

International Maritime Organization (IMO)

80th Session of the Marine Environment Protection Committee (MEPC 80)

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Composition of the Portuguese Delegation at the event

José Carlos Simão, DGRM General-Director;

Paulo Pamplona, DGRM Head of Maritime Administration Services and Deputy Permanent Representative of Portugal at IMO;

Alexandra Dias, staff member of the Maritime Administration Services at DGRM; Ana Cardoso, staff member of the Environment and Sustainability Services at DGRM; João Esteves, President of the Technical Commission of Madeira International Shipping Register;

Carlos Sequeira, representative from the Portuguese Embassy in London.

The 80th Session of the Marine Environment Protection Committee (MEPC 80) took place in Plenary with the presence of IMO Member States (MS) representatives. Simultaneously, discussions between MS representatives took place in the following working groups which were established previously:

- a) Working Group on Air Pollution and Energy Efficiency;
- b) Working Group on GHG Ships Emissions Reduction;
- c) Drafting Group for Amendments to Mandatory Instruments;
- d) Technical Group for the Designation of PSSA and Special Areas; and
- e) Ballast Water Review Group.

The conclusions and outcomes from MEPC 80th Session are next presented.

MAIN ISSUES DISCUSSED AND OUTCOMES

IMO STRATEGY ON GHG EMISSIONS

1. 2023 IMO STRATEGY ON REDUCTION OF GHG EMISSIONS FROM SHIPS

Levels of Ambition

The Committee, on the basis of the progress made in the Intersessional Working Group on Reduction of GHG Emissions from Ships 15 (ISWG-GHG 15) and after extensive discussions in which all delegations demonstrated their willingness to reach consensus on the revision of Initial IMO Strategy on Reduction of GHG Emissions from Ships, approved the 2023 IMO Strategy on Reduction of GHG Emissions from Ships (Resolution MEPC.377(80)).

The objectives of 2023 IMO GHG Reduction Strategy are:

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• Enhancing IMO's contribution to global efforts (Paris Agreement and United Nations 2030 Agenda for Sustainable Development) to reduce GHG emissions in international shipping;

• To identify actions the international shipping sector should implement, while addressing impacts on States and supporting the consistent development of global trade and maritime transport services;

• To specify actions and measures that will contribute to achieving those objectives along with incentives for research and development and monitoring of GHG emissions from international shipping.

The 2023 IMO GHG Strategy increases the levels of ambition compared to the Initial IMO Strategy on Reduction of GHG Emissions from Ships. The levels of ambition and indicative checkpoints shall consider the Well-to-Wake (WtW) GHG emissions of marine fuels, as addressed in the Guidelines on lifecycle GHG intensity of marine fuels (LCA Guidelines) with the overall objective of reducing GHG emissions of international shipping without a shift to other sectors.

Levels of ambition directing the 2023 IMO GHG Strategy are as follows:

1. carbon intensity of the ship to decline through further improvement of the energy efficiency for new ships

To review with the aim of strengthening the energy efficiency design requirements for ships;

2. carbon intensity of international shipping to decline

To reduce CO2 emissions per transport work, as an average across international shipping, by at least 40% by 2030, compared to 2008;

<u>3. uptake of zero or near-zero GHG emission technologies, fuels and/or energy</u> sources to increase

uptake of zero or near-zero GHG emission technologies, fuels and/or energy sources to represent at least 5%, striving for 10%, of the energy used by international shipping by 2030; and

4. GHG emissions from international shipping to reach net zero

to peak GHG emissions from international shipping as soon as possible and to reach net-zero GHG emissions by or around, i.e., close to, 2050, considering different national circumstances whilst pursuing efforts towards phasing them out as called for in the Vision consistent with the long-term temperature goal set out in Article 2 of the Paris Agreement.

In addition, the Committee established two indicative checkpoints to reach netzero GHG emissions from international shipping:

.1 to reduce the total annual GHG emissions from international shipping by at least 20%, striving for 30% in 2030, compared to 2008; and

.2 to reduce the total annual GHG emissions from international shipping by at least 70%, striving for 80% by 2040, compared to 2008.

The Committee agreed on the following timelines for the candidate measures set out in the 2023 IMO GHG Strategy:

• The review of the short-term mandatory goal-based technical and operational measures shall be completed by 1 January 2026.

• The basket of mid-term GHG reduction measures shall be finalized and agreed by the Committee by 2025.

Other candidate mid-term GHG reduction measures could be finalized and agreed between 2023 and 2030.

• Long-term measures could be finalized and agreed by the Committee beyond 2030, to be developed as part of the 2028 review of the IMO GHG Strategy.

The IMO GHG Strategy is subject to a five-yearly review, with the next review to happen in 2028.

2. <u>REVIEW OF THE SHORT-TERM GHG REDUCTION MEASURES</u>

Regulations 25.3 and 28.11 of MARPOL Annex VI state that a review of the shortterm GHG reduction measures (EEXI, SEEMP and CII) shall be conducted by 1 January 2026. In that order, the Committee endorsed the Draft Review Plan of the Short-term GHG reduction measure. The review plan is focused on three main sections: scope, timeline and data sources.

<u>Scope</u>: The short term measures shall be evaluated on:

- Their effectiveness in reducing the carbon intensity of international shipping;
- Experiences with enforcement of the short-term measure by flag and port States;
- Need for enhancement of the ship fuel oil consumption data (IMO DCS);
- Impacts on States;
- Revision of the Z factor and CIIR values as set out in CII Guidelines G2 and G3;
- Further amendment to the CII metrics,
- Further amendments to the correction factors and voyage adjustments (CII Guidelines G5);
- Application of the LCA Guidelines, and;
- Any amendments to existing instruments.
- <u>Timeline</u>: The above review shall be carried out:
- From MEPC 80 to MEPC 82 (Autumn 2024), data gathering;

• At MEPC 82, a Working Group will analyse the data continued by a Correspondence Group, and;

• An Intersessional Working Group between MEPC 82 and MEPC 83 along with a Working Group at MEPC 83 will review the Convention and Guidelines.

<u>Data</u>: The effectiveness of the short-term measures must be justified by relevant IMO DCS data.

Beginning from the second half of 2023, the Secretariat is assigned to monitor the improvement of carbon intensity based on both demand-based and supplybased measurements. In addition, member States and international organizations, are invited to collect data and submit proposals to relevant MEPC meetings along with other stakeholders such as shipowners, charterers, and port authorities.

