

§ 58.01-1

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SOURCE: CGFR 68-82, 33 FR 18878, Dec. 18, 1968, unless otherwise noted.

Subpart 58.01—General Requirements

§ 58.01-1 Scope.

The regulations in this part contain requirements for the design and construction of main and auxiliary machinery installed on vessels.

§ 58.01-5 Applicable standards.

The applicable standards established by the American Bureau of Shipping or other recognized classification society, may be used as the standard for the design, construction, and testing of main and auxiliary machinery except as modified in this subchapter.

§ 58.01-10 Fuel oil.

(a) The following limits apply to the use of oil as fuel:

(1) Except as otherwise permitted by this section, no fuel oil with a flashpoint of less than 60 °C (140 °F) may be used.

(2) Except as otherwise permitted by § 58.50-1(b), fuel oil with a flashpoint of not less than 43 °C (110 °F) may be used in emergency generators.

(3) Subject to such additional precautions as the Commanding Officer, Marine Safety Center, considers necessary, and provided that the ambient temperature of the space in which such fuel oil is stored or used does not rise to within 10 °C (50 °F) below the flashpoint of the fuel oil, fuel oil having a flashpoint of less than 60 °C (140 °F) but not less than 43 °C (110 °F) may be used in general.

(4) In a cargo vessel, fuel having a lower flashpoint than otherwise specified in this section—for example, crude oil—may be used provided that such fuel is not stored in any machinery space and that the Commanding Officer, Marine Safety Center, approves the complete installation.

(b) The flashpoint of oil must be determined by the Pensky-Martens Closed Tester, ASTM D 93 (incorporated by reference, see § 58.03-1).

[CGD 83-043, 60 FR 24775, May 10, 1995, as amended by USCG-1999-5151, 64 FR 67180, Dec. 1, 1999]

§ 58.01-20 Machinery guards.

Gears, couplings, flywheels and all machinery capable of injuring personnel shall be provided with adequate covers or guards.

§ 58.01-25 Means of stopping machinery.

Machinery driving forced-draft and induced-draft fans, fuel-oil transfer pumps, fuel-oil unit and service pumps, and similar fuel-oil pumps must be fitted with remote controls from a readily accessible position outside the space concerned so that the fans or pumps may be stopped in case of fire in the compartment in which they are located. The controls must be suitably protected against accidental operation and against tampering and must be suitably marked.

[CGD 83-043, 60 FR 24775, May 10, 1995]

§ 58.01-30 Trial-trip observance.

The operation of main and auxiliary engines, boilers, steering gear, and auxiliaries shall be observed on the trial trip of each new vessel and all deficiencies which affect the safety of the

vessel shall be corrected to the satisfaction of the Officer in Charge, Marine Inspection.

§ 58.01-35 Main propulsion auxiliary machinery.

Auxiliary machinery vital to the main propulsion system must be provided in duplicate unless the system served is provided in independent duplicate, or otherwise provides continued or restored propulsion capability in the event of a failure or malfunction of any single auxiliary component.

NOTE: Partial reduction of normal propulsion capability as a result of malfunction or failure is acceptable if the reduced capability is not below that necessary for the vessel to run ahead at 7 knots or half speed, whichever is less, and is adequate to maintain control of the ship.

[CGD 81-030, 53 FR 17837, May 18, 1988]

§ 58.01-40 Machinery, angles of inclination.

(a) Propulsion machinery and all auxiliary machinery essential to the propulsion and safety of the vessel must be designed to operate when the vessel is upright, when the vessel is inclined under static conditions at any angle of list up to and including 15°, and when the vessel is inclined under dynamic conditions (rolling) at any angle of list up to and including 22.5° and, simultaneously, at any angle of trim (pitching) up to and including 7.5° by bow or stern.

(b) Deviations from these angles of inclination may be permitted by the Commanding Officer, Marine Safety Center, considering the type, size, and service of the vessel.

[CGD 83-043, 60 FR 24775, May 10, 1995]

§ 58.01-45 Machinery space, ventilation.

Each machinery space must be ventilated to ensure that, when machinery or boilers are operating at full power in all weather including heavy weather, an adequate supply of air is maintained for the operation of the machinery and for the safety, efficiency, and comfort of the crew.

[CGD 83-043, 60 FR 24775, May 10, 1995]

§ 58.01-50 Machinery space, noise.

(a) Each machinery space must be designed to minimize the exposure of personnel to noise in accordance with IMO Assembly Resolution A.468(XII), Code on Noise Levels on Board Ships, 1981. No person may encounter a 24-hour effective noise level greater than 82 dB(A) when noise is measured using a sound-level meter and an A-weighting filter.

(b) Except as allowed by paragraph (c) of this section, no machinery space may exceed the following noise levels:

(1) Machinery control room—75 dB(A)

(2) Manned machinery space—90 dB(A)

(3) Unmanned machinery space—110 dB(A)

(4) Periodically unattended machinery space—110 dB(A)

(5) Workshop—85 dB(A)

(6) Any other work space around machinery—90 dB(A)

(c) If adding a source of noise would cause a machinery space to exceed the noise level permitted by paragraph (b) of this section, the new source must be suitably insulated or isolated so that the space does not exceed that noise level. If the space is manned, a refuge from noise must be provided within the space.

(d) Ear protection must be provided for any person entering any space with a noise level greater than 85 dB(A).

(e) Each entrance to a machinery space with a noise level greater than 85 dB(A) must have a warning sign stating that each person entering the space must wear ear protection.

[CGD 83-043, 60 FR 24776, May 10, 1995]

§ 58.01-55 Tanks for flammable and combustible oil.

(a) For the purposes of this section, a machinery space of category A is a space that contains any of the following:

(1) Internal-combustion machinery used for main propulsion.

(2) Internal-combustion machinery used for other than main propulsion, whose power output is equal to or greater than 500 HP (375 kw).

(3) Any oil-fired boiler.