

**PLUMBING SHOP
PLUMBER//SR. PLUMBER
Ref. Code: P-P-3**

REPAIRING AND REPLACING CIRCULATORS AND EJECTOR PUMPS		
Activity	Hazard Identification	Required Precautions
1. Driving to and from work site.	1. Motor vehicle accident; striking pedestrians, bicyclists, or individuals using rollerblades.	1. Wear prescription lenses, if required, and seatbelt. Verify that all equipment on vehicle is secured properly. Stay alert for pedestrians, bicyclists, and individuals using rollerblades.
2. Using stepladder.	2. Ladder collapsing; slipping/falling from ladder.	2. Inspect ladder before use. Use ladder of proper height. Make sure ladder is properly assembled and locked and standing on level ground. Do not exceed weight limit for ladder. Do not stand on top of ladder or on top rung. Have coworker hold ladder.
3. Working in tunnels or other confined spaces.	3a. Serious illness due to lack of oxygen or exposure to methane gas.	3a. Before working in confined area, verify that it is safe by monitoring air (get confined space permit as required). While working, always ventilate area using fan. In vertical tunnels, always use tripod and harness in case worker becomes ill and must be pulled up. Always have at least one person outside confined area to monitor safety of those working inside.
	3b. Dark work area.	3b. Replace burned out bulbs. Use flashlights or droplights, plugged into GFCI-protected outlets, as auxiliary lighting.
	3c. Working for long periods of time in cramped position can lead to backache or neck ache.	3c. Leave confined area frequently to stretch out.
4. Lifting heavy weight.	4. Back strain; overexertion.	4. Know your weight-lifting capacity and get help if needed. Lift with legs. Keep back straight. Use mechanical lifting equipment if necessary.

5. Working with electric pumps.	5. Electric shock; electrocution.	5. Before beginning work, turn off pump. Lock out switch to prevent it from being turned on again during job.
6. Working with sewage pump.	6. Illnesses resulting from sewage splashed on self.	6. Wear rubber gloves and safety glasses.
7. Working near hot water pipes and steam pipes.	7. Burns from hot pipes, hot steam, or hot water.	7. Before beginning work, turn off water and request that UPS or HVAC shop turn off steam in the area if possible.
8. Using electric saw and roto-hammer.	8a. Electric shock; electrocution.	8a. Keep power cord away from work area. Plug tools into GFCI-protected outlet. Do not use drill if work area is wet. Before drilling into a wall, survey area for power lines, water lines, air conditioning ducts and other safety hazards.
	8b. Tripping over or cutting power cord.	8b. Keep power cord away from work area.
	8c. Burns/lacerations to skin or eyes from flying sparks and debris; debris embedded in eyes; inhalation of debris.	8c. Wear safety glasses, and optionally, long-sleeve shirt, coveralls, and/or dust mask.
	8d. Saw catching; loss of control of saw or roto-hammer; severe lacerations; dismemberment.	8d. Deep tools in good condition. Inspect tools before use. Verify that guards work properly. Keep hands away from blades. Hold saw or hammer securely to maintain control.
9. Using hand tools.	9. Cuts, pinches, smashes, punctures, severing of fingers.	9. Keep tools in good condition. Inspect tools before use. Wear safety glasses. Work away from yourself. Use normal caution required for all hand tools.