

Marine Terminal Information System (MTIS)

A New International Initiative

Prevention First 2012, California State Lands Commission
Long Beach 23rd October 2012

Bill Crabbs, Director, Marine Terminal Assurance –



Oil Companies International Marine Forum (OCIMF)

A voluntary association of oil companies with an interest in the shipment and terminalling of crude oil, oil product, petrochemical and gas.

- **94 members in voluntary association**
- **Executive Committee directs standing committees and a full-time secretariat supporting the work of the Marine Forums**
- **OCIMF does not involve itself in commercial issues, including vetting, but restricts its activities to those issues affecting safety and environmental protection.**



History

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- 1967 Grounding of Torrey Canyon
 - 1970 OCIMF formed
 - 1975 First OCIMF guideline published (Ship to Ship Transfer Guide)
 - 1977 Incorporated, granted consultative status at the International Maritime Organization (IMO)
 - 1993 SIRE (Ship Inspection Report) launched
 - 1998 50th publication released
 - 2004 Tanker Management Self Assessment launched
 - 2009 Embark on Offshore Vessel Inspection Database and Consolidated Marine Terminal Information System**



6 objectives in fulfilling the OCIMF mission



Standards

To identify safety and environmental issues facing the oil tanker and terminal industries, and develop and publish recommended standards that will serve as technical benchmarks.

Regulatory

To contribute to the development of international conventions and regulations that enhance the safe construction and operation of oil tankers and terminals, working with the IMO and other regulatory bodies, both regional and national.

Enforcement

To encourage flag States, port States and classification societies in their enforcement of international conventions and regulations.

Consultation

To promote ratification and implementation of international compensation conventions.

Promotion

To actively promote OCIMF's role in the development of safety and environmental guidelines and recommendations, harnessing the skills and experience of OCIMF members and holding industry events addressing the issues.

Promulgation

To facilitate access by charterers and authorities to data on tankers **and Terminals** relating to safety and pollution prevention, through the Ship Inspection Report (SIRE) Programme, the Tanker Management Self Assessment Programme (TMSA) and **the Marine Terminal Information System (MTIS).**



So, **what** is this OCIMF Marine Terminal Information System (MTIS)?



Marine Terminal Information System Project Launched in late 2009

- Development is managed by the Terminal Policy Steering Group of the Ports and Terminals Committee
- OCIMF SIRE and TMSA programs have been successful in raising standards of tankers and their operation
- Concerns remain among OCIMF members regarding safety and operating standards at some terminals and the associated risks

Goal :

- **Raise standards at marine terminals for safer berths and ship/shore interfacing.**



MTIS is aimed at ensuring that ALL marine terminals worldwide reach common high standards of safety and environmental protection.

