2008 Boiler and Pressure Vessel
Specialty Code Adoption
Code changes

Item # (chapter)	Section number	Submitted proposal #	Comment	Committee Action	Board Action
Section1 - General					
Introduction and Purpose	1.1, 1.2		The NBIC Installation Code identifies minimum safety requirements for installation of pressure retaining items when mandated by the jurisdiction.		
Section 2 - Power Boilers					
Scope	2.1		Some installation requirements in this section would be in addition to CSD-1 and Code of Construction requirements and are identified below in 2.3.		
Supports, Foundations, Settings	2.3.1		New		
Structural steel	2.3.2		New		
Clearances	2.3.3		Must have 36" clearance on each side, front and top of boiler, clearance on top of 84" for boilers with manways.		
Boiler Room Requirements	2.4		All requirements found in section 2.4 would be in addition to CSD-1 and Code of Construction requirements.		
Exit	2.4.1		Two means of exit for each elevation in boiler rooms with 500 sq. ft. floor area and the boiler or boilers having 1,000,000 BTU or more fuel capacity.		
Ladders & Runways	2.4.2		To be provided for boilers that are more then 8 ft. from the top of the boiler to the boiler room floor.		
Drains	2.4.3		Requires at least one boiler room floor drain.		
Water (Cleaning)	2.4.4		Requires a water supply in the boiler room for flushing out the boiler, adding water to the boiler and cleaning the boiler room.		
Source Requirements	2.5		Installation requirements for feedwater, pumps, fuel and valves are section 1 code required. Additions to established codes are identified below.		
Fuel	2.5.2		Covered by the **Oregon Mechanical Specialty Code**, do not adopt		
Electrical	2.5.3		CSD-1 has limit of 12,500,000 BTU for manual remote shutdown switches, The NBIC doesn't address any type of a limit.		

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Ventilation & Combustible Air	2.5.4		Covered by the **Oregon Mechanical Specialty Code**, do not adopt		
Emergency Valves & Controls	2.5.6		Accessiblity of emergency shut off valves & controls.		
Discharge Requirements	2.6		Currently the Oregon Boiler Program dosen't address discharge requirements.		
Chimney or Stack	2.6.1		Covered by the **Oregon Mechanical Specialty Code**, do not adopt		
Ash Removal	2.6.2		New		
Drains	2.6.3		New		
Operating Systems	2.7		Steam supply and blowoff are addressed by the ASME Code of Construction. All other operating system requirements would be new.		
Breeching & Dampers	2.7.1		New		
Burners & Stokers	2.7.2		New		
Condensate and return	2.7.4		New		
Controls and Gages	2.8		Controls and Gage requirements are the same as Section I of the ASME code.		
Water	2.8.1		Although CSD-1 requires two low- water cut outs, there is a limit of 12,500,000 BTU. There is no limit on input in the NBIC Installation code.		
Pressure Relief Valves	2.9		The requirements for pressure relief valves are the same as Section I of the ASME code of construction.		
Testing and Acceptance	2.1o		Most of these requirements are followed by this jurisdiction, exception would be the Boiler Installation report.		

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Section 3 - Steam Heating Boilers, Hot-Water Heating Boilers, Hot Water Supply Boilers, and Potable Water Heaters					
Structural Steel	3.3.3		Requirements identical to Power Boilers		
Clearances	3.3.4		Identical to power boilers except boilers in battery may be a minimum 36" from each other.		
Exit	3.4.1		Same as power boilers		
Ladders and Runways	3.4.2		Same as power boilers		
Water	3.5.1		Provisions must be made to prevent boiler water from back feeding the service supply line.		
Fuel	3.5.2		Covered by the **Oregon Mechanical Specialty Code**, do not adopt		
Electrical	3.5.3		Same as power boilers		
Ventilation & Combustion Air	3.5.4		Covered by the **Oregon Mechanical Specialty Code**, do not adopt		
Lighting	3.5.5		Same as power boilers		
Emergency Valves and Controls	3.5.6		Same as power boilers		
Discharge Requirements			These requirements would be identical to power boilers, currently the boiler program doesn't have discharge requirements.		
Chimney or Stack	3.6.1		Covered by the **Oregon Mechanical Specialty Code**, do not adopt		
Oil Heaters	3.7.1		Same as Section IV, ASME code requirements.		

