



Maritime Knowledge Centre

INFORMATION RESOURCES ON BULK CARRIER SAFETY

(Last Updated: 26 March 2010)

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This information resources document is offered by the Maritime Knowledge Centre specifically to assist those who are conducting research in the area of "Bulk Carrier Safety.". All users of this document should be aware that the information presented in this document has been compiled from a limited variety of sources, which cannot be guaranteed to reflect the most-up-to-date examination or complete survey of the subject concerned or of the associated issues and possible points of view. You may wish to refer to the Internet major search engines for further research.

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Finally, users who have questions regarding the interpretation and/or implementation of IMO instruments should direct such questions to their National Maritime Administration.

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See also:

MKC Online catalogue **SeaLibrary**

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Links to other Relevant Information Resources Documents: : Information Resources on "Double/Single Hull Ship Design and related issues"

IMO MATERIAL ON THE WEBSITE

SeaLibrary Online. Maritime Knowledge Centre Catalogues Online.

http://www.imo.org/InfoResource/mainframe.asp?topic_id=827

Bulk carrier safety. http://www.imo.org/Safety/mainframe.asp?topic_id=349

Survey and certification: Guidelines on the enhanced programme of inspections during surveys of bulk carriers and oil tankers (IMO Resolution A.744(18), as amended): An overview. Paper by Dr. Heike Hoppe, Technical Officer, January 2002. http://www.imo.org/includes/blastDataOnly.asp/data_id=4267/HeikeA744.pdf

Focus on IMO

IMO and the safety of bulk carriers. *In:* Focus on IMO, September 1999. http://www.imo.org/includes/blastData.asp/doc_id=425/BULK99.FIN.pdf

IMO News Magazine

Notices:

- 1. For a list of articles in the IMO News Magazines on this subject, please refer to the IMO website http://www.imo.org/Newsroom/mainframe.asp?topic_id=11
- 2. The IRDs changed the contents in 2008 therefore if you wish to receive an archive copy where you can find a full list of articles in the IMO News Magazine on the subject with links to the IMO Website, please contact maritimeknowledgecentre@imo.org (Please note that the IRDs were last updated in November/December 2007)

Press Briefings

Notices:

- 1. For a list of Press Briefings on this subject, please refer to the IMO website http://www.imo.org/Newsroom/mainframe.asp?topic_id=5
- 2. The IRDs changed the contents in 2008 therefore if you wish to receive an archive copy where you can find a full list of Press Briefings on the subject with links to the IMO Website ,please contact maritimeknowledgecentre@imo.org (Please note that the IRDs were last updated in November/December 2007)

IMO DOCUMENTS

Notices:

- 1. Please note that only Resolutions, Circulars, Circular Letters, Conferences and Final Reports of the meeting sessions are listed below. For a list of IMO Documents on this subject please contact maritimeknowledgecentre@imo.org
- 2. The IRDs changed the contents in 2008 therefore if you wish to receive an archive copy where you can find a full list of IMO Documents on the subject, please contact maritimeknowledgecentre@imo.org (Please note that the IRDs were last updated in November/December 2007)

Resolutions

A.184(VI)	Adoption of grain regulations as an equivalent to chapter VI of the International Convention for the Safety of Life at sea, 1960. 1969.
A.713(17)	Safety of ships carrying solid bulk cargoes. 1991.
A. 744(18)	Guidelines on the enhanced programme of inspections during surveys of bulk carriers and oil Tankers. 1993
A.797(19)	Safety of ships carrying solid bulk cargoes. 1995.
A.798(19)	Guidelines for the selection, application and maintenance of corrosion prevention systems of dedicated seawater ballast tanks. 1995.
A.862(20)	Code of practice for the safe loading and unloading of bulk carriers 1997
A.886(20)	Guidance to ships' crews and terminal personnel for bulk carrier inspections 1997
MSC.49(66)	Adoption of amendments to the guidelines on the enhanced programme of inspections during surveys of bulk carriers and oil tankers (Resolution A.744(18)
MSC.105(73)	Adoption of amendments to the guidelines on the enhanced programme of inspections during surveys of bulk carriers and oil tankers (Resolution A.744(18), as amended)
MSC.125(75)	Adoption of amendments to the guidelines on the enhanced programme of inspections during surveys of bulk carriers and oil tankers (Resolution A.744(18), as amended)
MSC.144(77)	Adoption of amendments to the guidelines on the enhanced programme of inspections during surveys of bulk carriers and oil tankers (Resolution A.744(18), as amended)
MSC.145(77)	Performance standards for water level detectors on bulk carriers
MSC.146(77)	Application of IACS unified requirements S26, S27, and S31 to bulk carriers
MSC.197(80)	Adoption of amendments to the guidelines on the enhanced programme of inspections during surveys of bulk carriers and oil tankers (Resolution A.744(18), as amended)
MSC.215(82)	Performance standard for protective coatings for dedicated seawater ballast tanks in all types of ships and double-skin spaces of bulk carriers
MSC 261(84)	Adoption of amendments to the guidelines on the enhanced programme of inspections during surveys of bulk carriers and oil tankers (Resolution A.744(18), as amended)
MSC 268(85)	Adoption of the International Maritime Solid Bulk Cargoes (IMSBC) Code.

Circulars

BC	
BC/Circ.57	Contact names and addresses of the offices of designated national competent authorities
12/12/00	responsible for the safe carriage of grain and solid cargoes

MSC MSC/Circ.531 12/06/90	Instability of ships resulting from shifting or liquefaction of bulk cargo.
MSC/Circ.611 18/06/93	Questionnaire on the condition of ships carrying solid bulk cargoes.
MSC/Circ.628 17/06/93	Guidelines on the enhanced programme of surveys for bulk carriers
MSC/Circ.646 opera	Recommendations for the fitting of hull stress monitoring systems for improving the safe 06/06/94 ation of ships carrying dry cargo in bulk.
MSC/Circ.655 06/06/94	Guidance for planning the enhanced programme of inspections during surveys of bulk carriers and oil tankers.
MSC/Circ.665 22/12/94	Duties of chief mate and officer of the watch (OOW) at loading and discharging ports. Containers and cargoes: loading and unloading of bulk cargoes
MSC/Circ.666 22/12/94	Cargo operation form. Containers and cargoes: loading and unloading of bulk cargoes.
MSC/Circ.667 22/12/94	Safe practice on board bulk carriers.
MSC/Circ.686 02/06/95	Guidelines on the means of access to structures for inspection and maintenance of oil tanker and bulk carriers.
MSC/Circ.690 01/06/95	Ship/shore safety checklist for loading or unloading dry bulk cargo carriers.
MSC/Circ.742 14/06/96	Amendments to the Code of safe practice for solid bulk cargoes (BC Code).
MSC/Circ.815 13/11/1998	List of IMO safety-related requirements and recommendations applicable to all ships and certain types of ships http://www.imo.org/Circulars/mainframe.asp?topic_id=333
MSC/Circ.908 04/06/99	Uniform method of measurement of the density of bulk cargoes http://www.imo.org/includes/blastData.asp/doc_id=827/908.PDF
MSC.Circ.921 04/06/99	Amendments to the Code of Safe Practice for solid Bulk Cargoes (BC Code) http://www.imo.org/includes/blastData.asp/doc_id=842/921.PDF
MSC/Circ.947 & FAL/Circ.91 01/06/00	Safe loading and unloading of bulk carriers http://www.imo.org/includes/blastData.asp/doc_id=844/947.pdf
MSC/Circ.962 01/06/00	Amendments to the Code of Safe Practice for solid bulk cargoes (BC Code) http://www.imo.org/includes/blastData.asp/doc_id=865/962.pdf
MSC/Circ.1013 23/07/01	Interim application of paragraph 4.6.1.1, 4.6.2.2 and 15.7 of the survey guidelines under the harmonized system of survey and certification (Resolution A.746(18))

