

OCIMF SHIP TO SHIP TRANSFER GUIDE

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THE OCIMF SHIP TO SHIP TRANSFER GUIDE SERVES AS AN ESSENTIAL RESOURCE FOR MARITIME PROFESSIONALS INVOLVED IN THE TRANSFER OF CARGO, PARTICULARLY LIQUID BULK CARGOES SUCH AS OIL AND PETROCHEMICALS, BETWEEN SHIPS AT SEA. AS INTERNATIONAL TRADE CONTINUES TO GROW, THE IMPORTANCE OF SAFE, EFFICIENT, AND ENVIRONMENTALLY RESPONSIBLE SHIP-TO-SHIP (STS) OPERATIONS CANNOT BE OVERSTATED. THIS COMPREHENSIVE GUIDE, DEVELOPED BY THE OIL COMPANIES INTERNATIONAL MARINE FORUM (OCIMF), PROVIDES INDUSTRY-STANDARD BEST PRACTICES, SAFETY PROTOCOLS, AND OPERATIONAL PROCEDURES TO MINIMIZE RISKS AND ENSURE SMOOTH TRANSFERS IN VARIOUS MARITIME ENVIRONMENTS.

UNDERSTANDING THE OCIMF SHIP TO SHIP TRANSFER GUIDE

WHAT IS THE OCIMF SHIP TO SHIP TRANSFER GUIDE?

THE OCIMF SHIP TO SHIP TRANSFER GUIDE OFFERS DETAILED RECOMMENDATIONS AND PROCEDURES FOR CONDUCTING STS TRANSFERS SAFELY AT SEA OR IN PORT. IT COVERS TECHNICAL, OPERATIONAL, SAFETY, ENVIRONMENTAL, AND SECURITY ASPECTS, SERVING AS A BENCHMARK FOR SHIP OPERATORS, CHARTERERS, PORT AUTHORITIES, AND REGULATORS. THE GUIDE AIMS TO PROMOTE CONSISTENCY, SAFETY, AND ENVIRONMENTAL PROTECTION DURING THESE COMPLEX OPERATIONS.

SCOPE AND APPLICABILITY

LIQUID CARGO TRANSFERS, INCLUDING OIL, CHEMICALS, AND LIQUEFIED GASES OPERATIONS CONDUCTED AT SEA, IN ANCHORAGES, OR AT DESIGNATED TERMINALS

TRANSFER OPERATIONS INVOLVING DIFFERENT VESSEL TYPES SUCH AS TANKERS, BARGES, AND FPSOs

EMERGENCY PROCEDURES AND CONTINGENCY PLANNING

KEY COMPONENTS OF THE OCIMF SHIP TO SHIP TRANSFER GUIDE

PRE-TRANSFER PLANNING AND RISK ASSESSMENT

EFFECTIVE PLANNING IS CRITICAL TO ENSURE A SAFE TRANSFER PROCESS. PRIOR TO ANY OPERATION, A DETAILED RISK ASSESSMENT MUST BE CONDUCTED, CONSIDERING FACTORS SUCH AS WEATHER CONDITIONS, VESSEL COMPATIBILITY, CARGO TYPE, AND ENVIRONMENTAL SENSITIVITIES.

REVIEW OF CARGO COMPATIBILITY AND TRANSFER LIMITS

ASSESSMENT OF WEATHER AND SEA STATE CONDITIONS

VERIFICATION OF VESSEL READINESS AND EQUIPMENT STATUS

COORDINATION WITH PORT AUTHORITIES, PILOTS, AND OTHER STAKEHOLDERS

OPERATIONAL PROCEDURES AND SAFETY MEASURES

THE GUIDE EMPHASIZES STRICT ADHERENCE TO OPERATIONAL PROCEDURES TO MITIGATE RISKS SUCH AS SPILLS, COLLISIONS, AND INJURIES. SOME KEY PROCEDURES INCLUDE:

1. PROPER MOORING AND POSITIONING OF VESSELS
2. USE OF STANDARDIZED TRANSFER EQUIPMENT AND SAFE CONNECTION METHODS
3. IMPLEMENTATION OF COMMUNICATION PROTOCOLS BETWEEN VESSELS AND CONTROL CENTERS
4. MONITORING OF TRANSFER PARAMETERS SUCH AS FLOW RATES AND PRESSURES
5. EMERGENCY SHUTDOWN PROCEDURES AND SPILL RESPONSE READINESS

