

is replaced by the alloy designation and “\*\*\*” by the alloy type.

(9) Minimum Thickness—shell (Min. Shell-thick), in inches. When minimum shell thicknesses are not the same for different areas, show (top\_\_, side\_\_, bottom \_\_, in inches).

(10) Minimum thickness—heads (Min. heads thick.), in inches.

(11) Manufactured thickness—shell (Mfd. Shell thick.), top\_\_, side \_\_, bottom \_\_, in inches. (Required when additional thickness is provided for corrosion allowance.)

(12) Manufactured thickness—heads (Mfd. Heads thick.), in inches. (Required when additional thickness is provided for corrosion allowance.)

(13) Exposed surface area, in square feet.

**Note to paragraph (b):** When the shell and head materials are the same thickness, they may be combined, (Shell&head matl, yyy\*\*\*).

(c) *Specification plate.* The following information must be marked on the specification plate in accordance with this section:

(1) Cargo tank motor vehicle manufacturer (CTMV mfr.).

(2) Cargo tank motor vehicle certification date (CTMV cert. date).

(3) Cargo tank manufacturer (CT mfr.).

(4) Cargo tank date of manufacture (CT date of mfr.), month and year.

(5) Maximum weight of lading (Max. Payload), in pounds

(6) Lining materials (Lining), if applicable.

(7) Heating system design pressure (Heating sys. press.), in psig, if applicable.

(8) Heating system design temperature (Heating sys. temp.), in °F, if applicable.

(9) Cargo tank serial number, assigned by cargo tank manufacturer (CT serial), if applicable.

**Note 1 to paragraph (c):** See § 173.315(a) of this chapter regarding water capacity.

**Note 2 to paragraph (c):** When the shell and head materials are the same thickness, they may be combined (Shell & head matl, yyy\*\*\*).

\* \* \* \* \*

■ 8. On page 19282, in the first column, revise paragraph (c)(2) of § 178.338–10, to read as follows:

**§ 178.338–10 Accident damage protection.**

\* \* \* \* \*

(c) \* \* \*

(2) Conform to the requirements of § 178.345–8(b).

\* \* \* \* \*

■ 9. On page 19283, in the third column, in § 178.345–1, revise paragraph (c)

introductory text and the definitions for “sacrificial device” and “shear section”, to read as follows:

**§ 178.345–1 General requirements.**

\* \* \* \* \*

(c) *Definitions.* See § 178.320(a) for the definition of certain terms used in §§ 178.345, 178.346, 178.347, and 178.348. In addition, the following definitions apply to §§ 178.345, 178.346, 178.347, and 178.348:

\* \* \* \* \*

*Sacrificial device* means an element, such as a shear section, designed to fail under a load in order to prevent damage to any lading retention part or device. The device must break under strain at no more than 70 percent of the strength of the weakest piping element between the cargo tank and the *sacrificial device*. Operation of the *sacrificial device* must leave the remaining piping and its attachment to the cargo tank intact and capable of retaining lading.

\* \* \* \* \*

*Shear section* means a sacrificial device fabricated in such a manner as to abruptly reduce the wall thickness of the adjacent piping or valve material by at least 30 percent.

\* \* \* \* \*

■ 10. On page 19284, in the third column, correct paragraphs (c)(4) and (c)(7) of § 178.345–14, to read as follows:

**§ 178.345–14 Marking.**

\* \* \* \* \*

(c) \* \* \*

(4) Cargo tank date of manufacture (CT date of mfr.), month and year.

\* \* \* \* \*

(7) Maximum unloading rate in gallons per minute (Max. Unload rate).

\* \* \* \* \*

■ 11. On page 19285, in the middle column, add paragraph (d)(8) to § 178.347–1, to read as follows:

**§ 178.347–1 General requirements.**

\* \* \* \* \*

(d) \* \* \*

(8) The following paragraphs in parts UG and UW of the ASME Code, Section VIII, Division I do not apply: UG–11, UG–12, UG–22(g), UG–32(e), UG–34, UG–35, UG–44, UG–76, UG–77, UG–80, UG–81, UG–96, UG–97, UW–12, UW–13(b)(2), UW–13.1(f), and the dimensional requirements found in Figure UW–13.1.

\* \* \* \* \*

■ 12. On page 19286, beginning in the first column and continuing to the middle column, revise paragraph (b)(2) in § 180.405 to read as follows:

**§ 180.405 Qualification of cargo tanks.**

\* \* \* \* \*

(b) \* \* \*

(2) *Exception.* A cargo tank originally manufactured to the MC 306, MC 307, or MC 312 specification may be recertified to the original specification provided:

(i) Records are available verifying the cargo tank was originally manufactured to the specification;

(ii) If the cargo tank was stretched, rebarrelled, or modified, records are available verifying that the stretching, rebarrelling, or modification was performed in accordance with the National Board Inspection Code and this part;

(iii) A Design Certifying Engineer or Registered Inspector verifies the cargo tank conforms to all applicable requirements of the original specification and furnishes to the owner written documentation that verifies the tank conforms to the original structural design requirements in effect at the time the tank was originally constructed;

(iv) The cargo tank meets all applicable tests and inspections required by § 180.407(c); and

(v) The cargo tank is recertified to the original specification in accordance with the reporting and record retention provisions of § 180.417. The certification documents required by § 180.417(a)(3) must include both the date the cargo tank was originally certified to the specification and the date it was recertified. The specification plate on the cargo tank or the cargo tank motor vehicle must display the date the cargo tank was originally certified to the specification.

\* \* \* \* \*

■ 13. On page 19286, in the third column, correct amendatory instruction number 52(c) to read as follows:

52. \* \* \*

(c) Paragraphs (a)(2), (b)(1), (b)(2), (c), (d)(1), (g)(1)(ii), (g)(1)(iv) introductory text, (g)(4), (h)(1) introductory text, (h)(2), (i)(5) introductory text, titles and column headings to Tables I and II in (i)(5) and (i)(6) are revised.

\* \* \* \* \*

**§ 180.407 [Amended]**

■ 14. On page 19288, make the following corrections to the tables in paragraph (i)(5) of § 180.407:

a. Correct the title to Table I to read “TABLE I.—IN-SERVICE MINIMUM THICKNESS FOR MC 300, MC 303, MC 304, MC 306, MC 307, MC 310, MC 311, AND MC 312 SPECIFICATION CARGO TANKS CONSTRUCTED OF STEEL AND STEEL ALLOYS”.