

1.1 Introduction

The purpose of this document is to provide guidance to Masters and operators of vessels undertaking side-by-side ship-to-ship (STS) transfer operations of crude oil, petroleum products, chemicals and liquefied gases, both at sea and in port. Other parties may also benefit from studying these guidelines. Such parties may include ship charterers, traders, STS service providers and those contracting STS service providers.



Figure 1.1: Ship-to-ship transfer of tanker

The structure of this Guide has been developed such that all general references to STS operations that are applicable irrespective of the cargo being transferred are included in the main section of the document. Recommendations that relate to a particular cargo are included in separate appendices for crude oil and petroleum products, chemicals, liquefied petroleum gas (LPG) and liquefied natural gas (LNG).

The advice contained in this Guide may be supplemented by instructions from individual ship operators in order that particular aspects of their own procedures can be covered.

The requirements of MARPOL Annex I, chapter II, *The Prevention of Pollution During Transfer of Oil Cargo Between Oil Tankers at Sea* (reference 35), should be adhered to for all applicable operations involving oil cargoes. The requirement for vessels to be provided with an STS operations plan should be considered for adoption by vessels involved in the STS transfer of other cargoes as recommended best practice. For further guidance on the content of STS operations plans, reference should be made to appendix A.

1.2 Background

The STS transfer of liquid cargoes in port and at sea has become common practice. Experience gained from these regular operations has proved that STS transfers are safe given the use of suitable equipment and compliance with proper procedures, including the establishment of safe environmental operating limits.

Amendments to MARPOL entered into force on 1 January 2011 and contain requirements relating to the at sea transfer of Annex I (oil) cargoes between vessels (see appendix A).



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Ship to Ship Transfer Guide (Petroleum) Ics-Ocimf, Oil Companies International Marine Forum, 1988 **Specialized Training for Oil Tankers**, 2006 **Lloyd's Register OneOcean's Guide to Port Entry 1993-94 Kenya-Zaire** Lloyd's Register Foundation, 1993-01-01 First published in 1971 these Guides provide invaluable information on thousands of commercial ports and terminals across the globe They are compiled and published annually by LR OneOcean whose years of global maritime experience allows them to provide expert and innovative solutions that enhance efficiency sustainability and overall industry success The Guides cover a significant geographical breadth and the most recent volume includes information on over 12 500 ports harbours and terminals worldwide These are fully indexed and contain detailed port plans and mooring diagrams Lloyd's Register OneOcean's Guide to Port Entry 1989-90 Nations M-Z Lloyd's Register Foundation, 1989-01-01 First published in 1971 these Guides provide invaluable information on thousands of commercial ports and terminals across the globe They are compiled and published annually by LR OneOcean whose years of global maritime experience allows them to provide expert and innovative solutions that enhance efficiency sustainability and overall industry success The Guides cover a significant geographical breadth and the most recent volume includes information on over 12 500 ports harbours and terminals worldwide These are fully indexed and contain detailed port plans and mooring diagrams Dangerous Cargoes in Port Maritime Navigation Commission. Working Group No. 35, 2000 *Lloyd's Register OneOcean's Guide to Port Entry 1985-1986* Lloyd's Register Foundation, 1985-01-01 First published in 1971 these Guides provide invaluable information on thousands of commercial ports and terminals across the globe They are compiled and published annually by LR OneOcean whose years of global maritime experience allows them to provide expert and innovative solutions that enhance efficiency sustainability and overall industry success The Guides cover a significant geographical breadth and the most recent volume includes information on over 12 500 ports harbours and terminals worldwide These are fully indexed and contain detailed port plans and mooring diagrams Introduction to Ship-to-Ship Transfers for Oil Tankers Alexander Arnfinn Olsen, 2024-10-08 This book provides an outline of the Ship to Ship transfer process and how ship s masters and officers can conduct this inherently dangerous activity safely It is non technical in detail making it an ideal resource for first year students completing their studies in nautical science or as a refresher resource for professionals already employed in the tanker sector Moreover this book would serve as a good handrail for shore based personnel involved in planning and executing ship to ship transfers It would be used a mid range textbook for apprentices officer cadets posted to crude gas carriers Due to its non technical approach accessible style and nature the book would be good resource for students and teachers trainers in the maritime field *Lloyd's Register OneOcean's Guide to Port Entry 1989-1990 Nations A-L* Lloyd's Register Foundation, 1989-01-01 First published in 1971 these Guides provide invaluable information on thousands of commercial ports and terminals across the globe They are compiled and published annually by LR OneOcean

whose years of global maritime experience allows them to provide expert and innovative solutions that enhance efficiency sustainability and overall industry success The Guides cover a significant geographical breadth and the most recent volume includes information on over 12 500 ports harbours and terminals worldwide These are fully indexed and contain detailed port plans and mooring diagrams

