

Subject

Bulk Carrier Safety

ClassNK

Technical Information

No. TEC-0507

Date 10 March 2003

To whom it may concern

Last year, on 15 March 2002, IACS (International Association of Classification Societies) announced new initiatives aimed at improving the safety of bulk carriers. (Please refer to ClassNK Technical Information No. TEC-0451)

Also, at the seventy-sixth session of the Maritime Safety Committee of the IMO (MSC76) held from 2 December to 13 December 2002, amendments to the SOLAS convention, i.e. the requirement for the installation of water ingress alarms, remote pumping systems, means of access, etc., were adopted. (Please refer to ClassNK Technical Information No. TEC-0498)

These new measures adopted by IACS and the amendments to the SOLAS convention are now in the process of being incorporated into ClassNK rules. Please find attached table which summarises these measures, for your reference.

For any questions about these matters, please contact:

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Attachment: Table - Bulk Carrier Safety Measures

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Attachment

Table - Bulk Carrier Safety Measures (IACS' 8 initiatives & Outcomes of IMO MSC76)

No. 1-8 IACS : 8 initiatives (ClassNK Technical Information No. TEC-0451)
 No. 9-11 IMO : Amendments to SOLAS/LL (ClassNK Technical Information No. TEC-0498)
 No. 12 IACS : Outcome of SC/BCS (Steering Committee / Bulk Carrier Safety)

(IACS)

(X: application, NA: withdrawal, -: not applicable, [X]: in progress)

No.	Measures	Content	New Ships	Existing Ships	Application timetable
1	Earlier implementation of SOLAS Chapter XII requirements	This brings forward the reinforcement of the corrugated transverse bulkhead between No.1/2 holds and the double bottom of No. 1 hold.	-	X	From 1 July 2003
2	Amendment of the Enhanced Survey Programme (ESP) requirements for close-up surveys in the 10-15 years age range	This increases requirements for close-up surveys at SS No.2 and also requires subsequent IS to apply the full scope of SS No.2.	-	X	SS or IS after 1 January 2003
3	Installation of water ingress alarms in all cargo holds	The objective is to require the installation of water ingress/level detection and alarm systems in all cargo holds.	NA	Follow the requirements of the SOLAS amendment (see item 9)	See item 9
4	More protection for forward hatches and fore deck fittings, by the means of an improved bulwark or breakwater on existing vessels and a forecastle on new vessels	Installation of a forecastle on new vessels Installation of an improved bulwark or breakwater on existing bulk carriers when not fitted with a forecastle	[X]	(Under consideration taking into account amendment of the LL convention) -	[Ships contracted for construction on or after 1 January 2004] -

5	Requirements to increase the integrity of fore-deck fittings, to resist green water loading	(UR S27) Improving the requirements for the strength of air-pipes, ventilators (UR S26) Improving the requirements for the strength of and securing of small hatches	X	(UR S27)(UR S26) L>=80m, all ships Equipment on the exposed deck over the forward 0.25L (These URs will be applicable not only to bulk carriers but also to all types of ship other than bulk carriers)	X	(UR S27)(UR S26) L>=100m, Bulk carriers, General cargo (except Container carriers, RoRo vessels & Chip carriers), OBO Equipment on the exposed deck providing access to spaces forward of collision bulkhead (These URs will be applicable not only to bulk carriers but also the types of ship mentioned above.)	(New Ships) Ships contracted for construction on or after 1 January 2004 → by the time of delivery (Existing Ships) Ships contracted for construction prior to 1 January 2004 Age>=15 on 1 January 2004 → by 1st IS or SS after 1 January 2004 Age>=10 on 1 January 2004 → by 1st SS after 1 January 2004 Age<10 on 1 January 2004 → by reaching 10 years of age after 1 January 2004
6	Strengthening of Hatch covers & Hatch coaming Strengthening of Hatch covers within the forward 0.25 L of existing vessels. Revision of S21(rev.1) for new vessels Improving of Cargo Hatch cover securing arrangements	Improving the requirements for securing of windlass mounts	X [X]	(UR S27) Application is same to above. (Under consideration taking into account damage conditions and the amendments to LL convention in item 10)	- NA	- withdrawal (UR S30)	(New Ships) Ships contracted for construction on or after 1 January 2004 → by the time of delivery (New Ship) Ships contracted for construction on or after 1 January 2004 → by the time of delivery (New Ships) Ships contracted for construction on or after 1 January 2004 → by the time of delivery (Existing Ships) Ships contracted for construction prior to 1 January 2004 Age>=15 on 1 January 2004 → by 1st IS or SS after 1 January 2004 Age>=10 on 1 January 2004 → by 1st SS after 1 January 2004 Age<10 on 1 January 2004 → by reaching 10 years of age after 1 January 2004