3. CANDIDATE MID-TERM GHG REDUCTION MEASURES

The basket of candidate mid-term GHG reduction measures shall be developed and finalized of both:

• A technical measure, a goal-based marine fuel standard regulating the reduction of the marine fuel's GHG intensity. There is broad support for the Greenhouse Gas Fuel Standard (GFS) as proposed initially by Austria et al.

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• An economic measure, on the basis of a maritime GHG emissions pricing mechanism. On the contrary to universal support of GFS, there are divergent views on the economic elements, where the following seem to stand out:

1. IMO Maritime Sustainability Fund and Reward (F&R) by International Chamber of Shipping (ICS);

2. Zero-Emission Shipping Incentive Scheme (ZESIS) by Japan;

3. International Maritime Sustainability Funding and Reward (IMSF&R) by Argentina et al;

4. International Maritime Sustainable Fuels and Fund (IMSF&F) by China;

5. GHG Levy (GHGL) by Marshall and Solomon Islands.

Both technical and economic measures should consider the WtW GHG emissions of marine fuels as addressed in the Guidelines on lifecycle GHG intensity of marine fuels (LCA Guidelines).Furthermore, the Committee will consider any possible synergies of mid-term measures with existing measures such as the Carbon Intensity Indicator (CII), regarding incentives for energy efficiency. Impact on States

The Committee prior to the adoption of any measure or combination of measures shall assess their impact on States and especially in Small Island Developing States (SIDS) and Least Developed Countries (LDCs). Any impact assessment shall at least consider the following:

- Geographic remoteness of and connectivity to main markets;
- Cargo value and type;
- Transport dependency and costs;
- Food security;
- Disaster response;
- Cost-effectiveness and socio-economic progress and development.
- 4. <u>PROPOSED TIMELINE FOR THE DEVELOPMENT OF CANDIDATE MID-TERM MEASURES AND</u> <u>ASSOCIATED COMPREHENSIVE IMPACT ASSESSMENT</u>

The Committee agreed on the following timeline for the conduct of CIA and development of mid-term measures, which is also incorporated in the 2023 IMO GHG Strategy:

	Milestones			
	Comprehensive	Development of	Other milestones	
	impact	candidate mid-		
Target dates	assessment of the	term measures		
	basket of			
	candidate mid-			
	term measures			
MEPC 80	Initiation of CIA	Initiate Phase III		
(Summer 2023)		of the Work Plan		
		on the		
		development of		
		mid-term		
		measures		



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MEPC 81 (Spring 2024)	Interim report	Finalisation basket	of of	
		measures		
MEPC 82	Finalised report			
(Autumn 2024)				
MEPC 83 (Spring 2025)		Approval measures	of	Review of the short- term measure to be completed by 1 January 2026
Extraordinary 1		Adoption	of	
or 2-day MEPC		measures		
(six months after				
MEPC 83 in				
Autumn 2025)				
MEPC 84 (Spring				
2026)				
MEPC 85				
(Autumn 2026)				
16 months after		Entry into force		
adoption (2027)		of measures		
MEPC 86 (Summer 2027)				Initiate the review of the 2023 IMO GHG Strategy
MEPC 87 (Spring 2028)				
MEPC 88 (Autumn 2028)				Finalisation of the review of the 2023 IMO GHG Strategy with a view to adoption of the 2028 IMO GHG Strategy

5. CONSIDERATIONS ON HOW TO PROGRESS WORK ON THE REDUCTION OF GHG EMISSIONS FROM SHIPS INTERSESSIONALLY BEFORE MEPC 81

Comprehensive Impact Assessment of the basket of mid-term measures The Committee agreed on the establishment of the Steering Committee that will carry out the Comprehensive Impact Assessment (CIA) of the basket of candidate mid-term measures in accordance with the provisions of MEPC.1/Circ.885/Rev.1.

In addition, the Committee invited the member States and international organizations to financially support the CIA of the basket of candidate mid-term measures by means of a donation to the GHG TC Trust-Fund.



Terms of Reference (ToR) for ISWG-GHG 16

The Committee instructed the ISWG-GHG 16, considering documents submitted to:

• Further consider the development of candidate mid-term measure(s) in the context of Phase III.

- Further develop the Life Cycle GHG Analysis (LCA) framework.
- If time permits, consider proposals related to onboard CO2 capture.
- Submit a written report to MEPC 81.

6. DEVELOPMENT OF MARINE FUEL LIFE CYCLE GUIDELINES

The Committee adopted Resolution MEPC.376(80) containing the Marine Fuel life Cycle GHG Guidelines (LCA Guidelines) and agreed on a work program for further enhancement of the guidelines on specific areas. The scope of these guidelines is to address Well-to-Tank (WtT), Tank-to Wake (TtW), and Well-to-Wake (WtW) GHG intensity and sustainability themes/aspects related to marine fuels/energy carriers (e.g., electricity for shore power) used for ship propulsion and power generation onboard. The relevant Greenhouse Gases (GHG) included are:

- carbon dioxide (CO2),
- methane (CH4) and
- nitrous oxide (N2O).

The guidelines aim at covering the whole fuel life cycle (with specific boundaries), from feedstock, extraction/cultivation/ recovery, feedstock conversion to a fuel product, transportation as well as distribution/bunkering, and fuel utilisation on board a ship.

In addition, the guidelines will also specify sustainability themes/aspects for marine fuels and define a Fuel Lifecycle Label (FLL), which carries information about fuel type, feedstock (feedstock type and feedstock nature/carbon source), conversion/production process (process type and energy used in the process), GHG emission factors, information on fuel blends and sustainability themes/aspects. The guidelines will specify the elements of FLL subject to verification/certification and include a general procedure on how the certification scheme/standards could be identified.

7. DISCUSSION ON CARBON CAPTURE TECHNOLOGIES

<u>Terms of Reference (ToR) for Correspondence Group on the further</u> <u>development of the LCA framework</u>

The Committee instructed the Correspondence Group on the further development of the LCA framework to:

• Review the template to the Well-to-Tank data collection;

• Develop a template for Tank-to-Wake default emission factors for the fuel pathways;

• Collect and compile the default emission factor data received;

• Advance the consideration of the methodological elements listed below and advise the Committee accordingly:



- annualized emissions (over 20 years) from carbon stock changes caused by direct land-use change;
- annualized emission savings (over 20 years) from soil carbon accumulation via improved agricultural management;
- factor accounting for the fuel which escapes between the tanks up to the energy converter which is leaked, vented or otherwise lost in the system;
- emission credits from the used captured CO2 as carbon stock to produce synthetic fuels in the fuel production process);
- emission credit from carbon capture and storage, where capture of CO2 occurs onboard;
- CO2 emission factor for fuels other than those contained in resolution MEPC.364(79);
- CH4 and N2O emission factors, for fuels other than those contained in resolution MEPC.364(79)

• Advance the consideration of the methodological elements on evaluating carbon GHG intensity of the electricity (including Onshore Power Supply - OPS) and the Tank-to-Wake methodologies for actual/onboard emission factors;

• Submit a written report to MEPC 81.

