

# The Ship Recycling Convention

## Object of Establishment and Amendment

Rules for Ship Recycling (Establish)  
Guidance for Ship Recycling (Establish)  
Regulations for the Classification and Registry of Ships  
Regulations for the Issue of Statutory Certificates  
Guidance for the Classification and Registry of Ships

## Reason for Establishment and Amendment

At the 42nd session of the IMO's Marine Environment Protection Committee (MEPC42) held in November 1998, problems related to worker safety and environmental pollution during ship recycling activities were pointed out. This led the IMO to deliberate on ways of ensuring the smooth removal of ships from service as well as the occupational and environmental safety associated with such removals. As a result of its discussions, the IMO adopted the *Hong Kong International Convention for the Safe and Environmentally Sound Recycling of Ships, 2009* (hereinafter referred to as the "Ship Recycling Convention") in May 2009 for the purpose of improving working conditions of associated personnel and protecting the surrounding environment. Furthermore, several guidelines were also developed to facilitate the smooth implementation of the Ship Recycling Convention with respect to matters such as methods for the preparation of hazardous material inventories, methods for safe and environmentally sound ship recycling and so on.

Since the Ship Recycling Convention will formally enter into force on 26 June 2025, the Society is, at this time, adding a new part to its Rules and Guidance, the "Rules and Guidance for Ship Recycling", in order to incorporate the requirements of Ship Recycling Convention and relevant IMO guidelines prior to their taking effect. In addition, requirements in other parts of the Rules and Guidance related to the establishment of this new part are also amended accordingly.

## Outline of Establishment and Amendment

The main contents of this establishment and amendment are as follows:

- (1) Establish the "Rules and Guidance for Ship Recycling" to incorporate the requirements of the Ship Recycling Convention and relevant IMO guidelines into the Society's Rules and Guidance.
- (2) Amend other relevant parts of the Rules and Guidance as needed.

## Effective Date and Application

Effective date of this establishment and amendment are 26 June 2025.

ID: DX24-13

An asterisk (\*) after the title of a requirement indicates that there is also relevant information in the corresponding Guidance.

Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p align="center"><b><u>RULES FOR THE SHIP RECYCLING</u></b></p> <p align="center"><b><u>Part 1 GENERAL</u></b></p> <p align="center"><b><u>Chapter 1 General</u></b></p> <p><b><u>1.1 General</u></b></p> <p><b><u>1.1.1 Application</u></b></p> <p><u>1 The Rules for Ship Recycling (hereinafter referred to as “the Rules”) apply to the ships classed or to be classed with NIPPON KAIJI KYOKAI (hereinafter referred to as “the Society”) under Chapter 2 of the Regulations for the Classification and Registry of Ships.</u></p> <p><u>2 Notwithstanding -1 above, the Rules do not apply to the following ships:</u></p> <p>(1) <u>Ships less than 500 gross tonnage;</u></p> <p>(2) <u>Ships operating throughout their life only in waters subject to the sovereignty or jurisdiction of the State whose flag the ship is entitled to fly; and</u></p> <p>(3) <u>Ships owned or operated by a Party and used only on government non-commercial service.</u></p> <p><u>3 In addition to the requirements of the Rules, relevant requirements in the Rules for the Survey and Construction of Steel Ships also apply unless otherwise specified.</u></p>	<p align="center"><b>(Establishment)</b></p>	<p>- Convention ARTICLE 3 Para.1.1</p> <p>- Convention ARTICLE 3 Para.2 and Para.3</p>



### Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p>(2) <u>“Competent Authority(ies)” means a governmental authority or authorities designated by a Party as responsible, within specified geographical area(s) or area(s) of expertise, for duties related to Ship Recycling Facilities operating within the jurisdiction of that Party as specified in the Ship Recycling Convention.</u></p>		- Convention ARTICLE 2 Para.3
<p>(3) <u>“Ship” means a vessel of any type whatsoever operating or having operated in the marine environment and includes submersibles, floating craft, floating platforms, self-elevating platforms, Floating Storage Units (FSUs), and Floating Production Storage and Offloading Units (FPSOs), including a vessel stripped of equipment or being towed.</u></p>		- Convention ARTICLE 2 Para.7
<p>(4) <u>“Gross tonnage” means the gross tonnage (GT) calculated in accordance with the tonnage measurement regulations contained in annex I to the International Convention on Tonnage Measurement of Ships, 1969, or any successor convention.</u></p>		- Convention ARTICLE 2 Para.8
<p>(5) <u>“Hazardous Material” means any material or substance which is liable to create hazards to human health and/or the environment.</u></p>		- Convention ARTICLE 2 Para.9
<p>(6) <u>“Ship Recycling” means the activity of complete or partial dismantling of a ship at a Ship Recycling Facility in order to recover components and materials for reprocessing and re-use, whilst taking care of hazardous and other materials, and includes associated operations such as storage and treatment of components and materials on site, but not their</u></p>		- Convention ARTICLE 2 Para.10

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>further processing or disposal in separate facilities.</u></p> <p>(7) <u>“Ship Recycling Facility” means a defined area that is a site, yard or facility used for the recycling of ships.</u></p> <p>(8) <u>“Recycling Company” means the owner of the Ship Recycling Facility or any other organization or person who has assumed the responsibility for operation of the Ship Recycling activity from the owner of the Ship Recycling Facility and who on assuming such responsibility has agreed to take over all duties and responsibilities imposed by the Ship Recycling Convention.</u></p> <p>(9) <u>“Competent person” means a person with suitable qualifications, training, and sufficient knowledge, experience and skill, for the performance of the specific work. Specifically, a competent person may be a trained worker or a managerial employee capable of recognizing and evaluating occupational hazards, risks, and employee exposure to potentially Hazardous Materials or unsafe conditions in a Ship Recycling Facility, and who is capable of specifying the necessary protection and precautions to be taken to eliminate or reduce those hazards, risks, or exposures. The Competent Authority may define appropriate criteria for the designation of such persons and may determine the duties to be assigned to them.</u></p> <p>(10) <u>“Employer” means a natural or legal person that employs one or more workers engaged in Ship Recycling.</u></p>		<p>- Convention ARTICLE 2 Para.11</p> <p>- Convention ARTICLE 2 Para.12</p> <p>- Convention ANNEX Reg.1.1</p> <p>- Convention ANNEX Reg.1.2</p>

### Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p>(11) <u>“New ship” means a ship:</u></p> <p style="padding-left: 20px;">(a) <u>For which the building contract is placed on or after 26 July 2025 (the entry into force of Ship Recycling Convention); or</u></p> <p style="padding-left: 20px;">(b) <u>In the absence of a building contract, the keel of which is laid or which is at a similar stage of construction on or 26 December 2025; or</u></p> <p style="padding-left: 20px;">(c) <u>The delivery of which is on or after 26 December 2027.</u></p> <p>(12) <u>“Existing ship” means a ship which is not a new ship specified in (11).</u></p> <p>(13) <u>“New installation” means the installation of systems, equipment, insulation, or other material on a ship after 26 July 2025.</u></p> <p>(14) <u>“Safe-for-entry” means a space that meets the following criteria:</u></p> <p style="padding-left: 20px;">(a) <u>The oxygen content of the atmosphere and the concentration of flammable vapours are within safe limits.</u></p> <p style="padding-left: 20px;">(b) <u>Any toxic materials in the atmosphere are within permissible concentrations.</u></p> <p style="padding-left: 20px;">(c) <u>Any residues or materials associated with the work authorized by the competent person will not produce uncontrolled release of toxic materials or an unsafe concentration of flammable vapours under existing atmospheric conditions while maintained as directed.</u></p> <p>(15) <u>“Safe-for-hot-work” means a space that meets the following criteria:</u></p> <p style="padding-left: 20px;">(a) <u>A safe, non-explosive condition, including</u></p>		<p>- Convention ANNEX Reg.1.4</p> <p>- Convention ANNEX Reg.1.3</p> <p>- Convention ANNEX Reg.1.5</p> <p>- Convention ANNEX Reg.1.6</p> <p>- Convention ANNEX Reg.1 Para.7</p>

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>gas-free status, exists for the use of electric arc or gas welding equipment, cutting or burning equipment or other forms of naked flame, as well as heating, grinding, or spark generating operations.</u></p> <p><u>(b) Safe-for-entry requirements of (14) above are met.</u></p> <p><u>(c) Existing atmospheric conditions will not change as a result of the hot work.</u></p> <p><u>(d) All adjacent spaces have been cleaned, or inerted, or treated sufficiently to prevent the start or spread of fire.</u></p> <p><u>(16) “Shipowner” means the person or persons or company registered as the owner of the ship or, in the absence of registration, the person or persons or company owning the ship or any other organization or person such as the manager, or the bareboat charterer, who has assumed the responsibility for operation of the ship from the owner of the ship. This term also includes those who have ownership of the ship for a limited period pending its sale or handing over to a Ship Recycling Facility.</u></p> <p><u>(17) “Site Inspection” means an inspection of the Ship Recycling Facility confirming the condition described by the verified documentation.</u></p> <p><u>(18) “Statement of Completion” means a confirmatory statement issued by the Ship Recycling Facility that the Ship Recycling has been completed in accordance with the Ship Recycle Convention.</u></p> <p><u>(19) “Tanker” means an oil tanker as defined in</u></p>		<p>- Convention ANNEX Reg.1.8</p> <p>- Convention ANNEX Reg.1 Para.9</p> <p>- Convention ANNEX Reg.1 Para.10</p> <p>- Convention ANNEX Reg.1 Para.11</p> <p>-MEPC.379(80) Para.1.3, Para.3.1</p>

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>MARPOL annex I or an NLS tanker as defined in MARPOL annex II.</u></p> <p>(20) <u>“Worker” means any person who performs work, either regularly or temporarily, in the context of an employment relationship including contractor personnel.</u></p> <p>(21) <u>The “Inventory of Hazardous Materials” (IHM) is to provide ship-specific information on the actual Hazardous Materials present on board to protect the health and safety of workers and to prevent environmental pollution at Ship Recycling Facilities. The IHM is consist of the following three parts:</u>  <u>Part I: Materials contained in ship structure or equipment</u>  <u>Part II: Operationally generated wastes</u>  <u>Part III: Stores</u></p> <p>(22) <u>“Material Declaration” (MD) means a declaration indicating the materials a product (such as machinery, equipment, material, paint, etc.) supplied by a supplier contains and also the amount of such materials.</u></p> <p>(23) <u>“Supplier’s Declaration of Conformity” (SDoC) means a declaration by the responsible supplier stating that the product being supplied has been manufactured or sold in accordance with the requirements of the Rules.</u></p> <p>(24) <u>“Exemption” means materials that do not need to be listed on the IHM, even if such materials or items exceed the IHM threshold values.</u></p> <p>(25) <u>“Fixed” means the conditions that equipment or</u></p>		



**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>materials are securely fitted with the ship, such as by welding or with bolts, riveted or cemented, and used at their position, including electrical cables and gaskets.</u></p> <p>(26) <u>“Homogeneous material” means a material of uniform composition throughout that cannot be mechanically disjointed into different materials, meaning that the materials cannot, in principle, be separated by mechanical actions such as unscrewing, cutting, crushing, grinding and abrasive processes.</u></p> <p>(27) <u>“Loosely fitted equipment” means equipment or materials present on board the ship by the conditions other than “fixed”, such as fire extinguishers, distress flares and lifebuoys.</u></p> <p>(28) <u>“Product” means machinery, equipment, materials and applied coatings on board a ship.</u></p> <p>(29) <u>“Supplier” means a company which provides products; it may be a manufacturer, trader or agency.</u></p> <p>(30) <u>“Supply chain” means the series of entities involved in the supply and purchase of materials and goods, from raw materials to final product.</u></p> <p>(31) <u>“Threshold value” is defined as the concentration value in homogeneous materials.</u></p> <p>(32) <u>“Document of Authorization to conduct Ship Recycling” (DASR) means a document certifying that the Ship Recycling Facility has implemented management systems, procedures and techniques in accordance with the requirements to be followed. DASR includes restrictions on the capability of Ship Recycling Facilities, such as the size of ship the</u></p>		

### Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p><u>facility can safely handle and the control of Hazardous Materials.</u></p> <p>(33) <u>“Ship Recycling Facility Plan” (SRFP) means a plan developed by Ship Recycling Facilities for worker safety and training, protection of human health and the environment, roles and responsibilities of personnel, emergency preparedness and response and systems for monitoring, reporting and record-keeping.</u></p> <p><b><u>1.2.2 Abbreviations</u></b>  <u>For the purpose of the Rules, the following abbreviations apply:</u></p> <p>(1) <u>IMO: International Maritime Organization</u></p> <p>(2) <u>MEPC: Marine Environment Protection Committee of the IMO</u></p>		<p>- Convention ARTICLE 2                  Para.4</p> <p>- Convention ARTICLE 2                  Para.6</p>

Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p align="center"><b><u>Part 2 REQUIREMENTS FOR THE INVENTORY OF HAZARDOUS MATERIALS</u></b></p> <p align="center"><b><u>Chapter 1 GENERAL</u></b></p> <p><b><u>1.1 General</u></b></p> <p><b><u>1.1.1 Objectives of the Inventory of Hazardous Materials</u></b>  <u>The objectives of the IHM are to provide ship-specific information on the actual Hazardous Materials present on board, in order to protect health and safety and to prevent environmental pollution at Ship Recycling Facilities. This information will be used by the Ship Recycling Facilities to decide how to manage the types and amounts of materials identified in the IHM.</u></p> <p><b><u>1.1.2 Application</u></b>  <u>This part applies to IHM prepared by relevant stakeholders (shipyards, equipment suppliers, repairers, shipowners and ship management companies) for the ships specified in 1.1.1-1(1), Part 1.</u></p>		<p>- MEPC.379(80) Para1.3</p> <p>- MEPC.379(80) Para1.2</p>

Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p align="center"><b><u>Chapter 2 THE INVENTORY OF HAZARDOUS MATERIALS</u></b></p> <p><b><u>2.1 The Inventory of Hazardous Materials</u></b></p> <p><b><u>2.1.1 Components of the Inventory of Hazardous Materials</u></b>  <u>The IHM consists of the following three components.</u>  <u>(1) Part I: Materials contained in ship structure or equipment</u>  <u>(2) Part II: Operationally generated wastes</u>  <u>(3) Part III: Stores</u></p> <p><b><u>2.1.2 Materials be Listed in the Inventory of Hazardous Materials</u></b>  <u>1 The following (1) to (4) materials are to be listed on the IHM.</u>  <u>(1) Hazardous Materials listed in Table 2.1.2-1 for which are installation and use are prohibited or restricted.</u>  <u>(2) Hazardous Materials listed in Table 2.1.2-2 for which listing on the IHM is required when exceeding specified thresholds.</u>  <u>(3) Potentially Hazardous Materials listed in Table 2.1.2-3.</u>  <u>(4) Regular consumable goods which potentially contain Hazardous Materials listed in Table 2.1.2-4.</u>  <u>2 Materials specified in -1(1) and -1(2) above are to be listed in Part I of the IHM, materials specified in -1(3) above are to be listed in Part II and Part III of the IHM and</u></p>		<p>- MEPC379(80) Para.3.1</p> <p>- MEPC379(80) Para.3.2.1</p> <p>- MEPC379(80) Para.3.2.2</p>

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>materials specified in -1(4) above are to be listed in Part III of the IHM</u></p> <p><u>3 For loosely fitted equipment, there is no need to list this in Part I of the IHM. Such equipment which remains on board when the ship is recycled is to be listed in Part III.</u></p> <p><u>4 Those batteries containing lead acid or other Hazardous Materials that are fixed in place are to be listed in Part I of the IHM. Batteries that are loosely fitted, which include consumer batteries and batteries in stores, are to be listed in Part III of the IHM.</u></p> <p><u>5 Similar materials or items that contain Hazardous Materials that potentially exceed the threshold value can be listed together (not individually) on the IHM with their general location and approximate amount specified there (hereinafter referred to as “bulk listing”).</u></p>		<p>- MEPC379(80) Para.3.2.3</p> <p>- MEPC379(80) Para.3.2.4</p> <p>- MEPC379(80) Para.3.2.5</p>

## Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks	
<b>Table 2.1.2-1 Hazardous Materials which Installation and Use is Restricted or Prohibited</b>		- 条約 APPENDIX 1 - MEPC.379(80) APPENDIX 1 Table A	
<u>Materials</u>	<u>Threshold value</u>		
<u>Asbestos</u>	<u>0.1 % <sup>(1)</sup></u>		
<u>Polychlorinated biphenyls (PCB)</u>	<u>50 mg/kg <sup>(2)</sup></u>		
<u>Ozone-depleting substances</u>	<u>Chlorofluorocarbons (CFC)</u>		no threshold value <sup>(3)</sup>
	<u>Halons</u>		
	<u>Other fully halogenated CFC</u>		
	<u>Carbon tetrachloride</u>		
	<u>1,1,1-Trichloroethane (Methyl chloroform)</u>		
	<u>Hydrochlorofluorocarbons</u>		
	<u>Hydrobromofluorocarbons</u>		
	<u>Methyl bromide</u>		
	<u>Bromochloromethane</u>		
<u>Anti-fouling systems containing organotin compounds as a biocide</u>	<u>2,500 mg total tin /kg</u>		
<u>Anti-fouling systems containing cybutryne</u>	<u>1,000 mg/kg <sup>(4)</sup></u>		
<u>Notes:</u> (1) For all ships, new installation of materials which contain asbestos are to be prohibited. (2) For all ships, new installation of materials which contain polychlorinated biphenyls (PCB) are to be prohibited. (3) Unintentional trace contaminants should not be listed in the MD and in the IHM. (4) When samples are directly taken from the hull, average values of cybutryne are not to be above 1,000 mg of cybutryne per kilogram of dry paint.			

## Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<b>Table 2.1.2-2 Hazardous Materials which are to be Listed in the IHM when Exceeding the Threshold.</b>		- 条約 APPENDIX 2 - MEPC.379(80) APPENDIX 1 Table B
<u>Materials</u>	<u>Threshold value</u>	
<u>Cadmium and cadmium compounds</u>	<u>100 mg/kg</u>	
<u>Hexavalent chromium and hexavalent chromium compounds</u>	<u>1,000 mg/kg</u>	
<u>Lead and lead compounds</u>	<u>1,000 mg/kg</u>	
<u>Mercury and mercury compounds</u>	<u>1,000 mg/kg</u>	
<u>Polybrominated biphenyl (PBB)</u>	<u>50 mg/kg</u>	
<u>Polybrominated diphenyl ethers (PBDE)</u>	<u>1,000 mg/kg</u>	
<u>Polychlorinated naphthalenes (more than 3 chlorine atoms)</u>	<u>50 mg/kg</u>	
<u>Radioactive substances</u>	<u>No threshold value <sup>(1)</sup></u>	
<u>Certain short-chain chlorinated paraffins (alkanes, C10-C13, chloro)</u>	<u>1 %</u>	
<p><u>Note:</u></p> <p>(1) <u>All radioactive sources should be included in the MD and in the IHM. Radioactive source means radioactive material permanently sealed in a capsule or closely bonded and in a solid form that is used as a source of radiation. This includes consumer products and industrial gauges with radioactive materials. Examples are listed in Annex 2-1.</u></p>		

## Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended		Original			Remarks	
<b>Table 2.1.2-3 Potentially Hazardous Materials</b>					- MEPC.379(80) APPENDIX 1 Table C	
Properties		Materials	Inventory			
			<u>Part I</u>	<u>Part II</u>		<u>Part III</u>
<u>Liquid</u>	<u>Oiliness</u>	<u>Kerosene</u>				<u>○</u>
		<u>White spirit</u>				<u>○</u>
		<u>Lubricating oil</u>				<u>○</u>
		<u>Hydraulic oil</u>				<u>○</u>
		<u>Anti-seize compounds</u>				<u>○</u>
		<u>Fuel additive</u>				<u>○</u>
		<u>Engine coolant additives</u>				<u>○</u>
		<u>Antifreeze fluids</u>				<u>○</u>
		<u>Boiler and feed water treatment and test re-agents</u>				<u>○</u>
		<u>De-ionizer regenerating chemicals</u>				<u>○</u>
		<u>Evaporator dosing and descaling acids</u>				<u>○</u>
		<u>Paint stabilizers/rust stabilizers</u>				<u>○</u>
		<u>Solvents/thinners</u>				<u>○</u>
		<u>Paints</u>				<u>○</u>
		<u>Chemical refrigerants</u>				<u>○</u>
<u>Battery electrolyte</u>			<u>○</u>			
<u>Alcohol, methylated spirits</u>			<u>○</u>			
<u>Gas</u>	<u>Explosives / inflammables</u>	<u>Acetylene</u>			<u>○</u>	
		<u>Propane</u>			<u>○</u>	
		<u>Butane</u>			<u>○</u>	
		<u>Oxygen</u>			<u>○</u>	
	<u>Green house Gasses</u>	<u>CO2</u>			<u>○</u>	
		<u>Perfluorocarbons (PFC)</u>			<u>○</u>	
		<u>Methane</u>			<u>○</u>	
		<u>Hydrofluorocarbon (HFC)</u>			<u>○</u>	
		<u>Nitrous oxide (N<sub>2</sub>O)</u>			<u>○</u>	
		<u>Sulphur hexafluoride (SF<sub>6</sub>)</u>			<u>○</u>	
<u>Liquid</u>	<u>Oiliness</u>	<u>Bunkers: fuel oil</u>			<u>○</u>	



**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended		Original			Remarks		
		<u>Grease</u>		<u>○</u>			
		<u>Waste oil (sludge)</u>		<u>○</u>			
		<u>Bilge and/or wastewater generated by the after-treatment systems fitted on machineries</u>		<u>○</u>			
		<u>Oily liquid cargo tank residues</u>		<u>○</u>			
			<u>Ballast water</u>			<u>○</u>	
			<u>Raw sewage</u>			<u>○</u>	
			<u>Treated sewage</u>			<u>○</u>	
			<u>Non-oily liquid cargo residues</u>			<u>○</u>	
		<u>Gas</u>	<u>Explosives / inflammables</u>	<u>Fuel gas</u>			<u>○</u>
				<u>Dry cargo residues</u>			<u>○</u>
	<u>Solid</u>		<u>Medical waste/infectious waste</u>			<u>○</u>	
			<u>Incinerator ash *1</u>			<u>○</u>	
			<u>Garbage *2</u>			<u>○</u>	
			<u>Fuel tank residues</u>			<u>○</u>	
			<u>Oily solid cargo tank residues</u>				
			<u>Oily or chemical contaminated rags</u>			<u>○</u>	
			<u>Batteries (incl. lead acid batteries)</u>			<u>○</u>	
			<u>Pesticides/insecticide sprays</u>			<u>○</u>	
			<u>Extinguishers</u>			<u>○</u>	
			<u>Chemical cleaner (incl. electrical equipment cleaner, carbon remover)</u>			<u>○</u>	
		<u>Detergent/bleacher (could be a liquid)</u>		<u>○</u>			
		<u>Miscellaneous medicines</u>		<u>○</u>			
		<u>Fire-fighting clothing and personal protective equipment</u>		<u>○</u>			
		<u>Dry tank residues</u>		<u>○</u>			
		<u>Cargo residues</u>		<u>○</u>			
		<u>Spare parts which contain materials listed in Table 1.2.1-1 or Table 1.2.1-2.</u>		<u>○</u>			
<u>Notes:</u>							
<u>*1 Incinerator ash is classified separately because it may include hazardous substances or heavy metals.</u>							