7	Strengthening of frames	hold	Implementation of requirements for the strength of side shell frames of existing vessels taking into consideration IACS UR S12 (which is applicable only for side frames of new bulk carriers). Revision of S12(rev.3) for new vessels	[X]	(Under consideration)	X	(UR S31) Hold frames are required to be re-assessed for strength taking into account the results of thickness measurements. Calculation data for the assessment will be prepared by ClassNK and advised by the end of June.	(New Ships) Ships contracted for construction on or after 1 January 2004 → by the time of delivery (Existing Ships) Ships contracted for construction prior to 1 January 2004 Age≥15 on 1 January 2004 → by 1st IS or SS after 1 January 2004 Age≥10 on 1 January 2004 → by 1st SS after 1 January 2004 Age<10 on 1 January 2004 → by reaching 10 years of age after 1 January 2004 see item 9
8	Fitting of water ingress alarms for spaces forward of the cargo area.		The objective is to require the installation of water ingress detection and alarm systems.	NA	Follow the requirements of the SOLAS amendment (see item 9)	NA	Follow the requirements of the SOLAS amendment (see item 9)	

(IMO)

No.	Measures	Content	New Ship (SOLAS XII/12)	Existing Ship (SOLAS XII/12)	Application scheme
9	Installation of Water ingress alarms for cargo holds, forward spaces & ballast tanks	Amendments to SOLAS regulation XII/12, 13 have been adopted and the following equipment will be required to be installed. 1) Water ingress alarms in each cargo hold 2) Water ingress alarms in any ballast tank forward of the collision bulkhead 3) Water ingress alarms in any dry or void space which extends forward of the fore most cargo hold	X	X	(New Ships) Ships constructed on or after 1 July 2004 →by the time of delivery (Existing Ships) Ships constructed prior to 1 July 2004 items 1) to 3) →by first AS, IS or SS after 1 July 2004 item 4) →by first IS or SS after 1 July 2004 see TEC-0498
10	Installation of remote pumping systems for forward dry spaces & ballast tanks	4) Pumping system in ballast tanks & dry spaces which are located forward of the collision bulkhead	X	X	(SOLAS XII/13) (SOLAS XII/13)
10	Amendment to the International Load Line Convention	For example, 1) Revision of Hatch cover design loads 2) Keeping the forward reserve buoyancy within 0.15L, etc.	X	-	(New Ships) [Ships constructed on or after 1 January 2005]
11	Means of access for tankers and for bulk carriers	Means of access for maintenance & inspection should be provided in the cargo holds, cargo tanks or ballast tanks.	X	-	(New Ships) Ships constructed on or after 1 January 2005

(IACS)

12	Harmonized Notations and corresponding Design Loading Condition	Unified requirements for harmonised notation of bulk carriers and harmonised design loading conditions have been established.	X	-	(New Ships) Ships contracted for construction on or after 1 July 2003
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IACS UR (URs can be obtained from the IACS website. / www.iacs.org.uk)

UR S25(rev.1) Harmonized Notations and Corresponding Design Loading Conditions for Bulk Carrier

UR S26 Strength and securing of small hatches on the exposed fore deck

UR S27 Strength requirements for fore deck fittings and equipment

UR S30 Cargo Hatch cover Securing arrangements for Bulk Carriers not built in accordance with UR S21(rev.2)

UR S31 Renewal criteria for side shell frames in single side skin Bulk Carriers not built in accordance with UR S12rev.1 or subsequent revisions

(Reference) Mandatory instruments (including other types of vessels)

For further details, please refer to the respective Technical Information listed in 'Remarks' or contact the department therein.

Measures	Content	Remarks
Maritime Security (SOLAS V,XI-1,XI-2)	(SOLAS XI-2) Ship Security Plan to be placed onboard. Ship Security Alert system to be provided.	TEC-0497 TEC-0504 TEC-0505
	Ship's identification number to be marked on ship's hull (SOLAS XI-1/3) Continuous Synopsis Record to be provided onboard. (SOLAS XI-1/5) Change of timetable for fitting of AIS. (SOLAS V/19)	International Ship Security Certificate to be kept on board on or after 1 July 2004. (Please contact 'Safety Management Systems Department'.)
Prevention of pollution by sewage from ships (MARPOL ANNEX IV)	ANNEX IV will come into effect on 27 September 2003.	TEC-0494
Machinery controls (SOLAS II-1/31)	A requirement for the navigation watch officer to intervene, against the automatic system in case of impending or imminent slowdown or shutdown of the propulsion system has been introduced as a new regulation.	TEC-0498
IAMSAR manual (SOLAS V/21)	Volume III of the International Aeronautical and Maritime Search and Rescue (IAMSAR) Manual to be placed onboard.	TEC-0468 Manual should be placed onboard on or after 1 January 2004.

ClassNK Technical Information (Information can be obtained from ClassNK website; / www.classnk.or.jp)

TEC-0451 Eight measures taken by IACS for improving Bulk carrier safety

TEC-0468 Introduction of the outcomes of MSC75

TEC-0494 Introduction of the outcomes of MEPC 48

TEC-0497 Amendment to the SOLAS convention relating to Maritime Security (Part1, preliminary notice)

TEC-0498 Introduction of the outcomes of MSC 76

TEC-0504 Amendment to the SOLAS convention relating to Maritime Security (Part2)

TEC-0505 Amendment to the SOLAS convention relating to Maritime Security (Part3)(Ship identification number required by SOLAS Regulation XI-2/3 as amended)