



GUIDANCE NOTES

CHINA CLASSIFICATION SOCIETY

**GUIDELINES FOR EVALUATION OF
SHIP OPERATIONAL CARBON
INTENSITY AND DEVELOPMENT AND
VERIFICATION OF SHIP ENERGY
EFFICIENCY MANAGEMENT PLAN
PART III**

CCS RULE CHANGE NOTICE

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2.1 Determination of CII reference line and reduction factor

2.1.2 CII reduction factor

(1) The CII reduction factor, generally denoted as "Z", is a positive value, stipulating the percentage points of the Required CII of a ship for a given year lower than the reference value (CII_{ref}).

(2) Reduction factor Z for the Required CII from year 2023 to ~~2026~~ 2030 is as specified in Table 2.1.2.

Reduction factor for the CII relative to the reference line **Table 2.1.2**

| Year | Reduction factor to the reference lines Z% |
|------|--|
| 2023 | 5 % |
| 2024 | 7 % |
| 2025 | 9 % |
| 2026 | 11 % |
| 2027 | —13.625% |
| 2028 | —16.250% |
| 2029 | —18.875% |
| 2030 | —21.500% |

~~(3) Z factors for the years of 2027 to 2030 will be further strengthened and developed by IMO taking into account the review of the short term measure the the Initial IMO Strategy on Reduction of GHG Emissions from Ships.~~

APPENDIX 3
STANDARDIZED DATA REPORTING FORMAT FOR THE
DATA COLLECTION SYSTEM AND OPERATIONAL
CARBON INTENSITY TO THE ADMINISTRATION

| | | | |
|---|--|------------------|--|
| Name of the ship | | IMO number | |
| Company | | Year of delivery | |
| Flag | | Ship type | |
| Gross tonnage | | DWT | |
| Applicable CII | <input type="checkbox"/> AER; <input type="checkbox"/> egDIST | | |
| 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"/> ebDIST; <input type="checkbox"/> elDIST; <input type="checkbox"/> EEOI | | |
| Attained annual operational CII before any correction (AER in g CO ₂ /dwt.nm or egDIST in g CO ₂ /gt.nm) | | | |
| Attained annual operational CII (AER in g CO ₂ /dwt.nm or egDIST in g CO ₂ /gt.nm) | | | |
| End date for annual CII (dd/mm/yy)* | | | |
| Start date for annual CII (dd/mm/yy)* | | | |
| Attained EEDI (if applicable) | | | |
| Attained EEXI (if applicable) | | | |
| EEPI(gCO ₂ /dwt.nm) | | | |
| ebDIST(gCO ₂ /berth.nm) | | | |
| elDIST(gCO ₂ /m.nm) | | | |
| EEOI (gCO ₂ /t.nm or others) | | | |
| | | | |
| | | | |
| IMO number | | | |
| End date for DCS (dd/mm/yy) | | | |
| Start date for DCS (dd/mm/yy) | | | |

Identity of the ship

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

Technical characteristics of the ship

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

Fuel oil¹ consumption data

| <u>Total fuel oil consumption data</u> | | |
|---|--------------------------------------|---|
| <u>Fuel oil type</u> | <u>Quantity in metric tonnes (t)</u> | <u>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)</u> |
| <u>Diesel/Gas Oil (CF: 3.206)</u> | | |
| <u>LFO (CF: 3.151)</u> | | |
| <u>HFO (CF: 3.114)</u> | | |
| <u>LPG (Propane) (CF: 3.000)</u> | | |

¹ 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.

| | | |
|----------------------------------|--|--|
| <u>LPG (Butane) (CF: 3.030)</u> | | |
| <u>Ethane (CF: 2.927)</u> | | |
| <u>LNG (CF: 2.750)</u> | | |
| <u>Methanol (CF: 1.375)</u> | | |
| <u>Ethanol (CF: 1.913)</u> | | |
| <u>Other (.....) (Cf: _____)</u> | | |

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

| | | | |
|---------------------------------|---|--|--|
| | <u>engine(s)/Generator(s)</u> | | |
| | <u>Fired Boiler (s)</u> | | |
| | <u>Others (specify)</u> | | |
| <u>LNG (CF: 2.750)</u> | <u>Main engines(s)</u> | | |
| | <u>Auxiliary engine(s)/Generator(s)</u> | | |
| | <u>Fired Boiler(s)</u> | | |
| | <u>Others (specify)</u> | | |
| <u>Methanol (CF: 1.375)</u> | <u>Main engines(s)</u> | | |
| | <u>Auxiliary engine(s)/Generator(s)</u> | | |
| | <u>Fired Boiler(s)</u> | | |
| | <u>Others (specify)</u> | | |
| <u>Ethanol (CF: 1.913)</u> | <u>Main engines(s)</u> | | |
| | <u>Auxiliary engine(s)/Generator(s)</u> | | |
| | <u>Fired Boiler(s)</u> | | |
| | <u>Others (specify)</u> | | |
| <u>Other(.....) (Cf: _____)</u> | <u>Main engines(s)</u> | | |
| | <u>Auxiliary engine(s)/Generator(s)</u> | | |
| | <u>Fired Boiler (s)</u> | | |
| | <u>Others (specify)</u> | | |