ENVIRONMENTAL AND SECURITY CONSIDERATIONS

PROTECTING THE ENVIRONMENT IS A CORE ASPECT OF THE OCIMF GUIDELINES. THIS INVOLVES MEASURES SUCH AS:

- ENVIRONMENTAL RISK ASSESSMENTS PRIOR TO OPERATIONS
- USE OF SPILL CONTAINMENT EQUIPMENT
- ADHERENCE TO INTERNATIONAL ENVIRONMENTAL REGULATIONS
- SECURITY MEASURES TO PREVENT UNAUTHORIZED ACCESS AND SABOTAGE

POST-TRANSFER ACTIVITIES

AFTER COMPLETING THE TRANSFER, PROPER PROCEDURES SHOULD BE FOLLOWED FOR:

- DISCONNECTION OF TRANSFER EQUIPMENT
- INSPECTION AND DOCUMENTATION OF TRANSFER PARAMETERS
- REPORTING AND RECORD-KEEPING FOR OPERATIONAL TRANSPARENCY
- DEBRIEFING AND REVIEW TO IDENTIFY LESSONS LEARNED

SAFETY AND ENVIRONMENTAL BEST PRACTICES IN SHIP TO SHIP TRANSFERS

ENSURING SAFETY DURING STS OPERATIONS

SAFETY IS PARAMOUNT DURING SHIP-TO-SHIP TRANSFERS. KEY PRACTICES INCLUDE:

- CONDUCTING COMPREHENSIVE SAFETY DRILLS AND

TRAINING FOR CREW MEMBERS MAINTAINING CLEAR COMMUNICATION CHANNELS BETWEEN VESSELS AND CONTROL CENTERS USING SAFETY BARRIERS AND PROTECTIVE EQUIPMENT 3 MONITORING WEATHER CONDITIONS CONTINUOUSLY AND POSTPONING OPERATIONS IF CONDITIONS DETERIORATE HAVING EMERGENCY RESPONSE PLANS IN PLACE, INCLUDING SPILL RESPONSE AND MEDICAL AID ENVIRONMENTAL PROTECTION STRATEGIES TO MINIMIZE ENVIRONMENTAL IMPACTS, OPERATORS SHOULD: USE DOUBLE HULL TANKERS AND SPILL CONTAINMENT BOOMS IMPLEMENT STRICT WASTE MANAGEMENT PROTOCOLS USE ENVIRONMENTALLY FRIENDLY TRANSFER FLUIDS AND MATERIALS WHERE POSSIBLE ENSURE PROPER DISPOSAL OF RESIDUES AND CLEANING AGENTS MONITOR FOR LEAKS OR SPILLS DURING AND AFTER TRANSFER OPERATIONS EQUIPMENT AND TECHNOLOGY USED IN SHIP TO SHIP TRANSFERS TRANSFER EQUIPMENT THE EFFECTIVENESS AND SAFETY OF STS OPERATIONS DEPEND HEAVILY ON SPECIALIZED EQUIPMENT, INCLUDING: FLEXIBLE HOSES OR PIPELINES DESIGNED FOR MARINE TRANSFER LOADING ARMS AND MANIFOLD SYSTEMS MOORING AND BOLLARD SYSTEMS TO SECURE VESSELS EMERGENCY SHUTDOWN SYSTEMS (ESD) SPILL CONTAINMENT BOOMS AND TRANSFER SHIELDS TECHNOLOGICAL INNOVATIONS AND MONITORING TOOLS ADVANCEMENTS IN TECHNOLOGY HAVE ENHANCED SAFETY AND OPERATIONAL EFFICIENCY THROUGH: REAL-TIME TRANSFER MONITORING SYSTEMS TO TRACK FLOW RATES, PRESSURES, AND TEMPERATURES AUTOMATED CONTROL SYSTEMS FOR EMERGENCY SHUTDOWNS REMOTE SENSING AND SATELLITE TRACKING FOR VESSEL POSITIONING ENVIRONMENTAL SENSORS TO DETECT LEAKS OR SPILLS EARLY DATA MANAGEMENT PLATFORMS FOR RECORD KEEPING AND COMPLIANCE REGULATORY FRAMEWORK AND COMPLIANCE INTERNATIONAL REGULATIONS GOVERNING STS OPERATIONS SHIP-TO-SHIP TRANSFERS ARE GOVERNED BY VARIOUS INTERNATIONAL CONVENTIONS AND REGULATIONS, INCLUDING: 4 INTERNATIONAL MARITIME ORGANIZATION (IMO) REGULATIONS INTERNATIONAL CONVENTION FOR THE PREVENTION OF POLLUTION FROM SHIPS (MARPOL) INTERNATIONAL SAFETY MANAGEMENT (ISM) CODE INTERNATIONAL SHIP AND PORT FACILITY SECURITY (ISPS) CODE ROLE OF PORT STATE AND FLAG STATE AUTHORITIES PORT AND FLAG AUTHORITIES ARE RESPONSIBLE FOR ENSURING COMPLIANCE THROUGH