

Subject

Voluntary Experience Building Phase of the IMO Data Collection System for fuel oil consumption for Singapore flagged ships

# **ClassNK**

## **Technical Information**

No. TEC-1140

Date 15 December 2017

To whom it may concern

The Maritime and Port Authority of Singapore (MPA) has issued SHIPPING CIRCULAR No.24 OF 2017 dated on 1 December 2017, encouraging Singapore registered ships of 5,000 gross tonnage and above to join the voluntary experience building phase (VEBP) of the IMO data collection system for fuel oil consumption (IMO DCS), as per attached.

1. Essential points of VEBP of IMO DCS

(1) The VEBP is one year start from 1 January 2018.

- The VEBP is voluntary exercise. Ship owners, ship managers and operators of Singapore registered ships can decide to participate or not.

(2) On or after 1 January 2018, each participating ship needs to collect data specified in Appendix IX of MARPOL ANNEX VI and report the data on a monthly basis by using a standardised data reporting format to Classification Society (MPA-RO). The monthly dataset is daily noon to noon values (at local time) and aggregated values for the month.

- The VEBP does not require revision of SEEMP (development of Data Collection Plan)
- A sample of standardised reporting format can be found at:  
<https://www.mpa.gov.sg/web/portal/home/port-of-singapore/circulars-and-notice/shipping-circulars/detail/21f3d001-7c34-43c1-8559-750642045dd1>

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(3) The MPA-RO will collect and report these monthly datasets to MPA within a month after the end of each month.

- The VEBP does not require data verification

The objective of VEBP is just to collect and report data to ensure the smooth implementation of the DCS for relevant parties from 2019 onwards as mandatory. Accordingly, the timelines and requirements as stated in MARPOL Annex VI (Resolution MEPC.278(70)) are to be followed as it is. For the details, please refer to Annex A of the Circular (Attachment 2 of this Technical Information).

(To be continued)

NOTES:

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For the relevant requirements of IMO DCS, ClassNK Technical Information No.TEC-1139 has been issued separately, so please refer also to that.

2. Participation to the VEBP

ClassNK as MPA-RO will support this VEBP effort.

The ship owners, ship managers and operators of Singapore registered ships, those who wish to participate in the VEBP, please contact to ClassNK EEDI Department.

For any questions about the above, please contact:

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Attachment:

1. MPA Shipping Circular No.24 of 2017
2. Annex A of MPA Shipping Circular No.24 of 2017



**MARITIME AND PORT AUTHORITY OF SINGAPORE  
SHIPPING CIRCULAR  
NO. 24 OF 2017**

MPA Shipping Division  
460 Alexandra Road  
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Singapore 119963  
[www.mpa.gov.sg](http://www.mpa.gov.sg)

1 December 2017

**Applicable to:** Ship owners, ship managers, operators of Singapore-registered ships and MPA's recognised organisations

**VOLUNTARY EXPERIENCE BUILDING PHASE OF THE IMO DATA COLLECTION SYSTEM FOR FUEL OIL CONSUMPTION**

- ***Resolution MEPC.278(70) Amendments to MARPOL Annex VI (Data collection system for fuel oil consumption of ships)***
- ***Resolution MEPC.282(70) 2016 Guidelines of the development of a ship energy efficiency management plan (SEEMP)***

1. This circular provides information on the voluntary experience building phase (VEBP) of the IMO data collection system for fuel oil consumption (DCS) for Singapore-registered ships in calendar year 2018. The Maritime and Port Authority of Singapore (MPA) invites the shipping community to participate in this one-year VEBP from 01 January 2018 onwards.

2. The 70<sup>th</sup> session of the IMO's Marine Environment Protection Committee (MEPC 70) adopted by Resolution MEPC.278(70) mandatory MARPOL Annex VI requirements for ships to collect and report their fuel oil consumption data from calendar year 2019. The resolution also invites the MARPOL Annex VI Parties to consider the application of these amendments to MARPOL Annex VI as soon as possible to ships entitled to fly their flag.

3. This VEBP will help MPA and the shipping community ensure the smooth implementation of the DCS from calendar year 2019 onwards and identify any implementation issues relating to the DCS. More information on the VEBP can be found in the section below, as well as the FAQ at **Annex A**.

**Voluntary experience building phase of the DCS in 2018**

4. The VEBP is a voluntary exercise applicable to all Singapore-registered ships of 5,000 gross tonnage and above. The VEBP will not apply to ships solely engaged in voyages within the port limits of Singapore and ships not propelled by mechanical

means, and platforms including FPSOs and FSUs and drilling rigs, regardless of their propulsion.