MSC/Circ.1051 19/07/02	Interim application of paragraphs 4.6.1.1, 4.6.2.2 and 15.7 of the survey guidelines under the harmonized system of survey and certification (Resolution A746(18)) http://www.imo.org/includes/blastData.asp/doc_id=2294/1051.pdf
MSC/Circ.1071 13/06/2003	Guidelines for bulk carrier hatch cover surveys and owner's inspections and maintenance http://www.imo.org/includes/blastData.asp/doc_id=2972/1071.pdf
MSC/Circ.1084 13/06/2003	Principles for hot work on board all types of ships http://www.imo.org/includes/blastData.asp/doc_id=2985/1084.pdf
MSC/Circ.1095 18/06/2003	Revised minimum safety standards for ships carrying liquids in bulk containing benzene http://www.imo.org/includes/blastData.asp/doc_id=3014/1095.pdf
MSC/Circ.1100 & MEPC/Circ.407 27/08/2003	Recommendation for the use of a standard format for the cargo information required by chapter 16 of the IBC Code http://www.imo.org/includes/blastData.asp/doc_id=3188/1100.pdf
MSC/Circ.1107 25/05/2004	Application of Solas regulation II-1/3-6 on access to and within spaces in, and forward of, the cargo area of oil tankers and bulk carriers and application of the technical provisions for means of access for inspections http://www.imo.org/includes/blastData.asp/doc_id=3685/1107.pdf
MSC/Circ.1108 25/05/2004	Guidelines for assessing the longitudinal strength of bulk carriers during loading, unloading and ballast water exchange http://www.imo.org/includes/blastData.asp/doc_id=3681/1109.pdf
MSC/Circ.1117 24/06/2004	Guidance for checking the structure of bulk carriers http://www.imo.org/includes/blastData.asp/doc_id=3727/1117.pdf
MSC/Circ.1119 10/06/2004	Ship/terminal interface improvement for bulk carriers http://www.imo.org/includes/blastData.asp/doc_id=3728/1119.pdf
MSC/Circ.1143 13/12/2004	Guidelines on early assessment of hull damage and possible need for abandonment of bulk carriers http://www.imo.org/includes/blastData.asp/doc_id=4581/1143.pdf
MSC/Circ.1146 15/12/2004	Lists of solid bulk cargoes for which a fixed gas fire-extinguishing system may be exempted or for which a fixed gas fire-extinguishing system is ineffective http://www.imo.org/includes/blastData.asp/doc_id=4752/1146.pdf
MSC/Circ.1159 24/05/2005	Guidelines on the provision of stability-related information for bulk carriers http://www.imo.org/includes/blastData.asp/doc_id=5141/1159.pdf
MSC/Circ.1160 16/05/2005	Manual on loading and unloading of solid bulk cargoes for terminal representatives http://www.imo.org/includes/blastData.asp/doc_id=5144/1160.pdf

Sub-Committee on Ship Design and Equipment

44th Session (5 – 9 March 2001)
Summary Reports: http://www.imo.org/Newsroom/mainframe.asp?topic_id=107&doc_id=340

DE 44/19 Report to the Maritime Safety Committee. (Annex 9 – Draft amendments to the guidelines on

the enhanced programme of inspections during surveys of bulk carriers and oil tankers

(Resolution A.744(18) as amended)

45th Session (18 – 22 March 2002)

Summary Reports: http://www.imo.org/Newsroom/mainframe.asp?topic_id=107&doc_id=2045

DE 45/27

Report to the Maritime Safety Committee (Section 14 – Matters related to bulk carriers; Annex 9 – Draft MSC Resolution on adoption of amendments to the guidelines on the enhanced programme of inspections during surveys of bulk carriers and oil tankers (Resolution A.744(18), as amended)

46th Session (10 – 19 March 2003)

Summary Reports: http://www.imo.org/Newsroom/mainframe.asp?topic_id=107&doc_id=2676

DE 46/32

Report to the Maritime Safety Committee. (Section 18 – Performance standards for water ingress alarms on bulk carriers; Section 19 – Guidance on early abandonment of bulk carriers; Section 20 – Application of IACS URs S26, S27 and S31 to bulk carriers; Section 22 – Standards for hatch cover securing mechanisms on bulk carriers, Section 23 – Alternate hold loading ban for bulk carriers; Section 24 – Double side skin construction of bulk carriers; Section 25 – Application of structural standards in SOLAS Chapter XII; Section 26 – Improved loadings/stability information for bulk carriers; Annex 17 – Draft MSC Resolution on performance standards for water level detectors on bulk carriers; Annex 19 – Draft MSC Circular on guidelines on early assessment of hull damage and possible need for abandonment of bulk carriers; Annex 20 – Draft MSC Resolution on application of IACS unified requirements S26, S27 and S31 to bulk carriers; Annex 22 – Draft MSC Circular on guidelines for bulk carrier hatch cover surveys and owner's inspections and maintenance; Annex 23 – preliminary draft amendments to SOLAS Chapter XII))

47th Session (25 February – 5 March 2004)

Summary Reports: http://www.imo.org/Newsroom/mainframe.asp?topic_id=107&doc_id=3350

DE 47/25

Report to the Maritime Safety Committee (Sections 14 – Alternate hold loading ban for bulk carriers; Section 15 – Double-side-skin construction of bulk carriers; Section 17 – Improved loading/stability information for bulk carriers, Annex 1 – Proposed amendments to the guidelines on the enhanced programme of inspections during surveys of bulk carriers and oil tankers (Resolution A.744.(18), as amended), Annex 14 – Draft MSC Resolution on performance standards for water level detectors on bulk carriers and single hold cargo ships other than bulk carriers, Annex 18 – Draft MSC Resolution on standards and criteria for side structures of bulk carriers of single-side skin construction, Annex 19 – Draft MSC Resolution on standards for owners' inspections and maintenance of bulk carrier hatch covers, Annex 20 – Draft MSC Circular on guidelines for assessing the longitudinal strength of bulk carriers during loading, unloading and ballast water exchange, Annex 23 – Draft amendments to Solas regulation II-1/3-6 on access to and within spaces in the cargo area of oil tankers and bulk carriers)

<u>48th Session</u> (21-25 February 2005)

Summary Reports: http://www.imo.org/Newsroom/mainframe.asp?topic_id=107&doc_id=3721

DE 48/25 Report to the Maritime Safety Committee

49th **Session** (20 – 24 February 2006)

Summary Reports: http://www.imo.org/Newsroom/mainframe.asp?topic_id=107&doc_id=6173

DE 49/20 Report to the Maritime Safety Committee. (Annex 15 – Draft MSC Resolution on performance

standard for protective coastings for dedicated seawater ballast tanks on all new ships and double-side skin spaces of bulk carriers; Annex 16 – Draf MSC Circular on application of SOLAS regulation XII/6.3 on corrosion prevention of double-side skin spaces and dedicated seawater ballast tanks of bulk carriers and application of the performance standard for protective coatings for dedicated seawater ballast tanks on all new ships and double-side skin spaces of bulk carriers)

