

HEATING/CHILLED WATER OPERATOR

Ref. Code: C-WO-2

OPERATING STEAM REDUCING STATIONS		
Activity	Hazard Identification	Required Precautions
1. Operating steam valves.	1a. Severe steam burns.	1a. Turn off both inlet and outlet steam valves. Verify that the valves are not leaking.
	1b. Water hammer causing pipe to burst.	1b. When possible, open purge valves, which may be located on the strainer.
	1c. Pinching fingers.	1c. Handle materials carefully.
	1d. Slipping on grease drippings.	1d. Clean up any spilled oil using Virginia 10 or equivalent product.
2. Cleaning strainers.	2. Severe steam burns.	2. Isolate steam valves to gain access to strainer. Verify that the valves are not leaking.
3. Using stepladder or mechanics ladder.	3. Ladder collapsing; slipping/falling from ladder.	3. 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.
4. Using extension ladder.	4. Ladder falling; slipping/falling from ladder.	4. Inspect ladder before use. Verify that ladder is properly assembled and that it is securely positioned on level ground. Use 1'-4' rule. Use OSHA decal to verify that the ladder is in the proper position. Verify safe means of climbing on/off ladder.
5. Using interior scaffolding.	5. Scaffolding collapsing; falling from scaffolding.	5. Verify that scaffolding is properly assembled and wheels locked. Use safety rails properly. Verify a safe means of climbing on/off scaffolding.
6. Using electric-operated lift.	6. Falling/slipping.	6. Make sure outriggers are secure and/or have coworker below standing watch. Make sure lift is properly assembled and positioned on level ground.

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7. Using hand tools, including large pipe wrenches.	7a. Cuts, pinches, smashes, punctures, severing of fingers.	7a. Keep tools in good condition. Inspect tools before use. Wear safety glasses. Work away from yourself. Use normal caution required for all hand tools.
	7b. Wrench slipping and worker hitting self or others with wrench or dropping wrench on self or others.	7b. Wear a hard hat. Handle tools carefully with dry gloves or hands. Make sure you have a firm footing so you do not fall.
8. Working in central boiler plant.	8a. Getting burned by steam, hot water, or hot oil.	8a. Wear proper protective clothing. Be aware of your surroundings and of possible leaks.
	8b. Inhalation, skin exposure, or irritation to eyes from contact with soot, silica, waste oil contaminants, solvents, oil additives, and ceramic fibers.	8b. Wear proper protective clothing. Be aware of unusual odors (e.g., natural gas) that could signify leaks.
	8c. Electric shock; electrocution.	8c. Always use GFCI protectors.
	8d. Damage to eyes from bright flame intensities.	8d. Wear eye protection.
	8e. Explosion from leaking gas.	8e. Be aware of odors that could signify leaks. If you smell gas, evacuate the area and alert the dispatcher.
	8f. Slipping on water or oil on floor.	8f. Clean up any standing water or oil. Identify leak and repair it if possible.
	8g. Excessively hot temperatures; heat exhaustion.	8g. Take frequent breaks in cooler areas. Drink plenty of liquids.
	8h. Loss of hearing due to loud noise.	8h. Wear earplugs or earmuffs.
	8i. Tripping.	8i. Survey work area for hazards. Walk carefully.
	8j. Inhalation of dust.	8j. Wear dust mask.
	8k. Failed open valves will cause steam discharge that could cause oxygen deficiency, loud noise, lack of visibility, and excessive heat.	8k. Shut off steam to the building and isolate the leaking pressure-reducing valve.