

SECTION II
MATERIALS

2025

ASME Boiler and
Pressure Vessel Code
An International Code

Part B
Nonferrous Material
Specifications



Currently in preview, click buy full version

Markings such as “ASME,” “ASME Standard,” or any other marking including “ASME,” ASME logos, or the ASME Single Certification Mark shall not be used on any item that is not constructed in accordance with all of the applicable requirements of the Code or Standard. Use of the ASME Single Certification Mark requires formal ASME certification; if no certification program is available, such ASME markings may not be used. (For Certification and Accreditation Programs, see <https://www.asme.org/certification-accreditation>.)

Items produced by parties not formally possessing an ASME Certificate may not be described, either explicitly or implicitly, as ASME certified or approved in any code forms or other document.

AN INTERNATIONAL CODE

2025 ASME Boiler & Pressure Vessel Code

2025 Edition

July 1, 2025

II MATERIALS

Part B

Nonferrous Material Specifications

ASME Boiler and Pressure Vessel Committee
on Materials



The American Society of
Mechanical Engineers

Two Park Avenue • New York, NY • 10016 USA

Date of Issuance: July 1, 2025

This international code or standard was developed under procedures accredited as meeting the criteria for American National Standards and it is an American National Standard. The standards committee that approved the code or standard was balanced to ensure that individuals from competent and concerned interests had an opportunity to participate. The proposed code or standard was made available for public review and comment, which provided an opportunity for additional public input from industry, academia, regulatory agencies, and the public-at-large.

ASME does not “approve,” “certify,” “rate,” or “endorse” any item, construction, proprietary device, or activity. ASME does not take any position with respect to the validity of any patent rights asserted in connection with any items mentioned in this document, and does not undertake to insure anyone utilizing a standard against liability for infringement of any applicable letters patent, nor does ASME assume any such liability. Users of a code or standard are expressly advised that determination of the validity of any such patent rights, and the risk of infringement of such rights, is entirely their own responsibility.

Participation by federal agency representatives or persons affiliated with industry is not to be interpreted as government or industry endorsement of this code or standard.

ASME accepts responsibility for only those interpretations of this document issued in accordance with the established ASME procedures and policies, which precludes the issuance of interpretations by individuals.

The endnotes and preamble in this document (if any) are part of this American National Standard.



ASME Collective Membership Mark



ASME Single Certification Mark

The ASTM standards included in this ASME publication have been reproduced through a license agreement with ASTM International.

All rights reserved. “ASME” and the above ASME symbols are registered trademarks of The American Society of Mechanical Engineers. No part of this document may be copied, modified, distributed, published, displayed, or otherwise reproduced in any form or by any means, electronic, digital, or mechanical, now known or hereafter invented, without the express written permission of ASME. No works derived from this document or any content therein may be created without the express written permission of ASME. Using this document or any content therein to train, create, or improve any artificial intelligence and/or machine learning platform, system, application, model, or algorithm is strictly prohibited.

Library of Congress Catalog Card Number: 56-3934

Adopted by the Council of The American Society of Mechanical Engineers, 1914; latest edition 2025.

The American Society of Mechanical Engineers
Two Park Avenue, New York, NY 10016-5990

Copyright © 2025 by
THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS
All rights reserved
Printed in U.S.A.

SB-168	Specification For Nickel-Chromium-Aluminum Alloys (UNS N06699), Nickel-Chromium-Iron Alloys (UNS N06600, N06601, N06603, N06690, N06693, N06025, N06045, and N06696), Nickel-Chromium-Cobalt-Molybdenum Alloy (UNS N06617), Nickel-Iron-Chromium-Tungsten Alloy (UNS N06674), and Nickel-Chromium-Molybdenum-Copper Alloy (UNS N06235) Plate, Sheet, and Strip	233
SB-169/SB-169M	Specification for Aluminum Bronze Sheet, Strip, and Rolled Bar	247
SB-171/SB-171M	Specification for Copper-Alloy Plate and Sheet for Pressure Vessels, Condensers, and Heat Exchangers	253
SB-187/SB-187M	Specification for Copper, Bus Bar, Rod, and Shapes and General Purpose Rod, Bar, and Shapes	261
SB-209/SB-209M	Specification for Aluminum and Aluminum-Alloy Sheet and Plate	271
SB-210	Specification for Aluminum and Aluminum-Alloy Drawn Seamless Tubes	315
SB-211/SB-211M	Specification for Aluminum and Aluminum-Alloy Rolled or Cold-Finished Bar, Rod, and Wire	327
SB-221	Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes	341
SB-221M	Specification for Aluminum and Aluminum-Alloy Extruded Bar, Rods, Wire, Profiles, and Tubes (Metric)	359
SB-234	Specification for Aluminum and Aluminum-Alloy Drawn Seamless Tubes for Condensers and Heat Exchangers	379
SB-241/SB-241M	Specification for Aluminum and Aluminum-Alloy Seamless Pipe and Seamless Extruded Tube	387
SB-247	Specification for Aluminum and Aluminum-Alloy Die Forgings, Hand Forgings, and Rolled Ring Forgings	409
SB-248	Specification for General Requirements for Wrought Copper and Copper-Alloy Plate, Sheet, Strip, and Rolled Bar	427
SB-249/SB-249M	Specification for General Requirements for Wrought Copper and Copper-Alloy Rod, Bar, Shapes, and Forgings	441
SB-251/SB-251M	Specification for General Requirements for Wrought Seamless Copper and Copper-Alloy Tube	455
SB-265	Specification for Titanium and Titanium Alloy Strip, Sheet, and Plate	465
SB-271/SB-271M	Specification for Copper Base Alloy Centrifugal Castings	479
SB-283/SB-283M	Specification for Copper and Copper-Alloy Die Forgings (Hot-Pressed)	487
SB-308/SB-308M	Specification for Aluminum-Alloy 6061-T6 Standard Structural Profiles	505
SB-315	Specification for Seamless Copper Alloy Pipe and Tube	511
SB-333	Specification for Nickel-Molybdenum Alloy Plate, Sheet, and Strip	523
SB-335	Specification for Nickel-Molybdenum Alloy Rod	527
SB-338	Specification for Seamless and Welded Titanium and Titanium Alloy Tubes for Condensers and Heat Exchangers	533
SB-348/SB-348M	Specification for Titanium and Titanium Alloy Bars and Billets	543
SB-359/SB-359M	Specification for Copper and Copper-Alloy Seamless Condenser and Heat Exchanger Tubes with Integral Fins	553
SB-363	Specification for Seamless and Welded Unalloyed Titanium and Titanium Alloy Welding Fittings	565
SB-366/SB-366M	Specification for Factory-Made Wrought Nickel and Nickel Alloy Fittings	571
SB-367	Specification for Titanium and Titanium Alloy Castings	581
SB-369	Specification for Copper-Nickel Alloy Castings	589
SB-381	Specification for Titanium and Titanium Alloy Forgings	595
SB-395/SB-395M	Specification for U-Bend Seamless Copper and Copper Alloy Heat Exchanger and Condenser Tubes	605
SB-417	Specification for Nickel-Iron-Chromium Alloy Seamless Pipe and Tube	619
SB-408	Specification for Nickel-Iron-Chromium Alloy Rod and Bar	625
SB-409	Specification for Nickel-Iron-Chromium Alloy Plate, Sheet, and Strip	631
SB-423	Specification for Nickel-Iron-Chromium-Molybdenum-Copper Alloy (UNS N08825 and N08221) Seamless Pipe and Tube	637

SB-424	Specification for Ni-Fe-Cr-Mo-Cu Alloy (UNS N08825, UNS N08221, and UNS N06845) Plate, Sheet, and Strip	643
SB-425	Specification for Ni-Fe-Cr-Mo-Cu Alloy (UNS N08825 and UNS N08221) Rod and Bar	649
SB-434	Specification for Nickel-Molybdenum-Chromium-Iron Alloys (UNS N10003, UNS N10242) Plate, Sheet, and Strip	657
SB-435	Specification for UNS N06002, UNS N06230, UNS N12160, and UNS R30556 Plate, Sheet, and Strip	661
SB-443	Specification for Nickel-Chromium-Molybdenum-Columbium Alloy (UNS N06625) and Nickel-Chromium-Molybdenum-Silicon Alloy (UNS N06219) Plate, Sheet, and Strip	665
SB-444	Specification for Nickel-Chromium-Molybdenum-Columbium Alloys (UNS N06625 and UNS N06852) and Nickel-Chromium-Molybdenum-Silicon Alloy (UNS N06219) Pipe and Tube	677
SB-446	Specification for Nickel-Chromium-Molybdenum-Columbium Alloy (UNS N06625), Nickel-Chromium-Molybdenum-Silicon Alloy (UNS N06219), and Nickel-Chromium-Molybdenum-Tungsten Alloy (UNS N06650) Rod and Bar	681
SB-462	Specification for Forged or Rolled Nickel Alloy Pipe Flanges, Forged Fittings, and Valves and Parts for Corrosive High-Temperature Service	687
SB-463	Specification for UNS N08020 Alloy Plate, Sheet, and Strip	693
SB-464	Specification for Welded UNS N08020, N08024, and N08026 Alloy Pipe ..	697
SB-466/SB-466M	Specification for Seamless Copper-Nickel Pipe and Tube	701
SB-467	Specification for Welded Copper-Nickel	709
SB-468	Specification for Welded UNS N08020, N08024, and N08026 Alloy Tubes ..	719
SB-473	Specification for UNS N08020, UNS N08024, and UNS N08026 Nickel Alloy Bar and Wire	723
SB-493/SB-493M	Specification for Zirconium and Zirconium Alloy Forgings	733
SA-494/SA-494M	Specification for Castings, Nickel and Nickel Alloy	737
SB-505/SB-505M	Specification for Copper Alloy Continuous Castings	745
SB-511	Specification for Nickel-Iron-Chromium-Silicon Alloy Bars and Shapes	757
SB-514	Specification for Welded Nickel-Iron-Chromium Alloy Pipe	767
SB-515	Specification for Welded UNS N08120, UNS N08800, UNS N08810, and UNS N08811 Alloy Tubes	771
SB-516	Specification for Welded Nickel-Chromium-Aluminum Alloy (UNS N06699) and Nickel-Chromium-Iron Alloy (UNS N06600, UNS N06601, UNS N06603, UNS N06025, UNS N06045, UNS N06690, AND UNS N06693) Tubes	775
SB-517	Specification for Welded Nickel-Chromium-Iron Alloy (UNS N06600, UNS N06603, UNS N06025, and UNS N06045) Pipe	779
SB-523/SB-523M	Specification for Seamless and Welded Zirconium and Zirconium Alloy Tubes	783
SB-535	Specification for Nickel-Iron-Chromium-Silicon Alloys (UNS N08330 and N08332) Seamless Pipe and Tube	789
SB-536	Specification for Nickel-Iron-Chromium-Silicon Alloys (UNS N08330 and N08332) Plate, Sheet, and Strip	793
SB-543/SB-543M	Specification for Welded Copper and Copper-Alloy Heat Exchanger Tube ..	805
SB-543	Test Method for Ultrasonic Inspection of Aluminum-Alloy Plate for Pressure Vessels	819
SB-549/SB-550M	Specification for Zirconium and Zirconium Alloy Bar and Wire	825
SB-551/SB-551M	Specification for Zirconium and Zirconium Alloy Strip, Sheet, and Plate ...	831
SB-552	Specification for Nickel Alloy Forgings	843
SB-572	Specification for UNS N06002, UNS N06230, UNS N12160, and UNS R30556 Rod	855
SB-573	Specification for Nickel-Molybdenum-Chromium-Iron Alloys (UNS N10003, N10242) Rod	861

SB-574	Specification for Low-Carbon Nickel-Chromium-Molybdenum, Low-Carbon Nickel-Molybdenum-Chromium, Low-Carbon Nickel-Molybdenum-Chromium-Tantalum, Low-Carbon Nickel-Chromium-Molybdenum-Copper, and Low-Carbon Nickel-Chromium-Molybdenum-Tungsten Alloy Rod	865
SB-575	Specification for Low-Carbon Nickel-Chromium-Molybdenum, Low-Carbon Nickel-Chromium-Molybdenum-Copper, Low-Carbon Nickel-Chromium-Molybdenum-Tantalum, Low-Carbon Nickel-Chromium-Molybdenum-Tungsten, and Low-Carbon Nickel-Molybdenum-Chromium Alloy Plate, Sheet, and Strip	871
SB-581	Specification for Nickel-Chromium-Iron-Molybdenum-Copper Alloy Rod ..	877
SB-582	Specification for Nickel-Chromium-Iron-Molybdenum-Copper Alloy Plate, Sheet, and Strip	883
SB-584	Specification for Copper Alloy Sand Castings for General Applications ..	887
SB-599	Specification for Nickel-Iron-Chromium-Molybdenum-Columbium Stabilized Alloy (UNS N08700) Plate, Sheet, and Strip	897
SB-619/SB-619M	Specification for Welded Nickel and Nickel-Cobalt Alloy Pipe	911
SB-620	Specification for Nickel-Iron-Chromium-Molybdenum Alloy (UNS N08320) Plate, Sheet, and Strip	919
SB-621	Specification for Nickel-Iron-Chromium-Molybdenum Alloy (UNS N08320) Rod	923
SB-622	Specification for Seamless Nickel and Nickel-Cobalt Alloy Pipe and Tube ..	927
SB-625	Specification for UNS N08925, UNS N08031, UNS N08034, UNS N08932, UNS N08926, UNS N08354, UNS N08830, and UNS R20033 Plate, Sheet, and Strip	935
SB-626	Specification for Welded Nickel and Nickel-Cobalt Alloy Tube	941
SB-637	Specification for Precipitation-Hardening and Cold Worked Nickel Alloy Bars, Forgings, and Forging Stock for Moderate or High-Temperature Service	947
SB-649	Specification for Ni-Fe-Cr-Mo-Cu N Low-Carbon Alloys (UNS N08925, UNS N08031, UNS N08034, UNS N08354, and UNS N08926), and Cr-Ni-Fe-N Low-Carbon Alloy (UNS R20033) Bar and Wire, and Ni-Cr-Fe-Mo-N Alloy (UNS N08936) Wire	955
SB-653/SB-653M	Specification for Seamless and Welded Zirconium and Zirconium Alloy Welding Fittings	965
SB-658/SB-658M	Specification for Seamless and Welded Zirconium and Zirconium Alloy Pipe	969
SB-666/SB-666M	Practice for Identification Marking of Aluminum and Magnesium Products	975
SB-668	Specification for UNS N08028 Seamless Tubes	983
SB-672	Specification for Nickel-Iron-Chromium-Molybdenum-Columbium Stabilized Alloy (UNS N08700) Bar and Wire	987
SB-673	Specification for UNS N08925, UNS N08354, and UNS N08926 Welded Pipe	995
SB-674	Specification for UNS N08925, UNS N08354, and UNS N08926 Welded Tube	999
SB-675	Specification for UNS N08367 Welded Pipe	1003
SB-676	Standard Specification for UNS N08367 Welded Tube	1007
SB-677	Specification for Nickel-Iron-Chromium-Molybdenum and Iron-Nickel-Chromium-Molybdenum-Copper Seamless Pipe and Tube	1011
SB-688	Specification for Chromium-Nickel-Molybdenum-Iron (UNS N08366 and UNS N08367) Plate, Sheet, and Strip	1015
SB-690	Specification for Iron-Nickel-Chromium-Molybdenum Alloys (UNS N08366 and UNS N08367) Seamless Pipe and Tube	1025
SB-691	Specification for Iron-Nickel-Chromium-Molybdenum Alloys (UNS N08366 and UNS N08367) Rod, Bar, and Wire	1033
SB-704	Specification for Welded UNS N06625, UNS N06219, and UNS N08825 Alloy Tubes	1041
SB-705	Specification for Nickel-Alloy (UNS N06625, N06219 and N08825) Welded Pipe	1045
SB-706	Specification for Seamless Copper Alloy (UNS NO. C69100) Pipe and Tube	1049

SB-709	Specification for Iron-Nickel-Chromium-Molybdenum Alloy (UNS N08028) Plate, Sheet, and Strip	1057
SB-710	Specification for Nickel-Iron-Chromium-Silicon Alloy Welded Pipe	1063
SB-729	Specification for Seamless Nickel-Iron-Chromium-Molybdenum-Copper Nickel Alloy Pipe and Tube	1067
SB-751	Specification for General Requirements for Nickel and Nickel-Alloy Welded Tube	1071
SB-752/SB-752M	Specification for Castings, Zirconium-Base, Corrosion Resistant, for General Application	1071
SB-775	Specification for General Requirements for Nickel and Nickel-Alloy Welded Pipe	1083
SB-804	Specification for UNS N08367 and UNS N08926 Welded Pipe	1091
SB-815	Specification for Cobalt-Chromium-Nickel-Molybdenum-Tungsten Alloy (UNS R31233) Rod	1099
SB-818	Specification for Cobalt-Chromium-Nickel-Molybdenum-Tungsten Alloy (UNS R31233) Plate, Sheet, and Strip	1103
SB-824	Specification for General Requirements for Copper Alloy Castings	1107
SB-829	Specification for General Requirements for Nickel and Nickel Alloys Seamless Pipe and Tube	1115
SB-834	Specification for Pressure Consolidated Powder Metal, Iron-Nickel-Chromium-Molybdenum (UNS N08367), Nickel-Chromium-Molybdenum-Columbium (Nb) (UNS N06625), Nickel-Chromium-Iron Alloys (UNS N06600 and N06690), and Nickel-Chromium-Iron-Columbium-Molybdenum (UNS N07718) Alloy Pipe, Flanges, Fittings, Valves, and Parts	1123
SB-861	Specification for Titanium and Titanium Alloy Seamless Pipe	1129
SB-862	Specification for Titanium and Titanium Alloy Welded Pipe	1139
SB-906	Specification for General Requirements for Flat-Rolled Nickel and Nickel Alloys Plate, Sheet, and Strip	1151
SB-928/SB-928M	Specification for High Magnesium Aluminum-Alloy Sheet and Plate for Marine Service and Similar Environments	1169
SB-956	Specification for Welded Copper and Copper-Alloy Condenser and Heat Exchanger Tubes with Integral Fins	1183
SF-467	Specification for Nonferrous Nuts for General Use	1195
SF-467M	Specification for Nonferrous Nuts for General Use [Metric]	1205
SF-468	Specification for Nonferrous Bolts, Hex Cap Screws, Socket Head Cap Screws, and Studs for General Use	1215
SF-468M	Specification for Nonferrous Bolts, Hex Cap Screws, and Studs for General Use [Metric]	1231
SB/EN 1706	Aluminum and Aluminum Alloys — Castings — Chemical Composition and Mechanical Properties	1243
Mandatory Appendix I	Standard Units for Use in Equations	1245
Mandatory Appendix II	ASME Material Specifications	1246
II-100	General	1246
II-200	Source Standards	1246
II-300	Permissibility of Superseded Editions for ASME Construction	1246
II-400	Structure of ASME Material Specifications	1246
Mandatory Appendix III	Guidelines on Multiple Marking of Materials	1255
III-100	Background	1255
III-200	Guidelines	1255
Mandatory Appendix IV	Guidelines on the Approval of New Materials Under the ASME Boiler and Pressure Vessel Code	1257
IV-100	Code Policy	1257
IV-200	Application	1257
IV-300	Chemical Composition	1259