5. For the calendar year 2018, each ship should collect the data specified in Appendix IX of MARPOL Annex VI and report the data on a monthly basis to any of the classification societies authorised by MPA as MPA-recognised organisations. The monthly data set to be collected and reported is the daily noon to noon values (Local Time) and the aggregated values for the month. Subsequently, the MPA-recognised organisations will collect and report these monthly data sets to MPA. This report to MPA should be done within a month after the end of each month. No verification of the data is required for this VEBP.

6. A sample of a standardised data reporting format for the DCS that each ship could send to one of the MPA-recognised organisations can be found at **Annex B**. The sample is based on Appendix 3 of the Guidelines of the development of a ship energy efficiency management plan, as amended.

7. The VEBP will end upon the report of the December 2018 data set to MPA. From calendar year 2019, the timelines and requirements as stated in MARPOL Annex VI will apply.

8. Ship owners, ship managers, and operators of Singapore-registered ships who wish to participate in the VEBP are invited to contact any of the MPA-recognised organisations.

9. Any queries regarding this circular should be directed to Mr Mun Wei-Jun at (+65) 6375 6214 or email: [shipping@mpa.gov.sg](mailto:shipping@mpa.gov.sg).

CAPT DAKNASH GANASEN  
DIRECTOR OF MARINE  
MARITIME AND PORT AUTHORITY OF SINGAPORE

**ANNEX A**  
**MPA SHIPPING CIRCULAR NO. 24 OF 2017**

**FREQUENTLY ASKED QUESTIONS:  
SINGAPORE'S VOLUNTARY EXPERIENCE BUILDING PHASE (VEBP) OF  
THE IMO DATA COLLECTION SYSTEM FOR FUEL OIL CONSUMPTION  
(last updated on 1 December 2017)**

**1) When will the voluntary experience building phase (VEBP) begin? Why is MPA inviting the shipping community to participate in the VEBP?**

1st January 2018 for the entire calendar year of 2018. MPA will be embarking on a VEBP of the data collection requirements of the DCS to serve as an experience building exercise for Singapore-registered ships. This will help MPA and the shipping community ensure the smooth implementation of the DCS from calendar year 2019 onwards and identify any issues relating to the implementation of the DCS.

**2) Which Singapore-registered ships would be able to participate in the VEBP?**

The VEBP will be applicable to all Singapore-registered ships of 5,000 gross tonnage and above. The VEBP will not be applicable to ships solely engaged in voyages within the port limits of Singapore and ships not propelled by mechanical means, and platforms including FPSOs and FSUs and drilling rigs, regardless of their propulsion.

**3) Is the VEBP mandatory for all Singapore-registered ships?**

The VEBP is a voluntary exercise. All ship owners, ship managers, and operators of Singapore-registered ships are encouraged to participate in the VEBP and to make arrangements with any of the MPA-recognised organisation before 1st January 2018.

**4) Which data items should be collected and reported to an MPA-recognised organisation?**

Each ship should collect and report the data specified in Appendix IX of MARPOL Annex VI. A sample of a standardised data reporting format for the DCS can be found at Annex B of this shipping circular.

- Identity of the ship
  - IMO number
- Period of calendar year for which the data is submitted
  - Start date (dd/mm/yyyy)
  - End date (dd/mm/yyyy)
- Technical characteristics of the ship
  - Ship type, as defined in regulation 2 of MARPOL Annex VI or other (to be stated)
  - Gross tonnage (GT)
  - Net tonnage (NT)
  - Deadweight tonnage (DWT)

- Power output (rated power) of main and auxiliary reciprocating internal combustion engines over 130 kW (to be stated in kW)
- EEDI (if applicable)
- Ice class (if applicable)
- Fuel oil consumption, by fuel oil type in metric tonnes and methods used for collecting fuel oil consumption data
- Distance travelled
- Hours underway

**5) Which organisations are recognised by MPA to collect and report ships' data to MPA for the VEBP? What about the MARPOL Annex VI requirements on revising the SEEMP (i.e. Ship Fuel Oil Consumption Data Collection Plan), data verification and the Statement of Compliance etc.?**

During the VEBP in 2018, each participating ship should report the data to any of the classification societies authorised by MPA as recognised organisations.

When the mandatory MARPOL Annex VI DCS requirements becomes applicable, the MARPOL Annex VI requirements on revising the SEEMP (i.e. Ship Fuel Oil Consumption Data Collection Plan), data verification and the Statement of Compliance can be done by any of MPA's existing recognised organisations.

