



Western

JOB HAZARD ANALYSIS - Task Specific

NEW

REVISED

WORKPLACE TASK TO BE ANALYSED

Changing of Chlorine Gas Cylinder

DEPARTMENT

Physical Plant

WESTERN JOB CLASSIFICATION*

Mechanical Trades (plumber)

REQUIRED EQUIPMENT AND/OR PERSONAL PROTECTIVE EQUIPMENT

Breathing apparatus(SUBA), gloves, Grade 1 safety footwear

WESTERN HAZARD CATEGORY*

HAZARD TYPE*

LOSS POTENTIAL RATING*

*refer to Stantec Specific Job Report

DATE:

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REVIEWED BY:

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MGMT APPROVAL:

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SEQUENCE OF TASK

POTENTIAL HAZARDS

ACTION OR PROCEDURE

Put on breathing apparatus.	Inhalation	
Turn valve stem clockwise to close cylinder valve.		PPE, Breathing apparatus(NIOSH-approved)
Allow float in flowmeter to drop to zero. Indicator on front of gas feeder should indicate no gas.	Skin contact/absorption	Proper lifting techniques,clean work site
Wait approximately one minute. Float should remain at zero. If float flutters or does not drop to zero, valve may not be closed tightly. MAKE CERTAIN VALVE IS CLOSED BEFORE PROCEEDING.	Eye contact	Work by a trained mechanic
Turn off ejector water supply and make certain the gas supply indicator stays in the NO GAS position by turning the RESET knob. If the indicator resets, either gas pressure is still present or there is an air leak (not vacuum tight) in the system. Refer to instruction manual if an air leak is evident.		Ventilate area
Loosen gas feeder yoke screw. Remove gas feeder from valve.		
Replace gas cylinder.		
Remove old lead gasket. Inspect and clean mating surfaces of gas feeder and valve. Remove old filter floss and replace with new filter floss. Install new, unused lead gasket.		

Position gas feeder on new gas cylinder valve and tighten yoke screw. DO NOT TIGHTEN EXCESSIVELY.		
Crack open gas cylinder valve and reclose quickly. Check for leaks. If leaks exist, turn on ejector and repeat steps 2, 3 and 4 and correct leaks. Leak Test Solutions: Chlorinator/Sulfonator: Ammonia; Ammoniator: Chlorine Bleach.		Note:Do not spray any leak or spill with water a reaction producing corrosive acids will occur
Open gas cylinder valve approximately 1/4 turn only and leave cylinder wrench on valve. Reset indicator.		
Turn on ejector supply.		