50th Session (5 – 9 March 2007)

Summary Reports: http://www.imo.org/Newsroom/mainframe.asp?topic_id=107&doc_id=7524

DE 50/27

Report to the Maritime Safety Committee. (Section 3 – Amendments to Resolution A.744(18); Annex 1 – Draft amendments to the guidelines on the enhanced programme of inspections during surveys of bulk carriers and oil pollution (Resolution A.744(18), as amended); Annex 3 – Draft MSC resolution on performance standard for protective coatings for void spaces on bulk carriers and oil tankers

Sub-Committee on Dangerous Goods, Solid Cargoes and Containers

8th Session (22 – 26 September 2003)

Summary Reports: http://www.imo.org/Newsroom/mainframe.asp?topic_id=113&doc_id=2800

DSC 8/15

Report to the Maritime Safety Committee (Section 10 – Ship/terminal interface improvement for bulk carriers; Section 11 – Alternative hold loading ban for bulk carriers; Annex 3 – Draft MSC Circular ship/terminal interface improvement for bulk carriers)

Maritime Safety Committee

Please note that listed below are sessions from the year 2000 onwards only.

72nd Session (17 – 26 May 2000)

Summary Reports: http://www.imo.org/Newsroom/mainframe.asp?topic_id=110&doc_id=349

MSC 72/23

Report of the Maritime Safety Committee on its 72nd Session (Section 4 – Bulk carrier safety; Annex 21 – Draft amendments to Annex B to Resolution A.744(18) on guidelines on the enhanced programme of inspections during surveys of bulk carriers and oil tankers)

73rd Session (27 November – 6 December 2000)

Summary Reports: http://www.imo.org/Newsroom/mainframe.asp?topic_id=110&doc_id=350

MSC 73/31

Report of the Maritime Safety Committee on its 73^{rd} Session. (Section 5 – Bulk carrier safety; Annex 13 – Resolution MSC.105(73) – Adoption of amendments to the guidelines on the enhanced programme of inspections during surveys of bulk carriers and oil tankers (Resolution A.744(18) as amended)))

74th Session (30 May – 8 June 2001)

Summary Reports: http://www.imo.org/Newsroom/mainframe.asp?topic_id=110&doc_id=1151

MSC 74/24

Report of the Maritime Safety Committee on its 74th session. (Section 5 – Bulk carrier safety; Annex 17 – Draft amendments to the guidelines on the enhanced programme of inspections during surveys of bulk carriers and oil tankers (Resolution A.744(18)))

75th Session (15 – 24 May 2002)

Summary Reports: http://www.imo.org/Newsroom/mainframe.asp?topic_id=110&doc_id=2161

MSC 75/24

Report of the Maritime Safety Committee on its 75th Session (Section 5 – Bulk carrier safety; Annex 4 – Resolution MSC.125(75) – Adoption of amendments to the Guidelines on the enhanced programme of inspections during surveys of bulk carriers and oil tankers (Resolution A.744(18) as amended))

76th Session (2 – 13 December 2003)

Summary Reports: http://www.imo.org/Newsroom/mainframe.asp?topic_id=110&doc_id=2325

MSC 76/23

Report to the Maritime Safety Committee on its 76th Session (Section 5 - Bulk carrier safety, Annex 7 – Draft MSC Resolution – Adoption of amendments to the guidelines on the enhanced programme of inspections during surveys of bulk carriers and oil tankers (Resolution A.744(18), as amended)

77th Session (28 May – 6 June 2003)

Summary Reports: http://www.imo.org/Newsroom/mainframe.asp?topic_id=110&doc_id=2795

MSC 77/26

Report of the Maritime Safety Committee on its 77th Session. (Section 5 – Bulk carrier safety; Annex 4 – Resolution MSC.144(77) – Adoption of amendments to the guidelines on the enhanced programme of inspections during surveys of bulk carriers and oil tankers (Resolution A.744(18), as amended); Annex 5 – Resolution MSC.145(77) – Performance standards for water level detectors on bulk carriers; Annex 6 – Resolution MSC.146(77) – Application of IACS Unified Requirements S26, S27, S30 and S31 to bulk carriers)

78th Session (12 – 21 May 2004)

Summary Reports: http://www.imo.org/Newsroom/mainframe.asp?topic_id=110&doc_id=3097

MSC 78/26

Report of the Maritime Safety Committee on its 78th Session (Section 5 – Bulk carrier safety; Annex 11 – Draft MSC Resolution on standards and criteria for side structures of bulk carriers of single-side skin construction; Annex 12 – Draft MSC Resolution on standards for owners' inspection and maintenance of bulk carrier hatch covers; Annex 15 – Draft amendments to the International Code for the Construction and equipment of ships carrying liquefied gases in bulk (IGC Code); Annex 16 – Draft amendments to the International Code for the Construction and equipment of ships carrying dangerous chemicals in bulk (IBC Code)

79^{th} Session (1-10 December 2004)

Summary Reports: http://www.imo.org/Newsroom/mainframe.asp?topic id=110&doc id=3665

MSC 79/23

Report of the Maritime Safety Committee on its 79th Session (Annex 1 – Resolution MSC.168(79) – Standards and criteria for side structures of bulk carriers of single-side skin construction; Annex 2 - Resolution MSC 169(79) – Standards for owners' inspection and maintenance of bulk carrier hatch covers; Annex 22 – Draft amendments to the guidelines on the enhanced programme of inspections during surveys of bulk carriers and oil tankers (Resolution A.744(18) as amended; Annex 26 – Performance standards for water level detectors on bulk carriers and single hold cargo ships other than bulk carriers

80th Session (11 - 20 May 2005)

Summary Reports: http://www.imo.org/Newsroom/mainframe.asp?topic_id=110&doc_id=4834

MSC 80/24 Report of the Maritime Safety Committee on is 80th Session. (Annex 4 – Resolution

MSC.197(80) – Adoption of amendments to the guidelines on the enhanced programme of inspections during surveys of bulk carriers and oil tankers (Resolution A.744(18), as

amended)

81st **Session** (10 – 19 May 2006)

Summary Reports: http://www.imo.org/Newsroom/mainframe.asp?topic_id=110&doc_id=6208

MSC 81/25 Report of the Maritime Safety Committee on its 81st Session (Annex 21 : Draft MSC

Resolution on performance standard for protective coatings on dedicated seawater ballast

tanks in all new ships and double-side skin spaces of bulk carriers)

82nd Session (29 November 8 December 2006)

Summary Reports: http://www.imo.org/Newsroom/mainframe.asp?topic_id=110&doc_id=6677

MSC 82/24 Report of the Maritime Safety Committee on its 82nd Session (Annex 1 – Resolution

MSC.215(82) – Performance standard for protective coatings for dedicated seawater

ballast tanks in all types of ships and double-side skin spaces of bulk carriers)

83rd Session (3 – 12 October 2007)

Summary Reports: http://www.imo.org/Newsroom/mainframe.asp?topic_id=110&doc_id=7542

MSC 83/28 Report of the Maritime Safety Committee on its 83rd Session

84th **Session** (7 – 16 May 2008)

Summary Reports: http://www.imo.org/Newsroom/mainframe.asp?topic_id=110&doc_id=8872

MSC 84/24 Report of the Maritime Safety Committee on its 84th Session (Annex 7 – resolution