IV-400	Metallurgical Structure and Heat Treatment	1259
IV-500	Mechanical Properties	1259
IV-600	Definitions for Data Collection Purposes	1259
IV-700	Required Sampling	1260
IV-800	Time-Independent Properties	1260
IV-900	Time-Dependent Properties	1260
IV-1000	Low-Temperature Properties	1262
IV-1100	Toughness Data	1262
IV-1200	Stress-Strain Curves	1262
IV-1300	Fatigue Data	1263
IV-1400	Physical Properties	1263
IV-1500	Data Requirements for Welds, Weldments, and Weldability	1263
IV-1600	Long-Term Properties Stability	1265
IV-1700	Requests for Additional Data	1265
IV-1800	New Materials Checklist	1265
IV-1900	Requirements for Recognized National or International Specifications ..	1266
IV-2000	Publication of Recognized National or International Specification	1266
IV-2100	CEN Specifications	1266
Nonmandatory Appendix A	Sources of Standards	1267

FIGURES

II-400-1	Illustrative Table of ASME Material Specifications (for II-400 Explanation Purposes Only)	1254
----------	-------------------------------------------------------------------------------------------------	------

TABLES

I-1	Standard Units for Use in Equations	1245
II-200-1	Nonferrous Material Specifications Acceptable for BPPC Construction (Including Acceptable ASTM Editions)	1248
II-200-2	Nonferrous Material Specifications Acceptable for PVC Construction	1254
IV-100-1	Hot Isostatically Pressed Component Requirements for Austenitic Stainless Steels, Austenitic-Ferritic (Duplex) Stainless Steels, Martensitic Stainless Steels, Ferritic Steels, and Nickel Alloys	1258
IV-800-1	ASTM Test Methods and Units for Reporting	1261
IV-1500-1	Example of a Comparison of Allowable Stresses of Base Metals With Compositions Similar to Those of Selected Welding Consumables and the Proposed New Base Metal	1264

LIST OF SECTIONS

(25)

SECTIONS

- I Rules for Construction of Power Boilers

- II Materials
 - Part A — Ferrous Material Specifications
 - Part B — Nonferrous Material Specifications
 - Part C — Specifications for Welding Rods, Electrodes, and Filler Metals
 - Part D — Properties (Customary)
 - Part D — Properties (Metric)

- III Rules for Construction of Nuclear Facility Components
 - Subsection NCA — General Requirements for Division 1 and Division 2
 - Appendices
 - Division 1
 - Subsection NB — Class 1 Components
 - Subsection NCD — Class 2 and Class 3 Components
 - Subsection NE — Class MC Components
 - Subsection NF — Supports
 - Subsection NG — Core Support Structures
 - Division 2 — Code for Concrete Containments
 - Division 3 — Containment Systems for Transportation and Storage of Spent Nuclear Fuel and High-Level Radioactive Material
 - Division 4 — Fusion Energy Devices
 - Division 5 — High Temperature Reactors

- IV Rules for Construction of Heating Boilers

- V Nondestructive Examination

- VI Recommended Rules for the Care and Operation of Heating Boilers

- VII Recommended Guidelines for the Care of Power Boilers

- VIII Rules for Construction of Pressure Vessels
 - Division 1
 - Division 2 — Alternative Rules
 - Division 3 — Alternative Rules for Construction of High Pressure Vessels

- IX Welding, Brazing, and Fusing Qualifications

- X Fiber-Reinforced Plastic Pressure Vessels

- XI Rules for Inservice Inspection of Nuclear Reactor Facility Components
 - Division 1 — Rules for Inservice Inspection of Nuclear Power Plant Components
 - Division 2 — Requirements for Reliability and Integrity Management (RIM) Programs for Nuclear Reactor Facilities

- XII Rules for Construction and Continued Service of Transport Tanks

- XIII Rules for Overpressure Protection

FOREWORD^{*}

In 1911, The American Society of Mechanical Engineers established the Boiler and Pressure Vessel Committee to formulate standard rules for the construction of steam boilers and other pressure vessels. In 2009, the Boiler and Pressure Vessel Committee was superseded by the following committees:

- (a) Committee on Power Boilers (I)
- (b) Committee on Materials (II)
- (c) Committee on Construction of Nuclear Facility Components (III)
- (d) Committee on Heating Boilers (IV)
- (e) Committee on Nondestructive Examination (V)
- (f) Committee on Pressure Vessels (VIII)
- (g) Committee on Welding, Brazing, and Fusing (IX)
- (h) Committee on Fiber-Reinforced Plastic Pressure Vessels (X)
- (i) Committee on Nuclear Inservice Inspection (XI)
- (j) Committee on Transport Tanks (XII)
- (k) Committee on Overpressure Protection (XIII)
- (l) Technical Oversight Management Committee (TOMC)

Where reference is made to “the Committee” in this Foreword, each of these committees is included individually and collectively.

The Committee’s function is to establish rules of safety relating to pressure integrity. The rules govern the construction^{**} of boilers, pressure vessels, transport tanks, and nuclear components, and the inservice inspection of nuclear components and transport tanks. For nuclear items other than pressure-retaining components, the Committee also establishes rules of safety related to structural integrity. The Committee also interprets these rules when questions arise regarding their intent. The technical consistency of the Sections of the Code and coordination of standards development activities of the Committees is supported and guided by the Technical Oversight Management Committee. The Code does not address other safety issues relating to the construction of boilers, pressure vessels, transport tanks, or nuclear components, or the inservice inspection of nuclear components or transport tanks. Users of the Code should refer to the pertinent codes, standards, laws, regulations, or other relevant documents for safety issues other than those relating to pressure integrity and, for nuclear items other than pressure-retaining components, structural integrity. Except for Sections XI and XII, and with a few other exceptions, the rules do not, of practical necessity, reflect the likelihood and consequences of deterioration in service related to specific service fluids or external operating environments. In formulating the rules, the Committee considers the needs of users, manufacturers, and inspectors of components addressed by the Code. The objective of the rules is to afford reasonably certain protection of life and property, and to provide a margin for deterioration in service to give a reasonably long, safe period of usefulness. Advancements in design and materials and evidence of experience have been recognized.

The Code contains mandatory requirements, specific prohibitions, and nonmandatory guidance for construction activities and inservice inspection and testing activities. The Code does not address all aspects of these activities and those aspects that are not specifically addressed should not be considered prohibited. The Code is not a handbook and cannot replace education, experience, and the use of engineering judgment. The phrase *engineering judgment* refers to technical judgments made by knowledgeable engineers experienced in the application of the Code. Engineering judgments must be consistent with Code philosophy, and such judgments must never be used to overrule mandatory requirements or specific prohibitions of the Code.

The Committee recognizes that tools and techniques used for design and analysis change as technology progresses and expects engineers to use good judgment in the application of these tools. The designer is responsible for complying with Code rules and demonstrating compliance with Code equations when such equations are mandatory. The Code

^{*} The information contained in this Foreword is not part of this American National Standard (ANS) and has not been processed in accordance with ANSI’s requirements for an ANS. Therefore, this Foreword may contain material that has not been subjected to public review or a consensus process. In addition, it does not contain requirements necessary for conformance to the Code.

^{**} *Construction*, as used in this Foreword, is an all-inclusive term comprising materials, design, fabrication, examination, inspection, testing, certification, and overpressure protection.

neither requires nor prohibits the use of computers for the design or analysis of components constructed to the requirements of the Code. However, designers and engineers using computer programs for design or analysis are cautioned that they are responsible for all technical assumptions inherent in the programs they use and the application of these programs to their design.

The rules established by the Committee are not to be interpreted as approving, recommending, or endorsing any proprietary or specific design, or as limiting in any way the manufacturer's freedom to choose any method of design or any form of construction that conforms to the Code rules.

The Committee meets regularly to consider revisions of the rules, new rules as dictated by technological development, Code cases, and requests for interpretations. Only the Committee has the authority to provide official interpretations of the Code. Requests for revisions, new rules, Code cases, or interpretations shall be addressed to the staff secretary in writing and shall give full particulars in order to receive consideration and action (see the Correspondence With the Committee page). Proposed revisions to the Code resulting from inquiries will be presented to the Committee for appropriate action. The action of the Committee becomes effective only after confirmation by ballot of the Committee and approval by ASME. Proposed revisions to the Code approved by the Committee are submitted to the American National Standards Institute (ANSI) and published at <http://go.asme.org/BPVCPublicReview> to invite comments from all interested persons. After public review and final approval by ASME, revisions are published at regular intervals in Editions of the Code.

The Committee does not rule on whether a component shall or shall not be constructed to the provisions of the Code. The scope of each Section has been established to identify the components and parameters considered by the Committee in formulating the Code rules.

Questions or issues regarding compliance of a specific component with the Code rules are to be directed to the ASME Certificate Holder (Manufacturer). Inquiries concerning the interpretation of the Code are to be directed to the Committee. ASME is to be notified should questions arise concerning improper use of the ASME Single Certification Mark.

When required by context in the Code, the singular shall be interpreted as the plural, and vice versa.

The words "shall," "should," and "may" are used in the Code as follows:

- *Shall* is used to denote a requirement.
- *Should* is used to denote a recommendation.
- *May* is used to denote permission, neither a requirement nor a recommendation.

STATEMENT OF POLICY ON THE USE OF THE ASME SINGLE CERTIFICATION MARK AND CODE AUTHORIZATION IN ADVERTISING

ASME has established procedures to authorize qualified organizations to perform various activities in accordance with the requirements of the ASME Boiler and Pressure Vessel Code. It is the aim of the Society to provide recognition of organizations so authorized. An organization holding authorization to perform various activities in accordance with the requirements of the Code may state this capability in its advertising literature.

Organizations that are authorized to use the ASME Single Certification Mark for marking items or constructions that have been constructed and inspected in compliance with the ASME Boiler and Pressure Vessel Code are issued Certificates of Authorization. It is the aim of the Society to maintain the standing of the ASME Single Certification Mark for the benefit of the users, the enforcement jurisdictions, and the holders of the ASME Single Certification Mark who comply with all requirements.

Based on these objectives, the following policy has been established on the usage in advertising of facsimiles of the ASME Single Certification Mark, Certificates of Authorization, and reference to Code construction. The American Society of Mechanical Engineers does not “approve,” “certify,” “rate,” or “endorse” any item, construction, or activity and there shall be no statements or implications that might so indicate. An organization holding the ASME Single Certification Mark and/or a Certificate of Authorization may state in advertising literature that items, constructions, or activities “are built (produced or performed) or activities conducted in accordance with the requirements of the ASME Boiler and Pressure Vessel Code,” or “meet the requirements of the ASME Boiler and Pressure Vessel Code.” An ASME corporate logo shall not be used by any organization other than ASME.

The ASME Single Certification Mark shall be used only for stamping and nameplates as specifically provided in the Code. However, facsimiles may be used for the purpose of fostering the use of such construction. Such usage may be by an association or a society, or by a holder of the ASME Single Certification Mark who may also use the facsimile in advertising to show that clearly specified items will carry the ASME Single Certification Mark.

STATEMENT OF POLICY ON THE USE OF ASME MARKING TO IDENTIFY MANUFACTURED ITEMS

The ASME Boiler and Pressure Vessel Code provides rules for the construction of boilers, pressure vessels, and nuclear components. This includes requirements for materials, design, fabrication, examination, inspection, and stamping. Items constructed in accordance with all of the applicable rules of the Code are identified with the ASME Single Certification Mark described in the governing Section of the Code.

Markings such as “ASME,” “ASME Standard,” or any other marking including “ASME” or the ASME Single Certification Mark shall not be used on any item that is not constructed in accordance with all of the applicable requirements of the Code.

Items shall not be described on ASME Data Report Forms nor on similar forms referring to ASME that tend to imply that all Code requirements have been met when, in fact, they have not been. Data Report Forms covering items not fully complying with ASME requirements should not refer to ASME or they should clearly identify all exceptions to the ASME requirements.

PERSONNEL

ASME Boiler and Pressure Vessel Standards Committees, Subgroups, and Working Groups

January 1, 2025

TECHNICAL OVERSIGHT MANAGEMENT COMMITTEE (TOMC)

R. E. McLaughlin, <i>Chair</i>	M. D. Rana
N. A. Finney, <i>Vice Chair</i>	S. C. Roberts
S. J. Rossi, <i>Staff Secretary</i>	F. J. Schaaf, Jr.
R. W. Barnes	G. Scribner
T. L. Bedeaux	W. J. Sperko
C. T. Brown	D. Srnic
R. P. Deubler	R. W. Swayne
G. W. Galanes	J. Vattappilly
J. A. Hall	M. Wadkinson
T. E. Hansen	D. W. Lamond, <i>Ex-Officio Member</i>
G. W. Hembree	B. K. Nutter, <i>Ex-Officio Member</i>
R. B. Keating	E. M. Ortman, <i>Ex-Officio Member</i>
B. Linnemann	M. J. Pischke, <i>Ex-Officio Member</i>
W. M. Lundy	J. F. Henry, <i>Honorary Member</i>
D. I. Morris	

Task Group on Remote Inspection and Examination (SI-TOMC)

S. C. Roberts, <i>Chair</i>	C. Stevens
M. Frediani, <i>Staff Secretary</i>	M. Tannenbaum
P. J. Coco	J. Cameron, <i>Alternate</i>
N. A. Finney	A. Byk, <i>Contributing Member</i>
S. A. Marks	S. J. Rossi, <i>Contributing Member</i>
R. Rockwood	C. A. Sanna, <i>Contributing Member</i>

Special Working Group on High Temperature Technology (TOMC)

D. Dewees, <i>Chair</i>	B. F. Hantz
F. W. Brust	R. I. Jetter
T. D. Burchell	P. Smith
P. R. Donavin	

Subgroup on Research and Development (TOMC)

S. C. Roberts, <i>Chair</i>	R. B. Keating
S. J. Rossi, <i>Staff Secretary</i>	R. E. McLaughlin
R. W. Barnes	E. M. Ortman
N. A. Finney	D. Andrei, <i>Contributing Member</i>
G. W. Galanes	

Honors and Awards Committee (TOMC)

E. M. Ortman,	B. K. Nutter
G. W. Galanes	R. E. McLaughlin
D. W. Lamond	

Subgroup on Strategic Initiatives (TOMC)

N. A. Finney, <i>Chair</i>	R. B. Keating
S. J. Rossi, <i>Staff Secretary</i>	R. E. McLaughlin
R. W. Barnes	E. M. Ortman
G. W. Galanes	S. C. Roberts
G. W. Hembree	M. Wadkinson

ADMINISTRATIVE COMMITTEE

R. E. McLaughlin, <i>Chair</i>	B. K. Nutter
N. A. Finney, <i>Vice Chair</i>	E. M. Ortman
S. J. Rossi, <i>Staff Secretary</i>	M. J. Pischke
G. W. Galanes	M. D. Rana
R. B. Keating	S. C. Roberts
D. W. Lamond	R. R. Stevenson
B. Linnemann	M. Wadkinson

Task Group on Field Sites (TOMC)

R. V. Wielgoszinski, <i>Chair</i>	J. Hoskinson
M. Vazquez, <i>Staff Secretary</i>	D. T. Peters
P. Becker	G. Scribner
T. Bedeaux	

MARINE CONFERENCE GROUP

J. Oh, <i>Staff Secretary</i>	H. N. Patel
J. G. Hungerbuhler, Jr.	N. Prokopuk
G. Nair	J. D. Reynolds

CONFERENCE COMMITTEE

R. D. Troutt — Texas, *Chair*
 J. T. Amato — Ohio, *Secretary*
 M. O. Amuzie — New Jersey
 R. Becker — Colorado
 H. Berny — Minnesota
 T. D. Boggs — Missouri
 R. A. Boillard — Indiana
 D. P. Brockerville —
 Newfoundland and Labrador,
 Canada
 R. J. Bunte — Iowa
 A. Buquis — Arizona
 J. H. Burpee — Maine
 M. Carlson — Washington
 T. Carter — Mississippi
 N. Chiasson — Prince Edward
 Island, Canada
 T. G. Clark — Oregon
 B. J. Crawford — Georgia
 E. L. Creaser — New Brunswick,
 Canada
 J. J. Dacanay — Hawaii
 M. Davidian — California
 R. DeLury — Manitoba, Canada
 A. Denham — Michigan
 C. Derks — Wisconsin
 C. Dinic — Ontario, Canada
 D. A. Ehler — Nova Scotia, Canada
 S. D. Frazier — Washington
 A. Gibbs — Wisconsin
 T. J. Granneman II — Oklahoma
 M. L. Jordan — Kentucky
 R. Kamboj — British Columbia,
 Canada

E. Kawa — Massachusetts
 A. Khssassi — Quebec, Canada
 D. Kinney — North Carolina
 K. S. Lane — Alaska
 A. M. Lorimor — South Dakota
 T. Maher — Illinois
 M. Mailman — Northwest
 Territories, Canada
 W. McGivney — City of New York,
 New York
 S. F. Noonan — Maryland
 B. S. Oliver — New Hampshire
 J. L. Oliver — Nevada
 P. B. Polick — Illinois
 B. Ricks — Montana
 W. J. Ross — Pennsylvania
 M. H. Sansone — New York
 T. S. Seime — North Dakota
 C. S. Selinger — Saskatchewan,
 Canada
 J. E. Sharier — Ohio
 R. Spiker — North Carolina
 D. Srnic — Alberta, Canada
 D. J. Stenrose — Michigan
 R. J. Stimson II — Kansas
 R. K. Sturm — Utah
 D. K. Sullivan — Arkansas
 J. Taveras — Rhode Island
 R. Termini — Louisiana
 S. Van Slavens — Delaware
 D. M. Warburton — Florida
 E. Wiggins — Alabama

INTERNATIONAL INTEREST REVIEW GROUP

V. Felix
 Y.-G. Kim
 S. H. Leong
 W. Lin
 O. F. Manafa

C. Minu
 Y.-W. Park
 A. R. Reynaga Nogales
 P. Williamson

COMMITTEE ON POWER BOILERS (BPV I)

E. M. Ortman, *Chair*
 D. E. Tompkins, *Vice Chair*
 U. D'Urso, *Staff Secretary*
 D. I. Anderson
 R. Antoniuk
 J. L. Arnold
 K. K. Coleman
 S. Fincher
 G. W. Galanes
 P. F. Gilston
 T. E. Hansen
 J. S. Hunter
 M. Ishikawa
 M. Lemmons
 M. Lewis
 C. T. McDaris
 R. E. McLaughlin
 L. Moedinger
 Y. Oishi
 M. Ortolani

