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winches designed for use with emergency lifeboats aboard passenger vessels, the speed of lowering shall not be less than 60 feet per minute.

(6) With a pull equal to the working load, the test weight shall be lowered and raised a sufficient number of times so that the combined lowering distance is not less than 500 feet. This test is to determine the efficiency of the lifeboat winch for prolonged service.

(7) With a pull equal to 0.5 times the working load, it shall be demonstrated that the lifeboat winch can be hand operated by hoisting the test weight without undue effort. For gravity davits, it shall be demonstrated that this test weight can be carried easily from a point at which the traveling blocks of the falls are 1 foot below their outboard, two-blocked position, and then up and around the bend of the trackways to the stowed position of the lifeboat.

(8) Where a quick return mechanism is installed it shall be demonstrated that a weight equal to 2.2 times the weight of the empty blocks can be handily retrieved through the regular reeving of the falls at a rate of not less than 40 feet per minute at the drum by one man.

(9) The following test applies to a lifeboat winch used for hoisting an emergency lifeboat of a passenger vessel. With a weight equal to the weight of the emergency lifeboat and its full complement of persons and equipment, it shall be demonstrated that the weight can be hoisted through the regular reeving of the falls at a rate of not less than 20 feet per minute, to the embarkation position.

(10) After the tests noted in paragraphs (b)(2) to (9) of this section have been conducted, the winch shall be completely disassembled and the marine inspector shall ascertain that no undue stress or wear has been incurred.

(c) *Factory testing after approval.* (1) After a design of a lifeboat winch has been approved, subsequent winches of the same design shall be individually tested as described in paragraph (c)(2) of this section.

(2) Each lifeboat winch shall be set up in a manner similar to that described in paragraph (c)(1) of this section. With a pull equal to 1.1 times the

working load, the test weight shall be dropped through a distance of not less than 15 feet, at which time the load shall be stopped by the action of the counterweight alone. This test is to demonstrate the operation of the winch, and if satisfactory, no further test need be required. However, if the inspector is not satisfied with the operation of the winch, a complete test as noted in paragraph (b) of this section may be required.

(d) *Name plate.* (1) A corrosion resistant name plate shall be affixed to each lifeboat winch on which shall be stamped the name of the manufacturer, approval number, maximum working load in pounds pull at the drums, maximum working load in pounds pull per fall type and serial number, together with the Marine Inspection Office identification letters, the date, and the letters U.S.C.G.

[CGFR 49-18, 14 FR 5112, Aug. 17, 1949, as amended by CGFR 58-31, 23 FR 6883, Sept. 6, 1958; CGFR 65-9, 30 FR 11465, Sept. 8, 1965; CGD 72-133R, 37 FR 17039, Aug. 24, 1972; CGD 75-186, 41 FR 10437, Mar. 11, 1976]

§ 160.015-6 Procedure for approval of lifeboat winches.

(a) Before action is taken on any design of lifeboat winch, detail plans covering fully the arrangement and construction of the lifeboat winch, a complete bill of material setting forth the physical properties of the materials used, and strength calculations, shall be submitted to the Commandant through the Commander of the Coast Guard District having jurisdiction over the construction of the lifeboat winch.

(b) If the drawings required in paragraph (a) of this section are satisfactory, the Commander of the Coast Guard District in which the lifeboat winch is to be built, shall be notified in writing when fabrication is to commence. An inspector will be assigned to supervise the construction in accordance with the plans and upon completion, conduct the tests required by § 160.015-5.

(c) At the time that the tests are successfully completed, the manufacturer shall present to the inspector four corrected copies of the plans noted in paragraph (a) of this section, including any corrections, changes, or additions

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which may have been found necessary during construction or testing. If the manufacturer desires more than one set of approved plans, additional copies shall be submitted at that time.

(d) Upon receipt of corrected drawings, material affidavits, and satisfactory test report, the Commandant will issue a certificate of approval. No change shall be made in the design or construction without first receiving permission of the Commandant via the Commander of the Coast Guard District in which the lifeboat winch is built.

[CGFR 49-18, 14 FR 5112, Aug. 17, 1949, as amended by CGFR 58-31, 23 FR 6884, Sept. 6, 1958]

Subpart 160.016—Lamps, Safety, Flame, for Merchant Vessels

SOURCE: CGFR 50-12, 15 FR 3093, May 20, 1950, unless otherwise noted.

§ 160.016-1 Applicable specification.

(a) The following specification of the issue in effect on the date flame safety lamps are manufactured forms a part of this subpart:

(1) Military specification:

MIL-L-1204, Lamps, Safety, Flame.

(b) A copy of the above specification shall be kept on file by the manufacturer together with the approved plan and certificate of approval issued by the Coast Guard.

§ 160.016-2 Requirements.

(a) Flame safety lamps for use on merchant vessels shall comply with the construction requirements of Military Specification MIL-L-1204.

(b) [Reserved]

§ 160.016-4 Marking.

(a) Flame safety lamps shall be permanently and legibly marked with the name and address of the manufacturer and the type or model designation for the lamp.

(b) [Reserved]

§ 160.016-5 Procedure for approval.

(a) *General.* Flame safety lamps are approved for use on merchant vessels only by the Commandant, United

States Coast Guard, Washington, DC 20226. Correspondence relating to the subject matter of this specification shall be addressed to the Commander of the Coast Guard District in which such devices are manufactured.

(b) *Pre-approval sample and plan.* In order to apply for approval of a flame safety lamp for use on merchant vessels, submit one complete sample, together with four copies of an arrangement plan (parts drawings are not required), together with a statement that the lamp meets the construction requirements of Military Specification MIL-L-1204, as amended, to the Commander of the Coast Guard District who will forward same to the Commandant for determination as to its suitability for use on merchant vessels.

Subpart 160.017—Chain Ladder

SOURCE: CGD 74-140, 46 FR 63286, Dec. 31, 1981, unless otherwise noted.

§ 160.017-1 Scope.

(a) This subpart contains standards and approval and production tests for chain ladders used on a merchant vessel to get on and off the vessel in an emergency.

(b) The requirements in this subpart apply to a chain ladder designed for use along a vertical portion of a vessel's hull.

§ 160.017-7 Independent laboratory.

The approval and production tests in this subpart must be conducted by or under the supervision of an independent laboratory accepted by the Coast Guard under subpart 159.010 of this chapter.

§ 160.017-9 Approval procedure.

(a) *General.* A chain ladder is approved by the Coast Guard under the procedures in subpart 159.005 of this chapter.

(b) *Approval testing.* Each approval test must be conducted in accordance with § 160.017-21.