

Issued at Washington, D.C., June 11, 1970.

[SEAL] INTERSTATE COMMERCE  
COMMISSION,  
R. D. PFAHLER,  
Agent.

[F.R. Doc. 70-7559; Filed, June 16, 1970;  
8:48 a.m.]

[S.O. 1002; Revised Car Distribution Direction  
No. 84]

# **BALTIMORE AND OHIO RAILROAD CO., AND BURLINGTON NORTH- ERN, INC.**

## **Car Distribution**

Pursuant to section 1 (15) and (17) of the Interstate Commerce Act and authority vested in me by Interstate Commerce Commission Service Order No. 1002.

*It is ordered, That:*

(1) Each common carrier by railroad subject to the Interstate Commerce Act shall comply with the following distribution directions:

(a) The Baltimore and Ohio Railroad Co. shall deliver to the Burlington Northern, Inc., a weekly total of 175 empty plain serviceable boxcars with inside length less than 44 feet 8 inches and doors less than 9 feet wide. Exception: Canadian ownerships and cars named in Service Orders 1037<sup>1</sup> and 1041.<sup>2</sup>

*It is further ordered, That* the rate of delivery specified in this direction shall be maintained within weekly periods ending each Sunday at 11:59 p.m., so that at the end of each 7 days the full delivery required for that period shall have been made.

*It is further ordered, That* cars applied under this direction shall be so identified on empty car cards, movement slips, and interchange records as moving under the provisions of this direction.

(b) The carrier delivering the empty boxcars as described above must advise Agent R. D. Pfahler on or before each Wednesday as to the number of cars, covered by this direction, delivered during the preceding week, ending each Sunday at 11:59 p.m.

(c) The carrier receiving the cars described above must advise Agent R. D. Pfahler on or before each Wednesday as to the number of cars received during the preceding week, ending each Sunday at 11:59 p.m.

(2) *Regulations suspended.* The operation of all rules and regulations, insofar as they conflict with the provisions of this direction, is hereby suspended.

(3) *Effective date.* This direction shall become effective at 12:01 a.m., June 12, 1970.

(4) *Expiration date.* This direction shall expire at 11:59 p.m., June 21, 1970, unless otherwise modified, changed, or suspended by order of this Commission.

*It is further ordered, That* a copy of this direction shall be served upon the Association of American Railroads, Car Service Division, as agent of all rail-

<sup>1</sup> Change.

roads subscribing to the car service and per diem agreement under the terms of that agreement; and that notice of this direction be given to the general public by depositing a copy in the Office of the Secretary of the Commission in Washington, D.C., and by filing it with the Director, Office of the Federal Register.

Issued at Washington, D.C., June 11, 1970.

[SEAL] INTERSTATE COMMERCE  
COMMISSION,  
R. D. PFAHLER,  
Agent.

[F.R. Doc. 70-7560; Filed, June 16, 1970;  
8:48 a.m.]

[S.O. 1002; Revised Car Distribution  
Direction No. 85]

# **KANSAS CITY SOUTHERN RAILWAY CO., AND BURLINGTON NORTH- ERN, INC.**

## **Car Distribution**

Pursuant to section 1 (15) and (17) of the Interstate Commerce Act and authority vested in me by Interstate Commerce Commission Service Order No. 1002.

*It is ordered, That:*

(1) Each common carrier by railroad subject to the Interstate Commerce Act shall comply with the following distribution directions:

(a) The Kansas City Southern Railway Co. shall deliver to the Burlington Northern, Inc., a weekly total of 175 empty plain serviceable boxcars with inside length less than 44 feet 8 inches and doors less than 9 feet wide. Exception: Canadian ownerships and cars named in Service Orders 1037<sup>1</sup> and 1041.<sup>2</sup>

*It is further ordered, That* the rate of delivery specified in this direction shall be maintained within weekly periods ending each Sunday at 11:59 p.m., so that at the end of each 7 days the full delivery required for that period shall have been made.

*It is further ordered, That* cars applied under this direction shall be so identified on empty car cards, movement slips, and interchange records as moving under the provisions of this direction.

(b) The carrier delivering the empty boxcars as described above must advise Agent R. D. Pfahler on or before each Wednesday as to the number of cars, covered by this direction, delivered during the preceding week, ending each Sunday at 11:59 p.m.

(c) The carrier receiving the cars described above must advise Agent R. D. Pfahler on or before each Wednesday as to the number of cars received during the preceding week, ending each Sunday at 11:59 p.m.

(2) *Regulations suspended.* The operation of all rules and regulations, insofar as they conflict with the provisions of this direction, is hereby suspended.

(3) *Effective date.* This direction shall become effective at 12:01 a.m., June 12, 1970.

<sup>1</sup> Change.

(4) *Expiration date.* This direction shall expire at 11:59 p.m., June 21, 1970, unless otherwise modified, changed, or suspended by order of this Commission.

*It is further ordered, That* a copy of this direction shall be served upon the Association of American Railroads, Car Service Division, as agent of all railroads subscribing to the car service and per diem agreement under the terms of that agreement; and that notice of this direction be given to the general public by depositing a copy in the Office of the Secretary of the Commission in Washington, D.C., and by filing it with the Director, Office of the Federal Register.

Issued at Washington, D.C., June 11, 1970.

[SEAL] INTERSTATE COMMERCE  
COMMISSION,  
R. D. PFAHLER,  
Agent.

[F.R. Doc. 70-7561; Filed, June 16, 1970;  
8:49 a.m.]

[S.O. 1002; Car Distribution Direction No.  
87-A]

# **SOUTHERN RAILWAY CO. AND MISSOURI-KANSAS-TEXAS RAIL- ROAD CO.**

## **Car Distribution**

Upon further consideration of Car Distribution Direction No. 87, and good cause appearing therefor:

*It is ordered, That:*

Car Distribution Direction No. 87 be, and it is hereby, vacated.

*It is further ordered, That* this order shall become effective at 11:59 p.m., June 14, 1970, and that it shall be served upon the Association of American Railroads, Car Service Division, as agent of all railroads subscribing to the car service and per diem agreement under the terms of that agreement; and that it be filed with the Director, Office of the Federal Register.

Issued at Washington, D.C., June 12, 1970.

[SEAL] INTERSTATE COMMERCE  
COMMISSION,  
R. D. PFAHLER,  
Agent.

[F.R. Doc. 70-7562; Filed, June 16, 1970;  
8:49 a.m.]

[S.O. 1002; Car Distribution Direction No.  
88-A]

# **SEABOARD COAST LINE RAILROAD CO., LOUISVILLE AND NASHVILLE RAILROAD CO., AND MISSOURI- KANSAS-TEXAS RAILROAD CO.**

## **Car Distribution**

Upon further consideration of Car Distribution Direction No. 88, and good cause appearing therefor:

*It is ordered, That:*

Car Distribution Direction No. 88 be, and it is hereby, vacated.

*It is further ordered, That* this order shall become effective at 11:59 p.m.,



[F.R. Doc. 70-7563; Filed, June 16, 1970;  
8:49 a.m.]

