

LOW PRESSURE STEAM BOILERS**Rule 27 (R-408.4027)/CSD-1 Required Testing****Boilers Greater Than 400MBH (400 lbs./steam/hr.)****And Less Than 12,500MBH (12,500 lbs./steam/hr.)****REQUIREMENT FOR COMPLIANCE OF RULE**

Rule 27 requires the owner to ensure that the assembly, maintenance, operation and testing of controls and safety devices shall be conducted in accordance with ASME code CSD-1.

The following minimum requirements for testing of controls and safety devices are:

ITEM	Frequency	Personnel	Remarks
1. burner/combustion controls	annual (1)	service technician	manufacturers Instructions
2. high/operating safety limits	annual (1)	service technician	manufacturers Instructions
3. low water fuel cutoff	monthly (2)(3)	user/operator	column or slow drain test
4. safety/relief valves	monthly (2)	user/operator	manually with 75% of set pressure on boiler, or tested by manufacturers representative

Testing shall be conducted in accordance with the manufacturer's instructions.

Personnel who conduct the testing are not required to be licensed under the act. The owner or user shall provide the inspector, at the time of certificate inspection, with evidence showing what tests have been completed. The inspector may require additional testing if deemed necessary.

Note (1): Proof of testing-A service invoice/report which details the testing that was completed.

Note (2): See the reverse side of this page for an Example Boiler Log for user documentation.

Note (3): Column drain (quick drain test) or slow drain test acceptable (see log-Note 3).

Informational note: R408.4518 Rule-518 requires low water fuel cutouts be inspected once every inspection cycle (certificate inspection), documentation needed for inspector to verify.

Low Pressure Steam Boiler Log
 Suggested Outline for Compliance to CSD-1 Requirements
 Boiler Log for Low Pressure Steam Heating Systems
 (* Signifies Rule27/CSD-1 Required Testing)

	Check Boiler Water Level in Sight glass (See Note*1)	Check Boiler Pressure On Gauge (See Note*2)	*Drain /Test Low Water Fuel Cut-Out (See Note *3)	*Manually/Hand Test Boiler Safety/Relief Valve (*4)	Check/Observe Burner Operation (See Note *5)	Comments Or Observations
Jan						
Feb						
Mar						
Apr						
May						
Jun						
Jul						
Aug						
Sep						
Oct						
Nov						
Dec						

Note *1: *Always be sure there is a water level visible in the Boiler=s sight glass before any further testing.**

Note *2: Normal boiler/system pressures varies with each steam system/building application (from 0 to 12 psi).

Note *3: Either a LWCO Column Drain or Slow Drain Test is acceptable for compliance to Rule 27/CSD-1.

Note *4: When testing boiler safety/relief valves **Use Caution**-Steam Temperatures can be up to 220-250 F.

Note *5: Some burner configurations have a Pre-Purge/Pilot/Main Flame/Post Purge Cycle(s).

*****Always Use Caution When Operating Boiler Safety Devices and Controls*****