A. Spangenberg
 D. E. Tuttle
 J. Vattappilly
 M. Wadkinson
 F. Zeller
 H. Michael, *Contributing Member*
 D. Berger, *Honorary Member*
 P. D. Edwards, *Honorary Member*
 J. G. Feldstein, *Honorary Member*
 D. N. French, *Honorary Member*
 J. Hainsworth, *Honorary Member*
 J. F. Henry, *Honorary Member*
 P. A. Molvie, *Honorary Member*
 J. T. Pillow, *Honorary Member*
 B. W. Roberts, *Honorary Member*
 J. M. Tanzosh, *Honorary Member*
 R. V. Wielgoszinski, *Honorary
 Member*
 R. L. Williams, *Honorary Member*

Executive Committee (BPV I)

D. E. Tompkins, *Chair*
 E. M. Ortman, *Vice Chair*
 P. Becker
 J. R. Braun
 P. F. Gilston
 A. Hantodkar

M. Lewis
 C. T. McDaris
 L. S. Nicol
 A. Spangenberg
 K. Thanupillai
 M. Wadkinson

Subgroup on Design (BPV I)

C. T. McDaris, *Chair*
 L. S. Tsai, *Secretary*
 T. K. Acharya
 D. I. Anderson
 P. Becker
 T. Huynh

L. Krupp
 N. S. Ranck
 J. Vattappilly
 M. Wadkinson
 C. Welles

Subgroup on Fabrication and Examination (BPV I)

P. F. Gilston, *Chair*
 P. Becker, *Vice Chair*
 J. L. Arnold
 K. K. Coleman
 S. Fincher
 G. W. Galanes

T. E. Hansen
 M. Lewis
 S. J. Lombardo
 C. T. McDaris
 R. E. McLaughlin
 Y. Oishi

Subgroup on General Requirements and Piping (BPV I)

D. E. Tompkins, *Chair*
 M. Wadkinson, *Vice Chair*
 M. Lemmons, *Secretary*
 R. Antoniuk
 T. E. Hansen
 M. Ishikawa

S. J. Lombardo
 R. E. McLaughlin
 L. Moedinger
 E. M. Ortman
 D. E. Tuttle
 J. Vattappilly

Subgroup on Locomotive Boilers (BPV I)

J. R. Braun, *Chair*
 S. M. Butler, *Secretary*
 G. W. Galanes
 S. A. Lee

L. Moedinger
 G. M. Ray
 M. W. Westland

Subgroup on Materials (BPV I)

M. Lewis, *Chair*
 L. S. Nicol, *Vice Chair*
 S. H. Bowes
 K. K. Coleman
 G. W. Galanes
 P. F. Gilston
 K. Hayes
 J. S. Hunter
 E. Liebl

F. Masuyama
 M. Ortolani
 D. W. Rahoi
 F. Zeller
 B. W. Roberts, *Contributing
 Member*
 J. M. Tanzosh, *Contributing
 Member*

Subgroup on Solar Boilers (BPV I)

R. E. Hearne, *Secretary*
 S. Fincher

J. S. Hunter
 P. Swarnkar

Task Group on Additive Manufacturing (BPV I)

K. K. Coleman, *Chair*
 P. Becker, *Secretary*
 J. L. Arnold
 G. W. Galanes

P. F. Gilston
 L. Moedinger
 J. Vattappilly

Task Group on Modernization (BPV I)

S. J. Lombardo, <i>Chair</i>	G. W. Galanes
U. D'Urso, <i>Staff Secretary</i>	R. E. McLaughlin
D. I. Anderson	E. M. Ortman
J. L. Arnold	D. E. Tuttle

European International Working Group (BPV I)

A. Spangenberg, <i>Chair</i>	H. Michael
B. Daume	F. Miunske
J. Fleischfresser	M. Sykora
C. Jaekel	P. Chavdarov, <i>Contributing Member</i>
R. Kauer	J. Henrichsmeyer, <i>Contributing Member</i>
D. Koelbl	B. Müller, <i>Contributing Member</i>
S. Krebs	
T. Ludwig	
R. A. Meyers	

India International Working Group (BPV I)

K. Thanupillai, <i>Chair</i>	R. Madnani
A. Hantodkar, <i>Vice Chair</i>	S. Purkait
A. Ghosh, <i>Secretary</i>	A. Relekar
P. Brahma	M. Shiroya
H. Dalal	D. K. Shrivastava
T. Dhanraj	K. Singha
A. S. Ganesh	R. Sundararaj
S. Gopalakrishnan	S. Velu
A. Jain	S. Venkataramana

COMMITTEE ON MATERIALS (BPV II)

G. W. Galanes, <i>Chair</i>	F. Zeller
M. Ortolani, <i>Vice Chair</i>	J. Cameron, <i>Contributing Member</i>
C. E. Rodrigues, <i>Staff Secretary</i>	A. Chaudouet, <i>Contributing Member</i>
A. Appleton	K. K. Coleman, <i>Contributing Member</i>
P. Chavdarov	D. W. Gandy, <i>Contributing Member</i>
J. F. Grubb	K. L. Hayes, <i>Contributing Member</i>
J. A. Hall	W. Hoffelner, <i>Contributing Member</i>
D. O. Henry	K. E. Orie, <i>Contributing Member</i>
K. M. Hottle	D. T. Peters, <i>Contributing Member</i>
M. Ishikawa	B. W. Roberts, <i>Contributing Member</i>
M. Kowalczyk	J. M. Tanzosh, <i>Contributing Member</i>
D. L. Kurle	E. Uptis, <i>Contributing Member</i>
F. Masuyama	T. M. Cullen, <i>Honorary Member</i>
S. Neilsen	G. C. Hsu, <i>Honorary Member</i>
L. S. Nicol	
D. W. Raho	
W. Ren	
E. Shapiro	
R. C. Sutherland	

Executive Committee (BPV II)

G. W. Galanes, <i>Chair</i>	K. L. Hayes
C. E. Rodrigues, <i>Staff Secretary</i>	K. M. Hottle
E. Alexis	W. MacDonald
A. Appleton	M. Ortolani
J. Cameron	P. K. Rai
P. Chavdarov	J. Robertson
J. F. Grubb	E. Shapiro
S. Guzey	

Subgroup on External Pressure (BPV II)

E. Alexis, <i>Chair</i>	J. F. Grubb
S. Guzey, <i>Vice Chair</i>	S. Krishnamurthy
J. A. A. Morrow, <i>Secretary</i>	D. L. Kurle
L. F. Campbell	R. W. Mikitka
H. Chen	P. K. Rai
M. Ghorashi	M. Wadkinson
D. S. Griffin	

Subgroup on Ferrous Specifications (BPV II)

K. M. Hottle, <i>Chair</i>	Y.-J. Kim
A. Appleton, <i>Vice Chair</i>	W. C. Mack
C. Hyde, <i>Secretary</i>	J. Nickel
D. Amire-Brahimi	D. Poweleit
G. Cuccio	R. Rezaeifar
O. Elkadim	R. Schmidt
D. Fialkowski	E. Uptis
J. Grimm	L. Watzke
J. F. Grubb	C. Meloy, <i>Contributing Member</i>
D. S. Janikowski	

Subgroup on International Material Specifications (BPV II)

P. Chavdarov, <i>Chair</i>	D. O. Henry
M. Ishikawa, <i>Vice Chair</i>	W. M. Lundy
C. Zhou, <i>Secretary</i>	F. Zeller
A. Chaudouet	T. F. Miskell, <i>Contributing Member</i>
H. Chen	E. Uptis, <i>Contributing Member</i>
A. F. Garbolevsky	

Subgroup on Nonferrous Alloys (BPV II)

J. Robertson, <i>Chair</i>	R. Rezaeifar
W. MacDonald, <i>Vice Chair</i>	E. Shapiro
R. M. Beldyk	J. Shubilla
J. M. Downs	R. C. Sutherland
H. Dutta	R. Wright
J. F. Grubb	S. Yem
J. A. Hall	D. B. Denis, <i>Contributing Member</i>
D. Maitra	D. T. Peters, <i>Contributing Member</i>
D. W. Raho	

Subgroup on Physical Properties (BPV II)

P. K. Rai, <i>Chair</i>	P. K. Lam
S. Neilsen, <i>Vice Chair</i>	D. W. Raho
D. Chandiramani	E. Shapiro
H. Eshraghi	D. K. Verma
J. F. Grubb	S. Yem
B. F. Hantz	D. B. Denis, <i>Contributing Member</i>
R. D. Jones	

Subgroup on Strength, Ferrous Alloys (BPV II)

M. Ortolani, <i>Chair</i>	F. Masuyama
S. Rosinski, <i>Vice Chair</i>	M. Osterfoss
L. S. Nicol, <i>Secretary</i>	D. W. Raho
G. W. Galanes	M. Ueyama
J. A. Hall	F. Zeller
M. Ishikawa	F. Abe, <i>Contributing Member</i>
S. W. Knowles	

Subgroup on Strength of Weldments (BPV II & BPV IX)

K. L. Hayes, *Chair*
 G. W. Galanes, *Vice Chair*
 S. H. Bowes, *Secretary*
 K. K. Coleman, *Chair*
 M. Denault
 D. W. Gandy
 M. Ghahremani

W. F. Newell, Jr.
 J. A. Penso
 D. W. Rahoi
 W. J. Sperko
 J. P. Swezy, Jr.
 B. W. Roberts, *Contributing Member*

China International Working Group (BPV II)

Sanjiang Liu, *Chair*
 H. Zhang, *Vice Chair*
 T. Xu, *Secretary*
 W. Cai
 W. Fang
 F. Kong
 H. Li
 J. Li
 Z. Rongcan
 S. Tan

C. Wang
 Jinguang Wang
 Jiongxiang Wang
 Q.-J. Wang
 H.-C. Yang
 J. Yang
 L. Yin
 X.-H. Zhang
 Y. Zhang

COMMITTEE ON CONSTRUCTION OF NUCLEAR FACILITY COMPONENTS (BPV III)**Working Group on Creep Strength Enhanced Ferritic Steels (BPV II)**

M. Ortolani, *Chair*
 G. W. Galanes, *Vice Chair*
 P. Becker, *Secretary*
 S. H. Bowes
 K. Kimura
 M. Lang
 S. Luke
 F. Masuyama
 T. Melfi
 W. F. Newell, Jr.

J. J. Sanchez-Hanton
 J. A. Siefert
 W. J. Sperko
 F. Zeller
 F. Abe, *Contributing Member*
 K. K. Coleman, *Contributing Member*
 J. M. Tanzosh, *Contributing Member*

R. B. Keating, *Chair*
 T. M. Adams, *Vice Chair*
 D. E. Matthews, *Vice Chair*
 A. Maslowski, *Staff Secretary*
 A. Appleton
 S. Asada
 R. W. Barnes
 W. H. Borter
 M. E. Cohen
 R. P. Deubler
 P. R. Donavin
 A. C. Eberhardt
 J. V. Gardiner
 W. J. Geringer
 J. Grimm
 S. Hunter
 R. I. Jetter
 J. I. Kim
 G. H. Koo
 D. W. Lewis
 M. A. Lockwood
 D. W. Mann
 K. A. Manoly

K. Matsunaga
 B. McGlone
 S. McKillop
 J. B. McLean
 J. C. Minichiello
 M. N. Mitchell
 T. Nagata
 J. B. Ossmann
 S. Pellet
 E. L. Pleins
 W. J. Sperko
 Y. J. Wang
 W. Windes
 C. Basavaraju, *Alternate*
 T. P. Davis, *Contributing Member*
 T.-L. Sham, *Contributing Member*
 C. T. Smith, *Contributing Member*
 R. M. Jesse, *Honorary Member*
 E. B. Branch, *Honorary Member*
 M. N. Bressler, *Honorary Member*
 G. D. Cooper, *Honorary Member*
 D. F. Landers, *Honorary Member*
 C. Pieper, *Honorary Member*

Working Group on Data Analysis and the Materials Properties Database (BPV II)

W. MacDonald, *Chair*
 C. E. Rodrigues, *Staff Secretary*
 J. F. Grubb
 F. Masuyama
 S. Neilsen
 M. Ortolani
 R. C. Sutherlin
 M. J. Swindeman
 F. Abe, *Contributing Member*

D. Andrei, *Contributing Member*
 J. Cameron, *Contributing Member*
 G. W. Galanes, *Contributing Member*
 W. C. Mack, *Contributing Member*
 D. T. Peters, *Contributing Member*
 W. Ren, *Contributing Member*
 E. Shapiro, *Contributing Member*

Executive Committee (BPV III)

R. B. Keating, *Chair*
 A. Maslowski, *Secretary*
 T. M. Adams
 T. P. Davis
 P. R. Donavin
 D. W. Lewis
 D. Mann

K. A. Manoly
 D. E. Matthews
 B. McGlone
 S. McKillop
 J. B. McLean
 Yanli Wang
 K. A. Kavanagh, *Alternate*

Task Group on Modernization of Materials Data (BPV II)

C. E. Rodrigues, *Staff Secretary*
 E. Alexis
 M. Brijlani
 D. B. Denis
 G. W. Galanes
 J. A. Hall
 B. F. Hantz
 A. Hassan
 W. MacDonald

S. Neilsen
 L. S. Nicol
 W. Ren
 J. C. Sowinski
 M. Wadkinson
 J. Cameron, *Contributing Member*
 J. F. Grubb, *Contributing Member*
 W. Hoffelner, *Contributing Member*

Latin America International Working Group (BPV III)

M. F. Liendo, *Chair*
 J. Fernández, *Vice Chair*
 O. Martinez, *Staff Secretary*
 P. Yamamoto, *Secretary*
 E. H. Aldaz
 G. O. Anteri
 A. P. Antipasti
 D. O. Bordato
 G. Bourguigne
 M. Brusa
 A. Claus
 R. G. Cocco

A. J. Dall'Osto
 J. I. Duo
 M. M. Gamizo
 I. M. Guerreiro
 I. A. Knorr
 D. E. Matthews
 A. E. Pastor
 M. Rivero
 R. Taboada
 O. A. Verastegui
 M. D. Vigliano
 M. Zunino

China International Working Group (BPV III)

Yong Wang, <i>Chair</i>	C. Peiyin
J. Gu, <i>Vice Chair</i>	Z. Sun
C. Jiang, <i>Vice Chair</i>	G. Tang
H. Yu, <i>Secretary</i>	L. Ting
L. Feng	J. Wen
L. Guo	F. Wu
D. Kang	C. Yang
Y. Li	P. Yang
H. Lin	W. Yang
Shenghua Liu	H. Yin
W. Liu	D. Yuangang
J. Ma	D. Zhao
K. Mao	Z. Zhong
D. E. Matthews	Q. Zhou
J. Ming	H. Zhu
W. Pei	

Korea International Working Group (BPV III)

G. H. Koo, <i>Chair</i>	B. Lee
O.-S. Kim, <i>Secretary</i>	D. Lee
H. Ahn	D. W. Lee
S. Cho	Sanghoon Lee
G.-S. Choi	Sungjae Lee
M. Choi	S.-G. Lee
M.-J. Choi	H. Lim
S. Choi	I.-K. Nam
J. Y. Hong	C.-K. Oh
N.-S. Huh	C.-Y. Oh
S. S. Hwang	E.-J. Oh
C. Jang	C. Park
I.-S. Jeong	H. Park
S. H. Kang	Y.-H. Park
J. Kim	Y. S. Pyun
J. I. Kim	J. H. Seo
J.-S. Kim	T. Shin
M.-W. Kim	S. Song
S.-S. Kim	T.-K. Song
Y.-B. Kim	W. J. Sperko
Y.-S. Kim	J. S. Yang
D. Kwon	O. Yoo

European International Working Group (BPV III)

J. Wendt, <i>Chair</i>	F. Juettemann
D. Koelbl, <i>Vice Chair</i>	M. H. Koeppen
R. Gersinska, <i>Secretary</i>	C. Kuschke
P. Ancion	H.-W. Lange
P. R. Donavin	T. Ludwig
R. Döring	M. Reichert
C. G. Frantescu	G. Roos
T. Hantzka	J. Rudolph
A. Huber	L. Sybertz
R. E. Hueggenberg	I. Tewes
E. Iacopetta	R. Tiete
A. Juengert	F. Wille

Seismic Design Steering Committee (BPV III)

T. M. Adams, <i>Chair</i>	R. M. Pace
K. Gresh, <i>Secretary</i>	M. Pérès
C. Basavaraju	K. Shibukuwa
D. Chowdhury	F. G. Abatt, <i>Contributing Member</i>
R. Döring	M. Arcaro, <i>Contributing Member</i>
G. H. Koo	P. R. Donavin, <i>Contributing Member</i>
A. Maekawa	
J. B. McLean	R. W. Haupt, <i>Contributing Member</i>

Task Group on Alternate Requirements (BPV III)

J. Wen, <i>Chair</i>	K. A. Manoly
R. R. Romano, <i>Secretary</i>	D. E. Matthews
T. Basso	S. McKillop
P. J. Coco	B. P. Nolan
P. R. Donavin	J. B. Ossmann
J. V. Gardiner	E. C. Renaud
F. Grant	M. A. Richter
J. Grimm	R. Summitt
R. S. Hill III	K. Voelsing
M. Kris	Yanli Wang
M. A. Lockwood	I. H. Tseng, <i>Alternate</i>

India International Working Group (BPV III)

S. B. Parkash, <i>Chair</i>	T. Mukherjee
V. Sehgal, <i>Vice Chair</i>	D. Narain
M. Brijlani, <i>Secretary</i>	A. D. Paranjpe
S. Aithal	J. R. Patel
A. D. Bagdare	E. L. Pleins
H. Dalal	S. Ponnappan
S. K. Goyal	T. J. P. Rao
D. Kulkarni	S. Singh
Raj Kumar	B. K. Sreedhar
Ritesh Kumar	N. Mistry, <i>Alternate</i>
S. Kumar	

United Kingdom International Working Group (BPV III)

P. M. James, <i>Chair</i>	S. A. Jones
J. Emslie, <i>Vice Chair</i>	B. McGlone
C. B. Carpenter, <i>Secretary</i>	B. Pellereau
T. Bann	E. I. S. Pendry
M. J. Chevalier	J. Randles
A. J. Cole-Baker	C. R. Schneider
M. Consonni	J. W. Stairmand
M. J. Crathorne	J. Sulley
P. Gill	J. Talamantes-Silva
G. Innes	A. J. Holt, <i>Contributing Member</i>

Special Working Group on New Plant Construction Issues (BPV III)

J. B. Ossmann, *Chair*
 A. Maslowski, *Staff Secretary*
 M. C. Buckley, *Secretary*
 M. Arcaro
 K. Burnett
 A. Cardillo
 P. J. Coco
 K. Harris
 E. Henry
 J. Honcharik
 M. Kris
 R. E. McLaughlin
 A. McLendon

Z. McLucas
 N. J. McTiernan
 K. Pigg
 E. L. Pleins
 J. Pollak
 D. W. Sandusky
 M. C. Scott
 R. R. Stevenson
 H. Xu
 J. Yan
 J. C. Minichiello, *Contributing Member*