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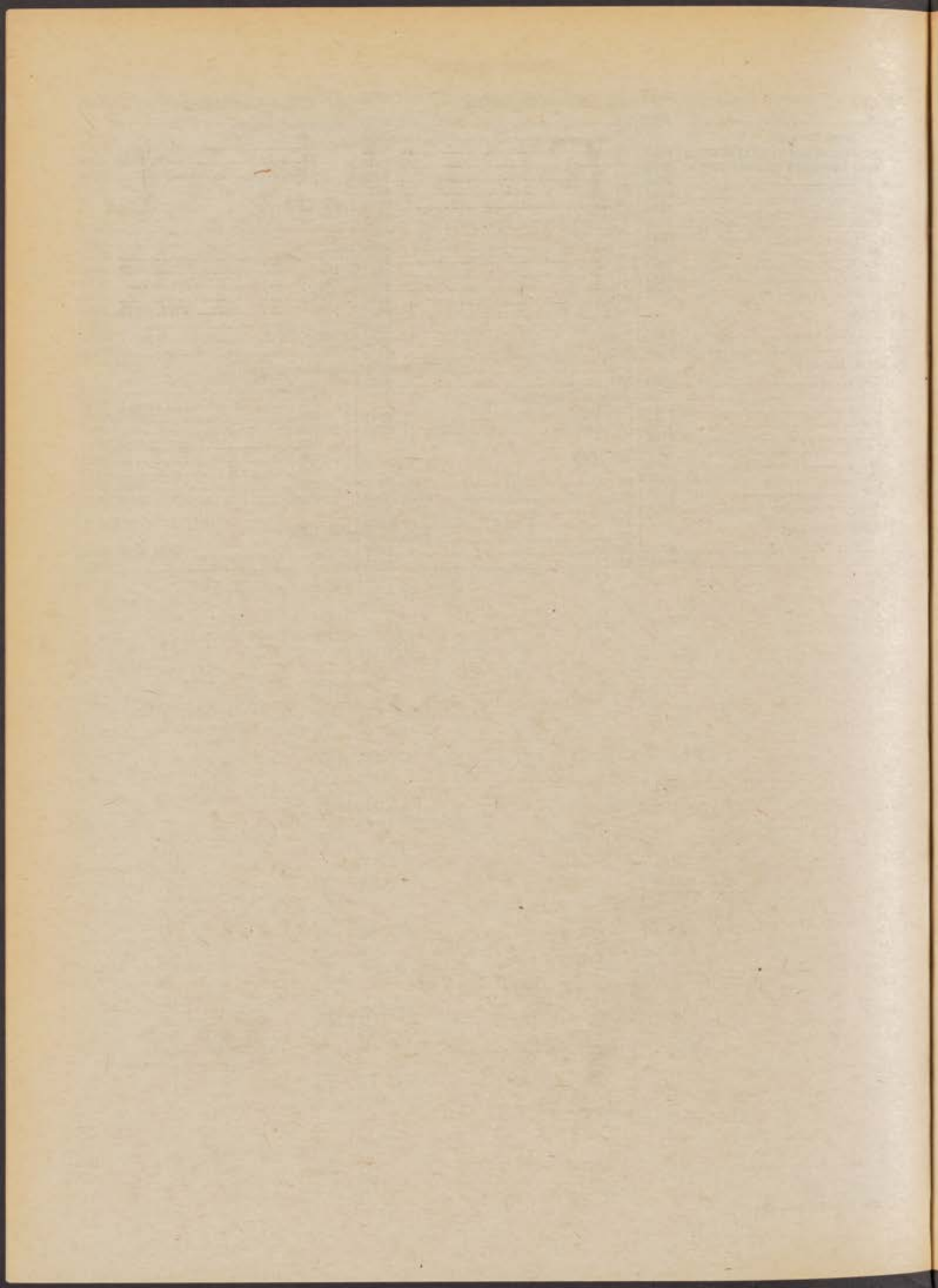
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# FEDERAL REGISTER

VOLUME 35 • NUMBER 117

Wednesday, June 17, 1970 • Washington, D.C.

PART II

## DEPARTMENT OF TRANSPORTATION

Coast Guard

Miscellaneous Amendments to Chapter





## Title 46—SHIPPING

### Chapter I—Coast Guard, Department of Transportation

[CGFR 69-127]

#### MISCELLANEOUS AMENDMENTS TO CHAPTER

The purpose of this document is to make miscellaneous amendments to Subchapters A (Procedures Applicable To The Public), B (Merchant Marine Officers and Seamen), D (Tank Vessels), F (Marine Engineering), H (Passenger Vessels), I (Cargo and Miscellaneous Vessels), N (Dangerous Cargoes), and R (Nautical Schools).

The majority of the amendments concern Subchapter F, which was extensively revised by a document published in the *FEDERAL REGISTER* of December 18, 1968 (33 F.R. 18808) which became effective on July 1, 1969. This document corrects manifest errors that have been found in this revision and eliminates a number of unnecessary duplications. Also, the document reflects changes in the names and addresses of a number of societies which issue the codes and standards which are incorporated by reference in this subchapter. Since these amendments are editorial in nature, it is hereby found to be unnecessary to comply with the requirements of the Administrative Procedure Act concerning notice and public procedure thereon.

Under the terms of the incorporation by reference presently contained in Subchapter F of the various industry standards and codes, changes to these standards and codes made by the societies issuing them are also adopted by the Coast Guard, unless expressly disaffirmed. Some of the amendments in this document are made to reflect recent changes in the standards and codes which by the terms of the existing regulations have already been adopted. The existing § 50.15-30(b) expressly provides that these amendments to the regulations caused by changes in the standards and codes will be made by the Coast Guard without notice of rule making.

Under the present regulations, the manufacturer of boilers, pressure vessels, or nuclear pressure vessels is required to complete the Manufacturers' Data Report prescribed by the ASME Code, as modified by the appropriate Officer in Charge, Marine Inspection of the Coast Guard. This ASME form consists of eight pages and experience has indicated that the modifications directed by the local Coast Guard official, if incomplete or incorrect, can cause confusion. In place of the modified ASME form, the Coast Guard has developed an abridged Coast Guard Form (Form CG-2936, Rev. 11-69) consisting of only one page. This form has been approved by the Bureau of the Budget. Several of the amendments in this document require that the manufacturer complete this abridged Coast Guard Form instead of the previously

required ASME Code Form, as modified. This substitution will result in less burden to the manufacturer and will eliminate possible confusion to all concerned. In view of these circumstances, it is hereby found to be unnecessary to comply with the requirements of the Administrative Procedure Act concerning notice and public procedure thereon.

Several amendments in this document disaffirm the general adoption of Code Cases issued by the Societies interpreting and applying certain sections of the codes and standards to specific factual situations. This disaffirmance is necessitated by the fact that experience has shown that many of these Code Cases are manifestly inapplicable to marine installations. Section 50.15-60(b) provides, *inter alia*, that when the Coast Guard determines that a Code Case is unsatisfactory for marine use, a prohibition against its use will be published in the first instance as a rule without notice of rule making. Thereafter, the matter will be placed in the Public Hearing Agenda so that all interested persons may present comments thereon. This procedure will be adhered to with respect to all the amendments in this document which disaffirm the existing adoption of these Code Cases. The sections involved are 46 CFR 50.15-5, 50.15-10, 50.15-13, 56.01-5. These amendments will be placed on the next public hearing agenda and notice thereof will be published in the *FEDERAL REGISTER*.

The minor changes made by this document in the other subchapters are, in the main, self-explanatory. However, some of the changes warrant comment. Sections 10.05-33(a)(4), 10.10-2(a)(4), and 10.10-23(a)(4) are amended to provide that the completion of a prescribed deck or engineering course at a school operated by a union or nonprofit organization approved by the Commandant may be accepted as the equivalent of sea service up to a maximum of 4 months. The effect of these amendments is to equate training at a school operated by a union or nonprofit organization, after approval by the Commandant, to training at similar schools operated by the Government. The purpose of these amendments is to further alleviate the existing shortage of licensed deck and engineering officers. Since these schools operated by the unions are approved by the Commandant in the same manner as Government operated training schools and since time is of the essence in effectuating this change, it is hereby found to be unnecessary to comply with the requirements of the Administrative Procedure Act concerning notice and public procedure thereon.

Sections 70.05-30 and 90.05-35 are added to Subchapters H and I, respectively to repeat in those subchapters the provisions of 46 CFR 30.01-5 permitting the carriage of limited quantities of flammable and combustible liquids in bulk on passenger, cargo, and miscellaneous vessels, and to state the requirements of 46 U.S.C. 391a(4) that the

permit to carry these cargoes be endorsed on the vessel's certificate of inspection. These changes are editorial in nature and notice and public procedure thereon are not required.

A note is added to § 146.20-9, a new § 146.22-3 is added, and a new article is added to Table C of § 146.22-100 to provide that smokeless powder for small arms in quantities not exceeding 100 pounds net weight, contained in one vehicle, container, or other authorized packaging may be transported as a flammable solid. These changes are made pursuant to the statutory direction contained in 46 U.S.C. 170(7)(a) to establish consistency with the regulations of the Department of Transportation contained in 49 CFR 173.197(a). Accordingly, notice and public procedure on these amendments are not required.

Sections 146.24-21, 146.24-25, and Table G of § 146.24-200 are revised to exempt food, cosmetics, and related products in aerosol packages, charged with nonflammable, nontoxic gases from the on-deck stowage requirements for "Compressed gases, N.O.S." These revisions are consistent with the regulations of the Department of Transportation contained in 49 CFR Parts 170-179 governing these products when moving in land transportation. Carrier associations and terminal operators have pointed out that it is manifestly unreasonable to require on-deck stowage of containers of foodstuffs and cosmetics charged with nonflammable and nontoxic propellants. Furthermore, the present requirement for on-deck stowage prohibits stowage in refrigerated spaces which is required for the proper preservation of some of these products. The need for the revisions accomplished by this document is considered to be extremely acute. Since time is of the essence in effectuating these amendments to achieve consistency with the stowage requirements in land transportation notice and public procedure thereon are not required.

Section 167.01-5(c) is added to subchapter R in accordance with a legal opinion of the Chief Counsel, U.S. Coast Guard to provide that documented nautical school ships of 500 gross tons or over when engaged on an international voyage shall comply with the standards of the International Convention for Safety of Life at Sea, 1960, for cargo vessels. Consistent with this requirement, § 167.60-1(d) is added to provide that those vessels which do not comply with these standards shall have their certificate of inspection endorsed "Domestic Voyages Only". These amendments involve an interpretative ruling and do not require notice and public procedure thereon.

