SECTION I

KEY CHANGES

- Section I, Parts Fabrication Certificate Program
- Addition of Part PFE Requirements for Feedwater Economizers
- Section I, Part PL Requirements for Locomotive Boilers
- Section I, Alternate Rules in Section I for the Design of Electric Immersion Heater Element Support Plates
- PWT-12, Construction of Box Headers and Waterlegs
- Preamble, Section I, Addition of Solar Heated Steam Generator
 - Added Part PFE on Requirements for Feedwater Economizers
 - Added Part PL on Requirements for Locomotive Boilers
 - Added a new paragraph PEB-8.3 allowing the use of Section VIII rules for the design of electric immersion heater element support plates (unstayed flat heads)

SECTION II

- Revised Appendix 5 in Section II, Part D. A number of testing requirements were added to Appendix 5 in Section II, Part D that are intended to apply to advanced alloys like the CSEF steels.
- Over 25 ferrous specifications were adopted or revised in Section II, Part A
- More than 10 nonferrous specifications were adopted or revised in Section II, Part B

SECTION III

- Definitions of Local Primary Membrane Stress Intensity and Local Thin Areas
- Incorporate Code Case N-755 into Section III
- 12-8, 12-372, 12-374, 12-375: Update Appendix W
- Section III updated Design by Analysis rules for reversing Dynamic Loads
- Stress Indices for Branch Connections for $r/R \le 0.5$

SECTION IV

KEY CHANGES

- Section IV; Parts Fabrication Certificate Program
- Section IV HG-401.1, Safety Valve Sizing
- Section IV Manufacturers with Multiple Locations
- Section IV HG-530 Marking of Boilers
- BPV IV Mandatory Appendix 2

SECTION V

- Section V: APR Technology.
- Section V: Adoption of New Article 18 on Guided Wave UT
- Section V: Mandatory Appendix to Article 4 for the Examination of HDPE
- 10-1576, 11-1196, 11-1197, 11-1198, 11-1199, 11-1975, 12-1986, 12-189, 12-1995, 12-1996, 12-1997, 12-1998, 12-1999, 12-2042, 13-1981, 13-904, 13-905, 13-906: 15 ASTM specifications related to nondestructive examination and referenced in Section V were adopted or revised.

SECTION VIII, DIVISION 1

KEY CHANGES

- Section VIII, Division 1; Incorporation of Code Case 2560
- Section VIII, Division 1; U-2(b) and U-2(e); Clarifying Inspector Responsibility for Review of Calculations

SECTION VIII, DIVISION 2

KEY CHANGES

- Section VIII, Division 2; Review Environmental Factor for Structural Stress Method in Division 2
- Section VIII, Division 2; Equations for Calculating Forming Strains in Table 6.1 and Code Case 2804

SECTION VIII, DIVISIONS 1 and 2

KEY CHANGES

- Section VIII, Division 1; Intent interpretation with revision to UCL-11; and revision to VIII-2; Part 3.3.6.2.
- Section VIII, Division 1 UHA-51/Div.2 3.11.4 revisions and interpretations
- Section VIII, Division 1; UG-40(e) and Section VIII, Division 2, 4.5.2
- Section VIII, Division 1; UW-3(a) and UW-11(a) and Section VIII, Division 2; Table 4.2.1 and Table 7.2
- Section VIII, Division 2; Paragraph 3.11.2.2(b) and Section VIII, Division 1; Paragraph UCS-66(f)

SECTION VIII, DIVISION 3

KEY CHANGES

- Section VIII, Division 3; Moving KD-240 Linear Elastic Analysis into a New Mandatory Appendix
- Section VIII, Division 3; Incorporation of final revisions to Code Case 2579, Incorporation to Sec VIII Division 3 (related to 10-811)
- Section VIII, Division 3; Revisions to KM-211.2 (a), (b), and (d) for the Manufacture of Large Vessels from Single Piece Forgings
- Section VIII, Division 3; Rupture Disk Devices

SECTION IX

KEY CHANGES

- SC IX; Friction Stir Welding Procedure Qualification
- SC IX; Part QF Electrofusing
- SC IX; New Nonmandatory Appendix on Qualification of Welders under ISO rules
- Section II, Part C, Adoption of AWS A5.16/A5.16M:2013 as SFA-5.16/SFA-5.16M *This is a revision to an existing specification*.
- Section II, Part C, Adoption of AWS A5.11/A5.11M:2010 as SFA-5.11/SFA-5.11M This is a revision to an existing specification.
- Section II, Part C, Adoption of AWS A5.34/A5.34M:2013 as SFA-5.34/SFA-5.34M *This is a revision to an existing specification.*
- Section II, Part C, Adoption of AWS A5.01/A5.01M:2013 as SFA-5.01/SFA-5.01M This is a revision to an existing specification.
- Section II, Part C, Adoption of AWS A5.1/A5.1M:2012 as SFA-5.1/SFA-5.1M *This is a revision to an existing specification.*
- Section II, Part C, Adoption of AWS A5.4/A5.4M:2012 as SFA-5.4/SFA-5.4M *This is a revision to an existing specification.*
- Section II, Part C, Adoption of AWS A5.9/A5.9M:2012 as SFA-5.9/SFA-5.9M *This is a revision to an existing specification.*
- Section II, Part C, Adoption of AWS A5.22/A5.22M:2012 as SFA-5.22/SFA-5.22M *This is a revision to an existing specification.*
- Section II, Part C, Adoption of AWS A5.5/A5.5M:2014 as SFA-5.5/SFA-5.5M *This is a revision to an existing specification.*

.....

SECTION X

KEY CHANGES

• BPVC Section X, Code Case 2820Composite Pressure Vessels for High Pressure Fluids

SECTION XI

KEY CHANGES

- Section XI Revision to Appendix D.
- Revision to Article A-3000 for K Calculation Methods for Surface and Subsurface Flaws.
- Acceptance of Through-Wall or Through-Weld Leakage in Class 1 Components.
- New Code Case to Replace N-629 and Revision to Appendix A, A-4200 for K_{Ia} Fracture Toughness Determination.

SECTION XII

- Revise Paragraphs in Part PR of Section XII
 - Revised Paragraphs in Part PR concerning requirements for pressure relief devices
 - Revised 1-1.4(a), revised 1-1.4(c)(3) and deleted 1-1.4(d)(11). Add a definition of "Material Test Report" to Mandatory Appendix III, III2. Also the definition for "Dynamic Load Condition" is revised in 1-1.4(c)(3).
- Section XII, Modal Appendix 1 Allowable Stress Criteria