Special Working Group on Editing and Review (BPV III)

D. E. Matthews, *Chair*
 R. P. Deubler
 A. C. Eberhardt
 S. Hunter
 B. McGlone

J. C. Minichiello
 J. F. Strunk
 Yanli Wang
 C. Wilson

Special Working Group on HDPE Stakeholders (BPV III)

S. Patterson, *Secretary*
 M. Kuntz

J. E. O'Sullivan

Special Working Group on Honors and Awards (BPV III)

R. W. Barnes, *Chair*
 A. Appleton
 R. M. Jessee

D. E. Matthews
 J. C. Minichiello

Special Working Group on International Meetings and IWG Liaisons (BPV III)

D. E. Matthews, *Chair*
 A. Maslowski, *Staff Secretary*
 R. W. Barnes

P. R. Donavin
 E. L. Pleins
 W. J. Sperko

Joint ACI-ASME Committee on Concrete Components for Nuclear Service (BPV III)

J. B. McLean, *Chair*
 L. J. Colarusso, *Vice Chair*
 A. Dinizulu, *Staff Secretary*
 S. Bae
 C. J. Bang
 A. C. Eberhardt
 B. D. Hovis
 T. C. Inman
 C. Jones
 T. Kang
 N.-H. Lee
 S. Malushte
 J. A. Munshi
 T. Muraki

J. S. Saini
 J. F. Strunk
 G. Thomas
 A. Varma
 S. Wang
 A. Istar, *Alternate*
 A. Adediran, *Contributing Member*
 J.-B. Domage, *Contributing Member*
 P. S. Ghosal, *Contributing Member*
 M. R. Senecal, *Contributing Member*
 Z. Shang, *Contributing Member*
 M. Sircar, *Contributing Member*
 C. T. Smith, *Contributing Member*

Special Working Group on Modernization (SG Div 2) (BPV III)

A. Varma, *Chair*
 J. B. McLean, *Vice Chair*
 J. S. Saini, *Vice Chair*
 A. Adediran
 S. Malushte

S. Wang
 I. Zivanovic
 R. Janowiak, *Contributing Member*
 F. Lin, *Contributing Member*
 J. A. Pires, *Contributing Member*

Task Group on Steel-Concrete Composite Containments (SG Div 2) (BPV III)

A. Varma, *Chair*
 R. Janowiak
 S. Malushte

J. B. McLean
 J. A. Pires
 J. S. Saini

Working Group on Design (SG Div 2) (BPV III)

N.-H. Lee, *Chair*
 S. Bae
 L. J. Colarusso
 A. C. Eberhardt
 B. D. Hovis
 T. C. Inman
 C. Jones
 J. A. Munshi
 T. Muraki
 J. S. Saini
 G. Thomas

S. Wang
 A. Istar, *Alternate*
 P. S. Ghosal, *Contributing Member*
 S.-Y. Kim, *Contributing Member*
 J. Kwon, *Contributing Member*
 S. E. Ohler-Schmitz, *Contributing Member*
 B. B. Scott, *Contributing Member*
 Z. Shang, *Contributing Member*
 M. Shin, *Contributing Member*
 M. Sircar, *Contributing Member*

Working Group on Materials, Fabrication, and Examination (SG Div 2) (BPV III)

C. Jones, *Chair*
 A. Eberhardt, *Vice Chair*
 C. J. Bang
 B. Birch
 J.-B. Domage
 T. Kang
 N.-H. Lee

Z. Shang
 J. F. Strunk
 I. Zivanovic
 A. A. Aboelmagd, *Contributing Member*
 P. S. Ghosal, *Contributing Member*

Subcommittee on Design (BPV III)

P. R. Donavin, *Chair*
 S. McKillop, *Vice Chair*
 R. P. Deubler, *Secretary*
 T. P. Davis
 M. A. Gray
 R. I. Jetter
 R. B. Keating
 J. I. Kim
 K. A. Manoly
 D. E. Matthews

M. N. Mitchell
 B. Pellereau
 Yanli Wang
 W. F. Weitzel
 C. Basavaraju, *Alternate*
 G. L. Hollinger, *Contributing Member*
 W. J. O'Donnell, Sr., *Contributing Member*
 K. Wright, *Contributing Member*

Subgroup on Component Design (SC-D) (BPV III)

D. E. Matthews, <i>Chair</i>	J. C. Minichiello
P. Vock, <i>Vice Chair</i>	T. Mitsuhashi
D. Chowdhury, <i>Secretary</i>	D. Murphy
D. J. Ammerman	T. M. Musto
G. A. Antaki	T. Nagata
J. J. Arthur	S. Pellet
S. Asada	S. Willoughby-Braun
C. Basavaraju	C. Wilson
N. A. Costanzo	T. M. Adams, <i>Contributing Member</i>
R. P. Deubler	R. B. Keating, <i>Contributing Member</i>
P. Hirschberg	O.-S. Kim, <i>Contributing Member</i>
M. Kassir	R. J. Masterson, <i>Contributing Member</i>
D. Keck	H. S. Mehta, <i>Contributing Member</i>
T. R. Liszkai	G. Z. Tokarski, <i>Contributing Member</i>
K. A. Manoly	J. P. Tucker, <i>Contributing Member</i>
R. Martin	
K. R. May	

Task Group on Pressurized Heavy Water Reactor (SG-CD) (BPV III)

R. W. Barnes, <i>Chair</i>	E. L. Pleins
M. Brijlani	W. D. Reinhardt
D. E. Matthews	C. A. Sanna
B. McGlone	V. Sehgal
J. B. Ossmann	S. Singh
S. B. Parkash	

Task Group to Improve Section III/XI Interface (SG-CD) (BPV III)

P. Vock, <i>Chair</i>	C. A. Nove
E. Henry, <i>Secretary</i>	T. Nuoffer
G. A. Antaki	J. B. Ossmann
A. Cardillo	A. T. Roberts III
D. Chowdhury	J. Sciulli
J. Honcharik	A. Udyawar
J. Hurst	S. Willoughby-Braun
J. Lambin	

Working Group on Core Support Structures (SG-CD) (BPV III)

R. Martin, <i>Chair</i>	M. D. Snyder
R. Z. Ziegler, <i>Secretary</i>	R. O. Vollmer
G. W. Delpont	T. M. Wiger
L. C. Hartless	C. Wilson
D. Keck	Y. Wong
T. R. Liszkai	K. Hsu, <i>Alternate</i>
M. Nakajima	H. S. Mehta, <i>Contributing Member</i>

Working Group on Design of Division 3 Containment Systems (SG-CD) (BPV III)

D. J. Ammerman, <i>Chair</i>	D. Siromani
S. Klein, <i>Secretary</i>	C. R. Sydnor
J. Bignell	R. Sypulski
G. Bjorkman	R. Williamson
V. Broz	X. Zhai
D. D. Imholte	X. Zhang
D. W. Lewis	J. Smith, <i>Alternate</i>
A. Rigato	J. C. Minichiello, <i>Contributing Member</i>
P. Sakalaukus, Jr.	

Working Group on HDPE Design of Components (SG-CD) (BPV III)

M. Brandes	K. A. Manoly
J. R. Hebeisen	D. P. Munson
P. Krishnaswamy	R. Stakenborghs
M. Kuntz	B. Lin, <i>Alternate</i>

Working Group on Piping (SG-CD) (BPV III)

G. A. Antaki, <i>Chair</i>	W. F. Weitze
S. Weindorf, <i>Secretary</i>	K. Hsu, <i>Alternate</i>
C. Basavaraju	R. B. Keating, <i>Contributing Member</i>
J. Catalano	T. B. Littleton, <i>Contributing Member</i>
C. M. Faidy	Y. Liu, <i>Contributing Member</i>
R. G. Gilada	J. F. McCabe, <i>Contributing Member</i>
M. A. Gray	J. C. Minichiello, <i>Contributing Member</i>
R. J. Gurdal	A. N. Nguyen, <i>Contributing Member</i>
R. W. Haupt	M. S. Sills, <i>Contributing Member</i>
A. Hirano	N. C. Sutherland, <i>Contributing Member</i>
P. Hirschberg	G. Z. Tokarski, <i>Contributing Member</i>
M. Kassir	E. A. Wais, <i>Contributing Member</i>
D. Lieb	C.-I. Wu, <i>Contributing Member</i>
M. Moenssens	
I.-K. Nam	
K. E. Reid II	
B. Still	
D. Vlaicu	

Working Group on Pressure Relief (SG-CD) (BPV III)

K. R. May, <i>Chair</i>	B. J. Yonsky
J. F. Ball, <i>Vice Chair</i>	Y. Wong, <i>Alternate</i>
R. Krithivasan, <i>Secretary</i>	J. Yu, <i>Alternate</i>
J. W. Dickson	M. Brown, <i>Contributing Member</i>
N. Hansing	S. T. French, <i>Contributing Member</i>
S. Jones	S. Ruesenberg, <i>Contributing Member</i>
D. Miller	
T. Patel	

Working Group on Pumps (SG-CD) (BPV III)

D. Chowdhury, <i>Chair</i>	K. J. Noel
J. V. Gregg, Jr., <i>Secretary</i>	D. Skidmore
B. Busse	J. Sulley
R. Ibrahim	Y. Wong
T. Johnson	N. Chandran, <i>Alternate</i>

Working Group on Supports (SG-CD) (BPV III)

N. A. Costanzo, <i>Chair</i>	G. Z. Tokarski
U. S. Bandyopadhyay, <i>Secretary</i>	L. Vandersip
K. Avrithi	P. Wiseman
N. M. Bisceglia	J. Bozga, <i>Alternate</i>
R. P. Deubler	R. J. Masterson, <i>Contributing Member</i>
N. M. Graham	R. Roche-Rivera, <i>Contributing Member</i>
Y. Matsubara	J. R. Stinson, <i>Contributing Member</i>
S. Pellet	
G. Thomas	

Working Group on Valves (SG-CD) (BPV III)

P. Vock, *Chair*
S. Jones, *Secretary*
M. C. Buckley
N. Hansing
G. A. Jolly
J. Lambin
T. Lippucci

C. A. Mizer
H. O'Brien
J. O'Callaghan
M. Rain
K. E. Reid II
J. Sulley
Y. Wong, *Alternate*

Working Group on Vessels (SG-CD) (BPV III)

D. Murphy, *Chair*
S. Willoughby-Braun, *Secretary*
J. J. Arthur
C. Basavaraju
M. Brijlani
L. Constantinescu
J. I. Kim
D. E. Matthews
T. Mitsuhashi
T. J. Schriefer

M. C. Scott
J. Shupert
D. Vlaicu
C. Wilson
R. Z. Ziegler
M. R. Breach, *Alternate*
B. Basu, *Contributing Member*
R. B. Keating, *Contributing Member*
W. F. Weitze, *Contributing Member*

Subgroup on Design Methods (SC-D) (BPV III)

S. McKillop, *Chair*
P. R. Donavin, *Vice Chair*
J. Wen, *Secretary*
K. Avrithi
M. A. Gray
J. V. Gregg, Jr.
K. Hsu
E. Isom
R. Kalnas
D. Keck
J. I. Kim
B. Pellereau

W. D. Reinhardt
P. Smith
R. O. Vollmer
W. F. Weitze
Y. Wong, *Alternate*
S. R. Gosselin, *Contributing Member*
H. T. Harrison III, *Contributing Member*
W. J. O'Donnell, Sr., *Contributing Member*
K. Wright, *Contributing Member*

Special Working Group on Computational Modeling for Explicit Dynamics (SG-DM) (BPV III)

G. Bjorkman, *Chair*
D. J. Ammerman, *Vice Chair*
V. Broz, *Secretary*
J. Bignell
S. Kuehner
D. Molitoris
W. D. Reinhardt
E. Rosvall

P. Sakalaukus, Jr.
D. Siromani
C.-F. Tso
M. C. Yaksh
U. Zencker
X. Zhang
M. R. Breach, *Contributing Member*
Y. Wong, *Contributing Member*

Working Group on Design Methodology (SG-DM) (BPV III)

B. Pellereau, *Chair*
R. O. Vollmer, *Secretary*
K. Avrithi
C. Basavaraju
F. Berkepile
M. Cho
D. Clarkson
C. M. Faigy
Y.-J. Gao
M. Kassar
J. I. Kim
T. R. Liszkai
D. Lytle
K. Matsunaga
S. Ranganath
W. D. Reinhardt
S. Wang

W. F. Weitze
J. Wen
T. M. Wiger
J. Wu
K. Hsu, *Alternate*
G. Banyay, *Contributing Member*
D. S. Bartran, *Contributing Member*
R. D. Blevins, *Contributing Member*
M. R. Breach, *Contributing Member*
H. T. Harrison III, *Contributing Member*
P. Hirschberg, *Contributing Member*
S. McKillop, *Contributing Member*
A. Walker, *Contributing Member*
K. Wright, *Contributing Member*

Working Group on Environmental Fatigue Evaluation Methods (SG-DM) (BPV III)

M. A. Gray, *Chair*
W. F. Weitze, *Secretary*
S. Asada
K. Avrithi
R. C. Cipolla
T. M. Damiani
C. M. Faigy
A. Hirano
P. Hirschberg
K. Hsu
A. Morley
J.-S. Park

B. Pellereau
T. Seppanen
D. Vlaicu
K. Wang
K. A. Manoly, *Alternate*
S. Cuvilliez, *Contributing Member*
T. D. Gilman, *Contributing Member*
S. R. Gosselin, *Contributing Member*
Y. He, *Contributing Member*
H. S. Mehta, *Contributing Member*
K. Wright, *Contributing Member*

Working Group on Fatigue Strength (SG-DM) (BPV III)

P. R. Donavin, *Chair*
T. M. Damiani
D. W. DeJohn
C. M. Faigy
P. Gill
R. J. Gurdal
K. Hsu
J. I. Kim
A. Morley
B. Pellereau
M. S. Shelton
I. Viscarra
Yanli Wang
W. F. Weitze

Y. Zou
C. E. Hinnant, *Contributing Member*
P. Hirschberg, *Contributing Member*
S. H. Kleinsmith, *Contributing Member*
S. Majumdar, *Contributing Member*
H. S. Mehta, *Contributing Member*
W. J. O'Donnell, Sr., *Contributing Member*
S. Ranganath, *Contributing Member*
K. Wright, *Contributing Member*

Working Group on Probabilistic Methods in Design (SG-DM) (BPV III)

M. Golliet, *Chair*
R. Kalnas, *Vice Chair*
G. Brouette
R. Fougerousse
J. Hakii
E. Hanson
D. O. Henry
A. Hirano

K. A. Manoly
A. Morley
B. Pellereau
A. Weaver
M. Yagodich
I. H. Tseng, *Alternate*
K. Avrithi, *Contributing Member*
R. S. Hill III, *Contributing Member*

Subgroup on Containment Systems for Spent Nuclear Fuel and High-Level Radioactive Material (BPV III)

D. W. Lewis, *Chair*
D. J. Ammerman, *Vice Chair*
S. Klein, *Secretary*
J. Bignell
G. Bjorkman
V. Broz
D. D. Imholte
A. Rigato
P. Sakalaukus, Jr.
D. Siromani

C. R. Sydnor
R. Sypulski
J. Wellwood
X. J. Zhai
X. Zhang
J. Smith, *Alternate*
W. H. Borter, *Contributing Member*
E. L. Pleins, *Contributing Member*
N. M. Simpson, *Contributing Member*

Subgroup on Fusion Energy Devices (BPV III)

T. P. Davis, *Chair*
A. Maslowski, *Staff Secretary*
M. Ellis, *Secretary*
L. Babu
M. Bashir
J. P. Blanchard
B. R. Doshi
L. El-Guebaly
R. Holmes
D. Johnson

I. Kimihiro
P. Mokaria
F. J. Schaaf, Jr.
P. Smith
Y. Song
D. White
R. W. Barnes, *Contributing Member*
W. K. Sowder, Jr., *Contributing Member*

Special Working Group on Fusion Stakeholders (SG-FED) (BPV III)

R. Holmes, *Chair*
C. Barnes
R. W. Barnes
J. Brister
A. A. Campbell
V. Chugh
T. P. Davis

S. S. Desai
F. Deschamps
M. Hua
S. Krishnan
W. K. Sowder, Jr.
N. Young

Working Group on General Requirements (SG-FED) (BPV III)

P. Smith, *Chair*
L. Babu
T. P. Davis
M. Ellis

B. McGlone
P. Mokaria
W. K. Sowder, Jr.
D. White, *Contributing Member*

Working Group on In-Vessel Components (SG-FED) (BPV III)

M. Bashir, *Chair*
T. P. Davis

S. T. Madabusi

Working Group on Magnets (SG-FED) (BPV III)

D. S. Bartran

W. K. Sowder, Jr., *Contributing Member*

Working Group on Materials (SG-FED) (BPV III)

T. P. Davis

Working Group on Vacuum Vessels (SG-FED) (BPV III)

I. Kimihiro, *Chair*
B. R. Doshi

D. Johnson

Subgroup on General Requirements (BPV III)

B. McGlone, *Chair*
A. McLendon, *Secretary*
V. Apostolescu
A. Appleton
S. Bell
G. Brouette
P. J. Coco
G. C. Deleanu
N. DeSantis
O. Elkadim
J. V. Gardiner
J. Grimm
J. Harris
J. W. Highlands
E. V. Imbro
K. A. Kavanagh
Y.-S. Kim
D. T. Meisch

L. Noyes
E. C. Renaud
T. N. Rezk
J. Rogers
B. S. Sandhu
R. Spuhl
J. L. Williams
Y. Diaz-Castillo, *Alternate*
J. DeKleine, *Contributing Member*
S. F. Harrison, Jr., *Contributing Member*
H. Michael, *Contributing Member*
D. J. Roszman, *Contributing Member*
C. T. Smith, *Contributing Member*
G. E. Szabatura, *Contributing Member*

Working Group on General Requirements for Graphite and Ceramic Composite Core Components and Assemblies (SG-GR) (BPV III)

W. J. Geringer, *Chair*
A. Appleton
J. R. Berry
A. A. Campbell
C. Cruz
Y. Diaz-Castillo
J. Lang

M. N. Mitchell
J. Potgieter
E. C. Renaud
S. Sekar
R. Spuhl
W. Windes
B. Lin, *Alternate*

Subgroup on High Temperature Reactors (BPV III)

Yanli Wang, *Chair*
N. Broom
F. W. Brust
M. E. Cohen
W. J. Geringer
B. F. Hantz
M. Hiser
R. I. Jetter
K. Kimura
G. H. Koo
W. Li
M. C. Messner

X. Wei
W. Windes
R. Wright
G. L. Zeng
J. Bass, *Alternate*
P. Carter, *Contributing Member*
W. O'Donnell, Sr., *Contributing Member*
T.-L. Sham
L. Shi, *Contributing Member*
R. W. Swindeman, *Contributing Member*

Special Working Group on High Temperature Reactor Stakeholders (SG-HTR) (BPV III)