**6) MARPOL Annex VI requires a ship's SEEMP to be revised and approved with a Ship Fuel Oil Consumption Data Collection Plan on or before 31 December 2018. Does a ship's revised SEEMP need to be revised and approved for the VEBP? What about other requirements such as data verification and the Statement of Compliance etc.?**

The VEBP only applies to collecting and reporting ships' fuel oil consumption data. The timelines and requirements as stated in MARPOL Annex VI for revising the SEEMP (i.e. Ship Fuel Oil Consumption Data Collection Plan), data verification and the Statement of Compliance etc. will apply.

Ship owners, ship managers, and operators of Singapore-registered ships are advised to prepare and submit their Ship Fuel Oil Consumption Data Collection Plan well in advance of the 31 December 2018 deadline.

**7) What accompanying documents need to be reported by the ship apart from the data specified in Appendix IX of MARPOL Annex VI?**

No accompanying documents are required to be submitted for the VEBP because no verification of the data is required during the VEBP.

**8) What are the collection and reporting periods for the monthly data sets?**

Each ship should collect fuel oil consumption by fuel oil type, distance travelled and hours underway on a daily basis from 1200hrs Local Time to 1200hrs Local Time. Each month's data starts from 1200hrs LT of the first day of the month and ends at 1200hrs LT on the first day of the subsequent month.

At the end of each month, the monthly data set to be collected and reported is the daily noon to noon values and the aggregated values for the month.

### **9) What fuel oil consumption data does the ship have to collect and report?**

The ship should collect and report fuel oil consumption by fuel oil type in metric tonnes and methods used for collecting fuel oil consumption data. This includes all the fuel oil consumed on board including but not limited to the fuel oil consumed by the main engines, auxiliary engines, gas turbines, main/auxiliary boilers and inert gas generator, for each type of fuel oil consumed, regardless of the operations of the ship, i.e. underway, at berth, at anchorage, cargo operations, cargo heating, tank cleaning, etc.

This should be done in accordance with Appendix IX of MARPOL Annex VI and the 2016 SEEMP Guidelines (see paragraphs 7.1 – 7.3).

### **10) What constitutes “distance travelled” and “hours underway”?**

The ship should collect and report “distance travelled” and “hours underway” in accordance with Regulation 2.50 and Appendix IX of MARPOL Annex VI and the 2016 SEEMP Guidelines (see paragraphs 7.4 and 7.5).

“Distance travelled” should be distance travelled over ground in nautical miles while the ship is underway under its own propulsion. “Hours underway” should be while the ship is underway under its own propulsion.

In view of the above, MPA considers the recording of “distance travelled” and “hours underway” to be from Standby Engines (SBE) to Finish With Engines (FWE) as per the ship’s Arrival/Noon/Departure reports.

### **11) What if the ship changes company<sup>1</sup>?**

In the event of a change from one company to another (e.g. 15 January), the ship should on the day of completion of the change or as close as practical thereto report to its MPA-recognised organisation the required data for the portion of the month corresponding to the company (e.g. 1 – 14 January). Subsequently, the MPA-recognised organisation will report that portion of the month’s data set to MPA.

### **12) What if the ship changes Flag Administration?**

In the event of the transfer of a ship into the Singapore Registry of Ships (e.g. 15 January), the ship should on the day of completion of the transfer or as close as practical thereto begin to collect the required data. The ship should also report the required data for the portion of the month (e.g. 16 – 31 January) at the end of the month to a MPA-recognised organisation. Subsequently, the MPA-recognised

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<sup>1</sup> According to Regulation 2.49 of MARPOL Annex VI: “*Company* 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.”

organisation will report that portion of the month's data set to MPA. This report to MPA should be done within a month after the end of each month (e.g. 28 February).

In the event of the transfer of a ship out of the Singapore Registry of Ships (e.g. 15 January), the ship should on the day of completion of the transfer or as close as practical thereto report the required data for the portion of the month (e.g. 1 – 14 January) to a MPA-recognised organisation. Subsequently, the MPA-recognised organisation will report that portion of the month's data set to MPA.

**13)What if the ship changes recognised organisation that handles its DCS?**

In the event of a change from one MPA-recognised organisation to another (e.g. 15 January), the ship should on the day of completion of the change or as close as practical thereto report to the losing MPA-recognised organisation the required data for the portion of the month corresponding to the MPA-recognised organisation (e.g. 1 – 14 January). Subsequently, the losing MPA-recognised organisation will report that portion of the month's data set to MPA.

**14)What will MPA do with the reported data?**

MPA and MPA's approved entities may use the data for research purposes. All data and identities reported to MPA will be treated as confidential and anonymised.