INSPECTIONS, CERTIFICATIONS, AND OVERSIGHT. IT IS VITAL FOR OPERATORS TO COORDINATE WITH THESE AUTHORITIES TO MEET ALL LEGAL AND SAFETY REQUIREMENTS. TRAINING AND COMPETENCY FOR SAFE STS OPERATIONS SKILLED PERSONNEL ARE ESSENTIAL TO CONDUCTING SUCCESSFUL SHIP-TO-SHIP TRANSFERS. TRAINING SHOULD FOCUS ON: OPERATIONAL PROCEDURES AND SAFETY PROTOCOLS EMERGENCY RESPONSE AND SPILL MANAGEMENT EQUIPMENT HANDLING AND MAINTENANCE COMMUNICATION AND COORDINATION SKILLS SECURITY AWARENESS AND COMPLIANCE REQUIREMENTS CONCLUSION: THE IMPORTANCE OF ADHERING TO THE OCIMF SHIP TO SHIP TRANSFER GUIDE ADHERENCE TO THE OCIMF SHIP TO SHIP TRANSFER GUIDE IS CRUCIAL FOR THE SAFETY OF PERSONNEL, PROTECTION OF THE ENVIRONMENT, AND OPERATIONAL EFFICIENCY. BY FOLLOWING ITS COMPREHENSIVE RECOMMENDATIONS, MARITIME STAKEHOLDERS CAN MINIMIZE RISKS ASSOCIATED WITH STS OPERATIONS, ENSURE REGULATORY COMPLIANCE, AND PROMOTE SUSTAINABLE MARITIME TRADE. AS THE INDUSTRY EVOLVES WITH NEW TECHNOLOGIES AND ENVIRONMENTAL STANDARDS, CONTINUOUS REVIEW AND IMPLEMENTATION OF BEST PRACTICES OUTLINED IN THIS GUIDE REMAIN VITAL FOR SAFE AND RESPONSIBLE SHIP-TO-SHIP TRANSFERS. QUESTION ANSWER WHAT ARE THE KEY SAFETY CONSIDERATIONS OUTLINED IN THE OCIMF SHIP-TO-SHIP TRANSFER GUIDE? THE OCIMF SHIP-TO-SHIP TRANSFER GUIDE EMPHASIZES SAFETY CONSIDERATIONS SUCH AS RISK ASSESSMENTS, PROPER PLANNING, EFFECTIVE COMMUNICATION, APPROPRIATE PERSONNEL TRAINING, AND THE USE OF SUITABLE EQUIPMENT TO ENSURE SAFE TRANSFER OPERATIONS. HOW DOES THE OCIMF GUIDE RECOMMEND MANAGING ENVIRONMENTAL RISKS DURING SHIP-TO-SHIP TRANSFERS? THE GUIDE ADVISES IMPLEMENTING MEASURES LIKE SPILL PREVENTION PROTOCOLS, CONTAINMENT BOOMS, AND ENVIRONMENTAL RISK ASSESSMENTS TO MINIMIZE POTENTIAL ENVIRONMENTAL IMPACTS DURING TRANSFERS. 5 WHAT ARE THE VESSEL COMPATIBILITY AND MOORING REQUIREMENTS SPECIFIED IN THE OCIMF TRANSFER GUIDE? THE GUIDE SPECIFIES THE IMPORTANCE OF ASSESSING VESSEL COMPATIBILITY, INCLUDING SIZE, STABILITY, AND MOORING ARRANGEMENTS, TO ENSURE SAFE AND SECURE TRANSFER OPERATIONS, ALONG WITH PROPER MOORING EQUIPMENT AND PROCEDURES. HOW DOES THE OCIMF SHIP-TO- SHIP TRANSFER GUIDE