MSC.261(84) – Adoption of amendments to the guidelines on the enhanced programme of inspections during surveys of bulk carriers and oil tankers (Resolution A.744(18), as amended); Annex 12 – Draft MSC Resolution on adoption of the International Maritime

Solid Bulk Cargoes (IMSBC) Code

85th Session (26 November – 5 December 2008)

Summary Reports: http://www.imo.org/Newsroom/mainframe.asp?topic_id=110&doc_id=10351

MSC 85/26 Report of the Maritime Safety Committee on its 85th Session (Annex 4 – Draft MSC

Resolution on adoption of the International goal-based ship construction standards for bulk carriers and oil tankers; Annex 5 – Draft MSC Resolution on adoption of the guidelines for verification of conformity with goal-based ship construction standards for bulk carriers and

oil tankers)

86th Session (27 May – 5 June 2009)

Summary Reports: http://www.imo.org/Newsroom/mainframe.asp?topic_id=110&doc_id=10620

MSC 86/26 Report of the Maritime Safety Committee on its 86th Session (Annex 4 – Draft MSC

Resolution on adoption of the International goal-based ship construction standards for bulk carriers and oil tankers; Annex 5 – Draft MSC Resolution on adoption of the guidelines for verification of conformity with goal-based ship construction of conformity with goal-based

ship construction standards for bulk carriers and oil tankers)

Sub-Committee on Safety of Navigation

49th Session (30 June – 4 July 2003)

Summary Reports: http://www.imo.org/Newsroom/mainframe.asp?topic_id=112&doc_id=2797

NAV 49/19 Report to the Maritime Safety Committee. (Section 15 – Guidance on early abandonment

for bulk carriers)

Sub-Committee on Stability and Load Lines and on Fishing Vessels Safety

45th Session (22 – 26 July 2002)

Summary Reports: http://www.imo.org/Newsroom/mainframe.asp?topic_id=246&doc_id=1759

SLF 45/14 Report to the Maritime Safety Committee (Section 9 – Matters related to bulk carrier safety)

46th Session (8 – 12 December 2003)

Summary Reports: http://www.imo.org/Newsroom/mainframe.asp?topic_id=246&doc_id=3190

SLF 46/16 Report to the Maritime Safety Committee. (Section 12 – Improved loadings/stability

information for bulk carriers)

47th **Session** (13-17 September 2004)

Summary Reports: http://www.imo.org/Newsroom/mainframe.asp?topic_id=246&doc_id=3356

SLF 47/17 Report to the Maritime Safety Committee. (Section 12 – Improved loading/stability

information for bulk carriers; Annex 10 – Draft MSC Circular on guidelines on the provisions

of stability-related information for bulk carries)

SOLAS Conferences

SOLAS/CONF.4 (24 – 28 November 1997)

SOLAS/CONF.4/3 Consideration and adoption of amendments to the International Convention for the Safety of

Life at sea. Draft text of amendments.

SOLAS/CONF.4/4 Consideration and adoption of amendments to Resolution A.744(18) – Guidelines on the

enhanced programme of inspections during surveys of bulk carriers and oil tankers. Draft text

of amendments.

SOLAS/CONF.4/5	Consideration and adoption of resolutions and recommendations and related matters
SOLAS/CONF.4/8 & SOLAS/CONF.4.8/Corr.1	Consideration and adoption of amendments to the International Convention for the Safety of Life at sea, 1974. Proposed amendments to the draft text of amendments. Submitted by Baltic and International Maritime Council (BIMCO)
SOLAS/CONF.4/9	Idem. Draft text of new chapter XII. Submitted by Japan.
SOLAS/CONF.4/10	Idem. Modification of Regulation XII/3. Submitted by the Republic of Korea
SOLAS/CONF.4/12	Idem. Comments on the draft text of new chapter XII. Submitted by Japan.
SOLAS/CONF.4/13	Idem. Note by Germany
SOLAS/CONF.4/15	Idem. Interpretation of the definition of "bulk carrier" in Solas regulation IX/1.6; application of the proposed new requirements in Solas chapter XII. Note by Norway
SOLAS/CONF.4/14	Idem. Proposed amendments to the Convention. Submitted by Australia
SOLAS/CONF.4/17	Idem. Submitted by Cyprus
SOLAS/CONF.4/18	Idem. Note by Cyprus
SOLAS/CONF.4/19	Idem. Submitted by Cyprus
SOLAS/CONF.4/20	Consideration and adoption of amendments to Resolution A.744(18) – Guidelines on the enhanced programme of inspections during surveys of bulk carriers and oil tankers. Note by Cyprus
SOLAS/CONF.4/21	Consideration and adoption of resolutions and recommendations and related matters. Proposed draft Conference resolution on the interpretation of the definition of bulk carrier. Submitted by the Netherlands and Norway
SOLAS/CONF.4/22	Consideration and adoption of amendments to the International Convention for the Safety of Life at sea, 1974. The lower size limit for application of the new chapter XII of SOLAS 1974. Submitted by Norway
SOLAS/CONF.4/23	Consideration and adoption of resolutions and recommendations and related matters. Submitted by Cyprus
SOLAS/CONF.4/24	Adoption of the Final Act of the Conference. Final Act of the Conference on Contracting Government to the International Convention for the Safety of Life at Sea, 1974. Text adopted by the Conference
SOLAS/CONF.4/25	Conference resolution 1 and related amendments to SOLAS; Conference resolution 2 and related amendments to resolution A.744(18); and Conference resolution 3 to 9 as adopted by the Conference.
SOLAS/CONF.4/25	Conference Resolution 2 and related amendments to Resolution A.744(18) - Amendments to the guidelines on the enhanced programme of inspections during surveys of bulk carriers and oil tankers.
SOLAS/CONF.4/INF.3	Consideration and adoption of amendments to the International Convention for the Safety of Life at sea, 1974. Note by Cyprus. This document advises the Conference on the investigation into the loss of the single skin bulk carrier "Albion Two"

SOLAS/CONF.4/INF.4 Consideration and adoption of amendments to the International Convention for the Safety of Life at sea, 1974. Note by Cyprus. This document advises the Conference on the investigation into the loss of the single skin bulk carrier "Leros Strength"

IMO PUBLICATIONS

SOLAS

- **SOLAS.** Consolidated edition 2009. (IM0-IE110E). Language(s): E

1997/1998 Amendments to the International Convention for the Safety of Life at Sea, 1974.. 1999 Edition. (IMO-158E). (New Chapter XII Additional safety measure for bulk carriers)

Resolutions of the 1997 SOLAS Conference relating to bulk carrier safety - Solas – International Convention for the Safety of Life at Sea, 1974 :. 1999 Edition. (IMO-I160E)

This publication contains the remaining resolutions of the 1997 SOLAS Conference, i.e. resolutions 2 to 9. They include amendments to the Guidelines on the enhanced programme of inspections during surveys of bulk carriers and oil tankers (resolution A.744(18), as previously amended by resolution MSC.49(66)), which are mandatory under regulation XI/2 of the Convention.

2001 and 2002 Amendments to Solas. 2003 Edition (IMO-I117E)

Chapter XII - Additional safety measures for bulk carriers

IMO CODES/MANUALS

BC CODE - Code of safe practice for solid bulk cargoes. 2004 Edition (IMO-ID260E)

BLU CODE - Code of practice for the safe loading and unloading of bulk carriers. 1998 Edition. (IMO-I266E). Language(s): E.S

The BLU was approved by the MSC at its 68th session (June 1997) and adopted by the Assembly at its 20th session (November 1997) by resolution A.862(20). The Code, which provides guidance to masters of bulk carriers, terminal operators and other parties concerned with the safe handling, loading and unloading of solid bulk cargoes, is also linked to regulation VI/7 of the 1974 SOLAS Convention, as amended by resolution MSC.47(66).