M. E. Cohen, *Chair*
M. C. Albert
M. Arcaro
R. W. Barnes
R. Bass
N. Broom
K. Burnett
A. A. Campbell
V. Chugh
W. Corwin
G. C. Deleanu
R. A. Fleming
K. Harris

R. I. Jetter
G. H. Koo
N. J. McTiernan
M. N. Mitchell
K. J. Noel
J. Roll
B. Song
Yanli Wang
X. Wei
G. L. Zeng
R. M. Iyengar, *Alternate*
T. Asayama, *Contributing Member*

Task Group on Alloy 709 Code Case (SG-HTR) (BPV III)

Yanli Wang, <i>Chair</i>	W. J. Sperko
H. Mahajan, <i>Secretary</i>	R. Wright
R. I. Jetter	T.-L. Sham, <i>Contributing Member</i>
M. C. Messner	

Working Group on Allowable Stress Criteria (SG-HTR) (BPV III)

R. Wright, <i>Chair</i>	M. C. Messner
M. McMurtrey, <i>Secretary</i>	T. Patterson
R. W. Barnes	Yanli Wang
R. Bass	X. Wei
K. Kimura	R. M. Iyengar, <i>Alternate</i>
W. Li	R. W. Swindeman, <i>Contributing Member</i>
D. Maitra	
R. J. McReynolds	

Task Group on Class A Rewrite (SG-HTR) (BPV III)

Yanli Wang, <i>Chair</i>	N. J. McTiernan
R. W. Barnes	M. C. Messner
M. E. Cohen	T. Nguyen
R. I. Jetter	D. Pease
H. Mahajan	X. Wei
S. McKillop	J. Young

Working Group on Analysis Methods (SG-HTR) (BPV III)

M. C. Messner, <i>Chair</i>	X. Song
H. Mahajan, <i>Secretary</i>	Yanli Wang
R. Adibi-Asl	X. Wei
R. W. Barnes	S. X. Xu
J. A. Blanco	J. Young
P. Carter	J. Bass, <i>Alternate</i>
R. I. Jetter	M. R. Breach, <i>Contributing Member</i>
G. H. Koo	Y.-J. Gao, <i>Contributing Member</i>
T. Nguyen	T. Hassan, <i>Contributing Member</i>
M. Petkov	S. Krishnamurthy, <i>Contributing Member</i>
K. Pigg	M. J. Swindeman, <i>Contributing Member</i>
H. Qian	
T. Riordan	

Task Group on Division 5 AM Components (SG-HTR) (BPV III)

R. Wright, <i>Chair</i>	T. Patterson
R. W. Barnes	E. C. Renaud
F. W. Brust	D. Rudland
Z. Feng	B. Sutton
S. Lawler	I. J. Van Rooyen
X. Lou	Yanli Wang
M. McMurtrey	X. Wei
M. C. Messner	R. Bass, <i>Alternate</i>

Working Group on Creep-Fatigue and Negligible Creep (SG-HTR) (BPV III)

W. Li, <i>Chair</i>	M. McMurtrey
J. Bass	M. C. Messner
C. M. Brusconi	H. Qian
P. Carter	R. Rajasekaran
M. E. Cohen	M. Shah
J. I. Duo	Yanli Wang
R. I. Jetter	X. Wei
G. H. Koo	J. Young
H. Mahajan	R. Bass, <i>Alternate</i>

Task Group on Graphite Design Analysis (SG-HTR) (BPV III)

A. Mack, <i>Chair</i>	P.-A. Juan
J. Bass	J. Potgieter
S. Baylis	J. Quick
G. Beirnaert	M. Saitta
O. Booler	A. Walker

Working Group on Nonmetallic Design and Materials (SG-HTR) (BPV III)

W. Windes, <i>Chair</i>	J. Parks
W. J. Geringer, <i>Vice Chair</i>	K. Pigg
J. Potgieter, <i>Secretary</i>	J. Podhiny
G. Beirnaert	J. Roll
A. A. Campbell	A. Tzelepi
C. Chen	A. Walker
A. N. Chereskin	Yanli Wang
V. Chugh	G. L. Zeng
C. Contescu	J. Bass, <i>Alternate</i>
N. Gallego	A. Appleton, <i>Contributing Member</i>
S. T. Gonczy	R. W. Barnes, <i>Contributing Member</i>
K. Harris	S.-H. Chi, <i>Contributing Member</i>
M. G. Jenkins	Y. Katoh, <i>Contributing Member</i>
P.-A. Juan	J. B. Ossmann, <i>Contributing Member</i>
J. Lang	
A. Mack	
M. P. Metcalfe	J. Quick, <i>Contributing Member</i>
M. N. Mitchell	M. Saitta, <i>Contributing Member</i>

Task Group on High Temperature Piping Design (SG-HTR) (BPV-III)

G. A. Antaki, <i>Chair</i>	H. Mahajan
S. Weindorf, <i>Secretary</i>	J. C. Minichiello
R. Adibi-Asl	D. Pease
T. D. Al-Shawaf	Yanli Wang
D. Bankston, Jr.	C. D. Weary
R. P. Deubler	T.-L. Sham, <i>Contributing Member</i>
R. I. Jetter	

Subgroup on Materials, Fabrication, and Examination (BPV III)

D. W. Mann, <i>Chair</i>	M. Kris
J. Grimm, <i>Vice Chair</i>	T. Melfi
J. B. Ossmann, <i>Vice Chair</i>	I.-K. Nam
S. Hunter, <i>Secretary</i>	J. E. O'Sullivan
W. H. Borter	M. C. Scott
M. Brijlani	W. J. Sperko
G. R. Cannell	J. F. Strunk
A. Cardillo	W. Windes
S. Cho	R. Wright
P. J. Coco	H. Xu
R. H. Davis	S. Yee
D. B. Denis	J. Wise, Jr., <i>Alternate</i>
B. D. Frew	S. Wolbert, Jr., <i>Alternate</i>
D. W. Gandy	R. W. Barnes, <i>Contributing Member</i>
S. E. Gingrich	S. Levitus, <i>Contributing Member</i>
M. Golliet	H. Michael, <i>Contributing Member</i>
L. S. Harbison	

Working Group on Advanced Manufacturing (SG-MFE) (BPV III)

D. W. Mann, <i>Chair</i>	E. C. Renaud
D. W. Gandy, <i>Secretary</i>	W. J. Sperko
D. Chowdhury	J. F. Strunk
P. J. Coco	J. Sulley
B. D. Frew	S. Tate
J. Grimm	J. Wise
J. Lambin	S. Wolbert
T. Lippucci	H. Xu
T. Melfi	R. H. Davis, <i>Alternate</i>
A. Mori	S. Malik, <i>Contributing Member</i>

Joint Working Group on HDPE (SG-MFE) (BPV III)

M. Brandes, <i>Chair</i>	K. Manoly
T. M. Musto, <i>Chair</i>	D. P. Munson
J. B. Ossmann, <i>Secretary</i>	J. O'Sullivan
G. Brouette	V. Rohatgi
M. C. Buckley	F. Schaaf, Jr.
S. Choi	S. Schuessler
M. Golliet	R. Stakenborghs
J. Hebeisen	M. Troughton
J. Johnston, Jr.	P. Vibien
P. Krishnaswamy	J. Wright
M. Kuntz	T. Adams, <i>Contributing Member</i>
B. Lin	

COMMITTEE ON HEATING BOILERS (BPV IV)

M. Wadkinson, <i>Chair</i>	J. A. Hall
J. L. Kleiss, <i>Vice Chair</i>	M. Mengon
C. R. Ramcharran, <i>Staff Secretary</i>	Y. Teng
B. Ahee	D. Picart, <i>Delegate</i>
L. Badziagowski	Y. R. Cho, <i>Alternate</i>
T. L. Bedeaux	B. J. Iske, <i>Alternate</i>
B. Calderon	T. Wagner, <i>Alternate</i>
J. P. Chicoine	H. Michael, <i>Contributing Member</i>
C. Dinic	P. A. Molvie, <i>Contributing Member</i>
J. M. Downs	

Executive Committee (BPV IV)

M. Wadkinson, <i>Chair</i>	J. P. Chicoine
C. R. Ramcharran, <i>Staff Secretary</i>	J. A. Hall
T. L. Bedeaux	J. L. Kleiss

Subgroup on Cast Boilers (BPV IV)

J. P. Chicoine, <i>Chair</i>	J. L. Kleiss
J. M. Downs, <i>Vice Chair</i>	M. Mengon
C. R. Ramcharran, <i>Staff Secretary</i>	B. J. Iske, <i>Alternate</i>
T. L. Bedeaux	T. Wagner, <i>Alternate</i>
J. A. Hall	

Subgroup on Materials (BPV IV)

J. A. Hall, <i>Chair</i>	T. L. Bedeaux
J. M. Downs, <i>Vice Chair</i>	Y. Teng
C. R. Ramcharran, <i>Staff Secretary</i>	M. Wadkinson
L. Badziagowski	

Subgroup on Water Heaters (BPV IV)

J. L. Kleiss, <i>Chair</i>	C. Dinic
L. Badziagowski, <i>Vice Chair</i>	M. Mengon
C. R. Ramcharran, <i>Staff Secretary</i>	Y. Teng
B. Ahee	B. J. Iske, <i>Alternate</i>
M. Carlson	T. Wagner, <i>Alternate</i>
J. P. Chicoine	P. A. Molvie, <i>Contributing Member</i>

Subgroup on Welded Boilers (BPV IV)

T. L. Bedeaux, <i>Chair</i>	J. L. Kleiss
J. P. Chicoine, <i>Vice Chair</i>	M. Mengon
C. R. Ramcharran, <i>Staff Secretary</i>	M. Wadkinson
B. Ahee	M. Washington
E. Alexis	B. J. Iske, <i>Alternate</i>
L. Badziagowski	M. J. Melita, <i>Alternate</i>
B. Calderon	T. J. Wagner, <i>Alternate</i>
M. Carlson	P. A. Molvie, <i>Contributing Member</i>
C. Dinic	

COMMITTEE ON NONDESTRUCTIVE EXAMINATION (BPV V)

N. A. Finney, <i>Chair</i>	P. Lang
C. May, <i>Vice Chair</i>	T. R. Lerohl
C. R. Ramcharran, <i>Staff Secretary</i>	J. Schoneweis
D. Bajula	P. B. Shaw
P. L. Brown	C. Vorwald
M. A. Burns	M. Carlson, <i>Alternate</i>
N. Carter	J. E. Batey, <i>Contributing Member</i>
C. Emslander	T. Clausing, <i>Contributing Member</i>
A. F. Garbolevsky	J. F. Halley, <i>Contributing Member</i>
P. T. Hayes	R. W. Kruzic, <i>Contributing Member</i>
G. W. Hembree	L. E. Mullins, <i>Contributing Member</i>
F. B. Kovacs	H. C. Graber, <i>Honorary Member</i>
K. Krueger	T. G. McCarty, <i>Honorary Member</i>
B. D. Laite	

Executive Committee (BPV V)

C. May, <i>Chair</i>	F. B. Kovacs
N. A. Finney, <i>Vice Chair</i>	K. Krueger
C. R. Ramcharran, <i>Staff Secretary</i>	B. D. Laite
V. F. Godinez-Azcuaga	E. Peloquin
P. T. Hayes	C. Vorwald
G. W. Hembree	

Subgroup on General Requirements/Personnel Qualifications and Inquiries (BPV V)

C. Vorwald, <i>Chair</i>	P. Lang
K. Krueger, <i>Vice Chair</i>	T. R. Lerohl
D. Bajula	C. May
N. Carter	J. Schoneweis
P. Chavdarov	T. Clausing, <i>Contributing Member</i>
C. Emslander	J. F. Halley, <i>Contributing Member</i>
N. A. Finney	D. I. Morris, <i>Contributing Member</i>
G. W. Hembree	J. P. Swezy, Jr., <i>Contributing Member</i>
F. B. Kovacs	

Subgroup on Volumetric Methods (BPV V)

C. May, <i>Chair</i>	K. Krueger
P. T. Hayes, <i>Vice Chair</i>	N. Pasemko
P. L. Brown	E. Peloquin
N. A. Finney	J. Schoneweis
A. F. Garbolevsky	C. Vorwald
V. F. Godinez-Azcuaga	J. F. Halley, <i>Contributing Member</i>
C. Hansen	R. W. Kruzic, <i>Contributing Member</i>
R. W. Hardy	L. E. Mullins, <i>Contributing Member</i>
G. W. Hembree	C. Wassink, <i>Contributing Member</i>
F. B. Kovacs	

Working Group on Radiography (SG-VM) (BPV V)

C. Vorwald, <i>Chair</i>	B. D. Laite
D. M. Woodward, <i>Vice Chair</i>	T. R. Lerohl
D. Bajula	C. May
P. L. Brown	R. J. Mills
C. Emslander	J. F. Molinaro
A. F. Garbolevsky	N. Pasemko
R. W. Hardy	J. Schoneweis
G. W. Hembree	T. L. Clifford, <i>Contributing Member</i>
P. Howie	R. W. Kruzic, <i>Contributing Member</i>
F. B. Kovacs	

Working Group on Ultrasonics (SG-VM) (BPV V)

K. Krueger, <i>Chair</i>	C. May
D. Bajula, <i>Vice Chair</i>	E. Peloquin
D. Adkins	J. Schoneweis
C. T. Brown	D. Van Allen
C. Emslander	C. Vorwald
N. A. Finney	J. F. Halley, <i>Contributing Member</i>
P. Furr	R. W. Kruzic, <i>Contributing Member</i>
C. Hansen	P. Mudge, <i>Contributing Member</i>
P. T. Hayes	L. E. Mullins, <i>Contributing Member</i>
G. W. Hembree	M. J. Quarry, <i>Contributing Member</i>
B. D. Laite	J. Vanvelsor, <i>Contributing Member</i>
T. R. Lerohl	

Special Working Group for Advance UT Techniques (WG-UT) (BPV V)

K. Krueger, <i>Chair</i>	P. Hayes
J. Schoneweis, <i>Vice Chair</i>	B. D. Laite
D. Bajula	T. R. Lerohl
C. David	E. Peloquin
N. A. Finney	D. Tompkins
P. Furr	D. Van Allen
J. Garner	C. Wassink
C. Hansen	

Working Group on Acoustic Emissions (SG-VM) (BPV V)

V. F. Godinez-Azcuaga, <i>Chair</i>	S. R. Doctor
J. Catty, <i>Vice Chair</i>	N. F. Douglas, Jr.

Working Group on Full Matrix Capture (SG-VM) (BPV V)

E. Peloquin, <i>Chair</i>	M. Lozev
P. T. Hayes, <i>Vice Chair</i>	R. Nogueira
D. Bajula	D. Richard
J. Catty	M. Sens
N. A. Finney	D. Tompkins
J. L. Garner	J. F. Halley, <i>Contributing Member</i>
R. T. Grotenhuis	L. E. Mullins, <i>Contributing Member</i>
G. W. Hembree	C. Wassink, <i>Contributing Member</i>
K. Krueger	

Subgroup on Inservice Examination Methods and Techniques (BPV V)

P. T. Hayes, <i>Chair</i>	V. F. Godinez-Azcuaga
E. Peloquin, <i>Vice Chair</i>	C. Hansen
D. Bajula	G. W. Hembree
R. Barker	K. Krueger
R. J. Bunte	C. May
M. A. Burns	N. Pasemko
M. Carlson	D. D. Raimander
T. Demmer	B. Ray
N. Douglas, Jr.	J. Schoneweis
N. A. Finney	C. Vorwald

Working Group on Assisted Analysis (SG-ISI) (BPV V)

T. Demmer, <i>Chair</i>	G. W. Hembree
C. Hansen, <i>Vice Chair</i>	G. I. Kraljic
J. Aldrin	G. M. Lozev
J. Chen	R. S. F. Orozco
M. Elen	E. Peloquin
N. A. Finney	T. Thulien
V. F. Godinez-Azcuaga	J. Williams
R. T. Grotenhuis	S. Zafar
K. Hayes	

Working Group on Methods and Techniques (SG-ISI) (BPV V)

C. May, <i>Chair</i>	P. T. Hayes
R. J. Bunte, <i>Vice Chair</i>	K. Krueger
D. Bajula	B. D. Laite
R. Barker	G. Morais
M. A. Burns	N. Pasemko
M. Carlson	J. Schoneweis
J. Catty	

Working Group on Supplemental Requirements for Corrosion and Other Damage Mechanisms (SG-ISI) (BPV V)

J. Schoneweis, <i>Chair</i>	C. Hansen
N. Pasemko, <i>Vice Chair</i>	P. T. Hayes
D. Bajula	K. Krueger
R. Barker	E. Peloquin
N. A. Finney	I. Roux

Subgroup on Surface Examination Methods (BPV V)

B. D. Laite, <i>Chair</i>	C. May
D. Bajula	G. Morais
R. Behe	J. Schoneweis
R. M. Beldyk	P. B. Shaw
P. L. Brown	R. Tedder
N. Carter	C. Vorwald
C. Emslander	D. M. Woodward
N. Farenbaugh	T. Clausing, <i>Contributing Member</i>
N. A. Finney	J. F. Halley, <i>Contributing Member</i>
A. F. Garbolevsky	K. Hayes, <i>Contributing Member</i>
G. W. Hembree	R. W. Kruzic, <i>Contributing Member</i>
K. Krueger	L. E. Mullins, <i>Contributing Member</i>
T. R. Lerohl	C. Wassink, <i>Contributing Member</i>

Germany International Working Group (BPV V)

P. Chavdarov, <i>Chair</i>	C. Kringe
V. Pohl, <i>Vice Chair</i>	S. Mann
H.-P. Schmitz, <i>Secretary</i>	V. Reusch
D. Kaiser	P. Van IJS

India International Working Group (BPV V)

P. Kumar, <i>Chair</i>	J. V. Muthukumaraswamy
A. V. Bhagwat, <i>Vice Chair</i>	A. Relekar
V. Ligade, <i>Secretary</i>	V. J. Sonawane
S. Jobanputra	N. Suryawanshi
D. Joshi	D. B. Tanpure
G. R. Joshi	

Italy International Working Group (BPV V)

D. D. Raimander, <i>Chair</i>	E. Ferrari
O. Oldani, <i>Vice Chair</i>	M. A. Grimoldi
C. R. Ramcharran, <i>Staff Secretary</i>	G. Luoni
P. Campli, <i>Secretary</i>	U. Papponetti
M. Agostini	P. Pedersoli
T. Aldo	A. Veroni
F. Bresciani	M. Zambon
N. Caputo	G. Gobbi, <i>Contributing Member</i>
M. Colombo	A. Gusmaroli, <i>Contributing Member</i>
P. L. Dinelli	G. Pontiggia, <i>Contributing Member</i>
F. Ferrarese	

COMMITTEE ON PRESSURE VESSELS (BPV VIII)