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks																			
<p>*2 <u>“Garbage” means all food wastes, domestic wastess, operational wastes, plastics, cargo residues, incinerator ashes, cooking oil, fishing gear, and animal carcasses generated during the normal operation of the ship and liable to be continuously or periodically disposed.</u></p>																					
<p align="center"><u>Table 2.1.2-4 Regular Consumable Goods Potentially Containing Hazardous Materials</u> <sup>*1</sup></p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th rowspan="2">Properties</th> <th colspan="3">Inventory</th> </tr> <tr> <th>Part I</th> <th>Part II</th> <th>Part III</th> </tr> </thead> <tbody> <tr> <td>Electrical and electronic equipment</td> <td></td> <td></td> <td align="center">○</td> </tr> <tr> <td>Lighting equipment</td> <td></td> <td></td> <td align="center">○</td> </tr> <tr> <td>Non-ship-specific furniture, interior and similar equipment</td> <td></td> <td></td> <td align="center">○</td> </tr> </tbody> </table> <p>Note: *1 This table does not include ship-specific equipment integral to ship operations, which has to be listed in part I of the IHM.</p>			Properties	Inventory			Part I	Part II	Part III	Electrical and electronic equipment			○	Lighting equipment			○	Non-ship-specific furniture, interior and similar equipment			○
Properties	Inventory																				
	Part I	Part II	Part III																		
Electrical and electronic equipment			○																		
Lighting equipment			○																		
Non-ship-specific furniture, interior and similar equipment			○																		
<p><b><u>2.1.3 Exemptions - Materials not Required to be Listed in the Inventory</u></b></p> <p><b><u>1</u></b> Materials listed in Table 2.1.2-2 that are inherent in solid metals or metal alloys, such as steels, aluminium, brasses, bronzes, plating and solder, provided they are used in general construction, such as hull, superstructure, pipes or housings for equipment and machinery, are not required to be listed in the IHM.</p> <p><b><u>2</u></b> Although electrical and electronic equipment is required to be listed in the IHM, the amount of Hazardous Materials potentially contained in printed wiring boards (printed circuit boards) installed in the equipment does not need to be reported in the IHM.</p>		<p align="center">- MEPC.379(80) APPENDIX 1 Table D</p> <p align="center">- MEPC.379(80) Para.3.3.1</p> <p align="center">- MEPC.379(80) Para.3.3.2</p>																			

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><b><u>2.1.4 Standard Format of the Inventory of Hazardous Materials</u></b>  <u>The IHM is to be developed on the basis of the standard format set out in Annex 2-2.</u></p> <p><b><u>2.1.5 Revision of Threshold Values</u></b>  <u>Revised threshold values in Table 2.1.2-1 and Table 2.1.2-2 are to be used for IHMs developed or updated after the adoption of the revised values and need not be applied to existing IHMs and IHMs under development. However, when materials are added to the IHM, such as during maintenance, the revised threshold values are to be applied and recorded in the IHM.</u></p> <p align="center"><b><u>Chapter 3 REQUIREMENTS FOR DEVELOPMENT OF THE INVENTORY</u></b></p> <p><b><u>3.1 Development of Part I of the Inventory of Hazardous Materials for New Ships</u></b></p> <p><b><u>3.1.1 General</u></b>  <u>1 Part I of the IHM for new ships is to be developed at the design and construction stage.</u>  <u>2 During the development of the IHM (Part I), the presence of materials listed in Table 2.1.2-1 are to be checked and confirmed; the quantity and location of materials listed in Table 2.1.2-1 are to be listed in Part I of the IHM. If such materials are used in compliance with the Convention, they are to be listed in Part I of the IHM. Any</u></p>		<p>- MEPC.379(80) Para.3.4</p> <p>- MEPC.379(80) Para.3.5</p> <p>- MEPC.379(80) Para.4.1.1</p> <p>- MEPC.379(80) Para.4.1.2</p>

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>spare parts containing materials listed in Table 2.1.2-1 are required to be listed in part III of the IHM.</u></p> <p><u>3 If materials listed in Table 2.1.2-2 are present in products above the threshold values provided in Table 2.1.2-2, the quantity and location of the products and the contents of the materials present in them are to be listed in Part I of the IHM. Any spare parts containing materials listed in Table 2.1.2-2 are required to be listed in Part III of the IHM.</u></p> <p><u>4 The checking of materials as provided in paragraphs -2 and -3 above is to be based on the MD furnished by the suppliers in the shipbuilding supply chain (e.g. equipment suppliers, parts suppliers, material suppliers).</u></p> <p><u>5 For new ships, Part I of the IHM is to be developed based on Annex 2-3.</u></p> <p><b><u>3.2 Development of Part I of the Inventory of Hazardous Materials for Existing Ships</u></b></p> <p><b><u>3.2.1 General</u></b></p> <p><u>1 In order to achieve comparable results for existing ships with respect to Part I of the IHM, the following procedure is to be followed:</u></p> <p><u>(1) collection of necessary information;</u>  <u>(2) assessment of collected information;</u>  <u>(3) preparation of visual/sampling check plan;</u>  <u>(4) onboard visual check and sampling check; and</u>  <u>(5) preparation of Part I of the IHM and related documentation.</u></p> <p><u>2 The determination of Hazardous Materials present on</u></p>		<p>- MEPC.379(80) Para.4.1.3</p> <p>- MEPC.379(80) Para.4.1.4</p> <p>- MEPC.379(80) Para.4.2</p> <p>- MEPC.379(80)</p>

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>board existing ships should, as far as practicable, be conducted as prescribed for new ships. In cases where a ship already possessing the IHM is converted or repaired, or new equipment, systems etc. is fitted accompanying the changes in the IHM, the preparation of changed locations in the IHM is to be according to section 3.1.</u></p> <p><u>3 The procedures described in this section are to be carried out by the shipowner, who may draw upon expert assistance. Such an expert or expert party should not be the same as the person or organization authorized by the Administration to approve the IHM.</u></p> <p><u>4 The IHM is to be developed based on Fig. 3.2.1.</u></p> <p><u>5 For existing ships, Part I of the IHM is to be developed based on Annex 2-4.</u></p>		<p>Para.4.2.2</p> <p>- MEPC.379(80) Para.4.2.3</p> <p>- MEPC.379(80) Para.4.2.4</p> <p>- MEPC.379(80) Para.4.2.4</p>

## Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<b>Fig. 3.2.1 Flow Diagram for Developing Part I of the IHM for Existing Ships</b>		
	<p>*1: Documents may include any certificates, manuals, ship's plans, drawings, technical specifications and information from sister and/or similar ships.</p> <p>*2: The assessment is to cover all materials listed in Table 2.1.2-1; the materials listed in Table 2.1.2-2 are to be listed as far as practicable. It is impossible to assess all equipment and areas including those which are assumed not to contain hazardous materials described above. Using analysis of available documents based on knowledge and experience, it must be made clear which equipment and/or area are to be included in the scope of the assessment.</p> <p>*3: Equipment, system and/or areas which cannot be specified as containing materials listed in Table 2.1.2-1, Table 2.1.2-2, Table 2.1.2-3 and Table 2.1.2-4, on the basis of documents can be listed in the List of equipment, system and/or area classed as "potentially containing hazardous material" without the sampling check. The prerequisite for this classification is a comprehensible justification of the conclusion, such as the impossibility to conduct samplings without compromising ship safety and operational efficiently.</p> <p>*4: "Sampling check" means sampling and identification of hazardous material contained in the equipment, systems and/or areas, by laboratory analysis. The sampling check is to be applied where the presence of prohibited and restricted hazardous material is assumed but cannot be recognized by analysis of the available documentation.</p> <p>*5: When equipment, systems and/or areas of a ship are not accessible for visual check or sampling check, this equipment, system and/or area is classified as "potentially containing hazardous material".</p>	<p>- MEPC.379(80) APPENDIX 4</p>
<p><b>3.2.2 Collection of Necessary Information</b></p> <p><b>1</b> The shipowner is to identify, research, request and procure all reasonably available documentation regarding the ship.</p> <p><b>2</b> Information that will be useful includes maintenance, conversion and repair documents; certificates, manuals, ship's plans, drawings and technical specifications; product information data sheets (such as MD); and Hazardous</p>		<p>- MEPC.379(80) Para.4.2.5</p>

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>Material inventories or recycling information from sister ships.</u></p> <p><u>3 Potential sources of information could include previous shipowners, the shipbuilder, historical societies, classification society records and Ship Recycling Facilities with experience working with similar ships.</u></p> <p><b><u>3.2.3 Assessment of Collected Information</u></b></p> <p><u>The information collected in 3.2.2 is to be assessed. The assessment is to cover all materials listed in Table 2.1.2-1; materials listed in Table 2.1.2-2 are to be assessed as far as practicable. The results of the assessment are to be reflected in the visual/sampling check plan.</u></p> <p><b><u>3.2.4 Preparation of Visual/Sampling Check Plan</u></b></p> <p><u>1 To specify the materials listed in Table 2.1.2-1, a visual/sampling check plan is to be prepared taking into account the collated information and any appropriate expertise.</u></p> <p><u>2 The visual/sampling check plan is to be based on the following three lists.</u></p> <p><u>(1) List of equipment, system and/or area for visual check (any equipment, system and/or area specified regarding the presence of the materials listed in Table 2.1.2-1 by document analysis are to be entered in the List of equipment, system and/or area for visual check)</u></p> <p><u>(2) List of equipment, system and/or area for sampling check (any equipment, system and/or area which cannot be specified regarding the presence of the materials listed in Table 2.1.2-1 by document or</u></p>		<p>- MEPC.379(80) Para.4.2.6</p> <p>- MEPC.379(80) Para.4.2.7</p>

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>visual analysis are to be entered in the List of equipment, system and/or area as requiring sampling check. A sampling check is the taking of samples to identify the presence or absence of Hazardous Material contained in the equipment, systems and/or areas, by suitable and generally accepted methods such as laboratory analysis)</u></p> <p><u>(3) List of equipment, system and/or area classed as “potentially containing hazardous material: PCHM” (any equipment, system and/or area which cannot be specified regarding the presence of the materials listed in Table 2.1.2-1 by document analysis may be entered in the List of equipment, system and/or area classed as “PCHM” without the sampling check. The prerequisite for this classification is a comprehensible justification such as the impossibility of conducting sampling without compromising the safety of the ship and its operational efficiency).</u></p> <p><u>3 Visual/sampling checkpoints are to be all points where:</u></p> <p><u>(1) the presence of materials to be considered for the IHM Part I as listed in Table 2.1.2-1 is likely;</u></p> <p><u>(2) the documentation is not specific; or</u></p> <p><u>(3) materials of uncertain composition were used.</u></p> <p><b><u>3.2.5 Onboard Visual and Sampling Check</u></b></p> <p><u>1 The onboard visual and sampling check is to be carried out in accordance with the visual and sampling check plan. When a sampling check is carried out, samples are to be taken and the sample points are to be clearly marked</u></p>		<p>- MEPC.379(80) Para.4.2.8</p>



## Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p><u>on the ship plan and the sample results are to be referenced. Materials of the same kind may be sampled in a representative manner. Such materials are to be checked to ensure that they are of the same kind. The sampling check is to be carried out drawing upon expert assistance.</u></p> <p><u>2 Any uncertainty regarding the presence of Hazardous Materials is to be clarified by a visual and sampling check. Checkpoints are to be documented in the ship’s plan and may be supported by photographs.</u></p> <p><u>3 If the equipment, system and/or area of the ship are not accessible for a visual check or sampling check, they are to be classified as “PCHM”. The prerequisite for such classification is to be the same prerequisite as in section 3.2.4. Any equipment, system and/or area classed as “PCHM” may be investigated or subjected to a sampling check at the request of the shipowner during a later survey (e.g. during repair, refit or conversion).</u></p> <p><b><u>3.2.6 Preparation of Part I of the Inventory of Hazardous Material and Related Documentation</u></b></p> <p><u>If any equipment, system or area is classed as either “containing hazardous material” or “PCHM”, their approximate quantity and location are to be listed in Part I of the IHM. These two categories are to be indicated separately in the “Remarks” column of the IHM.</u></p> <p><b><u>3.2.7 Testing Methods</u></b></p> <p><u>1 Samples may be tested by a variety of methods. “Indicative” or “field tests” may be used in the following case:</u></p>		<p>- MEPC.379(80) Para.4.2.9</p> <p>- MEPC.379(80) Para.4.2.10</p>

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>(1) the likelihood of a hazard is high;</u>  <u>(2) the test is expected to indicate that the hazard exists;</u>  <u>and</u>  <u>(3) the sample is being tested by “specific testing” to show that the hazard is present.</u></p> <p><u>2 Indicative or field tests are quick, inexpensive and useful on board the ship or on-site, but they cannot be accurately reproduced or repeated, and cannot identify the hazard specifically, and therefore cannot be relied upon except as “indicators”.</u></p> <p><u>3 In all other cases, and in order to avoid dispute, “specific testing” is to be used. Specific tests are repeatable, reliable and can demonstrate definitively whether a hazard exists or not. They will also provide a known type of the hazard. The methods indicated are found to be qualitatively and quantitatively appropriate and only testing methods to the same effect can be used. Specific tests are to be carried out by a suitably accredited laboratory, working to international standards (e.g. ISO 17025) or equivalent, which will provide a written report that can be relied upon by all parties.</u></p> <p><u>4 Specific test methods are provided in Appendix 2-5.</u></p> <p><b><u>3.2.8 Diagram of the Location of Hazardous Materials On Board a Ship</u></b></p> <p><u>Preparation of a diagram showing the location of the materials listed in Table 2.1.2-1 is recommended in order to help Ship Recycling Facilities gain a visual understanding of the IHM.</u></p>		<p>- MEPC.379(80)            Para.4.2.11</p>

Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p><b><u>3.3 Maintaining and Updating Part I of the Inventory of Hazardous Material during Operations</u></b></p> <p><b><u>3.3.1 General</u></b>  <u>Part I of the IHM is to be appropriately maintained and updated, especially after any repair or conversion or sale of a ship. Maintenance procedures taking into account 4.2 are to be established and information regarding them is to be made available for reference on board.</u></p> <p><b><u>3.3.2 Updating of Part I of the Inventory of Hazardous Materials in the Event of New Installation</u></b>  <u>If any machinery or equipment is added to, removed or replaced or the hull coating is renewed, Part I of the IHM is to be updated according to the requirements for new ships as stipulated in 3.1.1 (except for 3.1.1-1). Updating is not required if identical parts or coatings are installed or applied.</u></p> <p><b><u>3.3.3 Continuity of Part I of the Inventory of Hazardous Material</u></b>  <u>Part I of the IHM is to belong to the ship and the continuity and conformity of the information it contains should be confirmed, especially if the flag, owner or operator of the ship changes.</u></p>		<p>- MEPC.379(80) Para.4.3</p> <p>- MEPC.379(80) Para.4.3.1</p> <p>- MEPC.379(80) Para.4.3.2</p> <p>- MEPC.379(80) Para.4.3.3</p>

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><b><u>3.4 Development of Part II of the Inventory of Hazardous Material (Operationally Generated Waste)</u></b></p> <p><b><u>3.4.1 General</u></b>  <u>Once the decision to recycle a ship has been taken, Part II of the IHM is to be developed before the final survey, taking into account that a ship destined to be recycled shall conduct operations in the period prior to entering the Ship Recycling Facility in a manner that minimizes the amount of cargo residues, fuel oil and wastes remaining on board.</u></p> <p><b><u>3.4.2 Operationally Generated Wastes to be Listed in the Inventory of Hazardous Material</u></b>  <u>If the wastes listed in Part II of the IHM provided in Table 2.1.2-3 (Potentially hazardous items) are intended for delivery with the ship to a Ship Recycling Facility, the quantity of the operationally generated wastes are to be estimated and their approximate quantities and locations are to be listed in Part II of the IHM.</u></p> <p><b><u>3.5 Development of Part III of the Inventory of Hazardous Materials (Stores)</u></b></p> <p><b><u>3.5.1 General</u></b>  <u>Once the decision to recycle has been taken, Part III of the IHM is to be developed before the final survey, taking into account the fact that a ship destined to be recycled shall minimize the wastes remaining on board. Each item listed in Part III are to correspond to the ship's operations during its</u></p>		<p>- MEPC.379(80) Para.4.4</p> <p>- MEPC.379(80) Para.4.4.1</p> <p>- MEPC.379(80) Para.4.4.2</p> <p>- MEPC.379(80) Para.4.5</p> <p>- MEPC.379(80) Para.4.5.1</p>

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>last voyage.</u></p> <p><b><u>3.5.2 Stores to be Listed in the Inventory of Hazardous Materials</u></b></p> <p><u>If the stores to be listed in Part III of the IHM provided in Table 2.1.2-3 are to be delivered with the ship to a Ship Recycling Facility, the unit (e.g. capacity of cans and cylinders), quantity and location of the stores are to be listed in Part III of the IHM.</u></p> <p><b><u>3.5.3 Liquids and Gases Sealed in Ship’s Machinery and Equipment to be Listed in the Inventory of Hazardous Material</u></b></p> <p><u>If any liquids and gases listed in Table 2.1.2-3 are integral in machinery and equipment on board a ship, their approximate quantity and location are to be listed in Part III of the IHM. However, small amounts of lubricating oil, anti-seize compounds and grease which are applied to or injected into machinery and equipment to maintain normal performance do not fall within the scope of this provision. For subsequent completion of Part III of the IHM during the recycling preparation processes, the quantity of liquids and gases listed in Table 2.1.2-3 required for normal operation, including the related pipe system volumes, are to be prepared and documented at the design and construction stage. This information belongs to the ship, and continuity of this information are to be maintained if the flag, owner or operator of the ship changes.</u></p>		<p>- MEPC.379(80) Para.4.5.2</p> <p>- MEPC.379(80) Para.4.5.3</p>

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><b><u>3.5.4 Regular Consumable Goods to be Listed in the Inventory of Hazardous Materials</u></b></p> <p><u>Regular consumable goods, as provided in Table 2.1.2-4 are not to be listed in Part I or Part II but are to be listed in Part III of the IHM if they are to be delivered with the ship to a Ship Recycling Facility. A general description including the name of item (e.g. TV set), manufacturer, quantity and location are to be entered in Part III of the IHM. The check on materials provided for in 3.1.1-2 and -3 of these guidelines does not apply to regular consumable goods.</u></p> <p><b><u>3.6 Description of Location of Hazardous Materials On Board</u></b></p> <p><b><u>3.6.1 General</u></b></p> <p><u>The locations of Hazardous Materials on board are to be described and identified using the name of location (e.g. second floor of engine-room, bridge DK, APT, No.1 cargo tank, frame number) given in the plans (e.g. general arrangement, fire and safety plan, machinery arrangement or tank arrangement).</u></p> <p><b><u>3.7 Description of Approximate Quantity of Hazardous Materials</u></b></p> <p><b><u>3.7.1 General</u></b></p> <p><u>In order to identify the approximate quantity of Hazardous Materials, the standard unit used for Hazardous Materials are to be kg, unless other units (e.g. m<sup>3</sup> for materials of liquid or</u></p>		<p>- MEPC.379(80) Para.4.5.4</p> <p>- MEPC.379(80) Para.4.6</p> <p>- MEPC.379(80) Para.4.7</p>

Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p><u>gases, m<sup>2</sup> for materials used in floors or walls) are considered more appropriate. An approximate quantity should be rounded up to at least two significant figures.</u></p> <p align="center"><b><u>Chapter 4 REQUIREMENTS FOR ASCERTAINING THE CONFORMITY OF THE INVENTORY</u></b></p> <p><b><u>4.1 Design and Construction Stage</u></b></p> <p><u>The conformity of Part I of the IHM at the design and construction stage is to be ascertained by reference to the collected SDoC and the related MD collected from suppliers.</u></p> <p><b><u>4.2 Operational Stage</u></b></p> <p><u>Shipowners are to implement the following measures in order to ensure the conformity of part I of the IHM:</u></p> <p><u>(1) to designate a person as responsible for maintaining and updating the IHM (the designated person may be employed ashore or on board);</u></p> <p><u>(2) the designated person, in order to implement 3.3.2, is to establish and supervise a system to ensure the necessary updating of the IHM in the event of new installation;</u></p> <p><u>(3) to maintain the IHM including dates of changes or new deleted entries and the signature of the designated person; and</u></p> <p><u>(4) to provide related documents as required for the survey or sale of the ship.</u></p>		<p>- MEPC.379(80) Para.5</p> <p>- MEPC.379(80) Para.5.1</p> <p>- MEPC.379(80) Para.5.2</p>

Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p><b><u>Chapter 5 MATERIAL DECLARATION</u></b></p> <p><b><u>5.1 General</u></b></p> <p><u>Suppliers to the shipbuilding industry are to identify and declare whether or not the materials listed in Table 2.1.2-1 or Table 2.1.2-2 are present above the threshold value specified in those tables. However, this provision does not apply to chemicals which do not constitute a part of the finished product.</u></p> <p><b><u>5.2 Information Required in the Declaration</u></b></p> <p><b><u>1</u></b> At the following information is required in the <i>MD</i>:</p> <p><u>(1) date of declaration;</u></p> <p><u>(2) MD identification number;</u></p> <p><u>(3) supplier's name;</u></p> <p><u>(4) product name (common product name or name used by manufacturer);</u></p> <p><u>(5) product number (for identification by manufacturer);</u></p> <p><u>(6) declaration of whether or not the materials listed in Table 2.1.2-1 and Table 2.1.2-2 are present in the product above the threshold value stipulated the tables; and</u></p> <p><u>(7) mass of each constituent material listed in Table 2.1.2-1 and/or Table 2.1.2-2 if present above threshold value.</u></p> <p><b><u>2</u></b> An example of the <i>MD</i> is shown in Annex 2-6.</p>		<p>- MEPC.379(80) Para.6</p> <p>- MEPC.379(80) Para.6.1</p> <p>- MEPC.379(80) Para.6.2</p>



Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p><b><u>Chapter 6 SUPPLIER'S DECLARATION OF CONFORMITY</u></b></p> <p><b><u>6.1 Purpose and Scope</u></b></p> <p><u>1 The purpose of the SDoC is to provide assurance that the related MD conforms to 5.2, and to identify the responsible entity.</u></p> <p><u>2 The SDoC remains valid as long as the products are present on board.</u></p> <p><u>3 The supplier compiling the SDoC is to establish a company policy. The company policy on the management of the chemical substances in products which the supplier manufactures or sells is to cover:</u></p> <p><u>(1) Compliance with law</u>  <u>The regulations and requirements governing the management of chemical substances in products are to be clearly described in documents which are to be kept and maintained.</u></p> <p><u>(2) Obtaining of information on chemical substance content</u>  <u>In procuring raw materials for components and products, suppliers are to be selected following an evaluation, and the information on the chemical substances they supply are to be obtained.</u></p> <p><b><u>6.2 Contents and Format</u></b></p> <p><u>1 The SDoC is to contain the following:</u></p> <p><u>(1) unique identification number;</u></p>		<p>- MEPC.379(80) Para.7</p> <p>- MEPC.379(80) Para.7.1</p> <p>- MEPC.379(80) Para.7.2</p>

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p>(2) <u>name and contact address of the issuer;</u>                      (3) <u>identification of the subject of the Declaration of Conformity (e.g. name, type, model number, and/or other relevant supplementary information);</u>                      (4) <u>statement of conformity;</u>                      (5) <u>date and place of issue; and</u>                      (6) <u>signature (or equivalent sign of validation), name and function of the authorized persons acting on behalf of the issuer.</u></p> <p><b>2</b> <u>An example of the <i>SDoC</i> is shown in Annex 2-7.</u></p>		

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Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p align="center"><b><u>Part 3 REQUIREMENTS FOR SHIPS</u></b></p> <p align="center"><b><u>Chapter 1 GENERAL</u></b></p> <p><b><u>1.1 General</u></b></p> <p><b><u>1.1.1 Application</u></b>  <u>This part applies to the ships specified in 1.1.1-1(1), Part 1.</u></p> <p><b><u>1.1.2 Others</u></b>  <u>1 Ships are to be provided with measures to meet following (1) and (2):</u>  <u>(1) measures which prohibit or restrict the installation or use of Hazardous Materials listed in Table 1.1.2-1; and</u>  <u>(2) measures which prohibit or restrict the installation use of such materials on ships, while in ports, shipyards, ship repair yards, or offshore terminals.</u>  <u>2 The minimum list of items for the IHM is shown in Table 1.1.2-2.</u>  <u>3 Details of Table 1.1.2-1 and Table 1.1.2-2 and examples of CAS numbers are shown in Annex 3-1.</u></p>		<p>- Convention ARTICLE 3                  Para.1.1                  - MEPC.222(64)                  Para.1.3</p> <p>- Convention ANNEX Reg.4</p>

## Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<b>Table 1.1.2-1 Prohibited or Restricted Material</b>		
<u>Hazardous Material</u>	<u>Definitions</u>	<u>Control measures</u>
<u>Asbestos</u>	<u>Materials containing asbestos</u>	<u>For all ships, new installation of materials which contain asbestos shall be prohibited.</u>
<u>Ozone-depleting substances</u>	<u>Ozone-depleting substances means controlled substances defined in paragraph 4 of article 1 of the Montreal Protocol on Substances that Deplete the Ozone Layer, 1987, listed in annexes A,B,C or E to the said Protocol in force at the time of application or interpretation of this annex.</u> <u>Halon 1211 Bromochlorodifluoromethane</u> <u>Halon 1301 Bromotrifluoromethane</u> <u>Halon 2402 1,2-Dibromo-1,1,2,2-tetrafluoroethane (also known as Halon 114B2)</u> <u>CFC-11 Trichlorofluoromethane</u> <u>CFC-12 Dichlorodifluoromethane</u> <u>CFC-113 1,1,2-Trichloro-1,2,2-trifluoroethane</u> <u>CFC-114 1,2-Dichloro-1,1,2,2-tetrafluoroethane</u> <u>CFC-115 Chloropentafluoroethane</u>	<u>New installations which contain ozone-depleting substances shall be prohibited on all ships, except that new installations containing hydrochlorofluorocarbons (HCFC) are permitted until 1 January 2020.</u>
<u>Polychlorinated Biphenyls (PCB)</u>	<u>“Polychlorinated biphenyls” means aromatic compounds formed in such a manner that the hydrogen atoms on the biphenyl molecule (two benzene rings bonded together by a single carbon-carbon bond) may be replaced by up to ten chlorine atoms</u>	<u>For all ships, new installation of materials which contain Polychlorinated biphenyls shall be prohibited.</u>
<u>Anti-fouling compounds and systems</u>	<u>Anti-fouling compounds and systems regulated under annex I to the International Convention on the Control of Harmful Anti-fouling Systems on Ships, 2001 (AFS Convention) in force at the time of application or interpretation of the Rules.</u>	<ol style="list-style-type: none"> <li>1. <u>No ship may apply anti-fouling systems containing organotin compounds as a biocide or any other anti-fouling system whose application or use is prohibited by the AFS Convention.</u></li> <li>2. <u>No new ships or new installations on ships shall apply or employ anti-fouling compounds or systems in a manner inconsistent with the AFS Convention.</u></li> </ol>

- Convention  
APPENDIX 1

## Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks											
<p><b>Table 1.1.2-2 Minimum List of Items for the IHM</b></p> <table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Hazardous Materials</th> </tr> </thead> <tbody> <tr><td><u>Any Hazardous Materials listed in Table 1.1.2-1.</u></td></tr> <tr><td><u>Cadmium and Cadmium Compounds</u></td></tr> <tr><td><u>Hexavalent Chromium and Hexavalent Chromium Compounds</u></td></tr> <tr><td><u>Lead and Lead Compounds</u></td></tr> <tr><td><u>Mercury and Mercury Compounds</u></td></tr> <tr><td><u>Polybrominated Biphenyl (PBB)</u></td></tr> <tr><td><u>Polybrominated Diphenyl Ethers (PBDE)</u></td></tr> <tr><td><u>Polychlorinated Naphthalenes (more than 3 chlorine atoms)</u></td></tr> <tr><td><u>Radioactive Substances</u></td></tr> <tr><td><u>Certain Short-chain Chlorinated Paraffins (Alkanes, C10-C13, chloro)</u></td></tr> </tbody> </table>		Hazardous Materials	<u>Any Hazardous Materials listed in Table 1.1.2-1.</u>	<u>Cadmium and Cadmium Compounds</u>	<u>Hexavalent Chromium and Hexavalent Chromium Compounds</u>	<u>Lead and Lead Compounds</u>	<u>Mercury and Mercury Compounds</u>	<u>Polybrominated Biphenyl (PBB)</u>	<u>Polybrominated Diphenyl Ethers (PBDE)</u>	<u>Polychlorinated Naphthalenes (more than 3 chlorine atoms)</u>	<u>Radioactive Substances</u>	<u>Certain Short-chain Chlorinated Paraffins (Alkanes, C10-C13, chloro)</u>	<p style="text-align: right;">- Convention APPENDIX 2</p>
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<p><b><u>Chapter 2 SURVEY</u></b></p>													
<p><b><u>2.1 General</u></b></p>													
<p><b><u>2.1.1 Kind of Surveys</u></b></p>													
<p><u>Surveys are to be of the following kinds:</u></p>													
<p>(1) <u>Initial Surveys</u></p>													
<p style="padding-left: 20px;">(a) <u>Initial Surveys for new ships</u></p>													
<p style="padding-left: 20px;">(b) <u>Initial Surveys for existing ships</u></p>		<p>(1)- Convention ANNEX Reg.10.1.1</p>											
<p>(2) <u>Renewal Surveys</u></p>		<p>(2)- Convention ANNEX Reg.10.1.2</p>											
<p>(3) <u>Additional Surveys</u></p>		<p>(3)- Convention ANNEX Reg.10.1.3</p>											
<p>(4) <u>Final Surveys</u></p>		<p>(4)- Convention ANNEX Reg.10.1.4</p>											
<p>(5) <u>Unscheduled Surveys</u></p>													

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><b><u>2.1.2 Intervals of Surveys</u></b>  <u>Surveys are to be carried out in accordance with the following in -1 to -5 .</u></p> <p><b><u>1 Initial Surveys</u></b>  <u>(1) In the case of a new ship specified in 1.2.1(11), Part 1, an Initial Survey is to be carried out before the ship is put in service.</u>  <u>(2) In the case of an existing ship specified in 1.2.1(12), Part 1, an Initial Survey is to be conducted before the International Certificate on Inventory of Hazardous Materials is issued and not later than 25 June 2030.</u></p> <p><b><u>2 Renewal Surveys</u></b>  <u>Renewal Surveys are to be carried out at the intervals specified in 1.1.3-1(3)(a), Part B of the Rules for the Survey and Construction of Steel Ships.</u></p> <p><b><u>3 Additional Surveys</u></b>  <u>Additional Surveys are to be carried out on the following occasions at times other than Initial Surveys or Renewal Surveys. To implement such surveys, in lieu of the traditional ordinary surveys where a surveyor is in attendance, the Society may approve those survey methods which it considers to be appropriate.</u>  <u>(1) When replacement or significant repair of the structure, equipment, systems, fittings, arrangements or materials are carried out,</u>  <u>(2) Whenever the survey is considered necessary by the Society.</u></p> <p><b><u>4 Final Surveys</u></b>  <u>Final Surveys are to be conducted before a ship is taken</u></p>		<p>- Convention ANNEX Reg1.4, Reg5, Reg10.1.1</p> <p>- Convention ANNEX Reg.10.1.2</p> <p>- Convention ANNEX Reg.10.1.3</p> <p>- Convention ANNEX Reg.10.1.4</p>

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p>out of service and before the recycling of the ship has started.</p> <p><b>5</b> <u>Classed ships may be subject to Unscheduled Surveys when the confirmation of the status of the ship by survey is deemed necessary in cases where the Society considers the ship to be subject to 1.4-3, Conditions of Service for Classification of Ships and Registration of Installations.</u></p> <p><b>2.1.3</b> <u>Renewal Surveys Carried Out in Advance and Postponement</u></p> <p><b>1</b> <u>Renewal Surveys carried out in advance</u></p> <p>(1) <u>Renewal Surveys may be carried out in advance if requested by the shipowner, even if the time of the survey does not fall within its scheduled interval.</u></p> <p>(2) <u>When Renewal Surveys are carried out early and include items applicable to Additional Surveys, Additional Surveys are not carried out.</u></p> <p><b>2</b> <u>When Renewal Surveys are completed more than 3 month in advance, the completion date of said Renewal Survey is deemed to be the new implementation date of the Renewal Surveys specified in 2.1.2-2.</u></p> <p><b>3</b> <u>Postponement of Renewal Surveys</u>  <u>Renewal Surveys may be postponed as specified in the following (1) or (2) subject to the approval by the Society in advance.</u></p> <p>(1) <u>Maximum 3 months for the purpose of allowing the ship to complete its voyage to the port in which it is to be surveyed.</u></p> <p>(2) <u>Maximum 1 month for the ship engaged on short voyages.</u></p>		<p>- Convention ANNEX Reg.11.5</p> <p>- Convention ANNEX Reg.11.5</p> <p>- Convention ANNEX Reg.11.8</p> <p>- Convention ANNEX Reg.11.9</p>

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><b><u>2.1.4 Laid-up Ships</u></b></p> <p><u>1 Laid-up ships are not subject to Renewal Surveys. However, Additional Surveys may be carried out at the request of shipowners.</u></p> <p><u>2 When laid-up ships are about to be put into service, the following surveys and other surveys for specific matters which have been postponed due to being laid-up, if any, are to be carried out.</u></p> <p><u>(1) When the due date for any Renewal Survey designated before lay-up has not yet passed, surveys which equivalent to the Renewal Survey are to be carried out.</u></p> <p><u>(2) When the due date for any Renewal Survey designated before lay-up has already passed, surveys which are equivalent to the Renewal Survey are to be carried out.</u></p> <p><b><u>2.1.5 Preparation for Surveys and OtherMatters</u></b></p> <p><u>1 When a ship is to be surveyed in accordance with the Rules, it is the responsibility of shipowners to notify the surveyor of the place where they wish to undergo the survey. Moreover, the surveyor is to be advised of the survey a reasonable amount time in advance so that the survey can be carried out at the proper time.</u></p> <p><u>2 All such preparations as required for the Initial, Renewal and other surveys specified in this part as well as those which may be required by the surveyor in accordance with the provisions in this part are the responsibility of the shipowners or their representatives.</u></p>		



**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>3 Applicants for surveys are to arrange supervisors who are well conversant with all of the survey items required for the preparation of such surveys and who are able to provide all necessary assistance to the surveyor according to their requests during such surveys.</u></p> <p><u>4 Surveys may be suspended in cases where necessary preparations have not been made, any appropriate supervisor is not present, or the surveyor considers that the safe execution of the survey is not ensured.</u></p> <p><b><u>2.1.6 Documents to be Maintained On Board</u></b>  <u>At the completion of the surveys specified in 2.1.2, the surveyor is to confirm that the latest versions of the IHM is on board.</u></p> <p align="center"><b><u>Chapter 3 INITIAL SURVEYS</u></b></p> <p><b><u>3.1 General</u></b></p> <p><u>In Initial Surveys, Part I of the IHM is to be examined in detail in order to ascertain that it meets relevant requirements in Chapter 2.</u></p> <p><b><u>3.2 Initial Surveys for New Ships</u></b></p> <p><b><u>3.2.1 Submission of Plans and Documents for Reference</u></b></p> <p><u>1 For new ships intending to undergo Initial Surveys, the plans and documents specified in the following (1) to (3) are to be submitted to the Society for reference:</u></p>		<p>- Convention ANNEX Reg.5.1, Reg.5.2</p> <p>- Convention ANNEX Reg.10.1.1, Reg.5.1.2                      - MEPC.222(64) Para.3.1</p> <p>- MEPC.222(64) Para.3.1.1.3</p>

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p>(1) <u>Part I of the IHM</u></p> <p>(2) <u>MD and SDoC or documents that confirm the same</u></p> <p>(3) <u>Other documents deemed necessary by the Society</u></p> <p><b>2</b> <u>The documents specified in -1 above are to be submitted to the Society in accordance with the following (1) to (3) requirements.</u></p> <p>(1) <u>If paper drawings are submitted, two copies are to be submitted for use by the Society, plus the number of copies desired to be returned.</u></p> <p>(2) <u>If electronic drawings are submitted, they are to be submitted through the system designated by the Society.</u></p> <p>(3) <u>In cases other than those specified in (1) and (2) above, documents are to be submitted in a manner deemed appropriate by the Society.</u></p> <p><b>3.2.2 Inspections of Part I of the Inventory of Hazardous Materials</b></p> <p><u>At Initial Surveys for new ships, the following inspections are to be carried out through the checking the plans and documents specified in 3.2.1 and onboard visual inspections:</u></p> <p>(1) <u>Confirmation that Part I of the IHM identifies the Hazardous Materials contained in the ship structure and equipment, their location and approximate quantities.</u></p> <p>(2) <u>Confirmation that the IHM identifies the location of Hazardous Materials, is consistent with the arrangements, structure and equipment of the ship</u></p> <p>(3) <u>Other inspections deemed necessary by the Society.</u></p>		<p>- Convention ANNEX Reg.5.1</p> <p>- MEPC.222(64) Para.3.1.1.4</p>

Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p><b><u>3.3 Initial Survey for Existing Ships</u></b></p> <p><b><u>3.3.1 Submission of Plans and Documents for Reference</u></b></p> <p><u>1 For existing ships intending to undergo Initial Surveys, the plans and documents specified in the follows (1) and (2) are to be submitted to the Society for reference, in addition to the plans and documents specified in 3.2.1:</u></p> <p><u>(1) Visual/sampling check plan</u></p> <p><u>(2) Report of the visual/sampling check</u></p> <p><u>2 The visual/sampling check plan and Part I of the IHM of are to be prepared in accordance with 3.2, Part 2 by personnel with the requisite knowledge and experience to conduct the assigned task.</u></p> <p><b><u>3.3.2 Inspections of Part I of the Inventory of Hazardous Materials</u></b></p> <p><u>At Initial Surveys for existing ships, the following inspections are to be carried out by checking plans and documents specified in 3.3.1 and onboard visual inspection:</u></p> <p><u>(1) Confirmation that Part I of the IHM identifies the Hazardous Materials contained or potentially contained in the ship structure and equipment, their location and approximate quantities</u></p> <p><u>(2) Confirmation that classification as “potentially containing hazardous materials” is noted in the remarks column of the IHM</u></p> <p><u>(3) Confirmation that the IHM identifies the location of Hazardous Materials, is consistent with the arrangements, structure and equipment of the ship</u></p>		<p>- MEPC.222(64) Para.3.1.2.3, Para.3.1.2.4</p> <p>- Convention ANNEX Reg.5.1, Reg.5.2 - MEPC.222(64) Para.3.1.2.6</p>

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p>(4) <u>Other inspections deemed necessary by the Society</u></p> <p align="center"><b><u>Chapter 4 RENEWAL SURVEYS</u></b></p> <p><b><u>4.1 General</u></b></p> <p><u>In Renewal Surveys, Part I of the IHM is to be examined in order to ascertain that it is being appropriately maintained and updated, and it meets the relevant requirements in each part of the Rules.</u></p> <p><b><u>4.2 Submission of Plans and Documents for Reference</u></b></p> <p><u>For ships intending to undergo Renewal Surveys, the plans and documents specified in the following (1) to (3) are to be submitted to the Society for reference:</u></p> <p>(1) <u>The latest version of Part I of the IHM</u>            (2) <u>MD and SDoC or documents that confirm the same, regarding any change, replacement or significant repair of structure, equipment, systems, fittings, arrangements and material since the last survey</u>            (3) <u>Other documents deemed necessary by the Society</u></p> <p><b><u>4.3 Inspections of Part I of the Inventory of Hazardous Materials</u></b></p> <p><u>At Renewal Surveys, the following inspections are to be carried out by checking plans and documents specified in 4.2 and onboard visual inspection:</u></p> <p>(1) <u>Confirmation that Part I of the IHM is being appropriately maintained and updated.</u></p>		<p>- Convention ANNEX Reg.10.1.2            - Convention ANNEX Reg.5.3            - MEPC.222(64) Para.3.2             - MEPC.222(64) Para.3.2.3             - Convention ANNEX Reg.5.3            - MEPC.222(64) Para.3.2.4</p>

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p>(2) <u>Confirmation that the IHM identifies the location of Hazardous Materials, is consistent with the arrangements, structure and equipment of the ship.</u></p> <p>(3) <u>When equipment, systems or areas previously classed as “<i>potentially containing hazardous materials</i>” are deleted from Part I of the IHM, confirmation that the decision to delete is clearly based on the belief that the equipment, system or area in question contains no Hazardous Materials.</u></p> <p>(4) <u>Other inspections deemed necessary by the Society.</u></p> <p><b><u>Chapter 5      ADDITIONAL SURVEYS</u></b></p> <p><b><u>5.1    General</u></b></p> <p><u>In Additional Surveys, Part I of the IHM is to be examined in order to ascertain that it is being appropriately maintained and updated after change, replacement or significant repair of the structure, equipment, systems, fittings, arrangements and material which has an impact on the IHM.</u></p> <p><b><u>5.2    Submission of Plans and Documents for Reference</u></b></p> <p><u>For ships intending to undergo Additional Surveys, the plans and documents specified in the following (1) to (3) are to be submitted to the Society for reference:</u></p> <p>(1) <u>The latest version of Part I of the IHM</u></p> <p>(2) <u>MD and SDoC or documents that confirm the same, regarding any change, replacement or significant</u></p>		<p>- Convention ANNEX Reg.10.1.3</p> <p>- Convention ANNEX Reg.5.3 MEPC.222(64) Para.3.3</p> <p>- MEPC.222(64) Para.3.3.3</p>



**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>appropriately developed, maintained and they meet relevant requirements in each part of the Rules.</u></p> <p><b><u>6.2 Submission of Plans and Documents for Reference</u></b></p> <p><u>For ships intending to undergo Final Surveys, the plans and documents specified in the following (1) and (4) are to be submitted to the Society for reference:</u></p> <p>(1) <u>The latest version of Part I of the IHM</u>                      (2) <u>MD and SDoC or documents that confirm the same, regarding any change, replacement or significant repair of structure, equipment, systems, fittings, arrangements and material since the last survey</u>                      (3) <u>Part II of the IHM</u>                      (4) <u>Part III of the IHM</u>                      (5) <u>The Ship Recycling Plan (SRP) approved by Competent Authority(ies)</u>                      (6) <u>A copy of the DASR</u></p> <p><b><u>6.3 Survey Items</u></b></p> <p><u>At Additional Surveys, the following inspections are to be carried out:</u></p> <p>(1) <u>Confirmation that the Part I of the IHM is being appropriately maintained and updated to reflect changes in ship structure and equipment.</u>                      (2) <u>Confirmation that the Parts II and III of the IHM identifies the Hazardous Materials contained in the ship structure and equipment, their location and approximate quantities.</u>                      (3) <u>Confirmation that the Ship Recycling Plan properly</u></p>		<p>MEPC.222(64) Para.3.4</p> <p>- MEPC.222(64) Para.3.4.3</p> <p>- MEPC.222(64) Para.3.4.5.1</p>

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>reflects the information contained in the IHM and contains information concerning the establishment, maintenance and monitoring of safe-for-entry and safe-for-hot-work conditions.</u></p> <p>(4) <u>Confirmation that the Ship Recycling Facility where the ship is to be recycled holds a valid <i>DASR</i>.</u></p> <p>(5) <u>When equipment, systems or areas previously classed as “<i>PHCM</i>” are deleted form Part I of the IHM, confirmation that the decision to deletion is clearly based on the belief that the equipment, system and/or area in question contain no Hazardous Materials.</u></p> <p>(6) <u>Other inspections deemed necessary by the Society.</u></p>		<p>- MEPC.222(64) Para.3.4.5.2</p> <p>- MEPC.222(64) Para.3.4.5.3</p> <p>- MEPC.222(64) Para.3.4.5.4</p>
<p><b><u>Chapter 7 UNSCHEDULED SURVEYS</u></b></p> <p><b><u>7.1 General</u></b></p> <p><u>At Unscheduled Surveys, investigations, examinations or tests are to be carried out to the satisfaction of the Society’s surveyor with respect to the matters concerned.</u></p> <p><b><u>Chapter 8 PREPARATION FOR SHIP RECYCLING</u></b></p> <p><b><u>8.1 General</u></b></p> <p><u>Ships destined to be recycled are to comply with the following (1) to (6).</u></p>		<p>- Convention ANNEX Part.B Reg.8, Reg.9</p> <p>- Convention ANNEX Reg.8</p>



**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>(1) Ships are to be recycled at Ship Recycling Facilities that are as follows:</u></p> <p><u>(a) to they have has a <i>DASR</i>; and</u></p> <p><u>(b) to fully authorized to undertake all the Ship Recycling which the Ship Recycling Plan (<i>SRP</i>) specifies to be conducted by the identified Ship Recycling Facility(ies).</u></p> <p><u>(2) Ships are to conduct operations in the period prior to entering the Ship Recycling Facility in order to minimize the amount of cargo residues, remaining fuel oil, and wastes remaining on board.</u></p> <p><u>(3) In the case of a tanker, ships are to arrive at the Ship Recycling Facility with cargo tanks and pump room(s) in a condition that is ready for certification as Safe-for-entry, or Safe-for-hot-work, or both, according to national laws, regulations and policies of the Party under whose jurisdiction the Ship Recycling Facility operates.</u></p> <p><u>(4) Ships are to provide to the Ship Recycling Facility all available information relating to the ship for the development of the Ship Recycling Plan.</u></p> <p><u>(5) Ships are to complete the IHM.</u></p> <p><u>(6) Ships are to be certified as ready for recycling by the Administration or organization recognized by it, prior to any recycling activity taking place.</u></p>		

Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p align="center"><b><u>Part 4 REPORTING REQUIREMENTS</u></b></p> <p align="center"><b><u>Chapter 1 GENERAL</u></b></p> <p><b><u>1.1 Information and Reporting Requirements</u></b></p> <p><u>1 A shipowner is to notify the Administration in due time and in writing of the intention to recycle a ship in order to enable the Administration to prepare for the survey and certification required by the Rules.</u></p> <p><u>2 When the ship destined to be recycled has acquired the International Ready for Recycling Certificate, the Ship Recycling Facility are to report to its the Competent Authority(ies) the planned start of the Ship Recycling. The report is to be in accordance with the reporting format in the Rules and shall at least include a copy of the International Ready for Recycling Certificate. Recycling of the ship shall not start prior to the submission of the report.</u></p> <p><b><u>1.2 Reporting upon Completion</u></b></p> <p><u>When the partial or complete recycling of a ship is completed in accordance with the Rules, a Statement of Completion is to be issued by the Ship Recycling Facility and reported to its Competent Authority(ies). The Statement is to be issued within 14 days of the date of partial or completed Ship Recycling in accordance with the Ship Recycling Plan (SRP) and shall include a report on incidents and accidents damaging human health and/or the environment, if any.</u></p>		<p>- Convention ANNEX Reg.24.1</p> <p>- Convention ANNEX Reg.24.3</p> <p>- Convention ANNEX Reg.25</p>

Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p><b><u>ANNEX 2-1 EXAMPLES OF RADIOACTIVE SOURCES</u></b></p> <p><u>The following list contains examples of radioactive sources that should be included in the IHM, regardless of the number, the amount of radioactivity or the type of radionuclide.</u></p> <p><u>Examples of consumer products with radioactive materials</u></p> <p><u>Ionization chamber smoke detectors (typical radionuclides <sup>241</sup>Am; <sup>226</sup>Ra)</u></p> <p><u>Instruments/signs containing gaseous tritium light sources (<sup>3</sup>H)</u></p> <p><u>Instruments/signs containing radioactive painting (typical radionuclide <sup>226</sup>Ra)</u></p> <p><u>High intensity discharge lamps (typical radionuclides <sup>85</sup>Kr; <sup>232</sup>Th)</u></p> <p><u>Radioactive lighting rods (typical radionuclides <sup>241</sup>Am; <sup>226</sup>Ra)</u></p> <p><u>Examples of industrial gauges with radioactive materials</u></p> <p><u>Radioactive level gauges</u></p> <p><u>Radioactive dredger gauges *</u></p> <p><u>Radioactive conveyor gauges *</u></p> <p><u>Radioactive spinning pipe gauges *</u></p> <p><u>*: Typical radionuclides: <sup>241</sup>Am; <sup>241</sup>Am/Be; <sup>252</sup>Cf; <sup>244</sup>Cm; <sup>60</sup>Co; <sup>137</sup>Cs; <sup>153</sup>Gd; <sup>192</sup>Ir; <sup>147</sup>Pm; <sup>238</sup>Pu; <sup>239</sup>Pu/Be; <sup>226</sup>Ra; <sup>75</sup>Sr; <sup>90</sup>Sr (<sup>90</sup>Y); <sup>170</sup>Tm; <sup>169</sup>Yb.</u></p>		<p>MEPC.379(80) APPENDIX 10</p>

