



# Technical Information

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To : Whom It May Concern

Subject : Summary Report on IMO Meeting of Maritime Safety Committee 101st Session (MSC 101)

## Summary

This Technical Information summarizes the result of 101st Session of the IMO Maritime Safety Committee (MSC 101) that was held from the 05 to 14 June 2019, at the IMO headquarters in London.

## Information

1. The information provided in this Technical Information are the ones which have high relevance with the work of BMS or considered as an essential information for interested parties.
2. The following agenda are among those discussed during the meeting :

Agenda Number	Topic
3	Consideration and adoption of amendments to mandatory instruments
5	Regulatory scoping exercise for the use of Maritime Autonomous Surface Ships (MASS)
6	Goal-based new ship construction standards
8	Development of further measures to enhance the safety of ships relating to the use of fuel oil

The Agenda above are several technical issues discussed during the meeting. A brief coverage among the issues is expressed in the attached document. The attachment also covers:

- A. List of MSC Resolutions adopted by MSC 101
- B. List of Circulars approved by MSC 101

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More info

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## **BRIEF INFORMATION ON IMO MEETING OF MARITIME SAFETY COMMITTEE 101ST SESSION (MSC 101)**

### **A. CONSIDERATION AND ADOPTION OF AMENDMENTS TO MANDATORY INSTRUMENTS (AGENDA ITEM 3)**

The following amendments to IMO mandatory instruments are adopted during this session:

#### **1. The appendix to the annex to the 1974 SOLAS Convention**

These amendments are to ensure the consistency in interpreting item 8.1 on "Rudder, propeller, thrust, pitch and operational mode indicator" in the Records of Equipment, Forms C, E and P contained in the appendix to SOLAS by adding footnote to Item 8.1.

The footnote clarifies how to record the equipment provided on ships. These amendments are adopted by resolution MSC.456(101) and will enter into force on 1 January 2024.

#### **2. The FSS Code**

The amendments to paragraph 2.2 of chapter 15 of the FSS Code are to provide a unified understanding of arrangements for inert gas lines and related indicators and alarms for monitoring the pressure of the inert gas mains.

These amendments are adopted by resolution MSC.457(101) and will enter into force on 1 January 2024.

#### **3. The IGF Code**

MSC 101 adopted resolution MSC.458 (101) on Amendments to the IGF Code to include:

- a. the definition of *Ship constructed on or after*
- b. the definition of *index fv*
- c. cases where fuel tank loading limits are allowed to be higher than calculated using reference temperature
- d. requirements of secondary enclosures for gas fuel pipes
- e. requirements of explosion relief systems
- f. requirements of fire protection for space containing the fuel containment system and for type C tanks

These amendments will enter into force on 1 January 2024.

#### **4. The LSA Code**

The amendments of LSA Code are aiming at exempting lifeboats with two independent propulsion systems from being equipped with sufficient buoyant cars and their related items (thole pins, crutches or equivalent arrangements) to make headway in calm seas.

Furthermore, these amendments are also required a launching appliance to not depend on any means other than gravity or stored mechanical power which is independent of the ship's power supplies to launch the survival craft or rescue boat it serves in the fully loaded and equipped condition and also in the light condition.

Amendments to LSA Code are adopted by resolution MSC.459(101) and will enter into force on 1 January 2024.

## **5. The IBC Code and BCH Code**

MSC 101 adopted resolution MSC. 460(101) on Amendments to the IBC Code and MSC.463(101) on Amendments to BCH Code, to include:

- a. Requirement of Hydrogen sulphide (H<sub>2</sub>S) detection equipment for ships carrying bulk liquids prone to H<sub>2</sub>S formation.
- b. new pre-wash requirements
- c. revision of chapter 17 (Summary of minimum requirements)
- d. revision of chapter 18 (List of products to which the Code does not apply)
- e. revision of chapter 19 (Index of Products Carried in Bulk)
- f. revision of chapter 21 (Criteria for assigning carriage requirements for products subject to the IBC Code).

These amendments will enter into force on 1 January 2021.

