

### Subpart B—Design, Equipment, and Installation

#### § 157.08 Applicability of subpart B.

NOTE: An “oil tanker” as defined in § 157.03 includes barges as well as self-propelled vessels.

(a) Sections 157.10d and 157.11(g) apply to each vessel to which this part applies.

(b) Sections 157.11 (a) through (f), 157.12, 157.15, 157.19(b)(3), 157.33, and 157.37 apply to each vessel to which this part applies that carries 200 cubic meters or more of crude oil or products in bulk as cargo, as well as to each oceangoing oil tanker to which this part applies of 150 gross tons or more. These sections do not apply to a foreign vessel which remains beyond the navigable waters of the United States and does not transfer oil cargo at a port or place subject to the jurisdiction of the United States.

(c) Section 157.21 applies to each oil tanker to which this part applies of 150 gross tons or more that is oceangoing or that operates on the Great Lakes. This section does not apply to a foreign vessel which remains beyond the navigable waters of the United States and does not transfer oil cargo at a port or place subject to the jurisdiction of the United States.

(d) Sections in subpart B of 33 CFR part 157 that are not specified in paragraphs (a) through (c) of this section apply to each oceangoing oil tanker to which this part applies of 150 gross tons or more, unless otherwise indicated in paragraphs (e) through (m) of this section. These sections do not apply to a foreign vessel which remains beyond the navigable waters of the United States and does not transfer oil cargo at a port or place subject to the jurisdiction of the United States.

(e) Sections 157.11 (a) through (f), 157.12, and 157.15 do not apply to a vessel, except an oil tanker, that carries less than 1,000 cubic meters of crude oil or products in bulk as cargo and which retains oily mixtures on board and discharges them to a reception facility.

(f) Sections 157.11 (a) through (f), 157.12, 157.13, and 157.15 do not apply to a tank vessel that carries only asphalt, carbon black feedstock, or other products with similar physical properties,

such as specific gravity and cohesive and adhesive characteristics, that inhibit effective product/water separation and monitoring.

(g) Sections 157.11 (a) through (f), 157.12, 157.13, 157.15, and 157.23 do not apply to a tank barge that cannot ballast cargo tanks or wash cargo tanks while underway.

(h) Sections 157.19 and 157.21 do not apply to a tank barge that is certificated by the Coast Guard for limited short protected coastwise routes if the barge is otherwise constructed and certificated for service exclusively on inland routes.

(i) Section 157.09(d) does not apply to any:

(1) U.S. vessel in domestic trade that is constructed under a contract awarded before January 8, 1976;

(2) U.S. vessel in foreign trade that is constructed under a contract awarded before April 1, 1977; or

(3) Foreign vessel that is constructed under a contract awarded before April 1, 1977.

(j) Sections 157.09 and 157.10a do not apply to a new vessel that:

(1) Is constructed under a building contract awarded after June 1, 1979;

(2) In the absence of a building contract, has the keel laid or is at a similar stage of construction after January 1, 1980;

(3) Is delivered after June 1, 1982; or

(4) Has undergone a major conversion for which:

(i) The contract is awarded after June 1, 1979;

(ii) In the absence of a contract, conversion is begun after January 1, 1980; or

(iii) Conversion is completed after June 1, 1982.

(k) Sections 157.09(b)(3), 157.10(c)(3), 157.10a(d)(3), and 157.10b(b)(3) do not apply to tank barges.

(l) Section 157.10b does not apply to tank barges if they do not carry ballast while they are engaged in trade involving the transfer of crude oil from an offshore oil exploitation or production facility on the Outer Continental Shelf of the United States.

(m) Section 157.12 does not apply to a U.S. vessel that:

(1) Is granted an exemption under Subpart F of this part; or

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(2) Is engaged solely in voyages that are:

(i) Between ports or places within the United States, its territories or possessions;

(ii) Of less than 72 hours in length; and

(iii) At all times within 50 nautical miles of the nearest land.