BLU MANUAL – Manual on loading and unloading of solid bulk cargoes for terminal representatives, 2008 edition. (IMO-I267E)

In response to the continuing loss of ships carrying solid bulk cargoes sometimes without trace and with heavy loss of life – the Code of Safe Practice for the Safe Loading and Unloading of Bulk Carriers (BLU Code) was developed by IMO as one of a number of measures to enhance the operational and structural safety of bulk carriers. It was adopted as a recommendatory instrument by the International Maritime Organization's Assembly at its twentieth session in November 1997

IBC CODE: International Code for the construction and equipment of ships carrying dangerous chemicals in bulk 2007 edition. Language(s): E (IMO-IC100E)

IGC CODE - International Code for the construction and equipment of ships carrying liquefied gases in bulk : IGC Code. 2nd. Ed.. 1993 Edition. (IMO-I104). Language(s): E, F, S, A.

IGC CODE: Gas carrier code: 1994 and 1996 amendments. 1998 Edition (IMO-I165)

- **1994 amendments** to the International Code for the Construction and Equipment of Ships Carrying Liquefied Gases in Bulk (IGC Code): Adopted in accordance with Article VIII of the International Convention for the Safety of Life at Sea, 1974: Resolution MSC.32(63) adopted on 23 May 1994: *Certified true copy*** signed on October 5th, 1994. Language(s): E/S/F/C/R/A.

- **1996 amendments** to the International Code for the Construction and Equipment of Ships carrying liquefied gases in bulk (IGC Code): Adopted in accordance with article VIII of the International Convention for the Safety of Life at Sea, 1974: *Certified true copy*** signed on 20 January 1998. Language(s): E/F/S/A/C.
- **2000 amendments** to the International Code for the construction and equipment of ships carrying liquefied gases in bulk (IGC Code). Adopted in accordance with article VIII of the International Convention for the Safety of Life at Sea, 1974). *Certified true copy*** signed on 27 March 2002. Language(s): E/F/S/A/C/R

International Grain Code - International code for the safe carriage of grain in bulk. 1991 Edition. Language(s): E, F, S, R, A, C. (IMO-I240).

IMSBC Code : International Maritime Solid Bulk cargoes Code and Supplement. 2009 edition. Language(s): E, F, S (IMO-IE260E)

IMO GUIDELINES

Guidelines on surveys required by the 1978 SOLAS Protocol, the IBC Code and the IGC Code. 1987 Edition. (IMO-I858)

Guidelines on the enhanced programme of inspections during surveys on bulk carriers and oil tankers. 2008 Edition (IMO-IA265E)

The Guidelines became mandatory in 1996, under SOLAS regulation XI/2, which requires that bulk carriers and oil tankers be subject to an enhanced programme of inspections in accordance with the Guidelines. Since their adoption, the Guidelines have been frequently updated and brought in line with regulatory and technological developments as well as with current practice, in particular with the relevant IACS Unified Requirements.

- 1996 amendments to the guidelines on the enhanced programme of inspections during surveys of bulk carriers and oil tankers (Resolution A.744(18)) (Adopted in accordance with article VII of the International Convention for the Safety of Life at Sea, 1974): *Certified true copy*** signed on March 18th, 1997. Language(s): E/F/S
- 2000 Amendments to the guidelines on the enhanced programme of inspections during survey of bulk carriers and oil tankers. (Resolution A.744(18), adopted in accordance with article VIII of the International Convention for the Safety of Life at Sea, 1974). *Certified true copy* ** signed on 27 March 2002. Language(s): E/F/S/A/C/R
- 2003 Amendments to the guidelines on the enhanced programme of inspections during surveys of bulk carriers and oil tankers (Resolution A.744(18)) (adopted in accordance with article VIII of the International Convention for the Safety of Life at Sea, 1974). *Certified true copy* ** signed on 5 April 2005. Language(s): E/F/S/A/R

** Certified true copy is not a sales item

CONFERENCE PROCEEDINGS

AMERICAN BUREAU OF SHIPPING (ABS) - Bulk carrier safety - Seminar (December 1st, 1994 : London) . London : ABS, 1994

ARIMA, T. - FSA study on bulk carrier safety. *In: Royal Institution of Naval Architects (RINA)* Formal safety assessment - International Conference (18-19 September 2002). London: RINA, 2002, pp 15-30

ARMSTRONG, G. - Bulk carrier ballast system design for flow through exchange of ballast water. *In: Royal Institution of Naval Architects (RINA)*Design and operation of bulk carriers - International Conference (30 April - 1 May 1998: London). London: RINA, 1998, Paper 14

- ASTRUGE, J-C. et al International collaborative FSA study on bulk carriers. *In: Royal Institution of Naval Architects* (RINA) Formal safety assessment International Conference (18-19 September 2002). London: RINA, 2002, pp 41-56
- BARBER, D. Capt. Bulk carriers post FSA: Variations on compliance. A report from a ship inspector. *In: Royal Institution of Naval Architects (RINA) International Conference, Design and operation of bulk carriers (London: 18-19 October 2005). London, RINA, 2005, pp. 1-10*
- BEGHIN, D. et al Hull girder safety and reliability of bulk carriers. *In: Oosterveld, M.W.C.; Tan, S.G. (Eds.)Practical design of ships and mobile units Proceedings of the International Symposium (7th : September 1998 : The Hague). Oxford : Elsevier Science, 1998, pp 261-272*
- BRAIDWOOD, I.T. et al Bulk carrier structural integrity: Predicting fatigue life with influence functions. *In: Royal Institution of Naval Architects (RINA)* Design and operation of bulk carriers International Conference (30 April 1 May 1998: London). London: RINA, 1998, Paper 15
- BRAZDIS, S. ET AL New innovation and safety DSS bulk carrier design. *In: Royal Institution of Naval Architects* (RINA) International Conference, Design and operation of bulk carriers (London: 18-19 October 2005). London, RINA, 2005, pp 133-142
- BROOK, A.K. Improving the safety of tankers and bulk carriers through a hull condition monitoring scheme. *In: Lloyd's Register of Shipping Tanker and bulker safety : Planning for the future Seminar (15 January 1993 : London). London : Lloyd's Register of Shipping, 1993*
- BRYSON, P. Management of bulk carrier structure. *In: Royal Institution of Naval Architects (RINA) International Conference, Design and operation of bulk carriers (London: 18-19 October 2005). London, RINA, 2005, pp 31-56*
- BURTON, J.A. Enhanced survey of oil tankers and bulk carriers. *In: Lloyd's Register of Shipping Tanker and bulker safety: Planning for the future Seminar (15 January 1993: London). London: Lloyd's Register of Shipping, 1993*
- BYRNE, D. / EVANS, J. Hatch covers: Failures on laden bulk carriers in heavy weather with reference to current design practice. *In: Royal Institution of Naval Architects (RINA)*Design and operation of bulk carriers International Conference (30 April 1 May 1998: London). London: RINA, 1998, Paper 12
- DAHL, T. New rules for safer bulk carrier hatch covers: Challenges for hatch cover design. *In: Royal Institution of Naval Architects (RINA) International Conference, Design and operation of bulk carriers (London: 18-19 October 2005). London, RINA, 2005, pp 23-28*
- DECROP, P. Safe loading and unloading on bulk carriers. In: Eule and Partners International Consulting The maritime environment: Ship/port interface Environment and safety International Conference and Exhibition The Netherlands (22-24 October 2002: Rotterdam), 2002
- GARDINER, C.P. Aspects of bulk carrier hold corrosion. *In: Royal Institution of Naval Architecture (RINA)* Design and operation of bulk carriers International Conference (30 April 1 May 1998 : London). London : RINA, 1998, Paper 7
- GAVIN, A.G. Ageing bulk carriers structures: Reinforce, renew or scrap? *In: Institute of Marine Engineers (IMARE), IMAS 97 Conference. Ships: The ageing process (London, 1997), pp 21-32. London, IMARE, 1998.*
- GRATSOS, G.A. / ZACHARIADIS, P. Life cycle cost of maintaining the effectiveness of a ship's structure and environmental impact of ship design parameters. *In: Royal Institution of Naval Architects (RINA) International Conference, Design and operation of bulk carriers (London: 18-19 October 2005). London, RINA, 2005, pp 95-122*
- GUARIN, L. et al Impact of URS21 on existing hatch covers of bulk carriers. *In: Royal Institution of Naval Architects (RINA)*Formal safety assessment International Conference (18-19 September 2002). London: RINA, 2002, pp 57-66