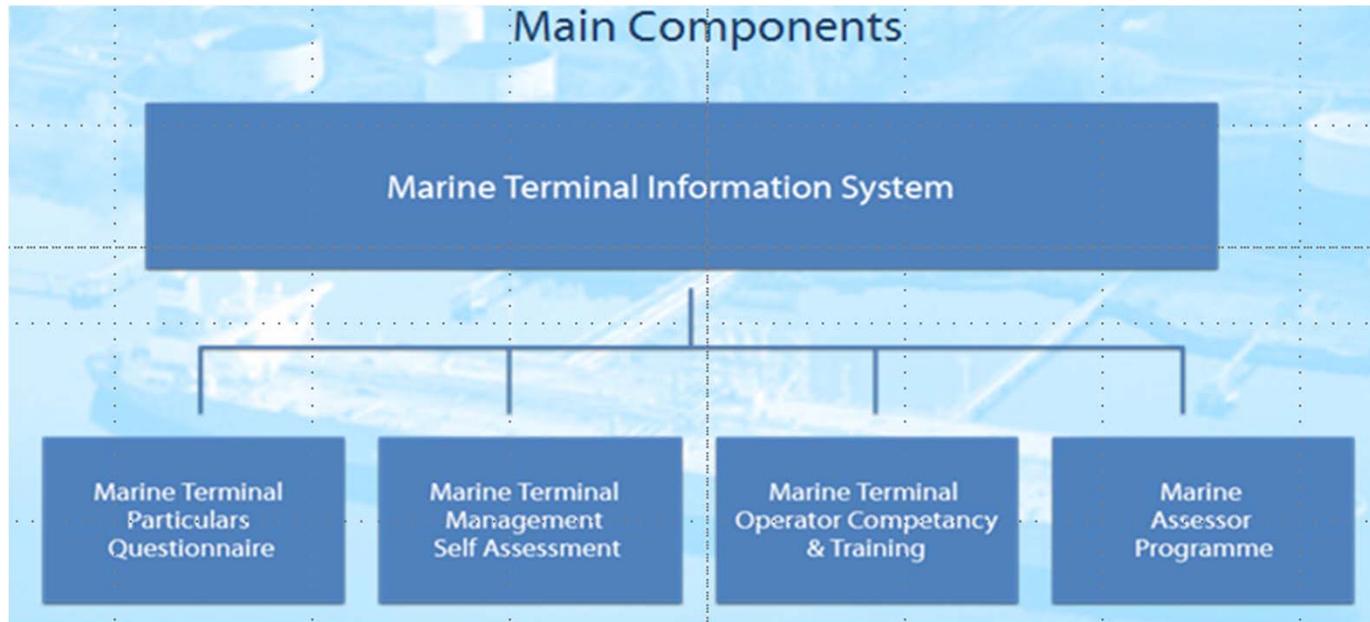


Why the Marine Terminal Information System (MTIS)?



- *Drive higher safety standards*
- *facilitate better matching of terminals and vessels*
- *improve dissemination of terminal particulars*
- *provide a process of self assessment and review*
- *provide better trained and motivated staff.*

How, this Marine Terminal Information System?



Develop a consolidated Marine Terminal Information System incorporating:

- **Marine Terminal Particular Questionnaire**
- **Marine Terminal Management & Self Assessment**
- **Marine Terminal Operator Competency and Training System**
- **Marine Terminal Assessor Programme**

MARINE TERMINAL INFORMATION SYSTEM (MTIS)

Marine Terminal Particulars Questionnaire (MTPQ)

A comprehensive database of terminal particulars using structures, quantitative data

Marine Terminal Management Self Assessment System (MTMSA)

Best practice guidance and key performance indicators against which terminal operators can assess the effectiveness of their management processes and systems for terminal and berth operations

Marine Terminal Operator Competency and Training System (MTOCT)

Will identify and promote key competencies and knowledge requirements, together with verification processes, to assist terminal operators to develop best practice training programmes

Marine Terminal Assessor Programme (MTAP)

Will provide confidence that staff used to conduct MTMSAs are suitably qualified



MTIS, then, is a consolidated safety system embracing the physical properties of the terminals, management systems and operator training





Welcome to MTIS

The OCIMF Marine Terminal Information System (MTIS) is a new system that is being produced under the guidance of OCIMF on behalf of its members. MTIS is a strictly voluntary programme, run by OCIMF for the benefit of its members and to protect the marine environment.

The MTIS aims to ensure that all marine terminals worldwide reach common high standards of safety and environmental protection. This programme includes the development of a consolidated safety system embracing the physical properties of the terminals, management systems and operator training.



Announcements

3 October 2011: MTPQ LIVE

OCIMF's Marine Terminal Particular Questionnaire is now live.

[Click here to login.](#)

MTIS promotional slideshow LIVE

OCIMF's MTIS promotional slideshow is now available.

[Click here to open the slideshow.](#)

Marine Terminal Particulars Questionnaire

The ultimate aim is to compile a comprehensive database of relevant information for all the world's 10,000+ terminals – from the hardware available, to berth measurements and transfer rates. The Marine Terminal Particulars Questionnaire (MTPQ) was developed to collect this information in a common format using consistent units of measurement. By comparing the information generated by the MTPQ with SIRE vessel data, vessel programmers, schedulers and operators will be better able to assess the compatibility of ships and terminals and ensure safe operation and environmental protection.



