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GREENHOUSE GAS MODULE IN THE GLOBAL INTEGRATED SHIPPING INFORMATION SYSTEM

1 The Marine Environment Protection Committee, at its fifty-sixth session (July 2007), agreed to the format for a greenhouse gas (GHG) module in the Global Integrated Shipping Information System (GISIS) based on the Interim Guidelines for Voluntary Ship CO₂ Emission Indexing for Use in Trials (MEPC/Circ.471).

2 IMO Assembly resolution A.963(23) on “IMO Policies and Practices Related to the Reduction of Greenhouse Gas Emissions from Ships” urged the Marine Environment Protection Committee (MEPC) to identify and develop the mechanism or mechanisms needed to achieve the limitation or reduction of Greenhouse Gas (GHG) emissions from international shipping and, in doing so, to give priority to the establishment of a GHG baseline; and the development of a methodology to describe the GHG efficiency of a ship in terms of GHG emission index for that ship. In developing the methodology for the GHG emission indexing scheme, MEPC should recognize that CO₂ is the main greenhouse gas emitted by ships.

3 As urged by the Assembly, MEPC 53 (July 2005) approved Interim Guidelines for Voluntary Ship CO₂ Emission Indexing for Use in Trials (MEPC/Circ.471).

4 The Interim Guidelines should be used to establish a common approach for trials on voluntary CO₂ emission indexing, which will enable shipowners to evaluate the performance of their fleet with regard to CO₂ emissions. As the amount of CO₂ emitted from a ship is directly related to the consumption of bunker fuel oil, the CO₂ indexing will also provide useful information on a ship’s performance with regard to fuel efficiency.

5 The Committee invites Members States to input CO₂ indexing data from voluntary trials into the GHG module in GISIS. The procedures for inputting the data is available at the IMO website (<http://gisis.imo.org/Members/GHG>).

6 The CO₂ Index is used as an interim monitoring index for energy efficiency of a ship in operation, limited to efficiency expressed as CO₂ emitted per unit of transport work.

7 The format for a GHG module in GISIS is based on the Interim Guidelines for Voluntary Ship CO₂ Emission Indexing for Use in Trials and is attached as annex to this circular.

ANNEX

GHG MODULE FOR GISIS DATABASE

Mandatory parameters										Optional parameters					
Name of parameters	Cargo unit ¹	Ship Category ²	Gross Tonnage	CO ₂ Index	Indexing commence	Index period ³	Dead weight	Cargo capacity	Reference ⁴	Index data ⁵	Year built	Service Speed	Contract type ⁶	Trade type ⁷	Comment
Unit of parameters	[-]	[list]	[-]	[g /X*nm]	[year]	[days]	[DWT]	[-] same as Cargo unit	text	See below	[year]	knots	text	text	text
An example of numbers and texts for Containership	TEU	Container ship	12,345	321	2005	365	12,345	2000	Name, e-mail, etc		2001	21		Line service	-



Voyage or day (i)	Fuel consumption (FC) at sea and in port in tonnes				Voyage or time period data	
	Fuel type ()	Fuel type ()	Fuel type ()	...	Cargo (m) (tonnes or units)	Distance (D) (NM)
1						
2						
3						
4						
..						
..						

¹ TEU, Tonnes, Passengers, m³ for liquid bulk cargoes.

² Choose from list using Fairplay definitions.

³ Period (days, months) covered by the data used to calculate the index (Should be at least twelve months).

⁴ Contact details of data provider [name – e-mail address].

⁵ Fuel consumption and transport work data for individual voyage legs [insert comment field].

⁶ Long term charter, spot, etc.

⁷ Fixed route, spot trade, short, etc.