HARDING, S. et al - Formal safety assessment of bulk carriers. *In: Royal Institution of Naval Architects (RINA) Formal safety assessment - International Conference (18-19 September 2002). London : RINA, 2002, pp 1-14*

INTERNATIONAL ASSOCIATION OF DRY CARGO SHIPOWNERS (INTERCARGO)

- Bulk Carrier Casualties Seminar (10 June 1991 : Oslo) . London : Intercargo, 1991
- Bulk Carriers Casualties and Losses Seminar Hong Kong (15 October 1991) . London: Intercargo, 1991
- Bulk carrier safety Intercargo Seminar (12 March 1997 : London). London : Intercargo, 1997
- Benchmarking bulk carriers through port state control data : A reference document for the supply chain. London, Intercargo, 2006
- ISBESTER, J. The concerns of mariners. *In: Royal Institution of Naval Architecture (RINA)* Design and operation of bulk carriers International Conference (30 April 1 May 1998: London). London: RINA, 1998, Paper 5
- JANG, C.D. / YOON, G.J. Optimum structural design of double hull bulk carriers. *In: Royal Institution of Naval Architects (RINA)* Design and operation of bulk carriers International Conference (30 April 1 May 1998: London). London: RINA, 1998, Paper 17
- JOHNSTON, A. / HARRISON, I. Pros and cons of double side skin bulk carriers. *In: Royal Institution of Naval Architects (RINA) International Conference, Design and operation of bulk carriers (London: 18-19 October 2005). London, RINA, 2005, pp 123-132*
- KATTAN, R. Corrosion in ballast tanks Is rust a must? *In: Royal Institution of Naval Architects (RINA) International Conference, Design and operation of bulk carriers (London: 18-19 October 2005). London, RINA, 2005, pp 169-174*
- KOLEV, P. ET AL Upgrade of existing bulk carriers to meet the new requirements. *In: Royal Institution of Naval Architects (RINA) International Conference, Design and operation of bulk carriers (London: 18-19 October 2005). London, RINA, 2005, pp 87-94*
- KONISHI, H. et al Design of corrugated bulkhead of bulk carriers against accidental flooding load. *In: Oosterveld, M.W.C.; Tan, S.G. (Eds.)Practical design of ships and mobile units Proceedings of the International Symposium (7th: September 1998: The Hague). Oxford: Elsevier Science, 1998, pp 157-164*
- LLOYD'S REGISTER OF SHIPPING Tanker and bulker safety : Planning for the future Seminar (15 January 1993 : London) . London : Lloyd's Register of Shipping, 1993
- MATHIESEN, T. Safety of new and existing bulk carriers IACS studies and conclusions . *In: Royal Institution of Naval Architecture (RINA)* Design and operation of bulk carriers International Conference (30 April 1 May 1998 : London). London : RINA, 1998, Paper 3
- MIN, K. Safety of bulk carriers IMO Code of safe loading and unloading of bulk carriers. *In: Korea Maritime Dangerous Goods Inspection Center (KOMDIC)* ISTGD: International Symposium on the Transport of Dangerous Goods by Sea and Inland Waterways Proceedings (13th: 26-28 October 1998: Seoul)KOMDIC, 1998, pp 222-245

MORTENSEN, N.B.

- Bulk carrier safety: The view and role of an industry organisation. In: Royal Institution of Naval Architecture (RINA) Design and operation of bulk carriers International Conference (30 April 1 May 1998: London). London: RINA, 1998, Paper 1
- Bulk carrier newbuilding specification guide. *In: Royal Institution of Naval Architects (RINA) International Conference, Design and operation of bulk carriers (London: 18-19 October 2005). London, RINA, 2005, pp 29-30*

- NIEUWENHUIJS, M. IACS common structural rules for bulk carriers. *In: Royal Institution of Naval Architects (RINA) International Conference, Design and operation of bulk carriers (London: 18-19 October 2005). London, RINA, 2005, pp 11-22*
- PAIK, J.K. / THAYAMBALLI, A.K. The strength and reliability of transverse bulkheads and hull structure of bulk carriers. In: Royal Institution of Naval Architecture (RINA) Design and operation of bulk carriers - International Conference (30 April - 1 May 1998: London). London: RINA, 1998, Paper 9
- PECKHAM, R. Safety and efficiency at the dry bulk terminal/bulk carrier interface. *In: Eule and Partners International Consulting The maritime environment : Ship/port interface Environment and safety International Conference and Exhibition The Netherlands (22-24 October 2002 : Rotterdam), 2002*
- PLAZA, F. IMO's work on bulk carriers Un update In: The Royal Institution of Naval Architects (RINA) Design and operation of bulk carriers. International Conference, London 30 April 1 May 1998. London, RINA, 1998.
- RAINEY, R.C.T. / ATKINS, W.S. Failure of bulk carrier bulkheads after flooding. *In: Royal Institution of Naval Architects (RINA)* Design and operation of bulk carriers International Conference (30 April 1 May 1998: London). London: RINA, 1998, Paper 11
- ROBINSON, D.W. How classification societies can respond to the operational needs of bulk carrier masters. *In: Nautical Institute For operators, ship captains and those aspiring to command The International Command Seminar (10-11 May 1995 : London). London : The Nautical Institute, 1995, pp 165-178*

ROYAL INSTITUTION OF NAVAL ARCHITECTURE (RINA)

