§ 54.01–1

54.05–15 Weldment toughness tests—procedure qualifications.
54.05–16 Production toughness testing.
54.05–17 Weld toughness test acceptance criteria.
54.05–20 Impact test properties for service of 0 °F. and below.
54.05–25 [Reserved]
54.05–30 Allowable stress values at low temperatures.

Subpart 54.10—Inspection, Reports, and Stamping

54.10–1 Scope (modifies UG–90 through UG–103 and UG–115 through UG–120).
54.10–5 Maximum allowable working pressure (reproduces UG–98).
54.10–10 Standard hydrostatic test (modifies UG–99).
54.10–15 Pneumatic test (modifies UG–100).
54.10–20 Marking and stamping.
54.10–25 Manufacturers' data report forms (modifies UG–120).

Subpart 54.15—Pressure-Relief Devices

54.15–1 General (modifies UG–125 through UG–137).
54.15–3 Definitions (modifies appendix 3).
54.15–5 Protective devices (modifies UG–125).
54.15–10 Safety and relief valves (modifies UG–126).
54.15–13 Rupture disks (modifies UG–127).
54.15–15 Relief devices for unfired steam boilers, evaporators, and heat exchangers (modifies UG–126).
54.15–20 Minimum relief capacities for cargo tanks containing compressed or liquefied gas.

Subpart 54.20—Fabrication by Welding

54.20–1 Scope (modifies UW–1 through UW–65).
54.20–2 Fabrication for hazardous materials (replaces UW–2a).
54.20–3 Design (modifies UW–9, UW–11(a), UW–13, and UW–16).
54.20–5 Welding qualification tests and production testing (modifies UW–26, UW–28, UW–29, UW–47, and UW–48).

Subpart 54.23—Fabrication by Brazing

54.23–1 Scope (modifies UB–1).

Subpart 54.25—Construction With Carbon, Alloy, and Heat Treated Steels

54.25–1 Scope.
54.25–3 Steel plates (modifies UCS–6).
54.25–5 Corrosion allowance (modifies UCS–25).

54.25–7 Requirements for postweld heat treatment (modifies UCS–56).
54.25–10 Low temperature operation—ferritic steels (replaces UCS–65 through UCS–67).
54.25–15 Low temperature operation—high alloy steels (modifies UHA–23(b) and UHA–51).
54.25–20 Low temperature operation—ferritic steels with properties enhanced by heat treatment (modifies UHT–5(c), UHT–6, UHT–23, and UHT–82).
54.25–25 Welding of quenched and tempered steels (modifies UHT–82).

Subpart 54.30—Mechanical Stress Relief

54.30–1 Scope.
54.30–3 Introduction.
54.30–5 Limitations and requirements.
54.30–10 Method of performing mechanical stress relief.
54.30–15 Requirement for analysis and computation.


Source: CGFR 68–82, 33 FR 18828, Dec. 18, 1968, unless otherwise noted.

Subpart 54.01—General Requirements

§ 54.01–1 Incorporation by reference.

(a) Certain material is incorporated by reference into this part with the approval of the Director of the Federal Register under 5 U.S.C. 552(a) and 1 CFR part 51. To enforce any edition other than that specified in this section, the Coast Guard must publish notice of change in the FEDERAL REGISTER and the material must be available to the public. All approved material is available for inspection at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202–741–6030 or go to http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html. The material is also available for inspection at the Coast Guard Headquarters, Contact Commandant (CG–ENG), Attn: Office of Design and Engineering Systems, U.S. Coast Guard Stop 7500, 2703 Martin Luther King Jr. Avenue SE., Washington,
§ 54.01–2 Adoption of division 1 of section VIII of the ASME Boiler and Pressure Vessel Code.

(a) Pressure vessels shall be designed, constructed, and inspected in accordance with section VIII of the ASME Boiler and Pressure Vessel Code (incorporated by reference, see 46 CFR 54.01–1), as limited, modified, or replaced by specific requirements in this part. The provisions in the appendices to section VIII of the ASME Boiler and Pressure Vessel Code are adopted and shall be followed when the requirements in section VIII make them mandatory. For general information, table 54.01–2(a) lists the various paragraphs in section VIII of the ASME Boiler and Pressure Vessel Code that are limited, modified, or replaced by regulations in this part.

Table 54.01–2(a)—Limitations and Modifications in the Adoption of Section VIII of the ASME Boiler and Pressure Vessel Code

<table>
<thead>
<tr>
<th>Paragraphs in section VIII of the ASME Boiler and Pressure Vessel Code</th>
<th>Unit of this part</th>
</tr>
</thead>
<tbody>
<tr>
<td>U–1 and U–2 modified by..........................................................</td>
<td>54.01–5 through 54.01–15.</td>
</tr>
<tr>
<td>U–1(c) replaced by..............................................................</td>
<td>54.01–6.</td>
</tr>
<tr>
<td>U–1(d) replaced by...............................................................</td>
<td>54.01–5(a) and 54.01–15.</td>
</tr>
<tr>
<td>U–1(g) modified by...............................................................</td>
<td>54.01–10.</td>
</tr>
<tr>
<td>UG–11 modified by.................................................................</td>
<td>54.01–15.</td>
</tr>
<tr>
<td>UG–22 modified by.................................................................</td>
<td>54.01–25.</td>
</tr>
<tr>
<td>UG–25 modified by.................................................................</td>
<td>54.01–30.</td>
</tr>
<tr>
<td>UG–28 modified by.................................................................</td>
<td>54.01–35.</td>
</tr>
<tr>
<td>UG–84 replaced by.................................................................</td>
<td>54.05–1.</td>
</tr>
<tr>
<td>UG–90 and UG–91 replaced by ...............................................</td>
<td>54.10–3.</td>
</tr>
</tbody>
</table>