You can login to the LIVE MTIS system by clicking the link below.

Login to MTIS

Follow the link below to register as a MTIS Terminal Operator.

Register

ocimf-mtis.org

OCIMF Marine Terminal Information System (MTIS)

Raising marine terminals standards worldwide: the OCIMF Marine Terminals Information System (MTIS)



☰ [Browse All MTPQ Features](#)



MTIS Marine Terminal Particulars Questionnaire (MTPQ)

- Development of Marine Terminal Particular Questionnaire commenced in Nov 2009
- Marine Terminal Particular Questionnaire went live on Oct 3rd, 2011.

Objective

Provision of accurate and comprehensive terminal information as an essential element in ensuring the compatibility of ships and terminals, the safety of operations and the protection of the environment

- Expected outcome of MTPQ is an accurate repository of marine particulars data
- Data needed for assessing suitability of the ship/shore interface



The ultimate aim is to compile a comprehensive database of relevant information for all the world's 10,000+ terminals – from the hardware available to berth measurements and transfer rates.



Benefits of MTPQ and MTPQ Database

- **Provide a standard format for the collection of information that can be shared with terminal users**
- **Improved effectiveness and efficiency, with better dissemination of terminal information**
- **Improved operational efficiency through better matching of terminals and tankers**
- **MTPQ is provided with help and guidance to standardise the information being collected**
- **Information will be available to the terminal in a format that will be suited for onward transmission**
- **Terminal will have provision through Terminal Particular Questionnaire system to attached terminal information, for example, terminal information booklets**



Information will be available to the terminal in a format that will be suited for onward transmission



OCIMF

MTPQ Guidance



Marine Terminal Particulars Questionnaire (MTPQ) Guidelines

CONTENTS

1. Introduction
2. Glossary
3. Technical/Marine Guidelines
4. Plans and Diagrams
5. MTPQ Section 16 Supplementary Information Guidelines



MTPQ Glossary



Marine Terminal Particulars Questionnaire (MTPQ) Guidelines

Mercaptan	A group of naturally occurring, sulphur containing, organic chemicals, present in some crude oils, condensates and gasoline cargoes. They have a strong odour and are sometimes used to give LPG cargoes their distinctive smell. Initial effects on people are similar to those of Hydrogen Sulphide.
Messenger	A small diameter rope, typically up to 40mm, used to heave the end of a heavier line such as a mooring rope to a securing point such as a shore hook or ship's bollard.
Minimum breaking load	The minimum load at which a rope or wire breaks when tested to destruction.
Minimum vertical clearance	The smallest vertical distance measured from Highest Astronomical Tide or similar datum to the underside of a bridge, span or overhead cable
Mooring craft	Small craft used to assist in transferring mooring lines from vessel to shore during berthing.
Mooring equipment guidelines	Guidelines produced by the Oil Companies International Marine Forum the number size and operating parameters of mooring equipment fitted to ships.
Mooring tails	A length of synthetic rope fitted between end of mooring lines and shore to provide increased elasticity to the mooring arrangements thus reducing dynamic loads on mooring lines.
MPM	Multi Point Mooring
National Geodetic Vertical Datum	The vertical control datum established in 1929 for surveying in the United States of America. It has since been replaced by the North American Vertical Datum of 1988 (NAVD 88)
Negative tidal surge	The reduction in predicted tidal height due to abnormal weather conditions.
Normaal Amsterdam Peil	Also known as "Amsterdam Ordnance Datum" is a vertical datum in use in large parts of Western Europe.
Normal ballast condition	Designed ballast condition for vessel in normal weather conditions.
Over-the-tide operations	A procedure which utilises tidal changes in water depth to either finish loading of a ship to its full draft as the water depth increases toward high tide, or to discharge cargo to lighten a ship before a low tide level is reached, thus maintaining the vessel "always afloat"
Parallel body length	Measurement at waterline of the flat side of vessel.
PERC	Powered emergency release couplings.
Pilotage	Passage from open sea to terminal or berth where ships' crews are assisted by a local pilot to ensure safety of navigation.
PLEM	Pipe Line End Manifold
Port Authority	Organisation which has management authority and control of a port.
Port Facility Security Officer	Nominated person responsible for terminal's compliance with ISPS code.

