Manual of Petroleum Measurement Standards Chapter 17.14.1

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

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1 Scope

This document describes the procedure for determining the transferred quantity of non-liquid petroleum 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.

2 Normative References

The following documents are referred to in the text in such a way that some or all of their content constitutes requirement of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any addenda) applies.

API *MPMS* Chapter 11.5, *Density/Weight/Volume Intraconversion*

API *MPMS* Chapter 17.4, *Method for Quantification of Small Volumes on Marine Vessels (OBQ/ROB)*

3 Terms and Definitions

For the purposes of this document, the following 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 trim
The difference between the forward draft and the aft draft as read and not corrected to the vessel's perpendiculars.

3.4
apparent weight
Weight in air.

3.5
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.

3.6
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.

3.7
corrected trim
The apparent trim corrected to the perpendiculars.