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## ENGINEERING CIRCULAR No.02 of 2018

File No.ENG/OPP-MARPOL-38(5)/Part-II

Dated 30<sup>th</sup> July, 2018

### Subject : IMO Data Collection System

#### Background

1. Noting that the seventieth session of United Nation General Assembly held on 25<sup>th</sup> September 2015 adopted Resolution “*Transforming our world: the 2030 Agenda for Sustainable Development*” requiring a plan of action for people, planet and prosperity.
2. Noting also that the aforesaid Resolution contains 17 Sustainable Development Goals (SDG) and 169 target areas of critical importance for humanity and the planet to be achieved by 2030. The Goal 14(*Conserve and sustainably use the oceans, seas and marine resources for sustainable development*)has set targets for significant reduction of marine pollution of all kinds by 2025 and that it aims to minimize and address the impacts of ocean acidification.
3. Noting further that the shipping relates to many of the SDG and the goal no. 14 specifically pertains to effective measures under MARPOL Annex VI regulations to control Green House Gas emissions (GHG) as it not only contributes towards global warming but also ocean acidification.
4. Realizing that a global regulatory framework addressing these emissions is in place under MARPOL Annex VI for new and existing ships and that there is a need to closely monitor GHG emissions from international shipping in terms of emission patterns, scenarios and reduction opportunities and barriers associated with these emissions in the short, mid and long term.
5. Realizing further that Marine Environment Protection Committee of IMO vide Resolution MEPC.278(70) has adopted amendments to MARPOL Annex VI incorporating new regulations for collection and reporting of ship fuel oil consumption data for ships of 5,000 GT and above considering that such ships account for approximately 85% of CO<sub>2</sub> emissions from international shipping.
6. The aforesaid mandatory requirement of fuel oil consumption data collection is the first step of a three-step approach developed by IMO of a three-step approach: data collection, data analysis, followed by decision-making on what further measures, if any, are required for further reduction of GHG emission.
7. In consideration of the foregoing the following narratives has been prepared highlighting the amendment provisions of chapter 4 of MARPOL Annex VI along with the reference documents, procedures of reporting, methodology, and responsibility for data collection and their transmission.
8. Therefore, all stake holders are hereby informed to abide by the requirements and adhere to the timelines as specified in this circular. The Surveyors of the

Administration shall verify the compliance with the requirements of the circular during the ISM audit and flag state inspection / statutory survey of the vessel.

**A. Amendments to Chapter 4 of MARPOL Annex VI**

1. The summary of the amendments to MARPOL Annex VI adopted by Resolution MEPC.278(70) are:
  - a) The Ship Energy Efficiency Management Plan (SEEMP) to be revised to include Part II (the Ship Fuel Oil Consumption Data Collection Plan) which gives a description of the methodology for data collecting and the reporting processes.
  - b) Review of the revised SEEMP by the Administration or Recognized Organisation (RO), and issuance of Confirmation of Compliance on or before 31 December 2018.
  - c) Data collection for fuel oil consumption and relevant parameters as detailed in SEEMP for each ship - From 1 January 2019.
  - d) Aggregation of the collected data for each ship and reporting to the Administration or RO within three months after the end of each calendar year.
  - e) Verification of the reported data by the Administration or RO, and issuance of Statement of Compliance to each ship - No later than five months after the end of each calendar year.
  - f) Change of Flag/Owner: It is required to report the aggregating data collected during the period of belonging to the former Flag or Owner, on the day of completion of the transfer or as close as practical thereto.

**B. Reference Documents:**

1. Resolution MEPC 278(70) (Adopted on 28<sup>th</sup> October 2016): Amendments to MARPOL Annex VI (Data collection system for fuel oil consumption of ships).
2. Resolution MEPC 282(70): Guidelines for the development of a Ship Energy Efficiency Management Plan (SEEMP).
3. Resolution MEPC 292(71): Guidelines for Administration verification of ship fuel oil consumption data.
4. Resolution MEPC 293(71): Guidelines for the development and management of the IMO Ship Fuel Oil Consumption Data.
5. MEPC Circ.1/863(Recommendation on exemption of ships not normally engaged on International Voyages from the requirements in Chapter 4 of MARPOL Annex VI).
6. MEPC.1/Circ.876 Sample format for the confirmation of compliance, early submission of the SEEMP Part II on the ship fuel oil consumption data collection plan and its timely verification pursuant to regulation 5.4.5 of MARPOL Annex VI.

