

§ 52.01-140 Certification by stamping (modifies PG-104 through PG-113).

(a) All boilers built in accordance with this part must be stamped with the appropriate ASME Code symbol as required by PG-104 through PG-113 of the ASME Code.

(b)(1) Upon satisfactory completion of the tests and Coast Guard inspections, boilers must be stamped with the following:

- (i) Manufacturer's name and serial number;
- (ii) ASME Code Symbol;
- (iii) Coast Guard symbol, which is affixed only by marine inspector (see § 50.10-15 of this subchapter);
- (iv) Maximum allowable working pressure _____ at _____ °C (°F); and
- (v) Boiler rated steaming capacity in kilograms (pounds) per hour (rated joules (B.T.U.) per hour output for high temperature water boilers).

(2) The information required in paragraph (b)(1) of this section must be located on:

- (i) The front head or shell near the normal waterline and within 610 mm (24 inches) of the front of firetube boilers; and
- (ii) The drum head of water tube boilers.

(3) Those heating boilers which are built to section I of the ASME Code, as permitted by § 53.01-10(e) of this subchapter, do not require Coast Guard stamping and must receive full ASME stamping including the appropriate code symbol.

(c) The data shall be legibly stamped and shall not be obliterated during the life of the boiler. In the event that the portion of the boiler upon which the data is stamped is to be insulated or otherwise covered, a metal nameplate as described in PG-106.6 of the ASME Code shall be furnished and mounted. The nameplate is to be maintained in a legible condition so that the data may be easily read.

(d) Safety valves shall be stamped as indicated in PG-110 of the ASME Code.

[CGD 81-79, 50 FR 9433, Mar. 8, 1985]

§ 52.01-145 Manufacturers' data report forms (modifies PG-112 and PG-113).

The manufacturers' data report forms required by PG-112 and PG-113 of

the ASME Code 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.

[CGD 81-79, 50 FR 9434, Mar. 8, 1985]

Subpart 52.05—Requirements for Boilers Fabricated by Welding**§ 52.05-1 General (modifies PW-1 through PW-54).**

(a) Boilers and component parts, including piping, that are fabricated by welding shall be as indicated in PW-1 through PW-54 of the ASME Code except as noted otherwise in this subpart.

§ 52.05-15 Heat treatment (modifies PW-10).

(a) Vessels and vessel parts shall be preheated and postweld heat treated in accordance with PW-38 and PW-39 of the ASME Code (reproduces PW-10). This includes boiler parts made of pipe material even though they may be non-destructively examined under § 52.05-20.

§ 52.05-20 Radiographic and ultrasonic examination (modifies PW-11 and PW-41.1).

Radiographic and ultrasonic examination of welded joints shall be as described in PW-11 of the ASME Code except that parts of boilers fabricated of pipe material, such as drums, shells, downcomers, risers, cross pipes, headers and tubes containing only circumferentially welded butt joints, shall be nondestructively examined as required by § 56.95-10 of this subchapter even though they may be exempted by the size limitations specified in PW-11.1.2 and PW-41.1 of the ASME Code.

[CGD 81-79, 50 FR 9434, Mar. 8, 1985]

§ 52.05-30 Minimum requirements for attachment welds (modifies PW-16).

(a) The location and minimum size of attachment welds for nozzles and other connections shall be as required by PW-16 of the ASME Code except as noted otherwise in this section.

(b) When nozzles or couplings are attached to boilers, as shown in Figure PW-16 (a) and (c) of the ASME Code and are welded from one side only,

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backing strips shall be used unless it can be determined visually or by acceptable nondestructive test methods that complete penetration has been obtained.

(c) When attachments as shown in Figure PW-16 (y) and (z) of the ASME Code are employed they shall be limited to 2-inch pipe size for pressure exceeding 150 pounds per square inch.

§ 52.05-45 Circumferential joints in pipes, tubes and headers (modifies PW-41).

(a) Circumferential welded joints of pipes, tubes and headers shall be as required by PW-41 of the ASME Code except as noted otherwise in this section.

(b) (Modifies PW-41.1) Circumferential welded joints in pipes, tubes, and headers of pipe material must be non-destructively examined as required by § 56.95-10 of this subchapter and PW-41 of the ASME Code.

(c) (Modifies PW-41.5) Butt welded connections shall be provided whenever radiography is required by § 56.95-10 of this subchapter for the piping system in which the connection is to be made. When radiography is not required, welded socket or sleeve type joints meeting the requirements of PW-41.5 of the ASME Code may be provided.

[CGFR 68-82, 33 FR 18815, Dec. 18, 1968, as amended by CGD 81-79, 50 FR 9434, Mar. 8, 1985]

Subpart 52.15—Requirements for Watertube Boilers

§ 52.15-1 General (modifies PWT-1 through PWT-15).

Watertube boilers and parts thereof shall be as indicated in PWT-1 through PWT-15 of the ASME Code except as noted otherwise in this subpart.

[CGD 81-79, 50 FR 9434, Mar. 8, 1985]

§ 52.15-5 Tube connections (modifies PWT-9 and PWT-11).

(a) Tubes, pipe and nipples shall be attached to sheets, heads, headers, and fittings as indicated in PWT-11 of the ASME Code except as noted otherwise in this section.

(b) (Replaces PWT-9.2 and PWT-11.3.) Threaded boiler tubes shall not be per-

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mitted as described by PWT-9.2 and PWT-11.3 of the ASME Code.

(c) In welded wall construction employing stub and welded wall panels which are field welded, approximately 10 percent of the field welds shall be checked using any acceptable non-destructive test method.

(d) Nondestructive testing of the butt welded joints shall meet the requirements of § 56.95-10 of this subchapter.

[CGFR 68-82, 33 FR 18815, Dec. 18, 1968, as amended by CGFR 69-127, 35 FR 9976, June 17, 1970; CGD 81-79, 50 FR 9434, Mar. 8, 1985]

Subpart 52.20—Requirements for Firetube Boilers

§ 52.20-1 General (modifies PFT-1 through PFT-49).

(a) Firetube boilers and parts thereof shall be as indicated in PFT-1 through PFT-49 of the ASME Code except as noted otherwise in this subpart.

§ 52.20-17 Opening between boiler and safety valve (modifies PFT-44).

When a discharge pipe is used, it must be installed in accordance with the requirements of § 52.01-105.

[CGD 81-79, 50 FR 9434, Mar. 8, 1985]

§ 52.20-25 Setting (modifies PFT-46).

(a) The method of supporting firetube boilers shall be as indicated in PFT-46 of the ASME Code except as noted otherwise in this section.

(b) The foundations shall meet the requirements of § 52.01-130.

Subpart 52.25—Other Boiler Types

SOURCE: CGD 81-79, 50 FR 9434, Mar. 8, 1985, unless otherwise noted.

§ 52.25-1 General.

Requirements for fired boilers of various sizes and uses are referenced in Table 54.01-5(a) of this subchapter.

§ 52.25-3 Feedwater heaters (modifies PFH-1).

In addition to the requirements in PFH-1 of the ASME Code, feedwater heaters must meet the requirements in this part or the requirements in part 54.