

CONFINED SPACE ENTRY PROCEDURES & RESCUE PLAN

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Disk Filters

Work to be performed or location of confined space

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	Atmospheric Conditions	Details		P		Control Measures		Р	
9	Oxygen (O2) Deficiency / Enrichment	decaying material in the bottom of the tank	2	2	В	Min. 3000 cfm fan in push mode continuous, O2 (Oxygen) gas detector - continuous monitoring. Ensure sludge is cleaned from tank.	1	2	А
2	Hydrogen Sulphide (H2S)	dacaying material in the bottom of the tank	2	2	В	Min. 3000 cfm fan in push mode continuous, H2S (Hydrogen sulfide) gas detector - continuous monitoring, ensure sludge is cleaned out of tank	1	2	А
1	Carbon Monoxide (CO)	Gas and diesel vehicles driving by the tank	2	2	В	Min. 3000 cfm fan in push mode continuous, CO (Carbon monoxide) gas detector - continuous monitoring, Place air intake away from source of CO	1	2	А
			Ir	niti	tal		F	Final	
	Hazards / Exposure	Details		Р		Control Measures	P		
27	Restricted Access / Egress	must employ a ladder to enter the tank	2	2	В	Caution when climbing ladder(s) - maintain 3-point contact. Stay hooked up to rescue winch	1	2	А
35	Engulfment or Immersion Hazards	Risk of flooding from filter influent and filter effluent	2	2	В	Lock out procedures attached. Any potential leakage from the upstream gate will be visually checked every 20 minutes by the standby person, each tanks contain a 4" gravity drain that will be left in the open position while the tank is occupied. The water level in the upstream channel will be continuously monitored with a local audio/visual high level float set to 2.5 m while space is occupied. If the water level rises above 2.5 m the alarm will sounds and a light will flash (leaving 500mm of freeboard). The confined space will be evacuated and the issue will be addressed prior to re-entry.	1	2	А
37	Falling Hazard	climbing over railing and into open tank with machinery inside	2	2	В	Fall protection plan attached, ensure staff performing the entry/work do not have an existing fear of heights.	1	2	Α
50	Overhead / Falling Object Hazards	tools and materials could be kicked into	2	2	В	Kick-boards, Keep work area clear of obstructions. Hardhat must be worn by person entering tank. Worker must stay attached to life line at all times	1	2	А

		the open tank								
32	Mechanical / Moving Part Hazards	rotating assembly inside tank	2	2	В	Lockout procedures attached	1	2	F	4
23	Heat / Cold Stress Exposure	Out door temperature	2	2	В	Take breaks in a cool environment, Take breaks in a warm environment	1	2	F	4

Area Preparation:

- 1. Drain and clean both filters that will remain in service durring the work as per Cloth Cleaning procedure prior to Lockout and Isolation.
- 2. Isolate and Lockout.
- 3. Keep area around tank clear of tools and equipment.
- 4. Drain and clean filter to be worked on and space as per Cloth Cleaning procedure, ensure bottom of tank is clear of sludge.
- 5. Install and test Float Switch High Level Alarm to alarm at 2.5 meters from bottom of upstream channel.
- 6. Install float operated pump in the downsteam chamber
- 7. Install and test Float Switch High Level Alarm to alarm at 0.1 meters from bottom of downstream channel.

Confined Space Entry Procedures - Supplementary Instructions:

1. Follow moderate hazard confined space entry procedure and lock out procedure

Confined Space Entry Rescue Plan:

1. Follow confined space emergency procedure