipment as indicated in step #2.
Training	Only trained Auxiliary Operators can perform this task. Employees must receive PPE training upon assignment to this job. This training must be documented.	Supervisor is to maintain proper documentation of training.	
Created	JSA Created by Daniel Gilleski, 2008		
Referenced Material	Material Safety Data Sheets for Sulfuric Acid & Sodium Hydroxide Environment, Health, and Safety Manual; Chapter 4, Personal Protective Equipment Center for Disease Control and Prevention, NIOSH Pocket Guide to Chemical Hazards;		
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		