**C. Application of this circular with regard to implementation of IMO amendments to Chapter 4 of MARPOL Annex VI to Indian Ships for fuel oil consumption data reporting and verification**

1. This circular is applicable to all Indian vessels registered under the Merchant Shipping Act, 1958 (except FPSO, FSU, Drilling Rigs and Ships not propelled by mechanical means) and include the following categories:
  - Ships of 5000GT and above.
  - Ships of 5000GT and above certified in accordance with RSV Notification (DGS Order 18 of 2013) or Indian Coastal Vessel Notification (DGS Order 1 of 2014).
  - Ships less than 5000GT.
2. The specific requirements for application of Regulation 22A of MARPOL Annex VI to each category of ship described above is detailed in this circular.

**D. Definitions:**

1. Calendar year: Noon of 31<sup>st</sup> December 2018 to Noon of 31<sup>st</sup> December 2019 and so on thereafter.
2. Company:
  - a) Ships of 500GT and above: It means the Owner of the ship or any other organization or person such as the manager, or the bareboat charterer, who has assumed the responsibility for operation of the ship from the owner of the ship and who on assuming such responsibility has agreed to take over all the duties and responsibilities imposed by the International Management Code for the safe operation of ships and for pollution prevention, as amended.
  - b) Ships of less than 500GT: It means the Owner of the ship or any other organization or person such as the manager, or the bareboat charterer, who has assumed the responsibility for operation of the ship from the owner of the ship.

**E. Requirements for Fuel Oil consumption data collection and verification from Vessels of 5000GT and above.**

**1. Ship Energy Efficiency Management Plan:**

- a) By 30<sup>th</sup> September 2018: Submission of Part II of SEEMP with a description of the methodology that will be used to collect the data required by regulation 22A of MARPOL Annex VI and the process that will be used to report the data to a Recognized Organization (RO of Owners choice). **[Responsibility: Company]**.
- b) By 30<sup>th</sup> November 2018: Review of the Part II of SEEMP by the Recognized Organisation (RO) to ensure compliance with Regulation 22.2 of MARPOL annex VI and on satisfactory completion, issuance of Confirmation of Compliance. **[Responsibility: Recognized Organization]**.
- c) Reviewed SEEMP along with Confirmation of Compliance to be placed on new ships on/before the date of delivery and for second-hand take over ships registered under Indian Flag at the time of issuance of first statutory surveys(interim or full term, whichever is issued first). **[Responsibility: Company and Recognized Organization]**.

2. **Data Collection and submission:** By 29<sup>th</sup> February 2020 and 28<sup>th</sup>/29<sup>th</sup> February of each calendar year thereafter: Company to aggregate the collected fuel oil consumption and other relevant data as detailed in Regulation 22A of Chapter 4 of MARPOL Annex VI for each ship and submit the same to Recognized Organization which has reviewed the SEEMP. **[Responsibility: Company]**.

**3. Verification of the reporting data by the Administration or RO, and issuance of Statement of Compliance:**

- a) By 30<sup>th</sup> April 2020 and by 30<sup>th</sup> April of each calendar year thereafter - Upon receipt of data, the Recognized Organization shall verify the submitted data taking into account Resolution MEPC 292(71): 2017 (Guidelines for Administration verification of ship fuel oil consumption data).
- b) After satisfactory completion of the verification, the Recognized Organisation shall issue a Statement of Compliance – Fuel Oil Consumption Reporting (for each ship for which the data is reported and verified) valid till 31<sup>st</sup> May of the calendar year next to the data reporting year (next to next of data collecting calendar year). **[Responsibility: Recognized Organization]**.

4. **Submission of verified data to Indian Register of Shipping:** By 31<sup>st</sup> May 2020 and 31<sup>st</sup> May of every calendar year thereafter: Company shall submit the verified data to IRS for each ship in an extensible mark-up language (XML) format along

with a copy of Statement of Compliance issued by the Recognized Organization. [Responsibility: Company]. IRS shall acknowledge receipt of data promptly to the reporting Company identifying the ships for which data have been received. [IRS]

5. **Submission of verified data to IMO Fuel Oil Consumption Database:** By 30<sup>th</sup> June 2020 and 30<sup>th</sup> June of every Calendar Year thereafter: [Responsibility: Indian Register of Shipping].
  - a) IMO Ship Fuel Oil Consumption Database has been launched as a new module within the Global Integrated Shipping Information System (GISIS) platform and Member States now have access to the Database.
  - b) A recognized organization can access the Database and submit the fuel oil consumption data only after it has been authorized by a Party to MARPOL Annex VI to submit data on its behalf via the Database. Therefore, the Competent Authority in the directorate shall authorize Indian Register of Shipping to submit the requisite fuel consumption data to IMO on its behalf and shall provide with them the necessary User-ID and password.
  - c) IRS to submit the data by 30<sup>th</sup> June every year to IMO fuel oil consumption database and submit a compliance report to the directorate by 15<sup>th</sup> July every year from 2020 onwards.

**F. Requirements for Fuel Oil consumption data collection and verification from Vessels of 5000GT and above certified in accordance with RSV Notification or Indian Coastal Vessel Notification.**

1. There is no requirement for review of revised SEEMP by Recognized Organizations. However, SEEMP to be revised to include the data collection and submission methodology in accordance with Regulation 22A which shall be verified at first IAPP Annual/Intermediate/Renewal Survey after 1<sup>st</sup> January 2019. For new ships/second hand ships coming to Indian Flag revised SEEMP to be available at the time of issuance of first interim/full term IAPP Certificate on behalf of Indian Flag.
2. The Company shall submit requisite fuel consumption (for each Indian ship managed by the Company) and other relevant data in the standardized format detailed in MEPC 282(70) to IRS by 30<sup>th</sup> April 2020 for the calendar year 2019 and thereafter on 30<sup>th</sup> April of each calendar year for the previous calendar year.
3. IRS shall verify the accuracy of the submitted data in accordance with Resolution MEPC 292(71): Guidelines for Administration verification of ship fuel oil consumption data.
4. A Statutory Memo to be complied by 30<sup>th</sup> April 2020 is to be inserted in the Class Status of each ship by the respective Classification Society. After receipt of relevant data, IRS shall issue a confirmation of receipt of the data to the Company of the ship for submission of the same to the Classification Society of the vessel, so that Statutory Memo compliance date can be extended to 30<sup>th</sup> April of the next calendar year and so on.

**G. Requirements for Fuel Oil consumption data collection and verification from Vessels of less than 5000GT**

1. There is no requirement for availability or approval of a revised Ship Energy Efficiency Management Plan.
2. Company to submit following data to IRS (which shall develop a Standardized format) by 30<sup>th</sup> April 2020 and 30<sup>th</sup> April of every Calendar Year thereafter:
  - Name of the Ship
  - IMO No./Official No.

- Type of Ship
- GT, Deadweight, NT
- Total Fuel Consumption (All types of Fuel)
- Rated Power of Main and Auxiliary Engine in KW.
- Whether the particular is supplied with Shore Electric Power during port stay.

3. A Statutory Memo to be complied by 30<sup>th</sup> April 2020 is to be inserted in the Class Status of each ship by the respective Classification Society. After receipt of above data, IRS shall issue a confirmation of compliance to this circular to the Shipping Company for submission of the same to the ship Classification Society, so that Statutory Memo compliance date can be extended to 30<sup>th</sup> April of the next Calendar Year and so on.

**H. Change of Flag and / or Company:** This part is applicable to all Indian ships to which any part of this circular applies.

1. **Change of Flag/Demolition** (from India to a Foreign Flag for ships of 5000GT and above):
  - a) Company to submit fuel consumption data and other relevant data till the date of completion of transfer/demolition to the Recognized Organization which has reviewed the revised SEEMP.
  - b) RO shall verify the data for compliance to this circular and issue Statement of Compliance – Fuel Oil Consumption Reporting.
  - c) Company to submit this Statement of Compliance – Fuel Oil Consumption reporting received from RO to IRS along with data in requisite format. IRS shall endorse a copy of Statement of Compliance – Fuel Oil Consumption Reporting after receiving the data.
  - d) Registrar of the vessel to ensure that above Statement of Compliance – Fuel Oil Consumption reporting endorsed by IRS is available prior issuing Registry deletion certificate.
2. **Change of Flag/Demolition** (from India to a Foreign Flag for ships of 5000GT and above certified as per RSV or Indian Coastal Vessel Notification and Ships less than 5000GT):
  - a) Company to submit fuel consumption data till the day of completion of transfer/demolition to IRS in the format required by this circular.
  - b) IRS shall verify the data for compliance to this circular and issue a confirmation of receipt of data.
  - c) Registrar of the vessel to ensure that above confirmation of receipt of data issued by IRS is available prior issuing Registry deletion certificate.
3. **Change of Company without Change of Registered Owner and Flag (Ships of 5000GT and above):**
  - a) The previous Company to submit the requisite data (till the date of completion of transfer) in the format required by this circular to the Recognized Organization which has reviewed the revised SEEMP.
  - b) Upon satisfactory completion of verification of the data RO to issue Statement of Compliance- Fuel Oil Consumption Reporting valid till 31<sup>st</sup> May of next calendar year.
  - c) The previous Company to submit a copy of Statement of Compliance – Fuel Oil Consumption Reporting along with data in the requisite format (within 15 days of date of completion of transfer to IRS) for onward submission of the data to IMO.
4. **Change of Company without Change of Registered Owner and Flag (Ships of 5000GT and above certified as per RSV or Indian Coastal Vessel**

**Notification and Vessels less than 5000GT):**

- a) Previous Company to submit fuel consumption and other requisite data till the date of completion of transfer to IRS in the requisite format to the new company.
- b) New Company to submit the consolidated data for the calendar year to IRS in accordance with the requirements of this circular.

**I. Responsibilities of Indian Register of Shipping**

A report detailing various permutation and combination on the fuel oil consumption data so collected basis age of vessel (age brackets 0-5 years / 5-15 years etc), type of vessel(Bulk Carrier, General Cargo, Tug, Off-shore vessels and so on), gross tonnage(0-500gt, 500-1000gt, 1000-3000gt, 3000-5000gt, 5000-10000gt, 10000-50000gt and so on), nature of voyage (coastal, foreign going), supplied with/not supplied with shore power, type of fuel (gas oil, diesel oil, heavy oil, gas etc) etc. shall be prepared for all three categories of Indian ships detailed in this circular and forward to the competent authority in the directorate in confidentiality by 1<sup>st</sup> August 2020 and 1<sup>st</sup> August of every Calendar Year thereafter for the previous Calendar Year.

- J.** This circular is issued with the approval of Chief Surveyor with Government of India.

**Sd/-**  
**(Vikrant Rai)**  
**Engineer & Ship Surveyor –Cum-Dy. DG (Tech.)**

To,

1. The Principal Officers, Mercantile Marine Department, Mumbai/Kolkata/Chennai/Kandla/Kochi.
2. Surveyor-In-Charge, Mercantile Marine Department, Noida/Jamnagar/Marmugoa, Mangalore, Tuticorin, Visakhapatnam, Haldia, Paradip, Port Blair.
3. All Recognised Organizations.
4. All Shipping Companies

Copy to:-

1. INSA / FOSMA / MASSA
2. Chief Surveyor with the Govt. of India-cum-Nautical Adviser (I/C) to the Govt. of India.
3. Chief Ship Surveyor with the Govt. of India.
4. Joint DG
5. Hindi Cell
6. Computer Cell
7. Guard file

