HSB Global Standards

2015 Edition
ASME Boiler & Pressure Vessel Code
Synopsis Sample

Section VIII, Divisions 1, 2,3 – Pressure Vessels and Reference Code Sections II, V & IX

Codes and Standards Group
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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 Case.

Paragraph	Type	Subject - Description
U-2(b), U-2(e)	Revision	Inspector Review of Design Calculations - This revision concerns clarification of the Manufacturers and Authorized Inspector's responsibility as it relates to design calculations. With regard to the Manufacturer, emphasis has been added concerning the Manufacturer's responsibility for the preparation and accuracy of design calculations to show compliance with the rules of Section VIII, Division 1. These words reflect a similar requirement in Section I and PG 90.3. The current requirement in U-2(e) VIII-1 states: "The Inspector has the duty of verifying that the applicable calculations have been made and are on file at the Manufacturers plant at the time the Data Report is signed.". What was lacking in the statement was the meaning of the phrase "applicable calculations" in the context of the AI's responsibilities. The revisions to paragraph U-2(b) in U-2(e) focus attention on the Manufacturer's responsibility for producing calculations that comply with all applicable Code requirements, and that it is the AI's responsibility to verify that the Manufacturer has met this obligation. In paragraph U-2(e), the term "applicable design calculations" was defined as: "The term "applicable design calculations" means that all pressure retaining components covered by the Code stamping are supported by calculations and/or proof tests that comply with the requirements of this Division. The method of verifying that applicable design calculations have been made will vary with the individual Inspector and depend largely on the Manufacturer's procedures for producing the design calculations and any subsequent quality checks performed by the Manufacturer." This last statement recognizes that how an AI verifies that the applicable design calculations are on file for a given Manufacturer will depend to a large extent on how the Manufacturer produces their designs and how the Inspector monitors the Manufacturer's quality program relative to design calculations.

Subpart/Table: Part UG

Paragraph	Type	Subject - Description
Figure UG-118	Errata	Correction to Nameplate Figure - There was a publication error in Fig. UG-118 in the 2013 Edition. The acronym "MAEWP" should not have been listed within the General Note, and the phrase "maximum allowable external working pressure" was corrected to "maximum allowable working pressure (external)".
Figure UG-118	Revision	Revised Figure UG-118 - Nameplate Sample - This revision is a cleanup of Figure UG-118 which depicts the form of stamping on an ASME nameplate. The changes include: (1) The word "USER" has been added with an explanatory reference above the Certification Mark. (2) A reference to paragraphs UG-116(a)(1)(a) and (b) has been added directly beneath the U and UM Designators via Note (2). (3) A reference to the specific paragraphs UG-116(b)(1), (c), (e), (f), (h)(1)(a) has been added to the letters denoting the construction type (e.g. W, RT HT, etc) via Note (3).
Figure UG-30	Revision	Editorial Revision to Figure - In Figure UG-30 [Acceptable Methods of Attaching Stiffening Rings] , A reference to Notes (1) and (2) are provided for variable " S " in the upper left sketch.
Figure UG-34	Revision	Editorial Revision - A reference to Note (1) was added to Figure UG-34 Sketches (j) and (k), replacing the direct reference to Eq. (2) or (5) originally listed in brackets with the sketches.
Figure UG-36	Revision	Editorial Revision - The definitions for " r_L " , " r_s" and alpha are now listed in Notes (1) & (2) in Fig. UG-36.
Figure UG-37.1	Revision	Editorial Revisions; Notes (1) & (2) - The General Note addressing consideration of reinforcement material when the allowable stress of the nozzle divided by the allowable stresses the vessel is less than 1.0, has been moved to Note (1) at the bottom of Fig. UG-37.1, and the original Note (1) renumbered to (2).
Figure UG-84.1, Figure UG-84.1M	Revision	Editorial Revision - The minimum energy requirement, C_v, which is based on an average of three specimens, now uses Note (1) to describe this requirement in the Figures.