

Subject

Regarding the revised IBC/BCH code & MARPOL 73/78 Annex II which comes to effect from 1 January 2009 (For ships other than Japanese flag ships)

# **ClassNK**

## ***Technical Information***

No. TEC-0753  
Date 23 October 2008

To whom it may concern

The revision of IBC Code, BCH Code and MARPOL 73/78 Annex II (MSC219(82)/MEPC166(56)), which is applicable to chemical tankers and ships carrying noxious liquid substances in bulk, will come to effect from 1 January 2009. In the current revision, mainly, cargoes which were not included in the cargo list of the last major revision (2004Amendment) are included, but names and application requirements of some of the cargoes which were already registered are also modified as shown in Attachment 1. Therefore, it might be required to re-issue the IBC/BCH certificate (COF).

At present, ClassNK is investigating whether it is required to re-issue the IBC/BCH certificate and will inform of the results to the concerned Shipping Company (Management Company) from early November in the format of Attachment 2. If it is found that it is required to re-issue the certificate, you are requested to submit the application form in Attachment 3. If it is not required to re-issue the certificate, you are kindly requested to keep the copy of Attachment 2 to "Format of the investigation result report" onboard which may be useful during PSC inspection and other surveys.

In the case of certificates which are not required to be re-issued based on the above mentioned investigation, the new revision number will be reflected in the certificate at the next issuance of the certificate. However, if you wish to reflect the new revision number in the current certificate for your convenience, please also send your application for early re-issuance of the certificate.

As the above mentioned corrections to the cargo list are done by ClassNK on a continuous basis, it is considered that significant effect of this revision on the actual cargoes carried, such as deletion of some of the cargoes from the list attached to COF, is not likely there. However, since there are some cargoes, the requirements of which are changed substantially after 2007, detailed review of the ship's COF needs to be done to prevent any problems related to the certificate during PSC inspection or any such surveys. ClassNK ask the understanding and cooperation of all the parties concerned.

Please note that NLS certificate (Certificate for the carriage of Noxious Liquid Substances in Bulk) is valid even after 1 January 2009 as there is no change in the requirements of applicable cargoes. If necessary, please keep a copy of this Technical Information onboard ship as a supporting document during PSC and other surveys.

Regarding Japanese flag vessels, separate Technical Information will be issued as soon as finalized.

(To be continued)

#### NOTES:

- ClassNK Technical Information is provided only for the purpose of supplying current information to its readers.
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- Back numbers are available on ClassNK Internet Homepage (URL: [www.classnk.or.jp](http://www.classnk.or.jp)).

For any questions about the above, please contact:

NIPPON KAIJI KYOKAI (ClassNK)  
Hull Department, Administration Center, Head Office  
Address: 4-7 Kioi-cho, Chiyoda-ku, Tokyo 102-8567, Japan  
Tel.: +81-3-5226-2017  
Fax: +81-3-5226-2019  
E-mail: [hld@classnk.or.jp](mailto:hld@classnk.or.jp)

Attachments:

1. List of cargoes, the names and requirements of which are modified
2. Format of the investigation result report
3. Application form for the issuance of IBC/BCH code certificate

**Summary of Revised Minimum Requirements in Chapter 17 & 18;**

a	c	d	e	f	g	h	i			j	k	l	n	Special requirements
							i'	i''	i'''					
Acetic acid	Z→X→ Z													
Acrylic acid										R→C			No→Yes	15.13, 15.19.6, 16.2.9, 16.6.1 ↓ 15.11.2, 15.11.3, 15.11.4, 15.11.6, 15.11.7, 15.11.8, 15.12.3, 15.12.4, 15.13, 15.17, 15.19, 16.2.9, 16.6.1
Alcohol (C12- C16)poly(20+)ethoxylates														16.2.9 ↓ 15.19.6, 16.2.9
Alcohols (C8-C11), primary, linear and essentially linear														15.12.3, 15.2.4, 15.19.6, 16.2.6, 16.2.9 ↓ 15.12.3, 15.12.4, 15.19.6, 16.2.6, 16.2.9
Iso-and cyclo-alkanes (C10-C11)	Z→Y													nil→15.19.6
Iso-and cyclo-alkanes (C12+)	Z→Y													
n-Alkanes (C10+)	Z→Y												AB→A	15.19.6→nil→15.19.6
Alkyl (C9+) benzenes	Z→Y													
Alkyldithiothiadiazole (C6-C24)	Z→Y												AB→A	nil→15.19.6, 16.2.6
Ammonia aqueous (28% or less)														nil→15.19.6
Benzyl acetate														nil→15.19.6
Benzyl alcohol														nil→15.19.6
Calcium long-chain alkyl (C5-C10)phenate														nil→15.19.6
Calcium long-chain alkyl (C11-C40)phenate	Z→Y		3→2											nil→15.19.6
Calcium long-chain alkyl phenate sulphide (C8-C40)			P→S/P										AB→ABC	15.19.6, 16.2.6, 16.2.9 ↓ 15.19.6, 16.2.6
Castor oil (containing less than 2% free fatty acids) ↓ Castor oil			P→S/P										ABCD→ ABC	15.19.6, 16.2.6 ↓ 15.19.6, 16.2.6, 16.2.9

