



KR
KOREAN REGISTER OF SHIPPING
**TECHNICAL
INFORMATION**

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Date : 25 June 2012

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NO. 2012-IMO-07

**Subject : Prohibition of new installation of materials containing
Asbestos**

Since 1 July 2002, the installation of materials that contain asbestos has, under SOLAS regulation II-1/3-5, been prohibited for all ships, except for some vanes, joints and insulation.

From 1 January 2011, any installation of materials that contain asbestos has, under SOLAS regulation II-1/3-5, been prohibited, for all ships without exceptions.

To providing a common basis for certifying that new installations on ships are asbestos-free based on declarations and supporting documentation, an IACS Unified Interpretation (hereinafter UI) SC249 on "Implementation of SOLAS II-1, regulation 3-5 and MSC.1/Circ.1379" had been developed and is to be implemented by IACS Societies as soon as possible, but not later than 1 July 2012.

And, IACS also submitted the UI to DE 56 and the sub-committee agreed to a draft MSC circular based on IACS UI SC249. At MSC 90 which was held May 2012, MSC.1/Circ.1426 on Unified interpretation of SOLAS regulation II-1/3-5, concerning new installation of materials containing asbestos was approved with some modifications to the draft circular agreed at DE 56. The final MSC.1/Circ.1426 is yet to be published by IMO Secretariat but the contents of the approved circular is attached to Annex 1 to this technical information.

What to do?

- 1) Surveyors and ISM auditors

1.1) Surveys during construction or conversion

For the ships keel laid or converted on or after 1 July 2012, surveyor shall review asbestos-free declarations and supporting documentation, for structure, machinery, electrical installations and equipment covered by the SOLAS Convention, which is to be provided by shipyards, repair yards, and equipment manufacturers. (Refer to the indicative list in the Annex 1 to MSC.1/Circ.1426) This review shall be certified by Passenger Ship Safety Certificate, Cargo Ship Safety Construction Certificate or Cargo Ship Safety Certificate. And no additional certificate needs not be issued by KR.

1.2) For existing ships (periodical surveys and ISM audits)

Material used (i.e. repaired, replaced, maintained or added) as a working part of the ship as per Annex 1 to MSC.1/Circ.1426 which is installed on or after 1 July 2012 is required to be documented with asbestos-free declaration. Surveyor and ISM auditors, in consultation with the Company's nominated person responsible to control asbestos containing material onboard as per the Safety Management System in accordance with MSC/Circ.1045, shall audit this documentation during the periodical SC and SE surveys, and also during the ship's intermediate and renewal verification of SMC.

This does not preclude the stowage of material which contains asbestos onboard (e.g., spare parts existing on board as of 1 July 2012).

2) Shipbuilders (including repair shipyards)

For ships constructed on or after 1 July 2012, shipbuilders shall confirm that all materials used for ship's structure, machinery, electrical installations and equipment covered by the SOLAS Convention do not contain asbestos. Shipbuilders shall issue an asbestos-free declaration and provide supporting documents to attending surveyor. Please refer to Annex 3 for a sample format for asbestos-free declaration. Also the MSC circular provides an "Indicative list" of materials which may contain asbestos, taken from resolution MEPC.197(62), Appendix 5, paragraph

2.2.2.1. (Refer to Annex 1 to MSC.1/Circ.1426)

3) Ship Owners or Managers

The Company should make provisions, including the nomination of a responsible person to control the maintenance and monitoring program for asbestos, in their Safety Management System (developed for compliance with the ISM Code) for the maintenance and monitoring of on board materials containing asbestos in line with the provisions of the MSC/Circ.1045.

The Company should implement and control that any material used (i.e., repaired, replaced, maintained or added) as a working part of the ship which is installed on or after 1 July 2012 is required to be documented with an asbestos-free declaration.

Attachment : Annex 1. (Draft) MSC.1/Circ.1426

Annex 2. Sample format for asbestos-free declaration

Annex 3. IACS UI SC249

<End>



Kim Kyu-seob

Executive Vice President

Statutory Survey Division

Korean Register of Shipping

Distributions : KR surveyors, KR ISM auditors, ship owners/managers, ship builders

Disclaimer :

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Annex 1. (Draft) MSC.1/Circ.1426

UNIFIED INTERPRETATION OF SOLAS REGULATION II-1/3-5

1. The Maritime Safety Committee, at its ninetieth session (16 to 25 May 2012), with a view to ensuring a uniform approach towards the application of the provisions of SOLAS regulation II-1/3-5, and following a recommendation made by the Sub-Committee on Ship Design and Equipment at its fifty-sixth session, approved the annexed unified interpretation concerning the means by which compliance with SOLAS regulation II-1/3-5 is achieved.

2. In this context, it is recalled that 1 January 2011 was the entry into force date of the amendments to SOLAS regulation II-1/3-5 adopted by resolution MSC.282(86) and the date on which the interpretation of the term "new installation of materials containing asbestos" as contained in MSC.1/Circ.1379 became effective.