All of the amendments contained in this document have been thoroughly considered by the Merchant Marine Council of the Coast Guard. The Council has recommended to the Commandant the approval of these amendments. After due consideration the Commandant, U.S. Coast Guard has approved the amendments set forth below.



**SUBCHAPTER A—PROCEDURES APPLICABLE TO THE PUBLIC**

**PART 1—ORGANIZATION, GENERAL COURSE AND METHODS GOVERNING MARINE SAFETY FUNCTIONS**

1. Section 1.20(c) (1) (i) is revoked.

(R.S. 4405, as amended, 4462, as amended, sec. 6(b) (1), 80 Stat. 937; 46 U.S.C. 375, 416, 49 U.S.C. 1655(b) (1); 49 CFR 1.46(b))

**SUBCHAPTER B—MERCHANT MARINE OFFICERS AND SEAMEN**

**PART 10—LICENSING OF OFFICERS AND MOTORBOAT OPERATORS AND REGISTRATION OF STAFF OFFICERS**

**Subpart 10.05—Professional Requirements for Deck Officers' Licenses (Inspected Vessels)**

2. Section 10.05-33(a) (4) is revised to read as follows:

§ 10.05-33 Third mate of ocean steam or motor vessel.

(a) \* \* \*

(4) Satisfactory completion of the prescribed course (deck) at a U.S. Government operated training school, or at a recognized maritime union or non-profit organization training school, approved by the Commandant, may be accepted as the equivalent of sea service up to a maximum of 4 months, provided the applicant has obtained the additional qualifying experience prior to enrollment; or,

**Subpart 10.10—Professional Requirements for Engineer Officers' Licenses (Inspected Vessels)**

3. Section 10.10-21(a) (4) is revised to read as follows:

§ 10.10-21 Third assistant engineer; steam vessels.

(a) \* \* \*

(4) Satisfactory completion of the prescribed course (engineering) at a U.S. Government operated training school, or at a recognized maritime union or non-profit organization training school approved by the Commandant, may be accepted as the equivalent of sea service up to a maximum of 4 months, provided the applicant has obtained the additional qualifying experience prior to enrollment; or,

4. Section 10.10-23(a) (4) is revised to read as follows:

§ 10.10-23 Third assistant engineer; motor vessels.

(a) \* \* \*

(4) Satisfactory completion of the prescribed course (engineering) at a U.S. Government operated training school or at a recognized maritime union or non-profit organization training school approved by the Commandant, may be accepted as the equivalent of sea service up to 4 months, provided the applicant

has obtained the additional qualifying experience prior to enrollment; or,

(R.S. 4405, as amended, 4462, as amended, sec. 6(b) (1), 80 Stat. 937; 46 U.S.C. 375, 416, 49 U.S.C. 1655(b) (1); 49 CFR 1.46(b))

**SUBCHAPTER D—TANK VESSELS**

**PART 32—SPECIAL EQUIPMENT, MACHINERY, AND HULL REQUIREMENTS**

**Subpart 32.15—Navigation Equipment**

5. Section 32.15-25(a) is revised to read as follows:

§ 32.15-25 Radio direction finder—T/OC.

(a) All tankships of 1,600 gross tons and over on an international voyage or in ocean service shall be fitted with a radio direction finder. Details of the installation shall be as required by the statutes and regulations under the jurisdiction of the Federal Communications Commission.

(R.S. 4405, as amended, 4417a, as amended, 4462, as amended, sec. 6(b) (1), 80 Stat. 937; 46 U.S.C. 375, 391a, 416, 49 U.S.C. 1655(b) (1); 49 CFR 1.46(b))

**SUBCHAPTER F—MARINE ENGINEERING**

**PART 50—GENERAL PROVISIONS**

**Subpart 50.10—Definitions of Terms Used in This Chapter**

6. Table 50.10-30 of § 50.10-30 is amended by revoking the sixth entry which reads "CAI ----- Cairo" and adding in proper alphabetical sequence the entry "PAD ----- Paducah."

**Subpart 50.15—Reference Specifications, Standards, and Codes**

7. Section 50.15-50 is amended by deleting the words and "ASME Code Cases" in the heading and by revising paragraphs (a) and (b) to read as follows:

§ 50.15-5 ASME Boiler and Pressure Vessel Code.

(a) The following sections of the "ASME Boiler and Pressure Vessel Code" published by The American Society of Mechanical Engineers (ASME), United Engineering Center, 345 East 47th Street, New York, N.Y. 10017, are adopted subject to the limitations and modifications specified in this subchapter which appear with the listing:

- (1) Section I, Power Boilers (ASME, sec. I).
- (2) Section II, Material Specifications (ASME, sec. II).
- (3) Section III, Nuclear Vessels (ASME, sec. III).
- (4) Section IV, Heating Boilers (ASME, sec. IV).
- (5) Section VIII (Division 1), Pressure Vessels (ASME, sec. VHI).
- (6) Section IX, Welding Qualifications (ASME, sec. IX).

(b) The actions of the ASME Boiler and Pressure Vessel Code not referenced by paragraph (a) of this section are not adopted. Their use is prohibited unless specifically allowed by the Commandant.

8. Section 50.15-10 is revised to read as follows:

§ 50.15-10 ANSI Standards.

(a) All "ANSI Standards" of the American National Standards Institute (ANSI), 1430 Broadway, New York, N.Y. 10018, specifically described in this subchapter are adopted subject to the limitations and modifications specified in this subchapter which appear with the listing. Many of these standards are published by and may be obtained from The American Society of Mechanical Engineers, United Engineering Center, 345 East 47th Street, New York, N.Y. 10017. When a standard is not published by this Society, the publisher will be indicated in the specific listing.

(b) The actions of the ANSI Codes not listed in this subchapter, are not adopted. Their use is prohibited unless specifically allowed by the Commandant.

9. Subpart 50.15 is amended by adding a new section, § 50.15-13, to read as follows:

§ 50.15-13 Code Cases—ASME and ANSI.

(a) Code cases for ASME Sections and for ANSI Standards are not adopted.

(b) When the use of a current ASME or ANSI code case is desired with regard to a specific installation, permission for such use must be obtained from the Commandant.

10. Sections 50.15-20(a) (1), (5), and (11) are revised to read as follows:

§ 50.15-20 Additional standards.

(a) In addition to the previously referenced ASME, ANSI, and ASTM Standards, the following organizations have specifically selected standards described in this subchapter which are adopted subject to the limitations and modifications specified in this subchapter which appear with the listing:

(1) American Boat and Yacht Council, Inc. (ABYC), 15 East 26 Street, Room 1603, New York, N.Y. 10010.

(5) Manufacturer's Standardization Society of the Valve and Fittings Industry (MSS), 1815 North Fort Myer Drive, Arlington, Va. 22209.

(11) Marine Department, Underwriters' Laboratories, Inc. (formerly Yacht Safety Bureau), 336 Old Hook Road, Westwood, N.J. 07676.

(R.S. 4405, as amended, 4462, as amended, sec. 6(b) (1), 80 Stat. 937; 46 U.S.C. 375, 416, 49 U.S.C. 1655(b) (1); 49 CFR 1.46(b))

**PART 52—POWER BOILERS**

**Subpart 52.01—General Requirements**

11. Section 52.01-1 is amended by revoking paragraph (d).



12. In § 52.01-1 Table 52.01-1(a) is amended by deleting the 27th entry reading "PW-12 reproduced by ----- 52.05-25".

13. Section 52.01-3(c) is amended by deleting subparagraph (13) and redesignating subparagraphs (14), (15), and (16) as (13), (14), and (15) respectively.

14. Section 52.01-135(a) is amended by deleting the words "and in § 52.01-95 (d)".

15. Sections 52.01-140 (b) (5), (c), (d) (1), and (e) are revised to read as follows:

§ 52.01-140 Certification by Stamping (modifies PG-105 through PG-113).

(b) \* \* \*

(5) Boiler rated steaming capacity in pounds per hour (rated B.t.u./hr. output for high temperature water boilers).

(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 Coast Guard symbol shall be used instead of the ASME symbol on such plates and may only be affixed in the presence of a marine inspector. The nameplate is to be maintained in a legible condition so that the data may be easily read.

(d) (1) When only a pressure part of a boiler is supplied, the applicable data shall be recorded on the Manufacturers' data form as "Partial". The item shall be stamped with the Coast Guard symbol, the Marine Inspection Office identification letters (See § 50.10-30 of this chapter) and the word "Part", the manufacturer's name and serial number, and the maximum working pressure.

(e) PG-107 through PC-109 of the ASME Code do not apply. Field assembly of completed and stamped (less the Coast Guard number) individual boiler components at a shipyard is permitted. The manufacturer or assembler responsible for the completed boiler unit which is field assembled shall submit the final data report form.

16. Section 52.01-145 is revised to read as follows:

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

(a) The Manufacturers' data report form, as provided by the Coast Guard, shall be completed in duplicate and certified by the manufacturer for each power boiler required to be shop inspected under these regulations. The original of this form shall be delivered to the Coast Guard inspector.