S. C. Roberts, <i>Chair</i>	J. P. Swezy, Jr.
M. D. Lower, <i>Vice Chair</i>	S. Terada
J. Oh, <i>Staff Secretary</i>	E. Upitis
S. J. Rossi, <i>Staff Secretary</i>	A. Viet
S. R. Babka	K. Xu
L. Bower	K. Oyamada, <i>Delegate</i>
P. Chavdarov	M. E. Papponetti, <i>Delegate</i>
B. F. Hantz	G. Aurioles, Sr., <i>Contributing Member</i>
C. S. Hinson	R. J. Basile
J. Hoskinson	A. Chaudouet, <i>Contributing Member</i>
M. Kowalczyk	D. B. DeMichael, <i>Contributing Member</i>
D. L. Kurle	K. T. Lau, <i>Contributing Member</i>
R. Mahadeen	H. Michael, <i>Contributing Member</i>
S. A. Marks	R. W. Mikitka, <i>Contributing Member</i>
P. Matkovics	D. A. Swanson, <i>Contributing Member</i>
D. T. Peters	G. G. Karcher, <i>Honorary Member</i>
M. J. Pischke	U. R. Miller, <i>Honorary Member</i>
M. D. Rana	T. P. Pastor, <i>Honorary Member</i>
G. B. Rawls, Jr.	K. K. Tam, <i>Honorary Member</i>
F. L. Richter	
C. D. Rodery	
J. C. Sowinski	
D. Srnic	
P. L. Sturgill	
K. Subramanian	

Executive Committee (BPV VIII)

M. D. Lower, <i>Chair</i>	J. Hoskinson
S. J. Rossi, <i>Staff Secretary</i>	P. Matkovics
G. Aurioles, Sr.	S. C. Roberts
C. W. Cary	J. C. Sowinski
P. Chavdarov	K. Subramanian
T. Halligan	K. Xu

Subgroup on Design (BPV VIII)

J. C. Sowinski, <i>Chair</i>	S. Terada
C. S. Hinson, <i>Vice Chair</i>	K. Xu
S. R. Babka	K. Oyamada, <i>Delegate</i>
O. A. Barsky	M. E. Papponetti, <i>Delegate</i>
M. Faulkner	G. Aurioles, Sr., <i>Contributing Member</i>
D. Francis	R. J. Basile, <i>Contributing Member</i>
B. F. Hantz	D. Chandiramani, <i>Contributing Member</i>
C. E. Hinnant	M. H. Jawad, <i>Contributing Member</i>
S. Krishnamurthy	P. K. Lam, <i>Contributing Member</i>
D. L. Kurle	K. Mokhtarian, <i>Contributing Member</i>
K. Kescu	C. D. Rodery, <i>Contributing Member</i>
M. D. Lower	D. A. Swanson, <i>Contributing Member</i>
R. W. Mikitka	K. K. Tam, <i>Contributing Member</i>
B. Millet	E. Upitis, <i>Contributing Member</i>
M. D. Rana	
G. B. Rawls, Jr.	
S. C. Roberts	
T. G. Seipp	
D. Srnic	

Working Group on Design-by-Analysis (BPV VIII)

B. F. Hantz, <i>Chair</i>	S. Krishnamurthy
T. W. Norton, <i>Secretary</i>	C. Nadarajah
J. Bedoya	T. G. Seipp
A. Feller	M. Shah
S. Guzey	S. Terada
C. E. Hinnant	D. A. Arnett, <i>Contributing Member</i>
S. Kataoka	A. Mann, <i>Contributing Member</i>
S. Kilambi	K. Saboda, <i>Contributing Member</i>
K. D. Kirkpatrick	

Working Group on Elevated Temperature Design (BPV I and VIII)

C. Nadarajah, <i>Chair</i>	C. T. McDaris
L. S. Tsai, <i>Secretary</i>	M. C. Messner
D. Anderson	M. N. Mitchell
D. Dewees	P. Prueter
B. F. Hantz	A. Ramos
R. I. Jetter	M. Rathinasabapathy
S. Kataoka	M. J. Swindeman
S. Krishnamurthy	A. Mann, <i>Contributing Member</i>
S. R. Kumhari	N. McMurray, <i>Contributing Member</i>
T. Le	B. J. Mollitor, <i>Contributing Member</i>
B.-L. Lyow	

Subgroup on Fabrication and Examination (BPV VIII)

T. Halligan, <i>Chair</i>	B. F. Shelley
D. I. Morris, <i>Vice Chair</i>	P. L. Sturgill
D. Smith, <i>Secretary</i>	J. P. Swezy, Jr.
J. Lu	E. Uptis
S. A. Marks	C. Violand
O. Mulet	K. Oyamada, <i>Delegate</i>
M. J. Pischke	W. J. Bees, <i>Contributing Member</i>
M. J. Rice	L. F. Campbell, <i>Contributing Member</i>
J. Roberts	N. Carter, <i>Contributing Member</i>
C. D. Rodery	

Subgroup on General Requirements (BPV VIII)

J. Hoskinson, <i>Chair</i>	J. Rust
M. Faulkner, <i>Vice Chair</i>	P. T. Shanks
N. Barkley	J. C. Sowinski
T. P. Beirne	P. Speranza
R. Darby	D. Srnic
Z. Jakovljevic	D. B. Stewart
M. D. Lower	D. B. DeMichael, <i>Contributing Member</i>
T. Newman	T. P. Pastor, <i>Contributing Member</i>
I. A. Powell	R. Robles, <i>Contributing Member</i>
J. Qu	D. A. Swanson, <i>Contributing Member</i>
G. B. Rawls, Jr.	Y. Yang, <i>Contributing Member</i>
F. L. Richter	
S. C. Roberts	

Task Group on Electrochemical Cell Stacks (TG-ECS) (BPV VIII)

K. Xu, <i>Chair</i>	K. Choi, <i>Contributing Member</i>
K. Quackenbush, <i>Vice Chair</i>	L. T. Dalton, <i>Contributing Member</i>
N. Barkley	M. Duda, <i>Contributing Member</i>
E. Gadsby	R. Fournier, <i>Contributing Member</i>
S. Goyette	E. Gernot, <i>Contributing Member</i>
T. Halligan	S. Grimm, <i>Contributing Member</i>
R. Kauer	N. Hart, <i>Contributing Member</i>
P. Matkovic	R. Müller, <i>Contributing Member</i>
L. Moulthrop	P. K. Panigrahy, <i>Contributing Member</i>
J. Panicker	R. Robles, <i>Contributing Member</i>
E. Prause	M. Stelzel, <i>Contributing Member</i>
P. T. Shanks	M. Sweetland, <i>Contributing Member</i>
S. Ulemek	
E. Andrade, <i>Contributing Member</i>	
B. D. Carter, <i>Contributing Member</i>	

Task Group on Fired Heater Pressure Vessels (BPV VIII)

J. Hoskinson, <i>Chair</i>	P. T. Shanks
D. Nelson	E. Smith
R. Robles	D. Srnic
J. Rust	

Subgroup on Heat Transfer Equipment (BPV VIII)

P. Matkovic, <i>Chair</i>	E. Smith
L. Bower, <i>Vice Chair</i>	A. M. Voytko
T. Bunyarattaphantu, <i>Secretary</i>	R. P. Wiberg
S. R. Babka	G. Auriolles, Sr., <i>Contributing Member</i>
J. H. Barbee	K. M. Chikhaliya, <i>Contributing Member</i>
O. A. Barsky	J. Pasek, <i>Contributing Member</i>
A. Chaudouet	D. Srnic, <i>Contributing Member</i>
D. L. Kurle	Z. Tong, <i>Contributing Member</i>
R. Mahadeen	
S. Mayeux	
S. Neilsen	

Working Group on Plate Heat Exchangers (BPV VIII)

D. I. Morris, <i>Chair</i>	P. Matkovic
S. R. Babka	M. J. Pischke
V. Gudge	P. T. Shanks
T. Halligan	E. Smith
Z. Jakovljevic	D. Srnic

Subgroup on High Pressure Vessels (BPV VIII)

K. Subramanian, <i>Chair</i>	F. W. Tatar
M. Sarzynski, <i>Vice Chair</i>	S. Terada
A. Dinizulu, <i>Staff Secretary</i>	Y. Xu
L. P. Antalffy	A. M. Clayton, <i>Contributing Member</i>
N. Barkley	R. Cordes, <i>Contributing Member</i>
J. Barlow	R. D. Dixon, <i>Contributing Member</i>
R. C. Biel	J. Hademenos, <i>Contributing Member</i>
P. N. Chaku	R. M. Hoshman, <i>Contributing Member</i>
L. Fridlund	F. Kirkemo, <i>Contributing Member</i>
D. Fuenmayor	G. M. Mital, <i>Contributing Member</i>
J. Gibson	M. Parr, <i>Contributing Member</i>
R. T. Hallman	M. D. Rana, <i>Contributing Member</i>
K. Karpanan	C. Tipple, <i>Contributing Member</i>
A. K. Khare	K.-J. Young, <i>Contributing Member</i>
G. T. Nelson	D. J. Burns, <i>Honorary Member</i>
D. T. Peters	G. J. Mraz, <i>Honorary Member</i>
E. D. Roll	
J. R. Sims	
E. Smith	

Subgroup on Materials (BPV VIII)

P. Chavdarov, <i>Chair</i>	D. Pugh
M. Kowalczyk, <i>Vice Chair</i>	D. W. Raho
S. Kilambi, <i>Secretary</i>	E. Uptis
J. Cameron	K. Xu
H. Dutta	M. Katcher, <i>Contributing Member</i>
J. F. Grubb	R. C. Sutherlin, <i>Contributing Member</i>
D. Maitra	
R. K. Patadia	

Subgroup on Toughness (BPV VIII)

K. Xu, <i>Chair</i>	J. P. Swezy, Jr.
T. Halligan, <i>Vice Chair</i>	S. Terada
T. Finn	E. Uptis
C. S. Hinson	J. Vattappilly
S. Kilambi	K. Oyamada, <i>Delegate</i>
D. L. Kurle	L. Dong, <i>Contributing Member</i>
T. Newman	S. Krishnamurthy, <i>Contributing Member</i>
J. Qu	D. A. Swanson, <i>Contributing Member</i>
M. D. Rana	
F. L. Richter	
K. Subramanian	

Subgroup on Graphite Pressure Equipment (BPV VIII)

C. W. Cary, <i>Chair</i>	H. Lee, Jr.
A. Viet, <i>Vice Chair</i>	S. Mehrez
G. C. Becherer	T. Rudy
F. L. Brown	A. A. Stupica
J. D. Clements	J. Wince

Argentina International Working Group (BPV VIII)

A. Dominguez, <i>Chair</i>	M. A. Mendez
R. Robles, <i>Vice Chair</i>	J. J. Monaco
G. Glissent, <i>Secretary</i>	C. Parente
A. Antipasti	M. A. A. Pipponzi
D. A. Bardelli	L. C. Rigoli
R. A. Barey	A. Rivas
O. S. Bretones	D. Rizzo
A. Burgueno	M. A. Sena
G. Casanas	G. Telleria
D. A. Del Teglia	C. Alderetes, <i>Contributing Member</i>
M. Favareto	D. H. Da Rold, <i>Contributing Member</i>
J. A. Labastidas	J. C. Rubeo, <i>Contributing Member</i>
F. P. Larrosa	

China International Working Group (BPV VIII)

X. Chen, <i>Chair</i>	C. Miao
B. Shou, <i>Vice Chair</i>	L. Sun
Z. Fan, <i>Secretary</i>	C. Wu
Y. Chen	J. Xiaobin
J. Cui	F. Xu
R. Duan	G. Xu
J.-G. Gong	F. Yang
B. Han	Y. Yang
J. Hu	Y. Yuan
Q. Hu	Yanfeng Zhang
H. Hui	Yijun Zhang
K. Li	S. Zhao
D. Luo	J. Zheng
Y. Luo	G. Zhu

Germany International Working Group (BPV VIII)

R. Kauer, <i>Chair</i>	S. Krebs
M. Sykora, <i>Vice Chair</i>	T. Ludwig
A. Aloui	R. A. Meyers
P. Chavdarov	H. Michael
M. Delzeit	R. Müller
A. Emrich	S. Reich
C. Jaekel	A. Spangenberg
S. Jetzlsperger	C. Stobbe
D. Koelbl	

India International Working Group (BPV VIII)

D. Chandiramani, <i>Chair</i>	T. Mukherjee
D. Kulkarni, <i>Vice Chair</i>	P. C. Pathak
A. D. Dalal, <i>Secretary</i>	D. Prabhu
P. Arulkumar	A. Sadasivam
P. Gandhi	M. P. Shah
U. Ganesan	Y. Z. Shaikh
S. K. Goyal	R. Tiru
V. Jayabalan	V. T. Valavan
V. K. Joshi	M. Sharma, <i>Contributing Member</i>
A. Kakumanu	

Italy International Working Group (BPV VIII)

M. Millefanti, <i>Chair</i>	A. F. Magri
P. Campli, <i>Secretary</i>	L. Moracchioli
P. Aliprandi	P. Pacor
A. Avogadri	S. Sarti
A. Camanni	A. Teli
M. Camposaragna	N. Wagner
N. Caputo	V. Calo, <i>Contributing Member</i>
M. Colombo	G. Gobbi, <i>Contributing Member</i>
P. Conti	A. Gusmaroli, <i>Contributing Member</i>
D. Cortassa	G. Pontiggia, <i>Contributing Member</i>
A. Fabiano	D. D. Raimander, <i>Contributing Member</i>
F. Finco	
M. Guglielmetti	

COMMITTEE ON WELDING, BRAZING, AND FUSING (BPV IX)

M. J. Pischke, <i>Chair</i>	E. G. Reichelt
P. L. Sturgill, <i>Vice Chair</i>	M. J. Rice
R. Rahaman, <i>Staff Secretary</i>	W. J. Sperko
D. Barborak	J. P. Swezy, Jr.
M. Bernasek	A. D. Wilson
M. A. Boring	L. Costa, <i>Delegate</i>
D. A. Bowers	D. Pojatar, <i>Delegate</i>
N. Carter	D. D. Raimander, <i>Delegate</i>
J. G. Feldstein	A. Roza, <i>Delegate</i>
P. Gilston	M. Consonni, <i>Contributing Member</i>
S. E. Gingrich	R. M. Jessee, <i>Contributing Member</i>
K. L. Hayes	P. L. Van Fosson, <i>Contributing Member</i>
J. S. Lee	R. K. Brown, Jr., <i>Honorary Member</i>
W. M. Lundy	M. L. Carpenter, <i>Honorary Member</i>
D. W. Mann	B. R. Newmark, <i>Honorary Member</i>
S. A. Marks	S. D. Reynolds, Jr., <i>Honorary Member</i>
T. Melfi	
W. F. Newell, Jr.	

Special Working Group on Bolted Flanged Joints (BPV VIII)

W. Brown, <i>Chair</i>	R. W. Mikitka
M. Osterfoss, <i>Vice Chair</i>	D. Nash
D. Bankston, Jr.	M. Ruffin
C. W. Cary	M. Siddiqui
A. Chaudouet	E. Jamalyaria, <i>Contributing Member</i>
H. Chen	G. Van Zyl, <i>Contributing Member</i>
D. Francis	J. Veiga, <i>Contributing Member</i>
H. Lejeune	R. Wacker, <i>Contributing Member</i>
A. Mann	
W. McDaniel	

Subgroup on Brazing (BPV IX)

S. A. Marks, <i>Chair</i>	M. J. Pischke
E. W. Beckman	P. L. Sturgill
A. F. Garbolevsky	J. P. Swezy, Jr.
N. Mohr	

Subgroup on General Requirements (BPV IX)

N. Carter, <i>Chair</i>	K. Meszaros
P. Gilston, <i>Vice Chair</i>	H. B. Porter
S. A. Marks, <i>Secretary</i>	D. Smith
J. P. Bell	P. L. Sturgill
D. A. Bowers	J. P. Swezy, Jr.
T. Bunyarattaphantu	E. W. Woelfel
M. Cox	L. Costa, <i>Delegate</i>
M. Heinrichs	E. W. Beckman, <i>Contributing Member</i>
R. M. Jessee	A. Davis, <i>Contributing Member</i>
P. Matkovics	B. R. Newmark, <i>Honorary Member</i>
W. May	

Subgroup on Interpretations (BPV VIII)

P. Matkovics, <i>Chair</i>	D. T. Peters
J. Oh, <i>Staff Secretary</i>	J. Qu
S. R. Babka	F. L. Richter
L. Bower	S. C. Roberts
T. Bunyarattaphantu	C. D. Rodery
J. Cameron	T. G. Seipp
C. W. Cary	E. Smith
P. Chavdarov	J. C. Sowinski
M. Faulkner	K. Subramanian
T. Halligan	J. P. Swezy, Jr.
B. F. Hantz	A. Viet
J. Hoskinson	K. Xu
M. Kowalczyk	G. Auriolos, Sr., <i>Contributing Member</i>
D. L. Kurlie	R. J. Basile, <i>Contributing Member</i>
K. Kusu	D. A. Swanson, <i>Contributing Member</i>
M. D. Lower	
S. A. Marks	
D. I. Morris	

Subgroup on Materials (BPV IX)

M. Bernasek, <i>Chair</i>	D. D. Raimander
T. Anderson	A. Roza
L. Constantinescu	C. E. Sainz
E. Cutlip	P. L. Sturgill
S. E. Gingrich	C. Zafir
L. S. Harbison	L. Costa, <i>Delegate</i>
M. James	V. G. V. Giunto, <i>Delegate</i>
R. M. Jessee	D. J. Kotecki, <i>Contributing Member</i>
T. Melfi	B. Krueger, <i>Contributing Member</i>
S. D. Nelson	W. J. Sperko, <i>Contributing Member</i>
M. J. Pischke	M. J. Stanko, <i>Contributing Member</i>

Subgroup on Plastic Fusing (BPV IX)

K. L. Hayes, <i>Chair</i>	M. J. Rice
M. Brandes	S. Schuessler
R. M. Jessee	M. Troughton
J. Johnston, Jr.	C. Violand
J. E. O'Sullivan	E. W. Woelfel
E. G. Reichelt	J. Wright

Subgroup on Welding Qualifications (BPV IX)

T. Melfi, <i>Chair</i>	M. J. Rice
A. D. Wilson, <i>Vice Chair</i>	M. B. Sims
K. L. Hayes, <i>Secretary</i>	A. Spangenberg
M. Bernasek	W. J. Sperko
M. A. Boring	P. L. Sturgill
D. A. Bowers	J. P. Swezy, Jr.
R. Campbell	C. Violand
R. B. Corbit	L. Costa, <i>Delegate</i>
L. S. Harbison	D. D. Raimander, <i>Delegate</i>
M. Heinrichs	D. Chandiramani, <i>Contributing Member</i>
J. S. Lee	M. Consonni, <i>Contributing Member</i>
W. M. Lundy	M. Dehghan, <i>Contributing Member</i>
D. W. Mann	T. C. Wiesner, <i>Contributing Member</i>
K. Meszaros	
W. F. Newell, Jr.	
E. G. Reichelt	

Argentina International Working Group (BPV IX)