Port Management and Operations Maria G. Burns, 2018-09-03 With 80 percent of the world's commodities being transported by water ports are the pillars of the global economy Port Management and Operations offers readers the opportunity to enhance their strategic thinking and problem solving skills while developing market foresight It examines global port management practices at the regulatory commercial technological operational financial and sociopolitical levels This powerful sourcebook describes how seaports are being affected by the changes occurring nationally regionally and globally Evaluating the new regulatory framework it pinpoints the industry's implementation readiness and identifies potential problem areas The book classifies the spectrum of interrelated port management principles strategies and activities in a logical sequence and under four cornerstones Port Strategy and Structure Legal and Regulatory Framework Input Factors of Production and Output and Economic Framework Detailing best practices and the latest industry developments the book highlights emerging challenges for port managers and identifies opportunities to develop forward thinking strategies It examines the effectiveness of current strategies tactics tools and resources of numerous global ports and highlights the necessity of adopting a proactive stance in harmonizing the laws regulations and policies pertaining to the maritime oil and gas industries The shipping industry has myriad complexities and this book provides maritime managers and professionals with the wide ranging and up to date understanding required to thrive in today's highly competitive and evolving environment

Standard Handbook of Petroleum and Natural Gas Engineering William Lyons, Gary J Plisga BS, Michael Lorenz, 2015-12-08 Standard Handbook of Petroleum and Natural Gas Engineering Third Edition provides you with the best state of the art coverage for every aspect of petroleum and natural gas engineering With thousands of illustrations and 1 600 information packed pages this handbook is a handy and valuable reference Written by dozens of leading industry experts and academics the book provides the best most comprehensive source of petroleum engineering information available Now in an easy to use single volume format this classic is one of the true must haves in any petroleum or natural gas engineer's library A classic for over 65 years this book is the most comprehensive source for the newest developments advances and procedures in the oil and gas industry New to this edition are materials covering everything from drilling and production to the economics of the oil patch Updated sections include underbalanced drilling integrated reservoir management and environmental health and safety The sections on natural gas have been updated with new sections on natural gas liquefaction processing natural gas distribution and transport Additionally there are updated and new sections on offshore equipment and operations subsea connection systems production control systems and subsea control systems Standard Handbook of Petroleum and Natural Gas Engineering Third

Edition is a one stop training tool for any new petroleum engineer or veteran looking for a daily practical reference Presents new and updated sections in drilling and production Covers all calculations tables and equations for every day petroleum engineers Features new sections on today s unconventional resources and reservoirs Navigation and Vessel Inspection Circular ,1993 **Shipping Law Handbook** Michael Bundock,2013-07-04 The Shipping Law Handbook brings together all essential source material for anyone involved in shipping disputes This book provides a comprehensive collection of international conventions statutes and statutory instruments arbitration rules and the most commonly encountered bills of lading charterparties insurance clauses guarantees and other contracts The Handbook is a highly practical and essential work for shipping lawyers arbitrators P I Clubs and their correspondents ship owners ship managers agents and brokers Anyone involved in shipping will wish to keep this reference conveniently to hand Time Charters Andrew Baker,Julian Kenny,John D. Kimball,Thomas H. Belknap, Jr.,2014-12-05 Acclaimed as the standard reference work on the law relating to time charters this new edition provides a comprehensive treatment of the subject accessible and useful both to shipping lawyers and to shipowners charterers P The Athena nature of off hire meaning of loss of time time thereby lost The Kyla damage to ship and frustration The Silver Constellation The Savina Caylyn and The Rowan oil company approval of chartered ships The Captain Stefanos The Saldanha The Triton Lark and The Paiwan Wisdom effects of piracy The Kildare and The Wren damages for early termination The T S Singapore off hire where ship going towards but not to the port ordered and The Lehmann Timber The Bulk Chile and The Western Moscow owners liens The new edition also features many significant new U S decisions including Stolt Nielsen v Animal Feeds Intl Supreme Court rules class action arbitration not permitted unless parties agree in arbitration agreement ATHOS I Circuit Court finds that safe berth provision in charterparty is a warranty and not merely a due diligence obligation The M V SAMHO DREAM arbitrators direct petitioner to post 14 2M security on respondent s counterclaim and Maroc Fruit Board v M V VINSON CP arbitration clause incorporated in bill of lading not signed or contained in an exchange of letters or telegrams under NY Convention Legal Issues Relating to Time Charterparties Rhidian Thomas,2020-11-25 Legal Issues Relating to Time Charterparties addresses all the major questions and issues that arise in connection with time charterparties examining them in a logical manner progressively tracing the subject from the creation to the termination of the contract All the salient legal aspects of time charterparties are examined with the law analysed in its commercial context particularly in relation to the various ways in which time charterparties may be used in shipping and international trade **LOGISTICS MANAGEMENT FOR INTERNATIONAL BUSINESS** SUDALAIMUTHU, S. ,RAJ, S. ANTHONY ,2009-04-18 In today s globalised economic development international transactions form an integral part of economic activities Logistics Management encompasses planning and management of all activities involving sourcing and procurement of cargo by effective and economically feasible coordination and collaboration with channel partners and provision of product and service packages from point of origin to point of consumption at the right time and at the right place