(b) Data forms for those parts of a power boiler requiring inspection, which are furnished by other than the shop of the manufacturer responsible for the completed unit, shall be executed in triplicate by the parts manufacturer. The original and one copy shall be delivered

to the Coast Guard Inspector who shall forward one copy of the report to the Officer in Charge, Marine Inspection having cognizance over the final assembly. These partial data reports, together with the final inspection and tests, shall be the final Coast Guard inspector's authority to apply the Coast Guard symbol and number. A final data report shall be executed by the manufacturer or assembler who completes the final assembly and tests.

#### Subpart 52.05—Requirements for Boilers Fabricated by Welding

17. Section 52.05-25 is revoked.

#### Subpart 52.15—Requirements for Watertube Boilers

18. Section 52.15-5(a) is amended by changing the word "may" to "shall".

(R.S. 4405, as amended, 4462, as amended, sec. 6(b) (1), 80 Stat. 937; 46 U.S.C. 375, 416, 49 U.S.C. 1655(b) (1); 49 CFR 1.46(b))

### PART 53—HEATING BOILERS

#### Subpart 53.01—General Requirements

19. Section 53.01-1 is amended by revoking paragraph (d).

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

20. Section 53.10-10(c) is amended by revising subparagraph (6) and adding subparagraph (7) to read as follows:

§ 53.10-10 Certification by stamping (modifies HG-530).

(c) \* \* \*

(6) ----- Heating surface (sq. ft.)

(7) ----- Minimum safety valve or relief valve relieving capacity in pounds or B.t.u. per hour as determined according to HG-400.1(d) or HG-400.2(d) of the ASME Code.

21. Section 53.10-15 is revised to read as follows:

§ 53.10-15 Manufacturers' data report forms (modifies HG-520).

(a) The Manufacturers' data report form, as provided by the Coast Guard, shall be completed in duplicate and certified by the manufacturer for each heating boiler required to be shop inspected under these regulations. The original of this form shall be delivered to the Coast Guard inspector.

(b) Data forms for those parts of a heating boiler requiring inspection, which are furnished by other than the shop of the manufacturer responsible for the completed unit, shall be executed in triplicate by the manufacturer of the parts. The original and one copy shall be delivered to the Coast Guard inspector who shall forward one copy of the report to the Officer in Charge, Marine Inspection having cognizance over the final assembly. These partial data reports, together with the final inspection and tests, shall be the final Coast Guard inspector's authority to apply the Coast Guard symbol and number. A final data report shall be executed by the manu-

facturer or assembler who completes the final assembly and tests.

(R.S. 4405, as amended, 4462, as amended, sec. 6(b) (1), 80 Stat. 937; 46 U.S.C. 375, 416, 49 U.S.C. 1655(b) (1); 49 CFR 1.46(b))

### PART 54—PRESSURE VESSELS

#### Subpart 54.01—General Requirements

22. In Table 54.01-1(a) of § 54.01-1 (a) (1) certain entries following the headings at the top of the table are amended as follows:

(1) The first entry is changed to read, "U-1 and U-2 modified by ----- 54.01-5 through 54.01-16".

(2) The 17th entry is changed to read, "UG-116 modified by ----- 54.10-20".

(3) The 18th entry is changed to read, "UG-118 modified by ----- 54.10-20".

(4) Following the 24th entry reading "UW-1 through UW-65 modified by ----- 54.20-1" a new entry is added reading: "UW2 (a) and (b) replaced by ----- Table 54.01-5(b)".

(5) The 27th entry (which becomes the 28th entry) is changed to read, "UW-26, UW-28, UW-29, UW-47, UW-48 modified by ----- 54.20-5".

(6) Following the 28th entry (which becomes the 29th entry) two new entries are added reading:

UB-1 modified by ----- 54.23-1  
UB-2 modified by ----- 52.01-95d and 56.30-30 (b) (1)

23. Section 54.01-1 is amended by revoking paragraph (d).

24. The heading for § 54.01-5 is revised to read as follows:

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

25. Table 54.01-5(b) in § 54.01-5(b) is amended as follows:

(1) The first entry under the first column entitled "Class Service contents" is corrected to read:

I -----	(a) Vapor or gas.
	(b) Liquid.
	(c) Dangerous substances. <sup>2</sup>

(2) The second entry under the first column entitled, "Class Service contents" is corrected to read:

I-L low temperature.	(a) Vapor or gas.
	(b) Liquid.
	(c) Dangerous substances. <sup>2</sup>

(3) The entries for Class I and I-L in the fourth column entitled, "Post weld heat treatment required" (being the first two entries under this column) are changed to read as follows:

For carbon or low alloy steel, as per Table UCS-56, regardless of thickness. For other materials, as per section VIII, ASME Code.

(4) Footnote 4 is revised to read as follows:

<sup>2</sup> Refer to §§ 54.01-15 and 54.10-3 for exemptions.

26. Section 54.01-15 is amended by adding a new paragraph (b) to read as follows:



§ 54.01-15 Exemptions from shop inspection and plan approval (replaces U-1(d) and U-1(h)).

(b) For fluid conditioner fittings see § 56.15-1 of this subchapter.

27. Section 54.01-25(b) is revised to read as follows:

§ 54.01-25 Miscellaneous pressure components (modifies UC-11).

(b) All pressure components conforming to an accepted ANSI (American National Standards Institute) Standard referred to in an adopted code, specification or standard or in this subchapter shall also be marked in accordance with MSS (Manufacturers' Standardization Society) Standard SP-25.

#### Subpart 54.03—Low Temperature Operation

28. Section 54.03-5(a) is revised to read as follows:

§ 54.03-5 General.

(a) Requirements for ferritic steels, high alloy steels, and heat treated ferritic steels are contained in §§ 54.25-10, 54.25-15, and 54.25-20 respectively of this subchapter.

#### Subpart 54.05—Toughness Tests

29. Section 54.05-3(a)(1) is revised to read as follows:

§ 54.05-3 Tests required.

(a) \* \* \*

(1) Additional requirements for ferritic steels with properties enhanced by heat treatment are in § 54.25-20.

#### Subpart 54.10—Inspection, Reports, and Stamping

30. Section 54.10-20 is amended by revising the heading and adding paragraph (c)(1) to read as follows:

§ 54.10-20 Marking and stamping (modifies UC-116 and UC-118).

(c) \* \* \*

(1) Those parts of pressure vessels requiring inspection under this part which are furnished by other than the shop of the manufacturer responsible for the completed vessel shall be stamped with the Coast Guard symbol, the Marine Inspection Office identification letters (see § 50.10-30 of this subchapter) and the word "Part", the manufacturer's name and serial number, and the design pressure.

31. Section 54.10-25 is revised to read as follows:

§ 54.10-25 Manufacturers' data report forms (modifies UC-120).

(a) The Manufacturers' data report form, as provided by the Coast Guard, shall be completed in duplicate and certified by the manufacturer for each pressure vessel required to be shop inspected under these regulations. The original of

this form shall be delivered to the Coast Guard inspector.

(b) Data forms for those parts of a pressure vessel requiring inspection, which are furnished by other than the shop of the manufacturer responsible for the completed unit, shall be executed in triplicate by the manufacturer of the parts. The original and one copy shall be delivered to the Coast Guard inspector who shall forward one copy of the report to the Officer in Charge, Marine Inspection, having cognizance over the final assembly. These partial data reports, together with the final inspection and tests, shall be the final Coast Guard inspector's authority to apply the Coast Guard symbol and number. A final data report shall be executed by the manufacturer or assembler who completes the final assembly and tests.

#### Subpart 54.20—Fabrication by Welding

32. The heading for § 54.20-5 is revised to read as follows:

§ 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

33. Part 54 is amended by adding a new subpart, Subpart 54.23—Fabrication by Brazing, to follow subpart 54.20, and reading as follows:

#### Subpart 54.23—Fabrication by Brazing

§ 54.23-1 Scope (modifies UB-1).

(a) Fabrication by brazing shall be in accordance with the provisions of this part and with Part 57 of this subchapter.

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

§ 54.25-7 Requirement for postweld heat treatment (modifies UCS-56).

(a) Postweld heat treatment is required for all carbon and low alloy steel Class I, I-L, and II-L vessels regardless of thickness. (Refer to Table 54.01-5(b) for applicable requirements.)

(b) Cargo tanks which are fabricated of carbon or low alloy steel as Class II pressure vessels, designed for pressures exceeding 100 pounds per square inch gage and used in the storage or transportation of liquefied compressed gases shall be postweld heat treated regardless of thickness.

35. Section 54.25-10(b) is amended by changing in the first sentence of subparagraph (2) the word "killed" to "killed" and revising subparagraph (1)(ii) to read as follows:

§ 54.25-10 Low temperature operation—ferritic steels (replaces UCS-65 through UCS-67).