**Summary of Revised Minimum Requirements in Chapter 17 & 18;**

a	c	d	e	f	g	h	i			j	k	l	n	Special requirements
							i'	i''	i'''					
4-Chloro-2-methylphenoxyacetic acid, dimethylamine salt solution														16.2.9 ↓ 16.2.9 , 15.19.6
Coconut oil (containing less than 5% free fatty acids) ↓ Coconut oil		P→S/P										ABCD→ ABC		
Corn oil (containing less than 10% free fatty acids) ↓ Corn oil		P→S/P										ABCD→ ABC		15.19.6, 16.2.6 ↓ 15.19.6, 16.2.6, 16.2.9
Cotton seed oil (containing less than 12% free fatty acids) ↓ Cotton seed oil		P→S/P										ABCD→ ABC		
Cyclohexanone, Cyclohexanol mixture														nil→15.19.6
Diethylenetriamine														nil→15.19.6
Diethyl phthalate														nil→15.19.6
Dimethyl disulphide								T3→T2 →T3						
Dimethyl glutarate														nil→15.19.6
Dimethyl octanoic acid														16.2.6 , 16.2.9 ↓ 16.2.6 , 16.2.9 , 15.19.6
Dimethyl phthalate														16.2.9 ↓ 15.19.6 , 16.2.9
2,2-Dimethylpropane-1,3-diol (molten or solution)												AB→A→ AB		nil→16.2.9
Dodecyl/Octadecyl methacrylate (mixture) ↓ Dodecyl/Octadecyl methacrylate mixture	Z→Y	S/P→P →S/P							R→O			AD→A		15.13, 16.6.1, 16.6.2 ↓ 15.13 , 15.19.6 , 16.6.1~16.6.2 , 16.2.6

**Summary of Revised Minimum Requirements in Chapter 17 & 18;**

a	c	d	e	f	g	h	i			j	k	l	n	Special requiremetns
							i'	i''	i'''					
Epichlorohydrin														15.12, 15.17, 15.19 ↓ 15.12, 15.17, 15.19.6 ↓ 15.12, 15.17, 15.19
Ethoxylated long chain (C16+)alkyloxyalkylamine	Z→Y	P→S/P	3→2											15.19.6, 16.2.9→nil→15.19.6, 16.2.9
Ethylene cyanohydrin														nil→15.19.6
Ethylene glycol butyl ether acetate														nil→15.19.6
Ethylene glycol diacetate														nil→15.19.6
Fatty acids, 12+ ↓ Fatty acids, (C12+)														15.12.3, 15.12.4, 15.19.6, 16.2.6, 16.2.9 ↓ 15.12.3, 15.2.4, 15.19.6, 16.2.6, 16.2.9 ↓ 15.12.3, 15.12.4, 15.19.6, 16.2.6, 16.2.9
Fatty acids, C8-C10 ↓ Fatty acids (C8-C10)														
Fish oil (containing less than 4% free fatty acids) ↓ Fish oil		P→S/P											ABCD→ABC	
Furfuryl alcohol														nil→15.19.6
Groundnut oil (containing less than 4% free fatty acids) ↓ Groundnut oil													ABCD→ABC	
Glycerol monooleate	Z→Y	nil→P	nil→2	nil→2G	nil→Open	nil→No			nil→Yes	nil→O	nil→No	nil→A	nil→No	nil→15.19.6, 16.2.6, 16.2.9
1,6-Hexanediol, distillation overheads		S/P→P			Cont→Open					R→O	T→No	ABCD→A		
Isobutyl methacrylate		S/P→P							IIA→nil	C→R	FT→F	BD→A	Yes→No	15.12, 15.13, 15.17, 15.19, 16.6.1, 16.6.2 ↓ 15.12, 15.13, 15.17, 16.6.1, 16.6.2
Isophorone														nil→15.19.6

