

Subject

Emission Control of Volatile Organic Compounds (VOCs) from tankers  
- Designated Ports in Netherlands and the Republic of Korea

# **ClassNK**

## ***Technical Information***

No. TEC-0902  
Date 13 April 2012

To whom it may concern

In relation to the emission control of Volatile Organic Compounds (VOCs) from tankers, tankers subject to regulation 15 (3) of MARPOL Annex VI are to be provided Vapour collection system in accordance with the safety standards MSC/Circ.585 when calling at ports and terminals designated by IMO.

So far, there were no such designated ports and terminals for the emission control of VOCs, it was notified that the Netherlands and the Republic of Korea designated the ports under the specified conditions in MEPC.1/Circ.774 issued on 21 December 2011 (Refer to the Attachment 1).

As stipulated in regulation 15 (5) of MARPOL Annex VI, it is acceptable that existing tankers which are not fitted with Vapour collection system for a period of three years after each effective date of the control, especially, please be aware that the due date of some ports in the Republic of Korea is on 5 May 2012.

Applicable tankers which call at these designated ports are to be installed on Vapour collection system approved in accordance with the safety standards of MSC/Circ.585 and item 2.4.1 of the supplement of IAPP certificate is to be having a check mark accordingly.

In case if you request ClassNK to issue the revised IAPP certificate, plan approval of Vapour collection system manual and confirmation survey by its attending surveyor are to be required before the issuance of the revised IAPP certificate.

Such tankers are kindly requested to submit ClassNK Natural Resources and Energy Department Vapour collection system manual (refer to Note) for approval with a completed application form (see Attachment 2). After plan approval of it, examination survey will be carried out corresponding to your application, then the revised IAPP supplement will be issued.

In case of tankers having Vapour emission control system in accordance with USCG requirements and Vapour emission control system manual had been already approved by ClassNK, the revised IAPP supplement will be issued after its examination. Such tankers are kindly requested to contact ClassNK Natural Resources and Energy Department for its examination by e-mail/Fax message, etc.

(To be continued)

#### NOTES:

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(Note)

Vapour collection system manual is to include following contents:

- (1) General arrangement of the system
- (2) Cargo vapour control and collection piping
- (3) Venting capacity calculations
- (4) Basis for the determination of the maximum allowable transfer rate
- (5) Pressure drop calculations
- (6) Overflow alarm calculations
- (7) Tank gauging and overfill control system
- (8) Independent automatic shutdown system
- (9) Instrumentation and alarm system
- (10) Wiring diagrams
- (11) Operational procedures of the system

For any questions about the above, please contact:

NIPPON KAIJI KYOKAI (ClassNK)

Hull Department, Administration Center Annex, Head Office

Address: 3-3 Kioi-cho, Chiyoda-ku, Tokyo 102-0094, Japan

Tel.: +81-3-5226-2017

Fax: +81-3-5226-2019

E-mail: [hld@classnk.or.jp](mailto:hld@classnk.or.jp)

◇Department in charge until 31 March 2018

NIPPON KAIJI KYOKAI (ClassNK)

Natural Resources and Energy Department, Administration Center, Head Office

Address: 4-7 Kioi-cho, Chiyoda-ku, Tokyo 102-8567, Japan

Tel.: +81-3-5226-2042

Fax: +81-3-5226-2019

E-mail: [ned@classnk.or.jp](mailto:ned@classnk.or.jp)

Attachment:

1. MEPC.1/Circ.774
2. Application form for Approval of Vapour Collection System

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4 ALBERT EMBANKMENT  
LONDON SE1 7SR  
Telephone: +44 (0)20 7735 7611 Fax: +44 (0)20 7587 3210

MEPC.1/Circ.774  
21 December 2011

**INFORMATION ON DESIGNATED PORTS AT WHICH  
VOC EMISSIONS ARE REGULATED**

**Communication received from the Administrations of  
the Netherlands and the Republic of Korea**

1 In accordance with the provisions of regulation 15.4 of MARPOL Annex VI, communications have been received from the Administrations of the Netherlands and the Republic of Korea concerning designated ports or terminals at which volatile organic compounds (VOCs) emissions from tankers are regulated under regulation 15 of MARPOL Annex VI.