(b) \* \* \*

(1) \* \* \*

(ii) Mechanical properties shall be within the following limits:

Ultimate strength—	58,000 <sup>1</sup> –85,000 <sup>2</sup> p.s.i.
Yield strength—	Minimum 35,000 p.s.i. cent of ultimate. Maximum 80 percent in 8 inches, or 24 percent in 2 inches, or 22 percent in 5.65 √A, where "A" is the test specimen cross sectional area.
Elongation minimum—	

(R.S. 4405, as amended, 4462, as amended, sec. 6(b)(1), 80 Stat. 937; 46 U.S.C. 375, 416, 49 U.S.C. 1655(b)(1); 49 CFR 1.46(b))

### PART 55—NUCLEAR PRESSURE VESSELS

#### Subpart 55.01—General Requirements

36. In Table 55.01-1 of § 55.01-1(a) certain entries following the hearings at the top of the Table are revised as follows:

(1) The ninth entry is changed to read, "N-910 through N-914 modified by 55.10-40".

(2) The 11th entry is changed to read, "N-2110 through N-2116 modified by 55.20-1".

(3) The 12th entry is changed to read, "N-2116 replaced by 55.20-20(a)".

37. Section 55.01-1 is amended by revoking paragraph (d).

#### Subpart 55.10—Class A Vessels

38. Section 55.10-15(a) is revised to read as follows:

§ 55.10-15 Marine inspector (replaces N-612).

(a) The inspections will be conducted by marine inspectors (see § 50.10-15 of this subchapter) instead of the inspectors required by N-612 of the ASME Code.

39. The heading of § 55.10-20(a) is amended to read as follows:

§ 55.10-20 Welding and fabrication.

(a) Welding procedure and performance qualification (modifies N-522.1 and N-522.2)

40. Section 55.10-20(b)(2) is amended by changing in the first sentence "§ 57.06-1 of this subchapter" to "Subpart 57.06 of this chapter".

41. Section 55.10-30 is revised to read as follows:

§ 55.10-30 Marking and stamping (Modifies N-810 through N-840).

(a) Each pressure vessel shall be marked in the presence of a marine inspector at the place of fabrication as follows:

(1) Coast Guard symbol (see § 50.10-25 of this chapter).



(2) Coast Guard number (see § 50.10-30 of this chapter).

(3) The letter N for nuclear.

(4) The letter A for class A nuclear vessel.

(b) Each pressure vessel part requiring shop inspection which will be furnished by other than the shop of the manufacturer responsible for the completed unit shall be marked in the presence of a marine inspector at the place of fabrication as follows:

(1) Coast Guard symbol (see § 50.10-25 of this chapter).

(2) Marine inspection office identification letters (see § 50.10-30 of this chapter).

(3) The word "Part".

(4) The letter N for nuclear.

(5) The letter A for class A nuclear vessel.

(c) The markings for safety valves, pumps, piping and line valves shall follow the requirements of N-810 through N-840 for nuclear energy systems.

(d) (Modifies N-832.2) The manufacturer's quality assurance program shall be initially approved by the Commandant (MMT) and shall be periodically checked by the cognizant marine inspector which shall be in addition to or in lieu of the Society as specified in N-832.2 of the ASME Code. The manufacturer need not possess the contract specified by N-832.2 of the ASME Code.

42. Section 55.10-35 is revised to read as follows:

**§ 55.10-35 Manufacturers' data reports (modifies N-840).**

(a) The Manufacturers' data report form, as provided by the Coast Guard, shall be completed in duplicate and certified by the manufacturer for each nuclear pressure vessel required to be shop inspected under these regulations. The original of this form shall be delivered to the Coast Guard inspector.

(b) Data forms for those parts of a nuclear pressure vessel requiring inspection, which are furnished by other than the shop of the manufacturer responsible for the completed unit, shall be executed in triplicate by the manufacturer of the parts. The original and one copy shall be delivered to the Coast Guard inspector who shall forward one copy of the report to the Officer in Charge, Marine Inspection having cognizance over the final assembly. These partial data reports, together with the final inspection and tests, shall be the final Coast Guard inspector's authority to apply the Coast Guard symbol and number. A final data report shall be executed by the manufacturer or assembler who completes the final assembly and tests.

43. Section 55.10-40 is revised to read as follows:

**§ 55.10-40 Overpressure protection (modifies N-910 through N-914).**

(a) The Overpressure Protection Report required by N-910.3 shall be submitted to the Commandant for approval.

(b) (Modifies N-911.1 and N-911.4.) Automatic spring loaded safety valves, and those valves equivalent to automatic

spring loaded safety valves as described in N-911.1 and N-911.4, shall comply with Subpart 162.001 of this chapter in addition to N-911.1 and N-911.4.

(c) (Modifies N-911.2, N-911.3, and N-911.5.) The use of self-energized pilot actuated pressure relief valves, power activated pressure relief valves, and anti-simmer type safety valves not equivalent to automatic spring loaded safety valves shall be described in the Overpressure Protection Report and shall be specifically approved by the Commandant. Marking of approved valves shall be as described in N-913 plus the letters "USCG".

**Subpart 55.15—Class B Vessels**

44. Section 55.15-1 is revised to read as follows:

**§ 55.15-1 General (modifies N-1110 through N-1711.3).**

(a) Class B vessels shall meet the requirements of articles 11 through 17 of section III of the ASME Code except as noted otherwise in this subpart.

45. Section 55.15-5(c) is revised to read as follows:

**§ 55.15-5 Welding and fabrication.**

(c) *Charpy V-notch testing.* When Charpy V-notch testing is required by N-1211 of the ASME Code such testing shall be required for both procedure qualification and for regular production welding as described in § 55.10-20(b)(2). The test temperature for procedure and production toughness testing shall be as required by N-1211.

46. Section 55.15-10 is revised to read as follows:

**§ 55.10 Inspection, stamping, and reports (modifies N-1341, N-1342, N-1610).**

(a) Inspection will be conducted by a marine inspector in lieu of the requirements of N-1510.

(b) The hydrostatic or pneumatic tests shall also comply with § 54.10-10 or § 54.10-15 of this subchapter, respectively.

(c) In addition to the requirements of N-1610, the requirements of §§ 55.10-30 and 55.10-35 shall be followed for marking, stamping, and data reports.

(1) The letter "B" shall be used for class designation.

**Subpart 55.20—Class C Vessels**

47. Section 55.20-1 is amended by revising the heading and paragraph (b) to read as follows:

**§ 55.20-1 General (modifies N-2110 through N-2116).**

(b) (Modifies N-2111.) Class C vessels shall be designed, fabricated, inspected, tested, and marked in accordance with the appropriate standards of Part 54 of this chapter. The requirements of N-2112 through N-2115 shall apply in lieu of the joint design and nondestructive testing requirements of Table 54.01-5(b) of this chapter.

48. Section 55.20-5 is amended by revoking paragraphs (b), (c), and (d) and as amended reads as follows:

**§ 55.20-5 Weld production testing.**

Weld production testing in accordance with Subpart 57.06 of this chapter is required. Class C vessels which would otherwise fit the Class III category shall receive the production testing specified for a Class II vessel.

49. Section 55.20-10 is revoked.

50. Section 55.20-15 is revoked.

51. Section 55.20-20 is amended by revoking paragraph (b) and as amended reads as follows:

**§ 55.20-20 Stamping.**

(Replaces N-2116.) In lieu of the stamping required by N-2116 of the ASME Code, vessels constructed in accordance with this subpart shall be stamped as required by § 54.10-20 of this chapter with the addition of the letters "NC" after the class.

(R.S. 4405, as amended, 4462, as amended, sec. 6(b) (1), 80 Stat. 937; 46 U.S.C. 375, 416, 49 U.S.C. 1655(b) (1); 49 CFR 1.46(b))

**PART 56—PIPING SYSTEMS AND APPURTENANCES**

52. In the following sections and tables of Part 56 the name "United States of America Standards Institute, Inc." is changed to "American National Standards Institute", wherever it appears: The note to Subpart 56.01, the heading of §§ 56.01-5, 56.01-5(a), 56.01-5(c), and Table 56.60-1(b).

53. In the following sections of Part 56, the abbreviation "USASI" is changed to "ANSI" wherever it appears: The note to Subpart 56.01, the heading of §§ 56.01-5, 56.01-5(a), 56.01-5(c), 56.01-10 (d) (1).

54. In the following sections and tables of Part 56, the term "USA Standard" is changed to "American National Standard" wherever it appears: The note to subpart 56.01, §§ 56.01-5(b), 56.07-5(c), 56.07-5(e), 56.25-20(b), 56.25-20(c), 56.25-20(d), 56.30-10(b), 56.30-10(b)(2), 56.30-10(b)(5), 56.30-10(b)(6), and 56.30-25(d), Table 56.60-1(a) and footnotes, and Table 56.60-1(b).

