

MARINE ENVIRONMENT PROTECTION  
COMMITTEE  
82nd session  
Agenda item 6

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## ENERGY EFFICIENCY OF SHIPS

### Proposed updates to the standardized data-reporting format for the data collection system and operational carbon intensity (appendix 3 of the SEEMP Guidelines)

Submitted by Liberia, Singapore, Türkiye, United Arab Emirates, IACS and RINA

#### SUMMARY

<i>Executive summary:</i>	This document proposed consequential updates to the standardized data-reporting format for the data collection system and operational carbon intensity (appendix 3 of the SEEMP Guidelines), seeking alignment with the amendments to appendix IX of MARPOL Annex VI as adopted by resolution MEPC.385(81), and the amendments to the <i>2022 Guidelines for the development of a Ship Energy Efficiency Management Plan (SEEMP)</i> (resolution MEPC.346(78)), adopted by resolution MEPC.388(81).
<i>Strategic direction, if applicable:</i>	3
<i>Output:</i>	3.2
<i>Action to be taken:</i>	Paragraph 9
<i>Related documents:</i>	Resolutions MEPC.346(78), MEPC.385(81) and MEPC.388(81); MEPC 82/6/37 and MEPC 82/INF.29

#### Introduction

1 This document provides comments on the outcome of MEPC 81 related to the adoption of amendments to appendix IX of MARPOL Annex VI regarding data to be reported to the IMO Data Collection System (IMO DCS), which increased the range and granularity of data to be reported to the DCS and the need to update the standardized data-reporting format for the data collection system and operational carbon intensity.

#### Discussions

2 The co-sponsors would like to bring to the attention of the Committee that consequential amendments to appendix 3 of the SEEMP Guidelines, as contained in resolution MEPC.346(78), were inadvertently missed during the finalization of the amendments to appendix IX of MARPOL Annex VI adopted by resolution MEPC.385(81), and the amendments to the SEEMP Guidelines adopted by resolution MEPC.388(81) on *amendments to the 2022 Guidelines for the development of a Ship Energy Efficiency Management Plan (SEEMP)* (resolution MEPC.346(78)).

3 Regulation 27.3 of MARPOL Annex VI states that the data specified in appendix IX of the annex to MARPOL Annex VI is to be communicated electronically using a standardized form developed by the Organization. The collected data should be reported to the Administration in the standardized format shown in appendix 3 of the SEEMP Guidelines.

4 The co-sponsors have prepared an updated version of appendix 3 of the SEEMP Guidelines on the "Standardized data-reporting format for the data collection system and operational carbon intensity", in order to assist Administrations with the collection and reporting of the enhanced data (e.g. per fuel type/per consumer type) to reflect the latest amendments to appendix IX of MARPOL Annex VI adopted by resolution MEPC.385(81) and to the SEEMP Guidelines adopted by resolution MEPC.388(81). Once this proposal is agreed, similar amendments will also be required for appendix 2 of the *2022 Guidelines for Administration verification of ship fuel oil consumption data and operational carbon intensity* (resolution MEPC.348(78)) at a future session.

5 Taking into account the new updates, it was considered necessary to also clarify the start and end date for data collection in accordance with regulations 27 and 28, in the event of a transfer of a ship, as described in regulations 27.4, 27.5 and 27.6. In the case of regulation 27, it is clarified that the data to be collected is for the actual "period of the calendar year for which the data is submitted", i.e. for a partial period or a full calendar year, as applicable. With regard to regulation 28, the footnote as contained in appendix X of MARPOL Annex VI was included to reflect regulation 28.3 clarifying that the reporting is for the full 12-month period from 1 January to 31 December.

6 In addition, owing to the number of changes to the SEEMP Guidelines and noting that MEPC 81 was not requested to consolidate the existing resolutions, the co-sponsors are of the opinion that MEPC 82 should agree to instruct the Secretariat to consolidate the current version of the SEEMP Guidelines and the latest amendment, resolutions MEPC.346(78) and MEPC.388(81) respectively. This would assist with the implementation of the new requirements and facilitate future revisions of the SEEMP Guidelines.

### **Proposals**

7 The proposed draft amendments to appendix 3 on the "standardized data-reporting format for the data collection system and operational carbon intensity", as contained in the annex to this document, are submitted for consideration by the Committee with a view to adoption at this session.