**Summary of Revised Minimum Requirements in Chapter 17 & 18;**

a	c	d	e	f	g	h	i			j	k	l	n	Special requirements
							i'	i''	i'''					
Lactonitrile solution (80% or less)														15.1, 15.12, 15.13, 15.17, 15.18, 15.19, 16.6.1, 16.6.2, 16.6.3 ↓ 15.12, 15.13, 15.17, 15.18, 15.19, 16.6.1, 16.6.2, 16.6.3
Lard(containing less than 1% free fatty acids) ↓ Lard		P→S/P										ABCD→ ABC		
Latex, ammonia (1% or less, inhibited) ↓														
Linseedoil (containingless than 2% free fatty acids) ↓ Linseed oil		P→S/P										ABCD→ ABC		15.19.6, 16.2.6 ↓ 15.19.6, 16.2.6, 16.2.9
Long-chain alkaryl polyether (C11-C20)														15.19.6,16.2.6,16.2.6 16.2.9 ↓ 15.19.6,16.2.6,16.2.9
Methacrylic resin in Ethylene dichloride ↓ Methacrylic resin in ethylene dichloride														
Methyl diethanolamine														16.2.6 ↓ 16.2.6, 15.19.6
2-Methyl-6-ethyl aniline														nil→15.19.6
3-(methylthio)propionaldehyde									Yes→No		T→F-T			
Neodecanoic acid														nil→15.19.6
Noxious liquid, F, (2)n.o.s. (trade name ....., contains .....).ST1,Cat.X											nil→F			
Noxious liquid,F,(4)n.o.s.(trade name ....., contains .....).ST2,Cat.X											nil→F			
Noxious liquid, F, (6)n.o.s.(trade name ....., contains .....).ST2,Cat.Y											nil→F			
Noxious liquid, F,(8)n.o.s.(trade name ....., contains .....).ST3,Cat.Y											nil→F			
Noxious liquid,F, (10)n.o.s.(trade name ....., contains .....).ST3,Cat.Z											nil→F			

**Summary of Revised Minimum Requirements in Chapter 17 & 18;**

a	c	d	e	f	g	h	i			j	k	l	n	Special requirements
							i'	i''	i'''					
Octanoic acid (all isomers)	Z→Y											AB→A		nil→15.19.6
Octyl aldehydes			2→3											
Olive oil (containing less than 3.3% free fatty acids) ↓ Olive oil		P→S/P										ABCD→ABC		
Palm kernel oil (containing less than 5% free fatty acids) ↓ Palm kernel oil		P→S/P					T3→nil	IIB→nil				ABCD→ABC		
Palm oil (containing less than 5% free fatty acids) ↓ Palm oil		P→S/P										ABCD→ABC		
Palm olein (containing less than 5% free fatty acids) ↓ Palm olein												ABCD→ABC		
Palmstearin olein (containing less than 5% free fatty acids) ↓ Palm stearin												ABCD→ABC		
1,3-Pentadiene		S/P→P												
Petrolatum	Z→Y		3→2									AB→A		16.2.6, 16.2.9 ↓ 15.19.6, 16.2.6, 16.2.9
Polyalkyl (C18-C22) acrylate in Xylene			3→2											
Polyferric sulphate solution														nil→15.19.6
Polyisobutenamine in aliphatic (C10-C14) solvent														nil→15.19.6
Polyolefinamine (C28-C250)														16.2.9 ↓ 15.19.6, 16.2.9
Polyolefin phosphorusulphide, barium derivative (C28-C250)														16.2.6, 16.2.9 ↓ 15.19.6, 16.2.6, 16.2.9
Polypropylene glycol		P→S/P			Open→Cont							A→ABC		nil→15.19.6

