

- 45.115 Bulwarks and guardrails.
- 45.117 Freeing port area: General.
- 45.119 Freeing port area; Changes from standard sheer.
- 45.121 Freeing port area: Changes for trunks and side coamings.
- 45.123 Freeing port area: Changes for bulwark height.
- 45.125 Crew passageways.
- 45.127 Position of structures, openings, and fittings.
- 45.129 Hull fittings: General.
- 45.131 Ventilators.
- 45.133 Air pipes.
- 45.135 Hull openings at or below freeboard deck.
- 45.137 Cargo ports.
- 45.139 Side scuttles.
- 45.141 Manholes and flush scuttles.
- 45.143 Hull openings above freeboard deck.
- 45.145 Hatchway covers.
- 45.147 Hatchway coamings.
- 45.149 Machinery space openings.
- 45.151 Other openings.
- 45.153 Through-hull piping: General.
- 45.155 Inlets and discharge piping: Valves.
- 45.157 Scuppers and gravity drains.
- 45.159 Special conditions of assignment for type A vessels.

#### Subpart E—Unmanned River Service Dry Cargo Barges

- 45.171 Purpose.
- 45.173 Vessels subject to this subpart.
- 45.175 Certification.
- 45.177 Special operation requirements.

#### APPENDIX A TO PART 45—LOAD LINE CERTIFICATE FORM

AUTHORITY: 46 U.S.C. 5115; 49 CFR 1.46.

SOURCE: CGD 73-49R, 38 FR 12290, May 10, 1973, unless otherwise noted.

### Subpart A—General

#### § 45.1 Purpose.

This part prescribes requirements for assignment of freeboards, issuance of loadline certificates, and marking of loadlines for service on the Great Lakes of North America.

[CGD 73-49R, 38 FR 12290, May 10, 1973, as amended by USCG-1998-4442, 63 FR 52190, Sept. 30, 1998]

#### § 45.3 Definitions.

As used in this part:

(a) *Length (L)* means 96 percent of the total length on a waterline at 85 percent of the least moulded depth measured from the top of the keel or the length from the foreside of the stem to

the axis of the rudder stock on that waterline, if that is greater. In ships designed with a rake of keel the waterline on which this length is measured must be parallel to the designed waterline.

(b) *Perpendiculars* means the forward and after perpendiculars at the forward and after ends of the length (L). The forward perpendicular coincides with the foreside of the stem on the waterline on which the length is measured.

(c) *Amidships* means the middle of the length (L).

(d) *Breadth* unless expressly provided otherwise, means the maximum breadth of the ship, measured amidships to the moulded line of the frame in a ship with a metal shell and to the outer surface of the hull in a ship with a shell of any other material.

(e) *Moulded Depth* means the vertical distance measured amidships from the top of the keel to the top of the freeboard deck beam at side except that—

(1) In vessels of other than metal construction, the distance is measured from the lower edge of the keel rabbet;

(2) Where the form at the lower part of the midship section is of a hollow character, or where thick garboards are fitted, the distance is measured from the point where the line of the flat of the bottom continued inwards cuts the side of the keel;

(3) In ships having rounded gunwales, this distance is measured to the point of intersection of the moulded lines of the deck and side, the lines extending as though the gunwale were of angular design; and

(4) Where the freeboard deck is stepped and the raised part of the deck extends over the point at which the moulded depth is to be determined, the distance is measured to a line of reference extending from the lower part of the deck along a line parallel with the raised part.

(f) *Depth for Freeboard (D)* means—

(1) Moulded depth amidships plus the thickness of the stringer plate with no allowance for sheathing; and

(2) In a vessel having a rounded gunwale with a radius greater than 4 percent of the breadth (B) or having topsides of unusual form, the depth for