AIR POLLUTION AND ENERGY EFFICIENCY

8. INTERIM GUIDANCE ON THE USE OF BIOFUELS UNDER REGULATIONS 26, 27 AND 28 OF MARPOL ANNEX VI (DCS AND CII)

Resolution MEPC.352(78) CII Guidelines, G1) provide the possibility for the CO2 emission conversion factor (CF) to be provided from the fuel oil supplier, supported by documentary evidence.

MEPC 80 approved circular MEPC.1/Circ.905 suggesting that in the interim, pending development of policy instruments for the use of the Marine Fuel Life Cycle Assessment (LCA) guidelines, biofuels that have been certified by international certification scheme, meeting its sustainability criteria, and that provide a well-to-wake GHG emissions reduction of at least 65% compared to the well-to-wake emissions of fossil MGO of 94 gCO2eq/MJ (i.e., achieving an emissions intensity **not exceeding 33 gCO2eq/MJ**) according to that certification, may be assigned a CF equal to the value of the well-to-wake GHG emissions of the fuel according to the certificate (expressed in gCO2eq/MJ) multiplied by its Lower Calorific Value (LCV, expressed in MJ/g) for the purpose of regulations 26, 27, and 28 of MARPOL Annex VI for the corresponding amount of fuels consumed by the ship. In any case, the CF value of a biofuel cannot be less than 0.

For fuel blends, the CF shall be calculated as the weighted average of the CF for the respective amount of fuels by energy. In addition, the verification of the reported biofuel consumption shall be bucked up with a Proof of Sustainability or similar documentation from a recognized scheme along with the Bunker Delivery Note (BDN).

Biofuels not certified as "sustainable" or not providing at least 65% WtW GHG emissions reduction with respect to fossil MGO, shall be assigned a CF equal to the CF of the equivalent fossil fuel.

Member Governments shall bring the Interim Guidance to the attention of all relevant stakeholders concerned for application **as of 1 October 2023**.

9. ENGINE EMISSION TESTING AND CERTIFICATION FOR NOX TIER III

The Committee took into consideration a study indicating that in order to better reflect real world ship operations within ECAs, especially for ships sailing at low speeds near coastal regions and ports, potential additional test cycle for NOx Tier III might be necessary. In addition, recent observations in the North Sea NOx emission control area showed high NOx emissions from Tier II and Tier III compliant ships, sailing at low speeds. In that order, several delegations expressed the intention to investigate possible establishment of new test cycles, for instance at 10 percent engine load, whereas several other delegations expressed concerns evaluating the NOx emissions in terms of g/kWh for low engine loads, as the denominator might take very low value in operation at low loads. Noting the above, the Committee decided to invite interested Member States and International Organizations to provide additional information on engine emission testing and certification for NOx Tier III, to future sessions.

10. DRAFT AMENDMENTS TO MARPOL ANNEX VI RELATED TO LOW-FLASHPOINT FUELS AND OTHER FUEL OIL RELATED ISSUES

The Committee approved amendments to Regulations 2, 14, 18, 27 and Appendix I of MARPOL Annex VI.

• In Regulation 2, the definition of fuel oil is revised as "any fuel delivered to and intended for use on board a ship", whereas an additional paragraph is added, paragraph 1.33, for the definition of gas fuel, aligned with the definition of 'gas' in IGF Code.

• Revision of Paragraph 12 in Regulation 14, states that the in-use/onboard sampling points requirements in Paragraphs 10 and 11 shall not apply to gas/low-flashpoint fuels.

• Furthermore, Regulation 18 is amended, and a new paragraph 5.2 is added, to apply BDN requirements with minimum content to gas/low-flashpoint fuels. The BDN shall at least contain the information specified in items 1 to 6 of Appendix V of Annex VI, the density determined by a test method appropriate to the fuel type along with the associated temperature along with a signed and certified declaration that the fuel oil conforms with the fuel oil quality requirements of Paragraph 3, Regulation 18. Low-flashpoint/gas fuels in principle have very low sulphur content, however the Committee agreed that this information shall still be documented in the BDN by the supplier either in terms of actual value determined by a suitable test method or with the agreement of the appropriate authority at the port of supply that the sulphur content is less than 0.001 percent m/m.

• In Regulation 27, Collection and Reporting of ship fuel oil consumption data, two new paragraphs are being added. These state that the Secretary-General of the Organization, under strict confidentiality, may share data with analytical consultancies and research entities and, on the request of a company, shall



grant access to the fuel oil consumption reports of the company's owned ship(s) in a non-anonymized from to the public.

• In addition, Paragraph 2.3.5, in Appendix I, Form of International Air Pollution Prevention (IAPP) Certificate (Regulation 8) is also modified to refer to both low-flashpoint and gas fuels.

11. AMENDMENTS TO THE 2021 GUIDELINES FOR EXHAUST GAS CLEANING SYSTEMS

2021 Guidelines for Exhaust Gas Cleaning Systems, MEPC.340(77) were amended to include also a footnote referring to Guidelines for the use of electronic record books under MARPOL (MEPC.312(74)). In that order, Paragraphs 4.4.9 and 5.7.1 were revised and a footnote was added to the Electronic Record Book that refers to resolution MEPC.312(74).

12. AMENDMENTS TO THE 2022 GUIDELINES ON THE SURVEY AND CERTIFICATION OF THE ENERGY EFFICIENCY DESIGN INDEX (EEDI)

The Committee approved Resolution MEPC.374(80) with amendments to the 2022 Guidelines on the survey and certification of the Energy Efficiency Design Index (EEDI) (MEPC.365(79)). Table in paragraph 4.2.3.2 is modified, and the footnote referring to the verification of Liquefied Natural Gas (LNG) tanks filling rate is replaced by the verification of tank loading limit in the IGF and/or IGC Codes, corresponding to the normal density used in the calculation of f_{DFgas}.