- Design and operation of bulk carriers International Conference (30 April 1 May 1998 : London) . London : RINA, 1998
- International Conference : Formal safety assessment (18-19 September 2002 : London) . London : RINA, 2002-(ISBN : 0-903055-80-5)
- Design and operation of bulk carriers. International Conference (18-19 October 2005 : London). London RINA, 2005. (ISBN 1-905040-16-4)
- SANBERG, B.- Cost benefit assessment of risk control options for bulk carriers. *In: Royal Institution of Naval Architects (RINA) Formal safety assessment International Conference (18-19 September 2002). London : RINA, 2002, pp 89-108*
- SOCIETY OF INTERNATIONAL GAS TANKER AND TERMINAL OPERATORS (SIGTTO) A guide to contingency planning for marine terminals handling liquefied gases in bulk. 2nd ed.. London: Witherby & Co. Ltd, 2001. (ISBN: 1-85609-215-1)
- SPYROU, K. et al Risk assessment of double-skin bulk carriers. *In: Royal Institution of Naval Architects (RINA)* Formal safety assessment International Conference (18-19 September 2002). London: RINA, 2002, pp 67-88
- STALING, M. / KRSTANOVIC, S. Formal safety assessment of bulk carriers under 150m. *In: Royal Institution of Naval Architects (RINA)* Formal safety assessment International Conference (18-19 September 2002). London: RINA, 2002, pp 31-40
- TORGERSEN, J.G. Shipowner's view of Solas amendments Re.: Bulk carriers. *In: American Bureau of Shipping (ABS)*Safer ships competent crews International Conference (24-25 October 1996: Halifax, Nova Scotia). New York: ABS, 1997, pp 57-65
- TUSTIN, R.D. Existing bulk carrier safety: On the evaluation of corrugated watertight bulkhead and double bottom structure of existing single side skin bulk carriers with the foremost hold flooded. *In: Royal Institution of Naval Architecture (RINA)*Design and operation of bulk carriers International Conference (30 April 1 May 1998: London). London: RINA, 1998, Paper 6

WIDDOWSON, A.J. / PROCTOR, T.J. Capt. – The human element in design. *In: Royal Institution of Naval Architects* (RINA) International Conference, Design and operation of bulk carriers (London: 18-19 October 2005). London, RINA, 2005, pp 161-168

WILLIAMS, I. - Bulk carrier safety: The regulatory perspective. In: Royal Institution of Naval Architecture (RINA) Design and operation of bulk carriers - International Conference (30 April - 1 May 1998: London). London: RINA, 1998, Paper 4

EUROPEAN UNION

Common Position (EC) No 28/2001 of 28 June 2001 adopted by the Council, acting in accordance with the procedure referred to in Article 251 of the Treaty establishing the European Community, with a view to adopting a Directive of the European Parliament and of the Council establishing harmonised requirements and procedures for the safe loading and unloading of bulk carriers (2001/C 301/O3). (OJ, Vol. 44/C 301, pp 22-38, 26/10/2001)

Opinion of the Economic and Social Committee on the "Proposal for a Directive of the European Parliament and of the Council establishing requirements and harmonised procedures for the safe loading and unloading of bulk carriers" (2001/C 14/08). (O.J. Vol. 44/C 14, pp 37-40, 16/01/2001)

Safe loading and unloading of bulk carriers (http://europa.eu.int/scadplus/leg/en/lvb/124240.htm)

Proposal for a Directive of the European Parliament and of the Council establishing requirements and harmonised procedures for the safe loading and unloading of bulk carriers. Brussels: Commission of the European Communities, 2000 (COM(2000) 179 Final)

Directive 2001/96/EC of the European Parliament and of the Council of 4 December 2001 establishing harmonised requirements and procedures for the safe loading and unloading of bulk carriers. (OJ, L 13, pp 9-15 16/01/2002) (http://europa.eu.int/smartapi/cgi/sga_doc?smartapi!celexapi!prod!CELEXnumdoc&lg=en&numdoc=32001L0096&model=guichett)

OTHER PUBLICATIONS

BALTIC AND INTERNATIONAL MARITIME COUNCIL (BIMCO) - - Bulk carrier safety. BIMCO Special Bulletin. London, Stroudgate Plc, 1998 (ISBN 1-900521-90-3

BALTIC AND INTERNATIONAL MARITIME COUNCIL (BIMCO) / MARINE TECHNICAL MANAGERS ASSOCIATION (MARTECMA) - Bulk carrier newbuilding specification guide. Bagsvaerd/Piraeus, BIMCO/MARTECMA, September 2005.

BES, J. - Bulk carriers: Practical guide to the subject for all connected with the shipping business. 2nd ed. London, Barker & Howard Ltd, 1972. (ISBN 0-900133-09-0)

BUREAU OF TRANSPORT AND COMMUNICATIONS ECONOMICS - Structural failure of large bulk ships. Canberra : Australian Government Publishing Service, 1994 (ISBN : 0-644-33027-9)

BURTON, J.A. - Enhanced survey of oil tankers and bulk carriers. *In: Sterling Publications Ltd Maritime transport international 1993. London: Sterling Publications Ltd*, 1993, pp 42-44

CLARKSON RESEARCH INSTITUTE - Bulk carrier register 1995. London, Clarkson Research Institute, 1995. (ISBN 0-900291-59-1)

DET NORSKE VERITAS (DNV)

- Bulk carrier losses. Hovik: Det Norske Veritas, 1991
- Cost benefit analysis of existing bulk carriers : A case study on application of formal safety assessment techniques. Hovik : DNV, 1997 (Paper Series No. 97-P008)
- Focus on bulk carrier safety. In: Forum (The corporate magazine of Det Norske Veritas), No. 2/2001. pp 3-9

EKNES, M.L. - Safety evaluation of the Optimum 2000 capesize bulk carrier. Oslo, Libæk and Associates A/S, 2002.

EWART, W.D. - Bulk carriers. Coulsdon, Fairplay Publications Ltd, 1984. (ISBN 0-905045-42-4)

FERGUSON, J. / ROBINSON, D. - Design and operations of bulk carriers: The safety issue. *In:*Sterling Publications Shipbuilding Technology International '92. London: Sterling Publication Ltd, 1992, pp 63-65

FERGUSON, J.M. et al / LLOYD'S REGISTER OF SHIPPING - On bulk carrier safety . London : Lloyd's Register of Shipping, 1993 (Paper No. 5, Session 1992-1993)

FORMAL SAFETY ASSESSMENT OF BULK CARRIERS – Bulk carrier model tests. http://www.mcga.gov.uk/aboutus/bulkcarriers/studies.htm

GRATSOS, G.A. - Bulk carrier safety. In: Hellenic Chamber of Shipping Review Vol. 145, 1997, pp 133-144

HEDELIN, C. / RESARE, M. - Ore cargo loading and its effect on the strength of ships. Göteborg (Norway): Chalmers University of Technology, 1992

INSTITUTE OF MATHEMATIC MODELLING (IMM) - Losses and major casualties 1984-92 tankers and bulkers 10,000 GT and above. Lyngby (Denmark): IMM, 1995 (IMM-REP-1995-7)

INTERNATIONAL ASSOCIATION OF CLASSIFICATION SOCIETIES (IACS)

- Bulk carriers: Guidance and information to shipowners and operators. London: IACS, 1992
- Bulk carriers : Guidelines for surveys, assessment and repair of hull structure. 3rd ed.. London : Witherby and Co. Ltd, 1995 (ISBN : 1-85609-135-X)
- Bulk carriers : Guidance and information on bulk cargo loading and discharging to reduce the likelihood of over-stressing the hull structure. London : IACS, 1997
- Bulk carriers : Handle with care. London, IACS, 1998.
- Bulk carrier safety. In: International Association of Classification Societies (IACS) The IACS Briefings 1996-1998. London: IACS, 1999 (IACS Briefing No. 5, September 1997)
- Formal Safety Assessment of bulk carriers. London, IACS, 2002. (http://www.iacs.org.uk/fsa/wp5/main.htm)
- Pros and cons of double side skin construction (DSS) vs. single side skin construction (SSS) for new construction under SOLAS Chapter XII, 2002- (http://www.iacs.org.uk/fsa/wp5/doublehull.htm)

INTERNATIONAL ASSOCIATION OF DRY CARGO SHIPOWNERS (INTERCARGO) http://www.intercargo.org

- Analysis of total loss and fatality statistics : Bulk carriers, ore carriers and OBOs 1990-1995. London : Intercargo, 1996
- Bulk carrier casualty report : Analysis of total loss and fatality statistics for dry bulk carriers 1990-1997. London : Intercargo, 1998
- Bulk carrier casualty report : Analysis of vessel losses and fatalities 1998, including data 1990-1998. London : Intercargo, 1999
- Bulk carrier casualty report: Analysis of vessels losses and fatalities statistics for 1999 and ten years of losses 1990-1999.