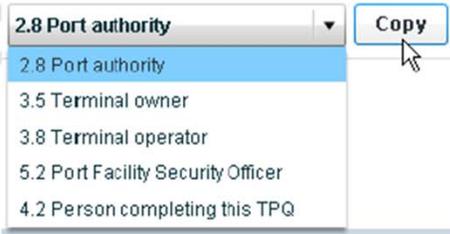


MTPQ Form includes Links to Guidance and Glossary



Marine Terminal Particulars Questionnaire (MTPQ) Guidelines

4. Technical/Marine Guidelines for Terminal and Berth Particulars

No	Data Item	Guidance Notes / Information
1	Terminal Details	General
1.1	Date This TPQ document was completed/updated.	
1.2	Specify Units Used	State whether Metres and Metric Tonnes or Feet and Long Tons.
2	Terminal Details	Port Details
2.1	Port Name	Predictive Text Facility provided
2.2	UNLOCODE	Click here for details of the UN Locode system. Links to: http://www.unece.org/cefact/locode/ for details of the UN Locode system.
2.3	Country	Predictive Text Facility provided
2.4	Latitude and Longitude of Port	In degrees, minutes and seconds
2.5	Is this location affected by ice ?	If 'Yes', Berth section 15 to be completed
2.6	Name of port authority	
2.7	Port authority contact name and title	
2.8	Port authority full style contact address	<p><i>Facility provided to copy "Full Style Contact Address" details from other entities as shown below:</i></p> 
3	Terminal Details	Terminal Details
3.1	Terminal Name	
3.2	Terminal owner	
3.3	Name of first point of contact for terminal owner	