## **6. The 2011 ESP Code**

MSC 101 adopted resolution MSC.461(101) on Amendments to 2011 ESP Code to include:

- a. revision of text used in Code to ensure its mandatory nature
- b. revision of the figures used in Code
- c. additional definitions in Part A to provide consistency between different part of the Code
- d. new requirements of the rescue and emergency response equipment
- e. new requirements of the number and locations of thickness measurements
- f. new requirements of the acceptance criteria for corrosion.

These amendments will enter into force on 1 January 2021.

## **7. The IMSBC Code**

MSC 101 adopted resolution MSC.462(101) on Amendments to the IMSBC Code (amendment 05-19). The amendments contain new requirements for existing substances and new substances, including new schedules for solid bulk cargoes intended to be carried under the IMSBC Code.

These amendments will enter into force on 1 January 2021.

## 8. The SPS Code

Following the adoption of the Amendments to the Record of Equipment of SPS Code adopted by resolution MSC.453(100), MSC 101 adopted resolution MSC.464(101) on Amendments to SPS Code to amend the SPS Safety Certificate to accommodate additional mobile satellite systems.

These amendments will enter into force on 1 January 2020.

## B. MARITIME AUTONOMOUS SURFACES SHIPS (MASS) (Agenda item 5)

### Progress of the Regulatory Scoping Exercise (RSE)

The Committee noted a report on the progress of the regulatory scoping exercise for the use of MASS and the development of the new GISIS module to facilitate conducting of initial review of IMO instruments affected for the use of MASS. Further, the Committee also noted information provided by the Secretariat, in order to address gaps in rules or regulations to the initial review of instruments, a record for “General comments” had been created in the GISIS module for RSE on MASS under each instruments and for each degree of autonomy.

With regards the proposal for development of a draft glossary in the RSE, the Committee agreed that the matter of a glossary should be further considered after RSE had been completed; together with the submission from ISO concerning their aforementioned new standard expected for MSC 102.

### Establishment of a working group

Taking into account comments made in the plenary, the Committee agreed to re-establish the Working Group on MASS, with task to:

1. consider the progress made with the regulatory scoping exercise, and advise the Committee on any necessary actions;
2. finalize draft interim guidelines for MASS trials; and
3. prepare terms of reference for the intersessional Working Group on MASS.

In general, the results of discussion on the Working Group inter alia:

- Technical malfunctions of the module GISIS has been resolved when exporting consolidated data from the module, upon request from the Member States.
- Deadline reporting for review and comments of the result of the first step RSE should be sent to the intersessional Working Group by 2 August 2019.
- Instruments or parts of instruments yet to be reviewed i.e :
  1. Agreement concerning specific stability requirements for ro-ro passenger ships undertaking regular scheduled international voyages between or to or from designated ports in North West Europe and the Baltic Sea (SOLAS AGR 1996);
  2. Protocol of 1978 relating to SOLAS 1974 (SOLAS PROT 1978);
  3. Protocol of 1988 relating to SOLAS 1974 (SOLAS PROT 1988);
  4. Special Trade Passenger Ships Agreement, 1971 (STPS 1971); and
  5. Special Trade Passenger Ships, 1973 (SPACE STP 1973).

The group agreed to postpone reviewing these instrument at this stage.

- Establishment of the Intersessional Working Group on MASS would be held on 2 to 6 Sept 2019 with task to :
  - a. consider the results of the first step of the regulatory scoping exercise, as reported by relevant volunteering Member States in accordance with the template set out in annex 1 to document MSC 101/MP.8, and take necessary action with a view to commencing the second step;
  - b. consider how the outcome of the second step should be reported to MSC 102 and take action, as appropriate;
  - c. based on a high-level discussion on the gaps, themes and/or relevant findings identified during the first step, provide guidance to Member States for use in the second step; and
  - d. submit a written report to MSC 102.

