Federal Railroad Administration, DOT § 229.114  

(b) Each steam pressure gauge on a steam generator shall have a siphon that prevents steam from entering the gauge. The pipe connection shall directly enter the separator and shall be steam tight between the separator and the gauge.

§ 229.109 Safety valves.  
Every steam generator shall be equipped with at least two safety valves that have a combined capacity to prevent an accumulation of pressure of more than five pounds per square inch above the allowed working pressure. The safety valves shall be independently connected to the separator and located as closely to the separator as possible without discharging inside of the generator compartment. The ends of the safety valve discharge lines shall be located or protected so that discharged steam does not create a hazard.

§ 229.111 Water-flow indicator.  
(a) Steam generators shall be equipped with an illuminated visual return water-flow indicator.  
(b) Steam generators shall be equipped with an operable test valve or other means of determining whether the steam generator is filled with water. The fill test valve may not discharge steam or hot water into the steam generator compartment.

§ 229.113 Warning notice.  
Whenever any steam generator has been shut down because of defects, a distinctive warning notice giving reasons for the shut-down shall be conspicuously attached near the steam generator starting controls until the necessary repairs have been made. The locomotive in which the steam generator is located may continue in service until the next periodic inspection.

§ 229.114 Steam generator inspections and tests.  
(a) Periodic steam generator inspection. Except as provided in §229.33, each steam generator shall be inspected and tested in accordance with paragraph (d) of this section at intervals not to exceed 92 days, unless the steam generator is isolated in accordance with paragraph (b) of this section. All non-complying conditions shall be repaired or the steam generator shall be isolated as prescribed in paragraph (b) of this section before the locomotive is used.  

(b) Isolation of a steam generator. A steam generator will be considered isolated if the water suction pipe to the water pump and the leads to the main switch (steam generator switch) are disconnected, and the train line shut-off-valve is wired closed or a blind gasket is applied. Before an isolated steam generator is returned to use, it shall be inspected and tested pursuant to paragraph (d) of this section.  
(c) Forms. Each periodic steam generator inspection and test shall be recorded on Form FRA F 6180–49A required by paragraph §229.23. When Form FRA F 6180–49A for the locomotive is replaced, data for the steam generator inspections shall be transferred to the new Form FRA F6180–49A.  
(d) Tests and requirements. Each periodic steam generator inspection and test shall include the following tests and requirements:  
(1) All electrical devices and visible insulation shall be inspected.  
(2) All automatic controls, alarms, and protective devices shall be inspected and tested.  
(3) Steam pressure gauges shall be tested by comparison with a dead-weight tester or a test gauge designed for this purpose. The siphons to the steam gauges shall be removed and their connections examined to determine that they are open.  
(4) Safety valves shall be set and tested under steam after the steam pressure gauge is tested.  
(e) Annual steam generator tests. Each steam generator that is not isolated in accordance with paragraph (b) of this section, shall be subjected to a hydrostatic pressure at least 25 percent above the working pressure and the visual return water-flow indicator shall be removed and inspected. The testing under this paragraph shall be performed at intervals that do not exceed 368 calendar days.  

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