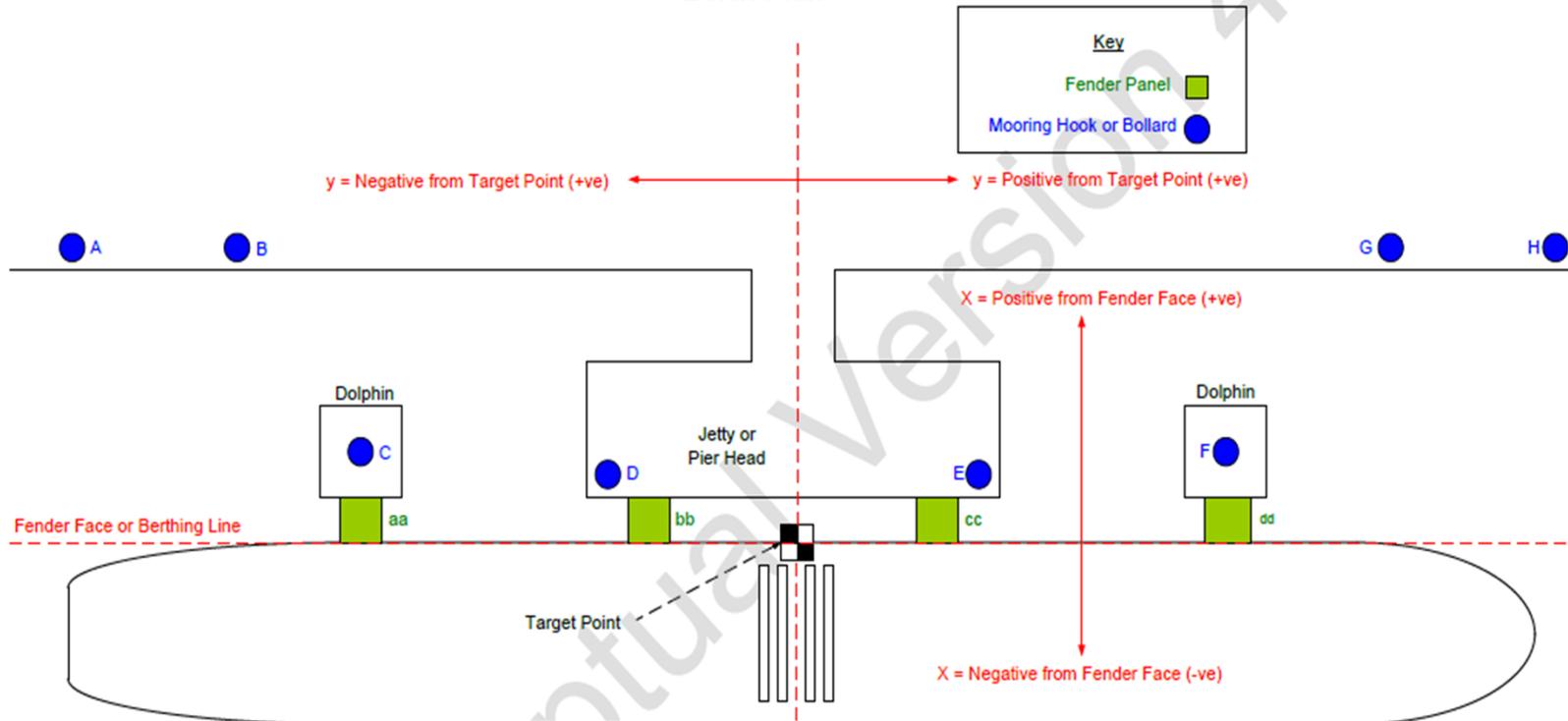


Common Reference System for Terminal and Vessel



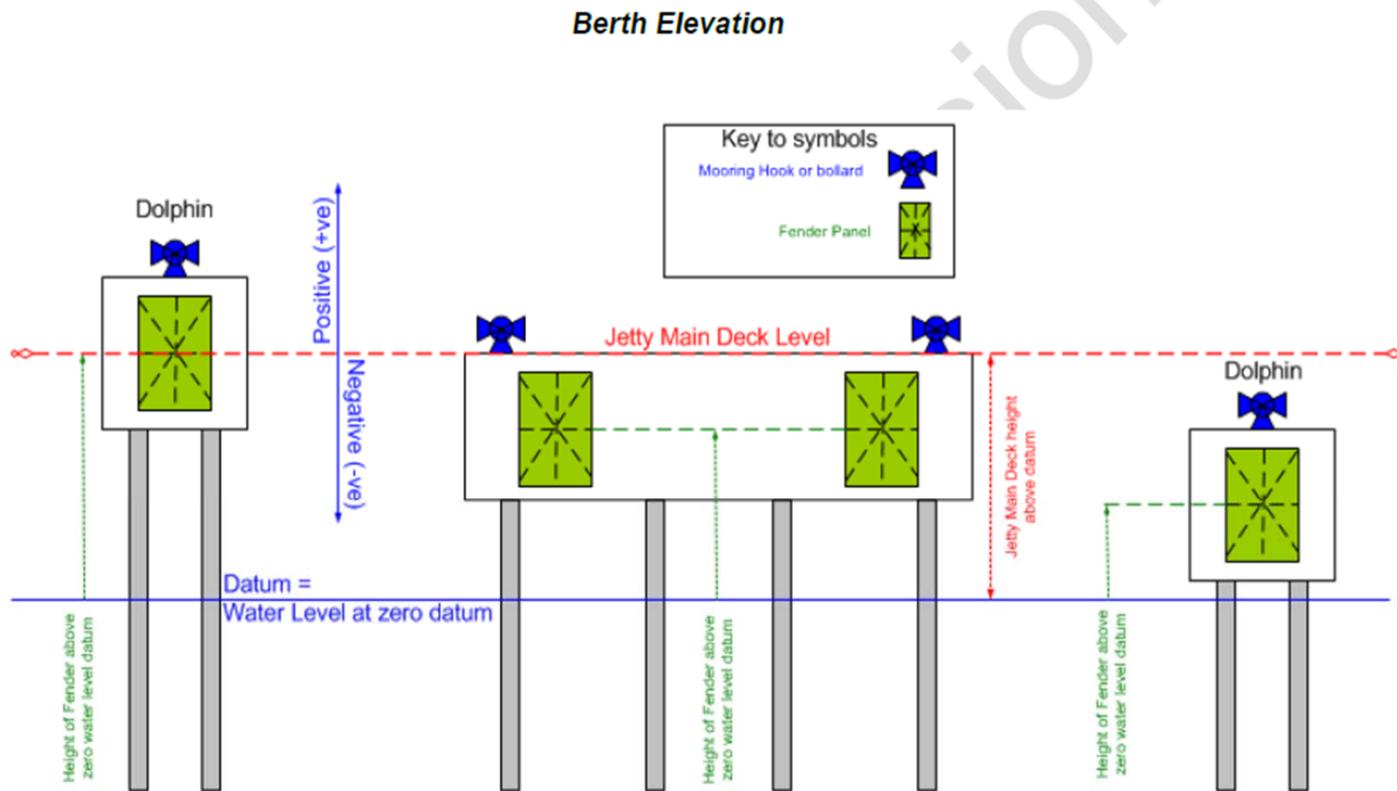
Terminal Particulars Questionnaire (TPQ) Introduction & Guidelines