13. AMENDMENTS TO THE 2021 GUIDELINES ON THE SHAFT/ENGINE POWER LIMITATION SYSTEM TO COMPLY WITH THE EEXI REQUIREMENTS AND USE OF A POWER RESERVE

The Committee approved MEPC.375(80), amendments to the 2021 *Guidelines* on the shaft/engine power limitation system to comply with the EEXI requirements and use of power reserve (MEPC.337(76)). Paragraph 3.2 is modified to clarify that evidence and records that justify the use of power reserve shall be submitted to the Administration or RO for verification and do not need to be submitted to the Organization as part of annual submission of use of a power reserve. In addition, Paragraph 3.4 was amended, stating that the Administration shall report to the IMO Secretariat by 30 June every year, uses of a power reserve over a 12-month period, from 1 January to 31 December of the preceding year, using a standardized template, while the IMO Secretariat shall provide an annual anonymized summary report of data received to the Committee. Disclosure of non-anonymized data may be considered at a future session, pursuant to proposals by interested parties.

The Committee at MEPC 79 agreed in general to insert the ShaPoLi/EPL concept in the EEDI framework and had noted several points that needed further consideration such as the definition of PME2F 3, implications on NOx Technical Code and referred MCR in NOx certification. Several delegations supported using 83 percent of the MCRlim3F 4 or 75 percent of MCR whichever is lower for determining PME for use of ShaPoLi/EPL in the EEDI framework, whereas others preferred using 75 percent of the MCRlim, in consistency with the EEDI calculation guidelines stating that using 83% of the MCRlim could penalise ship types such as tankers and bulk carriers. For the case of the NOx certification framework, several views supported using MCRlim values, whilst some others using the original unlimited MCR. In addition, the use of MCRlim in the NOx certification would require amendments to the NOx Technical Code. Due to the varying views, the Committee noted the thorough discussion and invited delegations to work intersessionally on matters such assigning the appropriate MCR value along with potential draft amendments to the NOx Technical Code.

14. AMENDMENTS TO MARPOL ANNEX VI TO INCLUDE DATA ON TRANSPORT WORK AND ON ENHANCED LEVEL OF GRANULARITY IN THE IMO SHIP FUEL OIL CONSUMPTION DATA COLLECTION SYSTEM (DCS)

The Committee approved draft amendments to Appendix IX of MARPOL Annex VI, Information to be submitted to the IMO Ship Fuel Oil Consumption Database (Regulation 27). These amendments make mandatory the reporting of the:

- fuel oil consumption when the ship is not under way,
- total amount of onshore power supplied expressed in kWh
- the fuel oil consumption per combustion system (Main engine(s), Auxiliary engine(s), Oil-fired boilers, and Others).

In addition, there is a new entry to report the laden distance travelled - on a voluntary basis - and the installation of any innovative technology according to the 2021 Guidance on treatment of innovative energy efficiency technologies for calculation and verification of the attained EEDI and EEXI (MEPC.1/Circ.896).

Ships to which Regulation 28 of MARPOL Annex VI applies to, shall also report the transport work using tonne-mile, TEU-Mile and/or passenger-mile data, whereas containerships especially must report both tonne-mile and TEU-mile data.

It shall be also noted that, the effective and consistent implementation of the agreed amendments to Appendix IX of MARPOL Annex VI, require the update of the SEEMP Guidelines, the DCS administration verification guidelines and the DCS database guidelines and in that order the Committee invited member States and international organizations to submit concrete proposals to MEPC 81.

15. ACCESSIBILITY OF IMO DCS DATA

The Committee considered a proposal to widen the accessibility of the IMO DCS data on the advantage that it would benefit future decision-making, better targeting of policies in the field of GHG emission reduction supported by the increased data granularity, and increased credibility of the shipping industry in achieving its ambitions to reduce GHG emissions. Several delegations expressed concerns for the additional administrative burden, and the ability of Member States to preserve confidentiality of commercially sensitive data. The Committee decided to invite Member States and International Organizations to work together intersessionally and submit to a future session a proposal on how to preserve data confidentiality.



16. STANDARDS FOR SHIPBOARD GASIFICATION OF WASTE SYSTEMS AND ASSOCIATED AMENDMENTS TO REGULATION 16 OF MARPOL ANNEX VI

The Committee adopted Resolution MEPC.373(80) containing the 2023 Guidelines for Thermal Waste Treatment Devices (TWTD), which are developed based on a technology-neutral, goal-based approach that can be applied to any TWTD, such as gasification, hydrothermal carbonization, pyrolysis, or other thermal means for the disposal of permitted garbage during a ship's normal service. These guidelines follow a goal-based approach that requires the inservice monitoring and record keeping of specified emissions, the identification of Functional Objectives for such devices and development of a TWTD Technical Report that demonstrates resolution of each Functional Objective.

The guidelines also set maximum emission limits, with respect to air discharges - Performance Level 1 and tighter Performance Level 2, water discharge to sea and treatment of TWTD residues. The TWTD Technical Report shall cover at least the specified Functional Objectives in order to achieve the in-service Performance Level 1 emission limit requirements and, if applicable, those of Performance Level 2. Certification of TWTD is divided into two parts, approval of the proposed TWTD under Regulation 4 of MARPOL Annex VI and secondly approval of individual units of TWTD.

17. <u>REVISION OF REGULATION 13.2.2 OF MARPOL ANNEX VI TO CLARIFY THAT A MARINE</u> DIESEL ENGINE REPLACING A BOILER SHALL BE CONSIDERED A REPLACEMENT ENGINE

Under Regulation 13.2.2 of MARPOL Annex VI, the replacement of a marine diesel engine by a non-identical marine diesel engine or the installation of an additional marine diesel engine is considered a major conversion, and the NOx Technical Standards at the time of the replacement or addition of the engine shall apply. Furthermore, Regulation 13.2.2 contains an exemption clause for the replacement of a marine diesel engine with a non-identical one which states that when it is not possible for such replacement engine to meet the Tier III standard, it shall meet the Tier II standard.

The Committee approved an amendment to Regulation 13.2.2 to clarify that that the replacement of "steam system" by a marine diesel engine shall be considered a "replacement engine" (relying on the fact that a marine diesel engine is more efficient compared to old auxiliary boilers) and the Party shall notify the Organization accordingly when clause 13.2.2 is applied to a replacement of a "steam system" with a marine diesel engine. This amendment is scheduled to be adopted at MEPC 81 (April 2024).

The Committee also approved in principle the draft 2023 Guidelines as Required by Regulation 13.2.2 in Respect of Non-Identical Replacement Engines Not Required to Meet the Tier III Limit, to include the case where a marine diesel engine is to be installed to replace a steam system that engine to be considered a replacement engine. This is expected to be adopted at MEPC 81 along with the previously mentioned MARPOL Annex VI amendment.