A. Burgueno, <i>Chair</i>	J. Caprarulo
A. R. G. Frinchaboy, <i>Vice Chair</i>	M. Favareto
R. Rahaman, <i>Staff Secretary</i>	J. A. Gandola
M. D. Kuhn, <i>Secretary</i>	M. A. Mendez
P. J. Cabot	A. E. Pastor

Germany International Working Group (BPV IX)

P. Chavadarov, <i>Chair</i>	P. Müller
R. Rahaman, <i>Staff Secretary</i>	S. Wegener
P. Khwaja, <i>Secretary</i>	J. Daldrup, <i>Contributing Member</i>
B. Daume	E. Floer, <i>Contributing Member</i>
D. Haase	A. Scherpenisse, <i>Contributing Member</i>
S. Krebs	K.-G. Toelle, <i>Contributing Member</i>
T. Ludwig	

Italy International Working Group (BPV IX)

D. D. Raimander, <i>Chair</i>	P. Pacor
F. Ferrarese, <i>Vice Chair</i>	G. Signoretta
R. Rahaman, <i>Staff Secretary</i>	V. Calo, <i>Contributing Member</i>
P. Campli, <i>Secretary</i>	G. Gobbi, <i>Contributing Member</i>
M. Bernasek	A. Gusmaroli, <i>Contributing Member</i>
A. Camanni	G. Pontiggia, <i>Contributing Member</i>
M. Mandina	P. Siboni, <i>Contributing Member</i>
A. S. Monastra	
L. Moracchioli	

Spain International Working Group (BPV IX)

F. J. Q. Pandelo, <i>Chair</i>	B. B. Miguel
F. Manas, <i>Vice Chair</i>	A. D. G. Munoz
R. Rahaman, <i>Staff Secretary</i>	A. B. Pascual
F. R. Hermida, <i>Secretary</i>	G. Gobbi, <i>Contributing Member</i>
C. A. Celimendiz	R. G. Garcia, <i>Contributing Member</i>
M. A. F. Garcia	

COMMITTEE ON FIBER-REINFORCED PLASTIC PRESSURE VESSELS (BPV X)

J. L. Bustillos, <i>Chair</i>	D. H. McCauley
D. Eisberg, <i>Vice Chair</i>	N. L. Newhouse
C. R. Ramcharran, <i>Staff Secretary</i>	G. Ramirez
A. L. Beckwith	J. R. Richter
B. R. Colley	B. F. Shelley
T. W. Cowley	G. A. Van Beek
I. L. Dinovo	S. L. Wagner
J. Eihusen	D. O. Yancey, Jr.
K. L. Gilmore	P. H. Ziehl
M. R. Gorman	D. H. Hodgkinson, <i>Contributing Member</i>
B. Hebb	D. L. Keeler, <i>Contributing Member</i>
L. E. Hunt	
B. Linnemann	

COMMITTEE ON NUCLEAR INSERVICE INSPECTION (BPV XI)

D. W. Lamond, <i>Chair</i>	G. C. Park
S. D. Kulat, <i>Vice Chair</i>	D. A. Scarth
A. T. Roberts III, <i>Vice Chair</i>	F. J. Schaaf, Jr.
D. Miro-Quesada, <i>Staff Secretary</i>	R. W. Swayne
M. L. Benson	S. Takaya
C. T. Brown	A. Udyawar
S. B. Brown	D. Vetter
T. L. Chan	J. G. Weicks
R. C. Cipolla	M. Weis
R. Clow	B. K. Welch
D. R. Cordes	Y.-K. Chung, <i>Delegate</i>
H. Do	C. Ye, <i>Delegate</i>
E. V. Farrell, Jr.	M. Homiack, <i>Alternate</i>
M. J. Ferlisi	C. Latiolais, <i>Alternate</i>
J. Hakii	R. O. McGill, <i>Alternate</i>
M. L. Hall	T. J. Griesbach, <i>Contributing Member</i>
P. J. Hennessey	J. T. Lindberg, <i>Contributing Member</i>
D. O. Henry	T. V. Vo, <i>Contributing Member</i>
R. Hinkle	C. D. Cowfer, <i>Honorary Member</i>
K. Hojo	E. B. Gerlach, <i>Honorary Member</i>
A. E. Keyser	R. E. Gimple, <i>Honorary Member</i>
H. Malikowski	F. E. Gregor, <i>Honorary Member</i>
S. L. McCracken	R. D. Kerr, <i>Honorary Member</i>
L. A. Melder	P. C. Riccardella, <i>Honorary Member</i>
S. A. Norman	R. A. West, <i>Honorary Member</i>
T. Nuoffer	C. J. Wirtz, <i>Honorary Member</i>
J. Nygaard	R. A. Yonekawa, <i>Honorary Member</i>
J. E. O'Sullivan	
N. A. Palm	

Executive Committee (BPV XI)

S. D. Kulat, <i>Chair</i>	N. A. Palm
D. W. Lamond, <i>Vice Chair</i>	G. C. Park
D. Miro-Quesada, <i>Staff Secretary</i>	A. T. Roberts III
M. L. Benson	R. W. Swayne
M. J. Ferlisi	D. Vetter
D. O. Henry	M. Homiack, <i>Alternate</i>
S. L. McCracken	

Latin American International Working Group (BPV XI)

O. Martinez, <i>Staff Secretary</i>	F. J. Schaaf, Jr.
A. Claus	F. M. Schroeter
I. M. Guerreiro	P. Yamamoto
L. R. Miño	

China International Working Group (BPV XI)

T. Yuchun, <i>Chair</i>	W. N. Pei
J. F. Cai, <i>Vice Chair</i>	L. Shiwei
C. Ye, <i>Vice Chair</i>	S. Shuo
M. W. Zhou, <i>Secretary</i>	Y. Sixin
M. Chao	Y. X. Sun
H. D. Chen	Z. Wan
Y. Cheng	Q. Wang
C. Gao	Q. W. Wang
Y. Guanghua	Z. S. Wang
Y. B. Guo	L. Xing
Y. Hongqi	F. Xu
D. R. Horn	S. X. Xu
Y. Hou	Q. Yin
Y. S. Li	Y. Zhe
Shangyuan Liu	Z. M. Zhong
Y. Nie	

Working Group on Spent Nuclear Fuel Storage and Transportation Containment Systems (BPV XI)

K. Hunter, <i>Chair</i>	K. Mauskar
M. Orihuela, <i>Secretary</i>	R. M. Meyer
D. J. Ammerman	R. M. Pace
J. Broussard	M. A. Richter
C. R. Bryan	B. Sarno
T. Carraher	R. Sindelar
D. Dunn	M. Staley
N. Fales	J. Tatman
R. C. Folley	J. Wellwood
A. Gonzalez	K. A. Whitney
G. Grant	X. J. Zhai
B. Gutherman	P.-S. Lam, <i>Alternate</i>
M. W. Joseph	G. White, <i>Alternate</i>
M. Keene	H. Smith, <i>Contributing Member</i>
M. Liu	

European International Working Group (BPV XI)

R. Döring, <i>Chair</i>	H.-W. Lange
M. Hagenbruch, <i>Vice Chair</i>	N. Legl
R. Piel, <i>Secretary</i>	T. Ludwig
P. Ancion	M. Reichert
A. Casse	L. Sybertz
C. G. Frantescu	I. Tewes
T. Hantzka	R. Tiete
E. Iacopetta	Yixing Wang
A. Juengert	J. Wendt
S. D. Kulat	

Task Group on Mitigation and Repair of Spent Nuclear Fuel Canisters (WG-SNFS & TCS) (BPV XI)

J. Tatman, <i>Chair</i>	M. Kris
D. J. Ammerman	M. Liu
J. Broussard	K. Mauskar
C. R. Bryan	S. L. McCracken
G. R. Cannell	M. Orihuela
K. Dietrich	M. Richter
D. Dunn	K. E. Ross
N. Fales	B. Sarno
R. C. Folley	R. Sindelar
D. Jacobs	J. Wellwood
N. Klymyshyn	A. Williams

India International Working Group (BPV XI)

S. B. Parkash, <i>Chair</i>	K. K. Rai
D. Narain, <i>Vice Chair</i>	D. Rawal
Z. M. Mansuri	R. Sahai
M. R. Nadgouda	R. K. Sharma
N. Palm	

Subgroup on Evaluation Standards (BPV XI)

N. A. Palm, <i>Chair</i>	R. O. McGill
S. X. Xu, <i>Secretary</i>	R. M. Pace
M. L. Benson	S. Ranganath
R. C. Cipolla	C. J. Sallaberry
C. M. Faigy	D. A. Scarth
M. M. Farooq	D. J. Shim
T. J. Griesbach	A. Udyawar
K. Hojo	T. V. Vo
M. Kirk	G. M. Wilkowski
D. R. Lee	K. Hasegawa, <i>Contributing Member</i>
Y. S. Li	H. S. Mehta, <i>Contributing Member</i>

Special Working Group on Editing and Review (BPV XI)

R. W. Swayne, <i>Chair</i>	M. Orihuela
R. C. Cipolla	D. A. Scarth
D. O. Henry	A. Udyawar

Task Group on Inspectability (BPV XI)

E. Henry, <i>Chair</i>	J. Honcharik
B. Langston, <i>Secretary</i>	C. Latiolais
D. Brown	J. T. Lindberg
A. Bushmire	L. Loomis
A. Cardillo	S. Matsumoto
K. Caver	D. E. Matthews
D. R. Cordes	P. J. O'Regan
D. O. Henry	J. B. Ossmann

Task Group on Evaluation of Beyond Design Basis Events (SG-ES) (BPV XI)

R. M. Pace, <i>Chair</i>	S. A. Kleinsmith
S. X. Xu, <i>Secretary</i>	M. Moenssens
G. A. Antaki	T. V. Vo
P. R. Donavin	K. Voelsing
R. G. Gilada	G. M. Wilkowski
T. J. Griesbach	F. G. Abatt, <i>Contributing Member</i>
M. Hayashi	H. S. Mehta, <i>Contributing Member</i>
K. Hojo	

**Working Group on Flaw Evaluation
(SG-ES) (BPV XI)**

R. C. Cipolla, <i>Chair</i>	C. Liu
S. X. Xu, <i>Secretary</i>	M. Liu
M. L. Benson	G. A. Miessi
H. D. Chung	S. Noronha
N. G. Cofie	R. K. Qashu
M. A. Erickson	D. A. Scarth
C. M. Faidy	W. L. Server
M. M. Farooq	D. J. Shim
B. R. Ganta	S. Smith
R. G. Gilada	M. Uddin
C. Guzman-Leong	A. Udyawar
K. Hojo	T. V. Vo
F. Iwamatsu	M. Walter
S. Kalyanam	K. Wang
Y. Kim	B. Wasiluk
V. Lacroix	G. M. Wilkowski
D. R. Lee	H. S. Mehta, <i>Contributing Member</i>
Y. S. Li	

**Working Group on Flaw Evaluation Reference Curves
(SG-ES) (BPV XI)**

A. Udyawar, <i>Chair</i>	A. Morley
D. A. Scarth, <i>Secretary</i>	B. Pellereau
M. L. Benson	S. Ranganath
F. W. Brust	D. J. Shim
R. C. Cipolla	S. Smith
M. M. Farooq	M. Uddin
A. E. Freed	T. V. Vo
K. Hasegawa	G. White
K. Hojo	S. X. Xu
F. Iwamatsu	H. S. Mehta, <i>Contributing Member</i>
V. Lacroix	

**Working Group on High Temperature Flaw Evaluation
(SG-ES) (BPV XI)**

C. J. Sallaberry, <i>Chair</i>	M. Petkov
F. W. Brust	H. Qian
P. Carter	D. A. Scarth
K. Gresh	D. J. Shim
S. Kalyanam	A. Udyawar
B. Lin	X. Wei
B.-L. Lyow	S. X. Xu
M. C. Messner	J. Bass, <i>Alternate</i>

Working Group on Operating Plant Criteria (SG-ES) (BPV XI)

M. Kirk, <i>Chair</i>	R. M. Pace
D. Rudland, <i>Secretary</i>	N. A. Palm
D. B. Denis	S. Ranganath
M. A. Erickson	W. L. Server
A. E. Freed	C. A. Tomes
T. J. Griesbach	A. Udyawar
B. Hall	T. V. Vo
M. Hayashi	H. Q. Xu
R. Janowiak	M. Yamamoto
S. A. Kleinsmith	E. Haywood, <i>Alternate</i>
H. Kobayashi	H. S. Mehta, <i>Contributing Member</i>
A. D. Odell	

Task Group on Appendix L (WG-OPC) (SG-ES) (BPV XI)

N. Glunt, <i>Chair</i>	A. D. Odell
R. M. Pace, <i>Secretary</i>	C.-S. Oh
C. Coleman	H. Park
J. I. Duo	S. Ranganath
A. E. Freed	A. Scott
M. A. Gray	D. J. Shim
T. J. Griesbach	S. Smith
H. Nam	A. Udyawar
A. Nana	T. V. Vo

Working Group on Pipe Flaw Evaluation (SG-ES) (BPV XI)

D. A. Scarth, <i>Chair</i>	Y. S. Li
S. Kalyanam, <i>Secretary</i>	R. O. McGill
K. Azuma	G. A. Miessi
F. W. Brust	S. M. Parker
H. D. Chung	S. H. Pellet
R. C. Cipolla	D. Rudland
N. G. Cofie	C. J. Sallaberry
C. M. Faidy	W. L. Server
M. M. Farooq	D. J. Shim
B. R. Ganta	S. Smith
R. G. Gilada	M. F. Uddin
S. R. Gosselin	A. Udyawar
C. E. Guzman-Leong	T. V. Vo
K. Hasegawa	K. Wang
K. Hojo	B. Wasiluk
D. N. Hopkins	G. M. Wilkowski
E. J. Houston	S. X. Xu
F. Iwamatsu	Y. Zou
R. Janowiak	K. Gresh, <i>Alternate</i>
Y. Kim	H. S. Mehta, <i>Contributing Member</i>
V. Lacroix	

Task Group on Code Case N-513 (WG-PFE) (SG-ES) (BPV XI)

R. O. McGill, <i>Chair</i>	R. Janowiak
S. M. Parker, <i>Secretary</i>	M. Kassar
G. A. Antaki	S. H. Pellet
R. C. Cipolla	D. Rudland
M. M. Farooq	D. A. Scarth
K. Gresh	S. X. Xu
E. J. Houston	

**Task Group on Evaluation Procedures for Degraded Buried Pipe
(WG-PFE) (SG-ES) (BPV XI)**

R. O. McGill, <i>Chair</i>	M. Kassar
S. X. Xu, <i>Secretary</i>	M. Moenssens
F. G. Abatt	R. M. Pace
G. A. Antaki	S. H. Pellet
R. C. Cipolla	D. Rudland
R. G. Gilada	D. A. Scarth
R. Janowiak	

**Task Group on Flaw Evaluation for HDPE Pipe
(WG-PFE) (SG-ES) (BPV XI)**

S. Kalyanam, <i>Chair</i>	D. J. Shim
P. Krishnaswamy	M. Troughton
C. Liu	R. Wolfe
M. Moenssens	J. Wright
D. P. Munson	S. X. Xu
D. A. Scarth	

Subgroup on Nondestructive Examination (BPV XI)

D. O. Henry, <i>Chair</i>	J. Harrison
T. Cinson, <i>Secretary</i>	D. A. Kull
C. T. Brown	C. Latiolais
A. Bushmire	J. T. Lindberg
T. L. Chan	F. J. Schaaf, Jr.
D. R. Cordes	D. R. Slivon
S. E. Cumblidge	R. V. Swain
K. J. Hacker	C. A. Nove, <i>Alternate</i>

Task Group on Nonmetallic Component Degradation and Failure Monitoring (SG-RIM) (BPV XI)

M. P. Metcalfe, <i>Chair</i>	N. Craft
A. Tzelepi, <i>Secretary</i>	W. J. Geringer
M. T. Audrain	K. Harris
S. Baylis	P.-A. Juan
G. Beirnaert	J. Lang
A. A. Campbell	C. Marks
C. Chen	J. Potgieter

Working Group on Personnel Qualification and Surface Visual and Eddy Current Examination (SG-NDE) (BPV XI)

C. T. Brown, <i>Chair</i>	D. O. Henry
M. Orihuela, <i>Secretary</i>	B. Langston
D. Brown	C. Shinsky
T. Cinson	R. Tedder
S. E. Cumblidge	T. Thulien
N. Farenbaugh	J. T. Timm
J. Harrison	

ASME/JSME Joint Working Group on RIM Processes and System-Based Code (SG-RIM) (BPV XI)

S. Takaya, <i>Chair</i>	R. Meyer
C. Wax, <i>Vice Chair</i>	T. Muraki
M. T. Audrain	S. Okajima
K. Dozaki	A. T. Roberts III
J. T. Fong	C. J. Sallaberry
J. Hakii	F. J. Schaaf, Jr.
K. Harris	R. Vayda
M. Hayashi	D. Watanabe
S. Kalyanam	H. Yada
D. R. Lee	K. Yamada
H. Machida	T. Asayama, <i>Contributing Member</i>
M. Mallet	T. Lupold, <i>Contributing Member</i>
R. J. McReynolds	

Working Group on Procedure Qualification and Volumetric Examination (SG-NDE) (BPV XI)

J. Harrison, <i>Chair</i>	C. Latiolais
D. A. Kull, <i>Secretary</i>	C. A. Nove
A. Bushmire	D. R. Slivon
D. R. Cordes	R. V. Swain
K. J. Hacker	D. Van Allen
R. E. Jacob	J. Williams
W. A. Jensen	B. Lin, <i>Alternate</i>

Subgroup on Repair/Replacement Activities (BPV XI)

S. L. McCracken, <i>Chair</i>	L. A. Melder
E. V. Farrell, Jr., <i>Secretary</i>	G. T. Olson
M. Brandes	J. E. O'Sullivan
S. B. Brown	G. C. Park
R. Clow	A. Patel
S. J. Findlan	R. A. Patel
M. L. Hall	R. R. Stevenson
R. Hinkle	R. W. Swayne
J. Honcharik	J. G. Weicks
A. B. Meichler	

Subgroup on Reliability and Integrity Management Program (BPV XI)

A. T. Roberts III, <i>Chair</i>	M. P. Metcalfe
D. Vetter, <i>Secretary</i>	R. Meyer
T. Anselmi	M. Orihuela
M. T. Audrain	C. J. Sallaberry
N. Broom	F. J. Schaaf, Jr.
F. W. Brust	H. M. Stephens, Jr.
S. R. Doctor	R. W. Swayne
J. D. Fletcher	S. Takaya
J. T. Fong	C. Wax
K. Harris	B. K. Welch
P. J. Hennessey	R. W. Youngblood
S. Kalyanam	B. Lin, <i>Alternate</i>
D. R. Lee	V. Chugh, <i>Contributing Member</i>
C. Mallet	R. Grantom, <i>Contributing Member</i>
R. J. McReynolds	T. Lupold, <i>Contributing Member</i>

Working Group on Design and Programs (SG-RRR) (BPV XI)