Berth Plan



Common Reference System for Terminal and Vessel

For SBM / SPM Berths the Target Point should be located at the ship's fairlead through which the SBM / SPM Mooring Chain and Hawser is deployed.



MTPQ Standard Report Template



Oil Companies International Marine Forum

Terminal Particulars Questionnaire

Terminal

Port

Port authority

Last updated



MTPQ Reports Available On Line to Registered Users

OCIMF MTPQ Terminal Index

Add Terminal Print Template Back Home

Terminal Listings (19 terminals) Show Search

Terminal Name	Port	# Berths	Date MTPQ Last Updated	Complete Status		
Phillips 66 Alliance	PORT OF NEW ORLEANS	4	10 May 2012 16:33	76.50%		
Phillips 66 Bantry Bay Terminal	Bantry Bay	2	10 May 2012 16:43	56.00%		
Phillips 66 Bayway Refinery	New York	5	10 May 2012 16:44	86.50%		
Phillips 66 Clifton Ridge Marine Terminal	Lake Charles, LA	2	10 May 2012 16:45	80.50%		
Phillips 66 Ferndale	Ferndale	2	10 May 2012 16:45	72.00%		
Phillips 66 Freeport 1	PORT OF FREEPORT	4	10 May 2012 16:46	81.50%		
Phillips 66 Hartford Marine Terminal	Hartford Illinois	1	10 May 2012 16:36	68.50%		
Phillips 66 Los Angeles Refinery	Los Angeles, California	2	10 May 2012 16:47	79.50%		
Phillips 66 Portland	Portland, Oregon	2	10 May 2012 16:47	74.50%		
Phillips 66 Richmond	Richmond, San Francisco CA	3	10 May 2012 16:48	84.00%		

1 2



MTPQ = improved operational efficiency and safety through better matching of terminals and vessels