18. UNIFIED INTERPRETATIONS OF MARPOL ANNEX VI



The Committee approved several new or revised Unified Interpretations related to the MARPOL Annex VI:

1) Regulation 13 of MARPOL Annex VI - Nitrogen Oxides (NOx)

The approval of revision of Regulation 13.2.2 which recognizes that the installation of a marine diesel engine in place of a "steam system" is considered as a replacement engine allowing also for the applicability of clause 13.2.2, requires the consequential amendments of sections 6 and 7 of circular MEPC.1/Circ.795/Rev.7 accordingly. This interpretation will be added to MEPC.1/Circ.795 at a future date once the related MARPOL amendments has been adopted.

2) Regulation 18 of MARPOL Annex VI - Fuel oil availability and quality

A proposal was made for a Unified Interpretation to clarify that bunker delivery notes are acceptable in either hard copy or digital form providing they meet the relevant requirements of MARPOL Annex VI. The interpretation makes acceptable the use of e-BDNs provided they contain at least the required information specified in MARPOL Annex VI. Furthermore, they shall be protected from edits and authentication shall be possible by a verification method such as date and time stamp, tracking number, QR code, GPS coordinates, watermark, or other verification methods. This interpretation will be included in MEPC.1/Circ.795/Rev.8.

19. DISCUSSION ON RISKS OF EGCS DISCHARGE WATER

The Committee noted recent developments from the PPR 10 sub-committee meeting (April 2023) regarding potential environmental risks associated with discharges from exhaust gas cleaning systems and received several submissions proposing regulatory measures to limit such discharges. In discussion, some member States expressed views for limiting such discharges by means of amendments to MARPOL Annex VI, while others suggested that MARPOL Annex VI amendments would be premature at this stage and providing guidance on controls for these discharges would be sufficient. Related submissions to MEPC 80 will be sent to the PPR 11 sub-committee meeting (Feb. 2024) for further assessment and advice.

20. DISCUSSION ON IMPACT OF BLACK CARBON EMISSIONS ON THE ARCTIC

The Committee noted recent developments from the PPR 10 sub-committee meeting (April 2023) inviting member States and international organizations to submit proposals on potential Black Carbon control measures. The Committee noted that that whilst voluntary measures may be developed for ships sailing in or near the Arctic, in line with the language used in resolution MEPC.342(77) on Protecting the Arctic from shipping Black Carbon emissions, consideration by the Committee of any potential mandatory measures to expand the geographical scope of application or the definition of the Arctic should only be given when such a proposal is co-sponsored by a Party to MARPOL Annex VI. Interested parties were urged to submit concrete proposals to PPR 11 (Feb. 2024) for mandating reductions in Black Carbon emissions from international shipping in the Arctic.



BALLAST WATER MANAGEMENT AND MARINE BIOSAFETY

21. <u>CONVENTION REVIEW PLAN UNDER THE EXPERIENCE-BUILDING PHASE ASSOCIATED WITH</u> THE BWM CONVENTION

The Committee approved circular BWM.2/Circ.79 containing the Convention Review Plan under the experiencebuilding phase associated with the BWM Convention, which will guide member States and international organizations on the holistic review of the BWM Convention as part of the Experience Building Phase (EBP).

In addition, the Committee decided to re-establish the Correspondence Group on Review of the BWM Convention which is instructed to define objectives for changes to specific Convention provisions and/or instruments, to address the issues in the annex of the Convention Review Plan. The Correspondence Group is also instructed to use a specific table format in which the identified issue will be reported along with suggested actions focused on possible equipment control points, survey control points, operation control points and Port State control points. The Correspondence Group shall submit a relevant report to MEPC 81.

22. TEMPORARY STORAGE OF GREY WATER OR TREATED SEWAGE IN BALLAST TANKS

The Committee continued the development of the *Guidance on the temporary storage of treated sewage and grey water in ballast tanks* with a view to finalization at the current session. However, due to the complexities of the discussion and the time constraints, the Committee agreed that further intersessional work would be needed. In that order, the Committee invited member States and international organizations to submit further proposals to MEPC 81.

23. <u>APPLICATION OF THE BWM CONVENTION TO SHIPS OPERATING AT PORTS WITH</u> CHALLENGING WATER QUALITY

Continuing the development of the Guidance on the application of BWM Convention to ships operating in challenging water quality from MEPC 79, the Committee decided to prioritize discussions focusing on the possible temporary nature of the guidance, pre-emptive bypassing of Ballast Water Management System (BWMS), crew familiarization with equipment and operations, roles of stakeholders and return to D-2 compliance following BWMS bypass. Due to the lack of consensus and time constraints, the Committee was not able to finalize the Guidance whereas there were several concerns on whether it will be possible in the end for the organization to agree on a relevant Guidance. The delegations expressed their consent to work further with a view to finalizing the Guidance at MEPC 81, stating that any further delay might force them to take relevant action at the national level.

24. BALLAST WATER RECORD-KEEPING AND REPORTING

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<u>Guidance on matters relating to ballast water record-keeping and reporting</u> The Committee approved circular BWM.2/Circ.80 containing the *Guidance On Matters Relating to Ballast Water Record-Keeping and Reporting*, to offer clarity to the record keeping and reporting progress under the BWM Convention, including guidance on completing the Ballast Water Record Book, an updated example ballast water reporting form and an example form for voluntary tankby-tank logging of ballast water operations.

Amendments to the guidelines for ballast water management and development of ballast water management plans (G4) and to the guidelines for ballast water exchange (G6)

In addition, the Committee adopted MEPC.370(80), Amendments to the *Guidelines for ballast water management and development of Ballast Water Management Plans (G4)* and MEPC.370(81), Amendments to the *Guidelines for ballast water exchange (G6)*. The G4 and G6 amendments refer to the Ballast Water Reporting Form (BWRF) as set out in Guidance on ballast water record-keeping and reporting (BWM.2/Circ.80) that can be submitted to a port State that requires specific information regarding the management of ballast water. <u>Guidance for the use of electronic record books under the BWM Convention</u>

The Committee adopted Resolution MEPC.372(80) containing the *Guidance for the use of electronic record books under the BWM Convention*, aiming to provide standardized information on approving an electronic book to ensure the obligations of the BWM Convention are met while ensuring a consistent approach to approving electronic record systems and assisting in reducing the administrative burden. Furthermore, the Committee finalized the necessary amendments to Regulations A-1 and B-2 of the BWM Convention concerning the use of electronic record books under the Convention, with a view to adoption by MEPC 81.