ADDRESS EMERGENCY RESPONSE PROCEDURES? THE GUIDE RECOMMENDS ESTABLISHING CLEAR EMERGENCY RESPONSE PLANS, INCLUDING SPILL RESPONSE, FIRE FIGHTING, AND EVACUATION PROCEDURES, ALONG WITH REGULAR DRILLS AND COORDINATION WITH LOCAL AUTHORITIES. IN WHAT WAYS DOES THE OCIMF GUIDE SUGGEST ENSURING EFFECTIVE COMMUNICATION DURING TRANSFER OPERATIONS? THE GUIDE EMPHASIZES THE USE OF STANDARDIZED COMMUNICATION PROTOCOLS, BILINGUAL COMMUNICATION IF NECESSARY, AND CONTINUOUS LIAISON BETWEEN VESSELS AND ONSHORE SUPPORT TO PREVENT MISUNDERSTANDINGS AND ENSURE COORDINATION. OCIMF SHIP TO SHIP TRANSFER GUIDE: ENSURING SAFETY, EFFICIENCY, AND ENVIRONMENTAL PROTECTION IN MARITIME OPERATIONS The OCIMF (Oil Companies International Marine Forum) Ship to Ship (STS) Transfer Guide stands as a cornerstone document in the maritime industry, setting the benchmark for safe and environmentally responsible transfer operations at sea. As global trade continues to expand, the reliance on offshore transfer practices has intensified, making comprehensive standards and procedures more critical than ever. This guide not only provides detailed protocols but also fosters a unified approach among oil companies, ship operators, and authorities to minimize risks and enhance operational efficiency. --- INTRODUCTION TO OCIMF AND THE SIGNIFICANCE OF THE STS TRANSFER GUIDE Who is OCIMF? OCIMF is a voluntary industry association comprising major oil companies and maritime operators dedicated to improving the safety and environmental performance of the global oil industry's shipping operations. Its influence extends across various aspects of maritime safety, including vessel design, operational procedures, and crew training. The Role of the STS Transfer Guide The OCIMF's Ship to Ship Transfer Guide serves as a comprehensive manual outlining best practices, safety protocols, and environmental safeguards for offshore transfer operations. Its primary goal is to standardize procedures, reduce incidents, and promote a safety culture among all stakeholders involved in STS transfers. --- OCIMF SHIP TO SHIP TRANSFER GUIDE 6 SCOPE AND APPLICATIONS OF THE OCIMF STS TRANSFER GUIDE Operational Scope The guide covers a broad spectrum of STS transfer scenarios, including: - Crude oil transfers - Petroleum product transfers - Chemical and liquefied gas transfers - Special cargo considerations It applies to: - Both offshore and nearshore transfer operations - Transfers involving various vessel types, including tankers, barges, and floating storage units Target Audience Stakeholders utilizing the guide include: - Ship owners and operators - Terminal and offshore facility managers - Crew members involved in transfers - Regulatory authorities overseeing maritime safety and environmental compliance -- Core Principles and Objectives of the OCIMF STS Transfer Guide Safety First Ensuring the safety of personnel, vessels, and cargo is paramount. The guide emphasizes hazard identification, risk assessment, and the implementation of control measures. Environmental Responsibility Preventing spills and pollution is a core objective, with detailed procedures to minimize environmental impact during transfer operations. Operational Efficiency Standardized procedures aim to optimize transfer operations, reducing downtime and operational costs while maintaining safety and environmental standards. Regulatory Compliance Alignment with international conventions such as MARPOL, SOLAS, and IMO guidelines ensures legal adherence and promotes best practices globally. --- Pre-Transfer Planning and Preparation Risk Assessment and Site Evaluation Before any transfer, a comprehensive risk assessment is conducted considering: - Weather conditions - Sea state - Proximity to navigational hazards - Environmental factors Ocimf Ship To Ship Transfer Guide 7 Sensitivities - Vessel and equipment readiness Site evaluation involves verifying the suitability of the transfer location, accessibility, and emergency response facilities. Transfer Plan Development A detailed transfer plan is developed, outlining: - Transfer procedures - Roles and responsibilities - Communication protocols - Emergency procedures - Environmental safeguards This plan must be reviewed and approved by all stakeholders prior to commencement. Vessel and

EQUIPMENT READINESS ENSURING ALL VESSELS AND TRANSFER EQUIPMENT (HOSES, VALVES, SAFETY DEVICES) ARE INSPECTED, MAINTAINED, AND CERTIFIED FOR OPERATION. CREW MUST BE TRAINED AND FAMILIAR WITH THE TRANSFER PLAN. COMMUNICATION AND COORDINATION CLEAR COMMUNICATION CHANNELS ARE ESTABLISHED, INCLUDING: - BRIDGE-TO-BRIDGE COMMUNICATION - LINKS WITH OFFSHORE AND ONSHORE SUPPORT TEAMS - USE OF STANDARDIZED LANGUAGE AND SIGNALS COORDINATION MEETINGS ARE HELD TO CONFIRM ROLES, PROCEDURES, AND CONTINGENCY PLANS. --- OPERATIONAL PROCEDURES DURING SHIP TO SHIP TRANSFERS VESSEL POSITIONING AND MOORING PRECISE POSITIONING OF VESSELS IS CRITICAL: - USE OF DYNAMIC POSITIONING SYSTEMS WHEN AVAILABLE - MOORING ARRANGEMENTS TAILORED TO SEA CONDITIONS - CONTINUOUS MONITORING OF VESSEL POSITIONS PROPER MOORING ENSURES STABILITY AND SAFETY DURING TRANSFER. CARGO TRANSFER OPERATIONS KEY STEPS INCLUDE: - CONNECTING TRANSFER HOSES SECURELY - CONDUCTING LEAK TESTS BEFORE BEGINNING TRANSFER - MAINTAINING APPROPRIATE TRANSFER RATES - MONITORING CARGO TEMPERATURES, PRESSURES, AND FLOW RATES OPERATORS MUST BE VIGILANT FOR SIGNS OF LEAKS, HOSE FAILURES, OR OTHER ANOMALIES. SAFETY MEASURES AND EMERGENCY PREPAREDNESS - CONTINUOUS OBSERVATION FOR SIGNS OF DISTRESS OR HAZARD - READINESS TO DISCONNECT HOSES PROMPTLY - USE OF EMERGENCY SHUTDOWN PROCEDURES - MAINTAINING SAFETY EQUIPMENT ACCESSIBLE (FIREFIGHTING, SPILL CONTAINMENT) REGULAR DRILLS AND TRAINING REINFORCE CREW OCIMF SHIP TO SHIP TRANSFER GUIDE 8 PREPAREDNESS. ENVIRONMENTAL SAFEGUARDS - USE OF SPILL CONTAINMENT SYSTEMS - MONITORING FOR POTENTIAL LEAKS - IMMEDIATE RESPONSE PLANS FOR SPILLS OR LEAKS - MINIMIZING TRANSFER DURATION TO REDUCE EXPOSURE RISK --- POST-TRANSFER PROCEDURES AND DOCUMENTATION DISCONNECTION AND DEBRIEFING ONCE TRANSFER IS COMPLETE: - HOSES ARE DISCONNECTED FOLLOWING SAFETY PROTOCOLS - VESSELS ARE CHECKED FOR LEAKS OR RESIDUAL CARGO - DEBRIEFINGS ARE CONDUCTED TO EVALUATE THE OPERATION DOCUMENTATION AND RECORD-KEEPING ACCURATE RECORDS ARE ESSENTIAL FOR COMPLIANCE AND ANALYSIS, INCLUDING: - TRANSFER LOGS DETAILING QUANTITIES, TIMES, AND CONDITIONS - INCIDENT AND ANOMALY REPORTS - MAINTENANCE AND INSPECTION RECORDS - ENVIRONMENTAL MONITORING DATA REPORTING AND FEEDBACK ANY INCIDENTS, NEAR MISSES, OR DEVIATIONS ARE REPORTED TO RELEVANT AUTHORITIES AND STAKEHOLDERS. FEEDBACK MECHANISMS HELP IMPROVE FUTURE OPERATIONS. --- SAFETY AND ENVIRONMENTAL MANAGEMENT SYSTEMS (SEMS) THE OCIMF GUIDE ADVOCATES FOR AN INTEGRATED APPROACH THROUGH ROBUST SAFETY AND ENVIRONMENTAL MANAGEMENT SYSTEMS: - REGULAR AUDITS AND INSPECTIONS - CONTINUOUS CREW TRAINING AND COMPETENCY ASSESSMENTS - IMPLEMENTATION OF LESSONS LEARNED - ADOPTION OF NEW TECHNOLOGIES AND BEST PRACTICES THIS SYSTEMATIC APPROACH FOSTERS A SAFETY CULTURE AND ENSURES ONGOING COMPLIANCE. --- TECHNOLOGICAL INNOVATIONS SUPPORTING STS OPERATIONS RECENT TECHNOLOGICAL ADVANCEMENTS ENHANCE SAFETY AND OPERATIONAL EFFICIENCY: - DYNAMIC POSITIONING (DP) SYSTEMS: PRECISE VESSEL STATION-KEEPING WITHOUT MOORING LINES - REMOTE MONITORING AND CONTROL: REAL-TIME DATA ON CARGO AND ENVIRONMENTAL PARAMETERS - AUTOMATED HOSE CONNECTION SYSTEMS: REDUCING MANUAL HANDLING RISKS - ENVIRONMENTAL SENSORS: DETECTING LEAKS OR SPILLS EARLY - COMMUNICATION TECHNOLOGIES: SATELLITE LINKS AND DIGITAL PLATFORMS FOR COORDINATION THE INTEGRATION OF THESE TECHNOLOGIES ALIGNS WITH THE OCIMF'S EMPHASIS ON INNOVATION-DRIVEN SAFETY. --- OCIMF SHIP TO SHIP TRANSFER GUIDE 9 CHALLENGES AND FUTURE TRENDS IN SHIP TO SHIP TRANSFERS WHILE THE OCIMF GUIDE PROVIDES A ROBUST FRAMEWORK, CHALLENGES PERSIST: - ADVERSE WEATHER CONDITIONS LIMITING TRANSFER WINDOWS - INCREASING COMPLEXITY WITH CHEMICAL AND LNG TRANSFERS - NAVIGATIONAL RISKS IN CONGESTED OR ENVIRONMENTALLY SENSITIVE AREAS - ENSURING COMPLIANCE AMID EVOLVING INTERNATIONAL REGULATIONS FUTURE TRENDS POINT TOWARDS: - GREATER AUTOMATION AND REMOTE OPERATIONS - ENHANCED SIMULATION-BASED TRAINING - DEVELOPMENT OF ENVIRONMENTALLY FRIENDLY TRANSFER TECHNOLOGIES - MORE COMPREHENSIVE DATA SHARING PLATFORMS FOR TRANSPARENCY AND SAFETY --- CONCLUSION: THE OCIMF STS TRANSFER GUIDE AS A PILLAR OF MARITIME SAFETY THE OCIMF SHIP TO SHIP TRANSFER GUIDE EXEMPLIFIES THE MARITIME INDUSTRY'S COMMITMENT TO SAFETY, ENVIRONMENTAL

STEWARDSHIP, AND OPERATIONAL EXCELLENCE. BY ESTABLISHING STANDARDIZED PROCEDURES, PROMOTING BEST PRACTICES, AND ENCOURAGING CONTINUOUS IMPROVEMENT, IT PLAYS A VITAL ROLE IN MITIGATING RISKS ASSOCIATED WITH OFFSHORE TRANSFER OPERATIONS. AS MARITIME TRADE EVOLVES, THE GUIDE'S PRINCIPLES WILL REMAIN CENTRAL TO SAFEGUARDING PERSONNEL, VESSELS, CARGO, AND THE MARINE ENVIRONMENT, FOSTERING A SAFER AND MORE SUSTAINABLE FUTURE FOR GLOBAL ENERGY TRANSPORTATION. OCIMF, SHIP TO SHIP TRANSFER, STS TRANSFER, OFFSHORE LOADING, MARITIME SAFETY, TRANSFER OPERATIONS, OIL SPILL PREVENTION, MARINE SAFETY GUIDELINES, TANKER TRANSFER PROCEDURES, OFFSHORE OIL INDUSTRY

SHIP TO SHIP TRANSFER GUIDE FOR PETROLEUM, CHEMICALS AND LIQUEFIED GASES
SHIP TO SHIP TRANSFER GUIDE (PETROLEUM)
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SHIP TO SHIP TRANSFER GUIDE
LNG SHIP TO SHIP TRANSFER GUIDELINES
LLOYD'S REGISTER ONE OCEAN'S
GUIDE TO PORT ENTRY 1985-1986
REVISED RECOMMENDATIONS ON THE SAFE TRANSPORT OF DANGEROUS CARGOES AND RELATED ACTIVITIES IN
PORT AREAS
LLOYD'S REGISTER ONE OCEAN'S GUIDE TO PORT ENTRY 1989-1990
NATIONS A-L
VOYAGE CHARTERS
LLOYD'S REGISTER
ONE OCEAN'S GUIDE TO PORT ENTRY 1987-1988
NATIONS A-L
SHIP TO SHIP TRANSFER GUIDE
FEDERAL REGISTER
LEES' LOSS PREVENTION IN THE
PROCESS INDUSTRIES
Ics-Ocimf
INTERNATIONAL CHAMBER OF SHIPPING
Ocimf
INTERNATIONAL CHAMBER OF SHIPPING
INTERNATIONAL CHAMBER OF SHIPPING
GET AL
INTERNATIONAL CHAMBER OF SHIPPING (LONDON)
SOCIETY OF INTERNATIONAL GAS TANKER AND TERMINAL OPERATORS
LLOYD'S
REGISTER FOUNDATION
INTERNATIONAL MARITIME ORGANIZATION
LLOYD'S REGISTER FOUNDATION
JULIAN COOKE
LLOYD'S REGISTER FOUNDATION
FRANK LEES

SHIP TO SHIP TRANSFER GUIDE FOR PETROLEUM, CHEMICALS AND LIQUEFIED GASES SHIP TO SHIP TRANSFER GUIDE FOR PETROLEUM, CHEMICALS AND LIQUEFIED GASES SHIP TO SHIP TRANSFER GUIDE (PETROLEUM) SHIP TO SHIP TRANSFER GUIDE SHIP TO SHIP TRANSFER GUIDE, PETROLEUM SHIP TO SHIP TRANSFER GUIDE SHIP TO SHIP TRANSFER GUIDE (PETROLEUM) SHIP TO SHIP TRANSFER GUIDE SHIP TO SHIP TRANSFER GUIDE (PETROLEUM). SHIP TO SHIP TRANSFER GUIDE (PETROLEUM) SHIP TO SHIP TRANSFER GUIDE LNG SHIP TO SHIP TRANSFER GUIDELINES LLOYD'S REGISTER ONEOCEAN'S GUIDE TO PORT ENTRY 1985-1986 REVISED RECOMMENDATIONS ON THE SAFE TRANSPORT OF DANGEROUS CARGOES AND RELATED ACTIVITIES IN PORT AREAS LLOYD'S REGISTER ONEOCEAN'S GUIDE TO PORT ENTRY 1989-1990 NATIONS A-L VOYAGE CHARTERS LLOYD'S REGISTER ONEOCEAN'S GUIDE TO PORT ENTRY 1987-1988 NATIONS A-L SHIP TO SHIP TRANSFER GUIDE FEDERAL REGISTER LEES' LOSS PREVENTION IN THE PROCESS INDUSTRIES ICS-OCIMF INTERNATIONAL CHAMBER OF SHIPPING OCIMF INTERNATIONAL CHAMBER OF SHIPPING INTERNATIONAL CHAMBER OF SHIPPING ET AL INTERNATIONAL CHAMBER OF SHIPPING (LONDON) SOCIETY OF INTERNATIONAL GAS TANKER AND TERMINAL OPERATORS LLOYD'S REGISTER FOUNDATION INTERNATIONAL MARITIME ORGANIZATION LLOYD'S REGISTER FOUNDATION JULIAN COOKE LLOYD'S REGISTER FOUNDATION FRANK LEES

GENERAL PRINCIPLES CONDITIONS AND REQUIREMENTS COMMUNICATIONS GENERAL COMMUNICATIONS LANGUAGE PRE ARRIVAL COMMUNICATIONS

THE PURPOSE OF THIS DOCUMENT IS TO OFFER GUIDANCE TO THE MASTERS AND OPERATORS OF VESSELS UNDERTAKING SIDE BY SIDE SHIP TO SHIP STS TRANSFER OR LIGHTERING OF LIQUEFIED NATURAL GAS LNG

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

GUIDANCE ON THE SAFE TRANSPORT OF DANGEROUS CARGOES COVERING OILS NOXIOUS LIQUID CHEMICALS AND GASES CARRIED IN BULK SOLID BULK MATERIALS POSSESSING CHEMICAL HAZARDS SOLID BULK MATERIALS HAZARDOUS ONLY IN BULK HARMFUL SUBSTANCES IN PACKAGED FORM AND RELATED ACTIVITIES IN PORT AREAS AS PART OF THE TRANSPORT CHAIN WAS FIRST CIRCULATED BY THE IMO IN 1973 THIS IS THE 3RD EDITION OF THE GUIDANCE WHICH INCLUDES A NEW CHAPTER ON SECURITY PROVISIONS A NEW ANNEX ON FUMIGATION OF CARGO AREAS A NEW GLOSSARY OF TERMINOLOGY AND UP TO DATE RECOMMENDATIONS FOR THE IMDG CODE AND OTHER RELEVANT CODES

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WIDELY REGARDED AS THE LEADING AUTHORITY ON VOYAGE CHARTERS THIS BOOK IS THE MOST COMPREHENSIVE AND INTELLECTUALLY RIGOROUS ANALYSIS OF THE AREA IS REGULARLY CITED IN COURT AND BY ARBITRATORS AND IS THE GO TO GUIDE FOR DRAFTING AND DISPUTING CHARTERPARTY CONTRACTS VOYAGE CHARTERS PROVIDES THE READER WITH A CLAUSE BY CLAUSE ANALYSIS OF THE TWO MAJOR CHARTERPARTY FORMS THE GENCON STANDARD CHARTERPARTY CONTRACT AND THE ASBATANKVOY FORM IT ALSO DELIVERS THOROUGH TREATMENT OF COGSA AND THE HAGUE AND HAGUE VISBY RULES A COMPARATIVE ANALYSIS OF ENGLISH AND UNITED STATES LAW AND A DETAILED SECTION ON ARBITRATION AWARDS THIS BOOK IS AN INDISPENSABLE PRACTICAL GUIDE FOR BOTH CONTENTIOUS AND NON CONTENTIOUS SHIPPING LAW PRACTITIONERS AND POSTGRADUATE STUDENTS STUDYING THIS AREA OF LAW

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

EARLIER ED HELD

OVER THE LAST THREE DECADES THE PROCESS INDUSTRIES HAVE GROWN VERY RAPIDLY WITH CORRESPONDING INCREASES IN THE QUANTITIES OF HAZARDOUS MATERIALS IN PROCESS STORAGE OR TRANSPORT PLANTS HAVE BECOME LARGER AND ARE OFTEN SITUATED IN OR CLOSE TO DENSELY POPULATED AREAS INCREASED HAZARD OF LOSS OF LIFE OR PROPERTY IS CONTINUALLY HIGHLIGHTED WITH INCIDENTS SUCH AS FLIxborough Bhopal Chernobyl Three Mile Island The Phillips 66 Incident and Piper Alpha to name but a few the field of loss prevention is and continues to be of supreme importance to countless companies municipalities and governments around the world because of the trend for processing plants to become larger and often be situated in or close to densely populated areas thus increasing the hazard of loss of life or property this book is a detailed guidebook to defending against these and many other hazards it could without exaggeration be referred to as the bible for the process industries this is the standard reference work for chemical and process engineering safety professionals for years it has been the most complete collection of information on the theory practice design elements equipment regulations and laws covering the field of process safety an entire library of alternative books and cross referencing systems would be needed to replace or improve upon it but everything of importance to safety professionals engineers and managers can be found in this all encompassing reference instead frank lees world renowned work has been fully revised and expanded by a team of leading chemical and process engineers working under the guidance of one of the world's chief experts in this field sam mannan is professor of chemical engineering at texas a m university and heads the mary kay o connor process safety center at texas a m he received his ms and ph d in chemical engineering from the university of oklahoma and joined the chemical engineering department at texas a m university as a professor in 1997 he has over 20 years of experience as an engineer working both in industry and academia new detail is added to chapters on fire safety engineering explosion hazards analysis and suppression and new appendices feature more recent disasters the many thousands of references have been updated along with standards and codes of practice issued by authorities in the us uk europe and internationally in addition to all this more regulatory relevance and case studies have been included in this edition written in a clear and concise style loss prevention in the process industries covers traditional areas of personal safety as well as the more technological aspects and thus provides balanced and in depth coverage of the whole field of safety and loss prevention a must have standard reference for chemical and process engineering safety professionals the most complete collection of information on the theory practice design elements equipment and laws that pertain to process safety only single work to provide everything principles practice codes standards data and references needed by those practicing in the field

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