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Breeching & Dampers	3.7.2		Same as power boilers		
Burners and Stokers	3.7.3		Same as power boilers		
Feedwater, Makeup Water, and Water Supply	3.7.4		These requirements are the same as Section IV, ASME code of construction.		
Stop Valves	3.7.5		This would be in addition to code requirement for steam boilers. Code requires that stop valves be close to the boiler for HWH boilers but not steam boilers.		
Return Pipe Connections	3.7.6		Same as Section IV, ASME code of construction.		
Bottom Blowoff and Drain	3.7.7		Same as Section IV, ASME code of construction.		
Modular Steam Heating and Hot Water Heating Boilers	3.7.8		Added language to insure safety valve and drains (and blowdown for steam boilers) are installed on this type boiler.		
Thermal Expansion	3.7.9		Same as Section IV, ASME code of construction.		
Instruments, Fittings and Controls			Same as Section IV, ASME code of construction, except as noted.		
Steam Heating Boilers	3.8.1		Transparent material may be used for sight glass as long as it remains transparent and suitable for the intended pressure.		
Pressure-Relieving			Same as Section IV, ASME code of construction, except as noted.		
Safety Valve Requirements	3.9.1		3.9.1.5, discharge piping must be piped to a safe point of discharge.		

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Item # (chapter)	Section number	Submitted proposal #	Comment	Committee Action	Board Action
Safety Requirements	3.9.5		New, safety and safety relief valves for hot water tanks and heat exchangers.		
Section 4 - Pressure Vessels					
Scope	4.1		Installation requirements for pressure vessels, some of these would be in addition to Section VIII, ASME code of construction.		
Definitions	4.2		Pressure vessels are containers other then boilers or pipe used for he containment of pressure.		
Supports	4.3.1		*For supports,foundations and settings, must consider vibration,movement and loading.*		
Clearances	4.3.2		Must allow clearance for operation, maintenance and inspection.		
Piping	4.3.3		Must consider piping load and vibration on vessel.		
Level Indicating	4.4.1		Two level indicating devises for steam drums of unfired boilers.		
Pressure Relief Devices	4.5		Most of these requirements are found in Section VIII Div. I for pressure vessels. Some are additions and are noted below.		
Device Requirements	4.5.1		Pressure relief devise operation not to be hindered by vessel contents.		
Capacity	4.5.4		If a PV can be exposed to additional hazard, such as fire, then additional pressure relieving devises shall be installed.		
Installation and Discharge	4.5.6		Pressure relief devises shall be installed to allow for inspection, repair or replacement.		
Section 5 - Piping					
Scope	5.1		Requirements for piping installation.		
Additions to Existing Piping	5.2.1		Piping section is only for installation of pipe to existing system.		

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Proximity to Other	5.2.2		Must take into consideration location of other equipment and structure that may damage the pipe.		
Flanges & Other Non-Welded Joints	5.2.3		Layout of pipe must allow for maintenance and inspection of joints.		
Hangers and Supports	5.2.6		Support of piping shall consider loading including non piping attachments.		
Section 6 - Supplements					
Supplement 1- Yankee Dryers			This supplement is a guidline for the installation of Yankee Dryers.		
Supplement 2 Safety Valves			This supplement is a guidline for the installation of safety valves to protect vessels on the low pressure side of pressure reducing valves.		
Section7 - Policy for Metrication					
Section 8 - Preparation of Technical Inquiries					
Section 9 - Glossary of Terms					