

EXPLANATION:

The current definition of "power boiler" in NBIC Part 1 is confusing because the term is defined twice: once in a complete paragraph and once in a subparagraph. The first paragraph is actually a common definition used for "boiler".

The NBIC currently does not have a definition for the term "boiler". It should also be noted that the ASME does not currently define the term "boiler". Although most jurisdictions have their own definition of "boiler" in statute or regulation, it is felt that the NBIC needs to add a definition for completeness.

The intent of this proposal is to merge all elements of the current term "power boiler" into a single definition and to add a new definition for "boiler" for inclusion into Section 9 Glossary for all books of the NBIC.

Proposal

Existing Text	Proposed Text Changes
<p>2.2 DEFINITIONS</p> <p>A power boiler is a closed vessel in which water or other liquid is heated, steam or vapor generated, steam or vapor is superheated, or any combination thereof, under pressure for use external to itself, by the direct application of energy from the combustion of fuels or from electricity or solar energy. The term boiler includes fired units for vaporizing liquids other than water but does not include fired process heaters and systems. The term boiler also shall include the apparatus used to generate heat and all controls and safety devices associated with such apparatus or the closed vessel.</p> <p>a) Power Boiler — a boiler in which steam or other vapor is generated at a pressure in excess of 15 psig (100 kPa) for use external to itself.</p> <p>b) High-Temperature Water Boiler — a boiler in which water is heated and operates at a pressure in excess of 160 psig (1.1 MPa) and/or temperature in excess of 250°F (121°C).</p> <p>Repeated for clarity: A power boiler is a closed vessel in which water or other liquid is heated, steam or vapor generated, steam or vapor is superheated, or any combination thereof, under pressure for use external to itself, by the direct application of energy from the combustion of fuels or from electricity or solar energy. The term boiler includes fired units for vaporizing liquids other than water but does not include fired process heaters and systems. The term boiler also shall include the apparatus used to generate heat and all controls and safety devices associated with such apparatus or the closed vessel.</p>	<p><u>Power Boiler — a boiler in which steam or other vapor is generated at a pressure in excess of 15 psig (100 kPa) for use external to itself. The term power boiler includes fired units for vaporizing liquids other than water, but does not include fired process heaters and systems. (See also High-Temperature Water Boiler).</u></p> <p><u>High-Temperature Water Boiler — a power boiler in which water is heated and operates at a pressure in excess of 160 psig (1.1 MPa) and/or temperature in excess of 250°F (121°C).</u></p> <p><u>Boiler — A boiler is a closed vessel in which water or other liquid is heated, steam or vapor generated, steam or vapor is superheated, or any combination thereof, under pressure for use external to itself, by the direct application of energy from the combustion of fuels or from electricity or solar energy. The term boiler also shall include the apparatus used to generate heat and all controls and safety devices associated with such apparatus or the closed vessel.</u></p>