#### **Interim guidelines for MASS trials**

The following matters has been agreed inter alia

1. That the inclusion of the authorities and stakeholders relevant to the guidelines would make the scope and application of the guidelines clearer; and
2. To highlight the role of, and allocation of responsibilities to, relevant authorities involved in MASS trials.
3. To include a “ Risk management” section in the guidelines as one of the principle and main objectives
4. To include parts of compliance with mandatory instrument in the guidelines
5. Manning and qualifications of personnel involved in MASS trial should be addressed.
6. Human element should be addressed in the guidelines as standalone subject.
7. Establishment of proper infrastructure for safe, secure and environmentally sound conduct of MASS trials.
8. To include a separate section stating that appropriate means of communication and data exchange, as well as redundancy, should be provided.
9. To include a section for reporting requirements and information sharing regarding details of trials to be reported to relevant authorities.

Based on the above report, the Committee

- Encouraged IMO Members to contribute to the first step of the RSE based on the framework approved by MSC 100;
- Requested volunteering Member States to submit the results of the first step to the intersessional Working Group on MASS;
- Approved terms of reference for the intersessional working group on MASS; and
- Approved the interim guidelines for MASS trials.

#### **C. GOAL-BASED NEW SHIP CONSTRUCTION STANDARDS (Agenda item 6)**

Working Group on GBS was established during this session, the Group was then instructed to do the following:

1. finalize amendments to the Generic guidelines for developing goal-based standards (MSC.1/Circ.1394/Rev.1) and
2. update the revised timetable and schedule of activities for the implementation of the GBS verification scheme.

## **Amendments to the Generic Guidelines for Developing IMO Goal-Based Standards**

A three-step development process is initiated in the following order, after the goal has been set, which includes:

1. identification, ranking and selection of relevant hazards;
2. developing risk mitigating functions and expected performance; and
3. formulation of functional requirements including description, rationale and expected performance.

The Committee agree to the draft amendments to paragraph 13.3 of the Generic Guidelines to permit the development of functional requirements based on qualitative expected performance in those cases where it would be impracticable otherwise, based on the previous decision of MSC 98.

The Committee then agree that the revised Generic Guideline to be circulated as MSC.1/Circ.1394/Rev.2

### **Revised Timetable and Schedule of Activities for the Implementation of GBS Verification Scheme**

The Committee agree to minor changes reflecting the actual application date of resolution MSC. 454(100) on Revised Guidelines for verification of conformity with goal-based ship construction standards for bulk carriers and oil tankers.

### **Update on the new functionality in the GISIS module "National Contacts" with regard to the pool of GBS auditors**

The Committee agreed that GBS auditor information to be accessible to all Member States and International Organizations, and urged Member States and international organizations to nominate suitable auditors directly in GISIS and to update the information when necessary.

## **D. DEVELOPMENT OF FURTHER MEASURES TO ENHANCE THE SAFETY OF SHIPS RELATING TO THE USE OF FUEL OIL (Agenda item 8)**

Following the discussion at MSC 99, it has been agreed that safety issues on fuel should be brought under the purview of MSC (instead of MEPC). A correspondence group is also established at this session with the aim of developing an action plan to enhance measures for the safety of ships relation to the use of oil to be finalized in 2021.

Among the terms of reference for the correspondence group are:

1. further consider the development of mandatory requirements regarding the reporting of confirmed cases where oil fuel suppliers have failed to meet the flashpoint requirements of the Organization, taking into account that feedback should also be provided to the supplier;
2. further consider the development of mandatory requirements to ensure parties take action as appropriate against oil fuel suppliers in confirmed cases of deliveries of oil fuel that does not comply with the requirements specified in SOLAS regulation II-2/4.2.1, taking into account regulation 18.9.4 of MARPOL Annex VI;

3. further consider the development of mandatory requirements regarding the documentation of the flashpoint of the actual fuel batch when bunkering providing a statement that the oil fuel delivered complies with regulation SOLAS II-2/4.2.1;
4. further consider the development of guidelines for ships to address situations where they have indicative test results suggesting that the oil fuel supplied may not comply with regulation SOLAS regulation II-2/4.2.1;
5. collect information on possible measures related to oil fuel parameters other than flashpoint;

The Committee also adopt the draft MSC resolution on Recommended interim measures to enhance the safety of ships relating to the use of oil fuel, which encourages Administrations to inform IMO cases where oil fuel supplier failed to meet requirements of SOLAS II-2/4.2.1, and invite MEPC 75 to consider in particular the additional item for reporting of the said confirmed cases in GISIS Module.

