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§ 155.225 Internal cargo transfer capability.

Oil tankers and offshore oil barges must carry suitable hoses and reducers for internal transfer of cargo to tanks or other spaces within the cargo block, unless the vessel's installed cargo piping system is capable of performing this function.

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

§ 155.230 Emergency control systems for tank barges.

(a) *Application.* This section does not apply to foreign vessels engaged in innocent passage (that is, neither entering nor leaving a U.S. port); it applies to tank barges and vessels towing them on the following waters:

(1) On the territorial sea of the U.S. [as defined in Presidential Proclamation 5928 of December 27, 1988, it is the belt of waters 12 nautical miles wide with its shoreward boundary the baseline of the territorial sea], unless—

(i) The barge is being pushed ahead of, or towed alongside, the towing vessel; and

(ii) The barge's coastwise route is restricted, on its certificate of inspection (COI), so the barge may operate "in fair weather only, within 20 miles of shore," or with words to that effect. The Officer in Charge, Marine Inspection, may define "fair weather" on the COI.

(2) In Great Lakes service unless—

(i) The barge is being pushed ahead of, or towed alongside, the towing vessel; and

(ii) The barge's route is restricted, on its certificate of inspection (COI), so the barge may operate "in fair weather only, within 5 miles of a harbor," or with words to that effect. The Officer in Charge, Marine Inspection, may define "fair weather" on the COI.

(3) On Long Island Sound. For the purposes of this section, Long Island Sound comprises the waters between the baseline of the territorial sea on the eastern end (from Watch Hill Point, Rhode Island, to Montauk Point, Long Island) and a line drawn north and south from Premium Point, New York (about 40°54.5' N, 73°45.5' W), to Hewlett Point, Long Island (about

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40°50.5' N, 73°45.3' W), on the western end.

(4) In the Strait of Juan de Fuca.

(5) On the waters of Admiralty Inlet north of Marrowstone Point (approximately 48°06' N, 122°41' W).

(b) *Safety program.* If you are the owner or operator of a single-hull tank barge or of a vessel towing it, you must adequately man and equip either the barge or the vessel towing it so the crew can arrest the barge by employing *Measure 1*, described in paragraph (b)(1) of this section. Moreover, the crew must be able to arrest or retrieve the barge by employing either *Measure 2* or *Measure 3*, described in paragraphs (b)(2) and (3) of this section, respectively. If you are the owner or operator of a double-hull tank barge, you must adequately equip it and train its crew or, if it is unmanned, train the crew of the vessel towing it, so the crew can retrieve the barge by employing *Measure 2* described in paragraph (b)(2) of this section.

(1) *Measure 1.* Each single-hull tank barge, whether manned or unmanned, must be equipped with an operable anchoring system that conforms to 46 CFR 32.15-15; except that, for barges operating only on the West Coast of the U.S., a system comprising heavy surge gear and bridle legs may serve instead of the anchoring system. Because these systems will also serve as emergency control systems, the owner or operator must ensure that they meet the following criteria:

(i) *Operation and performance.* When the barge is underway—

(A) The system is ready for immediate use;

(B) No more than two crewmembers are needed to operate the system and anchor the barge or arrest its movement;

(C) While preparing to anchor the barge or arrest its movement, the operator of the system should confer with the master or mate of the towing vessel regarding appropriate length of cable or chain to use; and

(D) Each operator of the system should wear a safety belt or harness secured by a lanyard to a lifeline, drop line, or fixed structure such as a welded padeye, if the sea or the weather warrants this precaution. Each safety

belt, harness, lanyard, lifeline, and drop line must meet the specifications of ANSI A10.14 (incorporated by reference, see §155.140).

(ii) *Maintenance and inspections.* The owner or operator of the system shall inspect it annually. The inspection must verify that the 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.

(iii) *Training.* On each manned barge, every crewmember must be thoroughly familiar with the operation of the system. On each vessel towing an unmanned barge, every deck crewmember must be thoroughly familiar with the operation of the system installed on the barge. If during the last 12 months the system was not used to anchor or arrest the movement of the barge, then a drill on the use of the system must be conducted within the next month. The drill need not involve actual deployment of the system. However, it must allow every participant to demonstrate the competencies (that is, the knowledge, skills, and abilities) needed to ensure that everyone assigned a duty in 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

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paragraph (b)(2) of this section. Before you use such a measure or system, however, it must receive the approval of the Commandant (CG-521). 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, as amended by USCG-2001-8661, 74 FR 45026, Aug. 31, 2009; USCG-2010-0351, 75 FR 36285, June 25, 2010]

§ 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) (incorporated by reference; see § 155.140).

[USCG-2001-8661, 74 FR 45026, Aug. 31, 2009]

§ 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 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

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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