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Subject: News Flash of PPR 4 (Pollution Prevention and Response)

The Sub-Committee on Pollution Prevention and Response (PPR) held its fourth session at IMO HQ in London from 16th to 20th Jan. 2017. In this regard, please be informed of the main issues and summary of PPR 4 as below. In reviewing this briefing, readers should be assured that the output written herein are not legally effective until they are adopted as mandatory instruments by MEPC.

1. Evaluation of Safety and Pollution Hazardous of Chemical and Preparation of Consequential Amendments to the IBC Code (Agenda 3)

(1) The Sub-committee reviewed the outcomes of 22nd (10~14th, Oct. 2016) Working Group of ESPH(Evaluation of Safety and Pollution Hazards of Chemicals) which contains the requirements for new chemical products, new cleaning additives and the relevant amendment to the IBC Code and etc. and discussed the following issues;

- MEPC.2/Circular

- The sub-committee reviewed and approved the evaluation on the Provisional classification of liquid substances transported in bulk and the relevant materials. (MEPC.2/Circular 22)

- New Cleaning additives

- The sub-committee concurred with evaluation of 14 cleaning additives and 12 of those products meeting the criteria, including the Korean Products made by g&e Bridge (TC-BC, TC-WRC, TC-ACID, TC-ENVIRO). This will be prepared for inclusion in MEPC.2/Circ.23 at an upcoming meeting of ESPH.

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- Amendments to IBC Code and Annex II of MARPOL
 - The sub-committee discussed on the development of guidance for assessment and classification of products under the Annex I and II of MARPOL. The Sub-committee agreed to forward draft criteria for assessing petroleum-like mixtures “energy rich fuel” for the development of above guidance to the ESPH 23 for further consideration
 - The Sub-Committee concurred with the draft amendments to chapter 21 of the IBC Code (Criteria for assessing carriage requirements for products subject to the IBC Code.). Once the entry into force of the above amendments to Chapter 21, ESPH will go forward with amendment to chapter 17 and 18 for reflecting above amendments.
 - The Sub-Committee also reviewed the outcomes of ESPH 22 regarding the revision of the toxicity categorization considering the concerns on undue administrative burdens on industries and Administrations which are caused by exemptions applicable to toxic vapor detection equipment which is not available for some product and invited to discuss this issue and submit the relevant revision at ESPH 23.

- MEPC.1/Circ.512
 - Guidelines for the provisional assessments of liquid substances transported in Bulk have not yet concluded. The related works will be carried out intersessionally with a view to the approval of MEPC meeting in 2018.

2. Review of MARPOL Annex II requirements that have an impact on cargo residues and tank washing of high-viscosity and persistent floating products (Agenda 4)

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- The Sub-Committee reviewed the draft amendments to MARPOL Annex II to amending the discharge requirements for persistent floating high-viscosity and solidifying substances, and discussed the following issues;
 - The lack of reception facilities for the discharge of tank washing water for the group of products for which pre-washing is required.
 - The effects of vegetable oils in the marine environment and the request to consider the possibility of exempting vegetable oils from the new requirements

- The Sub-Committee, in principle, supported the draft amendments. However, some delegations raised the concerns regarding the availability of port reception facility and the possibility of exemption of prewash requirements for vegetable oil.

- Having noted above comments expressed by delegations, the Sub-committee agreed to refer the draft amendments to the Working Group of ESPH for further consideration.

3. Development of OSV chemical Code (Offshore Support Unit) (Agenda 5)

- (1) The Sub Committee reviewed the report of the correspondence group on the development of the OSV Chemical Code re-established at PPR 3.

- (2) The Working Group(WG) established at this session reviewed the comments on the amendments to draft OSV Chemical Code with a view to finalization of this Code for subsequent adoption at Assembly which will be held in 2017.

