

# KLS MINIATURE HOBBY BOILER SAFETY CHECK and WITNESS Form\*

Owner's Preparation: (Review KLS: Policies, Note: Appendix B)

1. Close all accessory & or auxiliary valves such as blowers, drain cocks, and blow-down valves etc.
2. Blank, disable, or remove pressure relief valves.
3. Open smoke box door.
4. Fill boiler to top of steam dome with water.
5. Attach pump hose fitting directly to boiler. This may be through the top of steam dome if pressure relief valve(s) has been removed, boiler fill fitting or similar.

KLS miniature hobby boiler owner's procedures to follow with witness: (Witness to put a check in the box as you proceed):

***Check the box if the question is true, information provided and or the procedure completed!***

**Press Hard to assure a good copy.**

1.  Check WSDL&I Boiler and Locomotive Identification number. It is: \_\_\_\_\_
2.  Confirm the certified WDL&I Maximum Allowable Working Pressure: \_\_\_\_\_ PSI.
3.  Is there a minimum of 2 ways to put water into boiler one while the Locomotive is stationary?\*
4.  Is there 2 or more pressure relief valves, a working whistle, and site glass as per KLS Policies\*.
5.  Check accuracy of locomotive pressure gauge as part of step 6. If the gauge is not accurate, replace it or have it repaired. Caution: do not exceed the maximum reading on the pressure gauge in step 6!
6.  Increase Boiler pressure to 1.5 X psi maximum allowable working pressure. This may require the removal of the locomotive pressure gage. Hold at 1.5 X psi then inspect Boiler in all accessible areas for leaks. (steam dome, smoke box, and fire box). Hydro PSI: \_\_\_\_\_
7.  If Boiler fails to hold pressure, or has excessive leaks, repair as necessary and repeat hydro procedure. (be sure that the cylinder cocks are turned off for example)
8.  Remove all test equipment. Replace pressure relief valve and or, blanking/plugs and lower water level ready for steaming.
9.  Fire boiler and raise pressure to maximum normal operating pressure. It shall be at or below the maximum operation pressure as noted in 2 above.
10.  Check that the first pressure relief valve blows at maximum allowable operating pressure or less minus 5 psi for the high setting valve. Note Relief Valve's Low PSI reading here: \_\_\_\_\_ PS.I.
11.  Hold down (temporarily disable) 1<sup>st</sup> pressure relief valve and show that 2<sup>nd</sup> relief blows at maximum operating pressure or 5 psi above the low valve. High PSI reading: \_\_\_\_\_ PSI  
*ASME PG-72.2 states that above 70 to and including 300 psi, a 3% variance is ok.*
12.  Test the whistle.

I **hereby** certify that this hobby boiler has passed the above procedures and is **therefore** ok as of today's date.

Locomotive Owner's full printed name: \_\_\_\_\_

Locomotive Owner's Signature: \_\_\_\_\_

Locomotive road number: \_\_\_\_\_ Road name: \_\_\_\_\_

Wheel arraignment: \_\_\_\_\_

KLS Witness: \_\_\_\_\_ Date: \_\_\_\_\_

The white copy is for the owner and the yellow copy is for KLS.

\*Note: KLS does not check hobby boilers, you the owner is responsible for the above. Appendix B of the KLS Policies for additional requirements for steam engines to run at KLS.