

§ 155.245

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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;