55. In the following sections and tables of Part 56, the standards bearing the prefix "USAS—" are amended by changing the prefix to "ANSI—" wherever they appear: The note to Subpart 56.01, § 56.01-5(a), Table 56.01-5(a), §§ 56.01-5(b), 56.07-5(a), 56.07-10(a) (1), 56.07-10(d), 56.07-10(e), 56.07-10(f), 56.10-1(b), 56.10-5(c) (5), 56.25-5(a), 56.25-7(a), 56.25-20(a), 56.25-20(b), 56.25-20(c), 56.30-1(a), 56.30-5(b) (3), 56.30-5(c) (1), 56.30-5(c) (3), 56.30-5(d), 56.30-10(b) (3), 56.30-10(b) (4), 56.30-20(b), 56.30-20(d), 56.30-25(a), 56.30-25(c) (1), 56.30-27(a), 56.35-1(b), 56.35-35(a), 56.50-1, 56.50-10(a), 56.50-15(b), 56.50-40(a) (1), 56.50-65(a), 56.50-70(a) (2), 56.50-97(a), 56.60-1(a) (1), and 56.60-1(a) (2), Table 56.60-1(a), including the note and footnotes, Table 56.60-2(a), §§ 56.60-10(a), 56.60-15(a) (1), 56.60-15(a) (3), 56.65-1(a), 56.70-10(a) (1) (ii), 56.70-10(b), 56.70-15(c), 56.70-15(d) (1), 56.70-15(e) (2), 56.70-15(g)



(1), 56.70-15(g)(2), 56.70-15(g)(3), 56.70-15(g)(4), 56.80-5, 56.80-15(d), 56.95-1(a), 56.95-1(b), and 56.97-1(a).

### Subpart 56.01—General

56. Section 56.01-5 is amended by revising paragraph (c) to read as follows:

§ 56.01-5 Adoption of ANSI (American National Standards Institute) Code B31.1 for pressure and power piping, and other standards.

(c) As stated in § 50.15-10 of this chapter, the standards of the ANSI (American National Standards Institute) specifically referred to in this part shall be the governing requirements for the subject matters covered unless specifically limited, modified or replaced by other regulations in this subchapter. See § 56.60-1(b) for the other adopted commercial standards applicable to piping systems which also form a part of this subchapter.

57. Section 56.01-6 is amended by revising paragraphs (c)(2)(i) and (ii) to read as follows:

§ 56.01-6 Adoption of other standards and specifications.

(c) \* \* \*

(i) ASTM A-53, furnace welded pipe, shall not be used for flammable or combustible liquids in machinery spaces (see § 56.10-5(b)).

(ii) ASTM A-72, welded pipe, shall not be used for flammable or combustible liquids in machinery spaces (see § 56.10-5(b)).

### Subpart 56.04—Piping Classification

58. Section 56.04-20 is revised to read as follows:

§ 56.04-20 Nuclear piping.

(a) Nuclear piping, including pumps and line valves, is that piping designed to contain a fluid the loss of which from the system could result in a radiation hazard either to the vessel personnel or to the general public.

(b) Three classifications of piping are established: I-N, II-N, III-N. The specific requirements and classification criteria will be published at a later date, but are expected to follow ANSI B31.7 modified as found to be necessary for marine service. Prior to such action, submissions may be made to the Commandant for review and individual approval.

(c) Nuclear pump and line valve requirements and classifications will be published at a later date but are expected to follow the ASME Code for Pumps and Valves for Nuclear Power modified as found necessary for marine service. Prior to such action, submissions may be made to the Commandant for review and individual approval.

### Subpart 56.15—Fittings, Bends and Intersections

59. Section 56.15-1(c) is revised to read as follows:

§ 56.15-1 Fittings.

(c) Nonstandard special purpose fittings shall meet the requirements of § 56.30-40 or § 56.35-10, as appropriate.

### Subpart 56.25—Pipe Flanges, Blanks, Flange Facings, Gaskets, and Bolting

60. Section 56.25-5 is amended by changing in the first sentence of paragraph (a) the designation "UA-47" to "Appendix II, Part A and applicable portions of UA-47".

### Subpart 56.50—Design Requirements Pertaining to Specific Systems

61. Section 56.50-1(b)(1) is amended by deleting in the third sentence the word "(nodular)".

62. Section 56.50-20(d) is revised to read as follows:

§ 56.50-20 Pressure relief piping.

(d) Reference. See also § 56.07-10 (a) and (b) for specific requirements.

63. Section 56.50-50 is amended by changing in the first sentence of paragraph (k) the word "are" to "is".

64. Sections 56.50-60(d)(1), 56.50-60(d)(2), 56.50-80(h), and 56.50-95(f) are amended by changing the word "nodular" to "ductile".

65. Table 56.50-70(a) of § 56.50-70 is amended by changing the first entry reading " $\frac{1}{8}$ ,  $\frac{3}{16}$ ,  $\frac{1}{4}$ " to " $\frac{1}{8}$ ,  $\frac{3}{16}$ ,  $\frac{1}{4}$ " #20 0.035" to " $\frac{1}{8}$ ,  $\frac{3}{16}$ ,  $\frac{1}{4}$ " #21 0.032".

### Subpart 56.60—Materials

66. Table 56.60-1(a) is amended as follows:

(1) The word "nodular" is changed to "ductile" wherever it appears.

(2) The first ASTM specification for "Tube, welded" is revised to read as follows: "A 178 (Grades A and C only) ERW boiler tubes PG 23.1, Sec. I, ASME Code ("Grade A")".

(3) Under the heading "Nonferrous Materials", the second ASTM specification for "Tube, seamless" is revised to read as follows: "B 75 Copper UNF 23, Sec. VIII, ASME Code ("B")".

(4) Under the heading "Nonferrous Materials", the ASTM specification for "Welding fittings" is revised to read as follows: "B 361 Wrought aluminum welding fittings Shall meet ANSI Standards".

67. Table 56.60-1(b) is amended by revising the first and second introductory texts to read as follows:

Table 56.60-1(b)—Adopted Standards Applicable to Piping Systems (modifies Table 126.1).

ANSI Standards (American National Standards Institute), 1430 Broadway, New York, N.Y. 10018.

MSS Standards (Manufacturers' Standardization Society of the Valve and Fittings Industry), 1815 North Fort Myer Drive, Arlington, Va. 22209.

68. Table 56.60-2(a) is amended as follows:

(1) Under the heading "Ferrous Materials", the first ASTM specification for "Bar stock", reading "A 107 (Grades 1010-1030)" See footnote 2 (1), is deleted.

(2) Under the heading "Ferrous Materials", the third ASTM specification for "Bar stock", reading "A 276 Grade 303" See footnote 5 (1), is deleted.

(3) Under the heading "Ferrous Materials", a new ASTM specification for "Bar stock" is added, reading as follows: "A 575 and A 576 (Grades 1010-1030)" See footnote 2 (1).

(4) Under the heading "Nonferrous Materials" the third ASTM specification for "Bar stock" is revised to read as follows:

B124:  
Alloy 377—See footnotes 5 (1) and 9  
Alloy 464—See footnote 8 (1)  
Alloy 655—See footnote 11 (1)  
Alloy 642—See footnote 12 (1)  
Alloy 630—See footnote 13 (1)  
Alloy 485—See footnote 8 (1)

(5) In footnote 16, "§ 56.60-12" is changed to "§ 58.30-17 of this chapter".

69. Section 56.60-10(d) is revised to read as follows:

§ 56.60-10 Cast iron and malleable iron.

(d) The use of cast iron in certain hydraulic fluid power systems is described in § 58.30-15(f) of this chapter.

70. Section 56.60-15 is amended as follows:

(1) In the heading and in paragraph (a), (1) and (3), the word "nodular" is changed to "ductile" wherever it appears.

(2) Paragraph (b) is revised to read as follows:

§ 56.60-15 Ductile iron.

(b) The use of cast iron in certain hydraulic fluid power systems is described in § 58.30-15(f) of this chapter.

71. Section 56.60-25 is amended by changing "Subpart 92.05" to "Subpart 92.07" in the first sentence of paragraph (a)(4), "Subpart 56.95" to "Subpart 56.97" in the second sentence of paragraph (c)(5) and by revising paragraphs (a)(7)(i) and (ii) to read as follows:

§ 56.60-25 Nonmetallic materials.

(a) \* \* \*

(i) The material specifications covering materials fabricated of rigid polyvinylchloride (PVC), shall comply with the following standard specifications issued by the American Society of Testing Materials, subject to the limitations noted in this subpart:

(a) Pipe (PVC).  
ASTM D1785 (Schedule 40, 80, 120).  
ASTM D2241 (Standard Dimension Ratio).  
Type I Grade 1 or 2.  
Type II Grade 1.  
Type IV Grade 1.

(b) Fittings (PVC).



