



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

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**Crude petroleum and petroleum products - Bulk cargo transfer -
Guidelines for achieving the fullness of pipelines**

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules of Standardization Documents"

Drafting.

This document uses the redrafting law to amend and adopt ISO 11563.2003 "Crude Oil and Petroleum Products Bulk Cargo Transfer Pipeline Filling Guidelines"

South".

Compared with ISO 11563.2003, this document has many adjustments in structure.

Appendix A gives this document and ISO 11563.2003

The chapter number comparison table.

The technical differences between this document and ISO 11563.2003 and the reasons are as follows.

a) Deleted "International Oil Tanker and Oil Terminal Safety Guide (ISGOTT)" (see Chapter 4), which should not be placed in the main text;

b) The relevant content of laws and regulations has been deleted (see Chapter 4), and the drafting documents should not contain documents that require compliance with laws and regulations or policies.

Terms;

- c) The content of obtaining the reference volume of the designated pipeline of the oil tanker (see 6.3.6) has been added to determine the replacement amount relatively accurately;
- d) Modify the "volume required for pipeline replacement" to "approximate amount" (see 6.3.11), so that the contents of the file echo the beginning and the end.

Introduction

When crude oil and petroleum products are being transferred, the accurate measurement of the transfer volume is affected by the fullness of the cargo in the transfer pipeline and the pipeline. if

The transfer pipeline contains air or steam, or the cargo to be transferred and the cargo in the pipeline have different physical properties.

The line is filled with liquid compatible with the cargo to be transferred.

Bulk cargo transfer of crude oil and petroleum products

Pipeline filling guide

1 Scope

This document provides guidance for achieving full pipeline.

This document is applicable to the loading and unloading of crude oil and petroleum products that are liquid under normal pressure, and the transfer between storage tanks in some areas.

This document does not apply to long-distance pipelines.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

There are no terms and definitions that need to be defined in this document.

4 Safety advice

All safety recommendations should comply with the terms and conditions specified by the tanker and loading dock.

Note. The International Safety Guide for Oil Tankers and Oil Terminals (ISGOTT) provides guidelines for the safe transportation and loading and unloading of oil and petroleum products by oil tankers and loading and unloading terminals.

suggestion.

5.1 Loading dock

5.1.1 The loading and unloading terminal should designate a pipeline system with flowmeter (if used) and storage tank (if used), and give the designated pipeline

Reference volume.

5.1.2 If the high-position exhaust valve/view mirror method (see 6.5) is selected to determine whether the designated pipeline is full, the loading dock should provide an exhaust valve or

The position of the sight glass.

5.2 Oil tanker

5.2.1 The oil tanker should provide the reference volume of the designated pipeline on board used for pipeline replacement operations, and give the empty or full status of the designated pipeline.

5.2.2 The fullness of designated pipelines on ships has a direct impact on the accuracy of pipeline replacement operations between the tanker and the shore. Oil tanker

Provide assistance as much as possible to accurately determine the fullness of designated pipelines on ships.

6.1 Overview

This document gives the following methods to fill the pipeline.