3. Member Governments are urged to implement as soon as possible the annexed interpretation when verifying compliance with SOLAS regulation II-1/3-5 and to bring it to the attention of all parties concerned.

ANNEX

UNIFIED INTERPRETATION ON IMPLEMENTATION OF SOLAS REGULATION II-1/3-5 AND MSC.1/Circ.1379

Interpretation of SOLAS regulation II-1/3-5

1. Administrations or recognized organizations acting on their behalf should verify that materials which contain asbestos, as prohibited under SOLAS regulation II-1/3-5, are not installed on ships by reviewing asbestos-free declarations and supporting documentation for the structure, machinery, electrical installations and equipment covered by the SOLAS Convention, which should be provided to the Administration or recognized organization by shipyards, repair yards, and

equipment manufacturers, taking into account appendix 8 of the *2011 Guidelines for the development of the inventory of hazardous materials* (resolution MEPC.197(62)).

Interpretation of MSC.1/Circ.1379

2. The phrase "new installation of materials containing asbestos" in MSC.1/Circ.1379:

.1 means that material used (i.e. repaired, replaced, maintained or added) as a working part of the ship as per the appendix should be documented with an asbestos-free declaration. The Administration or recognized organization should audit this documentation, in consultation with the Company's nominated person responsible to control asbestos-containing material on board as per the Safety Management System in accordance with MSC/Circ.1045, during annual safety construction and safety equipment surveys; and

.2 does not preclude the stowage of material which contains asbestos on board (e.g. spare parts existing on board as of 1 January 2011).

3. The phrase "should not be permitted to be installed after 1 January 2011 as a working part" in MSC.1/Circ.1379 means that replacement, maintenance or addition of materials which contain asbestos used for the structure, machinery, electrical installations and equipment covered by the SOLAS Convention is prohibited.

Annex 1

Structure and/or equipment	Component
Propeller shafting	Packing with low pressure hydraulic piping flange Packing with casing Clutch Brake lining Synthetic stern tubes
Diesel engine	Packing with piping flange Lagging material for fuel pipe

	<p>Lagging material for exhaust pipe</p> <p>Lagging material turbocharger</p>
Turbine engine	<p>Lagging material for casing</p> <p>Packing with flange of piping and valve for steam line, exhaust line and drain line</p> <p>Lagging material for piping and valve of steam line, exhaust line and drain line</p>
Boiler	<p>Insulation in combustion chamber</p> <p>Packing for casing door</p> <p>Lagging material for exhaust pipe</p> <p>Gasket for manhole</p> <p>Gasket for hand hole</p> <p>Gas shield packing for soot blower and other hole</p> <p>Packing with flange of piping and valve for steam line, exhaust line, fuel line and drain line</p> <p>Lagging material for piping and valve of steam line, exhaust line, fuel line and drain line</p>
Exhaust gas economizer	<p>Packing for casing door</p> <p>Packing with manhole</p> <p>Packing with hand hole</p> <p>Gas shield packing for soot blower</p> <p>Packing with flange of piping and valve for steam line, exhaust line, fuel line and drain line</p> <p>Lagging material for piping and valve of steam line, exhaust line, fuel line and drain line</p>
Incinerator	<p>Packing for casing door</p> <p>Packing with manhole</p> <p>Packing with hand hole</p> <p>Lagging material for exhaust pipe</p>
Auxiliary machinery (pump, compressor, oil purifier, crane)	<p>Packing for casing door and valve</p> <p>Gland packing</p> <p>Brake lining</p>
Heat exchanger	<p>Packing with casing</p> <p>Gland packing for valve</p> <p>Lagging material and insulation</p>
Valve	<p>Gland packing with valve, sheet packing with piping flange</p> <p>Gasket with flange of high pressure and/or high</p>

	temperature
Pipe, duct	Lagging material and insulation
Tank (fuel tank, hot water, tank, condenser), other equipments (fuel strainer, lubricant oil strainer)	Lagging material and insulation
Electric equipment	Insulation material
Ceiling, floor and wall in accommodation area	Ceiling, floor, wall
Fire door	Packing, construction and insulation of the fire door
Inert gas system	Packing for casing, etc.
Air-conditioning system	Sheet packing, lagging material for piping and flexible joint
Miscellaneous	Ropes Thermal insulating materials Fire shields/fire proofing Space/duct insulation Electrical cable materials Brake linings Floor tiles/deck underlay Steam/water/vent flange gaskets Adhesives/mastics/fillers Sound damping Moulded plastic products Sealing putty Shaft/valve packing Electrical bulkhead penetration packing Circuit breaker arc chutes Pipe hanger inserts Weld shop protectors/burn covers Fire-fighting blankets/clothing/equipment Concrete ballast

The list above is taken from IMO Resolution MEPC.197(62), Appendix 5, paragraph 2.2.2.1.

