

Subject:

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Application of MARPOL 73/78 Annex II
to Gas Carriers

NK TECHNICAL INFORMATION

No. 54

Date: 5 November, 1986

To Shipowners and Shipyards concerned

With respect to the application of Annex II of MARPOL 73/78 (hereinafter referred to as Annex II) to chemical tankers, NK Technical Informations No.38, dated 22 July 1985 and No.50, dated 25 August 1986 have been distributed to whom concerned. Annex II is also to be applied to gas carriers carrying noxious liquid substances listed in Appendix II of the Annex II as from 6 April 1987, as well as chemical tankers.

Gas carriers will not be allowed to be engaged in the carriage of such substances as listed in Annex II as from 6 April 1987 because it is practically impossible to fully apply the Annex II to gas carriers. However, for substances shown in the table of attachment 1 which are listed both in Annex II and Gas Carrier Code, IMO Unified Interpretations on Regulations 2(5) and (6) of Annex II (MEPC 22/24/Add.1, Annex 7) as shown in attachment 2 have been adopted as the equivalency for gas carriers. Gas carriers complying with this equivalency may be engaged in the carriage of these substances.

With regard to application of this equivalency, the following items are to be beared in mind.

- (1) A Certificate of Fitness which the ship should hold in accordance with the appropriate Gas Carrier Code (IGC Code, A.328(IX), A.329(IX) or Existing Gas Carrier Code depending on the date of construction)
- (2) Water test and surface residue assessment in order to comply with the stripping requirements of Regulation 5A(2)(b) or 5A(4)(b) of the Annex II.
- (3) Approved venting arrangements.

(To be cont.)



(4) Preparation of a Procedures and Arrangements Manual (P & A Manual)
for Gas Carriers approved by the Administration.

The Society is now discussing with the Administration for the above items and will announce concluded implementation of the Survey and Certification in due course.

We would like to advise you to make necessary arrangements for Gas carriers which have been engaged in and/or are intended to be engaged in the carriage of the substances shown in attachment 1, taking into account the above circumstances. For your reference, we would like to remind you that all the ships including those engaged in the coastal service irrespective of tonnage are required to comply with the requirements of Annex II.

If you have any questions on this matter, please contact Hull Department of the Head Office.

- The End -

Attachments

- 1: Substances listed both in Annex II and Gas Carrier Code
- 2: IMO Unified Interpretations (MEPC 22/21/Add.1, Annex 7)

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Substances listed both in Annex II and Gas Carrier Code

a Product name	b UN number	c Ship Type	d Independent tank type C required	e Control of vapour space within cargo tanks	f Vapoure detection	g Gauging	h Pollution category
Acetaldehyde	1089	2G/ 2PG	-	Inert	F + T	C	D
ethylene oxide- Propylene oxide mixtures with ethylene oxide content of not more than 30% by weight	2983	2G/ 2PG	-	Inert	F + T	C	D
Isoprene	1218	2G/ 2PG	-	-	F	R	C
Isopropylamine	1221	2G/ 2PG	-	-	F + T	C	C
Monoethylamine	1036	2G/ 2PG	-	-	F + T	C	C
Propylene oxide	1280	2G/ 2PG	-	Inert	F + T	C	D
Vinyl ethyl ether	1302	2G/ 2PG	-	Inert	F + T	C	C
Vinylidene chloride	1303	2G/ 2PG	-	Inert	F + T	R	B

IMO Unified Interpretation (MEPC 22/21/Add.1, Annex 7)

Equivalency for gas carriers

With respect to liquefied gas carriers carrying Annex II substances listed in the Gas Carrier Code, equivalency may be permitted under the terms of Regulation 2(5) on construction and equipment requirements contained in Regulation 5, 5A and 13 when a gas carrier meets all the following conditions:

- .1 hold a Certificate of Fitness in accordance with the appropriate Gas Carrier Code for ships carrying liquefied gases in bulk;
- .2 hold an International Pollution Prevention Certificate for the Carriage of Noxious Liquid Substances in Bulk (NLS Certificate);
- .3 be provided with segregated ballast arrangements;
- .4 be provided with deep well pumps and arrangements which minimize the amount of cargo residue remaining after discharge, to the extent that the Administration is satisfied on the basis of the design that the stripping requirements of Regulation 5A(2)(b) or 5A(4)(b), without regard to the limiting date, are met and the cargo residue can be vented to the atmosphere through the approved venting arrangements;
- .5 be provided with a Procedures and Arrangements Manual approved by the Administration. This Manual should ensure that no operational mixing of cargo residues and water will occur and, after venting, no cargo residues will remain; and
- .6 be certified in an NLS Certificate to carry only those Annex II noxious liquid substances listed in the appropriate Gas Carrier Code.

When such exemption is granted, notification required by Regulation 2(6) need not be made.