This book gives with theoretical and practical expertise a comprehensive coverage of the logistic concepts techniques and their applications in the world cargo industry Besides it provides an in depth understanding of the strategic framework of Logistics Management the technologies and the components used in logistic operations It also covers export import trade and documentations shipping formalities warehouse and inventory management ERP concepts logistics operation of major ports and more Key Feature Case Studies are provided at the end of most chapters which tend a practical orientation to the subject This book is primarily intended as a text for postgraduate students of Management MBA MIB and Commerce M Com IB It will also prove useful for the students of those engineering disciplines where the subject is prescribed as an elective course In addition practising managers in international business will find the book valuable as a reference

Marine Pollution Control Iliana Christodoulou-Varotsi, 2018-04-24 This book discusses in a concise manner the key aspects that are important for the understanding of regulations and managerial framework governing marine pollution It identifies the practical context in which marine pollution comes into play and addresses the international legal regime governing the numerous sources of marine pollution as well as the ways in which these regulations affect the conduct of day to day shipping operations With illustrations case studies emphasis boxes references to case law and to national jurisdictions and other tools facilitating understanding and knowledge readers will find helpful guidance on the sources of marine pollution including ship source pollution and pollution from the offshore oil and gas sector the forms of cooperation needed in order to tackle the prevention management and response to marine pollution overview of MARPOL Convention other key IMO conventions and selected regional regimes legal ramifications including P involvement of the flag State coastal State and port State industry best practice the human element Marine Pollution Control will be a useful guidance tool for shipping Industry professionals P I Clubs Legal practitioners maritime administrators as well as academics and students of marine pollution

Shipbroking and Chartering Practice Evi Plomaritou, Anthony Papadopoulos, 2017-12-12 Now in its eighth edition this classic text is a first point of reference for anyone looking to obtain an understanding of chartering and shipbroking practice It provides hands on commercially focused explanations of chartering business and invaluable advice on how the shipping market operates across a broad range of topics The authors also deal expertly with the legal financial operational and managerial aspects of chartering offering numerous case studies which clearly link theory to practice This new edition has been fully revised and updated to reflect the current trends in chartering practice legal developments and standard forms of charterparties New to this edition Enriched with practical examples covering crucial aspects of chartering and shipbroking business such as voyage estimations freight conversions and tanker calculations New material on day to day laytime principles including Laytime Definitions for Charterparties 2013 associated commentary and relevant examples Shipping Marketing as a modern tool of improving chartering and shipbroking business Expanded coverage of the economic background of chartering including markets vessels cargoes trades and fixtures Freight rates for all vessel types from 1980 to 2015 Updated review of well

known standard charterparty documents including NYPE 2015 together with clauses and wordings commonly applying to various charter types Analytical glossary containing typical terms and abbreviations used in chartering negotiations This book is an essential guide for practitioners in private practice and in house for shipowners and cargo houses as well as those studying shipbroking and chartering

Unconventional Lawmaking in the Law of the Sea Natalie Klein, 2022-03-07

Unconventional Lawmaking in the Law of the Sea explores the ways that actors operating at the international level develop standards of behaviour to regulate varied maritime activities beyond traditional lawmaking Other than conventions and customary international law there is a plethora of international agreements that influence international conduct This soft law or informal law is now prolific in ocean governance and so it is time to consider its significance for the law of the sea This monograph brings together women law of the sea scholars with expertise in specific areas of the law of the sea as well as international law more generally Informal lawmaking is examined in relation to ocean resources maritime security shipping and navigation and the marine environment In each instance there are reflections on the diverse actors processes and outputs shaping the regulation of the oceans The analyses in this book further consider what this activity means within the rules on the sources formation and interpretation of international law The growing reliance on informal agreements to fill legal gaps provides quick responses to pressing matters We must assess and understand these new forms of cooperation in order to influence existing treaties or customary international law

Unconventional Lawmaking in the Law of the Sea surveys the scope of informal lawmaking in the law of the sea and evaluates the significance of this activity for the UN Convention on the Law of the Sea as well as for ocean governance more broadly now and in the future

The Evolving Law and Practice of Voyage Charterparties Rhidian Thomas, 2020-11-25 This addition to the Maritime and Transport Law Library looks at voyage charterparty contracts and addresses complex legal and practical issues arising out of them and their relationship with bills of lading and international sale contracts It offers insightful discussion on other distinctive features of voyage charterparties such as deviation laytime and demurrage seaworthiness and cancellation clauses and on the recent case law developments in jurisdiction and arbitration clauses in voyage charterparty contracts

Lloyd's Register OneOcean's Guide to Port Entry 1987-1988 Nations A-L Lloyd's Register Foundation, 1987-01-01 First published in 1971 these Guides provide invaluable information on thousands of commercial ports and terminals across the globe They are compiled and published annually by LR OneOcean whose years of global maritime experience allows them to provide expert and innovative solutions that enhance efficiency sustainability and overall industry success The Guides cover a significant geographical breadth and the most recent volume includes information on over 12 500 ports harbours and terminals worldwide These are fully indexed and contain detailed port plans and mooring diagrams

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