- (3) Discussion and outcomes at WG

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- The Group agreed that the Code should apply to OSVs engaged in the carriage of the products subject to the Code, regardless of size or voyage, and agreed to delete "while not constructed or adopted primarily to carry in bulk cargoes subject to the Code" in paragraph 1.1.1 of the draft text.
- The Group considered the scope of products subject to the OSV Chemical Code, and agreed to the text as follows:
 - only those offshore related products which are listed in chapter 17 or 18 of the IBC Code and the latest edition of the MEPC.2/Circular and their related references to chapter 15 and 19 of the IBC Code;
 - oil-based/water-based mud containing mixtures of products listed in chapter 17 and 18 of the IBC Code and the MEPC.2/Circular;
 - liquid carbon dioxide (high purity and reclaimed quality) and liquid nitrogen; or
 - contaminated backloads
- The group agreed that existing OSVs may be permitted to carry products identified as requiring Ship Type 2 carriage requirements in IBC Code and subject to the Administration's acceptance.
- The Group agreed that the life-saving requirements for chemical tankers of SOLAS chapter III should apply to vessels carrying more than 1,200 m³ of cargoes with a flashpoint not exceeding 60°C or carrying cargoes emitting toxic vapours or gasses.
- The Group reviewed the generic carriage requirements for contaminated backloads carried on OSVs and agreed that its requirements should apply to the carriage of contaminated backloads.

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4. Ballast Water Management (Agenda 6, 7, 8, 15)

(1) The Sub Committee noted the date of entry into force of BWM Convention (8th Sep. 2017). The Sub-Committee considered and reviewed the following items.

- Sampling port and analysis
 - The Sub-Committee considered a proposal on the amendment to G-2, *Guidelines for ballast water sampling* for the use of a standardized sampling port and consistent sampling port connection.
 - However, some delegations concerned about the effects on the existing vessels and the contradiction of the work for its ISO standard on sampling port connection.
 - The Sub-Committee informed that the work on draft amendments shall be approved by the Committee and requested interested parties to re-submit a new proposal to PPR 5.

- Standardization of BWMS Operation logging
 - The Sub-Committee considered a proposal on a standardized format for operation logging data of BWMS to ensure the proper monitoring and implementation, and invited to submitted additional documents, having regard to some delegations' comment that the format should be subject to manufacturers' instruction since each system has different operational characteristics.

- Guidance on Methodologies that may be used for enumerating viable organisms for type approval of BWMS.

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- The Sub-Committee instructed the Drafting Group at this session to prepare a draft circular with information on methods that may be used for determining viability of organisms.
- The Sub-Committee approved the draft Guidance on methodologies that may be used for enumerating viable organisms as below.

| Methodologies for enumerating viable organisms | Organism size class or indicator | Assessed criteria of viability | Applicability to ballast water treatment technologies |
|--|---|---|--|
| FDA/CMFDA + Motility | Viable organisms ≥ 10 µm to < 50 µm | Membrane integrity, enzyme activity, motility | Suitable for assessing treatment technologies intended to kill or remove organisms |
| MPN Dilution Culture + Motility | Viable organisms ≥ 10 µm to < 50 µm | Reproduction capacity, motility | Suitable for assessing all treatment technologies |

○ Unified Interpretation(UI) to regulation B-4 of the BWM Convention for implementing regulation D-1.

- A proposed UI submitted by the Republic of Korea for implementing regulation D-1 in case where in case where a ship is not able to conduct the exchange of ballast water due to the lack of conditions for this operation in accordance with Reg. B-4 of the Convention.
- The Sub-Committee noted that unified interpretations to the BWM Convention can only be approved by Parties to the Convention once it has entered into force and agree to invite interested delegations to submit further proposals to PPR 5.
- Nevertheless, considering the urgency of this matter, the Republic of

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Korea proposed to participate and cooperate in development of a BWM Circular instead of UI for subsequent approval at MEPC 71 prior to entry into force of the Convention.

- Ballast Water Management - "How to do it" Manual
 - The Sub-Committee established a Drafting Group to review the 9 items in the manual that the Drafting Group of PPR 3 could not finalize.
 - The Drafting Group(DG) completed text editing work, except some items for which review of the Secretary of MEPC is required.
 - The development of the manual which provides the advice on the process of ratification, implementation and enforcement of BWM Convention will be reviewed and finalized at MEPC 71.