MTMSA

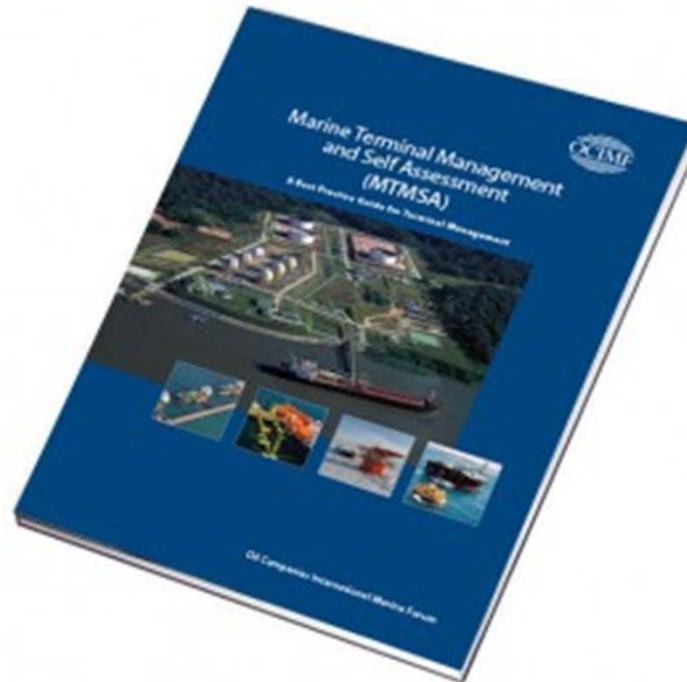
To provide best practice and key performance indicators against which terminal operators can assess the effectiveness of their management processes and systems for terminal and berth operations.

- Similar in concept and format to TMSA
- Will replace the existing OCIMF Marine Terminal Baseline Criteria
- Best Practice and Key Performance Indicators
- Allow Terminal Operators to Assess the effectiveness of their management systems for Terminal and Berth operations and ship to shore interface

☰ Browse All MTPQ Features

MTIS Marine Terminal Management & Self Assessment (MTMSA)

- Development of MTMSA document launched in March 2010, published September 2012.
- Work involved revision OCIMF Marine Terminal Baseline Criteria publication under a new format based on TMSA assessment format
- MTMSA replaces Marine Terminal Baseline Criteria



Benefits of Marine Terminal Management & Self Assessment :

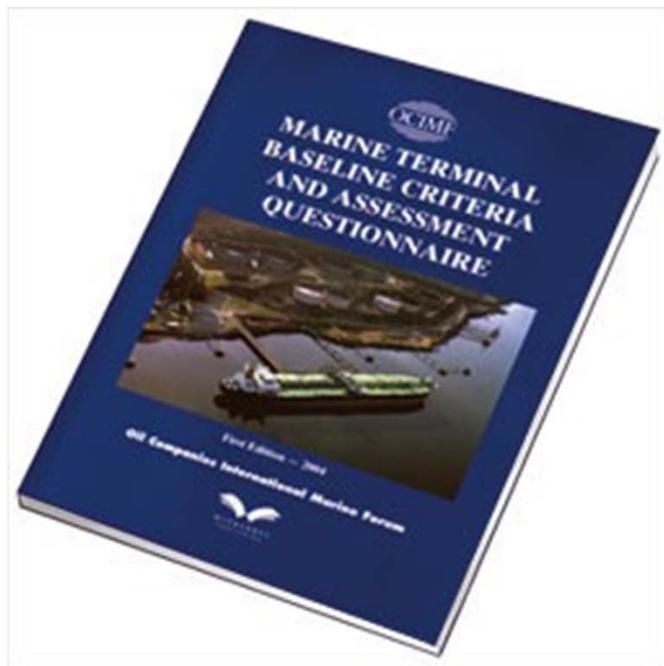
→ Document will assist terminal operators to assess the effectiveness of their management system including ship/shore interface activity

→ The process will encourage terminal operators to assess the performance of the management system by means of Key Performance Indicators (KPIs)

→ Terminal operators can use their assessment results to develop a plan to promote continuous improvement on safety and environmental performance



MTMSA Background



*OCIMF Marine Terminal
Baseline Criteria and
Assessment
Questionnaire, 1st Edition
2004*

