

§ 53.05-1

(2) Meet the service restrictions of § 53.01-10(b)(2) if made of cast iron;

(3) Have safety valves which meet the requirements of § 52.01-120 of this subchapter;

(4) If a hot water supply boiler, have a temperature relief valve or a pressure-temperature relief valve in accordance with § 53.05-2(c);

(5) If automatically controlled, meet the applicable requirements in part 63 of this subchapter; and

(6) Meet the inspection and test requirements of § 53.10-3.

(f) *Controls and miscellaneous accessories.* Refer to part 63 of this subchapter for the requirements governing controls and miscellaneous accessories.

[CGFR 68-82, 33 FR 18826, Dec. 18, 1968, as amended by CGD 81-79, 50 FR 9435, Mar. 8, 1985; USCG-2003-16630, 73 FR 65163, Oct. 31, 2008]

Subpart 53.05—Pressure Relieving Devices (Article 4)

SOURCE: CGD 81-79, 50 FR 9435, Mar. 8, 1985, unless otherwise noted.

§ 53.05-1 Safety valve requirements for steam boilers (modifies HG-400 and HG-401).

(a) The pressure relief valve requirements and the safety valve requirements for steam boilers must be as indicated in HG-400 and HG-401 of section IV of the ASME Boiler and Pressure Vessel Code (incorporated by reference; see 46 CFR 53.01-1) except as noted otherwise in this section.

(b) Each steam boiler must have at least one safety valve.

[CGD 81-79, 50 FR 9435, Mar. 8, 1985, as amended by USCG-2003-16630, 73 FR 65163, Oct. 31, 2008]

§ 53.05-2 Relief valve requirements for hot water boilers (modifies HG-400.2).

(a) The relief valve requirements for hot water boilers must be as indicated in article 4 of section IV of the ASME Boiler and Pressure Vessel Code (incorporated by reference; see 46 CFR 53.01-1) except as noted otherwise in this section.

(b) *Hot water heating boilers.* Each hot water heating boiler must have at least one safety relief valve.

46 CFR Ch. I (10-1-10 Edition)

(c) *Hot water supply boilers.* Each hot water supply boiler must have at least one safety relief valve and a temperature relief valve or a pressure-temperature relief valve. The valve temperature setting must not be more than 99 °C (210 °F).

[CGD 81-79, 50 FR 9435, Mar. 8, 1985, as amended by USCG-2003-16630, 73 FR 65163, Oct. 31, 2008]

§ 53.05-3 Materials (modifies HG-401.2).

Materials for valves must be in accordance with HG-401.2 of section IV of the ASME Boiler and Pressure Vessel Code (incorporated by reference; see 46 CFR 53.01-1) except that nonmetallic materials may be used only for gaskets and packing.

[USCG-2003-16630, 73 FR 65164, Oct. 31, 2008]

§ 53.05-5 Discharge capacities and valve markings.

The discharge capacities and valve markings must be as indicated in HG-402 of section IV of the ASME Boiler and Pressure Vessel Code (incorporated by reference; see 46 CFR 53.01-1). The discharge capacities must be certified by the National Board of Boiler and Pressure Vessel Inspectors.

[USCG-2003-16630, 73 FR 65164, Oct. 31, 2008]

Subpart 53.10—Tests, Inspection, Stamping, and Reporting (Article 5)

§ 53.10-1 General.

The tests, inspection, stamping, and reporting of heating boilers shall be as indicated in Article 5, Part HG of section IV of the ASME Boiler and Pressure Vessel Code (incorporated by reference; see 46 CFR 53.01-1) except as noted otherwise in this subpart.

[USCG-2003-16630, 73 FR 65164, Oct. 31, 2008]

§ 53.10-3 Inspection and tests (modifies HG-500 through HG-540).

(a) The inspections required by HG-500 through HG-540 must be performed by the “Authorized Inspector” as defined in HG-515 of section IV of the ASME Boiler and Pressure Vessel Code (incorporated by reference; see 46 CFR 53.01-1). The Authorized Inspector shall

hold a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors. After installation, heating boilers must be inspected for compliance with this part by a marine inspector.

(b) Automatically controlled boilers must be subjected to the operating tests prescribed in part 63 of this subchapter.

(c) All heating boilers must have the operation of their pressure relieving devices checked after the final installation.

[CGD 81-79, 50 FR 9436, Mar. 8, 1985, as amended by USCG-2003-16630, 73 FR 65164, Oct. 31, 2008]

§ 53.10-10 Certification by stamping.

Stamping of heating boilers shall be as indicated in HG-530 of section IV of the ASME Boiler and Pressure Vessel Code (incorporated by reference; see 46 CFR 53.01-1).

[USCG-2003-16630, 73 FR 65164, Oct. 31, 2008]

§ 53.10-15 Manufacturers' data report forms.

The manufacturers' data report forms required by HG-520 of section IV of the ASME Boiler and Pressure Vessel Code (incorporated by reference; see 46 CFR 53.01-1) must be made available to the marine inspector for review. The Authorized Inspector's National Board commission number must be included on the manufacturers' data report forms.

[USCG-2003-16630, 73 FR 65164, Oct. 31, 2008]

Subpart 53.12—Instruments, Fittings, and Controls (Article 6)

§ 53.12-1 General (modifies HG-600 through HG-640).

(a) The instruments, fittings and controls for heating boilers shall be as indicated in HG-600 through HG-640 of section IV of the ASME Boiler and Pressure Vessel Code (incorporated by reference; see 46 CFR 53.01-1) except as noted otherwise in this section.

(b) For control systems for automatic auxiliary heating equipment, the

requirements in part 63 of this subchapter govern and shall be followed.

[CGFR 68-82, 33 FR 18826, Dec. 18, 1968, as amended by USCG-2003-16630, 73 FR 65164, Oct. 31, 2008]

PART 54—PRESSURE VESSELS

Subpart 54.01—General Requirements

Sec.

54.01-1 Incorporation by reference

54.01-2 Adoption of division 1 of section VIII of the ASME Boiler and Pressure Vessel Code.

54.01-5 Scope (modifies U-1 and U-2).

54.01-10 Steam-generating pressure vessels (modifies U-1(g)).

54.01-15 Exemptions from shop inspection and plan approval (modifies U-1(c)(2)).

54.01-17 Pressure vessel for human occupancy (PVHO).

54.01-18 Plan approval.

54.01-25 Miscellaneous pressure components (modifies UG-11).

54.01-30 Loadings (modifies UG-22).

54.01-35 Corrosion (modifies UG-25).

54.01-40 External pressure (modifies UG-28).

Subpart 54.03—Low Temperature Operation

54.03-1 Scope.

54.03-5 General.

Subpart 54.05—Toughness Tests

54.05-1 Scope (replaces UG-84).

54.05-3 Tests required.

54.05-5 Toughness test specimens.

54.05-6 Toughness test temperatures.

54.05-10 Certification of material toughness tests.

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).

54.10-3 Marine inspectors (replaces UG-90 and UG-91, and modifies UG-92 through UG-103).

54.10-5 Maximum allowable working pressure (reproduces UG-98).

54.10-10 Standard hydrostatic test (modifies UG-99).