## E. Other Issues

### Traffic separation schemes (TSS) and routeing measures

The Committee adopted, in accordance with the Procedure for the adoption and amendment of traffic separation schemes, routeing measures other than traffic separation schemes, including designation and substitution of archipelagic sea lanes, and ship reporting systems (resolution A.858(20)) among others :

1. new traffic separation schemes and associated measures "In the Sunda Strait" and "In the Lombok Strait", to be implemented on 1 July 2020,
2. routeing measures other than traffic separation schemes as follows:
  - 1) new precautionary areas "In the Sunda Strait" and "In the Lombok Strait" with recommended directions of traffic flow, to be implemented on 1 July 2020; and
  - 2) amendments to the *Recommendations on navigation through the English Channel and the Dover Strait* (adopted by resolution A.475(XII), as amended, on *Ships' Routeing*), to be implemented on 1 January 2020.

### Domestic Ferry Safety

Due to the increased number of ferry incidents, the committee agreed to a proposed plan of work for next session of MSC to include :

- Collection of Data
- Analysis of Best Practices
- Development of Model Regulation for Domestic Law
- Development of online material on domestic ferry safety especially in training
- Incorporation of the model regulation in domestic law

## F. LIST OF MSC RESOLUTIONS ADOPTED BY MSC 101

1. Resolution MSC.456(101) – Amendments to The International Convention For The Safety Of Life At Sea (SOLAS), 1974, As Amended
2. Resolution MSC.457(101) – Amendments to The International Code For Fire Safety Systems (FSS Code)

3. Resolution MSC.458(101) – Amendments to The International Code Of Safety For Ships Using Gases or Other Low-Flashpoint Fuels (IGF Code)
4. Resolution MSC.459(101) – Amendments to The International Life-Saving Appliance Code (LSA Code)
5. Resolution MSC.460(101) – Amendments to The International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals In Bulk (IBC Code)
6. Resolution MSC.461(101) – Amendments to The International Code On The Enhanced Programme of Inspections During Surveys of Bulk Carriers And Oil Tankers, 2011 (2011 ESP Code)
7. Resolution MSC.462(101) – Amendments to The International Maritime Solid Bulk Cargoes Code (IMSBC Code)
8. Resolution MSC.463(101) – Amendments to The Code For The Construction And Equipment Of Ships Carrying Dangerous Chemicals In Bulk (BCH Code)
9. Resolution MSC.464(101) – Amendments to The Code Of Safety For Special Purpose Ships (SPS Code)
10. Resolution MSC.465(101) – Recommended Interim Measures To Enhance The Safety Of Ships Relating to The Use Of Oil Fuel
11. Resolution MSC.466(101) – Amendments to The Performance Standards For The Presentation of Navigation-Related Information On Shipborne Navigational Displays (Resolution MSC.191(79))
12. Resolution MSC.467(101) – Guidance On The Definition And Harmonization of The Format And Structure Of Maritime Services In The Context Of E-Navigation
13. Resolution MSC.468(101) – Amendments to Promulgation Of Maritime Safety Information (Resolution A.705(17), as Amended)
14. Resolution MSC.469(101) – Amendments to World-Wide Navigational Warning Service (Resolution A.706(17), as Amended)
15. Resolution MSC.470(101) – Amendments to Imo/Wmo Worldwide Met-Ocean Information And Warning Service – Guidance Document (Resolution A.1051(27))
16. Resolution MSC.471(101) – Performance Standards For Float-Free Emergency Position-Indicating Radio Beacons (EPIRB) Operating On 406 Mhz
17. Resolution MSC.472(101) – Amendments to The Revised Recommendation On Testing Of Life-Saving Appliances (Resolution MSC.81(70))

