



Date: 10/10/2023
Facility ID: PA062
Work Order # 14054
Boiler ID #2 6610

Comprehensive Annual Boiler PM Inspection Worksheet

1. General Assembly

- a. Secure all circuits: electrical, gas, steam water and blowdown and drain boiler
- b. Open the fire and water side for inspection
- c. Clean as required, including scale through the handholes
- d. Check surfaces and water side for corrosion, pitting, scale, blisters bulges and soot
- e. Inspect the refractory
- f. Check the expansion tank and air vents, drain if needed
- g. Clean the fire inspection glass
- h. Check blow-down valve packing and lubricate
- i. Check and test boiler blow-down valve
- j. Perform hydrostatic test, if required
- k. Reassemble and pressure test at operating pressure

2. Gas Train Burner Assembly

- a. Check the gas train isolation valves for leaks
- b. Check the gas supply piping for leaks
- c. Check the gas pilot solenoid valve for wear and leaks
- d. Check main gas and pilot gas regulators for wear and leaks. Note any oil leaks from actuator
- e. Test the low gas pressure switch. Calibrate and record setting.
- f. Test the high gas pressure switch. Calibrate and record setting
- g. Verify the operation of the burner fan air flow switch
- h. Inspect and clean the burner assembly
- i. Inspect and clean the pilot igniter assembly. Calibrate the electrode
- j. Inspect and clean the burner fan and air intakes
- k. Inspect the flue and flue damper. Verify free damper operation.

3. Burner Control Panel

- a. Inspect the panel for cleanliness
- b. Inspect wiring and connections for tightness and signs of overheating/discoloration
- c. Clean burner fan wheel and air dampers. Check fan for vibration.
- d. Verify tightness of the linkage set screws
- e. Check the gas valves against leakage (where test cocks are provided).

4. Controls and Safeties

- a. Disassemble, inspect, and clean the low water cutoff safety device. Verify free movement of components
- b. Reassemble the boiler low water cutoff safety device with new gaskets and specialty bolts
- c. Remove plugs in piping above and below low water cutoff and inspect piping
- d. Clean the contacts in the program timer, if applicable
- e. Check the operation of the low water cutoff safety device and feed controls.
- f. Verify the setting and test the operations of the operating and limit controls

INSPECTION NOTES:

Inspected all safety switches check relief valve cleaned igniters Inspected fire box

Inspected wiring in boiler checked for gas leaks Run boiler all tested out

Tested limit switch



CSS TICKETS NEEDED:

