

aspects not covered by Section I to the manufacturer. Traditionally, the manufacturer has recognized this and borne the responsibility for such things as functional performance of the boiler, thermal expansion and support of the boiler and its associated piping, and the effects of thermal stress, wind loading, and seismic loading on the boiler. Further evidence of the flexibility and reasonableness of Section I—and another key to its success as a living document—is found in the second paragraph of the preamble:

The Code does not contain rules to cover all details of design and construction. Where complete details are not given, it is intended that the manufacturer, subject to the acceptance of the Authorized Inspector, shall provide details of design and construction which will be as safe as otherwise provided by the rules in the Code.

This important paragraph, along with similar wording in PG-16.1, has provided a way to accept new or special designs for which no rules are provided by allowing the designer to prove to the satisfaction of an Authorized Inspector (AI); (see definition in Section 1.7.9, *Third-Party Inspection*) that the safety of the new design is equivalent to that of traditional designs. If necessary, the AI can seek the assistance of the organization by which he or she is employed, a so-called Authorized Inspection Agency, in determining the acceptability of new designs.

According to one of the definitions cited above, a code is a body of laws arranged systematically for easy reference. Although this may be true of Section I, it is not at first easy to use or understand, as it is a collection of rules that have been revised and expanded over the years with very little accompanying explanation. These rules mandate the fundamental construction features considered necessary for a safe boiler (one that is a safe pressure container), but typically do not provide any advice on how to design a boiler from the standpoint of what size or arrangement of components should be used. There are no provisions, for example, dealing with the thermal performance and efficiency of the boiler or how much steam it will produce (other than for some approximate guidelines for judging the adequacy of the safety-valve discharge capacity). It is assumed that the boiler manufacturer or designer already has this knowledge, presumably from experience or available technical literature. Many rules seem, and indeed are, arbitrary; but as explained before, they were originally written to incorporate what was considered good practice in the industry.

Code construction under the rules of Section I takes place as follows: The ASME accredits a manufacturer (i.e., after appropriate review and acceptance of the manufacturer's quality control system, the ASME authorizes the manufacturer to engage in code construction). The manufacturer then constructs, documents, certifies, and stamps the boiler in compliance with the rules of Section I. The manufacturer's activities are monitored and inspected by a third party (the AI). The boiler is then acceptable to jurisdictions with laws stipulating ASME construction of boilers. Section VIII [10] construction (of pressure vessels) and Section IV [11] construction (of heating boilers) is carried out in similar fashion.

1.3 THE ORGANIZATION OF SECTION I

The original edition of Section I was not well organized. Over the years the contents changed as portions were moved into other sections of the code and more and more provisions were added. In 1963, following a precedent set by the Committee with

Section VIII, the Committee completely reorganized Section I into its present, improved arrangement of parts, in which each part covers a major topic or particular type of boiler or other Section I device. That reorganization was merely a reshuffling of the existing requirements, with no technical changes from the previous version. Here is the arrangement based on the 2013 Edition:

- Foreword
- Statements of Policy on the Use of the Certification Mark and Code Authorization in Advertising
- Statement of Policy on the Use of ASME Marking to Identify Manufactured Items
- Submittal of Technical Inquiries to the Boiler and Pressure Vessel Standards Committee
- Personnel
- Preamble
- Summary of Changes
- Part PG, General Requirements for All Methods of Construction
- Part PW, Requirements for Boilers Fabricated by Welding
- Part PR, Requirements for Boilers Fabricated by Riveting
- Part PB, Requirements for Boilers Fabricated by Brazeing
- Part PL, Requirements for Locomotive Boilers
- Part PWT, Requirements for Watertube Boilers
- Part PFT, Requirements for Firetube Boilers
- Part PFI, Optional Requirements for Feedwater Heater (When Located within Scope of Section I Rules)
- Part PMB, Requirements for Miniature Boilers
- Part PEB, Requirements for Electric Boilers
- Part PVG, Requirements for Organic Fluid Vaporizers
- Part PFE, Requirements for Feedwater Economizers
- Part PHRSG Requirements for Heat Recovery Steam Generators
- Mandatory Appendix II, Standard Units for use in Equations
- Mandatory Appendix III, Criteria for Reapplication of a Certification Mark
- Mandatory Appendix IV, Local Thin Areas in Cylindrical Shells and in Spherical Segments of Heads
- Mandatory Appendix V, Additional Rules for Boilers Fabricated by Riveting
- Mandatory Appendix VI, Establishing Governing Code Editions, Addenda, and Cases for Boilers and Replacement Parts
- Nonmandatory Appendix A, Explanation of the Code Containing Matter Not Mandatory Unless Specifically Referred to in the Rules of the Code
- Nonmandatory Appendix B, Positive Material Identification Practice
- Endnotes
- Index

The user will notice that Section I skips from Part PHRSG to Mandatory Appendix II, with no Mandatory Appendix I. Prior to the 2013 Edition, Section I included Mandatory Appendix I, Submittal of Technical Inquiries to the Boiler and Pressure Vessel Committee. Starting with the 2013 Edition, the content from that appendix is now located in the front of Section I before the listing of committee personnel as shown above.

The front of the volume contains the Foreword and Preamble, which provide a fundamental description of Section I and its application. First time users of Section I often skip the Foreword and the Preamble and proceed directly to the body of the book. This is a mistake because this introductory material contains a

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G Thomas



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