ASTM D2464 (Schedule 80 threaded).  
ASTM D2466 (Schedule 40 socket).  
ASTM D2467 (Schedule 80 socket).  
Type I Grade 1 or 2.  
Type II Grade 1.

(ii) PVC pipe that is to be used for potable water shall bear the seal of approval or NSF mark of the National Sanitation Foundation Testing Laboratory, Incorporated, School of Public Health, University of Michigan, Ann Arbor, Mich. 48103.

#### Subpart 56.85—Heat Treatment of Welds

72. Table 56.85-10 of § 56.85-10 is amended by changing in paragraph (b) of note 3 the word "minimum" to "maximum".

#### Subpart 56.97—Pressure Tests

73. Section 56.97-40 is amended by changing in paragraph (c) "§ 56.97-1(b)" to "§ 56.97-1(d)".

(R.S. 4405, as amended, 4462, as amended, sec. 6(b) (1), 80 Stat. 937; 46 U.S.C. 375, 416, 49 U.S.C. 1655(b) (1); 49 CFR 1.46(b))

### PART 57—WELDING AND BRAZING

#### Subpart 57.02—General Requirements

74. Section 57.02-1 is amended by revoking paragraph (d).

#### Subpart 57.05—Performance Qualifications

75. Section 57.05-1 is revised to read as follows:

##### § 57.05-1 General.

(a) This subpart supplements the various paragraphs in section IX of the Code dealing with Performance Qualifications (see § 57.02-2).

#### Subpart 57.06—Production Tests

76. Section 57.06-1(b) is revised to read as follows:

##### § 57.06-1 Production test plate requirements.

(b) Main power boilers and Class A nuclear vessels shall meet the test plate requirements for Class I pressure vessels. Class B nuclear vessels shall meet the test plate requirements for Class II-L pressure vessels. Class C nuclear vessels shall meet the test plate requirements for Class I or Class II pressure vessels, depending on their design pressure and temperature (see § 55.20-5 of this chapter).

77. Section 57.06-4 is amended by revising Figure 57.06-4(d) (1) to read as follows:

DISCARD	THIS PIECE
FREE BEND	SPECIMEN
REDUCED SECTION	TENSION TEST SPECIMEN
FREE BEND	SPECIMEN
TOUGHNESS TEST OR ALL WELD METAL (IF REQUIRED)	SPECIMEN 1 TENSION SPECIMEN
FREE BEND	SPECIMEN
REDUCED SECTION	TENSION TEST SPECIMEN
FREE BEND	SPECIMEN
DISCARD	THIS PIECE

1 When Charpy V notch impact specimens are required, the test plates shall be no smaller than 2 feet on a side.

(R.S. 4405, as amended, 4462, as amended, sec. 6(b) (1), 80 Stat. 937; 46 U.S.C. 375, 416, 49 U.S.C. 1655(b) (1); 49 CFR 1.46(b))

### PART 58—MAIN AND AUXILIARY MACHINERY AND RELATED SYSTEMS

78. In the following section of Part 58, the standards bearing the prefix "USAS-" are amended by changing the prefix to "ANSI-" wherever they appear: §§ 58.20-5(a), 58.20-20(b), and 58.30-10(e).

79. In the following sections of Part 58, the name "Yacht Safety Bureau (YSB)" is changed to "Marine Department, Underwriters' Laboratories, Inc. (formerly Yacht Safety Bureau)" wherever it appears: Headings of §§ 58.03-30, 58.30-30(a), 58.16-10(a) (1) (ii), 58.50-15(a).

#### Subpart 58.03—Adoption of Standards and Specifications

80. Section 58.03-25 is revised to read as follows:

##### § 58.03-25 American National Standards Institute (ANSI).

(a) The specifications of the American National Standards Institute (see § 50.15-10 of this chapter) referenced in this part are adopted and form a part of this subchapter.

#### Subpart 58.25—Steering Apparatus

81. Section 58.25-55(d) is revised to read as follows:

##### § 58.25-55 Duplicate pilothouse steering gear control systems.

(d) For dual-power hydraulic type steering gears, of such a type that an auxiliary means of steering is not required, one control system shall control only one hydraulic unit and the other control system shall control only the other hydraulic unit.

#### Subpart 58.30—Fluid Power and Control Systems

82. Section 58.30-5(a) is amended by changing in the third sentence, "§ 58.30-15(e)" to "§ 58.30-15(f)".

#### Subpart 58.50—Independent Internal Combustion Engine Fuel Tanks

83. Section 58.50-10 is amended by redesignating paragraph (c) (2) as paragraph (c) (3) and adding a new paragraph (c) (2) to read as follows:

##### § 58.50-10 Diesel fuel tanks.

(c) (2) After installation of the fuel tank on a vessel the complete installation shall be tested in the presence of a marine inspector to a head not less than that to which the tank may be subjected in service. Fuel may be used as a testing medium.

(R.S. 4405, as amended, 4462, as amended, sec. 6(b) (1), 80 Stat. 937; 46 U.S.C. 375, 416, 49 U.S.C. 1655(b) (1); 49 CFR 1.46(b))

### PART 61—PERIODIC TESTS AND INSPECTIONS

#### Subpart 61.05—Tests and Inspections of Boilers

84. Section 61.05-15 is amended by revising paragraph (a) and (b) to read as follows:

##### § 61.05-15 Boiler mountings and attachments.

(a) All valves shall be opened up and examined by the marine inspector after each 4 years of service.

(b) All boiler mounting studs or bolts shall be examined after each 8 years of service. Boiler mounting studs or bolts shall be removed for examination on those mountings that are required to be removed.

#### Subpart 61.10—Tests and Inspections of Pressure Vessels

85. Section 61.10-1(a) is revised to read as follows:

##### § 61.10-1 Scope.

(a) All pressure vessels aboard ships and barges are subject to periodic inspections.

86. Section 61.10-5(f) is revised to read as follows:

##### § 61.10-5 Periodic inspection.

(f) Compressed gas or hazardous liquid pressure vessel tests. Cargo tanks of pressure vessel configuration containing liquefied compressed gases or hazardous liquids shall be inspected and



tested as required by the applicable regulations published in Subchapter D, Subchapter I, or Subchapter N of this chapter.

(R.S. 4405, as amended, 4462, as amended, sec. 6(b) (1), 80 Stat. 937; 46 U.S.C. 375, 416, 49 U.S.C. 1655(b) (1); 49 CFR 1.46(b))

# **PART 63—CONTROL SYSTEMS FOR AUTOMATIC AUXILIARY HEATING EQUIPMENT**

## **Subpart 63.15—Electric Storage Tank Hot Water Supply Boilers (Heaters)**

87. Section 63.15-10(a) is revised to read as follows:

### **§ 63.15-10 Construction.**

(a) The storage tank shall be constructed in accordance with the applicable requirements of Part 52 or Part 53 of this chapter. See § 53.01-10(c) of this chapter for possible exception.

(R.S. 4405, as amended, 4462, as amended, sec. 6(b) (1), 80 Stat. 937; 46 U.S.C. 375, 416, 49 U.S.C. 1655(b) (1); 49 CFR 1.46(b))

## **SUBCHAPTER H—PASSENGER VESSELS**

# **PART 70—GENERAL PROVISIONS**

## **Subpart 70.05—Applications**

88. Subpart 70.05 is amended by adding § 70.05-30 to follow § 70.05-25 and reading as follows:

### **§ 70.05-30 Combustible liquid cargo in bulk.**

(a) Vessels inspected and certificated under this subchapter may carry limited quantities of combustible liquid cargo in bulk in the grades indicated, provided the certificate of inspection is endorsed to permit such carriage:

(1) Grade E in integral or in approved portable tanks of the type described in Subpart 98.35 of this chapter.

(2) Grade D in portable tanks in accordance with Part 146 of this chapter.

(R.S. 4405, as amended, 4462, as amended, 4417a, as amended, 4472, as amended; sec. 6(b) (1), 80 Stat. 937; 46 U.S.C. 375, 416, 391a, 170, 49 U.S.C. 1655(b) (1); 49 CFR 1.46(b))

# **PART 77—VESSEL CONTROL AND MISCELLANEOUS SYSTEMS AND EQUIPMENT**

## **Subpart 77.15—Radio Direction Finder**

89. Section 77.15-1 is revised to read as follows:

### **§ 77.15-1 When required.**

(a) All mechanically propelled vessels of 1,600 gross tons and over, in ocean service or on an international voyage, shall be fitted with a radio direction finder. Details of the installation shall be as required by the statutes and regulations under the jurisdiction of the Federal Communications Commission.

