



BOILER MAINTENANCE CHECK LIST

Monthly inspection on combustion and mechanical systems are just as important as chemical treatment. It is simply not enough to just visually inspect a system. Combustion Technology technicians will use analyzers and perform the following:

BOILER PREVENTATIVE MAINTENANCE

1. Check operation of controls, limits, and safeties.
2. Check blowdown.
3. Check flame safeguard control.
4. Check operation and feed pumps.
5. Check operation of condensate tank and feed controls.
6. Check operation of deaerator.
7. Check operation of water softener.
8. Check operation of chemical systems.
9. Check operation of dampers and linkages.
10. Minor adjustments of linkages.
11. Visually check combustion chamber.
12. Visually check valves, piping and supports.
13. Visually check gas train and valves.
14. Visually check oil train and valves.
15. Check combustion efficiency using electronic analyzer.

- A. Flame Signal Pilot _____ Main _____
- B. O2 Reading Low _____ High _____
- C. Stack Temp. Low _____ High _____
- D. Efficiency Low _____ High _____
- E. CO Reading Low _____ High _____

Annual open & close inspection.

FIBERTUBE PREVENTATIVE MAINTENANCE

Boiler must be cool and drained before our personnel arrive at site.

We will perform the following tasks:

1. Open front and rear doors.
2. Remove handhole and manway cover plates.
3. Was any mud from waterside.
4. Inspect tubes for signs of leakage and report to customer.
5. Remove low water cutoff heads.
6. Remove caps and plugs from crosses for inspection.
7. Do minor repairs to refractory.

After inspection:

8. Replace manhole and handhole cover plates with new gaskets.
9. Reinstall low water cutoff heads with new gaskets.
10. Reinstall plugs and caps on crosses.
11. Regasket front and rear doors and close.
12. Refill boiler and check for leaks.
13. Check and clean ignition and pilot assembly.
14. Check safeties and interlocks for proper operation.
15. Start boiler and set combustion on one fuel.
16. Clean up area.
17. Make recommendations to customer if needed repairs.

WATERTUBE PREVENTATIVE MAINTENANCE

Boiler must be cool and drained before our personnel arrive at site.

We will perform the following tasks:

18. Open firebox doors.
19. Remove manway cover plates.
20. Wash any mud from mud drum.
21. Inspect steam drum baffle plates.
22. Inspect tubes for signs of leakage and report to customer.
23. Remove low water cutoff heads.
24. Remove caps and plugs from crosses for inspection.
25. Do minor repairs to refractory.

After inspection:

26. Replace manhole cover plates with new gaskets.
27. Reinstall low water cutoff heads with new gaskets.
28. Reinstall plugs and caps on crosses.
29. Re-gasket firebox doors and close.
30. Refill boiler and check for leaks.
31. Check and clean ignition and pilot assembly.
32. Check safeties and interlocks for proper operation.
33. Start boiler and set combustion on one fuel.
34. Clean up area.
35. Make recommendations to customer of needed repairs.