#### **G. LIST OF CIRCULAR APPROVED BY MSC 101**

1. MSC.1/Circ.1603 - Guidance for the electronic transfer of information into and from the maritime security module of GISIS
2. MSC.1/Circ.1604 - Interim guidelines for MASS trials
3. MSC.1/Circ.1605 - Unified interpretations of the IGF Code
4. MSC.1/Circ.1606 - Unified interpretations of the IGC Code
5. MSC.1/Circ.1607 - Carriage of chapter 19 products, amended IGC Code (Resolution MSC.370(93)), on ships built after 1 July 1986 and before 1 July 2016
6. MSC.1/Circ.1608 - Procedure for the submission of documents containing proposals for the establishment of, or amendments to, ships' routing systems or ship reporting systems
7. MSC.1/Circ.1609 - Guidelines for the standardization of user interface design for navigation equipment
8. MSC.1/Circ.1610 - Initial descriptions of Maritime Services in the context of E-navigation
9. MSC.1/Circ.1611 - Interim guidance on technical requirements for Fleet Safety

10. MSC.1/Circ.1612 - Guidance for navigation and communication equipment intended for use on ships operating in polar waters
11. MSC.1/Circ.1613 - Interim Iridium Safety Cast service manual
12. MSC.1/Circ.1614 - Interim guidelines on life-saving appliances and arrangements for ships operating in polar waters
13. MSC.1/Circ.1615 - Interim guidelines for minimizing the incidence and consequences of fires in ro-ro spaces and special category spaces of new and existing ro-ro passenger ships
14. MSC.1/Circ.1616 - Unified interpretations of SOLAS chapter II-2
15. MSC.1/Circ.1617 - Unified interpretations of the IGC Code
16. MSC.1/Circ.1618 - Unified interpretations of SOLAS chapter III
17. MSC.1/Circ.1205/Rev.1 - Revised guidelines for developing operation and maintenance manuals for lifeboat systems
18. MSC.1/Circ.1212/Rev.1 - Revised guidelines on alternative design and arrangements for SOLAS chapters II-1 and III
19. MSC.1/Circ.1222/Rev.1 - Guidelines on annual testing of voyage data recorders (VDR) and simplified voyage data recorders (S-VDR)
20. MSC.1/Circ.1259/Rev.8 - Long-range identification and tracking system Technical documentation (Part I)
21. MSC.1/Circ.1376/Rev.4 - Continuity of service plan for the LRIT system
22. MSC.1/Circ.1412/Rev.2 - Principles and guidelines relating to the review and audit of the performance of LRIT Data Centres and the International LRIT Data Exchange
23. MSC.1/Circ.1364/Rev.1/Corr.1 - Amendments to the Revised International SafetyNET Manual
24. MSC.1/Circ.1394/Rev.2 - Generic guidelines for developing IMO goal-based standards
25. MSC.1/Circ.1395/Rev.4 - Lists of solid bulk cargoes for which a fixed gas fire-extinguishing system may be exempted or for which a fixed gas fire-extinguishing system is ineffective
26. MSC.1/Circ.1535/Rev.1 - Unified interpretations relating to the Protocol of 1988 relating to the International Convention on Load Lines, 1966
27. MSC.1/Circ.1537/Rev.1 - Unified interpretations of the 2008 IS Code
28. MSC.1/Circ.1539/Rev.1 - Unified interpretations of SOLAS chapter II-1
29. MSC.1/Circ.1416/Rev.1 - Unified interpretations of SOLAS regulations II-1/28, II-1/29 and II-1/30
30. MSC.1/Circ.797/Rev.33 - List of competent persons maintained by the Secretary-General pursuant to section A-I/7 of the STCW Code
31. MSC.1/Circ.1163/Rev.12 - Parties to the International Convention on Standards of Training, Certification and Watchkeeping for Seafarers (STCW), 1978, as amended, confirmed by the Maritime Safety Committee to have communicated information which demonstrates that full and complete effect is given to the relevant provisions of the Convention
32. MSC.1/ Circ.1164/Rev.21 - Promulgation of information related to reports of independent evaluation submitted by Parties to the International Convention on Standards of Training, Certification and Watchkeeping for Seafarers (STCW), 1978, as amended, confirmed by the Maritime Safety Committee to have communicated information which demonstrates that Parties are giving full and complete effect to the relevant provisions of the Convention
33. MSC-MEPC.5/Circ.15 - Delivery of compliant fuel oil by suppliers