**Summary of Revised Minimum Requirements in Chapter 17 & 18;**

a	c	d	e	f	g	h	i			j	k	l	n	Special requirements
							i'	i''	i'''					
Potassium thiosulphate (50% or less)														16.2.9 ↓ 15.19.6 , 16.2.9
beta-Propiolactone														nil→15.19.6
Propionic anhydride														nil→15.19.6
n-propyl alcohol ↓ n-Propyl alcohol														
Pyridine		S→S/P	2→3											
Rapeseed oil (low erucic acid, containing less than 4% free fattyacids)		P→S/P									ABCD→ ABC			
Sodium chlorate solution (50% or less)														15.9, 15.19.6, 16.2.9 ↓ 15.19.6, 16.2.9 ↓ 15.9, 15.19.6, 16.2.9
Sodium hydroxide solution														16.2.6 , 16.2.9 ↓ 15.19.6, 16.2.6 , 16.2.9
Sodium hypochlorite solution (15% or less)									nil→NF					
Sodium silicate solution														16.2.9 ↓ 15.19.6 , 16.2.9
Soyabean (containingless than 0.5% free fatty acids) ↓ Soyabean oil		P→S/P									ABCD→ ABC			15.19.6, 16.2.6 ↓ 15.19.6, 16.2.6, 16.2.9
Sulphonated polyacrylate solution		P→nil	3→nil	2G→nil	Cont→nil	No→nil			No→nil	R→nil	F→nil	A→nil	No→nil	
Sunflower seedoil (containingless than 7% free fatty acids) ↓ Sunflower seed oil		P→S/P										ABCD→ ABC		15.19.6, 16.2.6 ↓ 15.19.6, 16.2.6, 16.2.9
Tallow (containingless than 15% free fatty acids) ↓ Tallow												ABCD→ ABC		
Tetraethylene pentamine														nil→15.19.6

**Summary of Revised Minimum Requirements in Chapter 17 & 18;**

a	c	d	e	f	g	h	i			j	k	l	n	Special requiremetns
							i'	i''	i'''					
Tetrahydronaphthalene														nil→15.19.6
Tetramethylbenzene (all isomers)														16.2.9 ↓ 15.19.6 , 16.2.9
1,1,1-Trichloroethane														nil→15.19.6
1,1,2-Trichloro-1,2,2-Trifluoroethane														nil→15.19.6
Tridecyl acetate	Z→Y											AB→A		nil→15.19.6
Triethylenetetramine														nil→15.19.6
Trimethylacetic acid			3→2											
2,2,4-Trimethyl-1,3-pentanediol-1-isobutyrate														nil→15.19.6
Tung oil (containing less than 2.5% free fatty acids) ↓ Turg oil		P→S/P										ABCD→ABC		
Urea/Ammonium nitrate solution (containing aqua ammonia) ↓ Urea/Ammonium nitrate solution (containing less than 1% free ammonia)														
Vegetable protein solution (hydrolysed)	Z→OS	P→nil	3→nil	2G→nil	Open→nil	No→nil			Yes→nil	O→nil	No→nil	A→nil	No→nil	
Vinyl ethyl ether														15.4, 15.13, 15.14, 15.19, 16.6.1, 16.6.2 ↓ 15.4, 15.13, 15.14, 15.19.6, 16.6.1, 16.6.2
Waxes	Z→Y		3→2											16.2.6, 16.2.9 ↓ 15.19.6, 16.2.6, 16.2.9
Xylenol			3→2											
Zinc alkaryl dithiophosphate (C7-C16)														16.2.6 , 16.2.9 ↓ 15.19.6, 16.2.6 , 16.2.9