25. MODIFICATIONS TO BALLAST WATER MANAGEMENT SYSTEMS WITH EXISTING TYPE APPROVAL

The Committee had to consider how approvals of modifications to an already type-approved Ballast Water Management System (BWMS) will be treated. Several delegations supported that this was already covered by the BWMS Code, whereas others expressed that this shall be dealt by the Administrations and suggested, in anticipation of any outcome of the convention review, to develop a Guidance or a Unified Interpretation. The Committee invited member States and international organizations to submit concrete proposals to the next session on Guidance or Unified Interpretation to address this matter.

26. PORT STATE CONTROL INSPECTIONS DURING THE EXPERIENCE-BUILDING PHASE (EBP)

The Committee encouraged member States to conduct more sampling and analysis as part of the Port State Control inspections, while maintaining the non-penalization elements of the Experience-Building Phase of the BWM Convention.

27. RE-ESTABLISHMENT OF THE BALLAST WATER REVIEW GROUP



The Committee decided to re-establish the Ballast Water Review Group at MEPC 81, in accordance with the provisions of Regulation D-5 of the BWM Convention, to continue the new topics and existing ones that require further consideration, while also expecting the report of the Correspondence Group on Review of the BWM Convention.

28. 2023 GUIDELINES FOR THE CONTROL AND MANAGEMENT OF SHIP'S BIOFOULING

The Committee adopted Resolution MEPC.378(80) containing the 2023 Guidelines for the Control and Management of Ships' Biofouling to Minimize the Transfer of Invasive Aquatic Species, which will revoke the former 2011 Biofouling Guidelines in Resolution MEPC.207(62). The updated guidelines provide revisions to the 2011 edition, removing Chapter 7 (Biofouling Risk Profile and Monitoring of Risk Parameters) and including a new chapter of Contingency-Action Plans (Chapter 7) that will be followed if the monitoring of biofouling risk parameters during ship operation identify an increased risk of biofouling accumulation. Such plans can include proactive actions to lower the risk of biofouling accumulation, corrective actions to operating profile and maintenance, or inspection to determine biofouling accumulation by the ship's crew (provided it is qualified to use relevant inspection equipment) or an independent inspection organization. Additionally, the updated guidelines include example forms for the Biofouling Management Plan (BFMP) and Biofouling Record Book (BRFB). For Chapter 9 (Cleaning and Maintenance), guidance on in-water cleaning is to be addressed separately at a future session, with a target year of completion in 2025, and member States and international organizations have been invited to provide concrete proposals.

29. 2023 GUIDELINES FOR THE DEVELOPMENT OF THE INVENTORY HAZARDOUS MATERIALS

The Committee adopted Resolution MEPC.379(80) containing the 2023 Guidelines for the Development of the Inventory of Hazardous Materials to cover the controls on cybutryne governed by the AFS Convention. In Table A of Appendix I (Items to be listed in the Inventory of Hazardous Materials) and Table A of Appendix 6 (Form of Material Declaration), an additional row was included for anti-fouling systems containing cybutryne as a biocide, Appendix 5 was amended accordingly to account also for cybutryne as a material that shall be listed under Table A and in Appendix 8, Section 4 was modified to include specific test methods for determining the concentration of cybutryne.

30. AMENDMENTS TO THE BWM CONVENTION - FORM OF THE BALLAST WATER RECORD BOOK

The Committee adopted Resolution MEPC.369(80) containing amendments to Appendix II of the Annex to the BWM Convention which introduce changes to the form of the Ballast Water Record Book (BWRB). These changes are intended to make the form of this record book comparable to that of the Oil Record Book discussed in MARPOL Annex I and require a more detailed and standardized reporting of ballast water operations. The reformatted BWRB provides a more detailed list of codes (by letter) and items (by number) which should be used DIGRM DIREÇÃO-GERAL DE RECURSOS NATURAIS, SEGURANÇA E SERVIÇOS MARÍTIMOS

to codify entries made in the BWRB. The codes by which ballast activities are categorized are:

(A) When ballast water is taken on board from the aquatic environment (ballasting operation)

(B) When ballast water is discharged into the aquatic environment (deballasting operation)

(C) Whenever ballast water is exchanged, circulated or treated for ballast water management purposes

(D) Uptake or discharge of ballast water from/to a port-based or reception facility

(E) Accidental discharge/ingress or other exceptional uptake or discharge of ballast water

(F) Failures and inoperability of the ballast water management system

(G) Ballast tank cleaning/flushing, removal and disposal of sediments

(H) Additional operational procedures and general remarks

These amendments will enter into force on 1 February 2025.

31. PROTOCOL FOR VERIFICATION OF BALLAST WATER COMPLIANCE MONITORING DEVICES

The Committee approved circular BWM.2/Circ.78 containing a finalized *Protocol for Verification of Ballast Water Compliance Monitoring Devices*. In particular, the goal of the protocol is to provide a framework under which it is possible to verify the ability of a Compliance Monitoring Device (CMD) to assess non-compliance with the D-2 standard, supporting the effective implementation of the BWM Convention. Section 8.4 of the Protocol defines a list of verification success criteria that the CMD shall be able at minimum to meet:

• Precision (Repeatability): A coefficient of variance (CV) less than 25% is considered as acceptable, whereas less than 10% demonstrates excellent repeatability;

• Reliability: Expressed as the percentage of the data recovered versus the data that the CDM was intended to collect over a certain period. Acceptable values are more than 90%;

Agreement between CDM and detailed analysis results: At minimum, 80 percent of the CDM results shall agree with the relevant detailed analysis results.

32. UNIFIED INTERPRETATIONS OF THE BWM CONVENTION

The Committee approved three new Unified Interpretations related to the BWM Convention:

1) BWM Convention, Regulation E-1.1.5 and Appendix I - Date to be used for determining implementation of mandatory commissioning testing of individual BWMS in accordance with Resolution MEPC.325(75)

The Committee approved interpretations related to commissioning tests of BWMS undergoing a major modification or an upgrade on board an existing ship. The interpretation clarifies that if a BWMS on board a ship undergoes an upgrade or change to a major component as defined under paragraph 3.9 of the BWMS



Code, the BWMS should be regarded as a newly installed BWMS. A commissioning test should be conducted in accordance with regulation E-1.1.5 of the BWM Convention and an International Ballast Water Management Certificate (IBWMC) for that ship should be re-issued accordingly.

2) BWMS Code, Paragraph 4.10 - Requirements for calibration of BWMS components that take measurements

The Committee approved an interpretation to clarify that for BWMS components that take measurements, the interval for accuracy checks for calibration or replacement of sensors should not be mandatorily linked to the survey scheme for the BWMS. The accuracy check of BWMS components that take measurements should be performed in accordance with the calibration procedure at intervals specified in the manufacturer's instructions. A validity check of calibration certificates should be conducted at BWM annual, intermediate and renewal surveys.