2 The details of the aforementioned communications have been uploaded to the IMO GISIS module under MARPOL Annex VI, and a summary of these is annexed hereto for circulation.

3 Member Governments are invited to bring this circular to the attention of their Administrations, relevant shipping organizations, recognized organizations, shipping companies and other stakeholders, and encourage them to take action as appropriate.

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ANNEX

DESIGNATED PORTS AT WHICH VOC EMISSIONS ARE REGULATED

| NAME OF PORTS, TERMINAL/FACILITY                                      |   | SIZE OF TANKERS     | CARGOES REQUIRING VAPOUR EMISSION CONTROL SYSTEMS  | EFFECTIVE DATE  |
|---|---|---------------------|--|-----------------|
| <b>The Netherlands</b>  |   |                     |  |                 |
| Amsterdam   | All terminals   | All sizes           | Cargoes with VOC, with the exception of methane, with a vapour pressure of 1 kPa (10 mbar) or more at a temperature of 293.15 K (20°C) or such cargoes with an equal volatility of 10 mbar | 9 November 2011 |
| Rotterdam   | Botlek Tank Terminal, Rubis, ETT, Argos   | All sizes           | Cargoes with VOC, with a vapour pressure of 1 kPa (10 mbar) or more at a temperature of 293.15 K (20°C). For Rubis only, substances under class LT2 are to be controlled                   | 9 November 2011 |
| Moerdijk  | Afval Stoffen Terminal Moerdijk ATM, Shell Chemie Moerdijk, Den Hartoch Moerdijk bv | All sizes           | Cargoes with VOC, smelling products and ADR Class 3 and 6  | 9 November 2011 |
| Terneuzen   | Dow Benelux BV Terneuzen, Oiltanking Terneuzen BV.                                  | 100,000 GT and less | Cargoes with VOC   | 9 November 2011 |
| Groningen   | VOPAK   | All sizes           | Cargoes with VOC, with the exception of methane, with a vapour pressure of 1 kPa (10 mbar) or more at a temperature of 293.15 K (20°C) or such cargoes with an equal volatility of 10 mbar | 1 July 2012     |
| Vlissingen  | Zeeland refinery  | 9,000 GT and above  | Cargoes with VOC   | 9 November 2011 |
| <b>The Republic of Korea</b>  |   |                     |  |                 |
| Busan<br>Incheon<br>Pyeongtaek/Dangjin<br>Ulsan<br>Yeosu<br>Kwangyang |   | 400 GT and above    | Crude oil<br>Gasoline<br>Naphtha   | 20 May 2009     |
| Daesan  |   | 400 GT and above    | Crude oil<br>Gasoline<br>Naphtha   | 20 May 2015     |

TO: Nippon Kaiji Kyokai  
 Natural Resources and Energy Department  
 (FAX:+81 3 5226 2019 E-mail: ned@classnk.or.jp)

### Application for Approval of Vapour Collection System Manual

We hereby request your Society to approve the Vapour Collection System Manual under Regulation 15 of MARPOL Annex VI

**Applicable Ships**

|    | Name of Ship | Class Number | IMO Number | Flag State |
|----|--------------|--------------|------------|------------|
| 1  |              |              |            |            |
| 2  |              |              |            |            |
| 3  |              |              |            |            |
| 4  |              |              |            |            |
| 5  |              |              |            |            |
| 6  |              |              |            |            |
| 7  |              |              |            |            |
| 8  |              |              |            |            |
| 9  |              |              |            |            |
| 10 |              |              |            |            |

To be continued\* / See attached sheet\*

**Applicant**

Name of Company: \_\_\_\_\_

Address : \_\_\_\_\_

Tel/Fax/E-mail : \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

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Name and Signature : \_\_\_\_\_  
 ( )

The relative fee will be paid by above \*/ following company\*.

\* : Delete as appropriate