

anchoring or arresting the movement of the barge is ready to do his or her duty.

(2) *Measure 2.* If you are the owner or operator of a tank barge or a vessel towing it and this section applies to you by virtue of paragraph (a) of this section, you must have installed an emergency retrieval system or some other measure acceptable to the Coast Guard, as provided in paragraph (b)(3) of this section. Any such system must meet the following criteria:

(i) *Design.* The system must use an emergency towline with *at least* the same pulling strength as required of the primary towline. The emergency towline must be readily available on either the barge or the vessel towing it. The towing vessel must have on board equipment to regain control of the barge and continue towing (using the emergency towline), without having to place personnel on board the barge.

(ii) *Operation and performance.* The system must use a stowage arrangement that ensures the readiness of the emergency towline and the availability of all retrieval equipment for immediate use in an emergency whenever the barge is being towed astern.

(iii) *Maintenance and inspection.* The owner or operator of the system shall inspect it annually. The inspection must verify that the emergency retrieval system is ready for immediate use, and must include a visual inspection of the equipment that comprises the system in accordance with the manufacturer's recommendations. The inspection must also verify that the system is being maintained in accordance with the manufacturer's recommendations. The inspection need not include actual demonstration of the operation of the equipment or system. Details concerning maintenance of towlines appear in 33 CFR 164.74(a)(3) and Navigation and Vessel Inspection Circular (NVIC) No. 5-92. Our NVICs are available online at <http://www.uscg.mil/hq/g-m/nvic/index.htm>.

(iv) *Training.* Barge-retrieval drills must take place annually, and not more than one month after a master or mate responsible for supervising barge retrieval begins employment on a vessel that tows tank barges.

(A) Each drill must allow every participant to demonstrate the competencies (that is, the knowledge, skills, and abilities) needed to ensure that everyone assigned a duty in barge retrieval is ready to do his or her part to regain control of a drifting barge.

(B) If the drill includes actual operation of a retrieval system, it must be conducted under the supervision of the master or mate responsible for retrieval, and preferably in open waters free from navigational hazards so as to minimize risk to personnel and the environment.

(3) *Measure 3.* If you are the owner or operator of a tank barge or a vessel towing it and this section applies to you by virtue of paragraph (a) of this section, you may use an alternative measure or system fit for retrieving a barge or arresting its movement as a substitute for Measure 2, described in paragraph (b)(2) of this section. Before you use such a measure or system, however, it must receive the approval of the Commandant (G-MSE). It will receive this approval if it provides protection against grounding of the tank vessel comparable to that provided by one of the other two measures described in this section.

[USCG-1998-4443, 65 FR 31811, May 19, 2000]

§ 155.235 Emergency towing capability for oil tankers.

An emergency towing arrangement shall be fitted at both ends on board all oil tankers of not less than 20,000 deadweight tons (dwt), constructed on or after September 30, 1997. For oil tankers constructed before September 30, 1997, such an arrangement shall be fitted at the first scheduled dry-docking, but not later than January 1, 1999. The design and construction of the towing arrangement shall be in accordance with IMO resolution MSC.35(63).

[CGD 95-028, 62 FR 51194, Sept. 30, 1997]

§ 155.240 Damage stability information for oil tankers and offshore oil barges.

(a) Owners or operators of oil tankers and offshore oil barges shall ensure that their vessels have prearranged, prompt access to computerized, shore-based damage stability and residual

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structural strength calculation programs.

(b) Vessel baseline strength and stability characteristics must be pre-entered into such programs and be consistent with the vessel's existing configuration.

(c) Access to the shore-based calculation program must be available 24 hours a day.

(d) At a minimum, the program must facilitate calculation of the following:

(1) Residual hull girder strength based on the reported extent of damage.

(2) Residual stability when the vessel's compartments are breached.

(3) The most favorable off-loading, ballasting, or cargo transfer sequences to improve residual stability, reduce hull girder stresses, and reduce ground-force reaction.

(4) The bending and shear stresses caused by pinnacle loads from grounding or stranding.

[CGD 90-068, 58 FR 67996, Dec. 22, 1993, as amended by USCG-1998-3799, 63 FR 35531, June 30, 1998]

§ 155.245 Damage stability information for inland oil barges.

(a) Owners or operators of inland oil barges shall ensure that the vessel plans necessary to perform salvage, stability, and residual hull strength assessments are maintained at a shore-based location.

(b) Access to the plans must be available 24 hours a day.

[CGD 90-068, 58 FR 67997, Dec. 22, 1993, as amended by USCG-1998-3799, 63 FR 35531, June 30, 1998]

§ 155.310 Containment of oil and hazardous material cargo discharges.

(a) A tank vessel with a capacity of 250 or more barrels that is carrying oil or hazardous material as cargo must have—

(1) Under or around each loading manifold and each transfer connection point, a fixed container or enclosed deck area that, in all conditions of ship list or trim encountered during the loading operation, has a capacity of at least:

(i) One half barrel if it serves one or more hoses with an inside diameter of 2 inches or less, or one or more loading

arms with a nominal pipe size diameter of 2 inches or less;

(ii) One barrel if it serves one or more hoses with an inside diameter of more than 2 inches but less than 4 inches, or one or more loading arms with a nominal pipe size diameter of more than 2 inches but less than 4 inches;

(iii) Two barrels if it serves one or more hoses with an inside diameter of 4 inches or more, but less than 6 inches, or one or more loading arms with a nominal pipe size diameter of 4 inches or more, but less than 6 inches;

(iv) Three barrels if it serves one or more hoses with an inside diameter of 6 inches or more, but less than 12 inches, or one or more loading arms with a nominal pipe size diameter of 6 inches or more, but less than 12 inches; or

(v) Four barrels if it serves one or more hoses with an inside diameter of 12 inches or more, or one or more loading arms with a nominal pipe size diameter of 12 inches or more;

(2) A means of draining or removing discharged oil or hazardous material from each container or enclosed deck area without discharging the oil or hazardous material into the water; and

(3) A mechanical means of closing each drain and scupper in the container or enclosed deck area required by this section.

(b) An offshore tank barge with a cargo capacity of 250 or more barrels that is carrying hazardous material as cargo and an inland tank barge with the capacity of 250 or more barrels that is carrying oil or a hazardous material as cargo must meet paragraph (a) of this section or be equipped with—

(1) A coaming, at least 4 inches high but not more than 8 inches high, enclosing the immediate area of the cargo hatches, loading manifolds, and transfer connections, that has a capacity, in all conditions of vessel list and trim to be encountered during the loading operation, of at least one-half barrel per hatch, manifold, and connection within the enclosed area;

(2) A fixed or portable container under each loading manifold and each transfer connection within the coaming, that holds at least one-half barrel;