Superseded the OCIMF *Marine Terminal Survey Guidelines (Chemical, Gas and Oil Terminals)* published in 1983

46 Baseline Criteria each with guidance, key and guidance questions

- 1.0 Management and Organisation
- 2.0 Port Operations
- 3.0 Terminal Layout/Physical Considerations
- 4.0 Ship/Shore Interface
- 5.0 Cargo Transfer
- 6.0 Safety, Health and Fire Protection
- 7.0 Environmental Protection
- 8.0 Emergency Preparedness
- 9.0 Maintenance

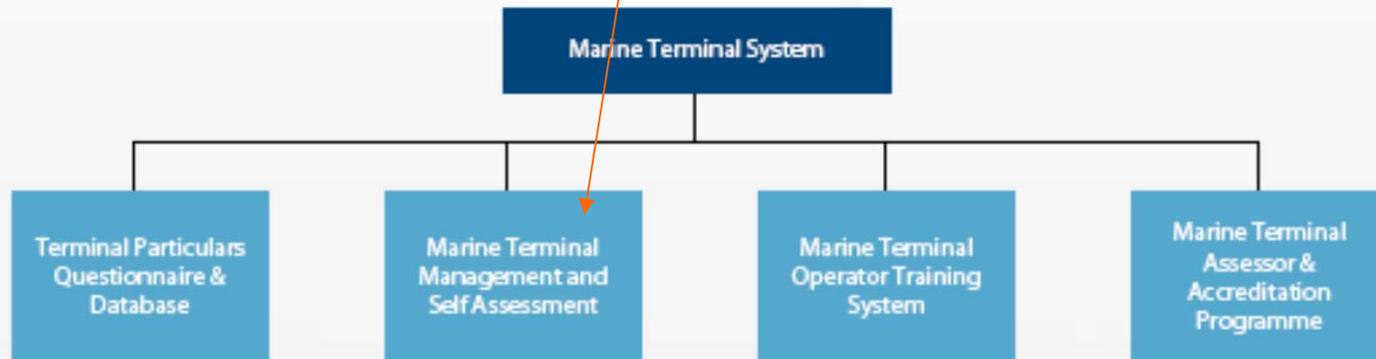
Additional Questionnaires include
Jetty Site Visit Check-list



MTMSA Background



Many of OCIMF's members are contributing to the Steering Group and Working Groups that are developing the OCIMF Marine Terminal System.



The OCIMF Marine Terminal System.



MTMSA Background



OCIMF *Tanker Management and Self Assessment (TMSA)*

- publication and program introduced in 2004
- tool for ship operators to measure and improve their safety and environmental management, reduce risks
- encourages assessment of management systems against listed KPIs
 - ✓ best practices provide guidance to achieve KPIs
 - ✓ 21 elements, 245 KPIs
- method for distribution of data where ship operator retains control



MTMSA

OCIMF *Marine Terminal Management and Self Assessment (MTMSA)*



- publication and program introduction in 2012
- standardized tool for global application
- assist terminal operators in assessing the effectiveness of management systems
 - ✓berth operations
 - ✓management of the ship/shore interface
- provides tool to risk assess, measure trends, manage resources, reduce risks, drive continuous improvement
- encourages assessment of management systems against listed KPIs
 - ✓best practices provide guidance to achieve KPIs
 - ✓17 elements, 245 KPIs
- data distribution method where terminal operator retains control



MTMSA

Continuous Improvement

Plan
Act
Measure
Improve

Measurement Process

KPIs
BPG

Self Assessment Process

Reporting

Completed annually or with significant changes

Submission to OCIMF identifying OCIMF member companies that can receive the report



MTMSA will assist terminal operators assess the effectiveness and continuous improvement of their management system including ship/shore interface activity.





www.OCIMF.com

Oil Companies International Marine Forum
29 Queen Anne's Gate, London, SW1H 9BU

Tel: +44 (0) 20 7654 1200
Fax: +44 (0) 20 7654 1205