(n) Section 157.10d does not apply to:

(1) A vessel that operates exclusively beyond the navigable waters of the United States and the United States Exclusive Economic Zone, as defined in 33 U.S.C. 2701(8);

(2) An oil spill response vessel;

(3) Before January 1, 2015—

(i) A vessel unloading oil in bulk as cargo at a deepwater port licensed under the Deepwater Port Act of 1974 (33 U.S.C. 1501 *et seq.*); or

(ii) A delivering vessel that is off-loading oil in bulk as cargo in lightering activities—

(A) Within a lightering zone established under 46 U.S.C. 3715(b)(5); and

(B) More than 60 miles from the territorial sea base line, as defined in 33 CFR 2.20.

(4) A vessel documented under 46 U.S.C., Chapter 121, that was equipped with a double hull before August 12, 1992;

(5) A barge of less than 1,500 gross tons as measured under 46 U.S.C., Chapter 145, carrying refined petroleum in bulk as cargo in or adjacent to waters of the Bering Sea, Chukchi Sea, and Arctic Ocean and waters tributary thereto and in the waters of the Aleutian Islands and the Alaskan Peninsula west of 155 degrees west longitude; or

(6) A vessel in the National Defense Reserve Fleet pursuant to 50 App. U.S.C. 1744.

[CGD 75-240, 41 FR 54179, Dec. 13, 1976, as amended by CGD 77-058b, 45 FR 43707, June 30, 1980; CGD 79-152, 45 FR 82249, Dec. 15, 1980; CGD 76-088b, 48 FR 45720, Oct. 6, 1983; CGD 90-051, 57 FR 36239, Aug. 12, 1992; 57 FR 40494, Sept. 3, 1992; CGD 97-023, 62 FR 33364, June 19, 1997; USCG-2008-0179, 73 FR 35015, June 19, 2008]

§ 157.09 Segregated ballast.

(a) A new vessel of 70,000 tons DWT or more must have segregated ballast tanks that have a total capacity to allow the vessel to meet the draft and trim requirements in paragraph (b) of

this section without recourse to the use of oil tanks for water ballast.

(b) In any ballast condition during any part of a voyage, including that of lightweight with only segregated ballast, the vessel's drafts and trim must have the capability of meeting each of the following requirements:

(1) The molded draft amidship (dm) in meters without taking into account vessel deformation must not be less than dm in the following mathematical relationship:

$$dm=2.0+0.02L$$

(2) The drafts at the forward and after perpendiculars must correspond to those determined by the draft amidship as specified in paragraph (b)(1) of this section, in association with the trim by the stern of no more than 0.015L.

(3) The minimum allowable draft at the after perpendicular is that which is necessary to obtain full immersion of the propeller.

(c) The vessel may be designed to carry ballast water in cargo tanks during the condition described in §157.35.

(d) Segregated ballast spaces, voids, and other noncargo-carrying spaces for a vessel of conventional form must be distributed:

(1) So that the mathematical average of the hypothetical collision (O<sub>c</sub>) and the hypothetical stranding (O<sub>s</sub>) outflows as determined by the application of the procedures in §157.19 and appendix B is 80 percent or less of the maximum allowable outflow (O<sub>A</sub>) as determined by §157.19(b)(1); and

(2) To protect at least 45 percent of the sum of the side and bottom shell areas, based upon projected molded dimensions, within the cargo tank length. When the vessel design configuration does not provide for the spaces to be distributed to protect at least 45 percent of the side and bottom shell areas, the spaces must be distributed so that the mathematical average of the hypothetical collision (O<sub>c</sub>) and the hypothetical stranding (O<sub>s</sub>) outflows, determined by application of the procedures in §157.19 and appendix B, is a further 2 percent less than the maximum allowable outflow (O<sub>a</sub>) for each 1 percent by which the shell area protection coverage required is not achieved.