

U.S. Postal Service
INTERNAL INSPECTION CHECKLIST – FIRE TUBE BOILER

Certificate Issued
 Yes No
 Temporary

Expiration Date

(Continue on reverse)

Postmaster		Building			City and State		
Boiler Type <input type="checkbox"/> Hot Water <input type="checkbox"/> Steam		Manufacturer		Safety Relief Valve Setting (psig)		Boiler Operating Pressure (psig)	
Boiler No.	Boiler	Model	Burner	Serial No.	Model No.		Capacity
Size BTU/HR (or) BHP		Date Installed		Date Last Hydrostatic Test	Fuel Primary Secondary		No. Months Per Year Boiler Normally Operated

Reference Criteria: National Board Inspection Code, ASME and Pressure Vessel Code.

ITEM	(✓)	REMARKS
1. Boiler General: Review Form 4772, Equipment Inventory History Record (I-204.6)		
a. Evidence of leakage or corrosion (I-203)		
b. Evidence of cracking, burning or bagging		
c. Boiler parts free to expand under operating conditions.		
2. Setting		
Satisfactory Condition of		a. Brickwork
		b. Buckstays
		c. Foundation
3. Main Piping (I-203.5)		
a. Proper stop and non-return valves		
b. Adequacy of drains in steam leads		
c. Proper supports and anchors		
d. Piping free to expand		
4. Blow-Off (I-203.6)		
a. Proper valves and piping		
b. Evidence of leakage of valves		
c. Freedom for expansion of piping		
d. Adequacy of blow-off tanks vent		
e. Observe test of blow-off valves		
5. Feed Water System (I-203.4)		
a. Proper arrangement of stop and check valves		
b. Evidence of external corrosion particularly where pipe passes through smoke box		
c. Adequate means of feeding boiler		
d. Source of feed water and make up		
e. Maximum amount of condensate returned to boiler		
f. Condition of expansion tank		
6. Water Column and Gauge Glass (I-203.2)		
a. Proper arrangement of piping valves, gauge cocks, blow-off drain piping		
b. Clear visibility of water level.		
c. Observe test of column and glass		

Reference Criteria: National Board Inspection Code. ASME Boiler and Pressure Vessel Code.

ITEM	✓	REMARKS
7. Low Water Cut Out and Automatic Feeder (I-203.4 CSD-1 CW120, CW310)		
a. Proper arrangement		
b. Observe test		
8. Gauges (I-204.1)		
a. Check calibration of pressure gauge using master gauge		
b. Check temperature gauge by comparing reading with accurate Mercury bulb thermometer.		
9. Firing (I-303.6)		
a. Evidence of flame impingement (I-303.17)		
b. Evidence of serious over-firing		
c. Evidence of excess slagging due to poor fuel or improper combustion.		
d. Adequate air supply in closed boiler system		
e. Flue and chimney satisfactory		
f. Damper and control satisfactory		
g. Automatic firing equipment suitable and in good condition		
h. Observe test of controls (CSD-CM1, Part CF)		
10. Safety Controls (CSD-1, I-203.4)		
a. Properly maintained and in satisfactory operating condition		
b. Periodically tested by operator (<i>review operating log</i>) Form 4846		
Observe test of	c. Low water cut out	
	d. Automatic feed	
	e. Pressure or temperature control	
	f. Fuel and draft interlock	
11. Safety Valve or Relief Valve (I-203.3)		
a. Adequate size, and capacity		
b. Proper setting		
c. Satisfactory operation condition		
d. Discharge pipe free of obstruction and properly anchored		
e. Observe pop test of safety valve (Record opening, closing pressure)		
12. Water treatment		
a. Review treatment log and test reports and evaluated adequacy of program MS-24 Chap. 6		
13. Results of latest flue gas analysis		
a. Date	b. Results % CO ₂	c. Flue Temp. °F
		d. Excess Oxygen %
		e. Efficiency %
REMARKS (<i>Continued</i>)		
Person Responsible for Preparing Boiler for Inspection and Assisting Inspector		
Printed Name and Title		Signature
Inspector		
Date Signed	Printed Name	Signature