5. Consideration of the impact on the arctic of Emissions of Black Carbon from international shipping (Agenda 9)

(1) Background

- MEPC 62 agreed with a work plan to consider the impact on the Arctic of Black Carbon (BC) emissions from international shipping.
- MEPC 68 agreed that Bond et al. definition is the most appropriate for the definition of BC international shipping.
- PPR 3 agreed to request the interested members and organizations to conduct the voluntary measurement studies to collect data with application of the definition of BC and related methods(*LII, FSN, PAS, MAAP).

* *Laser Induced Incandescence (LII), Filter Smoke Meter (FSN), Photo-Acoustic Spectrometry (PAS), Multi Angle Absorption Photometry (MAAP)*

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(2) Discussion and outcomes

- The Sub-committee reviewed the information on measurement studies and discussed the work plan for consideration of BC, the definition of BC and etc.

- Definition of BC
 - The Sub-committee agreed that it is not necessary to reconsider the definition of BC.

- Timeline for finalization
 - Finalization of the reporting protocol which will be developed by Correspondence Group intersessionally for voluntary measurement studies to collect data and identification of the most appropriate measurement methods at PPR 5.(2018)
 - Consideration of proposals and finalization of the appropriate control measures at PPR 6 (2019) for consideration by the Committee.

6. Standards for shipboard gasification of waste system and associated amendments to MARPOL (Agenda 10)

- PPR 3 agreed to establish the correspondence group for development of standard for shipboard gasification of waste system which is an alternative system of shipboard incinerator for treatment of garbage generated on a ship and associated amendment to regulation 16 of MARPOL Annex VI.

- The sub-committee agreed that a set of draft standard and amendments to regulation 16 would be needed but such amendment should not obstruct the new technology as an alternative system.

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- Owing to lack of time to discuss above issues at this session, the Sub-committee agreed to establish the correspondence group for further development of generic draft standard and associated amendments to regulation 16 of MARPOL Annex VI.

7. Guideline for the discharge of exhaust gas recirculation bleed-off water (Agenda 11)

- The Sub-Committee reviewed the report of correspondence group and completed the development of Guidelines for the discharge of exhaust gas recirculation bleed-off water with a view to the approval at MEPC 71.
- The key decisions for the development of this guideline are as follows;
 - Definition of Bleed off water
 - Discharge of the bleed-off water : It should not be discharged into the Polar water when using the compliant fuel or non-compliant fuel oil under the regulation 14 of MARPOL Annex VI.
 - Disposal from EGR water treatment system : It should be delivered to adequate port reception facilities.

8. Unified Interpretation(UI) (Agenda 15)

- The Sub-Committee agreed with the proposed UI for Clarification on regulation 36 of MARPOL Annex I for categorizing offshore terminal (Single Point Moorings (SPMs) or Conventional Buoy Moorings (CBMs)) line flush with seawater as part of tanker cargo/ballast operations in the Oil Record Book. This interpretation describes as below.
 - (UI) "When the master of an oil tanker agrees to accept terminal hose flush water from a Single Point Mooring (SPM) or a Conventional Buoy

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Mooring (CBM), that flush water should be categorized as the disposal of residues under regulation 36.2.10 of MARPOL Annex I. Appropriate entries should be made under Item J of Part II of the Oil Record Book."

- Example for recording Oil Record book (Part II)

1 At the load port where the flush water is received by the tanker, use the suggested wording for remarks:

(J) 55 At the request of (terminal xxxx), terminal line flush water (sea water) has been loaded into the ship's xxx tank

56 xxx m³ flush water

57.4 Transferred from terminal xxxx line/hoses. Total quantity in xxx tank m³;

And

2 At the discharge port where the flush water is disposed of by the tanker:

(J) 55 xxx tank

56 xxx m³, quantity retained in tank: xxx m³

57.1 a quantity of xxx m³ terminal line flush water received at the loading port terminal (xxx) was disposed/transferred to terminal xxx facility

9. Use of electronic record Books (Agenda 16)

- MECP 69 considered the draft Guidance for the use of electronic record books under MARPOL, the relevant unified interpretation to MARPOL and amendment to Resolution A.1052(27), the Procedures for Port State Control, 2011, and instructed Sub-committee to consider whether or not the forms of record books in MARPOL can be accommodated in electronic formats
- The Sub-committee agreed that the form of record books in MARPOL should be should be maintained for electronic record books.

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- With a view to progressing use of electronic record books without undue delays, the Sub-Committee requested the Secretary to prepare the following documents for consideration at PPR 5
 - Draft amendments to MARPOL
 - An updated version of the draft guidance for the use of electronic record books under MARPOL
 - Associated draft unified interpretations of MARPOL
 - Draft amendments to the Procedures for Port State Control, 2011 (resolution A.1052(27))

10. Amendments to SCR Guidelines (Agenda 17)

(1) Background

- At PPR 3, the Sub-Committee considered a number of issues associated with the SCR certification and testing requirements in accordance with SCR Guidelines (resolution MEPC.198(62), as amended by resolution MEPC.260(68)).
- MEPC 70 agreed that the amendments to SCR guideline would be better than the unified interpretations.

(2) Discussion and outcomes

- The Sub-Committee agreed that Scheme B should be regarded as an equal alternative to Scheme A, and to work the related amendments to the NOx Technical code 2008(NTC) prior to amendments SCR guideline reflecting equal application of Scheme A and B.

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- The Sub-Committee agreed to retain current concept of single applicant with sole responsibility for Engine and SCR.
- Furthermore, a proposal on the need for onboard confirmation testing under Scheme A was also not supported by a number of delegations.
- The working group (WG) conducted an detailed technical review of 2011 SCR guidelines for a revision of current requirements specified in this guideline. The Sub-Committee agreed to forward the draft revised guideline with a view to the approval at MEPC 71.

11. Guidelines for the use of more than one Engine Operational Profile (Agenda 20)

- The Sub-Committee considered the information with regard to Engine Operational Profiles (Maps) and acceptability on the use of more than one MAP for engine certification in accordance with NOx Technical Code(NTC).
- Through the work at this session, the Sub-committee developed a definition of MAP for the purpose of the NTC, agreed to the following scope for approval of MEPC 71.
 - (Definition) MAP : "The emission performance resulting from the application of a particular set of NOX influencing settings as a function principally of engine speed and load as applied by an electronic engine management system. Those settings may relate to, but are not limited to, fuel injection, charge air/exhaust valve operation and charge air or exhaust bypass/waste-gate controls. Variation from settings is only allowed using approved auxiliary control devices as defined in regulation 2.4 of MARPOL Annex VI."

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- (Scope of new output) : "Consider whether multiple engine operational profiles (maps) should be allowed, and if so, what regulatory controls should be applied, noting that these may also need to include amendments to MARPOL Annex VI and the NOx Technical Code, and if not allowed, then what amendments would be necessary to MARPOL Annex VI and the NOx Technical Code to explicitly prohibit multiple engine operational profiles (maps)."

12. The 0.50% Sulphur limit (Agenda 20)

- MEPC 70 agreed that the effective date of 0.5% m/m global Sulphur limit shall be 1st Jan. 2020, as set out in regulation of 14.1.3 of MARPOL Annex VI, to forward the relevant documents to draft a justification and scope for new output on what additional measures may be developed to promote consistent implementation of the 0.50% global sulphur limit, for consideration at MEPC 71.
- As instructed by MEPC 70, The Sub-committee agreed a draft justification prepared and scope for approval at MEPC 71.
- Items in scope for new output.
 - preparatory and transitional issues
 - impact on fuel and machinery systems
 - verification issues and control mechanisms and actions that are necessary to ensure compliance and consistent implementation
 - develop a draft standard format (a standardized system) for reporting fuel oil non-availability
 - develop guidance, as appropriate, that may assist Member States and stakeholders



Briefings of IMO Meeting

PPR 4 (16 - 20 January 2017)

No. IMO-0002-2017

BRIEFING STATUS

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- request ISO to consider the framework of ISO 8217
- any consequential regulatory amendments and/or guidelines

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