



Hazards	hoisting over bunker tanks, falling, hitting vent pipes, tripping over barrels, run away barrels on ramp, congested aisles, back strain, jamming fingers, wet floors, hot piping, splashing chemicals, tank overflowing, adding chemicals to wrong boiler, blowing too much chemical out, emptying boiler of water
Tools/Equipment	four-wheeled dolly
Employee Group(s)	Facilities Management – Central Heating Plant

Required PPE:



Safety Shoes



Eye Protection



Gloves



Face Shield



Protective Suit

SAFE WORK PRACTICES

- Do not perform the procedure or operate the equipment until you have been appropriately trained and authorized to do so by your supervisor.
- Inspect required personal protective equipment (PPE) and replace if required.

PROCEDURES

- **Handling Chemicals:-**
 - 1) Unload chemicals to backyard of the CHP using cargo net. Operator should act as spotter for directing boom truck operator.
 - 2) Place chemical barrel on four-wheeled dolly. Use caution when placing barrel on dolly and get help if needed.
 - 3) Move chemicals to chemical storage area. Use extra caution when wheeling dolly through doorway to storage area. Be aware of pinch areas. Avoid wet spots when possible.
 - 4) Place barrel on spill pallet. Align ramp to pallet and ensure it is securely in place. Use assistance when parking barrel on spill pallet.
- **Testing Chemicals:-**
 - 1) Turn Sample cooler on.
 - 2) Select boiler sample. Inspect for leaks and adjust stem packing.
 - 3) Take water sample.
 - 4) Record reading and pour out old sample. Determine chemical to add. Close sample valves.
- **Adding Chemicals:-**
 - 1) Fill chemical tank with water and retrieve chemicals required from chemical barrel. Ensure walkways are clear of tripping risks and slipping hazards. Stay with tank until it is full.
 - 2) Add chemicals to injection barrel. Pour slowly being sure to wear required PPE. Ensure chemical injection pumps are for boiler tested. Double check valve line up.
 - 3) Turn on pump.

NOTE: All PPE, tools and equipment shall be used in accordance with provincial OH&S legislation, manufacturer's specifications, applicable standards and codes of practice.



- 4) If required, open CBD or Main BD. Make a note of how long you have to blow down. Add to logbook. Stay with main BD when open – 10 to 15 seconds.
- **Chemical Dosing for Filling Boiler**
 - When cleaning is complete and it is time to add water to the boiler, the chemical dosing that should be added are the following:-
 - Continue chemical addition until readings are in the range for alkalinity is in the 500.
 - 150 oz. of caustic 50/50
 - 50 oz. of sulphate 30/70
 - Continue adding chemicals until readings for alkalinity are in the range of 500.
 - Continue adding Sulphate until it is in the range of 100.