London, Intercargo, 2000.

- Bulk Carrier casualty report: 2000 and the previous ten years (1991-2000). London, Intercargo, 2001
- Bulk carrier casualty report: 2001 and the previous ten years (1992-2001). London, Intercargo, 2002
- Bulk carrier casualty report: 2002, the previous ten years (1993-2000_ and the trends. London: Intercargo, 2003
- Bulk carrier casualty report: 2003, the previous ten years (1994-2003) and the trends. London, Intercargo, 2004
- Bulk carrier casualty report 2004, the previous ten years (1995-2004) and the trends. London, Intercargo, 2005
- Bulk carrier casualty report 2005, the previous ten years (1996-2005) and the trends. London, Intercargo, 2006
- Bulk carrier terminal report : September 2000. London, Intercargo, 2000
- Port state control: A guide for ships involved in the dry bulk trades. London, Intercargo, 2000
- Bulk carriers : Guidelines for surveys, assessment and repair of hull structures. 2nd ed. London, Witherby & Co. Ltd, 2002 (ISBN 1-85609-223-2)
- Technical and operational update for bulk carriers. 2006: Issue One. London, Intercargo, 2006
- Benchmarking bulk carriers through port state control data. London, Intercargo, 2006

INTERNATIONAL CARGO HANDLING CO-ORDINATION ASSOCIATION (ICHCA) - The loading and unloading of solid bulk cargoes. London: ICHCA, 1998. (ISBN: 1-85330-096-9)

INTERNATIONAL CHAMBER OF SHIPPING (ICS) - Ship shore safety checklist for bulk carriers. London, ICS, 2000

$INTERNATIONAL\ ORGANIZATION\ FOR\ STANDARDIZATION\ (ISO)$

- Ships and marine technology : Bulk carriers : Construction quality of hull structure. Geneva, ISO, 2000. (ISO 15401)
- Ships and marine technology: Bulk carriers: Repair quality of hull structure. Geneva, ISO, 2000. (ISO 15402)

ISBESTER, J. - Bulk carrier practice. London: The Nautical Institute, 1993 (ISBN: 1-870077-16-4)

JUBB, J. - Structural failures of bulk carriers. Lecture presented at an ordinary meeting of the Institution held in London on 25 January 1995. London: Institution of Mechanical Engineers, 1995

LIBEK AND ASSOCIATES A/S - Capesize bulk carrier : Preliminary outline specification. Oslo : LibÆk and Associates A/S, 2002

LLOYD'S REGISTER OF SHIPPING

- Bulk carriers The safety issues. London: Lloyd's Register of Shipping, 1991
- Bulk carriers : Guidance to operators on the inspection of cargo holds. London : Lloyd's Register of Shipping, 1991
- Bulk carriers: An update (January 1996). London: Lloyd's Register of Shipping, 1996
- Lloyd's Register on bulk carrier safety. In: Marine Bulletin, Issue 1, 2002, pp 1-4. http://www.cdlive.lr.org/information/otherdocs/marinebulletin/mb1_02.pdf

MARITIME AND COASTGUARD AGENCY (MCA) – Bulk carriers safety studies 1998-2004. Southampton, (UK) < MCA, 2006 (Marine Information Note 228 (M))

NIPPON KAIKI KYOKAI (NKK) - Study report on bulk carriers loss: January 1992. Tokyo: NKK, 1992

OIL INTERNATIONAL COMPANIES MARINE FORUM (OCIMF) – Vessel inspection questionnaire for bulk oil/chemical carriers and gas carriers – V.I.Q. 2nd ed. London: Witherby & Co. Ltd, 2000 (ISBN : 1-85609-200-3)

PATTOFATTO, G. – Bulk carriers: Safety for ships and seafarers. *In: Baltic and International Maritime Council (BIMCO), BIMCO Review 1998, pp 79-82. London, Stroudgate Plc, 1999.*

PLAZA, F. - IMO's work on bulk carriers. London, IMO, 1996.

PSAROS, G.A. – Operational risk management in maritime transport : Tools, trends, methodology and application to dry bulk shipping. Saabrücken, Germany, LAP Lambert Academic Publishing, 2009 (ISBN 978-38383-2441-8)

SWIFT, P.J. - Safe operation of bulk carriers. *In: Nautical Institute* The Nautical Institute on the management of safety in shipping. London: Nautical Institute, 1991, pp 168-170 (ISBN: 1-870077-08-3)

TOLERTON, N. – Bulk carriers : The ocean Cinderella. Christchurch (New Zealand), Willson Scott Publishing Ltd, 2005 (ISBN 0-9582535-0)

TUSTIN, R.D. / LLOYD'S REGISTER OF SHIPPING. LR Technical Association - Existing bulk carrier safety: On the evaluation of the foremost hold structure under conditions of hold flooding. London: Lloyd's Register of Shipping, 1998 (Paper No. 7 - Session 1997-1998)

UNITED STATES COAST GUARD (USCG) et al - Bulk carriers : Inspection guidance for terminal personnel and crew. Washington, D.C. : USCG, 1995

ZAGARIA, G. – Development of new regulations regarding the design standards of hatch covers: The work of the IMO concerning the safety of bulk carriers. Thesis. University of Naples "Federico II", Department of Naval Architecture and Marine Engineering, Italy, Academic Year 2002-2003.

DVDs/VIDEOS

Bulk carriers serving world trade. VHS/PAL Format. London, International Association of Dry Cargo Shipowners (Intercargo)

Bulk carriers - Handle with care. London, London, Videotel Marine International.

Keeping up standards : Ship vetting inspection for bulk carriers. Edition 3. DVD/PAL. London, Videotel Marine International, 2006

Personal safety on bulk carriers. VHS/PAL Format. London, Videotel Marine International.

Cargo loss prevention on board bulk carriers. VHS/PAL Format. London, Videotel Marine International .

Bulk matters. VHS/PAL Format. London, The United Kingdom Mutual Steam Ship Assurance Association (Bermuda) Ltd. (UK P & I Club).

The mandatory adoption of DSS design on bulk carriers: Does it require rethinking? Video presentation. CD-ROM. Illiniko, Dynamix – Digital Marine Solutions for the Ministry of Mercantile Marine, Hellenic Republic, Greece, 2004.

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ARTICLES FROM THE PRESS

Notices

- 1. For a list of articles in the press please refer to the IMO website and <u>SeaLibrary</u> the online catalogue of the Maritime Knowledge Centre using the terms: "bulk carriers, safety, article"
- 2. The IRDs changed the contents in 2008 therefore if you wish to receive an archive copy where you can find a full list of articles (Technical and Legal) on the subject, please contact <u>maritimeknowledgecentre@imo.org</u> (Please note that the IRDs were last updated in November/December 2007)