| <u>Fuel oil consumption data while the ship is not under way, per consumer type</u> | | | |
|--|---|--|---|
| <u>Fuel oil type</u> | <u>Consumer type</u> | <u>Quantity _____ in metric tonnes (t)</u> | <u>Method used for collecting fuel oil consumption data</u> |
| <u>Diesel/Gas Oil (CF: 3.206)</u> | <u>Main engines(s)</u> | | |
| | <u>Auxiliary engine(s)/Generator(s)</u> | | |
| | <u>Fired Boiler(s)</u> | | |
| | <u>Others (specify)</u> | | |
| <u>LFO (CF: 3.151)</u> | <u>Main engines(s)</u> | | |
| | <u>Auxiliary engine(s)/Generator(s)</u> | | |
| | <u>Fired Boiler(s)</u> | | |
| | <u>Others (specify)</u> | | |
| <u>HFO (CF: 3.114)</u> | <u>Main engines(s)</u> | | |

| | | | |
|--|---|--|--|
| | <u>Auxiliary engines</u> | | |
| | <u>Fired Boiler(s)</u> | | |
| | <u>Others (specify)</u> | | |
| <u>LPG (Propane)</u> <u>(CF: 3.000)</u> | <u>Main engines(s)</u> | | |
| | <u>Auxiliary engine(s)/Generator(s)</u> | | |
| | <u>Fired Boiler(s)</u> | | |
| | <u>Others (specify)</u> | | |
| <u>LPG (Butane)</u> <u>(CF: 3.030)</u> | <u>Main engines(s)</u> | | |
| | <u>Auxiliary engine(s)/Generator(s)</u> | | |
| | <u>Fired Boiler(s)</u> | | |
| | <u>Others (specify)</u> | | |
| <u>Ethane (CF: 2.927)</u> | <u>Main engines(s)</u> | | |
| | <u>Auxiliary engine(s)/Generator(s)</u> | | |
| | <u>Fired Boiler(s)</u> | | |
| | <u>Others (specify)</u> | | |
| <u>LNG (CF: 2.750)</u> | <u>Main engines(s)</u> | | |
| | <u>Auxiliary engine(s)/Generator(s)</u> | | |
| | <u>Fired Boiler(s)</u> | | |
| | <u>Others (specify)</u> | | |
| <u>Methanol (CF: 1.375)</u> | <u>Main engines(s)</u> | | |
| | <u>Auxiliary engine(s)/Generator(s)</u> | | |
| | <u>Fired Boiler (s)</u> | | |
| | <u>Others (specify)</u> | | |
| <u>Ethanol (CF: 1.913)</u> | <u>Main engines (s)</u> | | |
| | <u>Auxiliary engine(s)/Generator(s)</u> | | |
| | <u>Fired Boiler(s)</u> | | |
| | <u>Others (specify)</u> | | |
| <u>Other (.....)</u> <u>(Cf: _____)</u> | <u>Main engines(s)</u> | | |
| | <u>Auxiliary engine(s)/Generator(s)</u> | | |
| | <u>Fired Boiler(s)</u> | | |
| | <u>Others (specify)</u> | | |

| | |
|---|--|
| <u>Total distance travelled (nm)</u> | |
| <u>Laden distance travelled (nm) (on a voluntary basis)</u> | |
| <u>Hours under way (h)</u> | |
| <u>Total amount of onshore power supplied (kWh)</u> | |

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

| | |
|---|--|
| <u>Total transport work</u> | |
| <u>Applicable CII</u> | <input type="checkbox"/> AER ; <input type="checkbox"/> cgDIST |
| <u>Required annual operational CII</u> | |
| <u>Start date for annual CII (dd/mm/yy)²</u> | |
| <u>End date for annual CII (dd/mm/yy)²</u> | |
| <u>Attained annual operational CII before any correction (AER in g CO₂/dwt.nm or cgDIST in g CO₂/gt.nm)</u> | |
| <u>Attained annual operational CII (AER in g CO₂/dwt.nm or cgDIST in g CO₂/gt.nm)</u> | |
| <u>Installation of innovative technology, if applicable (refer to MEPC.1/Circ.896)</u> | <input type="checkbox"/> A ; <input type="checkbox"/> B-1 ; <input type="checkbox"/> B-2 ; <input type="checkbox"/> C-1 ; <input type="checkbox"/> C-2 |
| <u>Operational carbon intensity rating</u> | <input type="checkbox"/> A ; <input type="checkbox"/> B ; <input type="checkbox"/> C ; <input type="checkbox"/> D ; <input type="checkbox"/> E |
| <u>CII for trial purpose (none, one or more on voluntary basis)</u> | <input type="checkbox"/> EEPI ; <input type="checkbox"/> cbDIST ; <input type="checkbox"/> clDIST ; <input type="checkbox"/> EEOI |
| <u>EEPI (gCO₂/dwt.nm)</u> | |
| <u>cbDIST (gCO₂/berth.nm)</u> | |
| <u>clDIST (gCO₂/m.nm)</u> | |
| <u>EEOI (gCO₂/t.nm or others)</u> | |

² 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).