Manual of Petroleum Measurement Standards Chapter 17.14.2

Measurement of Bulk Cargoes by Draft Survey—Inland Barges

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Measurement of Bulk Cargoes by Draft Survey—Inland Barges

1 Scope

This document describes the procedure for determining the transferred quantity of non-liquid petroleum products loaded onto or discharged from inland barges 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 of 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, *Physical Properties Data—Density/Weight/Volume Intraconversion*

API *MPMS* Chapter 17.4, *Marine Measurement—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
Toward the stern (rear).

3.2
arithmetic mean draft (AMD)
The arithmetic mean of the forward draft and the aft draft will equal the draft midships if there is no hog or sag.

3.3
average waterline length (AWL)
The arithmetic mean of the port-side waterline length and starboard side waterline length.

3.4
barge depth
The distance from the bottom of a barge to the surface of the deck.

3.5
barge displacement tons
The underwater volume of a barge multiplied by the apparent density of the harbor water.

3.6
box barge
A barge that is shaped like a box and that does not have a rake bow. The height of a box barge is approximately uniform forward, aft, and midships.

3.7
coaming
A raised frame (as around a hopper in the deck of a barge) to keep out water.