Manual of Petroleum Measurement Standards Chapter 17.14.1

Measurement of Bulk Cargoes by Draft Survey—Ocean-going Vessels

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Measurement of Bulk Cargoes by Draft Survey—Ocean-going Vessels

1 Scope

This document describes the procedure for determining the transferred quantity of products loaded onto or discharged from ocean-going vessels by draft survey. This procedure is not an alternative where effective static or dynamic liquid measurement methods can be used.

The draft survey process is not cargo-specific and can be used on many types of cargo.

2 Normative References

There are no normative references in this document.

3 Terms and Definitions

For the purposes of this document, the following terms and definitions apply.

3.1
aft draft
The distance from the bottom of the keel to the waterline on aft perpendicular.

3.2
aft perpendicular
A vertical line drawn at the intersection of the waterline at the vessel's summer draft marks and the aft edge of the rudder post, or, in the case of most modern ships where no rudder post is fitted, the center line of the rudder stock.

3.3
apparent density
Apparent weight of a substance occupying unit volume.

3.4
apparent trim
The difference between the forward draft and the aft draft as read and not corrected to the vessel's perpendiculars.

3.5
apparent weight
Weight in air.

3.6
beam
The transverse dimensions in a horizontal plane expressing the breadth or width of the ship or ocean-going barge and measured from side shell plating to side shell plating.

3.7
corrected mean draft
CMD
The draft as calculated at the center of flotation; may not be equal to the average of the drafts forward and aft. An inland barge's final draft is calculated using the quarter mean method.

3.8
corrected trim
The apparent trim corrected to the perpendiculars.