

Hot Water Boilers

Project Name:	Unit No.
Job Number	Location No.
Date:	Bar Code:

Commissioning Review Prior to Writing Functional Performance Tests

To be completed by Commissioning Engineer assigned the task of design review during the Design Phase

To be completed by Commissioning Engineer when contracted to start commissioning services in the Construction Phase of the project.

	Check Complete
Guidelines	
Confirm there is safe access to the equipment and around the equipment	<input type="checkbox"/>
Confirm there is adequate access for maintenance service and equipment removal	<input type="checkbox"/>
Confirm there will not be short-circuiting of boiler flue exhaust or relief vent gas into air intakes and/or other building openings	<input type="checkbox"/>
Confirm noise levels with boiler(s) operating in NC (noise criteria) in room	<input type="checkbox"/>
Confirm noise levels will not disturb neighborhood	<input type="checkbox"/>
Complete missing equipment data sheet for CMMS when providing initial preventive maintenance work order requirement	<input type="checkbox"/>
Verify combustion air requirement	<input type="checkbox"/>
Verify summer ventilation if boiler is to operate year-round	<input type="checkbox"/>
Verify adequate equipment room ventilation	<input type="checkbox"/>
Verify boiler room is at atmospheric pressure or positive pressure (not negative pressure)	<input type="checkbox"/>
Spot check heating capacity based on dividing the BTUH by square feet of area served for BTUH/SqFt	<input type="checkbox"/>
Spot check pump head pressure by comparing with "rule-of-thumb" pump head of 40 to 50 feet for a hot water heating system	<input type="checkbox"/>
Recommend gages around boiler be manifold and use one common gage	<input type="checkbox"/>
Recommend gages around pump be manifold and use one common gage	<input type="checkbox"/>
Spot check inlet steam pressure with available steam pressure after control valve	<input type="checkbox"/>
Spot check water pipes are not exposed to outdoors conditions (i.e., run in front of air intake louver)	<input type="checkbox"/>
Spot check pipe sizing	<input type="checkbox"/>
Spot check adequate floor drains and funnel drains around boiler	<input type="checkbox"/>
Spot check for backflow preventor	<input type="checkbox"/>
Spot check for chemical treatment workstation and appropriate eye-wash station	<input type="checkbox"/>
Have a system flow diagram when starting up the equipment with estimated flows, pressure, and pressure drops noted on diagram	<input type="checkbox"/>
Refer to Equipment Manufacturer's literature for additional data and requirements	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>

Notes:
