



Europe and Africa Regional Marine Forum ISGOTT 6 Revision

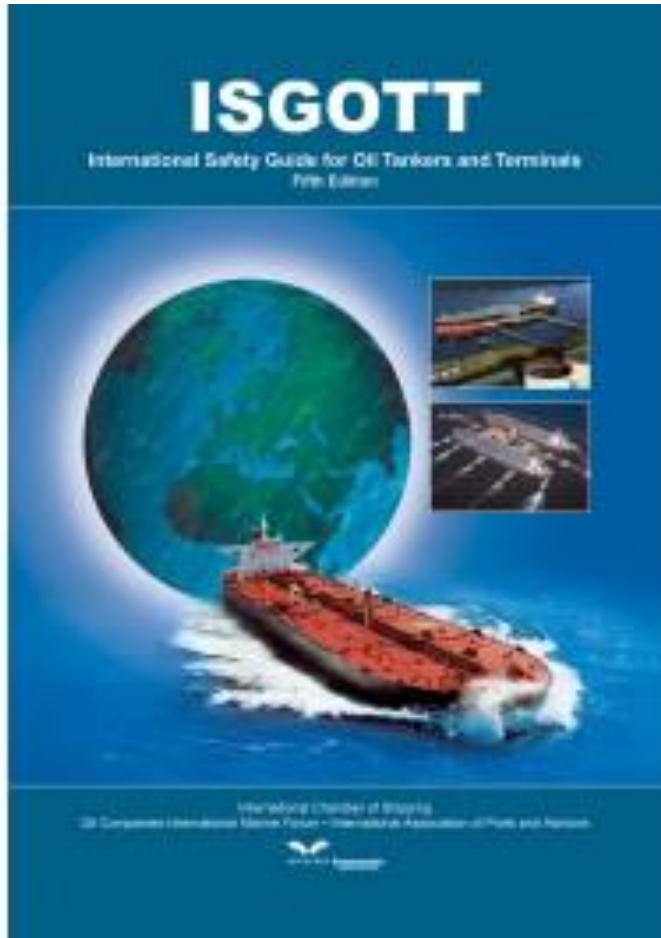
Andy Dogherty – ISGOTT Project Adviser



ISGOTT 5

- **Published 2006**
 - Will be approx. 14 years old on publication of ISGOTT6 Revision
- **Co-authored with;**
 - International Chamber of Shipping (ICS) and
 - International Association of Ports and Harbors (IAPH)
- **ISGOTT5 technical content in 26 Chapters;**
 - Circa 400 pages; approx 370 text/30 drawings and tables
- **Chapters split into 4 Parts;**
 - Part 1 – General Information
 - Part 2 – Tanker Information
 - Part 3 – Terminal Information
 - Part 4 – Management of the Tanker and Terminal Interface

ISGOTT – A Long History



IOTTSG

(International Oil Tanker & Terminal Safety Guide)

- 1st Edition circa 1968-70
 - *Produced by the International Oil Tanker Terminal Safety Group*
 - *OCIMF formed 1970*
 - *Responsibility for IOTTSG given to OCIMF*
- 2nd Edition 1974
 - *Produced by OCIMF*

ISGOTT

(International Safety Guide for Oil Tankers & Terminals)

- 1st Edition – 1978
 - *Collaboration with ICS combining the Tanker Safety Guide (Petroleum)*
- 2nd Edition – 1984
 - *Co-author includes IAPH for first time*
- 3rd Edition – 1988
 - *(3rd Edition Revised 1991)*
- 4th Edition – 1996
- 5th Edition – 2006

ISGOTT 5 – PART 1

- **Chapter 1 – Basic Properties of Petroleum**
 - Theory on physical and chemical properties having greatest bearing on hazards arising from handling petroleum liquids
- **Chapter 2 – Hazards of Petroleum**
 - Establishes background for practices adopted in ISGOTT, including discussion on gas evolution, dispersion and detection
- **Chapter 3 – Static Electricity**
 - Describes hazards & risks from static generation and discharge during operations, particularly in flammable atmospheres
- **Chapter 4 – General Hazards for Ship and Terminal**
 - Deals primarily with general hazards on board tankers and/or terminals and precautions necessary to mitigate.
- **Chapter 5 – Fire-fighting**
 - Describes types of fires that maybe encountered on tankers and terminals, and methods of extinction
- **Chapter 6 – Security**
 - Brief summary on major provisions arising from ISPS Code

ISGOTT 5 – PART 2

- **Chapter 7 – Shipboard Systems**
 - Covers principal ship systems used during cargo & ballast ops
- **Chapter 8 – Ship’s Equipment**
 - Ship equipment provided for fire-fighting, gas measurement and lifting ops
- **Chapter 9 – Management of Safety and Emergencies**
 - Recommended practices for controlling health & safety hazards, and risks
- **Chapter 10 – Enclosed Spaces**
 - Specific focus on hazards and risks around issue of entry into enclosed spaces including testing and permit requirements
- **Chapter 11 – Shipboard Operations**
 - Wide range of ship ops including loading/discharging, tank cleaning, gas freeing, ballasting, COW and STS
- **Chapter 12 – Carriage and Storage of Hazardous Materials**
 - Carriage and storage of hazardous materials as cargo, samples or stores
- **Chapter 13 – Human Element Considerations**
 - Basic human element considerations for safe working environments
- **Chapter 14 – Special ship Types**
 - Additional safety measures to be taken by combination carriers

ISGOTT 5 – PART 3

- **Chapter 15 – Terminal Management and Organisation**
 - Describes risk based systems, processes and procedures needed to ensure safe operations at the terminal
- **Chapter 16 – Terminal Operations**
 - Provides information on terminal operating procedures and activities covering safe custody transfer and handling ships
- **Chapter 17 – Terminal Systems and Equipment**
 - Outlines equipment provided by the terminal at ship/shore interface with particular emphasis on electrical isolation, fendering, lifting equipment, lighting
- **Chapter 18 – Cargo Transfer Equipment**
 - Describes use of cargo handling hoses and/or hard arms
- **Chapter 19 – Safety and Fire Protection**
 - Provides general guidance on safety management at marine terminals, with emphasis on fire detection and protection
- **Chapter 20 – Emergency Preparedness**
 - Provides guidance on the preparation of terminal emergency response plans, the resources and training to support them
- **Chapter 21 – Emergency Evacuation**
 - Describes the basic elements to be included in a terminal evacuation plan and a effective means of emergency escape

ISGOTT 5 – PART 4

- **Chapter 22 – Communications**
 - Provides guidance on the communications between ship and terminal pre-arrival and during time alongside the berth
- **Chapter 23 – Mooring**
 - Details the preparations and procedures necessary to provide for an efficient mooring arrangement at the berth
- **Chapter 24 – Precautions on Ship and Terminal During Cargo Handling**
 - Provides guidance for ship and shore on precautions to be taken during various marine operations
- **Chapter 25 – Bunkering Operations**
 - Provides guidance on the planning and execution of bunkering operations including use of a pre-transfer checklist
- **Chapter 26 – Safety Management**
 - Provides details required to effectively manage the safety of the primary ship/shore interface inc SSSCL

ISGOTT 6 – Revision Terms of Reference

- Review and confirm target audiences, with particular consideration to the publications scope
- Update list of relevant references to ISO standards and regulations including but not limited to SOLAS, MARPOL etc
- Correct known anomalies within ISGOTT5 utilising input from data held by the co-authors
- Make recommendations on layout of the document based on target audience inc. content handling e.g. electronic/portable
- Enhance guidance on safety management processes e.g. Risk Assessment, PTW and MoC.
- Enhance guidance on Human Factors processes to assess safety critical tasks and measures to protect workforce
- Create opportunity for technological advances and guidance on the evaluation and selection of emerging or alternative technologies that will enhance the safety philosophy

ISGOTT 6 – Revision

General Comments

- **To date 500+ comments received**
 - Mainly minor amendments, enhancements being suggested
 - Few major revision items being proposed
- **Minimum expectations include;**
 - Updates for;
 - changes to regulations and standards
 - to OCIMF/industry best practice guidance inc MTMSA, SIRE
 - new equipment and changes in technology
 - Review effectiveness of changes to ISGOTT 5 e.g. Static
- **Publication size, portability and user friendliness**
 - Consideration to develop electronic/portable version
- **Concurrence for alignment on guidance to current issues;**
 - Human Element
 - Effective Safety Management Systems
 - Risk assessment; PTW; SSSCL etc.

ISGOTT 6 – Revision

General Comments

- **Chapters gaining primary attention;**
 - 40+ general comments;
 - ✓ content/layout, format, regs, new items etc.
 - Part 1: 70+ comments; Ch.2(26) & Ch.4(27)
 - ✓ Ch.2 – SDS and gas measurement
 - ✓ Ch.4 - Ignition sources inc. electronic equipment and hazardous zones.
 - Part 2: 130+ comments; Ch.7(34), Ch.10(21) and Ch.11(49)
 - ✓ Ch.7 – Tank atmosphere control and use of IG
 - ✓ Ch.10 – Enclosed space entry
 - ✓ Ch.11 – Wide range of enhancements suggested
 - Part 3: 180+ comments; Ch.16(29), Ch.17(40), Ch.18(42) & Ch.19(52)
 - ✓ Ch.16 – Electrical storms, double-banking and pressures surges
 - ✓ Ch.17 – Bonding, insulation flanges and testing
 - ✓ Ch.18 – Cargo hose standards and electrical continuity tests
 - ✓ Ch.19 – Fire protection; detection/alarm systems & fire fighting equipment
 - Part 4: 70+ comments; Ch.26(37)
 - ✓ Ch.26 – Ship/shore safety checklist items; clarifications and enhancements

ISGOTT 6 – Revision

Sample Comments

Miscellaneous

New, alternative and emerging technologies	Misc.			Comprehensive guidance and recommendations with regards to use of newer technologies like Emergency release coupling, load monitoring hooks, Digital berthing aids, Ship-Shore linked emergency stops (as per OCIMF paper). The Ship-shore linked emergency stop could be recommended for all tankers and terminals as a safety measure against pressure surges and pollution prevention.
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Part 1

Differing types of and segregation of fuels onboard	2.7			Capture the transition of types of fuels used and concerns around the loading and segregation of the fuels on board. LNG / LPG come to mind but also the increased vigilance around low sulphur fuel oil blends [down to 0.5%] and incompatibility
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Part 2

ISGOTT predates newer industry practices/guidance (Energy Institute)	11.5			Update/reference ISGOTT for EI best practice in HM40 – Guidelines for the crude oil washing of ships' tanks and the heating of crude oil transported by sea
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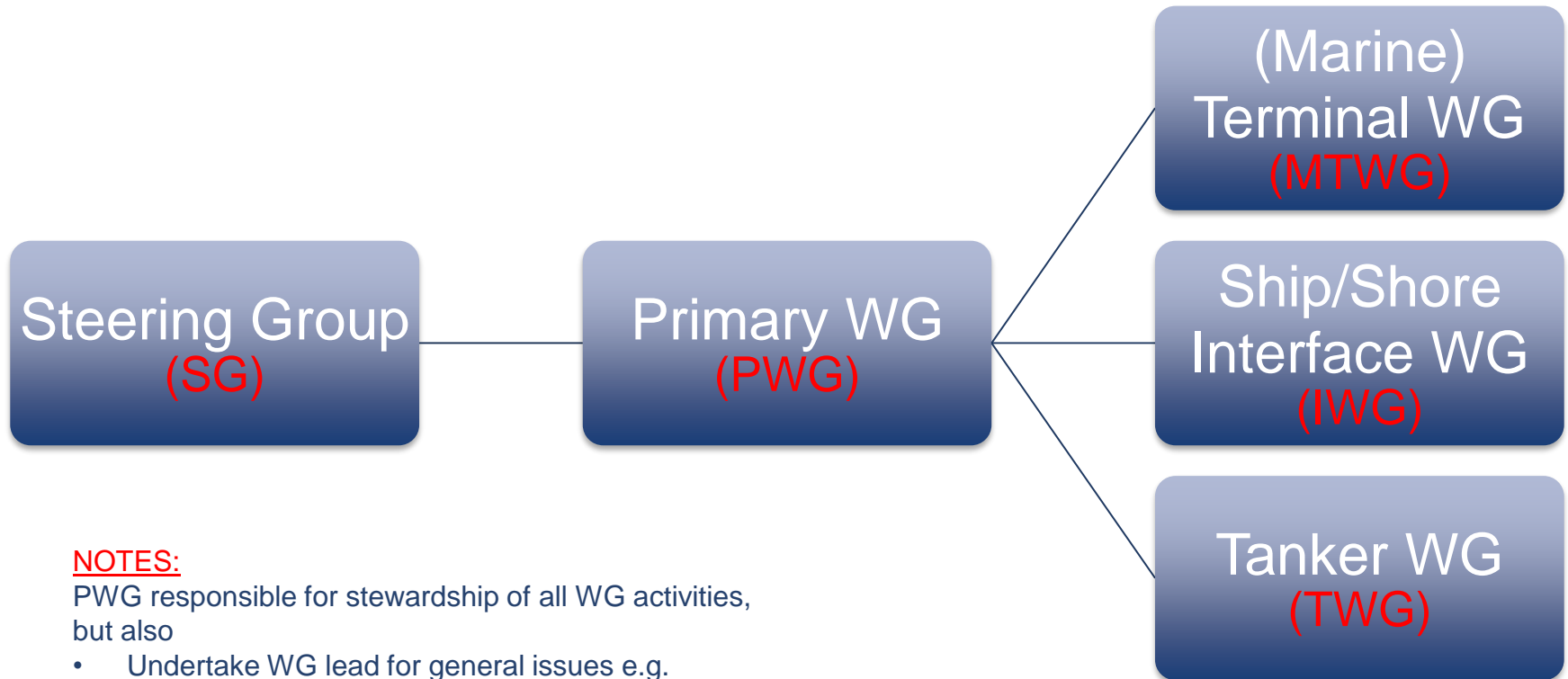
Part 3

Electrical Storms/Lightning	16.3 (26.4)			In the case of the lightning guidance, an opportunity to provide clearer guidance on the subject in ISGOTT as not only have ships been struck but also shore tanks with subsequent major fires/explosions and happening way too often.
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Part 4

Double Banking	26.3 (16.5)			Missing a checklist for alongside STS or across the berth. Updates to SSSCL
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ISGOTT 6 – Revision Organisation - General



NOTES:

PWG responsible for stewardship of all WG activities, but also

- Undertake WG lead for general issues e.g. publication layout
- Interface on specialist topics e.g. HF
- Coordinator of special project and research/study requests, and conduit for funding requests to SG.

ISGOTT 6 – Revision

Workflow Management

- **Planned publication date – April 2020**
 - Steering Group target handover to editorial team before Nov. 2019.
- **Meeting Timelines**
 - Steering group – 6 monthly
 - ✓ SG 02 planned for September 2018
 - Working Groups – 2 monthly
 - ✓ WG 02 planned for July 2018
 - ✓ Provides opportunity for 9-10 F2F WG meetings.
- **Cross industry participation**
 - Attendees from all co-authors
 - ✓ Currently 40+ different member representatives across SG and WG's
 - Expectation to expand expert group to other industry associations and SME organisations on ad hoc basis e.g.;
 - ✓ Targeted equipment manufacturers, Human Factors experts etc
- **Project Management**
 - Dedicated resource interface between Secretariat/s and Editor/s

ISGOTT 6

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If it looks fake, that's because it is a fake!



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BACK UP



Chapter 1

Basic Properties of Petroleum

First Chapter in PART 2 – Tanker Information

- **Theory on physical and chemical properties having greatest bearing on hazards arising from handling petroleum liquids**
 - Chapter focuses on the theory that stands test of time
- **Content 6 pages – approx 1 page drawings**
- **OCIMF Comments**
 - Review required but ,most information remains unchanged
 - With increasing use of LNG bunkers, consider an inclusion of more information on liquefied gases e.g. LNG
- **ICS Comments**
 - Nil to date.

Chapter 2

Hazards of Petroleum

- **Establishes background for practices adopted in ISGOTT**
 - Includes discussion on gas evolution, dispersion and detection
- **Content 42 pages – approx 5 pages in total of drawings**
- **OCIMF Comments**
 - Critical Chapter establishing key safety background and principles
 - Discusses issues on Benzene, H₂S, IG and other toxic gases
 - Verify against current health standards exposure limits (TLV etc)
 - 13 pages on gas detection and equipment
 - Requires review against current technology (fixed/portable)
 - Engagement with manufacturers required.
 - IMO SOLAS '*Special measures to enhance maritime safety*'
 - SOLAS XI-1/7 (MSC.1/Circ.1477 and Assembly Resolution 1050(27))
 - With increasing use of LNG bunkers, consider an inclusion of more information on liquefied gases e.g. LNG
- **ICS Comments**
 - Similar to above ref TLV/TWA, Toxic Gases & Gas Detection
 - Also refer to MSDS, SO_x & SECA

Chapter 3

Static Electricity

- **Describes hazards & risks from static generation and discharge during operations, particularly in flammable atmospheres**
 - Establishes theory and principles of 'Electrostatics' including;
 - Charge separation, accumulation, discharge and conductivity.
- **Content 11.5 pages – approx 0.5 page – conductivity table**
- **OCIMF Comments**
 - Critical Chapter establishing key safety principles
 - Interface with Section 2 – Shipboard Operations
 - Specific research work during ISGOTT 5 on handling static accumulator oils (11.1.7 initial flow rates, spread loading etc)
 - Additional study on loading flow rates recommended for ISGOTT 5 but cost and time prohibitive and not supported – potential to reconsider
 - Suggest this Chapter requires revalidation of principles and operating guidance against current Standards.
- **ICS Comments**
 - Nil to date

Chapter 4

General Hazards for Ship & Terminal

- **Deals primarily with general hazards on board tankers and/or terminals and precautions necessary to mitigate.**
 - Establishes general principles, ignition sources, management of dangerous areas and electrical equipment inc. portable equipment;
 - Includes section covering ongoing concerns around mobile phones and other portable electronic equipment.
- **Content 15.5 pages – Nil drawings**
- **OCIMF Comments**
 - Chapter covers topical issues including concerns for use of personal electronic devices including mobile phones.
 - Should be reviewed in context with SIRE inspection/inspectors tools
 - Use of cameras and other survey items e.g. drones.
- **ICS Comments**
 - Note that pagers mentioned but outdated technology
 - Query ref to switching VHF to low power mode during cargo ops.

Chapter 5

Fire-Fighting

- **Describes types of fires that maybe encountered on tankers and terminals, and methods of extinction.**
 - Outlines fire theory, types of fire and extinguishing mediums
- **Content 6 pages – Nil drawings**
- **OCIMF Comments**
 - Basic Chapter with limited details
 - given importance of topic is it sufficiently covered here or,
 - is topic more appropriately covered elsewhere?
 - Would benefit from review by fire authority particularly for shore facilities and how emergency services would deal with tanker fires
 - See also Chapter 19
 - Should be cross referenced to IMO SOLAS II-2 including FSS Code .
 - Currently not mentioned but contains relevant information.
- **ICS Comments**
 - Nil to date

Chapter 6

Security

- **Brief summary on major provisions arising from ISPS Code**
 - Outlines general requirements for ships and terminals including need for security plans and procedures.
- **Content 2 pages – Nil drawings**
- **OCIMF Comments**
 - Very basic content with limited details beyond Code responsibilities
 - Would benefit from upgrade to leverage best practices from;
 - lessons learned since implementation; ship and shore
 - heightened global security awareness introducing practices above ISPS Code requirements
 - Piracy and Terrorist threats in port and alongside.
- **ICS Comments**
 - Nil to date

Chapter 7

Shipboard Systems

First Chapter in PART 2 – Tanker Information

- **Comprehensive Chapter on principal ship systems used during cargo and ballast operations**
 - Covers wide range of activities including IGS, tank venting, cargo and ballast operations.
- **Content 19.5 pages – 0.5 pages table**
- **OCIMF Comments**
 - Informative section that complements ship operations procedures
 - Would benefit from upgrade.
 - ballasting focus tends towards older tanker types
 - Recent changes to IGS requirements suggest this be looked at in detail to ensure revised industry thinking on usage is reflected.
 - Would benefit from further detail on IG system types (conventional v N₂) along with pros/cons (chemical interactions etc)
- **ICS Comments**
 - Nil to date

Chapter 8

Ship's Equipment

- **Describes shipboard equipment provided for fire-fighting, gas measurement and lifting operations**
 - Interfaces with prior chapters covering general principles around topics.
- **Content 7 pages – 0.5 pages table**
- **OCIMF Comments**
 - Limited information that would benefit from being updated
 - Gas measurement in particular should be updated to capture current technology (e.g. fixed systems) and SOLAS expectations.
 - Challenge whether Chapter captures important or 'critical' equipment necessary for vessel safety at terminals e.g.
 - Equipment in use to supplement/mitigate reduced manning
 - benefit on at least referencing in basic detail MEG?
- **ICS Comments**
 - Nil to date

Chapter 9

Management of Safety and Emergencies

- **Establishes principles and recommended practices for controlling health & safety hazards, and risks on board**
 - Key interface with ISM Code requirements covering SMS
 - Includes guidance on;
 - risk assessment, PTW systems inc. enclosed space entry & hot work
 - management of contractors, including repairs onboard
 - Shipboard emergency management
- **Content 22.5 pages – 2.5 pages tables**
- **OCIMF Comments**
 - Important Chapter – needs review/enhancement to ensure best practice
 - Topics covered remain areas for concern and incidents, including;
 - PTW and issues around enclosed space entry and hot work
 - management of emergencies, in particular with reduced manning
 - Area for attention with vetting/assurance; TMSA (SMS) and SIRE
- **ICS Comments**
 - Suggest review around hot work and gas safety zones

Chapter 10

Enclosed Spaces

- **Describes hazards and risks around issue of entry into enclosed spaces including testing and permit requirements**
 - Interfaces with earlier Chapters on toxic gases and SMS
 - Provides guidance on atmosphere tests, entry control, safeguards (including protective equipment), and emergency procedures
 - Includes details on requirements for pumphouse entry
- **Content 18 pages – Nil drawings/tables.**
- **OCIMF Comments**
 - Important Chapter – topical area for concern and incidents
 - Review/enhancement required to ensure best practice
 - Review against IMO SOLAS requirements
 - Special measures to enhance maritime safety
 - Suggest engage MAIIF (<http://maiif.org>) to review incident trends
 - Review technology/techniques; e.g. lock-out/tag-out, EEBD's etc
 - *Human Factors – see commentary Chapter 13*
- **ICS Comments**
 - Seeking more guidance on signs and tagging of enclosed spaces and use of cartridge filters and masks in enclosed spaces.

Chapter 11

Shipboard Operations

- **Provides information on a wide range of shipboard operations including loading/discharging cargoes, tank cleaning, gas freeing, ballasting, COW and STS.**
 - Interfaces with brief details in several earlier Chapters
 - Complements ship/company SMS/procedures
- **Content 58.5 pages – approx 4.5 pages drawings/tables.**
- **OCIMF Comments**
 - Important Chapter – many significant operational areas covered
 - Review/enhancement required to ensure reflects topical areas
 - Needs modernising as several topics require more, some less, emphasis
 - STS now primarily covered in OCIMF/ICS STS Guide.
 - Cargo measurement and use of 3P surveyors requires enhancement
- **ICS Comments**
 - Seeking clarification on;
 - Line checks
 - closed cargo operations and cross reference with other sections, plus use of vapour locks
 - References to specific conductivity values not mentioned in MSDS

Chapter 12

Carriage & Storage of Hazardous Materials

- **Provides guidance on carriage and storage of hazardous materials either as cargo, samples or ships stores**
 - Complements information contained elsewhere; e.g. ICS Tanker Safety Guide (Chemicals) and MSDS
- **Content 7 pages – NIL pages drawings/tables.**
- **OCIMF Comments**
 - Covers topics lightly and references other guidance contained elsewhere; e.g. ICS and IMO (IMDG Code).
 - Touches upon issues such as garbage and samples which may require enhancement.
 - Review current status to ensure topics being appropriately handled if it could be moved to other sections.
- **ICS Comments**
 - Nil comments to date

Chapter 13

Human Element Considerations

- **Describes in general terms basic human element considerations for maintaining a safe working environment onboard ships**
 - Includes discussion on fatigue and control of drugs & alcohol
- **Content 3.5 pages – NIL pages drawings/tables.**
- **OCIMF Comments**
 - Is this still the place to have this discussion, or could it be situated elsewhere in ISGOTT if content here remains light?
 - Covers topics lightly and would benefit significantly from review against current expectations and trends, if to remain in ISGOTT
 - D&A requires verification/alignment to current best practices.
- **ICS Comments**
 - Seeking review of D&A guidance and also review against MLC

Chapter 14

Special Ship Types

- **Establishes safety measures to be taken by combination carriers additional to conventional tankers**
 - Includes discussion on LPG vessels that may be used in the petroleum trade.
- **Content 11.5 pages – NIL pages drawings/tables.**
- **OCIMF Comments**
 - While recognising the importance of this information, is this still the place to have this discussion? If so, needs review for current concerns and trends.
 - Is there more enhanced information on combination carriers held elsewhere e.g. IACS, INTERCARGO, BIMCO etc?
 - Should LPG carriers handling petroleum products be under SIGTTO remit?
- **ICS Comments**
 - Nil to date

Chapter 15

Terminal Management and Organisation

First Chapter in PART 3 – Terminal Information

- **Describes risk based systems, processes and procedures needed to ensure safe operations at the terminal.**
 - Includes discussion on terminal manning and effective supervision.
- **Content 5.5 pages – NIL pages drawings/tables.**
- **OCIMF Comments**
 - References to the now withdrawn MTBLC point to the major issue, namely this Chapter requires major revision to align to guidance established in the MTIS programme, especially MTMSA.
- **ICS Comments**
 - Nil to date

Chapter 16

Terminal Operations

- **Provides information on terminal operating procedures and activities covering safe custody transfer and handling ships.**
 - Includes discussion on mooring, ship/shore access, as well as pressure surges, and unusual operations such as ‘over the tide’ and double banking.
- **Content 10.5 pages – NIL pages drawings/tables.**
- **OCIMF Comments**
 - Majority of Chapter given to issues around pressure surges – but I wonder if this important topic could be handled elsewhere?
 - Chapter gives relatively light touch to a number of topics that in some cases either deserve more or, because they are covered elsewhere (e.g. MEG, STS guide), should be referenced differently.
- **ICS Comments**
 - Specifically they seek more emphasis on the mutual responsibility for provision of a safe landing area for the ships gangway.
 - Preamble notes seek a checklist for double-banking operations

Chapter 17

Terminal Systems and Equipment

- **Describes equipment provided by the terminal at ship/shore interface with particular emphasis on electrical isolation, fendering, lifting equipment, lighting.**
 - Title suggests more, but main focus is on bonding/earthing and electrical isolation of ship from shore
 - Includes light discussion on fendering, lighting and lifting equipment
- **Content 7.5 pages – 0.5 pages drawings/tables.**
- **OCIMF Comments**
 - Issues around electrical isolation often arise, in particular around the issue of bonding cables and mega testing for electrical conductivity
 - Chapter gives relatively light touch to a number of topics that maybe deserve more or, because they are covered elsewhere (e.g. fendering and lifting equipment inspection and maintenance), need clearer reference to further guidance.
- **ICS Comments**
 - Nil comments to date.

Chapter 18

Cargo Transfer Equipment

- **Describes use of cargo handling hoses and/or hard arms.**
 - Covers recommendations for operation, maintenance, inspection and testing to ensure a safe ship/shore connection
- **Content 15.5 pages – 3.5 pages drawings/tables.**
- **OCIMF Comments**
 - Requires review to ensure alignment across industry as issues around the connection of cargo handling hoses or hard arms feature in numerous OCIMF, SIGTTO (and others) publications
 - Key to this Chapter is to ensure alignment across industry.
 - Jetty Maintenance Guide overlap/alignment to be checked/validated
- **ICS Comments**
 - Nil comments to date.

Chapter 19

Safety & Fire Protection

- **Provides general guidance on safety management at marine terminals, with emphasis on fire detection and protection.**
 - Guidance included in ISGOTT 5 replaced existing OCIMF guide '*Guide on Marine Terminal Fire Protection and Emergency Evacuation*'
- **Content 20.5 pages – 0.5 pages drawings/tables.**
- **OCIMF Comments**
 - Important Chapter that requires close review to ensure current with existing Terminal design regulations, standards, recommendations and specifications; e.g. MOTEMS
 - Overlaps with other OCIMF publications
 - Key to this Chapter is to ensure alignment across industry.
 - MTBLC withdrawal may have created a gap in detailed coverage
 - Would benefit from enhanced guidance on expected actions by port/terminal/fire service in the event of fire at berth; e.g. fight or flight.
- **ICS Comments**
 - Nil comments to date.

Chapter 20

Emergency Preparedness

- **Provides guidance on the preparation of terminal emergency response plans, the resources and training to support them.**
 - Covers the broad spectrum of requirements for an effective plan including engagement with local authorities and emergency services.
- **Content 12.5 pages – Nil pages drawings/tables.**
- **OCIMF Comments**
 - This Chapter only briefly covers an area that deserves greater details to ensure it achieves the stated desire of ensuring a ‘comprehensive and well practised plan’ is available.
 - Requires closer review against current industry best practice expectations, standards and recommendations, including new phenomena such as terrorism.
 - Overlaps with other OCIMF publications, most notably MTMSA
 - Emergency Evacuation (Ch.21) arguably could be included here
- **ICS Comments**
 - Nil comments to date.

Chapter 21

Emergency Evacuation

- **Describes the basic elements to be included in a terminal evacuation plan and a effective means of emergency escape**
 - Covers means of escape, protection of personnel, use of survival craft, training as well as the interface with ship evacuation.
- **Content 3.5 pages – Nil pages drawings/tables.**
- **OCIMF Comments**
 - As with Ch.20, this Chapter only briefly covers an area that deserves greater details to ensure it meets current industry expectations.
 - Requires closer review against current industry best practice expectations, standards and recommendations, and considers new issues arising from enhanced port security requirements.
 - Overlaps with other OCIMF publications, most notably MTMSA
 - Consider inclusion in Emergency Preparedness (Ch.20).
- **ICS Comments**
 - Nil comments to date.

Chapter 22

Communications

First Chapter in PART 4

Management of the Tanker/Terminal Interface

- **Provides guidance on the communications between ship and terminal pre-arrival and during time alongside the berth.**
 - Includes guidance on the information exchanges at key stages of the tanker visit to terminal, including those to port authorities.
 - Covers communications for agreed cargo load or discharge plans.
 - As with all Chapters in this section, also covers details necessary to ensure an effective ship/shore interface and SSSCL implementation
- **Content 10 pages – Nil pages drawings/tables.**
- **OCIMF Comments**
 - Refresh necessary to ensure most up to date understanding but mainly common practice procedures
- **ICS Comments**
 - Nil comments to date.

Chapter 23

Mooring

- **Details the preparations and procedures necessary to provide for an efficient mooring arrangement at the berth.**
 - Refers to details contained elsewhere in MEG and Effective Mooring
 - Covers jetties, and buoy moorings; MBM and SPM berths.
- **Content 6 pages – Nil pages drawings/tables.**
- **OCIMF Comments**
 - Close review required to ensure no contradiction with other leading publications.
 - Question – could this be handled in a way that provides less here, and ensures reader goes to the necessary leading documents;
 - MEG, Effective Mooring, GOTO, SMOG, MBM etc.
 - Includes discussion on emergency use of tugs;
 - need to align to issues re towing off pennants, warping and tugs alongside hazardous cargo vessels and
 - escort towing v harbour towing capabilities
- **ICS Comments**
 - Nil comments to date.

Chapter 24

Precautions on Ship & Terminal During Cargo Handling

- **Provides guidance for ship and shore on precautions to be taken during various marine operations**
 - Covers basic details on cargo handling, ballasting, bunkering, tank cleaning, gas freeing, and purging operations
- **Content 9.5 pages – 0.5 page drawings/tables.**
- **OCIMF Comments**
 - A general catch all Chapter that covers issues not handled elsewhere in Parts 2 and 3.
 - Requires revision to recognise new publications (e.g. OCIMF Manifold recommendations)
 - Manning requirements touched upon briefly
 - would benefit from further details on training and competency in line with MTMSA/MTOCT
- **ICS Comments**
 - Nil comments to date.

Chapter 25

Bunkering Operations

- **Provides guidance on the planning and execution of bunkering operations including use of a pre-transfer checklist**
 - Focus upon the handling of bunkers during ‘traditional’ types of operation, with procedures under the ships SMS.
- **Content 7.5 pages – 3.5 pages drawings/tables.**
- **OCIMF Comments**
 - Suggest discussion with IBIA to ensure alignment with training being provided to bunkering companies
 - Requires updating with considerations for;
 - IMO regulations and guidance
 - LNG bunkering
 - Reconsider scope to include bunker related issues;
 - e.g. include sulphur issues such as fuel switching in port
- **ICS Comments**
 - Nil comments to date.

Chapter 26

Safety Management

- **Provides details required to effectively manage the safety of the primary ship/shore interface.**
 - Main focus of Chapter is the requirement for a Ship/Shore Safety Checklist (SSSCL) and guidance on the topical items to ensure an effective implementation, including cross checks.
 - Also covers weather conditions, personnel safety and emergency action including guidance on 'emergency towing off pennants'
- **Content 35.5 pages – 10.5 pages drawings/tables.**
- **OCIMF Comments**
 - Probably the definitive item ISGOTT is famed for
 - Review required to ensure it is current best practice, including current thinking on ETOPS
 - Need to ensure alignment with other publications including;
 - SIGTTO and ICS tanker safety guides, MTMSA and STS Guides
- **ICS Comments**
 - Suggest the SSSCL should have considerations for static accumulator cargoes