## CHAPTER 17&18-SUMMARY OF MINIMUM REQUIREMENTS EXPLANATORY NOTES

Product name ( column a )	The product name shall be used in the shipping document for any cargo offered for bulk shipments. Any additional name may be included in brackets after the product name. In some cases, the product names are not identical with the names given in previous issues of the Code.	Electrical equipment ( column i )	Temperature classes (i) T1 to T6 - blank	indicates no requirements no information
Pollution Category ( column c )	The letter X,Y,Z means the pollution Category assigned to each product under MARPOL Annex II.		Apparatus group (ii) IIA,IIB or IIC: - blank	indicates no requirements no information
Hazards ( column d )	"S" means that the product is included in the Code because of its safety hazards; "P" means that the product is included in the Code because of its pollution hazards; and "S/P" means that the product is included in the Code because of both its safety and pollution hazards.	Gauging ( column j )	O: R: C:	open gauging (13.1.1.1) restricted gauging (13.1.1.2) closed gauging (13.1.1.3)
Ship type ( column e )	1: ship type 1 (2.1.2.1) 2: ship type 2 (2.1.2.2) 3: ship type 3 (2.1.2.3)	Vapor detection ( column k )	F: T: No:	flammable vapours toxic vapours indicates no special requirements under this Code
Tank type ( column f )	1: independent tank (4.1.1) 2: integral tank (4.1.2) G: gravity tank (4.1.3) P: pressure tank (4.1.4)	Fire protection ( column l )	A: B: C: D: No:	alcohol-resistant foam or multi-purpose foam regular foam; encompasses all foams that are not of an alcohol-resistant type, including fluoro-protein and aqueous-film-forming foam (AFFF) water-spray dry chemical no special requirements under this Code
Tank vents ( column g )	Cont: controlled venting Open: open venting		Note by the Secretariat	References to columns (a) though (m) in other chapters of the Code will be amended according to the column designations shown here.
Tank environmental control ( column h )	Inert: inerting(9.1.2.1) Pad: liquid or gas padding(9.1.2.2) Dry: drying(9.1.2.3) Vent: natural or forced ventilation(9.1.2.4) No: no special requirements under this Code			



NIPPON KAIJI KYOKAI HULL DEPARTMENT

4-7, Kioi-cho, Chiyoda-ku, Tokyo 102-8567, JAPAN

TEL : +81-3-5226-2017 FAX : +81-3-5226-2019

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

Total Page(s): Three(3)

xxth November 2008

Our Ref: 08HTXXXX

**XXXX shipping**

Mr. XXXXXXXXX

X-X, Kioicho, Chiyoda-ku, Tokyo

102-XXXX, Japan

(TEL: +81 3 5226 XXXX)

Review report related to issuance of certificate under amendments  
MSC219(82) / MEPC166(56) to IBC/BCH Code

Dear Sirs,

As informed recently, through our technical information TEC-0753 issued on 23<sup>rd</sup> October 2008, the revision of IBC code, BCH code and MARPOL Annex II (MSC219(82)/MEPC166(56)) will come to effect from 1<sup>st</sup> January 2009.

We hereby inform you the result of our review, whether re-issuance of COF(Certificate of Fitness for the Carriage of Dangerous Chemicals in Bulk) is necessary by 1<sup>st</sup> January 2009 or not for ships managed by your company, as attached.

Please kindly review the result at your earliest convenience and follow each instruction. Although we have summarized the lists with care, please kindly inform us if some ships from your esteemed fleet are missing in the lists.

If you have any inquiries on this matter, please feel free to contact our department directly. Thank you very much in advance for your kind understanding and cooperation.

Yours faithfully,

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H.Suga

Manager, Hull Department

Attachment:

- List of ships, COF should be re-issued by 1<sup>st</sup> January 2009 (1sheet)
- List of ships, COF will remain valid beyond 1<sup>st</sup> January 2009 till its expiry date (1sheet)

XXth November 2008

Our Ref: 08HTXXXX

Attachment 1

**List of ships, COF should be re-issued by 1<sup>st</sup> January 2009**

Ships, listed in the below table, are required to have revised COF onboard by 1<sup>st</sup> January 2009. Please kindly send your application to ClassNK Hull Department for issuance of revised COF. Application form is available in ClassNK Technical Information TEC-0753.

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

-----End of attachment 1-----

XXth November 2008

Our Ref: 08HTXXXX

Attachment 2

**List of ships, COF will remain valid beyond 1<sup>st</sup> January 2009  
till its expiry date**

To whom it may concern,

We confirm that the COF (Certificate of Fitness for the Carriage of Dangerous Chemicals in Bulk) of ships listed in below will remain valid beyond 1<sup>st</sup> January 2009.

Although the revision of IBC code, BCH code and MARPOL 73/78 Annex II (MSC219(82)/MEPC166(56)) will come to effect from 1<sup>st</sup> January 2009, it will not affect current cargo lists attached to COF of below ships. New revision number will be reflected in the COF at the next issuance of the COF.

A copy of this letter should be kept onboard each ship for providing clarification to any concerned parties.

	Name of Ship	Class Number	IMO Number	Flag State
1				
2				
3				
4				
5				
6				

Yours faithfully,

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H.Suga  
Manager, Hull Department