3) Form of the IBWM Certificate - "Date of construction" on the IBWMC and application of D-2 standard after a ship has undergone a major conversion The Committee approved a unified interpretation to the Form of the International Ballast Water Management Certificate (IBWMC), regarding the "Date of construction" for a ship that has undergone a major conversion, and the date until which a ship that has undergone a major conversion on or after 8 September 2017 shall comply with D-2 Standard as per Regulation B-3.5.

• For the former, the Sub-Committee agreed on an interpretation stating that for a ship which has undergone a major conversion, the date of the commencement of the major conversion should be filled in the "Date of construction" in the Form of the IBWMC.

• For the latter, it was agreed that for a ship constructed before 8 September 2017, which has undergone a major conversion on or after that date, it shall be considered as constructed on or after 8 September 2017 and comply with Regulation B-3.5 Furthermore, if the major conversion has happened before the IOPP renewal survey, the ship shall meet the D-2 standard from the date of major conversion completion and if that major conversion occurred after the IOPP renewal survey, ship shall meet the D-2 standard from the date of completion of the renewal survey.

These interpretations will be included in BWM.2/Circ.66/Rev.5.

33. BWM SYSTEM APPROVALS

Final Approval was extended by the Committee for ERMA FIRST BWTS model FIT 75-3000, submitted by Greece, for freshwater applications. This system treats ballast water by filtration and full flow electrolysis.

Final Approval was granted by the Committee for BalClor® Smart BWMS, submitted by Denmark. This system treats ballast water by electro-chlorination during ballasting, followed by neutralization during de-ballasting using sodium thiosulfate prior to discharge.

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Final Approval was granted by the Committee for EcoGuardian NFTM Ballast Water Management System, submitted by the Republic of Liberia. This system treats ballast water by electro-chlorination during ballasting, followed by neutralization during de-ballasting using sodium thiosulfate prior to discharge. *Basic Approval* was granted by the Committee for HiBallast 2.0TM BWMS, submitted by the Republic of Korea. This system treats ballast water with sodium hypochlorite solution, followed by neutralization during de-ballasting using sodium thiosulfate prior to discharge.

DESIGNATION OF SPECIAL AREAS, EMISSIONS CONTROL AREAS (ECA) AND PARTICULARLY SENSITIVE SEA AREAS (PSSA)

34. DESIGNATION OF THE NORTH-WESTERN MEDITERRANEAN SEA AS A PARTICULARLY SENSITIVE SEA AREA

The Committee adopted Resolution MEPC.380(80) establishing the North-West Mediterranean Sea as a Particularly Sensitive Sea Area (PSSA). This area is proposed to be established to protect cetaceans from the risk of ship collisions, ship-generated pollution and to increase awareness of a critically important area for the fin whale and the sperm whale. The proposed PSSA is limited by the coastline of France, Italy, Monaco and Spain and includes areas under the jurisdiction of coastal States.

The large size and high shipping traffic of this PSSA was acknowledged, but it was also noted that due to the significance of the ecological, socio-economic and scientific values of the area, several existing national and international protective measures are already implemented in this area. The designation of a PSSA and the additional associated measures will contribute to protecting cetaceans, minimizing the risk of ship strikes and support scientific research on the matter.

The Committee approved the following recommendatory associated protective measures (APMs) for the NW Mediterranean PSSA, to be applied to any commercial ships and pleasure yachts from 300 gross tonnage and upwards:

1) Mariners should navigate with caution within the NW Med PSSA, in areas where large and medium cetaceans are detected or reported and reduce their speed to between 10 and 13 knots as voluntary speed reduction (VSR). However, a safe speed should be kept, so that proper and effective action could be taken to avoid collision and any possible negative impacts on ship's maneuverability.

2) Mariners should keep an appropriate safety distance or speed reduction measure from any large and medium cetaceans observed or detected in close quarter situation. The safety distance or speed reduction measure should be adapted to the actual navigation circumstances and conditions of the ship.

3) Mariners should broadcast on VHF or other available means on scene, the position of medium and large cetaceans observed or detected within the designated PSSA and transmit the information and the position to designated coastal Authorities; and

4) Mariners should report any collision with cetaceans to designated coastal Authorities, which should forward this information to the International Whaling



Commission (IWC) global cetacean ship strikes database.

35. DESIGNATION OF SPECIAL AREAS IN THE RED SEA AND GULF OF AIDEN - DISCHARGE REQUIREMENTS

The Committee adopted Resolution MEPC.381(80) establishing that the discharge controls related to oil or oily mixtures (MARPOL Annex I, regulations 15.3, 15.5 and 34.3 to 34.5) will take effect on 1 January 2025 for the Red Sea and Gulf of Aiden special areas. This is due to the confirmation that adequate port reception facilities for such wastes have been provided in this area in accordance with the requirements set out in regulation 38.8.1 of MARPOL Annex I.

Similarly, the Committee adopted Resolution MEPC.382(80) establishing that the discharge controls related to garbage (MARPOL Annex V, regulation 6) will take effect on 1 January 2025 for the Red Sea and Gulf of Aiden special areas. This is due to the confirmation that adequate port reception facilities for such wastes have been provided in this area in accordance with the requirements set out in regulation 8.2 of MARPOL Annex V.

36. PROPOSAL FOR THE CANADIAN ARCTIC ECA

Canada has proposed to the IMO to establish a Canadian Arctic Emission Control Area (ECA) in accordance with MARPOL Annex VI regulations. The ECA would require ships operating in Canadian Arctic waters to comply with stricter emission standards for nitrogen oxides (NOX), sulfur oxides (SOX), and particulate matter (PM). The designation of the ECA is deemed necessary to protect public health and ecologically sensitive Arctic ecosystems by reducing harmful air pollution and emissions. This new ECA is being proposed in part to also address longstanding concerns of Black Carbon emissions in the arctic region.

The full proposal for designation of a Canadian Arctic ECA is under development and aiming for potential submission to MEPC 81 (April 2024). If approved, adoption of the Canadian Arctic ECA under MARPOL Annex VI could take place as soon as Spring of 2025, with entry into force as soon as Winter of 2027. As with other ECA's, this would impose a fuel oil sulphur content limit of 0.10 percent by mass and would also impose a requirement for ships constructed after the adoption of the ECA to comply with NOx Tier III limits.