Annex 2. Sample format for asbestos-free declaration

Declaration of Conformity

Asbestos Free Construction in accordance with SOLAS Regulation III/3-5

This is to declare that;

(name of shipyard) has constructed the following ship in accordance with SOLAS Regulation II-1/3-5 and that therefore the ship does not contain asbestos:

Name of Ship: _____

Distinctive number or letters: _____

Port of Registry: _____

IMO Number: _____

Hull Construction Number: _____

Date on which keel was laid or
ship was at a similar stage of construction: _____

Date of delivery: _____

This Declaration is based upon the following Requirements and procedures of the shipyard

SOLAS Regulation II-I/3-5, New Installation of Asbestos

IMO MSC.1/Circ.1379

ISO 9001 (if applicable)

ISO 30007 (if applicable)

IMO MSC.1/Circ.1426

Other shipyard relevant internal procedures (to be listed):

Place and date : _____

Shipyard's representative

(Name, position, title) _____

Annex 3. IACS UI SC 249 (Corr.1)

**SC
249**

(Oct
2011)
(Corr.1
Apr
2012)

**Implementation of SOLAS II-1, Regulation 3-5
and MSC.1/Circ.1379****SOLAS Chapter II-1, Regulation 3-5**

“From 1 January 2011, for all ships, new installation of materials which contain asbestos shall be prohibited.”

MSC.1/Circ.1379

“In the context of this regulation, new installation of materials containing asbestos means any new physical installation on board. Any material purchased prior to 1 January 2011 being kept in the ship's store or in the shipyard for a ship under construction, should not be permitted to be installed after 1 January 2011 as a working part.”

Unified Interpretations**SOLAS II-1, Regulation 3-5**

1. Verification that “*new installation of materials which contain asbestos*” under SOLAS II-1/3-5 is not made on ships requires the Recognized Organization to review asbestos-free declarations and supporting documentation, for the structure, machinery, electrical installations and equipment covered by the SOLAS Convention, which is to be provided to the Recognized Organization by shipyards, repair yards, and equipment manufacturers for:

- new construction (keel laid, or at a similar stage of construction, on or after 1 July 2012);
- conversions (contract date for the conversion or, in the absence of a contract, the date on which the work identifiable with the specific conversion begins) on or after 1 July 2012;

NOTE:

This UI is to be implemented by IACS Societies as soon as possible, but not later than 1 July 2012.

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MSC.1/Circ.1379

2. The phrase “*new installation of materials containing asbestos*” in MSC.1/Circ.1379:
 - means that material used (i.e., repaired, replaced, maintained or added) as a working part of the ship as per Annex 1 which is installed on or after 1 July 2012 is required to be documented with an asbestos-free declaration. The Recognized Organization will, in consultation with the Company’s nominated person responsible to control asbestos-containing material onboard as per the Safety Management System in accordance with MSC/Circ.1045, audit this documentation during annual safety construction and safety equipment surveys; and
 - does not preclude the stowage of material which contains asbestos onboard (e.g., spare parts existing on board as of 1 July 2012).
3. The phrase “*should not be permitted to be installed after 1 January 2011 as a working part*” in MSC.1/Circ.1379 means that replacement, maintenance or addition of materials used for the structure, machinery, electrical installations and equipment covered by the SOLAS Convention which contain asbestos is prohibited.

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Annex 1

Structure and/or equipment	Component
Propeller shafting	Packing with low pressure hydraulic piping flange Packing with casing Clutch Brake lining Synthetic stern tubes
Diesel engine	Packing with piping flange Lagging material for fuel pipe Lagging material for exhaust pipe Lagging material turbocharger
Turbine engine	Lagging material for casing Packing with flange of piping and valve for steam line, exhaust line and drain line Lagging material for piping and valve of steam line, exhaust line and drain line
Boiler	Insulation in combustion chamber Packing for casing door Lagging material for exhaust pipe Gasket for manhole Gasket for hand hole Gas shield packing for soot blower and other hole Packing with flange of piping and valve for steam line, exhaust line, fuel line and drain line Lagging material for piping and valve of steam line, exhaust line, fuel line and drain line
Exhaust gas economizer	Packing for casing door Packing with manhole Packing with hand hole Gas shield packing for soot blower Packing with flange of piping and valve for steam line, exhaust line, fuel line and drain line Lagging material for piping and valve of steam line, exhaust line, fuel line and drain line
Incinerator	Packing for casing door Packing with manhole Packing with hand hole Lagging material for exhaust pipe
Auxiliary machinery (pump, compressor, oil purifier, crane)	Packing for casing door and valve Gland packing Brake lining
Heat exchanger	Packing with casing Gland packing for valve Lagging material and insulation

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Valve	Gland packing with valve, sheet packing with piping flange Gasket with flange of high pressure and/or high temperature
Pipe, duct	Lagging material and insulation
Tank (fuel tank, hot water, tank, condenser), other equipments (fuel strainer, lubricant oil strainer)	Lagging material and insulation
Electric equipment	Insulation material
Ceiling, floor and wall in accommodation area	Ceiling, floor, wall
Fire door	Packing, construction and insulation of the fire door
Inert gas system	Packing for casing, etc.
Air-conditioning system	Sheet packing, lagging material for piping and flexible joint
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The list above is taken from IMO Resolution MEPC.197(62), Appendix 5, paragraph 2.2.2.1.

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