

HSB Global Standards

2015 Edition ASME Boiler & Pressure Vessel Code Synopsis Sample

Section I – Power Boilers and Reference Code Sections II, V & IX

Codes and Standards Group
July 2015

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HSB Global Standards
ASME Boiler and Pressure Vessel Code 2015
Edition Synopsis – Executive Summary

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2015 ASME Code Addenda Synopsis

The 2015 Edition of the ASME Boiler and Pressure Vessel Code was published on July 1, 2015, and includes revisions, additions and errata approved by the ASME B&PV Standards Committees in 2013 and 2014. The mandatory implementation date for the 2015 Edition is six months from the date of publication, or January 1, 2016. However Manufacturers may begin using the 2015 Edition beginning with the date of issuance.

There will be no addenda issued to this edition, and this edition will remain valid until publication of the 2017 edition in July of 2017. Changes that have taken place in the 2015 Edition are indicated by “(15)” in the margin adjacent to the affected paragraph/figure/table.

Code Case Supplements continue to be published four times per year and republished as a new Edition on a cycle concurrent with the rest of the Code.

Interpretations of the Code have historically been posted in January and July at <http://cstools.asme.org/interpretations>. However interpretations approved between January 1, 2013 and December 31, 2014 have been included with the publication of the applicable Section of the Code in the 2015 Edition as Volume 63. Following the 2015 Edition, interpretations will not be included in the edition; they will be issued in real time in ASME's Interpretation Database at: <http://go.asme.org/Interpretations>. This online Interpretation database also contains previously approved BPVC interpretations dating back to 1977.

Errata [publishing errors identified in the Code] are reviewed and approved by the Committee four times a year and posted on ASME's website. Information regarding “Special Notices” and “Errata” is published under the ASME Boiler and Pressure Vessel Code Resources Page at: <http://cstools.asme.org/BPVErrataAndSpecialNotice.cfm>.

ASME offers users the option to receive an e-mail notification when “Special Notices” or “Errata” are posted on their Web site. This will be especially useful now that annual Addenda are no longer published.

Nearly 1200 changes are itemized in this Synopsis. Many of these changes are the result of new technology and/or at the request of Certificate Holders like you.

This Synopsis was prepared by the HSB Global Standards (HSB GS) Codes & Standards staff to provide insight into the intent of these changes, and their potential impact on Code users. Each item that passed the ASME B&PV Standards Committee for the 2015 Edition was entered into the Synopsis database. The “Subject” and “Description” were created by HSB CT personnel involved with the cognizant Code Section Standards Committee, and each entry was checked against the published standard to verify that it made it into publication. This particular report contains a summary of changes for the three Divisions of Section VIII Pressure Vessel Code, as well as the three reference codes, Sections II (Materials), V (Nondestructive Examination) and IX (Welding, Brazing and Fusing Qualifications).

Commentary on revisions represents HSB Global Standard’s opinion of the changes, and is not intended to be an official interpretation of the ASME Code. Every effort was made to accurately describe the changes. However, we caution Code users to always refer to the actual Code rules that apply and to use this document as a supplementary tool to the Code. Please contact HSB GS Codes & Standards Group if further background information is desired on any of the revisions or Code Cases.

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Synopsis of the 2015 Edition of the ASME BPV Code - Section I Power Boilers

PG-9.3 and PFT-12.1.1	Revision	Revision to PG-9.3 - PG-9.3 currently states that the minimum thickness shall not less than Schedule 40 for copper or copper alloy pipe. Prior to the existence of the current code paragraph PG-28.3 and its predecessor, PFT-51, the maximum allowable working pressure of non-ferrous firetubes was given by Table PFT-12.2 that used to exist in Section I which listed tubes with thickness expressed in terms of gage ranging from 12 gage to 4 gage. While it is not clear how thickness in terms of schedule applies to tubes, it is quite clear that 12 gage represents a thickness less than schedule 40, which suggests that PG-9.3 was not intended to be applicable to firetubes. This revision made in paragraphs PG-9.3 and PFT-12.1.1 accompanied by an intent interpretation makes it clear that the minimum thickness requirement of PG-9.3 does not apply to firetubes.
PG-11	Revision	PG-11 - Review Standard Pressure Parts - A task group (with members from I, IV, VIII and XII) was formed by the BPV Executive Committee in November 2007 to review Standard Pressure Parts, and the literature that describes them. This action involves the complete rewrite of paragraph PG-11 dealing with prefabricated or preformed pressure parts. Examples of prefabricated or preformed pressure parts include common items such as flanges supplied to an ASME standard such as B16.5 or B16.47, or parts made to a manufacturer's standard or other product standard [e.g. MSS]. Aside from the restructuring of this paragraph, there have been significant clarifications made concerning the intent of certain requirements in PG-11. These clarifications in some cases may be viewed as new requirements. The title of the paragraph has changed from MISCELLANEOUS PRESSURE PARTS to PREFABRICATED OR PREFORMED PRESSURE PARTS FURNISHED WITHOUT A CERTIFICATION MARK.. PG-11.1 - Introductory paragraph and now eliminates the sentence "..... furnished by other than the shop of the Manufacturer responsible for the completed boiler". It also provides the rules if the nameplate used for the required marking interferes with further fabrication, installation, or service. PG-11.2 - Contains the rules for cast, forged, rolled or die formed nonstandard pressure parts that are supplied as material. Essentially unchanged from 2013 Edition. PG-11.3 - Contains the rules for cast, forged, rolled, or die formed standard pressure parts that comply with ASME product standard, either welded or non-welded. These requirements were originally located in paragraph PG-11.3.1. The second change is that this rewritten paragraph addresses both welded and non-welded standard pressure parts. Emphasis has been added to the paragraph concerning parts containing welds, and the fact that these parts must fully comply with all the applicable welding requirements of Section I. Additional clarifications are added concerning PWHT, volumetric examination, the design of the part and how the pressure-temperature rating is established. The Boiler Manufacturer is responsible to assure that all applicable Code requirements in these areas have been fulfilled, and he must collect and make documentation available to the Inspector with regard to the material used, the pressure-temperature rating of the part, and the basis for establishing the pressure-temperature rating. PG-11.4 - Contains the rules for cast, forged, rolled, or die formed standard pressure parts that comply with a standard other than an ASME product standard, either welded or non-welded. These requirements were originally located in paragraph PG-11.3.2. These are essentially parts made to a manufacturer's standard or some other product standard such as MSS, or could be parts that are fabricated by the Boiler Manufacturer to an internal standard. The Manufacturer has the same responsibilities as called out in PG-11.3, except that if he is unable to acquire documentation that establishes the pressure-temperature rating and the basis for establishing this rating for the part, then he must perform an analysis of the pressure part in accordance with the rules of Section I [see PG-16.1]. This analysis shall be included in the documentation and shall be made available for examination by the Inspector when requested. PG-11.5 - This is a new paragraph that provides rules for the situation when the Certificate Holder elects to subcontract the fabrication of parts made to a standard other than an ASME product standard to another company, who may or may not be a Certificate Holder. This paragraph requires the Certificate Holder's Quality Control System to provide controls over the subcontractor in terms of satisfying Code fabrication requirements. THIS IS A SIGNIFICANT REVISION AND SHOULD BE CAREFULLY REVIEWED BY BOILER MANUFACTURERS.