8 The co-sponsors request the Committee to instruct the Secretariat to issue a consolidated version of the SEEMP Guidelines, considering the comments in paragraph 5 above.

### **Action requested of the Committee**

9 The Committee is invited to consider the proposals in paragraphs 7 and 8 of this document and take action as appropriate.

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## ANNEX

### PROPOSED UPDATES TO THE STANDARDIZED DATA REPORTING FORMAT FOR THE DATA COLLECTION SYSTEM AND OPERATIONAL CARBON INTENSITY TO THE ADMINISTRATION

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#### Identity of the ship

Name of the ship	
Company	
Flag	
IMO number	
Period of the calendar year for which the data is submitted	
Start date for DCS (dd/mm/yy)	
End date for DCS (dd/mm/yy)	

#### Technical characteristics of the ship

Year of delivery		
Ship type, as defined in regulation 2.2 of MARPOL Annex VI or other (to be stated)		
Gross tonnage (GT)		
Net tonnage (NT)		
Deadweight tonnage (DWT)		
Power output (rated power) over 130 (kW)	Main Engine(s)	
	Auxiliary Engine(s)	
Attained EEDI (if applicable)		
Attained EEXI (if applicable)		
Ice class (if applicable)		

#### Fuel oil<sup>1</sup> consumption data

Total fuel oil consumption data		
Fuel oil type	Quantity in metric tonnes (t)	Method(s) used for collecting fuel oil consumption data (BDN / Flow meters / bunker FO tank monitoring / LNG cargo tank monitoring / Cargo tank monitoring other than LNG)
Diesel/Gas Oil (CF: 3.206)		
LFO (CF: 3.151)		
HFO (CF: 3.114)		
LPG (Propane) (CF: 3.000)		

<sup>1</sup> Regulation 2.1.14 of MARPOL Annex VI defines "fuel oil" as any fuel delivered to and intended for combustion purposes for propulsion or operation on board a ship, including gas, distillate and residual fuels.

Total fuel oil consumption data		
LPG (Butane) (CF: 3.030)		
Ethane (CF: 2.927)		
LNG (CF: 2.750)		
Methanol (CF: 1.375)		
Ethanol (CF: 1.913)		
Other (.....) (Cf: .....		

Total fuel oil consumption data per consumer type			
Fuel oil type	Consumer type	Quantity in metric tonnes (t)	Method used for collecting fuel oil consumption data (Flow meters / bunker FO tank monitoring / subtraction / estimated)
Diesel/Gas Oil (CF: 3.206)	Main engines(s)		
	Auxiliary engine(s)/Generator(s)		
	Oil-fired Boiler(s)		
	Others (specify)		
LFO (CF: 3.151)	Main engines(s)		
	Auxiliary engine(s)/Generator(s)		
	Oil-fired Boiler(s)		
	Others (specify)		
HFO (CF: 3.114)	Main engines(s)		
	Auxiliary engine(s)/Generator(s)		
	Oil-fired Boiler(s)		
	Others (specify)		
LPG (Propane) (CF: 3.000)	Main engines(s)		
	Auxiliary engine(s)/Generator(s)		
	Oil-fired Boiler(s)		
	Others (specify)		
LPG (Butane) (CF: 3.030)	Main engines(s)		
	Auxiliary engine(s)/Generator(s)		
	Oil-fired Boiler (s)		
	Others (specify)		
Ethane (CF: 2.927)	Main engines (s)		
	Auxiliary engine(s)/Generator(s)		
	Oil-fired Boiler (s)		
	Others (specify)		
LNG (CF: 2.750)	Main engines(s)		
	Auxiliary engine(s)/Generator(s)		
	Oil-fired Boiler(s)		
	Others (specify)		
Methanol (CF: 1.375)	Main engines(s)		
	Auxiliary engine(s)/Generator(s)		
	Oil-fired Boiler(s)		
	Others (specify)		
Ethanol (CF: 1.913)	Main engines(s)		
	Auxiliary engine(s)/Generator(s)		
	Oil-fired Boiler(s)		
	Others (specify)		

Other(.....) (Cf: .....)	Main engines(s)		
	Auxiliary engine(s)/Generator(s)		
	Oil-fired Boiler (s)		
	Others (specify)		

Fuel oil consumption data while the ship is not under way, per consumer type			
Fuel oil type	Consumer type	Quantity in metric tonnes (t)	Method used for collecting fuel oil consumption data <sup>2</sup>
Diesel/Gas Oil (CF: 3.206)	Main engines(s)		
	Auxiliary engine(s)/Generator(s)		
	Oil-fired Boiler(s)		
	Others (specify)		
LFO (CF: 3.151)	Main engines(s)		
	Auxiliary engine(s)/Generator(s)		
	Oil-fired Boiler(s)		
	Others (specify)		
HFO (CF: 3.114)	Main engines(s)		
	Auxiliary engines		
	Oil-fired Boiler(s)		
	Others (specify)		
LPG (Propane) (CF: 3.000)	Main engines(s)		
	Auxiliary engine(s)/Generator(s)		
	Oil-fired Boiler(s)		
	Others (specify)		
LPG (Butane) (CF: 3.030)	Main engines(s)		
	Auxiliary engine(s)/Generator(s)		
	Oil-fired Boiler(s)		
	Others (specify)		
Ethane (CF: 2.927)	Main engines(s)		
	Auxiliary engine(s)/Generator(s)		
	Oil-fired Boiler(s)		
	Others (specify)		
LNG (CF: 2.750)	Main engines(s)		
	Auxiliary engine(s)/Generator(s)		
	Oil-fired Boiler(s)		
	Others (specify)		
Methanol (CF: 1.375)	Main engines(s)		
	Auxiliary engine(s)/Generator(s)		
	Oil-fired Boiler (s)		
	Others (specify)		
Ethanol (CF: 1.913)	Main engines (s)		
	Auxiliary engine(s)/Generator(s)		
	Oil-fired Boiler(s)		
	Others (specify)		
Other (.....) (Cf: .....)	Main engines(s)		
	Auxiliary engine(s)/Generator(s)		
	Oil-fired Boiler(s)		
	Others (specify)		

<sup>2</sup> Regulation 2.1.14 of MARPOL Annex VI defines "fuel oil" as any fuel delivered to and intended for combustion purposes for propulsion or operation on board a ship, including gas, distillate and residual fuels.

Total Distance Travelled (nm)	
Laden distance travelled (nm) (on a voluntary basis)	
Hours under way (h)	
Total amount of onshore power supplied (kWh)	

**For ships to which regulation 28 of MARPOL Annex VI applies:**

Total transport work	
Applicable CII	<input type="checkbox"/> AER ; <input type="checkbox"/> cgDIST
Required annual operational CII	
Start date for annual CII (dd/mm/yy) <sup>3</sup>	
End date for annual CII (dd/mm/yy) <sup>3</sup>	
Attained annual operational CII before any correction (AER in g CO <sub>2</sub> /dwt.nm or cgDIST in g CO <sub>2</sub> /gt.nm)	
Attained annual operational CII (AER in g CO <sub>2</sub> /dwt.nm or cgDIST in g CO <sub>2</sub> /gt.nm)	
Installation of innovative technology, if applicable (refer to MEPC.1/Circ.896)	<input type="checkbox"/> A ; <input type="checkbox"/> B-1 ; <input type="checkbox"/> B-2 ; <input type="checkbox"/> C-1 ; <input type="checkbox"/> C-2
Operational carbon intensity rating	<input type="checkbox"/> A ; <input type="checkbox"/> B ; <input type="checkbox"/> C ; <input type="checkbox"/> D ; <input type="checkbox"/> E
CII for trial purpose (none, one or more on voluntary basis)	<input type="checkbox"/> EEPI ; <input type="checkbox"/> cbDIST ; <input type="checkbox"/> cIDIST ; <input type="checkbox"/> EEOI
EEPI (gCO <sub>2</sub> /dwt.nm)	
cbDIST (gCO <sub>2</sub> /berth.nm)	
cIDIST (gCO <sub>2</sub> /m.nm)	
EEOI (gCO <sub>2</sub> /t.nm or others)	

<sup>3</sup> In the event of any transfer of a ship addressed in regulations 27.4, 27.5 or 27.6, these dates should be completed consistent with regulation 28.3 of MARPOL Annex VI (i.e. full 12-month period from 1 January to 31 December in the calendar year during which the transfer took place).