

## § 77.03-1

(b) The material approved for incorporation by reference in this part, and the sections affected is:

*American Society for Testing and Materials  
(ASTM)*

100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

ASTM F 1014-92, Standard Specification for Flashlights on Vessels—77.35-5

[CGD 82-042, 53 FR 17704, May 18, 1988, as amended by CGD 95-072, 60 FR 50463, Sept. 29, 1995; CGD 96-041, 61 FR 50729, Sept. 27, 1996; CGD 97-057, 62 FR 51045, Sept. 30, 1997; USCG-1999-5151, 64 FR 67181, Dec. 1, 1999; USCG-2009-0702, 74 FR 49231, Sept. 25, 2009; USCG-2012-0832, 77 FR 59779, Oct. 1, 2012; USCG-2013-0671, 78 FR 60150, Sept. 30, 2013]

### Subpart 77.03—Marine Engineering Systems

#### § 77.03-1 Installation and details.

(a) The installation of all systems of a marine engineering nature, together with the details of design, construction, and installation, shall be in accordance with the requirements of subchapter F (Marine Engineering) of this chapter. Systems of this type include the following:

Steering systems.  
Power for going astern.  
Bilge and ballast systems.  
Tank vent and sounding systems.  
Overboard discharges and shell connections.  
Pipe and pressure systems.

(b) [Reserved]

### Subpart 77.05—Electrical Engineering and Interior Communication Systems

#### § 77.05-1 Installation and details.

(a) The installation of all systems of an electrical engineering or interior communications nature, together with the details of design, construction, and installation, shall be in accordance with the requirements of subchapter J (Electrical Engineering) of this chapter. Systems of this type include the following:

Ship's service generating systems.  
Ship's service power distribution systems.  
Ship's lighting systems.  
Electric propulsion and propulsion control systems.  
Emergency lighting and power systems.

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Electric lifeboat winch systems.  
Electric steering gear and steering control systems.  
Fire detecting and alarm systems  
Sound powered telephone and voice tube systems.  
Engine order telegraph systems.  
Rudder angle indicator systems.  
Refrigerated spaces alarm systems.  
Navigation lights systems.  
Daylight signaling lights.  
Miscellaneous machinery alarms and controls.  
General alarm systems.

(b) Electrical equipment installed in spaces "specially suitable for vehicles" shall be in accordance with subchapter J (Electrical Engineering) of this chapter.

[CGFR 65-50, 30 FR 16953, Dec. 30, 1965, as amended by CGFR 66-33, 31 FR 15283, Dec. 6, 1966; CGFR 68-32, 33 FR 5716, Apr. 12, 1968; CGD 74-125A, 47 FR 15231, Apr. 8, 1982]

### Subpart 77.06—Lifesaving Appliances and Arrangements

#### § 77.06-1 Installation.

The installation of all lifesaving appliances and arrangements must be in accordance with the requirements of subchapter W (Lifesaving Appliances and Arrangements) of this chapter.

[CGD 84-069, 61 FR 25288, May 20, 1996]

### Subpart 77.07—Anchors, Chains, and Hawsers

#### § 77.07-1 Application.

(a) The provisions of this subpart, with the exception of § 77.07-90, shall apply to all vessels contracted for on or after November 19, 1952. Vessels contracted for prior to November 19, 1952, shall meet the requirements of § 77.07-90.

(b) [Reserved]

#### § 77.07-5 Ocean, coastwise, or Great Lakes service.

(a) Vessels in ocean, coastwise, or Great Lakes service shall be fitted with anchors, chains, and hawsers in general agreement with the standards established by the American Bureau of Shipping, see subpart 70.35 of this subchapter.

(b) In addition to the provisions of paragraph (a) of this section, the following requirements and alternatives also apply:

(1) The American Bureau of Shipping rules relating to anchor equipment are mandatory, not a guide.

(2) Vessels under 200 feet (61 meters) in length and with an American Bureau of Shipping equipment number of less than 150 may be equipped with either—

(i) One anchor of the tabular weight and one-half the tabulated length of anchor chain listed in the applicable standard, or

(ii) Two anchors of one-half the tabular weight with the total length of anchor chain listed in the applicable standard provided both anchors are in a position that allows for ready use at all times and the windlass is capable of heaving in either anchor.

(c) Standards of other recognized classification societies may be used, in lieu of those established by the American Bureau of Shipping, upon approval by the Commandant.

[CGFR 65-50, 30 FR 16953, Dec. 30, 1965, as amended by CGD 87-013, 53 FR 20624, June 6, 1988]

**§ 77.07-10 Lakes, bays, and sounds, or river service.**

(a) Vessels in lakes, bays, and sounds, or river service shall be fitted with such ground tackle and hawsers as deemed necessary by the Officer in Charge, Marine Inspection, depending upon the size of the vessel and the waters on which it operates.

(b) [Reserved]

**§ 77.07-90 Vessels contracted for prior to November 19, 1952.**

(a) Vessels contracted for prior to November 19, 1952, shall meet the following requirements:

(1) Installations previously accepted or approved shall be considered satisfactory for the same service so long as they are maintained in good condition to the satisfaction of the Officer in Charge, Marine Inspection. If the service of the vessel is changed, the suitability of the equipment will be established by the Officer in Charge, Marine Inspection.

(2) [Reserved]

(b) [Reserved]

**Subpart 77.09—Radar**

**§ 77.09-1 When required.**

All mechanically propelled vessels of 1,600 gross tons and over in ocean or coastwise service must be fitted with a marine radar system for surface navigation. Facilities for plotting radar readings must be provided on the bridge.

[CGD 75-074, 42 FR 5963, Jan. 31, 1977]

**Subpart 77.11—Magnetic Compass and Gyrocompass**

**§ 77.11-1 When required.**

(a) All mechanically propelled vessels in ocean, coastwise or Great Lakes service must be fitted with a magnetic compass.

(b) All mechanically propelled vessels 1,600 gross tons and over in ocean or coastwise service must be fitted with a gyrocompass in addition to the magnetic compass.

(c) Each vessel must have an illuminated repeater for the gyrocompass required under paragraph (b) of this section, that is at the main steering stand unless the gyrocompass is illuminated and is at the main steering stand.

[CGD 75-074, 42 FR 5963, Jan. 31 1977]

**Subpart 77.27—Sounding Equipment**

**§ 77.27-1 When required.**

All mechanically propelled vessels of 500 gross tons and over to ocean or coastwise service, and all mechanically propelled vessels of 500 gross tons and over in Great Lakes service and certificated for service on the River St. Lawrence eastward of the lower exit of the St. Lambert Lock at Montreal, Canada, must be fitted with an efficient electronic deep-sea sounding apparatus.

[CGD 95-027, 61 FR 26004, May 23, 1996]

**Subpart 77.30—Emergency Equipment**

**§ 77.30-1 Application.**

This subpart, except § 77.30-90, applies to each vessel that is not on an international voyage and is contracted for