37. PROPOSAL FOR NORTH-EAST ATLANTIC OCEAN ECA

The Committee received an update from the maritime Administrations from North-East Atlantic Ocean littoral States regarding their discussions on designating an ECA in their waters. This possible future ECA in the North-East Atlantic Ocean for SOX and PM emissions (under regulation 14 of MARPOL Annex VI) and NOX emissions (under regulation 13) would potentially link the existing ECAs in the Baltic Sea, North Sea and English Channel with the recently adopted Mediterranean Sea SOX ECA. This would also align with the designation of additional ECAs in the area by Norway, bringing consistent and uniform regulation across these sea areas of high traffic density. Under the coordination



of Portugal, a technical and feasibility study is underway to address requirements and criteria set out in Appendix III of MARPOL Annex VI. Depending on the outcome of this process, a joint proposal for the designation of an ECA in the North-East Atlantic Ocean could be submitted next year to MEPC 81 or 82.

38. PROPOSAL FOR MAURITIUS PSSA

Citing recent vessel groundings and other maritime incidents, the Government of Mauritius is preparing a proposal for the establishment of a PSSA and areas to be avoided (ATBA) for transiting ships, around the coasts of Mauritius and Rodrigues Islands as a measure to reduce the risk of further marine casualties, improve the safety of navigation and protect the marine environment. The proposed PSSAs/ATBAs would apply to ships of 150 gross tonnage and above solely in transit. Although the precise boundaries have yet to be defined, the proposed PSSA and ATBA for Mauritius and Rodrigues are to reduce the risks of incidents by increasing the safety of navigation and additionally to protect the vulnerable marine ecosystems (coral reefs, mangroves, seagrasses, estuaries) around the Islands of Mauritius and Rodrigues. The Government of Mauritius is currently in the process of finalizing the full PSSA proposal, including Appropriate Protective Measures, for submission to MEPC in 2024.

OTHER DEVELOPMENTS

39. ENTRY-INTO-FORCE CONDITIONS OF THE HONG KONG CONVENTION

The Committee noted that the entry-into-force conditions of the Hong Kong International Convention for the Safe and Environmentally Sound Recycling of Ships (Hong Kong Convention) had been met on 26 June 2023 with the accession of Bangladesh and Liberia, and that the Convention would therefore **enter into force on 26 June 2025**.

40. REVISED GUIDELINES FOR THE REDUCTION OF UNDERWATER NOISE

Underwater noise pollution from ships is a growing environmental concern. At its sixty-sixth session, the Marine Environment Protection Committee (MEPC) acknowledged the concerns that a significant portion of the underwater noise generated may be related to commercial shipping and approved the *Guidelines* for Reducing Underwater Noise from Commercial Shipping to Address Adverse Impacts on Marine Life (MEPC.1/Circ.833). In June 2021, MEPC 76 decided to review the Guidelines and identify next steps to further prevent and reduce underwater radiated noise (URN) and to encourage action.

At this session, the Committee approved circular MEPC.1/Circ.906 containing the *Revised Guidelines for the Reduction of Underwater Radiated Noise from Shipping to Address Adverse Impacts on Marine Life*. The revised guidelines have been further developed to improve their structure, effectiveness and clarity. The Revised Guidelines will take effect on 1 August 2023, revoking the previous circular MEPC.1/Circ.833, and may be applied to any ship, considering their design, construction and modifications, as well as their operation.



Highlights of the Revised Guidelines include the following:

1) A new Section added to the guidelines, addressing Underwater Radiated Noise Management Planning

2) A dedicated section about the relationship between the Energy Efficiency Compliance Measures and Underwater Radiated Noise. Many of the energy efficiency improvement options to meet energy efficiency regulations (EEDI, EEXI and CII) may result in an improvement in URN performance and could provide positive synergies with climate policies. 3) A section for the maritime authorities, financial and insurance institutions and others to promote establishing incentive schemes to support the implementation of underwater radiated noise monitoring programs and noise reduction efforts by suppliers, designers, builders, shipowners and operators, where considered appropriate.

4) Information on noise reduction approaches based on design, technical, operational and maintenance aspects.

The initial ship design and build stages are critical for reducing underwater noise by considering the hull and propeller design, wake flow improvement, propulsion system and onboard machinery, etc. It is unlikely to be practical for existing ships to match the underwater noise performance achievable by new designs, except for retrofitting propellers. For all vessels, the operational and maintenance approaches like optimizing voyage planning, especially in sensitive areas, reducing ship speed, reducing hull roughness by utilizing proper coatings, maintaining the hull and propeller clean, proper maintenance of the moving parts and machinery, help to keep the noise levels low.

41. DRAFT ASSEMBLY RESOLUTION PROMOTING ACTIONS TO PREVENT ILLICIT OPERATIONS OF "DARK SHIPPING"

The Committee considered a new draft Assembly urging member states and all relevant stakeholders to promote actions to prevent illicit operations of "dark shipping" in the maritime sector. According to the draft Resolution:

• Flag States should consider requiring that vessels update their ship-toship operations manuals required under MARPOL Annex I regulation 41, and to include notifying their flag State when they are engaged in a midocean transfer operations.

• Port States should ensure enforcement of the safety and compensation and liability convention requirements on these vessels, including by subjecting such vessels to enhanced inspections as authorized through relevant port State control mechanisms and notifying the respective vessel's flag administration as appropriate.

• Coastal States should monitor ship-to-ship operations in their territorial sea or EEZ, as notified in accordance with regulation 42 of MARPOL Annex I and take appropriate action in cases identified as not complying with the maritime safety and the prevention of marine pollution regulations. Furthermore, coastal States are encouraged to collaborate to improve monitoring of these practices and operations.



42. OPERATIONAL GUIDE ON THE RESPONSE TO SPILLS OF HAZARDOUS AND NOXIOUS SUBSTANCES (HNS)

The Committee approved a revised edition of the Operational Guide on the Response to Spills of Hazardous and Noxious Substances (HNS), after several modifications that ensure international applicability and scope. The guide was divided into two volumes - Volume 1 (Preparedness) and Volume 2 (Response).

43. AMENDMENTS TO PPR. 1/CIRC.7 - DECISIONS WITH REGARD TO THE CATEGORIZATION AND CLASSIFICATION OF PRODUCTS

The Committee approved updates to the PPR.1 circular which describes all relevant decisions in relation to the assignment of carriage requirements under the IBC Code. Among several changes was added guidance on categorization of mixtures containing MARPOL Annex I components, as well as a cross-reference to the recently approved PPR.1/Circ.9, *Revised Carriage Requirements for Methyl Acrylate and Methyl Methacrylate*. This will be released as circular PPR.1/Circ.7/Rev.1.