

Attachment J-C20.4

Plumbing and Utility Distribution Work Instructions

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SOW Item No. C20-02
Backflow Preventer Annual PM

The technician is responsible to properly test and report the status of each device tested and accurately record the test results.

Complete FORM C-607 for each backflow preventer and provide hard copy to COR.

- __1. Test and calibrate check valve operation of backflow preventer with a test set.
- __2. Bleed air from backflow preventer.
- __3. Inspect for leaks under pressure.
- __4. Clean backflow preventer and surrounding area.
- __5. Test for objects lodged in seat or disc.
- __6. Test for worn or loose disc or disc guide assembly.
- __7. Check for damage to seat.
- __8. Check for corrosion build-up.
- __9. Return to service, making sure that air is vented from both check valve chambers.
- __10. Fill out maintenance report/record.

SOW Item No. C20-03
High Pressure Steam Regulator Annual Relief Valve Test

- __1. Check relief valve data plate for set pressure.
- __2. Note all relief valves are ASME class VIII valves 10% overpressure.
- __3. Check that the relief valve seal is not broken.
- __4. Close low pressure discharge valves after regulator(s) and close valves to low pressure steam (LPS).
- __5. Install calibrated gage on piping between relief valve and bypass valve.
- __6. Open bypass or regulator (if needed) slowly. WARNING: Suitable hearing protection should be worn.
- __7. Watch gage and note at what pressure the relief valve lifts off seat. Continue to open valve until fully open. Note pressure. Close valve and note reseal pressure.
- __8. Complete FORM C 4030.

SOW Item No. C20-04
Sump Pump Annual PM

- __1. Flush pit and pump out any debris in basin.
- __2. Check floats, rods, and switches for damage. Repair if necessary.
- __3. Verify operation of floats and alarms to EMCS if present.
- __4. Check intake and discharge piping.
- __5. Inspect and lubricate, if required.
- __6. Inspect check valves for proper operation.
- __7. Fill out maintenance report/record.

SOW Item No. C20-05
Emergency Shower/Eyewash Annual PM

All emergency shower and eyewashes shall be inspected and tested in to ensure they are in conformance with ANSI Z358.1. The following are the minimum requirements:

Safety Shower:

- __1. Visually inspect water be to free of dirt, rust or scale, if not flow until water is clear.
- __2. Check control valve shall go “off” and “on” in one second and valve must remain “on” until intentionally shut “off”, (replace if necessary)
- __3. Check shower nozzle for uniform flow, if not clean or replace.
- __4. Check shower shall be capable of delivering water, should be 20 gallons per minute.
- __5. If supplied by tepid water, check operation of system and measure and record water temperature.
- __6. Fill out maintenance report/record

Eyewash station:

- __1. Visually inspect water to be free of dirt, rust or scale, if not flow until water is clear.
- __2. Check control valve shall go “off” and “on” in one second and valve must remain “on” until intentionally shut “off”, (replace if necessary)
- __3. Check nozzles for uniform flow and rise to approximately equal heights. If not, clean or replace
- __4. Check capable of delivering water no less than 0.4 gallons per minute.
- __5. Visually inspect the protective caps and replace if missing or needed.
- __6. If supplied by tepid water, check operation of system and measure and record water temperature.
- __7. Fill out maintenance report/record.

SOW Item No. C20-06
Kitchen Grease Trap Annual PM

For Buildings 15 and 340:

- __1. Check grease traps quarterly.
- __2. Clean grease traps a minimum of once per year.
 - a. Remove solids from bottom of chamber.
 - b. Inspect interceptor and clean if necessary.
 - c. Check all passages, including air relief are clear of obstructions.
 - d. Check baffles.
- __3. If damages or missing parts are seen repair or replace them as needed to ensure proper working operation.