90. Section 77.15-5 is revoked.

91. Section 77.15-90 is revoked.

(R.S. 4405, as amended, 4462 as amended, sec. 6(b) (1), 80 Stat. 937; 46 U.S.C. 375, 416, 49 U.S.C. 1655(b) (1); 49 CFR 1.46(b))

## **SUBCHAPTER I—CARGO AND MISCELLANEOUS VESSELS**

# **PART 90—GENERAL PROVISIONS**

## **Subpart 90.05—Application**

92. Section 90.05-35 *Application to vessels concerning nuclear energy*, is redesignated § 90.05-40.

93. Subpart 90.05 is amended by adding § 90.05-35 to precede the redesignated § 90.05-40 and reading as follows:

### **§ 90.05-35 Flammable and combustible liquid cargo in bulk.**

(a) Vessels inspected and certificated under this subchapter may carry limited quantities of flammable and combustible liquid cargo in bulk in the grades indicated, provided the Certificate of Inspection is endorsed to permit such carriage:

(1) Cargo vessels.

(i) Grades D and E in integral tanks or in approved portable tanks in accordance with Subpart 98.35 of this subchapter.

(ii) Grades A and lower in portable tanks in accordance with Part 146 of this chapter.

(iii) Grades A and lower in portable tanks of special design when approved and authorized by the Commandant.

(2) Miscellaneous vessels, such as cable, salvage, pile driving and oil drilling rig vessels.

(i) Grades B and lower in fixed independent or integral tanks when specifically authorized by the Commandant.

(R.S. 4405, as amended, 4462, as amended, 4417a, as amended, 4472, as amended, sec. 6(b) (1), 80 Stat. 937; 46 U.S.C. 375, 416, 391a, 170, 49 U.S.C. 1655(b) (1); 49 CFR 1.46(b))

# **PART 96—VESSEL CONTROL AND MISCELLANEOUS SYSTEMS AND EQUIPMENT**

## **Subpart 96.15—Radio Direction Finder**

94. Section 96.15-1 is revised to read as follows:

### **§ 96.15-1 When required.**

(a) All mechanically propelled vessels of 1,600 gross tons and over, in ocean service or on an international voyage, shall be fitted with a radio direction finder. Details of the installation shall be as required by the statutes and regulations under the jurisdiction of the Federal Communications Commission.

95. Section 96.15-5 is revoked.

96. Section 96.15-90 is revoked.

(R.S. 4405, as amended, 4462, as amended, sec. 6(b) (1), 80 Stat. 937; 46 U.S.C. 375, 416, 49 U.S.C. 1655(b) (1); 49 CFR 1.46(b))

## **SUBCHAPTER N—DANGEROUS CARGOES**

# **PART 146—TRANSPORTATION OR STORAGE OF EXPLOSIVES OR OTHER DANGEROUS ARTICLES OR SUBSTANCES, AND COMBUSTIBLE LIQUIDS ON BOARD VESSELS**

## **Subpart 146.04—List of Explosives or Other Dangerous Articles Containing the Shipping Name or Description of Articles Subject to the Regulations in This Subchapter**

97. Section 146.04-5 is amended as follows:

In column 1 add (in proper alphabetical sequence) the entry, "Smokeless powder for small arms (100 pounds or less) (when special packaging is provided)".

In column 2 add for this entry "Inf. S".

In column 3 add for the entry, "Yellow".

## **Subpart 146.20—Detailed Regulations Governing Explosives**

98. Section 146.20-9(b) is amended by adding the words "(see note 1)" after the word "arms" in line 22, and by adding a note 1 to read as follows:

### **§ 146.20-9 Class B explosives.**

(b) . . . .

NOTE 1: Smokeless powder for small arms in quantities not exceeding 100 pounds net weight in one vehicle, container or other packaging authorized by § 146.22-3(a) (except shipments by, for, or to the Departments of the Army, Navy, or Air Force of the U.S. Government) shall be classed as a flammable solid for purposes of transportation when packaged in accordance with § 146.22-3(a). To be classed as a flammable solid, smokeless powder for small arms shall be limited to not more than 100 pounds in one hold or vehicular deck irrespective of the number of vehicles or containers.

## **Subpart 146.22—Detailed Regulations Governing Inflammable Solids and Oxidizing Materials**

99. Subpart 146.22 is amended by adding a new section, § 146.22-3, to read as follows:

### **§ 146.22-3 Smokeless powder for small arms.**

(a) Smokeless powder for small arms in quantities not exceeding 100 pounds net weight in one vehicle, container or other packaging authorized by this section shall be classed as a flammable solid for purposes of transportation when approved for such classification by the Bureau of Explosives. To be classed as a flammable solid, smokeless powder for small arms shall be limited to not more than 100 pounds in one hold or vehicular deck irrespective of the number of containers or vehicles. Maximum quantity in any inside packaging must not exceed 8 pounds and inside packaging must be arranged and protected so as to prevent simultaneous ignition of the contents. The complete package must be a type approved by the Bureau of Explosives. Each



outside shipping package shall be labeled as prescribed in § 146.05-15(g) (2).

100. Section 146.22-100 (Table E—Classification: Inflammable solids) is amended as follows:

a—In column 1 add (in proper alphabetical sequence), the entry "Smokeless powder for small arms (100 pounds or less)."

b—In column 2 add for the entry "Smokeless powder for small arms (Class B and Class C explosives) in quantities not exceeding 100 pounds in one hold, vehicle, or container. See § 146.22-3."

c—In column 3 add for this entry, "Yellow".

d—In column 4 add for this entry, "Stowage:" "On deck under cover." "Tween decks readily accessible." "Under deck away from heat." "Outside packaging: Authorized packaging (see § 146.22-3)."

e—In column 5 add for this entry, "Stowage:" "On deck under cover." "Tween decks readily accessible." "Out-aging: Authorized packaging (see § 146.22-3)."

f—In column 6 add for this entry, "Ferry stowage (AA)." "Outside packaging: Authorized packaging (see § 146.22-3)."

g—In column 7 add for this entry, "Ferry stowage (BB)." "Outside packaging: Authorized packaging (see § 146.22-3)."

#### Subpart 146.24—Detailed Regulations Governing Compressed Gases

101. Section 146.24-1 is amended by revising the introductory paragraph to read as follows:

§ 146.24-21 Exemption for foodstuffs, soap, cosmetics, beverages, biologicals, electronic tubes, and audible fire alarm systems.

Compressed gases, except poisonous gases as defined in the regulations in

§ 146.22-5, and except those for which no exemptions are provided as indicated in § 146.24-20(e), are exempt from specification packaging, marking other than true shipping name of contents, labeling, and stowage requirements when packaged in accordance with one of the following paragraphs unless otherwise provided:

102. Section 146.24-25(a) is revised to read as follows:

§ 146.24-25 Stowage on board vessels.

(a) All compressed gases permitted for transportation on board vessels and not exempted from stowage requirements by § 146.24-21, when taken on board a vessel shall be stowed in accordance with the provision applying to the particular character of vessel as shown in § 146.24-100 (Table G—Classification: Compressed gases), and the detailed requirements for stowage shown therein.

103. Section 146.24-100 (Table G—Classification: Compressed gases) is amended for the entry "Compressed gases, N.O.S." as follows:

a—Column 2 is revised to read: *Flammable gas or nonflammable gas. See §§ 146.24-20, 146.24-21, and 146.24-22 for exemptions.*

b—Columns 5, 6, and 7 are revised to read: Not permitted. See Note 1.

c—Across columns 5, 6, and 7, a note is added to read:

NOTE 1: Nontoxic, nonflammable compressed gases which are exempted from stowage requirements by § 146.24-21 are permitted.

(R.S. 4405, as amended, 4462, as amended, 4472, as amended, sec. 6(b) (1), 80 Stat. 937; 46 U.S.C. 375, 416, 170, 49 U.S.C. 1655(b) (1); 49 CFR 1.46(b))

#### SUBCHAPTER R—NAUTICAL SCHOOLS

#### PART 167—PUBLIC NAUTICAL SCHOOL SHIPS

#### Subpart 167.01—General Provisions

106. Section 167.01-5 is amended by adding a new paragraph (c) to read as follows:

§ 167.01-5 Application of regulations.

(c) Documented nautical school ships of 500 gross tons or more, on international voyages, shall comply with the standards of the International Convention for Safety of Life at Sea, 1960, for cargo vessels.

#### Subpart 167.60—Certificate of Inspection

107. Section 167.60-1 is amended by adding a new paragraph (d) to read as follows:

§ 167.60-1 Issuance by Officer in Charge, Marine Inspection.

(d) Documented vessels of 500 gross tons or more, certificated for ocean or coastwise service, which do not comply with the requirements of SOLAS 60 for cargo vessels shall have their certificate of inspection endorsed "Domestic Voyages Only."

(R.S. 4405, as amended, 4462, as amended, sec. 6(b) (1), 80 Stat. 937; 46 U.S.C. 375, 416, 49 U.S.C. 1655(b) (1); 49 CFR 1.46(b))

Dated: June 5, 1970.

C. R. BENDER,  
Admiral, U.S. Coast Guard  
Commandant.

[F.R. Doc. 70-7254; Filed, June 16, 1970; 8:45 a.m.]