S. B. Brown, <i>Chair</i>	A. B. Meichler
R. A. Patel, <i>Secretary</i>	G. C. Park
O. Bhatt	M. A. Pyne
R. Clow	A. Reza
R. R. Croft	R. R. Stevenson
E. V. Farrell, Jr.	K. Sullivan
K. Harris	R. W. Swayne
H. Malikowski	

Working Group on MANDE (SG-RIM) (BPV XI)

H. M. Stephens, Jr., <i>Chair</i>	J. T. Fong
M. Orihuela, <i>Vice Chair</i>	D. O. Henry
M. Turnbow, <i>Secretary</i>	R. J. McReynolds
T. Anselmi	R. Meyer
M. T. Audrain	K. Yamada
S. R. Doctor	T. Lupold, <i>Contributing Member</i>
N. A. Finney	

Task Group on Repair and Replacement Optimization (WG-D&P) (SG-RRR) (BPV XI)

S. L. McCracken, <i>Chair</i>	M. L. Hall
S. J. Findlan, <i>Secretary</i>	D. Jacobs
T. Basso	H. Malikowski
R. Clow	G. C. Park
K. Dietrich	A. Patel
E. V. Farrell, Jr.	R. R. Stevenson
M. J. Ferlisi	J. G. Weicks
R. C. Folley	

**Working Group on Nonmetals Repair/Replacement Activities
(SG-RRR) (BPV XI)**

J. E. O'Sullivan, <i>Chair</i>	A. Rezaei
S. Schuessler, <i>Secretary</i>	S. Rios
M. Brandes	F. J. Schaaf, Jr.
S. W. Choi	R. Stakenborghs
M. Golliet	P. Vibien
J. Johnston, Jr.	M. P. Marohl, <i>Contributing Member</i>
T. M. Musto	A. Pridmore, <i>Contributing Member</i>

**Task Group on Repair by Carbon Fiber Composites
(WG-NMRRR) (SG-RRR) (BPV XI)**

S. W. Choi, <i>Chair</i>	R. P. Ojdrovic
W. Bushika	J. E. O'Sullivan
D. Cimock	N. Otten
M. J. Constable	A. Pridmore
M. Elen	S. Rios
M. Golliet	J. Sealey
P. Krishnaswamy	R. Stakenborghs
M. Kuntz	D. J. Swaim
H. Lu	M. Tatkowski
L. Nadeau	M. F. Uddin
C. A. Nove	J. Wen

**Working Group on Welding and Special Repair Processes
(SG-RRR) (BPV XI)**

J. G. Weicks, <i>Chair</i>	D. Jacobs
G. T. Olson, <i>Secretary</i>	M. Kris
D. Barborak	S. E. Marlette
K. Dietrich	S. L. McCracken
S. J. Findlan	L. A. Melder
R. C. Folley	J. E. O'Sullivan
M. L. Hall	A. Patel
J. Honcharik	

**Task Group on Temper Bead Welding
(WG-W&SRP) (SG-RRR) (BPV XI)**

S. J. Findlan, <i>Chair</i>	H. Kobayashi
J. Tatman, <i>Secretary</i>	S. L. McCracken
D. Barborak	N. Mohr
D. Barton	G. T. Olson
R. C. Folley	J. E. O'Sullivan
J. Graham	A. Patel
M. L. Hall	J. G. Weicks
D. Jacobs	

Task Group on Weld Overlay (WG-W&SRP) (SG-RRR) (BPV XI)

S. L. McCracken, <i>Chair</i>	S. E. Marlette
S. Hunter, <i>Secretary</i>	S. K. Min
D. Barborak	G. T. Olson
D. Barton	A. Patel
S. J. Findlan	D. W. Sandusky
J. Graham	J. Tatman
M. L. Hall	J. G. Weicks
D. Jacobs	

Subgroup on Water-Cooled Systems (BPV XI)

M. J. Ferlisi, <i>Chair</i>	D. W. Lamond
J. Nygaard, <i>Secretary</i>	T. Nomura
S. T. Chesworth	S. A. Norman
J. Collins	M. A. Pyne
H. Q. Do	H. M. Stephens, Jr.
K. W. Hall	M. Weis
P. J. Hennessey	B. K. Welch
A. Keller	I. A. Anchondo-Lopez, <i>Alternate</i>
A. E. Keyser	Y.-K. Chung, <i>Contributing Member</i>
S. D. Kulat	

Task Group on High Strength Nickel Alloys Issues (SG-WCS) (BPV XI)

H. Malikowski, <i>Chair</i>	H. Kobayashi
C. Waskey, <i>Secretary</i>	S. E. Marlette
T. Cinson	J. Robinson
J. Collins	D. Van Allen
O. Cruz	G. White
K. Dietrich	K. A. Whitney

Working Group on Containment (SG-WCS) (BPV XI)

M. J. Ferlisi, <i>Chair</i>	M. Sircar
S. Walden, <i>Secretary</i>	P. C. Smith
H. T. Hill	R. S. Spencer
S. Johnson	A. Staller
A. E. Keyser	J. Swan
P. Leininger	C. Tillotson
J. A. Munshi	G. Z. Wang
S. Richter	M. Weis

**Working Group on Inspection of Systems and Components
(SG-WCS) (BPV XI)**

H. Q. Do, <i>Chair</i>	A. Keller
M. Weis, <i>Secretary</i>	E. E. Keyser
R. W. Blyde	S. D. Kulat
J. Collins	E. Lantz
M. J. Ferlisi	J. C. Nygaard
M. L. Garcia Heras	S. Orita
K. W. Hall	R. S. Spencer
E. Henry	M. Walter
J. Howard	A. W. Wilkens

Working Group on Pressure Testing (SG-WCS) (BPV XI)

S. A. Norman, <i>Chair</i>	S. Levitus
M. Moenssens, <i>Secretary</i>	R. A. Nettles
T. Anselmi	J. Swan
A. Knighton	K. Whitney
D. W. Lamond	

Working Group on Risk-Informed Activities (SG-WCS) (BPV XI)

M. A. Pyne, <i>Chair</i>	J. T. Jewell
S. T. Chesworth, <i>Secretary</i>	S. D. Kulat
G. Brouette	D. W. Lamond
R. Fougousse	E. Lantz
J. Hakii	P. J. O'Regan
K. W. Hall	N. A. Palm
M. J. Homiack	S. E. Woolf

Working Group on General Requirements (BPV XI)

D. Vetter, <i>Chair</i>	A. Mills
S. E. Woolf, <i>Secretary</i>	G. Ramaraj
T. L. Chan	T. N. Rezk
P. J. Hennessey	A. T. Roberts III
R. Hinkle	B. K. Welch
K. A. Kavanagh	B. Harris, <i>Alternate</i>

Subgroup on Nonmandatory Appendices (BPV XII)

T. A. Rogers, <i>Chair</i>	T. J. Rishel
S. Staniszewski, <i>Secretary</i>	R. C. Sallash
P. Chilukuri	D. G. Shelton
N. J. Paulick	Y. Doron, <i>Contributing Member</i>
M. Pitts	

COMMITTEE ON TRANSPORT TANKS (BPV XII)

N. J. Paulick, <i>Chair</i>	J. Roberts
M. D. Rana, <i>Vice Chair</i>	T. A. Rogers
J. Oh, <i>Staff Secretary</i>	R. C. Sallash
A. N. Antoniou	M. Shah
K. W. A. Cheng	S. Staniszewski
P. Chilukuri	A. P. Varghese
O. Mulet	R. Meyers, <i>Contributing Member</i>
M. Pitts	

Executive Committee (BPV XII)

M. D. Rana, <i>Chair</i>	M. Pitts
N. J. Paulick, <i>Vice Chair</i>	T. A. Rogers
J. Oh, <i>Staff Secretary</i>	S. Staniszewski
P. Chilukuri	

Subgroup on Design and Materials (BPV XII)

P. Chilukuri, <i>Chair</i>	A. P. Varghese
K. W. A. Cheng	K. Xu
S. L. McWilliams	D. K. Chandiramani, <i>Contributing Member</i>
N. J. Paulick	Y. Doron, <i>Contributing Member</i>
M. D. Rana	M. Pitts, <i>Contributing Member</i>
T. J. Rishel	D. G. Shelton, <i>Contributing Member</i>
T. A. Rogers	B. E. Spencer, <i>Contributing Member</i>
R. C. Sallash	J. Zheng, <i>Contributing Member</i>
M. Shah	
S. Staniszewski	

Subgroup on Fabrication, Inspection, and Continued Service (BPV XII)

M. Pitts, <i>Chair</i>	J. Roberts
P. Chilukuri, <i>Secretary</i>	R. C. Sallash
K. W. A. Cheng	S. Staniszewski
Y. Doron	K. Mansker, <i>Contributing Member</i>
M. Koprivnak	G. McRae, <i>Contributing Member</i>
O. Mulet	T. A. Rogers, <i>Contributing Member</i>
T. J. Rishel	

Subgroup on General Requirements (BPV XII)

S. Staniszewski, <i>Chair</i>	T. J. Rishel
A. N. Antoniou	R. C. Sallash
P. Chilukuri	Y. Doron, <i>Contributing Member</i>
J. L. Freiler	S. L. McWilliams, <i>Contributing Member</i>
O. Mulet	T. A. Rogers, <i>Contributing Member</i>
B. F. Pittel	D. G. Shelton, <i>Contributing Member</i>
M. Pitts	

COMMITTEE ON OVERPRESSURE PROTECTION (BPV XIII)

B. K. Nutter, <i>Chair</i>	J. F. Ball, <i>Contributing Member</i>
A. Donaldson, <i>Vice Chair</i>	R. W. Barnes, <i>Contributing Member</i>
C. E. Rodrigues, <i>Staff Secretary</i>	R. D. Danzy, <i>Contributing Member</i>
R. Antoniuk	J. Grace, <i>Contributing Member</i>
T. P. Beirne	S. F. Harrison, Jr., <i>Contributing Member</i>
Joey Burgess	A. Hassan, <i>Contributing Member</i>
D. B. DeMichael	P. K. Lam, <i>Contributing Member</i>
J. W. Dickson	M. Mengon, <i>Contributing Member</i>
B. Engman	J. Mize, <i>Contributing Member</i>
K. R. May	M. Mullavey, <i>Contributing Member</i>
D. Miller	J. Phillips, <i>Contributing Member</i>
T. Patel	S. Ruesenberg, <i>Contributing Member</i>
B. F. Pittel	K. Shores, <i>Contributing Member</i>
T. R. Tarbay	D. E. Tezzo, <i>Contributing Member</i>
D. E. Tompkins	A. Wilson, <i>Contributing Member</i>
J. A. West	
M. Edwards, <i>Alternate</i>	

Executive Committee (BPV XIII)

A. Donaldson, <i>Chair</i>	K. R. May
B. K. Nutter, <i>Vice Chair</i>	T. Patel
C. E. Rodrigues, <i>Staff Secretary</i>	B. F. Pittel
T. Beirne	

Subgroup on Design and Materials (BPV XIII)

T. Patel, <i>Chair</i>	D. Miller
V. Kalyanasundaram, <i>Vice Chair</i>	T. R. Tarbay
A. Williams, <i>Secretary</i>	J. A. West
T. K. Acharya	D. J. Azukas, <i>Contributing Member</i>
W. E. Chapin	R. D. Danzy, <i>Contributing Member</i>
B. Joergensen	M. Mullavey, <i>Contributing Member</i>
R. Krithivasan	G. Ramirez, <i>Contributing Member</i>
J. Latshaw	S. Zalar, <i>Contributing Member</i>

Subgroup on General Requirements (BPV XIII)

B. F. Pittel, <i>Chair</i>	D. E. Tezzo
J. Grace, <i>Secretary</i>	D. E. Tompkins
R. Antoniuk	J. F. White
J. F. Ball	M. Edwards, <i>Alternate</i>
Joey Burgess	P. Chavdarov, <i>Contributing Member</i>
John Burgess	J. L. Freiler, <i>Contributing Member</i>
D. B. DeMichael	G. D. Goodson, <i>Contributing Member</i>
A. Donaldson	B. Joergensen, <i>Contributing Member</i>
S. T. French	P. K. Lam, <i>Contributing Member</i>
J. Horne	E. Pearson, <i>Contributing Member</i>
R. Klimas, Jr.	J. Phillips, <i>Contributing Member</i>
Z. E. Kumana	S. Ruesenberg, <i>Contributing Member</i>
D. Mainiero-Cessna	S. Zalar, <i>Contributing Member</i>
K. R. May	
J. Mize	
L. Moedinger	
M. Mullavey	
A. Peck	

Subgroup on Nuclear (BPV XIII)

K. R. May, <i>Chair</i>	S. Jones
J. F. Ball, <i>Vice Chair</i>	D. Miller
R. Krithivasan, <i>Secretary</i>	T. Patel
M. Brown	B. J. Yonsky
J. W. Dickson	J. Yu, <i>Alternate</i>
N. Hansing	S. T. French, <i>Contributing Member</i>

Subgroup on Testing (BPV XIII)

T. P. Beirne, <i>Chair</i>	R. Lack, <i>Alternate</i>
J. W. Dickson, <i>Vice Chair</i>	M. Brown, <i>Contributing Member</i>
C. Hofmeister, <i>Secretary</i>	J. Mize, <i>Contributing Member</i>
V. Chicola III	M. Mullavey, <i>Contributing Member</i>
B. Engman	S. Ruesenberg, <i>Contributing Member</i>
R. J. Garnett	C. Sharpe, <i>Contributing Member</i>
R. Houk	K. Shores, <i>Contributing Member</i>
N. Jump	A. Strecker, <i>Contributing Member</i>
B. K. Nutter	A. Wilson, <i>Contributing Member</i>
J. R. Thomas, Jr.	
C. Bauer, <i>Alternate</i>	

COMMITTEE ON NUCLEAR CERTIFICATION (CNC)

R. R. Stevenson, <i>Chair</i>	T. N. Rezk
M. A. Lockwood, <i>Vice Chair</i>	E. A. Whittle
H. Ruan, <i>Secretary</i>	T. Aldo, <i>Alternate</i>
S. Andrews	M. Blankinship, <i>Alternate</i>
A. Appleton	G. Brouette, <i>Alternate</i>
G. Claffey	Y. Diaz-Castillo, <i>Alternate</i>
N. DeSantis	P. D. Edwards, <i>Alternate</i>
C. Dinic	R. Hinkle, <i>Alternate</i>
G. Gobbi	K. M. Hottle, <i>Alternate</i>
J. Grimm	J. Kiefer, <i>Alternate</i>
J. W. Highlands	S. J. Montano, <i>Alternate</i>
K. A. Kavanagh	R. Spuhl, <i>Alternate</i>
J. C. Krane	M. Wilson, <i>Alternate</i>
B. McGlone	S. Yang, <i>Alternate</i>
I. Olson	M. Burke, <i>Contributing Member</i>
E. L. Pleins	S. F. Harrison, Jr., <i>Contributing Member</i>
L. Ponce	
T. E. Quaka	

COMMITTEE ON BOILER AND PRESSURE VESSEL CONFORMITY ASSESSMENT (CBPVCA)

L. E. McDonald, <i>Chair</i>	P. Williams
E. Whittle, <i>Vice Chair</i>	T. P. Beirne, <i>Alternate</i>
G. Moino, <i>Staff Secretary</i>	N. Caputo, <i>Alternate</i>
P. Chavdarov	J. M. Downs, <i>Alternate</i>
J. P. Chicoine	Y.-S. Kim, <i>Alternate</i>
A. Donaldson	B. L. Krasium, <i>Alternate</i>
T. E. Hansen	K. Roewe, <i>Alternate</i>
W. Hibdon	B. C. Turczynski, <i>Alternate</i>
M. Prefumo	R. Underwood, <i>Alternate</i>
R. Rockwood	J. Yu, <i>Alternate</i>
G. Scribner	D. Cheetham, <i>Contributing Member</i>
D. E. Tuttle	A. J. Spencer, <i>Honorary Member</i>
R. V. Wielgoszinski	

CORRESPONDENCE WITH THE COMMITTEE

General

ASME codes and standards are developed and maintained by committees with the intent to represent the consensus of concerned interests. Users of ASME codes and standards may correspond with the committees to propose revisions or cases, report errata, or request interpretations. Correspondence for this Section of the ASME Boiler and Pressure Vessel Code (BPVC) should be sent to the staff secretary noted on the Section's committee web page, accessible at <https://go.asme.org/CSCcommittees>.

NOTE: See ASME BPVC Section II, Part D for guidelines on requesting approval of new materials. See Section II, Part C for guidelines on requesting approval of new welding and brazing materials ("consumables").

Revisions and Errata

The committee processes revisions to this Code on a continuous basis to incorporate changes that appear necessary or desirable as demonstrated by the experience gained from the application of the Code. Approved revisions will be published in the next edition of the Code.

In addition, the committee may post errata and Special Notices at <http://go.asme.org/BPVCerrata>. Errata and Special Notices become effective on the date posted. Users can register on the committee web page to receive email notifications of posted errata and Special Notices.

This Code is always open for comment, and the committee welcomes proposals for revisions. Such proposals should be as specific as possible, citing the paragraph number, the proposed wording, and a detailed description of the reasons for the proposal, including any pertinent background information and supporting documentation.

Cases

(a) The most common applications for cases are

(1) to permit early implementation of a revision based on an urgent need

(2) to provide alternative requirements

(3) to allow users to gain experience with alternative or potential additional requirements prior to incorporation directly into the Code

(4) to permit use of a new material or process

(b) Users are cautioned that not all jurisdictions or owners automatically accept cases. Cases are not to be considered as approving, recommending, certifying, or endorsing any proprietary or specific design, or as limiting in any way the freedom of manufacturers, constructors, or owners to choose any method of design or any form of construction that conforms to the Code.

(c) The committee will consider proposed cases concerning the following topics only:

(1) equipment to be marked with the ASME Single Certification Mark, or

(2) equipment to be constructed as a repair/replacement activity under the requirements of Section XI

(d) A proposed case shall be written as a question and reply in the same format as existing cases. The proposal shall also include the following information:

(1) a statement of need and background information

(2) the urgency of the case (e.g., the case concerns a project that is underway or imminent)

(3) the Code Section and the paragraph, figure, or table number to which the proposed case applies

(4) the editions of the Code to which the proposed case applies

(e) A case is effective for use when the public review process has been completed and it is approved by the cognizant supervisory board. Cases that have been approved will appear in the next edition or supplement of the Code Cases books, "Boilers and Pressure Vessels" or "Nuclear Components." Each Code Cases book is updated with seven Supplements. Supplements will be sent or made available automatically to the purchasers of the Code Cases books until the next edition of the Code. Annulments of Code Cases become effective six months after the first announcement of the annulment in a Code Case Supplement or Edition of the appropriate Code Case book. The status of any case is available at <http://go.asme.org/BPVCCDatabase>. An index of the complete list of Boiler and Pressure Vessel Code Cases and Nuclear Code Cases is available at <http://go.asme.org/BPVCC>.