# Job Safety Analysis

**ITEM THAT JSA IS BEING WRITTEN FOR:** Energy Services CoGeneration Facility Plant Operations

Operations Auxiliary Operators: Adding dry waste water treatment chemicals briquettes to the Nalco system tank at the Cooling Tower Shed

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|       | 1. Prepare for job and obtain bulk container of chemical briquettes to add to the system. | 1a. None | 1a. Personal Protective Equipment: Long sleeve work shirts, leather gloves/and or disposable chemical gloves, safety glasses, and a N95 filtering face piece respirator.  
1b. Review Material Safety Data Sheet for treatment chemical briquettes upon initial assignment to the job. |
<p>|       | 2. Arrive at the Waste Water Cooling Tower Shed, open door, and prepare to pour dry chemical briquettes to system. | 2a. Slips, Trips, and Falls | 2a. Ensure you have a good grip on the container when transferring it and watch for trip hazards when entering and moving within the Cooling Tower Shed. |</p>
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<td>3. Remove the lid to the containers and add the briquettes from product containers into a Nalco chemical container. (Picture of tank where briquettes are added is on the right hand side of the large steel tank with the white lid as illustrated below).</td>
<td>3a. Skin, eye, and respiratory irritation to water treatment chemicals dust when pouring briquettes. 3b. Chemical &amp; Physical Hazard (it is an Oxidizer): Unwanted chemical reaction if mixed with the wrong type of incompatible materials.</td>
<td>3a. Keep the cooling tower shed door open when pouring the container if possible. This will ensure adequate natural ventilation is provided. Ensure PPE from task #1 is used. Ensure that access to the plumbed emergency eyewash/shower unit is not blocked. 3b. Do not pour chemical materials near petroleum based materials (such as fuel and solvents).</td>
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**Training**

Only trained Operations Auxiliary Operators are to perform this work task;

Hazard Communication Standard Requirements: review material safety data sheet for treatment chemical briquettes.

Complete the EHS online self-study unit: using N95 for respiratory protection: [http://www.ehs.unc.edu/training/self_study/n95](http://www.ehs.unc.edu/training/self_study/n95)

**Created**

JSA Created by Daniel Gilleski, 11-7-2008

**Referenced Material**

Material Safety Data Sheet for Trichloroisocyanuric Acid

**Contact Info**

For more information about this JSA and other JSAs, contact: Department of Environment, Health and Safety UNC-CH, 1120 Estes Drive Extension, Chapel Hill NC 27599 CB# 1650 (919) 962-5507 [http://ehs.unc.edu](http://ehs.unc.edu)