

**ANNEX 11**

**RESOLUTION MEPC.349(78)  
(adopted on 10 June 2022)**

**2022 GUIDELINES FOR THE DEVELOPMENT AND MANAGEMENT OF THE IMO SHIP  
FUEL OIL CONSUMPTION DATABASE**

THE MARINE ENVIRONMENT PROTECTION COMMITTEE,

RECALLING Article 38(a) of the Convention on the International Maritime Organization concerning the functions of the Marine Environment Protection Committee (the Committee) conferred upon it by international conventions for the prevention and control of marine pollution from ships,

NOTING that the Committee, at its seventy-sixth session, adopted, by resolution MEPC.328(76), the *2021 Revised MARPOL Annex VI*, which will enter into force on 1 November 2022,

NOTING IN PARTICULAR that the *2021 Revised MARPOL Annex VI* (MARPOL Annex VI) contains amendments concerning mandatory goal-based technical and operational measures to reduce carbon intensity of international shipping,

NOTING ALSO that regulation 27.12 of MARPOL Annex VI specifies that the Secretary-General of the Organization shall maintain an anonymized database such that identification of a specific ship will not be possible,

NOTING FURTHER that regulation 27.13 of MARPOL Annex VI requires that the IMO Ship Fuel Oil Consumption Database be undertaken and managed by the Secretary-General of the Organization, pursuant to guidelines developed by the Organization,

RECOGNIZING that the aforementioned amendments to MARPOL Annex VI require relevant guidelines for uniform and effective implementation of the regulations and to provide sufficient lead time for industry to prepare,

NOTING that the Committee, at its seventy-first session, adopted, by resolution MEPC.293(71), the *2017 Guidelines the development and management of the IMO Ship Fuel Oil Consumption Database*,

HAVING CONSIDERED, at its seventy-eighth session, draft *2022 Guidelines for the development and management of the IMO Ship Fuel Oil Consumption Database*,

1 ADOPTS the *2022 Guidelines for the development and management of the IMO Ship Fuel Oil Consumption Database*, as set out in the annex to the present resolution;

2 INVITES Administrations to take the annexed Guidelines into account when developing and enacting national laws which give force to and implement requirements set forth in regulation 27 of MARPOL Annex VI;

3 REQUESTS the Parties to MARPOL Annex VI and other Member Governments to bring the annexed Guidelines to the attention of masters, seafarers, shipowners, ship operators and any other interested parties;

4 AGREES to keep the Guidelines under review in light of experience gained with their implementation, also taking into consideration that in accordance with regulations 25.3 and 28.11 of MARPOL Annex VI a review of the technical and operational measures to reduce carbon intensity of international shipping shall be completed by 1 January 2026;

5 REVOKES the *2017 Guidelines the development and management of the IMO Ship Fuel Oil Consumption Database* adopted by resolution MEPC.293(71).

## ANNEX

### 2022 GUIDELINES FOR THE DEVELOPMENT AND MANAGEMENT OF THE IMO SHIP FUEL OIL CONSUMPTION DATABASE

#### 1 INTRODUCTION

1.1 These Guidelines provide guidance on the development and management of the IMO Ship Fuel Oil Consumption Database (hereafter "the database"), and describe methods that will be used to anonymize ship data for use by Parties, in accordance with regulation 27 of MARPOL Annex VI, and to ensure the completeness of the database.

1.2 In general, the purpose of the database is to provide data for establishing annual CO<sub>2</sub> emissions from ships and support consideration of further measures for reducing carbon intensity of international shipping.

1.3 With regard to data confidentiality, regulation 27.12 stipulates that "The Secretary-General of the Organization shall maintain an anonymized database such that identification of a specific ship will not be possible. Parties shall have access to the anonymized data strictly for their analysis and consideration." These Guidelines balance data anonymization with the usability of data for analysis by the Parties and Organization.

1.4 Regulation 27.13 states that "The IMO Ship Fuel Oil Consumption Database shall be undertaken and managed by the Secretary-General of the Organization, pursuant to guidelines to be developed by the Organization." With regard to the establishment of the database and for data visualization, it will be developed as a module within the Global Integrated Shipping Information System (GISIS) platform and associated web application, as necessary, with the integrated IMO Web Accounts framework utilized to manage secure access to the module.

#### 2 DEFINITIONS

For the purpose of these Guidelines, the definitions in MARPOL Annex VI apply.

#### 3 DATA ANONYMIZATION

Pursuant to regulation 27.12 of MARPOL Annex VI, the data are to be anonymized such that identification of a specific ship will not be possible. For the purpose of the anonymization of the fuel oil consumption data, the following should apply for the database:

- .1 the IMO number and ship flag should not be shown;
- .2 gross tonnage (GT), net tonnage (NT), deadweight tonnage (DWT) and power output (rated power) should be rounded to two significant digits, for example, a ship tonnage of 167,430 GT should be shown as 170,000 GT;
- .3 attained EEDI and attained EEXI should be rounded to two decimal places;
- .4 required annual operational CII (AER or cgDIST), attained annual operational CII (AER or cgDIST), attained annual operational CII (AER or cgDIST) before any correction and operational carbon intensity indicators for trial purpose on voluntary basis (e.g. EEPI, cbDIST, cDIST and EEOI)<sup>1</sup> should be rounded to one decimal place;

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<sup>1</sup> Refer to *2022 Guidelines on operational carbon intensity indicators and the calculation methods (CII guidelines, G1)* (resolution MEPC.352(78)).

- .5 the annual data of fuel oil consumption, distance travelled and hours under way should be provided in full without modification;
- .6 ship types other than those defined in regulation 2 should be shown as "others"; and
- .7 ice class should be shown as "Yes" or "No".

#### **4 DATA SUBMISSION AND ACCESS**

4.1 An Administration should be able to log in to the online database to submit its data via an online form. The data input into the database should be checked by the database system to ensure that the data are being submitted in the standardized format and be cross-referenced with the data from the Ship Particulars module of GISIS.

4.2 The Administration should designate a contact person for the purposes of the database who is responsible for communication with the Secretariat if any matter arises with regard to the submission of data by the respective Administration.

4.3 To encourage the consistent submission of data and improve the usability of the database, automatic notifications and reminders concerning data submission, modification and database update could be incorporated as features in the database.

4.4 An Administration will have access to non-anonymized data of ships flying its flag. Furthermore, the Administration of a ship, to which regulation 28 of MARPOL Annex VI applies, will have access to all reported data for the preceding calendar year for that ship regardless of flag history.

4.5 An Administration should be able to log in to the online database to download the anonymized dataset.

#### **5 MEASURES TO ENSURE THE COMPLETENESS OF THE DATABASE**

In accordance with the requirements of regulation 27.10 of MARPOL Annex VI concerning reporting of the status of missing data, the Secretary-General should:

- .1 at the beginning of each calendar year, produce a list of ships falling under the scope of regulation 27 by cross-referencing with the data from the Ship Particulars module of GISIS;
- .2 send the aforementioned list of ships to the Administration for reference, in order to receive feedback in case of any discrepancies;
- .3 check the completeness of the database by comparing the list produced under .1 with the reported data;
- .4 remind Administrations which have failed to submit the data in the required form;
- .5 report the status of missing data to the Committee on an annual basis; and
- .6 request non-reporting Administrations to submit the data of all their registered ships falling under the scope of regulation 27.

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## 6 ANNUAL REPORT TO THE MARINE ENVIRONMENT PROTECTION COMMITTEE

Regulation 27.10 states that "the Secretary-General of the Organization shall produce an annual report to the Marine Environment Protection Committee summarizing the data collected, the status of missing data, and such other relevant information as may be requested by the Committee." At a minimum, each annual report should include the following and also any other information as requested by the Committee:

- .1 an aggregated annual amount of each type of fuel oil consumed by all ships of 5,000 GT and above engaged on international voyages;
- .2 the aggregated annual amount of each type of fuel oil consumed, distance travelled and hours under way for ships of 5,000 GT and above engaged on international voyages, by ship type and size category as defined in MARPOL Annex VI<sup>2</sup>, including the "other" category for ships not defined in MARPOL Annex VI regulation 2;
- .3 the number of ships of 5,000 GT and above engaged on international voyages reported to the database, by ship type and size category as defined in MARPOL Annex VI<sup>2</sup>, including the "other" category for ships not defined in MARPOL Annex VI regulation 2;
- .4 the number of ships of 5,000 GT and above engaged on international voyages registered with the Party of Annex VI for which data was not received, by ship type and size category as defined in MARPOL Annex VI<sup>2</sup>, including the "other" category for ships not defined in MARPOL Annex VI regulation 2; and
- .5 the annual development in operational carbon intensity of the ship types and international shipping, as well as the uncertainties in the data and results, using both demand-based measurement and supply-based measurement, as stated in paragraph 1.5 of the *2021 Guidelines on the operational carbon intensity reduction factors relative to reference lines (CII reduction factors guidelines, G3)*.

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<sup>2</sup> In order to facilitate year-over-year comparison, the Secretariat may also consider using ship type and size categories as used in the Fourth IMO GHG Study 2020, as appropriate.