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended				Original			Remarks																																																																						
<p><b><u>ANNEX 2-2 STANDARD FORMAT OF THE INVENTORY OF HAZARDOUS MATERIALS</u></b></p> <p><u>Part / Hazardous materials contained in the ship's structure and equipment</u></p> <p><u>I-1 - Paints and Coating Systems Containing Materials Listed in Table 2.1.2-1 and Table 2.1.2-2 of Part 2 of the Rules</u></p> <table border="1"> <thead> <tr> <th>No.</th> <th>Application of paint</th> <th>Name of paint</th> <th>Location</th> <th>Materials</th> <th colspan="2">Approx. quantity</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Anti-drumming compound</td> <td>Primer, XX Co., xx primer #300</td> <td>Hull Part</td> <td>Lead</td> <td>35.00</td> <td>kg</td> <td></td> </tr> <tr> <td>2</td> <td>Antifouling</td> <td>xx Co. xx coat #100</td> <td>Underwater parts</td> <td>TBT</td> <td>120.00</td> <td>kg</td> <td></td> </tr> </tbody> </table> <p><u>I-2 - Equipment and Machinery Containing Materials Listed in Table 2.1.2-1 and Table 2.1.2-2 of Part 2 of the Rules</u></p> <table border="1"> <thead> <tr> <th>No.</th> <th>Name of equipment and machinery</th> <th>Location</th> <th>Materials</th> <th>Parts where used</th> <th colspan="2">Approx. quantity</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Switch board</td> <td>Engine control room</td> <td>Cadmium Mercury</td> <td>Housing coating Heat gauge</td> <td>0.02</td> <td>kg</td> <td>Less than 0.01kg</td> </tr> <tr> <td><del>2</del></td> <td><del>Diesel Engine, xx Co., xx #150</del></td> <td><del>Engine room</del></td> <td><del>Lead</del></td> <td><del>Starter for blower</del></td> <td><del>0.02</del></td> <td><del>kg</del></td> <td></td> </tr> <tr> <td>3</td> <td>Diesel Engine, xx Co., xx #200</td> <td>Engine room</td> <td>Lead</td> <td>Starter for blower</td> <td>0.01</td> <td>kg</td> <td>Revised by XXX on Oct., xx 2008 (revoking No.2)</td> </tr> <tr> <td>4</td> <td>Diesel Generator (x3)</td> <td>Engine room</td> <td>Lead</td> <td>Ingredient of copper compounds</td> <td>0.01</td> <td>kg</td> <td></td> </tr> <tr> <td>5</td> <td>Radioactive level gauge</td> <td>No.1 Cargo tank</td> <td>Radioactive substances</td> <td>Gauge</td> <td>5 (1.8E+11)</td> <td>Ci (Bq)</td> <td>Radionuclides: <sup>60</sup>Co</td> </tr> </tbody> </table>				No.	Application of paint	Name of paint	Location	Materials	Approx. quantity		Remarks	1	Anti-drumming compound	Primer, XX Co., xx primer #300	Hull Part	Lead	35.00	kg		2	Antifouling	xx Co. xx coat #100	Underwater parts	TBT	120.00	kg		No.	Name of equipment and machinery	Location	Materials	Parts where used	Approx. quantity		Remarks	1	Switch board	Engine control room	Cadmium Mercury	Housing coating Heat gauge	0.02	kg	Less than 0.01kg	<del>2</del>	<del>Diesel Engine, xx Co., xx #150</del>	<del>Engine room</del>	<del>Lead</del>	<del>Starter for blower</del>	<del>0.02</del>	<del>kg</del>		3	Diesel Engine, xx Co., xx #200	Engine room	Lead	Starter for blower	0.01	kg	Revised by XXX on Oct., xx 2008 (revoking No.2)	4	Diesel Generator (x3)	Engine room	Lead	Ingredient of copper compounds	0.01	kg		5	Radioactive level gauge	No.1 Cargo tank	Radioactive substances	Gauge	5 (1.8E+11)	Ci (Bq)	Radionuclides: <sup>60</sup> Co		MEPC.379(80) APPENDIX 2
No.	Application of paint	Name of paint	Location	Materials	Approx. quantity		Remarks																																																																						
1	Anti-drumming compound	Primer, XX Co., xx primer #300	Hull Part	Lead	35.00	kg																																																																							
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### Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks				
<b>I-3 - Structure and Hull Containing Materials Listed in Table 2.1.2-1 and Table 2.1.2-2 of Part 2 of the Rules</b>						
No.	<u>Name of structural element</u>	<u>Location</u>	<u>Materials</u>	<u>Parts where used</u>	<u>Approx. quantity</u>	<u>Remarks</u>
1	Wall panel	Accommodation	Asbestos	Insulation	2500.00 <i>kg</i>	
2	Wall insulation	Engine control room	Lead	Perforated plate	0.01 <i>kg</i>	Cover of insulation material
			Asbestos	Fire protection	25.00 <i>kg</i>	Under perforated plates
 <b>Part II Operationally generated waste</b>						
<b>Part II Operationally Generated Waste</b>						
No.	<u>Location *</u>	<u>Name of Item and detail of the item</u>	<u>Approx. quantity</u>		<u>Remarks</u>	
1	Garbage locker	Garbage (food waste)	35.00	<i>kg</i>		
2	Bilge tank	Bilgewater	15.00	<i>m<sup>3</sup></i>		
3	No.1 cargo hold	Dry cargo residues (iron ore)	110.00	<i>kg</i>		
4	No.2 cargo hold	Waste oil (sludge) (crude)	120.00	<i>kg</i>		
5	No.1 ballast tank	Ballast water	2,500.00	<i>m<sup>3</sup></i>		
		Sediments	250.00	<i>kg</i>		
<u>Note:</u>						
* The location of a part II or part III item is to be entered in order based on its location, from a lower level to an upper level and from a fore part to an aft part. The location of part I items is recommended to be described similarly, as far as practicable.						
 <b>Part III Stores</b>						

## Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended				Original				Remarks
<b>III-1 - Stores</b>								
No.	Location *1	Name of Item	Unit quantity	Figure	Approx. quantity	Remarks *2		
1	<u>No.1 fuel oil tank</u>	<u>Fuel oil (heavy fuel oil)</u>	-	-	100.00	<i>m<sup>3</sup></i>		
2	<u>CO2 room</u>	<u>CO2</u>	100.00	50	5,000.00	<i>kg</i>		
3	<u>Workshop</u>	<u>Propane</u>	20.00	10	200.00	<i>kg</i>		
4	<u>Medicine locker</u>	<u>Miscellaneous medicines</u>	-	-	-		<u>Details are shown in the attached list.</u>	
5	<u>Paint stores</u>	<u>Paint, xx Co., #600</u>	20.00	5	100.00	<i>kg</i>		
<p>Notes:</p> <p>*1 The location of a part <i>II</i> or part <i>III</i> item is to be entered in order based on its location, from a lower level to an upper level and from a fore part to an aft part. The location of part <i>I</i> items is recommended to be described similarly, as far as practicable.</p> <p>*2 In column "Remarks" for part <i>III</i> items, if Hazardous Materials are integrated in products, the approximate amount of the contents is to be shown as far as possible.</p>								
<b>III-2 – Liquids Sealed in Ship’s Machinery and Equipment</b>								
No.	Type of liquids	Name of machinery or equipment	Location	Approx. quantity	Remarks			
1	<u>Hydraulic oil</u>	<u>Deck crane hydraulic oil system</u>	<u>Upper deck</u>	15.00	<i>m<sup>3</sup></i>			
		<u>Deck machinery hydraulic oil system</u>	<u>Upper deck and bosun store</u>	200.00	<i>m<sup>3</sup></i>			
		<u>Steering gear hydraulic oil system</u>	<u>Steering gear room</u>	0.55	<i>m<sup>3</sup></i>			
2	<u>Lubricating oil</u>	<u>Main engine system</u>	<u>Engine room</u>	0.45	<i>m<sup>3</sup></i>			
3	<u>Boiler water treatment</u>	<u>Boiler</u>	<u>Engine room</u>	0.20	<i>m<sup>3</sup></i>			
<b>III-3 – Gases Sealed in Ship’s Machinery and Equipment</b>								
No.	Type of gases	Name of machinery or equipment	Location	Approx. quantity	Remarks			
1	<u>HFC</u>	<u>AC System</u>	<u>AC room</u>	100.00	<i>kg</i>			
2	<u>HFC</u>	<u>Refrigerated provision chamber machine</u>	<u>AC room</u>	50.00	<i>kg</i>			

### Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks															
<b>III-4 – Regular Consumable Goods Potentially Containing Hazardous Materials</b>																	
<table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr> <th style="width: 5%; text-align: center;">No.</th> <th style="width: 25%; text-align: center;">Location *1</th> <th style="width: 30%; text-align: center;">Name of Item</th> <th style="width: 10%; text-align: center;">Quantity</th> <th style="width: 30%; text-align: center;">Remarks</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">Accommodation</td> <td style="text-align: center;">Refrigerators</td> <td style="text-align: center;">1</td> <td></td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">Accommodation</td> <td style="text-align: center;">Personal computers</td> <td style="text-align: center;">2</td> <td></td> </tr> </tbody> </table>			No.	Location *1	Name of Item	Quantity	Remarks	1	Accommodation	Refrigerators	1		2	Accommodation	Personal computers	2	
No.	Location *1	Name of Item	Quantity	Remarks													
1	Accommodation	Refrigerators	1														
2	Accommodation	Personal computers	2														
<p><u>Note:</u></p> <p>*1 The location of a part II or part III item should be entered in order based on its location, from a lower level to an upper level and from a fore part to an aft part. The location of part I items is recommended to be described similarly, as far as practicable.</p>																	

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Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p style="text-align: center;"><b><u>ANNEX 2-3 EXAMPLE OF THE DEVELOPMENT PROCESS FOR PART I OF THE INVENTORY OF HAZARDOUS MATERIALS FOR NEW SHIPS</u></b></p> <p><b><u>An1 General</u></b></p> <p><b><u>An1.1 General</u></b>  <u>This annex has been developed to facilitate understanding of the development process for Part I of the IHM for new ships.</u></p> <p><b><u>An2 Development Flow for Part I of the Inventory of Hazardous Materials</u></b></p> <p><u>Part I of the IHM is to be developed using the following three steps. However, the order of these steps is flexible and can be changed depending on the schedule of shipbuilding.</u></p> <p>(1) <u>collection of Hazardous Materials information</u>  (2) <u>utilization of Hazardous Materials information</u>  (3) <u>preparation of the IHM (by filling out standard format)</u></p> <p><b><u>An3 Collection of Hazardous Materials Information</u></b></p> <p><b><u>An3.1 Data-collection Process for Hazardous Materials</u></b>  <u>MD and SDoC for products from suppliers (tier 1 suppliers) are to be requested and collected by the</u></p>		<p>- MEPC.379(80) APPENDIX 3</p> <p>- MEPC.379(80) APPENDIX 3 Para.1</p> <p>- MEPC.379(80) APPENDIX 3 Para.2</p> <p>- MEPC.379(80) APPENDIX 3 Para.3</p>



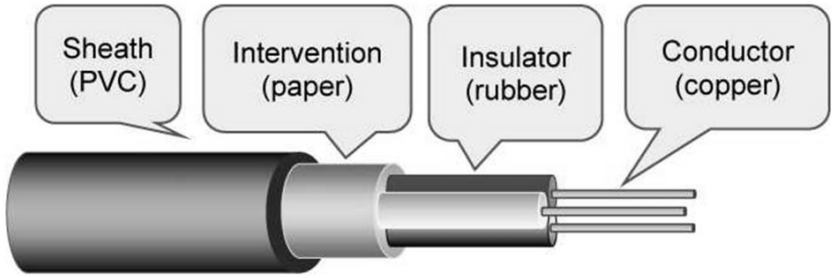
## Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p><u>shipbuilding yard. Tier 1 suppliers may request from their suppliers (tier 2 suppliers) the relevant information if they cannot develop the MD based on the information available. Thus the collection of data on Hazardous Materials may involve the entire shipbuilding supply chain (Fig. An3.1).</u></p>	<p style="text-align: center;">Fig. An3.1 Process of MD (and SDoC) Collection Showing Involvement of Supply Chain</p>	<p>- MEPC.379(80) APPENDIX 3 Figure 1</p>
<p><b><u>An3.2 Declaration of Hazardous Materials</u></b></p> <p><b><u>An3.2.1 General</u></b></p> <p><u>Suppliers should declare whether the Hazardous Materials listed in Table 2.1.2-1 and Table 2.1.2-2 in the MD are present in concentrations above the threshold values specified for each homogeneous material in a product.</u></p>		<p>- MEPC.379(80) APPENDIX 3 Para.3.2</p>

Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p><b><u>An3.2.2 Hazardous Materials for which the Installation or use is Prohibited or Restricted</u></b></p> <p><u>If one or more materials listed in Table 2.1.2-1 are found to be present in concentrations above the specified threshold value according to the MD, the products which contain these materials shall not be installed on a ship. However, if the materials are used in a product in accordance with an exemption specified by the Convention (e.g. new installations containing hydrochlorofluorocarbons (HCFC) before 1 January 2020), the product is to be listed in the IHM.</u></p> <p><b><u>An3.2.3 Materials to be Listed if the Threshold is Exceeded</u></b></p> <p><u>If one or more materials listed in Table 2.1.2-2 are found to be present in concentrations above the specified threshold value according to the MD, the products are to be listed in the IHM.</u></p> <p><b><u>An3.3 Example of Homogeneous Materials</u></b></p> <p><u>Fig. An3.3 shows an example of four homogeneous materials which constitute a cable. In this case, the sheath, intervention, insulator and conductor are all individual homogeneous materials.</u></p>		<p>- MEPC.379(80) APPENDIX 3 Para.3.2.1</p> <p>- MEPC.379(80) APPENDIX 3 Para.3.2.2</p> <p>- MEPC.379(80) APPENDIX 3 Para.3.3</p>

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p align="center"><u>Fig. An3.3 Example of Homogeneous Materials (Cable)</u></p>  <p><b><u>An4 UTILIZATION OF HAZARDOUS MATERIALS INFORMATION</u></b></p> <p><u>Products which contain Hazardous Materials in concentrations above the specified threshold values are to be clearly identified in the MD. The approximate quantity of the Hazardous Materials is to be calculated if the mass data for Hazardous Materials are declared in the MD using a unit which cannot be directly utilized in the IHM.</u></p> <p><b><u>An5 PREPARATION OF INVENTORY OF HAZARDOUS MATERIALS (BY FILLING OUT STANDARD FORMAT)</u></b></p> <p><b><u>An5.1 General</u></b></p> <p><u>The information received for the IHM, as contained in Table 2.1.2-1 and Table 2.1.2-2 of the Rules, ought to be structured and utilized according to the following categorization for Part I of the IHM:</u></p> <p>(1) Part I-1: Paints and coating systems</p>		<p>- MEPC.379(80) APPENDIX 3 Figure.2</p> <p>- MEPC.379(80) APPENDIX 3 Para.4</p> <p>- MEPC.379(80) APPENDIX 3 Para.5</p>

### Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks																																
<p>(2) <u>Part I-2: Equipment and machinery</u>                      (3) <u>Part I-3: Structure and hull</u></p> <p><b><u>An5.2 “Name of equipment and machinery” Column</u></b></p> <p><b><u>An5.2.1 Equipment and Machinery</u></b></p> <p><u>1 The name of each item of equipment or machinery are to be entered in this column. If more than one Hazardous Material is present in the equipment or machinery, the row relating to that equipment or machinery is to be appropriately divided such that all of the Hazardous Materials contained in the piece of equipment or machinery are entered. If more than one item of equipment or machinery is situated in one location, both name and quantity of the equipment or machinery are to be entered in the column. Examples are shown in rows No.1 and No.2 of Table An5.2.</u></p> <p><u>2 For identical or common items, such as but not limited to bolts, nuts and valves, there is no need to list each item individually (see Bulk Listing in 2.1.2-5, Part 2 of the Rules). An example is shown in row No.3 of Table An5.2.</u></p> <p style="text-align: center;"><b><u>Table An5.2 Example Showing More than One Item of Equipment or Machinery Situated in One Location</u></b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">No.</th> <th style="width: 25%;">Name of equipment and machinery</th> <th style="width: 10%;">Location</th> <th style="width: 10%;">Materials</th> <th style="width: 15%;">Parts where used</th> <th style="width: 10%;">Approx. quantity</th> <th style="width: 25%;">Remarks</th> </tr> </thead> <tbody> <tr> <td rowspan="2" style="text-align: center;">1</td> <td rowspan="2" style="text-align: center;">Main Engine</td> <td rowspan="2" style="text-align: center;">Engine Room</td> <td style="text-align: center;">Lead</td> <td style="text-align: center;">Piston Pin Bush</td> <td style="text-align: center;">0.75 kg</td> <td></td> </tr> <tr> <td style="text-align: center;">Mercury</td> <td style="text-align: center;">Thermometer charge air temperature</td> <td style="text-align: center;">0.01 kg</td> <td></td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">Diesel Generator (x 3)</td> <td style="text-align: center;">Engine room</td> <td style="text-align: center;">Mercury</td> <td style="text-align: center;">Thermometer</td> <td style="text-align: center;">0.03 kg</td> <td></td> </tr> <tr> <td style="text-align: center;">3</td> <td style="text-align: center;">FC valve (x100)</td> <td style="text-align: center;">Throughout the ship</td> <td style="text-align: center;">Lead and lead compounds</td> <td></td> <td style="text-align: center;">20.5 kg</td> <td></td> </tr> </tbody> </table>	No.	Name of equipment and machinery	Location	Materials	Parts where used	Approx. quantity	Remarks	1	Main Engine	Engine Room	Lead	Piston Pin Bush	0.75 kg		Mercury	Thermometer charge air temperature	0.01 kg		2	Diesel Generator (x 3)	Engine room	Mercury	Thermometer	0.03 kg		3	FC valve (x100)	Throughout the ship	Lead and lead compounds		20.5 kg			<p>- MEPC.379(80) APPENDIX 3 Para.5.1</p> <p style="text-align: center;">- MEPC.379(80) APPENDIX 3 Table 1</p>
No.	Name of equipment and machinery	Location	Materials	Parts where used	Approx. quantity	Remarks																												
1	Main Engine	Engine Room	Lead	Piston Pin Bush	0.75 kg																													
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## Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks																				
<p><b><u>An5.2.2 Pipes and Cables</u></b>  <u>The names of pipes and of systems, including electric cables, which are often situated in more than one compartment of a ship, are to be described using the name of the system concerned. A reference to the compartments where these systems are located is not necessary as long as the system is clearly identified and properly named.</u></p> <p><b><u>An5.3 “Approximate quantity” Column</u></b>  <u>The standard unit for approximate quantity of solid Hazardous Materials is to be kg. If the Hazardous Materials are liquids or gases, the standard unit is to be either m<sup>3</sup> or kg. An approximate quantity is to be rounded up to at least two significant figures. If the Hazardous Material is less than 10 g, the description of the quantity is to read “&lt;0.01 kg”. An example is shown in Table An5.3.</u></p> <div style="text-align: center;"> <p><b>Table An5.3 Example of a Switchboard</b></p> <table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">No.</th> <th style="text-align: center;"><u>Name of equipment and machinery</u></th> <th style="text-align: center;"><u>Location</u></th> <th style="text-align: center;"><u>Materials</u></th> <th style="text-align: center;"><u>Parts where used</u></th> <th style="text-align: center;"><u>Approx. quantity</u></th> <th style="text-align: center;"><u>Remarks</u></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;"><u>Switch Board</u></td> <td style="text-align: center;"><u>Engine Control Room</u></td> <td style="text-align: center;"><u>Cadmium</u></td> <td style="text-align: center;"><u>Housing coating</u></td> <td style="text-align: center;">0.02 kg</td> <td style="text-align: center;">=</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align: center;"><u>Mercury</u></td> <td style="text-align: center;"><u>Heat gauge</u></td> <td style="text-align: center;">&lt;0.01 kg</td> <td style="text-align: center;"><u>less than 0.01 kg</u></td> </tr> </tbody> </table> </div> <p><b><u>An5.4 “Location” Column</u></b></p> <p><b><u>An5.4.1 Example of a Location List</u></b>  <u>It is recommended to prepare a location list which covers all compartments of a ship based on the ship’s plans (e.g.</u></p>	No.	<u>Name of equipment and machinery</u>	<u>Location</u>	<u>Materials</u>	<u>Parts where used</u>	<u>Approx. quantity</u>	<u>Remarks</u>	1	<u>Switch Board</u>	<u>Engine Control Room</u>	<u>Cadmium</u>	<u>Housing coating</u>	0.02 kg	=				<u>Mercury</u>	<u>Heat gauge</u>	<0.01 kg	<u>less than 0.01 kg</u>	<p style="text-align: center; font-size: 2em; opacity: 0.2; pointer-events: none;">A/S</p> <p style="text-align: right;">- MEPC.379(80) APPENDIX 3 Para.5.2</p> <p style="text-align: right;">- MEPC.379(80) APPENDIX 3 Table 2</p> <p style="text-align: right;">- MEPC.379(80) APPENDIX 3 Para.5.3</p>
No.	<u>Name of equipment and machinery</u>	<u>Location</u>	<u>Materials</u>	<u>Parts where used</u>	<u>Approx. quantity</u>	<u>Remarks</u>																
1	<u>Switch Board</u>	<u>Engine Control Room</u>	<u>Cadmium</u>	<u>Housing coating</u>	0.02 kg	=																
			<u>Mercury</u>	<u>Heat gauge</u>	<0.01 kg	<u>less than 0.01 kg</u>																

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>general arrangement, engine-room arrangement, accommodation and tank plan) and on other documentation on board, including certificates or spare parts lists. The description of the location is to be based on a location such as a deck or room to enable easy identification. The name of the location is to correspond to the ship’s plans so as to ensure consistency between the IHM and the ship’s plans. Examples of names of locations are shown in <b>Table An5.4-1</b>. For bulk listings, the locations of the items or materials may be generalized. For example, the location may only include the primary classification such as “Throughout the ship” as shown in the <b>Table An5.4-1</b>.</u></p> <p><b><u>An5.4.2 Description of Location of Pipes and Electrical Systems</u></b></p> <p><b><u>1</u></b> Locations of pipes and systems, including electrical systems and cables situated in more than one compartment of a ship, is to be described for each system concerned. If they are situated in a number of compartments, the most practical of the following two options is to be used:</p> <p>(1) <u>listing of all components in the column; or</u></p> <p>(2) <u>description of the location of the system using an expression such as those shown under “primary classification” and “secondary classification” in <b>Table An5.4-1</b>.</u></p> <p><b><u>2</u></b> A typical description of a pipe system is shown in <b>Table An5.4-2</b>.</p>		

## Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended			Original			Remarks			
<u>Table An5.4-1 Examples of Location Names</u>						- MEPC.379(80) APPENDIX 3 Table 3			
<u>(A) Primary classification</u>	<u>(B) Secondary classification</u>	<u>(C) Name of location</u>	<u>(A) Primary classification</u>	<u>(B) Secondary classification</u>	<u>(C) Name of location</u>				
<u>All over the ship</u>									
<u>Hull Part</u>	<u>Fore Part</u>	<u>Bos'n Store</u>	<u>Machinery Part</u>	<u>Engine Room</u>	<u>Engine Room</u>				
		...			<u>Main Floor</u>				
	<u>Cargo Part</u>	<u>No.1 Cargo Hold/Tank</u>			<u>No.1 Garage Deck</u>	<u>2nd Floor</u>			
					...	...			
		<u>Generator Space/Room</u>							
	<u>Tank Part</u>	<u>Fore Peak Tank</u>			<u>No.1 WBT</u>	<u>Purifier Space/Room</u>			
					<u>No.1 FOT</u>	<u>Shaft Space/Room</u>			
					...	<u>Engine Casing</u>			
					<u>Aft Peak Tank</u>	<u>Funnel</u>			
					<u>Engine Control Room</u>				
	<u>Aft Part</u>	<u>Steering Gear Room</u>			<u>Emergency Fire Pump Space</u>	<u>Pump Room</u>	<u>Pump Room</u>		
					...	...			
	<u>Superstructure</u>	<u>Accommodation</u>			<u>Compass Deck</u>	<u>Exterior Part</u>	<u>Superstructure</u>	<u>Superstructure</u>	
					<u>Nav. Bridge Deck</u>		<u>Upper Deck</u>	<u>Upper Deck</u>	
					...		<u>Hull Shell</u>	<u>Hull Shell</u>	
					<u>Wheel House</u>		<u>Bottom</u>	<u>Under Waterline</u>	
					<u>Engine Control Room</u>		...	...	
<u>Cargo Control Room</u>			...	...					
...			...	...					
<u>Deck House</u>	<u>Deck House</u>								
...	...								
<u>Table An5.4-2 Example of Description of a Pipe System</u>						- MEPC.379(80) APPENDIX 3 Table 4			
<u>No.</u>	<u>Name of equipment and machinery</u>	<u>Location</u>	<u>Materials</u>	<u>Parts where used</u>	<u>Approx. quantity</u>		<u>Remarks</u>		
	<u>Water Ballast Pipe</u>	<u>Engine room, Hold parts</u>							

Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p style="text-align: center;"><b><u>ANNEX 2-4 EXAMPLE OF THE DEVELOPMENT PROCESS FOR PART I OF THE INVENTORY OF HAZARDOUS MATERIALS FOR EXISTING SHIPS</u></b></p> <p><b><u>An1 GENERAL</u></b></p> <p><b><u>An1.1 General</u></b>  <u>In order to develop Part I of the IHM for existing ships, documents of the individual ship as well as the knowledge and experience of specialist personnel (experts) is required. This annex has been developed to facilitate understanding of the development process for Part I of the IHM for existing ships. However, attention is to be paid to variations in different types of ships.</u></p> <p><b><u>An1.2 Development Flow for Part I of the Inventory of Hazardous Materials</u></b>  <u>Compilation of Part I of the IHM for existing ships involves the following five steps:</u></p> <ol style="list-style-type: none"> <li><u>(1) Collection of necessary information</u></li> <li><u>(2) Assessment of collected information</u></li> <li><u>(3) Preparation of visual/sampling check plan</u></li> <li><u>(4) Onboard visual/sampling check</u></li> <li><u>(5) Preparation of Part I of the IHM and related documentation</u></li> </ol>		<p>• MEPC.379(80) APPENDIX 5</p> <p>- MEPC.379(80) APPENDIX 5 Para.1.1</p> <p>- MEPC.379(80) APPENDIX 5 Para.1.2</p>



**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><b><u>An2 COLLECTION OF NECESSARY INFORMATION</u></b></p> <p><b><u>An2.1 Sighting of Available Documents</u></b></p> <p><u>1 A practical first step is to collect detailed documents for the ship. The shipowner is to try to collate documents normally retained on board the ship or by the shipping company as well as relevant documents that the shipyard, manufacturers or classification society may have. The following documents are to be used when available:</u></p> <ul style="list-style-type: none"> <li><u>(1) Ship's specification</u></li> <li><u>(2) General Arrangement</u></li> <li><u>(3) Machinery Arrangement</u></li> <li><u>(4) Spare Parts and Tools List</u></li> <li><u>(5) Piping Arrangement</u></li> <li><u>(6) Accommodation Plan</u></li> <li><u>(7) Fire-Control Plan</u></li> <li><u>(8) Fire Protection Plan</u></li> <li><u>(9) Insulation Plan (Hull and Machinery)</u></li> <li><u>(10) International Anti-Fouling System Certificate</u></li> <li><u>(11) Related manuals and drawings</u></li> <li><u>(12) Information from other inventories and/or sister or similar ships, machinery, equipment, materials and coatings</u></li> <li><u>(13) Results of previous visual/sampling checks and other analysis</u></li> </ul> <p><u>2 If the ship has undergone conversions or major repair work, it is necessary to identify as far as possible the modifications from the initial design and specification of the ship.</u></p>		<p>- MEPC.379(80) APPENDIX 5 Para.2.1</p>



**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><b>2 Asbestos</b>  <u>The list for asbestos is shown in Table 2.2.3-1.</u></p> <p><b>3 Polychlorinated biphenyl (PCB)</b>  <u>Worldwide restriction of PCB began on 17 May 2004 as a result of the implementation of the Stockholm Convention, which aims to eliminate or restrict the production and use of persistent organic pollutants. The indicative list for PCB is shown in Table 2.2.3-2.</u></p> <p><b>4 Ozone-depleting substances</b>  <u>The indicative list for ozone-depleting substances is shown in Table 2.2.3-3. Ozone-depleting substances have been controlled according to the Montreal Protocol and MARPOL Convention. Although almost all substances have been banned since 1996, HCFC can still be used until 2020.</u></p> <p><b>5 Organotin compounds</b>  <u>Organotin compounds include tributyl tins (TBT), triphenyl tins (TPT) and tributyl tin oxide (TBTO). Organotin compounds have been used as anti-fouling paint on ship's bottoms, and the International Convention on the Control of Harmful Anti-fouling Systems on Ships (AFS Convention, as amended) stipulates that all ships shall not apply or reapply organotin compounds after 1 January 2003, and that, after 1 January 2008, all ships shall either not bear such compounds on their hulls or shall bear a coating that forms a barrier preventing such compounds from leaching into the sea. The above-mentioned dates may have been extended by permission of the Administration bearing in mind that the AFS Convention entered into force on 17 September 2008.</u></p> <p><b>6 Cybutryne</b>  <u>Cybutryne has been used as biocide in anti-fouling</u></p>		

### Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p><u>systems, and the International Convention on the Control of Harmful Anti-fouling Systems on Ships (AFS Convention, as amended) stipulates that all ships shall not apply or reapply cybutryne after 1 January 2023, and that ships bearing an anti-fouling system that contains this substance in the external coating layer of their hulls or external parts or surfaces on 1 January 2023 shall either remove the anti-fouling system or apply a coating that forms a barrier to this substance leaching from the underlying non-compliant anti-fouling system at the next scheduled renewal of the anti-fouling system after 1 January 2023, but no later than 60 months following the last application to the ship of an anti-fouling system containing cybutryne.</u></p>		

**Table An2.2.3-1 The Indicative List for Asbestos**

<u>Structure and/or equipment</u>	<u>Component</u>
<u>Propeller shafting</u>	<u>Packing with low presser hydraulic piping flange</u>
	<u>Packing with casing</u>
	<u>Clutch</u>
	<u>Brake lining</u>
	<u>Synthetic stern tubes</u>
<u>Diesel engine</u>	<u>Packing with piping flange</u>
	<u>Lagging material for fuel pipe</u>
	<u>Lagging material for exhaust pipe</u>
	<u>Lagging material turbocharger</u>
<u>Turbine engine</u>	<u>Lagging material for casing</u>
	<u>Packing with flange of piping and valve for steam line, exhaust line and drain line</u>
	<u>Lagging material for piping and valve of steam line, exhaust line and drain line</u>
<u>Boiler</u>	<u>Insulation in combustion chamber</u>
	<u>Packing for casing door</u>
	<u>Lagging material for exhaust pipe</u>

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended		Original	Remarks
		<u>Gasket for manhole</u>	
		<u>Gasket for hand hole</u>	
		<u>Gas shield packing for soot blower and other hole</u>	
		<u>Packing with flange of piping and valve for steam line, exhaust line, fuel line and drain line</u>	
		<u>Lagging material for piping and valve of steam line, exhaust line, fuel line and drain line</u>	
<u>Exhaust gas economizer</u>		<u>Packing for casing door</u>	
		<u>Packing with manhole</u>	
		<u>Packing with hand hole</u>	
		<u>Gas shield packing for soot blower</u>	
		<u>Packing with flange of piping and valve for steam line, exhaust line, fuel line and drain line</u>	
		<u>Lagging material for piping and valve of steam line, exhaust line, fuel line and drain line</u>	
<u>Incinerator</u>		<u>Packing for casing door</u>	
		<u>Packing with manhole</u>	
		<u>Packing with hand hole</u>	
		<u>Lagging material for exhaust pipe</u>	
<u>Auxiliary machinery (pump, compressor, oil purifier, crane)</u>		<u>Packing for casing door and valve</u>	
		<u>Gland packing</u>	
		<u>Brake lining</u>	
<u>Heat exchanger</u>		<u>Packing with casing</u>	
		<u>Gland packing for valve</u>	
		<u>Lagging material and insulation</u>	
<u>Valve</u>		<u>Gland packing with valve, sheet packing with piping flange</u>	
		<u>Gasket with flange of high presser and/or high temperature</u>	
<u>Pipe, duct</u>		<u>Lagging material and insulation</u>	
<u>Tank (fuel tank, hot water, tank, condenser), other equipment (fuel strainer, lubricant oil strainer)</u>		<u>Lagging material and insulation</u>	
<u>Electric equipment</u>		<u>Insulation material</u>	
<u>Air-borne asbestos</u>		<u>Wall, ceiling</u>	
<u>Ceiling, floor and wall in</u>		<u>Ceiling, floor, wall</u>	

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended		Original	Remarks
<u>accommodation area</u>			
<u>Fire door</u>		<u>Packing, construction and insulation of the fire door</u>	
<u>Inert gas system</u>		<u>Packing for casing, etc.</u>	
<u>Air conditioning system</u>		<u>Sheet packing, lagging material for piping and flexible joint</u>	
<u>Miscellaneous</u>		<u>Ropes</u> <u>Thermal insulation materials</u> <u>Fire shields/fire proofing</u> <u>Space/duct insulation</u> <u>Electrical cable materials</u> <u>Brake linings</u> <u>Floor tiles/deck underlay</u> <u>Stern/water/vent flange gaskets</u> <u>Adhesives/mastics/fillers</u> <u>Sound damping</u> <u>Moulded plastic products</u> <u>Sealing putty</u> <u>Shaft/valve packing</u> <u>Electrical bulkhead penetration packing</u> <u>Circuit breaker arc chutes</u> <u>Pipe hanger inserts</u> <u>Weld shop protectors/burn covers</u> <u>Fire fighting blankets/clothing/equipment</u> <u>Concrete ballast</u>	

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<b>Table An2.2.3-2 The Indicative List for PCB</b>		
<u>Equipment</u>	<u>Component of equipment</u>	
<u>Transformer</u>	<u>Insulating oil</u>	
<u>Condenser</u>	<u>Insulating oil</u>	
<u>Fuel heater</u>	<u>Heating medium</u>	
<u>Electric cable</u>	<u>Covering, insulating tape</u>	
<u>Lubricating oil</u>		
<u>Heat oil</u>	<u>Thermometers, sensors, indicators</u>	
<u>Rubber/felt gaskets</u>		
<u>Rubber hose</u>		
<u>Plastic foam insulation</u>		
<u>Thermal insulating materials</u>		
<u>Voltage regulators</u>		
<u>Switches/reclosers/bushings</u>		
<u>Electromagnets</u>		
<u>Adhesives/tapes</u>		
<u>Surface contamination of machinery</u>		
<u>Oil-based paint</u>		
<u>Caulking</u>		
<u>Rubber isolation mounts</u>		
<u>Pipe hangers</u>		
<u>Light ballasts (component within fluorescent light fixtures)</u>		
<u>Plasticizers</u>		
<u>Felt under septum plates on top of hull bottom</u>		

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<b>Table An2.2.3-3 The Indicative List for Ozone-depleting Substances</b>		
<u>Materials</u>	<u>Component of equipment</u>	<u>Period for use of ODS in Japan</u>
<u>CFC (R11, R12)</u>	<u>Refrigerant for refrigerators</u>	<u>~1996</u>
<u>CFC</u>	<u>Urethane formed material</u>	<u>~1996</u>
	<u>Blowing agent for insulation of LNG carriers</u>	<u>~1996</u>
<u>Halons</u>	<u>Extinguishing agent</u>	<u>~1994</u>
<u>Other fully halogenated CFC</u>	<u>The possibility of usage in ships is low</u>	<u>~1996</u>
<u>Carbon tetrachloride</u>	<u>The possibility of usage in ships is low</u>	<u>~1996</u>
<u>1,1,1-Trichloroethane (Methyl chloroform)</u>	<u>The possibility of usage in ships is low</u>	<u>~1996</u>
<u>HCFC (R22, R141b)</u>	<u>Refrigerant for refrigerating machine</u>	<u>It is possible to use it until 2020</u>
<u>HBFC</u>	<u>The possibility of usage in ships is low</u>	<u>~1996</u>
<u>Methyl bromide</u>	<u>The possibility of usage in ships is low</u>	<u>~2005</u>
<p><b><u>An2.2.4 Materials are to be Listed in the Inventory of Hazardous Materials as far as Practicable</u></b></p> <p><u>For existing ships, it is not obligatory for materials listed in Table 2.1.2-2 to be listed in Part I of the IHM. However, if they can be identified in a practical way, they are to be listed in the IHM, because the information will be used to support Ship Recycling processes. The indicative list of materials listed in Table 2.1.2-2 is shown in Table An2.2.4.</u></p>		<p>- MEPC.379(80) APPENDIX 5 Para.2.2.4</p>



## Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<u>Table An2.2.4 The Indicative List for Materials Listed in Table 2.1.2-2</u>		
<u>Materials</u>	<u>Component of equipment</u>	
<u>Cadmium and Cadmium Compounds</u>	<u>Plating film, bearing</u>	
<u>Hexavalent Chromium Compounds</u>	<u>Plating film</u>	
<u>Mercury and Mercury Compounds</u>	<u>Fluorescent light, mercury lamp, mercury cell, liquid-level switch, gyro compass, thermometer, measuring tool, manganese cell, pressure sensors, light fittings, electrical switches, fire detectors</u>	
<u>Lead and Lead Compounds</u>	<u>Corrosion resistant primer, solder (almost all electric appliances contain solder), paints, preservative coatings, cable insulation, lead ballast, generators</u>	
<u>Polybrominated Biphenyl (PBB)</u>	<u>Non-flammable plastics</u>	
<u>Polybrominated Diphenyl Ethers (PBDE)</u>	<u>Non-flammable plastics</u>	
<u>Polychlorinated naphthalenes</u>	<u>Paint, lubricating oil</u>	
<u>Radioactive Substances</u>	<u>Refer to Appendix 2-5</u>	
<u>Certain Short-chain Chlorinated Paraffins</u>	<u>Non-flammable plastics</u>	
<p><b><u>An3 ASSESSMENT OF COLLECTED INFORMATION</u></b></p> <p><b><u>An3.1 General</u></b></p> <p><u>1 Preparation of a checklist is an efficient method for developing the IHM for existing ships in order to clarify the results of each step. Based on collected information including the indicative list mentioned in An2, all equipment, systems and/or areas on board assumed to contain Hazardous Materials listed in Tables 2.1.2-1 and Table 2.1.2-2 are to be included in the checklist. Each listed equipment, system and/or area on board are to be analysed and assessed for its Hazardous Materials content.</u></p>		<p>- MEPC.379(80) APPENDIX 5 Para.3</p>

## Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p><b>2</b> <u>The existence and volume of Hazardous Materials may be judged and calculated from the Spare parts and tools list and the maker’s drawings. The existence of asbestos contained in floors, ceilings and walls may be identified from Fire Protection Plans, while the existence of TBT in coatings can be identified from the International Anti-Fouling System Certificate, Coating scheme and the History of Paint. A weight calculation example is shown in Table An3.1-1.</u></p> <p><b>3</b> <u>When a component or coating is determined to contain Hazardous Materials, a “Y” is to be entered in the column for “Result of document analysis” in the checklist, to denote “Contained”. Likewise, when an item is determined not to contain Hazardous Materials, the entry “N” is to be made in the column to denote “Not contained”. When a determination cannot be made as to the Hazardous Materials content, the column should be completed with the entry “Unknown”. Example of the checklist is shown in Table An3.1-2.</u></p>		

**Table 3.1-1 The Example of Weight Calculation**

No.	Hazardous Materials	Location/equipment/ component	Reference	Calculation
1.1-2	TBT	Flat Bottom/Paint	History of coatings	
1.2-1	Asbestos	Main engine/Exh. pipe packing	Spare parts and tools list	$250g \times 14 \text{ sheet} = 3.50 \text{ kg}$
1.2-3	HCFC	Ref. provision plant	Maker’s drawings	$20kg \times 1 \text{ cylinder} = 20 \text{ kg}$
1.2-4	Lead	Batteries	Maker’s drawings	$6 \text{ kg} \times 16 \text{ unit} = 96 \text{ kg}$
1.3-1	Asbestos	Engine room ceiling	Accommodation plan	

## Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended					Original							Remarks
<b>Table 3.1-2 The Example of the Checklist</b>												
No.	Hazardous materials <small>*1</small>	Location	Name of equipment	Component	Quantity			Manufacturer/ Brand name	Result of documents analysis <small>*2</small>	Procedure of check <small>*3</small>	Result of check <small>*4</small>	Reference/ DWG No.
					Unit <small>(kg)</small>	No.	Total <small>(kg)</small>					
<u>Inventory part I-1.1</u>												
1	TBT	Top Side	Painting & coating	A/R Paints			Nil	Paints Co. /Marine P1000	N			On 1 August 200X, sealer coat applied to all over submerged area before tin free coating
2	TBT	Flat Bottom				3000m <sup>2</sup>		Unknown AF	Unknown			
<u>Inventory part I-1.2</u>												
1	Asbestos	Lower Deck	Main engine	Exh.pipe packing	0.25	14		Diesel Co.	Y			M-100
2	Asbestos	3rd Deck	Aux. boiler	Lagging		12		Unknown lagging	Unknown			M-300
3	Asbestos	Engine room	Piping/flange	Packing					PCHM			
4	HCFC	2nd Deck	Ref. plant	Refrigerant(R22)	20.00	1		Reito Co.	Y			Maker's DWG
5	Lead	Nav. Bri. Deck	Batteries		6	16		Denchi Co.	Y			E-300
<u>Inventory part I-1.3</u>												
1	Asbestos	Upper Deck	Back deck ceilings	E/R ceilings		20m <sup>2</sup>		Unknown Ceiling	Unknown			O-25
<p><u>Notes:</u></p> <p><small>*1 Hazardous Materials: material classification</small></p> <p><small>*2 Result of documents analysis: Y=Contained, N=Not contained, Unknown, PCHM=Potentially containing hazardous materials</small></p>												

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p>*3 Procedure of Check: V=Visual check, S=Sampling check                      *4 Result of Check: Y=Contained, N=Not contained, PCHM=Potentially containing hazardous materials</p> <p><b><u>An4 PREPARATION OF VISUAL/SAMPLING CHECK PLAN</u></b></p> <p><b><u>An4.1 General</u></b></p> <p><u>1 Each item classified as “Contained” or “Not contained” in An2 are to be subjected to a visual check on board, and the entry “V” are to be made in the “Check procedure” column to denote “Visual check”.</u></p> <p><u>2 For each item categorized as “unknown”, a decision should be made as to whether to apply a sampling check. However, any item categorized as “unknown” may be classed as “potentially containing hazardous material (PCHM)” provided comprehensive justification is given, or if it can be assumed that there will be little or no effect on disassembly as a unit and later Ship Recycling and disposal operations. For example, in the following checklist shown in Table An4.1-2, in order to carry out a sampling check for “Packing with aux. boiler” the shipowner needs to disassemble the auxiliary boiler in a repair yard. The costs of this check are significantly higher than the later disposal costs at a Ship Recycling facility. In this case, therefore, the classification as “potentially containing hazardous material” is justifiable.</u></p> <p><u>3 Before any visual/sampling check on board is conducted, a “visual/sampling check plan” is to be prepared. An example of such a plan is shown in Table An4.1-1.</u></p> <p><u>4 To prevent any incidents during the visual/sampling check, a schedule is to be established to eliminate</u></p>		<p>- MEPC.379(80)                      APPENDIX 5 Para.4</p>

### Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks																												
<p><u>interference with other ongoing work on board. To prevent potential exposure to Hazardous Materials during the visual/sampling check, safety precautions are to be in place on board. For example, sampling of potential asbestos containing materials could release fibres into the atmosphere. Therefore, appropriate personnel safety and containment procedures are to be implemented prior to sampling.</u></p> <p><u>5 Items listed in the visual/sampling check are to be arranged in sequence so that the onboard check is conducted in a structured manner (e.g. from a lower level to an upper level and from a fore part to an aft part).</u></p>																														
<p><b>Table An4.1-1 The Example of Visual/Sampling Check Plan</b></p>																														
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 35%;"><u>Name of ship</u></td> <td><u>XXXXXXXXXX</u></td> </tr> <tr> <td><u>IMO number</u></td> <td><u>XXXXXXXXXX</u></td> </tr> <tr> <td><u>Gross tonnage</u></td> <td>28,000GT</td> </tr> <tr> <td><u>L×B×D</u></td> <td><u>xxx.xx × xx.xx × xx.xx (m)</u></td> </tr> <tr> <td><u>Date of delivery</u></td> <td><u>dd.mm.1987</u></td> </tr> <tr> <td><u>Shipowner</u></td> <td><u>XXXXXXXXXX</u></td> </tr> <tr> <td><u>Contact point (Address, Telephone, Fax, Email)</u></td> <td><u>XXXXXXXXXX</u> Tel: <u>XXXXXXXXXX</u> Fax: <u>XXXXXXXXXX</u> E-mail: <u>abcdefg@hijk.co.net</u></td> </tr> <tr> <td><u>Check schedule</u></td> <td>Visual check: <u>DD MM YYYY</u> Sampling check: <u>DD MM YYYY</u></td> </tr> <tr> <td><u>Site of check</u></td> <td><u>XX shipyard, No. DOCK</u></td> </tr> <tr> <td><u>In charge of check</u></td> <td><u>XXXXXXXXXX</u></td> </tr> <tr> <td><u>Check engineer</u></td> <td><u>XXXXXXXX, YYYYYYYYYY, ZZZZZZ</u></td> </tr> <tr> <td><u>Sampling engineer</u></td> <td><u>Person with specialized knowledge of sampling</u></td> </tr> <tr> <td><u>Sampling method and anti-scattering measure for asbestos</u></td> <td><u>Wet the sampling location prior to cutting and allow it to harden after cutting to prevent scatter.</u> <u>Notes: Workers performing sampling activities shall wear protective equipment.</u></td> </tr> <tr> <td><u>Sampling of fragments of paints</u></td> <td><u>Paints suspected to contain TBT should be collected and analysed from load line.</u></td> </tr> </table>	<u>Name of ship</u>	<u>XXXXXXXXXX</u>	<u>IMO number</u>	<u>XXXXXXXXXX</u>	<u>Gross tonnage</u>	28,000GT	<u>L×B×D</u>	<u>xxx.xx × xx.xx × xx.xx (m)</u>	<u>Date of delivery</u>	<u>dd.mm.1987</u>	<u>Shipowner</u>	<u>XXXXXXXXXX</u>	<u>Contact point (Address, Telephone, Fax, Email)</u>	<u>XXXXXXXXXX</u> Tel: <u>XXXXXXXXXX</u> Fax: <u>XXXXXXXXXX</u> E-mail: <u>abcdefg@hijk.co.net</u>	<u>Check schedule</u>	Visual check: <u>DD MM YYYY</u> Sampling check: <u>DD MM YYYY</u>	<u>Site of check</u>	<u>XX shipyard, No. DOCK</u>	<u>In charge of check</u>	<u>XXXXXXXXXX</u>	<u>Check engineer</u>	<u>XXXXXXXX, YYYYYYYYYY, ZZZZZZ</u>	<u>Sampling engineer</u>	<u>Person with specialized knowledge of sampling</u>	<u>Sampling method and anti-scattering measure for asbestos</u>	<u>Wet the sampling location prior to cutting and allow it to harden after cutting to prevent scatter.</u> <u>Notes: Workers performing sampling activities shall wear protective equipment.</u>	<u>Sampling of fragments of paints</u>	<u>Paints suspected to contain TBT should be collected and analysed from load line.</u>		
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<u>Sampling method and anti-scattering measure for asbestos</u>	<u>Wet the sampling location prior to cutting and allow it to harden after cutting to prevent scatter.</u> <u>Notes: Workers performing sampling activities shall wear protective equipment.</u>																													
<u>Sampling of fragments of paints</u>	<u>Paints suspected to contain TBT should be collected and analysed from load line.</u>																													

## Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks		
	<u>directly under bilge keel and flat bottom near amidships.</u>			
<u>Laboratory</u>	QQQQQQ			
<u>Chemical analysis method</u>	ISO/DIS 22262-1 Bulk materials—Part 1: Sampling and qualitative determination of asbestos in commercial bulk materials and ISO/DIS 22262-1 Bulk materials—Part 2: Quantitative determination of asbestos by gravimetric and microscopic methods. ICP Luminous analysis (TBT)			
<u>Location of visual/sampling check</u>	Refer to lists for visual and sampling checks			
<u>Listing for equipment, system and/or area for visual check</u>				
See attached “Analysis and definition of scope of investigation for sample ship”				
<u>List of equipment, system and/or area for sampling check</u>				
<u>Location</u>	<u>Equipment, machinery and/or zone</u>	<u>Name of parts</u>	<u>Materials</u>	<u>Result of doc. checking</u>
<u>Upper Deck</u>	<u>Back deck ceilings</u>	<u>Engine room ceiling</u>	<u>Asbestos</u>	<u>Unknown</u>
<u>Engine room</u>	<u>Exhaust gas pipe</u>	<u>Insulation</u>	<u>Asbestos</u>	<u>Unknown</u>
<u>Engine room</u>	<u>Pipe/flange</u>	<u>Gasket</u>	<u>Asbestos</u>	<u>Unknown</u>
Refer to attached “Analysis and definition of scope of investigation for sample ship” and “Location plan of Hazardous Materials for sample ship”				
<u>List of equipment, system and/or area classed as PCHM</u>				
<u>Location</u>	<u>Equipment, machinery and/or zone</u>	<u>Name of part</u>	<u>Material</u>	<u>Result of doc. checking</u>
<u>Floor</u>	<u>Propeller cap</u>	<u>Gasket</u>	<u>Asbestos</u>	<u>PCHM</u>
<u>Engine room</u>	<u>Air operated shut-off valve</u>	<u>Gland packing</u>	<u>Asbestos</u>	<u>PCHM</u>

## Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks										
<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">                     Refer to attached "Analysis and definition of scope of investigation for sample ship" and "Location plan of Hazardous Materials for sample ship"                 </div> <p>This plan is established in accordance with the IMO guidelines for the development of the Inventory of Hazardous Materials (*)</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">                     Prepared by : XXXX XXXX                      Tel : YYYY-YYYY                      E-mail : XXXX@ZZZZ.co.net                 </div> <p>• Document check • date/place :                      _____ dd mm yyyy at XX Lines Co., Ltd</p> <p>• Preparation date of plan : dd mm yyyy</p>												
<b>Table An4.1-2 The Example of the Updated Checklist</b>												
<u>Inventory part I-1.1</u>												
No.	Hazardous materials <small>*1</small>	Location	Name of equipment	Component	Quantity			Manufacturer/ Brand name	Result of documents analysis <small>*2</small>	Procedure of check <small>*3</small>	Result of check <small>*4</small>	Reference/ DWG No.
					Unit <small>(kg)</small>	No.	Total <small>(kg)</small>					
1	TBT	Top Side	Painting & coating	A/F Paints			Nil	P1000 Paints Co. /Marine P1000	N	Y		On 1 August 200X, sealer coat applied to all over submerged area before tin free coating
2	TBT	Flat Bottom				3000m <sup>2</sup>		Unknown AF	Unknown	S		
<u>Inventory part I-1.2</u>												
1	Asbestos	Lower Deck	Main engine	Exh.pipe packing	0.25	14		Diesel Co.	Y	Y		M-100
2	Asbestos	3rd Deck	Aux. boiler	Lagging		12		Unknown lagging	Unknown	S		M-300
3	Asbestos	Engine room	Piping/flange	Packing					PCHM	Y		

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended							Original					Remarks
4	<u>HCFC</u>	<u>2nd Deck</u>	<u>Ref. plant</u>	<u>Refrigerant(R22)</u>	<u>20.00</u>	<u>1</u>		<u>Reito Co.</u>	<u>Y</u>	<u>V</u>		<u>Maker's DWG</u>
5	<u>Lead</u>	<u>Nav. Bri. Deck</u>	<u>Batteries</u>		<u>6</u>	<u>16</u>		<u>Denchi Co.</u>	<u>Y</u>	<u>V</u>		<u>E-300</u>
<u>Inventory part I-1.3</u>												
1	<u>Asbestos</u>	<u>Upper Deck</u>	<u>Back deck ceilings</u>	<u>E/Rceilings</u>		<u>20m<sup>2</sup></u>		<u>Unknown Ceiling</u>	<u>Unknown</u>	<u>S</u>		<u>O-25</u>
<p><u>Notes:</u></p> <p>*1 <u>Hazardous Materials: material classification</u></p> <p>*2 <u>Result of documents analysis: Y=Contained, N=Not contained, Unknown, PCHM=Potentially containing hazardous materials</u></p> <p>*3 <u>Procedure of Check: V=Visual check, S=Sampling check</u></p> <p>*4 <u>Result of Check: Y=Contained, N=Not contained, PCHM=Potentially containing hazardous materials</u></p>												
<p><b><u>An5 ONBOARD VISUAL/SAMPLING CHECK</u></b></p> <p><u>1 The visual/sampling check is to be conducted according to the plan. Checkpoints are to be marked in the ship's plan or recorded with photographs.</u></p> <p><u>2 A person taking samples is to be protected by the appropriate safety equipment relevant to the suspected type of Hazardous Materials encountered. Appropriate safety precautions are to also be in place for passengers, crew members and other persons on board, to minimize the potential exposure to Hazardous Materials. Safety precautions could include the posting of signs or other verbal or written notification for personnel to avoid such areas during sampling. The personnel taking samples is to ensure compliance with relevant national regulations.</u></p> <p><u>3 The results of visual/sampling checks are to be recorded in the checklist. Any equipment, systems and/or</u></p>												
												- MEPC.379(80) APPENDIX 5 Para.5



**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p>areas of the ship that cannot be accessed for checks are to be classified as “<i>potentially containing hazardous material</i>”. In this case, the entry in the “<i>Result of check</i>” column is to be “<i>PCHM</i>”.</p> <p><b><u>An6 PREPARATION OF PART I OF THE INVENTORY AND RELATED DOCUMENTATION</u></b></p> <p><b><u>An6.1 Development of Part I of the Inventory of Hazardous Materials</u></b>  <u>The results of the check and the estimated quantity of Hazardous Materials are to be recorded on the checklist. Part I of the IHM is to be developed with reference to the checklist. Example of the checklist and IHM are shown in Table An6.1-1 and Table An6.1-2.</u></p> <p><b><u>An6.2 Development of Location Diagram of Hazardous Materials</u></b>  <u>With respect to Part I of the IHM, the development of a location diagram of hazardous materials is recommended in order to help the Ship Recycling Facility gain a visual understanding of the IHM. An example of the location diagram of hazardous materials is shown in Fig. An6.1.</u></p>		<p>- MEPC.379(80) APPENDIX 5 Para.6</p>

## Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended					Original							Remarks
Table An6.1-1 Example of the Checklist												
No.	Hazardous materials <small>*1</small>	Location	Name of equipment	Component	Quantity			Manufacturer/ Brand name	Result of documents analysis <small>*2</small>	Procedure of check <small>*3</small>	Result of check <small>*4</small>	Reference/ DWG No.
					Unit <small>(kg)</small>	No.	Total <small>(kg)</small>					
<u>Inventory part I-1.1</u>												
1	TBT	Top Side	Painting & coating	A/F Paints			Nil	P1000 Paints Co. /Marine P1000	N	V	N	On 1 August 200X, sealer coat applied to all over submerged area before tin free coating
2	TBT	Flat Bottom			0.02	3000m <sup>2</sup>	60.00	Unknown AF	Unknown	S	Y	
<u>Inventory part I-1.2</u>												
1	Asbestos	Lower Deck	Main engine	Exh.pipe packing	0.25	14	3.50	Diesel Co.	Y	V	Y	M-100
2	Asbestos	3rd Deck	Aux. boiler	Lagging		12		Unknown lagging	Unknown	S	N	M-300
3	Asbestos	Engine room	Piping/flange	Packing					PCHM	V	PCHM	
4	HCFC	2nd Deck	Ref. plant	Refrigerant(R22)	20.00	1	20.00	Reito Co.	Y	V	Y	Maker's DWG
5	Lead	Nav. Bri. Deck	Batteries		6	16	96.00	Denchi Co.	Y	V	Y	E-300
<u>Inventory part I-1.3</u>												
1	Asbestos	Upper Deck	Back deck ceilings	E/Rceilings	0.19	20m <sup>2</sup>	3.80	Unknown Ceiling	Unknown	S	Y	O-25
<p><u>Notes:</u></p> <p>*1 Hazardous Materials: material classification</p> <p>*2 Result of documents analysis: Y=Contained, N=Not contained, Unknown, PCHM=Potentially containing hazardous materials</p>												

## Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks																																
<p>*3 Procedure of Check: V=Visual check, S=Sampling check                      *4 Result of Check: Y=Contained, N=Not contained, PCHM=Potentially containing hazardous materials</p> <p style="text-align: center;"><u>Table An6.1-2 Example of the IHM for Existing Ships</u></p> <p style="text-align: center;"><u>Inventory of Hazardous Materials For “Sample Ship”</u></p> <p style="text-align: center;"><u>Particulars of the “Sample Ship”</u></p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr><td><u>Distinctive number or letters</u></td><td>: ..... </td></tr> <tr><td><u>Port of registry</u></td><td>: Port of World</td></tr> <tr><td><u>Type of vessel</u></td><td>: Bulk carrier</td></tr> <tr><td><u>Gross tonnage</u></td><td>: 28,000GT</td></tr> <tr><td><u>IMO number</u></td><td>: ..... </td></tr> <tr><td><u>Name of shipbuilder</u></td><td>: ○○ Shipbuilding Co. Ltd</td></tr> <tr><td><u>Name of shipowner</u></td><td>: □□ Maritime S.A.</td></tr> <tr><td><u>Date of delivery</u></td><td>: MM DD YYYY</td></tr> </table> <p><u>This inventory was developed in accordance with the IMO guideline for the development of the Inventory of Hazardous Materials*1</u></p> <p><u>Attachment:</u>                      1: <u>Inventory of Hazardous Materials</u>                      2: <u>Assessment of collected information</u>                      3: <u>Location diagram of Hazardous Materials</u>                      * Prepared by ○○○○ (Name &amp; address) (mm dd yyyy)                      *1 <u>If the other regulation such as Article 5 of EU-SRR is applied in addition to IMO Guidelines, it should be indicated clearly.</u></p> <p style="text-align: center;"><u>Inventory of Hazardous Materials: “Sample Ship”</u></p> <p>I-1 <u>Paints and coating systems containing materials listed in Table A and Table B of the IMO guidelines*2</u></p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse; width: 100%;"> <thead> <tr> <th>No.</th> <th>Application of paint</th> <th>Name of paint</th> <th>Location *1</th> <th>Materials (classification in appendix 1)</th> <th>Approx. quantity</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>AF paint</td> <td>Unknown paints</td> <td>Flat bottom</td> <td>TBT</td> <td>60.00 kg</td> <td>Confirmed by</td> </tr> </tbody> </table>			<u>Distinctive number or letters</u>	: .....	<u>Port of registry</u>	: Port of World	<u>Type of vessel</u>	: Bulk carrier	<u>Gross tonnage</u>	: 28,000GT	<u>IMO number</u>	: .....	<u>Name of shipbuilder</u>	: ○○ Shipbuilding Co. Ltd	<u>Name of shipowner</u>	: □□ Maritime S.A.	<u>Date of delivery</u>	: MM DD YYYY	No.	Application of paint	Name of paint	Location *1	Materials (classification in appendix 1)	Approx. quantity	Remarks	1	AF paint	Unknown paints	Flat bottom	TBT	60.00 kg	Confirmed by		
<u>Distinctive number or letters</u>	: .....																																	
<u>Port of registry</u>	: Port of World																																	
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No.	Application of paint	Name of paint	Location *1	Materials (classification in appendix 1)	Approx. quantity	Remarks																												
1	AF paint	Unknown paints	Flat bottom	TBT	60.00 kg	Confirmed by																												

## Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended			Original				Remarks
						<u>sampling</u>	
<u>2</u>							
<u>3</u>							
<b>I-2 Equipment and machinery containing materials listed in Table A and Table B of the IMO guidelines*2</b>							
No.	Name of equipment and machinery	Location *1	Materials (classification in Appendix 1)	Parts where used	Approx. quantity	Remarks	
<u>1</u>	<u>Main engine</u>	<u>Lower floor</u>	<u>Asbestos</u>	<u>Exh. pipe packing</u>	<u>3.50</u> kg		
<u>2</u>	<u>Aux. boiler</u>	<u>3rd deck</u>	<u>Asbestos</u>	<u>Unknown packing</u>	<u>10.00</u> kg	<u>PCHM (potentially containing Hazardous Material)</u>	
<u>3</u>	<u>Piping/flange</u>	<u>Engine room</u>	<u>Asbestos</u>	<u>Packing</u>	<u>50.00</u> kg	<u>PCHM</u>	
<u>4</u>	<u>Ref. provision plant</u>	<u>2nd deck</u>	<u>HCFC</u>	<u>Refrigerant (R22)</u>	<u>20.00</u> kg		
<u>5</u>	<u>Batteries</u>	<u>Navig. Bridge deck</u>	<u>Lead</u>		<u>96.00</u> kg		
<b>I-3 Structure and hull containing materials listed in Table A and Table B of the guidelines*2</b>							
No.	Name of structural element	Location *1	Materials (classification in appendix 1)	Parts where used	Approx. quantity	Remarks	
<u>1</u>	<u>Back deck ceiling</u>	<u>Upper deck</u>	<u>Asbestos</u>	<u>Engine room ceiling (A class)</u>	<u>3.80</u> kg	<u>Confirmed by sampling</u>	
<u>2</u>							
<u>3</u>							
<b>Notes:</b>							
*1 Each item should be entered in order based on its location, from a lower level to an upper level and from a fore part to an aft part.							
*2 If the other regulation such as EU SRR is applied in addition to IMO Guidelines, these tiles should be amended reflecting it.							

# Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p><b>Fig. 6.1 Example of the Location Diagram of Hazardous Materials</b></p>		

Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p><b><u>ANNEX 2-5 SPECIFIC TEST METHODS</u></b></p> <p><b><u>An1 Asbestos</u></b></p> <p><b><u>An1.1 Types of Asbestos</u></b>                      The following (1) to (6) asbestos types are to be tested.                      (1) <u>Actinolite CAS 77536-66-4</u>                      (2) <u>Amosite (Grunerite) CAS 12172-73-5</u>                      (3) <u>Anthophyllite CAS 77536-67-5</u>                      (4) <u>Chrysotile CAS 12001-29-5</u>                      (5) <u>Crocidolite CAS 12001-28-4</u>                      (6) <u>Asbestos Tremolite CAS 77536-68-6</u></p> <p><b><u>An1.2 Specific Testing Techniques</u></b>  <u>1 Asbestos is to be tested using the following (1) to (3) methods as applicable.</u>                      (1) <u>Polarized Light Microscopy (PLM)</u>                      (2) <u>Electron microscope techniques</u>                      (3) <u>X-Ray Diffraction (XRD)</u>  <u>2 The suggested three kinds of testing techniques specified in -1 are most commonly used methods when analysing asbestos and each of them has its limitation. Laboratories are to choose the most suitable methods to determine, and in most cases, two or more techniques are to be utilized together.</u>  <u>3 The quantification of asbestos is difficult at this stage, although the XRD technique specified in -1(3) is applicable. Only a few laboratories conduct the quantification rather than the qualification, especially when a precise number is required. Considering the demand from the operators and</u></p>		<p>- MEPC.379(80) APPENDIX 9</p>

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>ship recycling parties, the precise concentration is not strictly required. Thereby, the concentration range is recommended to report, and the recommended range division according to standard VDI 3866 is as follows. Results that specified more precisely must be provided with a reasoned statement on the uncertainty.</u></p> <p><u>(1) Asbestos not detected</u>  <u>(2) Traces of asbestos detected</u>  <u>(3) Asbestos content approx. 1% to 15% by mass</u>  <u>(4) Asbestos content approx. 15% to 40% by mass</u>  <u>(5) Asbestos content greater than 40% by mass</u></p> <p><b><u>An1.3 Specific Reporting Information</u></b>  <u>1 The presence/no presence of asbestos, indicate the concentration range, and state the type when necessary.</u>  <u>2 As to the asbestos types, to distinguish all six different types is time- consuming and in some cases not feasible by current techniques; while on the practical side, the treatment of different types of asbestos is the same. Therefore, it is suggested to report the type when necessary.</u></p> <p><b><u>An2 Polychlorinated Biphenyls (PCB)</u></b></p> <p><b><u>An2.1 Types of Polychlorinated Biphenyls (PCB)</u></b>  <u>1 There are 209 different congeners (forms) of PCB of it is impracticable to test for all. Various organizations have developed lists of PCB to test for as indicators. In this instance two alternative approaches are recommended. Method 1 identifies the seven congeners used by the International Council for the Exploration of the Sea (ICES).</u></p>		

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>Method 2 identifies 19 congeners and seven types of aroclor (PCB mixtures commonly found in solid shipboard materials containing PCB).</u></p> <p><u>2 The PCB specified in (1) or (2) are to be tested.</u></p> <p><u>(1) Method 1: ICES7 congeners (28, 52, 101, 118, 138, 153, 180)</u></p> <p><u>(2) Method 2: 19 congeners and seven types of aroclor, using the US EPA 8082a test</u></p> <p><u>3 Laboratories are to be familiar with the requirements and consequences for each of these lists.</u></p> <p><b><u>An2.2 Specific Testing Techniques</u></b></p> <p><u>1 Applicable mixtures (such as aroclors) are to be tested using the following (1) to (3) methods.</u></p> <p><u>(1) GC-MS (congener specific)</u></p> <p><u>(2) GC-ECD</u></p> <p><u>(3) GC-ELCD</u></p> <p><u>2 standard samples must be used for each type.</u></p> <p><u>3 Certain field or indicator tests are suitable for detecting PCB in liquids or surfaces. However, there are currently no such tests that can accurately identify PCB in solid shipboard materials. It is also noted that many of these tests rely on the identification of free chlorine ions and are thus highly susceptible to chlorine contamination and false readings in a marine environment where all surfaces are highly contaminated with chlorine ions from the seawater and atmosphere.</u></p> <p><u>4 Several congeners are tested for as “indicator” congeners. They are used because their presence often indicates the likelihood of other congeners in greater quantities (many PCB are mixes, many mixes use a limited</u></p>		



Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p><u>number of PCB in small quantities, therefore the presence of these small quantities indicates the potential for a mix containing far higher quantities of other PCB).</u></p> <p><b><u>An2.3 Sample Preparation</u></b>  <u>It is important to properly prepare PCB samples prior to testing. For solid materials (cables, rubber, paint, etc.), it is especially critical to select the proper extraction procedure in order to release PCB since they are chemically bound within the product.</u></p> <p><b><u>An2.4 Specific Reporting Information</u></b>  <u>1 PCB congener, ppm per congener in sample, and for Method 2, ppm per aroclor in sample are to also be reported.</u>  <u>2 Many reports refer to “total PCB”, which is often a scaled figure to represent likely total PCB based on the sample and the common ratios of PCB mixes. Where this is done the exact scaling technique must be stated and is for information only and does not form part of the specific technique.</u></p> <p><b><u>An3 Ozone-depleting Substances</u></b></p> <p><b><u>An3.1 Types of Ozone-depleting Substances</u></b>  <u>Verification tests are to be carried out to determine the presence of the following (1) to (4) ozone-depleting substances prohibited by Montreal Protocol. The CAS numbers for these substances are specified in Annex 3-1 of the Rules.</u></p> <p><u>(1) CFC</u>  <u>(2) Halons</u></p>		

Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p>(3) <u>HCFC</u></p> <p>(4) <u>Other listed substance as required by Montreal Protocol</u></p> <p><b><u>An3.2 Specific Testing Technique</u></b>  <u>Ozone-depleting substances are to be tested using the following (1) to (3) methods.</u></p> <p>(1) <u>Gas Chromatography-Mass Spectrometry (GC-MS)</u>  (2) <u>Coupled Electron Capture Detectors (GC-ECD)</u>  (3) <u>Electrolytic Conductivity Detectors (GC-ELCD)</u></p> <p><b><u>An3.3 Specific Reporting Information</u></b>  <u>Ozone-depleting substances type and concentration are to be reported.</u></p> <p><b><u>An4 Anti-fouling Systems Containing Organotin Compounds as a Biocide and/or Cybutryne</u></b></p> <p><b><u>An4.1 Anti-fouling Systems Containing Organotin Compounds as a Biocide</u></b></p> <p><b><u>An4.1.1 Types of Anti-fouling Systems Containing Organotin Compounds as a Biocide</u></b>  <u>Anti-fouling compounds and systems regulated under annex I to the International Convention on the Control of Harmful Anti-fouling Systems on Ships, 2001 (AFS Convention, as amended) are to be tested. This includes the following (1) to (3).</u></p> <p>(1) <u>Tributyl tins (TBT)</u>  (2) <u>Triphenyl tins (TPT)</u>  (3) <u>Tributyl tin oxide (TBTO)</u></p>		

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><b><u>An4.1.2 Specific Testing Technique</u></b>  <u>1 According to MEPC.356(78) (2022 Guidelines for brief sampling of anti-fouling systems on ships), adopted on 10 June 2022, anti-fouling compounds and systems are to be tested using the following (1) to (5) methods as applicable.</u></p> <p><u>(1) ICPOES</u>  <u>(2) ICP</u>  <u>(3) AAS</u>  <u>(4) XRF</u>  <u>(5) GC-MS</u></p> <p><u>2 For “field” or ”indicative” testing it may be acceptable to simply identify presence of tin, owing to the expected good documentation on anti-fouling systems.</u></p> <p><b><u>An4.1.3 Specific Reporting Information</u></b>  <u>Organotin compound type and concentration are to be reported.</u></p> <p><b><u>An4.2 Anti-fouling Systems Containing Cybutryne</u></b></p> <p><b><u>An4.2.1 Types of Anti-fouling Systems Containing Cybutryne</u></b>  <u>Anti-fouling systems containing cybutryne regulated under annex I to the International Convention on the Control of Harmful Anti-fouling Systems on Ships, 2001 (AFS Convention, as amended) are to be tested.</u></p> <p><b><u>An4.2.2 Specific Testing Technique</u></b>  <u>According to MEPC.356(78) (2022 Guidelines for brief sampling of anti-fouling systems on ships), adopted on 10</u></p>		

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>June 2022, anti-fouling compounds and systems are to be tested by GC-MS.</u></p> <p><b><u>An4.2.3 Specific Reporting Information</u></b>  <u>Cybutryne concentration is to be reported.</u></p> <p><b><u>An4.3 Simplified Approach to Detect Organotin Compounds or Cybutryne</u></b></p> <p><b><u>An4.3.1 Types</u></b>  <u>Anti-fouling compounds and systems regulated under annex I to the International Convention on the Control of Harmful Anti-fouling Systems on Ships, 2001 (AFS Convention, as amended) are to be tested. This includes the following (1) and (2).</u></p> <p><u>(1) Organotin compounds as a biocide</u>  <u>(2) Cybutryne</u></p> <p><b><u>An4.3.2 Specific Testing Technique</u></b>  <u>According to MEPC.356(78) (2022 Guidelines for brief sampling of anti-fouling systems on ships), adopted on 10 June 2022, anti-fouling compounds and systems are to be tested by GC-MS.</u></p> <p><b><u>An4.3.3 Specific Reporting Information</u></b>  <u>Organotin compound and cybutryne concentrations are to be reported.</u></p>		

## Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks																																																																								
<p><b><u>ANNEX 2-6 FORM OF MATERIAL DECLARATION</u></b></p> <p style="text-align: center;"><u>Form of Material Declaration</u></p> <p><u>Date of Declaration</u></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"><u>Date</u></td> <td style="width: 85%;"></td> </tr> </table> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>&lt; MD ID No.&gt;</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"><u>MD- ID-No.</u></td> <td style="width: 85%;"></td> </tr> </table> <p>&lt;Other information &gt;</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"><u>Remarks 1</u></td> <td style="width: 85%;"></td> </tr> <tr> <td><u>Remarks 2</u></td> <td></td> </tr> <tr> <td><u>Remarks 3</u></td> <td></td> </tr> </table> </div> <div style="width: 45%;"> <p>&lt; Supplier (Respondent) Information &gt;</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 15%;"><u>Company Name</u></td><td style="width: 85%;"></td></tr> <tr><td><u>Division Name</u></td><td></td></tr> <tr><td><u>Address</u></td><td></td></tr> <tr><td><u>Contact Person</u></td><td></td></tr> <tr><td><u>Tel No.</u></td><td></td></tr> <tr><td><u>FAX No.</u></td><td></td></tr> <tr><td><u>E-mail address</u></td><td></td></tr> <tr><td><u>SDoC ID No.</u></td><td></td></tr> </table> </div> </div> <p>&lt; Product Information &gt;</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="width: 25%;"><u>Product Name</u></th> <th rowspan="2" style="width: 10%;"><u>Product No.</u></th> <th colspan="2" style="width: 15%;"><u>Delivered unit</u></th> <th rowspan="2" style="width: 50%;"><u>Product Information</u></th> </tr> <tr> <th style="width: 5%;"><u>Amount</u></th> <th style="width: 10%;"><u>Unit</u></th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <p>&lt; Materials Information &gt;</p> <p>This materials information shows the amount of Hazardous Materials contained in _____</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;"></td> <td style="width: 10%; text-align: center;"><u>Unit</u></td> <td style="width: 50%;"></td> </tr> <tr> <td style="text-align: center;">1</td> <td></td> <td style="text-align: center;">(Unit: No., kg, m, m<sup>2</sup>, m<sup>3</sup>, etc. of the product.)</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th rowspan="2" style="width: 10%;"><u>Table</u></th> <th colspan="2" style="width: 30%;"><u>Material name</u></th> <th rowspan="2" style="width: 10%;"><u>Threshold value</u></th> <th rowspan="2" style="width: 10%;"><u>Present above threshold value</u></th> <th colspan="2" style="width: 10%;"><u>If YES, material mass</u></th> <th rowspan="2" style="width: 30%;"><u>If YES, information on where it is used</u></th> </tr> <tr> <th style="width: 15%;"></th> <th style="width: 15%;"></th> <th style="width: 5%;"><u>YES/NO</u></th> <th style="width: 5%;"><u>Mass</u></th> <th style="width: 10%;"><u>Unit</u></th> </tr> </thead> <tbody> <tr> <td rowspan="2" style="text-align: center;"><u>Table A</u></td> <td style="width: 15%;"><u>Asbestos</u></td> <td style="width: 15%;"><u>Asbestos</u></td> <td style="text-align: center;">0.1% *1</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>Polychlorinated biphenyls (PCB)</u></td> <td><u>Polychlorinated biphenyls (PCB)</u></td> <td style="text-align: center;"><u>50 mg/kg</u></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		<u>Date</u>		<u>MD- ID-No.</u>		<u>Remarks 1</u>		<u>Remarks 2</u>		<u>Remarks 3</u>		<u>Company Name</u>		<u>Division Name</u>		<u>Address</u>		<u>Contact Person</u>		<u>Tel No.</u>		<u>FAX No.</u>		<u>E-mail address</u>		<u>SDoC ID No.</u>		<u>Product Name</u>	<u>Product No.</u>	<u>Delivered unit</u>		<u>Product Information</u>	<u>Amount</u>	<u>Unit</u>							<u>Unit</u>		1		(Unit: No., kg, m, m <sup>2</sup> , m <sup>3</sup> , etc. of the product.)	<u>Table</u>	<u>Material name</u>		<u>Threshold value</u>	<u>Present above threshold value</u>	<u>If YES, material mass</u>		<u>If YES, information on where it is used</u>			<u>YES/NO</u>	<u>Mass</u>	<u>Unit</u>	<u>Table A</u>	<u>Asbestos</u>	<u>Asbestos</u>	0.1% *1					<u>Polychlorinated biphenyls (PCB)</u>	<u>Polychlorinated biphenyls (PCB)</u>	<u>50 mg/kg</u>					<p>- MEPC.379(80) APPENDIX 6</p>
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### Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended		Original				Remarks
	<u>Ozone-depleting substances</u>	<u>Chlorofluorocarbons (CFC)</u>	No threshold value			
		<u>Halon</u>				
		<u>Other fully halogenated CFC</u>				
		<u>Carbon tetrachloride</u>				
		<u>1,1,1-Trichloroethane (Methyl chloroform)</u>				
		<u>Hydrochlorofluorocarbons</u>				
		<u>Hydrobromofluorocarbons</u>				
		<u>Methyl bromide</u>				
	<u>Bromochloromethane</u>					
		<u>Anti-fouling systems containing organotins compounds as a biocide</u>		2500 mg total tin/kg		
	<u>Anti-fouling systems containing cybtryne</u>		1,000 mg/kg <sup>2</sup>			

Table	Material name	Threshold value	Present above threshold value	If YES, material mass		If YES, information on where it is used
			YES/NO	Mass	Unit	
Table B (materials listed in appendix 2 of the Convention)	<u>Cadmium and cadmium compounds</u>	100 mg/kg				
	<u>Hexavalent chromium and hexavalent chromium compounds</u>	1,000 mg/kg				
	<u>Lead and lead compounds</u>	1,000 mg/kg				
	<u>Mercury and mercury compounds</u>	1,000 mg/kg				
	<u>Polybrominated Biphenyls (PBB)</u>	50 mg/kg				
	<u>Polybrominated Diphenyl Ethers (PBDE)</u>	1,000 mg/kg				
	<u>Polychlorinated naphthalenes (Cl &gt;= 3)</u>	50 mg/kg				
	<u>Radioactive Substances</u>	No threshold value				
	<u>Certain Short-chain Chlorinated Paraffins (Alkanes, C10-C13, chloro)</u>	1%				

### Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<ol style="list-style-type: none"> <li>1. <u>In accordance with regulation 4 of the Convention, for all ships, new installation of materials which contain asbestos shall be prohibited. According to the United Nations recommendation “Globally Harmonized System of Classification and Labelling of Chemicals (GHS)” adopted by the United Nations Economic and Social Council’s Sub-Committee of Experts on the Globally Harmonized System of Classification and Labelling of Chemicals (UNSCGHS), the UN’s Sub-Committee of Experts, in 2002 (published in 2003), carcinogenic mixtures classified as category 1A (including asbestos mixtures) under the GHS are required to be labelled as carcinogenic if the ratio is more than 0.1%.</u></li> <li>2. <u>When samples are directly taken from the hull, average values of cybutryne should not be present above 1,000 mg of cybutryne per kilogram of dry paint.</u></li> </ol>		

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**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks												
<p><b><u>ANNEX 2-7 FORM OF SUPPLIER'S DECLARATION OF CONFORMITY</u></b></p> <p align="center"><u>Form of Supplier's Declaration of Conformity</u></p> <p><u>Supplier's Declaration of Conformity for Material Declaration Management</u></p> <p>1) <u>SdoC ID No.:</u> _____</p> <p>2) <u>Issuer's Name:</u> _____  <u>Issuer's Address:</u> _____</p> <p>3) <u>Object(s) of the Declaration:</u> _____          _____          _____</p> <p>4) <u>The object(s) of the declaration described above is in conformity with the following</u></p> <table border="0"> <thead> <tr> <th><u>Document No.:</u></th> <th><u>Title:</u></th> <th><u>Edition/Date of Issue</u></th> </tr> </thead> <tbody> <tr> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> </tr> </tbody> </table> <p>5) <u>Additional Information:</u> _____</p>	<u>Document No.:</u>	<u>Title:</u>	<u>Edition/Date of Issue</u>	_____	_____	_____	_____	_____	_____	_____	_____	_____		<p>- MEPC.379(80) APPENDIX 7</p>
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### Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p style="margin-left: 40px;">_____</p> <p>6) <u>Signed for and on behalf of:</u></p> <p>_____</p> <p><u>Name, designation</u></p> <p>_____</p> <p><u>Name, designation of authorized person</u>      <u>Signature of authorized person</u></p> <p>_____</p> <p><u>Place of issue</u>                                      <u>Date of issue</u></p>	<p style="margin-left: 40px;">_____</p>	

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**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

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<p><b><u>ANNEX 3-1 EXAMPLES OF TABLE 1.1.2-1 AND TABLE 1.1.2-2 MATERIALS OF THE RULES WITH CAS NUMBERS</u></b></p> <p><u>*This list was developed with reference to Joint Industry Guide No.101.</u></p> <p><u>*This list is not exhaustive; it represents examples of chemicals with known CAS numbers and may require periodical updating.</u></p> <p><b>1</b> <u>Materials listed in Table 1.1.2-1</u></p> <p><b>A. Asbestos</b></p> <table border="1"> <thead> <tr> <th align="center">Substances</th> <th align="center">CAS Numbers</th> </tr> </thead> <tbody> <tr> <td><u>Asbestos</u></td> <td><u>1332-21-4</u></td> </tr> <tr> <td><u>Actinolite</u></td> <td><u>77536-66-4</u></td> </tr> <tr> <td><u>Amosite (Grunerite)</u></td> <td><u>12172-73-5</u></td> </tr> <tr> <td><u>Anthophyllite</u></td> <td><u>77536-67-5</u></td> </tr> <tr> <td><u>Chrysotile</u></td> <td><u>12001-29-5</u></td> </tr> <tr> <td><u>Crocidolite</u></td> <td><u>12001-28-4</u></td> </tr> <tr> <td><u>Tremolite</u></td> <td><u>77536-68-6</u></td> </tr> </tbody> </table> <p><b>B. Polychlorinated biphenyls (PCB)</b></p> <table border="1"> <thead> <tr> <th align="center">Substances</th> <th align="center">CAS Numbers</th> </tr> </thead> <tbody> <tr> <td><u>Polychlorinated biphenyls</u></td> <td><u>1336-36-3</u></td> </tr> <tr> <td><u>Aroclor</u></td> <td><u>12767-79-2</u></td> </tr> <tr> <td><u>Chlorodiphenyl (Aroclor 1260)</u></td> <td><u>11096-82-5</u></td> </tr> <tr> <td><u>Kanechlor 500</u></td> <td><u>27323-18-8</u></td> </tr> <tr> <td><u>Aroclor 1254</u></td> <td><u>11097-69-1</u></td> </tr> </tbody> </table> <p><b>C. Ozone-depleting substances/isomers (they may contain isomers that are not listed here)</b></p> <table border="1"> <thead> <tr> <th align="center">Substances</th> <th align="center">CAS Numbers</th> </tr> </thead> <tbody> <tr> <td><u>Trichlorofluoromethane (CFC11)</u></td> <td><u>75-69-4</u></td> </tr> <tr> <td><u>Dichlorodifluoromethane (CFC12)</u></td> <td><u>75-71-8</u></td> </tr> <tr> <td><u>Chlorotrifluoromethane (CFC 13)</u></td> <td><u>75-72-9</u></td> </tr> <tr> <td><u>Pentachlorofluoroethane (CFC 111)</u></td> <td><u>354-56-3</u></td> </tr> </tbody> </table>			Substances	CAS Numbers	<u>Asbestos</u>	<u>1332-21-4</u>	<u>Actinolite</u>	<u>77536-66-4</u>	<u>Amosite (Grunerite)</u>	<u>12172-73-5</u>	<u>Anthophyllite</u>	<u>77536-67-5</u>	<u>Chrysotile</u>	<u>12001-29-5</u>	<u>Crocidolite</u>	<u>12001-28-4</u>	<u>Tremolite</u>	<u>77536-68-6</u>	Substances	CAS Numbers	<u>Polychlorinated biphenyls</u>	<u>1336-36-3</u>	<u>Aroclor</u>	<u>12767-79-2</u>	<u>Chlorodiphenyl (Aroclor 1260)</u>	<u>11096-82-5</u>	<u>Kanechlor 500</u>	<u>27323-18-8</u>	<u>Aroclor 1254</u>	<u>11097-69-1</u>	Substances	CAS Numbers	<u>Trichlorofluoromethane (CFC11)</u>	<u>75-69-4</u>	<u>Dichlorodifluoromethane (CFC12)</u>	<u>75-71-8</u>	<u>Chlorotrifluoromethane (CFC 13)</u>	<u>75-72-9</u>	<u>Pentachlorofluoroethane (CFC 111)</u>	<u>354-56-3</u>		
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## Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<u>Tetrachlorodifluoroethane (CFC 112)</u>	<u>76-12-0</u>	
<u>Trichlorotrifluoroethane (CFC 113)</u>	<u>354-58-5</u>	
<u>1,1,2 Trichloro-1,2,2 trifluoroethane</u>	<u>76-13-1</u>	
<u>Dichlorotetrafluoroethane (CFC 114)</u>	<u>76-14-2</u>	
<u>Monochloropentafluoroethane (CFC 115)</u>	<u>76-15-3</u>	
<u>Heptachlorofluoropropane (CFC 211)</u>	<u>422-78-6, 135401-87-5</u>	
<u>Hexachlorodifluoropropane (CFC 212)</u>	<u>3182-26-1</u>	
<u>Pentachlorotrifluoropropane (CFC 213)</u>	<u>2354-06-5, 134237-31-3</u>	
<u>Tetrachlorotetrafluoropropane (CFC 214)</u>	<u>29255-31-0</u>	
<u>1,1,1,3-Tetrachlorotetrafluoropropane</u>	<u>2268-46-4</u>	
<u>Trichloropentafluoropropane (CFC 215)</u>	<u>1599-41-3</u>	
<u>1,1,1-Trichloropentafluoropropane</u>	<u>4259-43-2</u>	
<u>1,2,3-Trichloropentafluoropropane</u>	<u>76-17-5</u>	
<u>Dichlorohexafluoropropane (CFC 216)</u>	<u>661-97-2</u>	
<u>Monochloroheptafluoropropane (CFC 217)</u>	<u>422-86-6</u>	
<u>Bromochlorodifluoromethane (Halon 1211)</u>	<u>353-59-3</u>	
<u>Bromotrifluoromethane (Halon 1301)</u>	<u>75-63-8</u>	
<u>Dibromotetrafluoroethane (Halon 2402)</u>	<u>124-73-2</u>	
<u>Carbon tetrachloride (Tetrachloromethane)</u>	<u>56-23-5</u>	
<u>1,1,1, - Trichloroethane (methyl chloroform) and its isomers except 1,1,2-trichloroethane</u>	<u>71-55-6</u>	
<u>Bromomethane (Methyl bromide)</u>	<u>74-83-9</u>	
<u>Bromodifluoromethane and isomers (HBFC's)</u>	<u>1511-62-2</u>	
<u>Dichlorofluoromethane (HCFC 21)</u>	<u>75-43-4</u>	
<u>Chlorodifluoromethane (HCFC 22)</u>	<u>75-45-6</u>	
<u>Chlorofluoromethane (HCFC 31)</u>	<u>593-70-4</u>	
<u>Tetrachlorofluoroethane (HCFC 121)</u>	<u>134237-32-4</u>	
<u>1,1,1,2-tetrachloro-2-fluoroethane (HCFC 121a)</u>	<u>354-11-0</u>	
<u>1,1,2,2-tetracloro-1-fluoroethane</u>	<u>354-14-3</u>	
<u>Trichlorodifluoroethane (HCFC 122)</u>	<u>41834-16-6</u>	
<u>1,2,2-trichloro-1,1-difluoroethane</u>	<u>354-21-2</u>	
<u>Dichlorotrifluoroethane(HCFC 123)</u>	<u>34077-87-7</u>	
<u>Dichloro-1,1,2-trifluoroethane</u>	<u>90454-18-5</u>	
<u>2,2-dichloro-1,1,1-trifluoroethane</u>	<u>306-83-2</u>	
<u>1,2-dichloro-1,1,2-trifluoroethane (HCFC-123a)</u>	<u>354-23-4</u>	
<u>1,1-dichloro-1,2,2-trifluoroethane (HCFC-123b)</u>	<u>812-04-4</u>	
<u>2,2-dichloro-1,1,2-trifluoroethane (HCFC-123b)</u>	<u>812-04-4</u>	

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<u>Chlorotetrafluoroethane (HCFC 124)</u> <u>2-chloro-1,1,1,2-tetrafluoroethane</u> <u>1-chloro-1,1,2,2-tetrafluoroethane (HCFC 124a)</u>	<u>63938-10-3</u> <u>2837-89-0</u> <u>354-25-6</u>	
<u>Trichlorofluoroethane (HCFC 131)</u> <u>H- Fluoro-1,2,2-trichloroethane</u> <u>1,1,1-trichloro-2-fluoroethane (HCFC131b)</u>	<u>27154-33-2;(134237-34-6)</u> <u>359-28-4</u> <u>811-95-0</u>	
<u>Dichlorodifluoroethane (HCFC 132)</u> <u>1,2-dichloro-1,1-difluoroethane (HCFC 132b)</u> <u>1,1-dichloro-1,2-difluoroethane (HFCF 132c)</u> <u>1,1-dichloro-2,2-difluoroethane</u> <u>1,2-dichloro-1,2-difluoroethane</u>	<u>25915-78-0</u> <u>1649-08-7</u> <u>1842-05-3</u> <u>471-43-2</u> <u>431-06-1</u>	
<u>Chlorotrifluoroethane (HCFC 133)</u> <u>1-chloro-1,2,2-trifluoroethane</u> <u>2-chloro-1,1,1-trifluoroethane (HCFC-133a)</u>	<u>1330-45-6</u> <u>1330-45-6</u> <u>75-88-7</u>	
<u>Dichlorofluoroethane(HCFC 141)</u> <u>1,1-dichloro-1-fluoroethane (HCFC-141b)</u> <u>1,2-dichloro-1-fluoroethane</u>	<u>1717-00-6; (25167-88-8)</u> <u>1717-00-6</u> <u>430-57-9</u>	
<u>Chlorodifluoroethane (HCFC 142)</u> <u>H- chloro-1,1-difluoroethane (HCFC142b)</u> <u>1-chloro-1,2-difluoroethane (HCFC142a)</u>	<u>25497-29-4</u> <u>75-68-3</u> <u>25497-29-4</u>	
<u>Hexachlorofluoropropane (HCFC 221)</u>	<u>134237-35-7</u>	
<u>Pentachlorodifluoropropane (HCFC 222)</u>	<u>134237-36-8</u>	
<u>Tetrachlorotrifluoropropane (HCFC 223)</u>	<u>134237-37-9</u>	
<u>Trichlorotetrafluoropropane (HCFC 224)</u>	<u>134237-38-0</u>	
<u>Dichloropentafluoropropane, (Ethyne, fluoro-) (HCFC 225)</u>	<u>127564-92-5; (2713-09-9)</u>	
<u>2,2-Dichloro-1,1,1,3,3-pentafluoropropane(HCFC 225aa)</u>	<u>128903-21-9</u>	
<u>2,3-Dichloro-1,1,1,2,3-pentafluoropropane (HCFC 225ba)</u>	<u>422-48-0</u>	
<u>1,2-Dichloro-1,1,2,3,3-pentafluoropropane (HCFC 225bb)</u>	<u>422-44-6</u>	
<u>3,3-Dichloro-1,1,1,2,2-pentafluoropropane (HCFC 225ca)</u>	<u>422-56-0</u>	
<u>1,3-Dichloro-1,1,2,2,3-pentafluoropropane (HCFC 225cb)</u>	<u>507-55-1</u>	
<u>1,1-Dichloro-1,2,2,3,3-pentafluoropropane(HCFC 225cc)</u>	<u>13474-88-9</u>	
<u>1,2-Dichloro-1,1,3,3,3-pentafluoropropane (HCFC 225da)</u>	<u>431-86-7</u>	
<u>1,3-Dichloro-1,1,2,3,3-pentafluoropropane (HCFC 225ea)</u>	<u>136013-79-1</u>	
<u>1,1-Dichloro-1,2,3,3,3-pentafluoropropane(HCFC 225eb)</u>	<u>111512-56-2</u>	
<u>Chlorohexafluoropropane (HCFC 226)</u>	<u>134308-72-8</u>	
<u>Pentachlorofluoropropane (HCFC 231)</u>	<u>134190-48-0</u>	

## Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<u>Tetrachlorodifluoropropane (HCFC 232)</u>	<u>134237-39-1</u>	
<u>Trichlorotrifluoropropane (HCFC 233)</u>	<u>134237-40-4</u>	
<u>1,1,1-Trichloro-3,3,3-trifluoropropane</u>	<u>7125-83-9</u>	
<u>Dichlorotetrafluoropropane (HCFC 234)</u>	<u>127564-83-4</u>	
<u>Chloropentafluoropropane (HCFC 235)</u>	<u>134237-41-5</u>	
<u>1-Chloro-1,1,3,3,3-pentafluoropropane</u>	<u>460-92-4</u>	
<u>Tetrachlorofluoropropane (HCFC 241)</u>	<u>134190-49-1</u>	
<u>Trichlorodifluoropropane (HCFC 242)</u>	<u>134237-42-6</u>	
<u>Dichlorotrifluoropropane (HCFC 243)</u>	<u>134237-43-7</u>	
<u>1,1-dichloro-1,2,2-trifluoropropane</u>	<u>7125-99-7</u>	
<u>2,3-dichloro-1,1,1-trifluoropropane</u>	<u>338-75-0</u>	
<u>3,3-Dichloro-1,1,1-trifluoropropane</u>	<u>460-69-5</u>	
<u>Chlorotetrafluoropropane (HCFC 244)</u>	<u>134190-50-4</u>	
<u>3-chloro-1,1,2,2-tetrafluoropropane</u>	<u>679-85-6</u>	
<u>Trichlorofluoropropane (HCFC 251)</u>	<u>134190-51-5</u>	
<u>1,1,3-trichloro-1-fluoropropane</u>	<u>818-99-5</u>	
<u>Dichlorodifluoropropane (HCFC 252)</u>	<u>134190-52-6</u>	
<u>Chlorotrifluoropropane (HCFC 253)</u>	<u>134237-44-8</u>	
<u>3-chloro-1,1,1-trifluoropropane (HCFC 253fb)</u>	<u>460-35-5</u>	
<u>Dichlorofluoropropane (HCFC 261)</u>	<u>134237-45-9</u>	
<u>1,1-dichloro-1-fluoropropane</u>	<u>7799-56-6</u>	
<u>Chlorodifluoropropane (HCFC 262)</u>	<u>134190-53-7</u>	
<u>2-chloro-1,3-difluoropropane</u>	<u>102738-79-4</u>	
<u>Chlorofluoropropane (HCFC 271)</u>	<u>134190-54-8</u>	
<u>2-chloro-2-fluoropropane</u>	<u>420-44-0</u>	

### D-1. Organotin compounds (tributyl tin, triphenyl tin, tributyl tin oxide)

<u>Substances</u>	<u>CAS Numbers</u>
<u>Bis(tri-n-butyltin) oxide</u>	<u>56-35-9</u>
<u>Triphenyltin N,N'-dimethyldithiocarbamate</u>	<u>1803-12-9</u>
<u>Triphenyltin fluoride</u>	<u>379-52-2</u>
<u>Triphenyltin acetate</u>	<u>900-95-8</u>
<u>Triphenyltin chloride</u>	<u>639-58-7</u>
<u>Triphenyltin hydroxide</u>	<u>76-87-9</u>
<u>Triphenyltin fatty acid salts (C=9-11)</u>	<u>47672-31-1</u>
<u>Triphenyltin chloroacetate</u>	<u>7094-94-2</u>

## Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<u>Tributyltin methacrylate</u>	2155-70-6	
<u>Bis(tributyltin) fumarate</u>	6454-35-9	
<u>Tributyltin fluoride</u>	1983-10-4	
<u>Bis(tributyltin) 2,3-dibromosuccinate</u>	31732-71-5	
<u>Tributyltin acetate</u>	56-36-0	
<u>Tributyltin laurate</u>	3090-36-6	
<u>Bis(tributyltin) phthalate</u>	4782-29-0	
<u>Copolymer of alkyl acrylate, methyl methacrylate and tributyltin methacrylate (alkyl: C=8)</u>	=	
<u>Tributyltin sulfamate</u>	6517-25-5	
<u>Bis(tributyltin) maleate</u>	14275-57-1	
<u>Tributyltin chloride</u>	1461-22-9	
<u>Mixture of tributyltin cyclopentanecarboxylate and its analogs (Tributyltin naphthenate)</u>	=	
<u>Mixture of tributyltin 1, 2, 3, 4, 4a, 4b, 5, 6, 10, 10adecahydro-7-isopropyl-1, 4a-dimethyl-1-phenanthlenecarboxylate and its analogs (Tributyltin rosin salt)</u>	=	
<u>Other tributyl tins &amp; triphenyl tins</u>	=	
<b><u>D-2. Anti-fouling systems containing cybutryne</u></b>		
<u>Substances</u>	<u>CAS Numbers</u>	
<u>Cybtorin</u>	28159-98-0	
<b><u>2 Materials listed in Table 1.1.2-2</u></b>		
<b><u>A. Cadmium/cadmium compounds</u></b>		
<u>Substances</u>	<u>CAS Numbers</u>	
<u>Cadmium</u>	7440-43-9	
<u>Cadmium oxide</u>	1306-19-0	
<u>Cadmium sulfide</u>	1306-23-6	
<u>Cadmium chloride</u>	10108-64-2	
<u>Cadmium sulfate</u>	10124-36-4	
<u>Other cadmium compounds</u>	=	
<b><u>B. Chromium VI compounds</u></b>		
<u>Substances</u>	<u>CAS Numbers</u>	
<u>Chromium (VI) oxide</u>	1333-82-0	
<u>Barium chromate</u>	10294-40-3	
<u>Calcium chromate</u>	13765-19-0	
<u>Chromium trioxide</u>	1333-82-0	
<u>Lead (II) chromate</u>	7758-97-6	

### Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<u>Sodium chromate</u>	<u>7775-11-3</u>	
<u>Sodium dichromate</u>	<u>10588-01-9</u>	
<u>Strontium chromate</u>	<u>7789-06-2</u>	
<u>Potassium dichromate</u>	<u>7778-50-9</u>	
<u>Potassium chromate</u>	<u>7789-00-6</u>	
<u>Zinc chromate</u>	<u>13530-65-9</u>	
<u>Other hexavalent chromium compounds</u>	-	
<b>C. Lead/lead compounds</b>		
<u>Substances</u>	<u>CAS Numbers</u>	
<u>Lead</u>	<u>7439-92-1</u>	
<u>Lead (II) sulfate</u>	<u>7446-14-2</u>	
<u>Lead (II) carbonate</u>	<u>598-63-0</u>	
<u>Lead hydrocarbonate</u>	<u>1319-46-6</u>	
<u>Lead acetate</u>	<u>301-04-2</u>	
<u>Lead (II) acetate, trihydrate</u>	<u>6080-56-4</u>	
<u>Lead phosphate</u>	<u>7446-27-7</u>	
<u>Lead selenide</u>	<u>12069-00-0</u>	
<u>Lead (IV) oxide</u>	<u>1309-60-0</u>	
<u>Lead (II,IV) oxide</u>	<u>1314-41-6</u>	
<u>Lead (II) sulfide</u>	<u>1314-87-0</u>	
<u>Lead (II) oxide</u>	<u>1317-36-8</u>	
<u>Lead (II) carbonate basic</u>	<u>1319-46-6</u>	
<u>Lead hydroxidcarbonate</u>	<u>1344-36-1</u>	
<u>Lead (II) phosphate</u>	<u>7446-27-7</u>	
<u>Lead (II) chromate</u>	<u>7758-97-6</u>	
<u>Lead (II) titanate</u>	<u>12060-00-3</u>	
<u>Lead sulfate, sulphuric acid, lead salt</u>	<u>15739-80-7</u>	
<u>Lead sulphate, tribasic</u>	<u>12202-17-4</u>	
<u>Lead stearate</u>	<u>1072-35-1</u>	
<u>Other lead compounds</u>	-	
<b>D. Mercury/ mercury compounds</b>		
<u>Substances</u>	<u>CAS Numbers</u>	
<u>Mercury</u>	<u>7439-97-6</u>	
<u>Mercuric chloride</u>	<u>33631-63-9</u>	
<u>Mercury (II) chloride</u>	<u>7487-94-7</u>	

## Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<u>Mercuric sulfate</u>	<u>7783-35-9</u>	
<u>Mercuric nitrate</u>	<u>10045-94-0</u>	
<u>Mercuric (II) oxide</u>	<u>21908-53-2</u>	
<u>Mercuric sulfide</u>	<u>1344-48-5</u>	
<u>Other mercury compounds</u>	-	
<b>E. Polybrominated biphenyls (PBBs) and polybrominated diphenyl ethers (PBDEs)</b>		
<u>Substances</u>	<u>CAS Numbers</u>	
<u>Bromobiphenyl and its ethers</u>	<u>2052-07-5 (2-Bromobiphenyl)</u>	
	<u>2113-57-7 (3-Bromobiphenyl)</u>	
	<u>92-66-0 (4-Bromobiphenyl)</u>	
	<u>101-55-3 (ether)</u>	
<u>Decabromobiphenyl and its ethers</u>	<u>13654-09-6</u>	
	<u>1163-19-5 (ether)</u>	
<u>Dibromobiphenyl and its ethers</u>	<u>92-86-4</u>	
	<u>2050-47-7 (ether)</u>	
<u>Heptabromobiphenylether</u>	<u>68928-80-3</u>	
<u>Hexabromobiphenyl and its ethers</u>	<u>59080-40-9</u>	
	<u>36355-01-8</u> <u>(hexabromo-1,1'-biphenyl)</u>	
	<u>67774-32-7 (Firemaster FF-1)</u>	
	<u>36483-60-0 (ether)</u>	
<u>Nonabromobiphenylether</u>	<u>63936-56-1</u>	
<u>Octabromobiphenyl and its ethers</u>	<u>61288-13-9</u>	
	<u>32536-52-0 (ether)</u>	
<u>Pentabromobidphenyl ether (note: commercially available PeBDPO is a complex reaction mixture containing a variety of brominated diphenyloxides.</u>	<u>32534-81-9 (CAS number used for commercial grades of PeBDPO)</u>	
<u>Polybrominated biphenyls</u>	<u>59536-65-1</u>	
<u>Tetrabromobiphenyl and its ethers</u>	<u>40088-45-7</u>	
	<u>40088-47-9 (ether)</u>	
<u>Tribromobiphenyl ether</u>	<u>49690-94-0</u>	
<b>F. Polychlorinated naphthalenes</b>		
<u>Substances</u>	<u>CAS Numbers</u>	
<u>Polychlorinated naphthalenes</u>	<u>70776-03-3</u>	
<u>Other polychlorinated naphthalenes</u>	-	



**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<b>G. Radioactive substances</b>		
<u>Substances</u>	<u>CAS Numbers</u>	
<u>Uranium</u>	-	
<u>Plutonium</u>	-	
<u>Radon</u>	-	
<u>Americium</u>	-	
<u>Thorium</u>	-	
<u>Cesium</u>	7440-46-2	
<u>Strontium</u>	7440-24-6	
<u>Other radioactive substances</u>	-	
<b>H. Certain short-chain chlorinated paraffins (with carbon length of 10-13 atoms)</b>		
<u>Substances</u>	<u>CAS Numbers</u>	
<u>Chlorinated paraffins (C10-13)</u>	85535-84-8	
<u>Other short-chain chlorinated paraffins</u>	-	

Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p style="text-align: center;"><b><u>GUIDANCE FOR THE SHIP RECYCLING</u></b></p> <p style="text-align: center;"><b><u>Part I GENERAL</u></b></p> <p style="text-align: center;"><b><u>CHAPTER 1 GENERAL</u></b></p> <p><b><u>1.2 Terms and Definitions</u></b></p> <p><b><u>1.2.1 Terminology</u></b></p> <p><b><u>1</u></b> If the Society authorizes the Ship Recycling Facilities specified in <b><u>1.2.1(7), Part I of the Rules</u></b>, the requirements specified in <b><u>Annex 1 of the Guidance</u></b> are to be the standard.</p> <p><b><u>2</u></b> If authorization is granted to the Society by the Competent Authority(ies), the “Statement of Compliance” (hereinafter referred to as “SOC”) used in <b><u>Annex 1 of the Guidance</u></b> is to be replaced by the “Document of Authorization to conduct Ship Recycling” (<i>DASR</i>).</p>	<p><b>(Establishment)</b></p>	

Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p align="center"><b><u>ANNEX 1 REQUIREMENTS FOR SHIP RECYCLING FACILITIES</u></b></p> <p align="center"><b><u>Chapter 1 ASSESMENT</u></b></p> <p><b><u>1.1 General</u></b></p> <p><b><u>1.1.1 Application</u></b>  <u>This annex applies to areas that are sites, yards or facilities used for the recycling of ships that are assessed or to be assessed in accordance with this annex.</u></p> <p><b><u>1.1.2 Kind of Assesments</u></b>  <u>Assesments are to be of the following kinds:</u>  <u>(1) Initial Assesments</u>  <u>(2) Annual Assesments</u>  <u>(3) Renewal Assesments</u>  <u>(4) Occasional Assesments</u></p> <p><b><u>1.1.3 Intervals of Assesments</u></b>  <u>Assesments are to be carried out in accordance with the following -1 through -4.</u>  <u>1 Initial Assesments are to be carried out when an assessment application is submitted for a Ship Recycling Facility.</u>  <u>2 Annual Assesments are to be carried out within 3 months before or after each anniversary date. The anniversary date is the day corresponding to the expiry date of the an existing SOC each year of its therm of validity.</u></p>		<p>Convention ARTICLE 4, 6</p> <p>MEPC.211(63)</p> <p>Convention ARTICLE 2 Para.1.1 ARTICLE 3 Para 1.2</p>

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>excluding its expiry date.</u></p> <p><b>3</b> <u>Renewal Assessments are to be completed prior to the expiry date of the existing <i>SOC</i>.</u></p> <p><b>4</b> <u>Occasional Assessments are to be carried out on the following occasions at times other than Initial Assessments or Renewal Assessments.</u></p> <p>(1) <u>The Ship Recycling Facility applies for the <i>SOC</i> amendment in order to widen the scope of authorization; for example, after having invested in the facility and added new capabilities which should be reflected in the <i>SOC</i>;</u></p> <p>(2) <u>The <i>SOC</i> amendment is triggered by compelling needs on the part of Competent Authority(ies); for example, when new domestic regulations are put into effect;</u></p> <p>(3) <u>The <i>SOC</i> amendment is triggered by a deviation of practice at the Ship Recycling Facility from the <i>SRFP</i>, which thereby affect the contents of the <i>SOC</i>;</u></p> <p>(4) <u>The <i>SOC</i> amendment is triggered by a change in the Hazardous Materials which the Ship Recycling Facility can remove, store and process; and</u></p> <p>(5) <u>Whenever the assessment is considered necessary by the Society.</u></p> <p><b><u>1.1.4 Preparation for Assessments and Other related Matters</u></b></p> <p><b>1</b> <u>All such preparations as required for initial, renewal and occasional assessments specified in this annex as well as those which may be required by the Society in accordance with this annex are the responsibility of the Ship Recycling Facilities or its representatives.</u></p>		<p>Convention ANNEX Reg.16.5</p> <p>MEPC.211(63) Para.8.4</p>

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>2 Applicants for assessments are to arrange supervisors who are well conversant with all of the assessment items required for the preparation of such assessments, and who are able to provide all necessary assistance to the assessor according to their requests during such assessments.</u></p> <p><u>3 Assessments may be suspended in cases where necessary preparations have not been made, any appropriate supervisor is not present, or the assessor considers that the safety for execution of the assessment is not ensured.</u></p>		MEPC.211(63) Para.7
<p><b><u>1.2 Initial Assessments</u></b></p>		
<p><b><u>1.2.1 Submission of Plans and Documents for Application</u></b></p>		
<p><u>1 For Ship Recycling Facilities intending to undergo Initial Assessments, the plans and documents specified in the flollowig (1) to (3) are to be submitted to the Society.</u></p>		MEPC.211(63) Para4.1
<p><u>(1) Application for authorization to conduct Ship Recycling</u></p>		
<p><u>(2) Copy of <i>SFRP</i></u></p>		
<p><u>(3) Any other documentation or certification required under applicable international or national legislation, including those related to Ship Recycling activity</u></p>		MEPC.211(63) Para5.1
<p><u>2 At the time of the acceptance of the application, if deficiencies are found in the submissions specified in -1, the Society may add, amend, ask for additional submission or return the plans and documents.</u></p>		MEPC.211(63) Para4.1

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><b><u>1.2.2 Submission of Plans and Documents for Reference</u></b></p> <p><u>For Ship Recycling Facilities intending to undergo the Initial Assessments, the original plans and documents specified in (1) to (3) are to be presented to the Society during Initial Assessments for reference, in addition to the plans and documents specified in 1.2.1-1.</u></p> <p><u>(1) General</u></p> <p><u>(a) SRFP</u></p> <p><u>(b) Any other documentation and/or certification required under applicable international or national legislation, including those related to Ship Recycling activity</u></p> <p><u>(c) A documented management system aimed at protecting human health and the environment without posing any unacceptable risks (including the appropriate procedures and techniques)</u></p> <p><u>(2) Management of Hazardous Materials</u></p> <p><u>(a) Procedures for environmentally sound management of Hazardous Materials and wastes</u></p> <p><u>(b) Procedures in place to ensure that all Hazardous Materials detailed in the IHM are, to the maximum extent possible prior to cutting, identified, labelled, packaged and removed by properly trained and equipped workers, then stored and transported to waste management facilities by licensed vehicles</u></p> <p><u>(c) Documentation certifying that procedures to send all Hazardous Materials and wastes to authorized waste management and disposal sites</u></p>		<p>MEPC.211(63) Para5</p> <p>MEPC.211(63) Para5.1</p> <p>MEPC.211(63) Para5.2</p>

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>have been established and demonstrating these site's compliance with international and national regulations</u></p> <p><u>(d) Procedures for managing all wastes generated by recycling activity, which should be kept separate from recyclable materials and equipment and labelled and stored under conditions that do not pose a risk to workers, human health or the environment</u></p> <p><u>(3) Other</u></p> <p><u>(a) Evidence and procedures that the Ship Recycling Facility undertake all necessary steps to fulfil the requirements of applicable international and national legislation</u></p> <p><u>(b) Evidence and procedures that planned and conducted activities respect the limits set out in applicable national laws and regulations on land use where the Ship Recycling Facility is located and is operating</u></p> <p><u>(c) The Society may require an environmental impact study from Ship Recycling Facilities</u></p> <p><b><u>1.2.3 Method of Initial Assessments</u></b></p> <p><u>In the Initial Assessment, the plans and documents submitted in accordance with 1.2.1-1 are to be assessed to confirm that the SRFP and related systems comply with Chapter 3 (hereinafter, this confirmation is to be referred to as "Verification of Documentation"). If the results of Verification of Documentation are satisfactory, an assessment is to be conducted at the relevant Ship Recycling Facility to confirm that the SRFP and related systems are</u></p>		<p>MEPC.211(63) Para5.3</p> <p>Convention ANNEX Reg 16.2,</p> <p>MEPC.211(63) Para 6, Para 7</p>

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>effectively implemented (hereinafter, this confirmation is to be referred to as “Site Inspection”).</u></p> <p><b><u>1.2.4 Verification of Documentation</u></b></p> <p><u>1 At Verification of Documentation, the following verifications are to be carried out:</u></p> <p><u>(1) Confirmation that the <i>SRFP</i> includes the policies, plans, systems and other items specified in <b>Chapter 3</b></u></p> <p><u>(2) Confirmation that the <i>SRFP</i> and related systems comply with <b>Chapter 3</b></u></p> <p><u>2 The <i>SRFP</i> is to be used as the main document in issuing the <i>SOC</i>.</u></p> <p><u>3 In order to grasp and understand the actual situation of Ship Recycling Facility subject to the <i>SRFP</i>, and in order to planning Site Inspection, the Society may conduct preliminary inspection of the Ship Recycling Facility prior to the Site Inspection.</u></p> <p><b><u>1.2.5 Site Inspection</u></b></p> <p><u>1 General</u></p> <p><u>(1) Site Inspections are to be conducted at Shop Recycling Facilities applying for aproval.</u></p> <p><u>(2) In advance of, during and following the Site Inspection, any necessary information should be provided by the Ship Recycling Facility.</u></p> <p><u>(3) The Site Inspection is to cover situations in which the Ship Recycling Facility is operating at maximum capacity with a full body of staff, including subcontractors.</u></p> <p><u>(4) If the Ship Recycling Facility is under construction</u></p>		<p>MEPC.211(63) Para 6</p> <p>MEPC.211(63) Para 5.1</p> <p>MEPC.211(63) Para 4.1</p> <p>MEPC.211(63) Para 7</p>



**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>or not fully operational, the Site Inspection should be conducted as far as practicable. In such a case, an additional follow-up site inspection is to be conducted after the Ship Recycling Facility becomes fully operational. According to the results of the follow-up Site Inspection, the Society may suspend, amend or withdraw the SOC.</u></p> <p><b>2 Purpose</b>  <u>The main purpose of the Site Inspection is to check the consistency of the SRFPP and relevant documentation with the actual arrangements and operations at the Ship Recycling Facility.</u></p> <p><b>3 Inspection Plan</b></p> <p>(1) <u>In order to conduct efficient and dependable Site Inspection, the Society is to make the site inspection plan (including the inspection method, schedule, etc.) in advance.</u></p> <p>(2) <u>The Ship Recycling Facility is to provide the work schedules for any scheduled projects to the Society to use for reference when making the site inspection plan. Since the purpose of the site inspection plan is to allow for more efficient and dependable audits of the complete Ship Recycling process of the Ship Recycling Facility, it is desirable that work schedules of two or more Ship Recycling projects be provided by the Ship Recycling Facility.</u></p> <p>(3) <u>If the Ship Recycling Facility submits supplementary documents, such as the certificate, authorization, and report from the Competent Authority(ies), third parties and entities, etc., the Society may use them</u></p>		<p>MEPC.211(63) Para 7</p> <p>MEPC.211(63) Para 7</p>

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>for reference when making the site inspection plan.</u></p> <p><u>(4) In order to ensure meeting with all necessary parties, the Society is to notify the Ship Recycling Facility of the site inspection plan in advance.</u></p> <p><b>4 Safety</b></p> <p><u>Safety issues are to be considered and sufficient precautions taken throughout the Site Inspection, including with respect to personal protection.</u></p> <p><b>5 Method of Site Inspection</b></p> <p><u>In order to verify that the following (1) to (3) throughout the actual Ship Recycling process, the Society is to conduct the necessary number of Site Inspections.</u></p> <p><u>(1) Safety, environmental protection and waste handling procedures established by the Ship Recycling Facility are functioning</u></p> <p><u>(2) A SRFP exists and it is being fully implemented. In particular, the following factors should be verified:</u></p> <p><u>(a) availability of the SRFP to all personnel at the Ship Recycling Facility;</u></p> <p><u>(b) knowledge of the SRFP among management, competent persons and workers according to their designated tasks, roles and responsibilities, including those with special duties such as first-aid personnel and fire fighters; and</u></p> <p><u>(c) implementation of the objectives of the SRFP, as demonstrated by implementation of operational procedures in:</u></p> <p><u>i) ship preparation processes;</u></p> <p><u>ii) monitoring of Safe-for-entry and Safe-for-hot-work conditions;</u></p>		<p>MEPC.211(63) Para 7</p> <p>MEPC.211(63) Para 7</p>

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>iii) deconstruction processes;</u>  <u>iv) hot work processes;</u>  <u>v) management of Hazardous Materials and wastes (protective measures and removal, transport, storage and disposal); and</u>  <u>vi) emergency preparedness</u></p> <p><u>(3) The Site Inspection should identify procedures and routines:</u>  <u>(a) developing and using the Ship Recycling Plan (SRP);</u>  <u>(b) accepting ships, taking into account relevant requirements and the required certificates;</u>  <u>(c) reporting and following up incidents; and</u>  <u>(d) conducting operations in a safe and environmentally sound manner, in accordance with the requirements of the Convention</u></p> <p><b>6</b> <u>Verification of Operational Limitations</u>  <u>The Site Inspection should verify the availability, size, restrictions and general set-up of the Ship Recycling Facility as stated in the application. Any arrangements established for the purpose of facilitating the recycling process should be described in the inspection report, as should any limitations related to the operation of the Ship Recycling Facility.</u></p> <p><b>7</b> <u>Management of Hazardous Materials and Wastes</u>  <u>In the Site Inspection, the following (1) to (3) are to be confirmed regarding the management of Hazardous Materials and wastes:</u></p> <p><u>(1) All sites utilizing established procedures, methods, arrangements and facilities for the removal, storage, processing (incineration, reclamation and specific</u></p>		

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>treatment), transport and disposal of Hazardous Materials and wastes are to be inspected.</u></p> <p><u>(2) The inspection is to verify that the Ship Recycling Facility is designed and constructed to manage any Hazardous Materials and wastes that are included in their application.</u></p> <p><u>(3) In cases where the Ship Recycling Facility is engaging one or more contractors by means of subcontracting for any activities related to the requirements of the Convention, the contractors should be subject to the same verification as if the Ship Recycling Facility itself was undertaking the activities. The Ship Recycling Facility is responsible for providing the Competent Authority(ies) with information required to perform a verification on the aforementioned contractors, as part of the overall assessment of the facility.</u></p> <p><b><u>8 Assessment on Emergency Preparedness and Response</u></b></p> <p><u>The Site Inspection is to include a practical test for assessing the implementation of measures relating to emergency preparedness and response. This may involve an unannounced complete evacuation of the Ship Recycling Facility or a similar procedure described in the plans for emergency preparedness and response.</u></p> <p><b><u>9 Notification of Results</u></b></p> <p><u>The Society is to notify the Ship Recycling Facility of the result of the inspection in writing. When there are non-conformities for which corrective actions are to be taken by the Ship Recycling Facility, the Society is to consult with</u></p>		

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>the Ship Recycling Facility and reach an agreement upon a time frame for which the corrective actions are to be taken.</u></p> <p><b><u>1.3 Renewal Assessment</u></b></p> <p><u>1 At a Renewal Assessment, the Society is to review all aspects of the <i>SRFP</i> and relevant systems, and verify that they are effectively implemented in accordance with Chapter 3.</u></p> <p><u>2 Renewal Assessment is, in principle, to be conducted in accordance with 1.2 (“Initial Assessment”) with relevant changes made as needed. If there have been changes and corrective action to the <i>SRFP</i> and relevant systems since the previous inspection, the Ship Recycling Facility is to submit an appropriately amended <i>SRFP</i> and documentation for relevant systems.</u></p> <p><b><u>1.4 Annual Assessment</u></b></p> <p><u>1 At an Annual Assessment, the Society is to review all aspects of the <i>SRFP</i> and relevant systems, and verify that they are effectively implemented in accordance with Chapter 3.</u></p> <p><u>2 Annual Assessment is, in principle, to be conducted in accordance with 1.3 (“Renewal Assessment”) with relevant changes made as needed. If there have been changes and corrective action to the <i>SRFP</i> and relevant systems since the previous inspection, the Ship Recycling Facility is to submit an appropriately amended <i>SRFP</i> and documentation for relevant systems.</u></p>		

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><b><u>1.5 Occasional Assessment</u></b></p> <p><u>1 At an Occasional Assessment, the Society is to review items specified in 1.1.3-4, and verify that the <i>SRFP</i> and relevant systems are effectively implemented in accordance with Chapter 3.</u></p> <p><u>2 Occasional Assessment is, in principle, to be conducted in accordance with 1.2 (“Initial Assessment”) with relevant changes made as needed. However, verification is to be carried out with respect to the items related to the reasons for application. If there have been changes and corrective action to the <i>SRFP</i> and relevant systems since the previous inspection, the Ship Recycling Facility is to submit an appropriately amended <i>SRFP</i> and documentation for relevant systems.</u></p> <p><b><u>1.6 Non-conformities</u></b></p> <p><u>When the Society finds any non-conformities with Chapter 3 or any deviations from the <i>SRFP</i> during the Site Inspection and requests that corrective action need to be taken in response, the Ship Recycling Facility is to make said the corrections without delay and undergo a follow-up assessment to verify the result of the corrective action. Such follow-up assessments, however, may be omitted at the discretion of the Society.</u></p>		<p>Convention ANNEX Para.16.6 MEPC.211(63) Para.8.5</p>

Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p style="text-align: center;"><b><u>Chapter 2 AUTHORIZATION</u></b></p> <p><b><u>2.1 Issuance of the Statement of Compliance (SOC) and Official Announcement</u></b></p> <p><u>1 The Society is to issue a SOC to the Ship Recycling Facility if the results of Initial Assessment and Renewal Assessment prove satisfactory.</u></p> <p><u>2 The SOC is not to be issued until all required documentation has been received and the Site Inspection has been successfully completed.</u></p> <p><u>3 The supplement to the SOC is to be permanently attached to the SOC.</u></p> <p><u>4 The SOC is to be maintained at the Ship Recycling Facility at all times.</u></p> <p><u>5 The Society will officially announce a list of authorized Ship Recycling Facilities.</u></p> <p><b><u>2.2 Valid Term of the Statement of Compliance (SOC)</u></b></p> <p><u>1 The SOC is to be issued for a period determined by the Society not exceeding 5 years.</u></p> <p><u>2 If a Ship Recycling Facility changes ownership, the new owner is to—within a reasonable time frame, if possible, not exceeding 30 days—notify the Society so that it can amend the SOC accordingly. The new owner is to confirm in writing that it will fully comply with all requirements, including the SRFP, and this annex. The new owner is to also provide any supporting documentation requested by the Society. If operations at the Ship Recycling Facility are</u></p>		<p>MEPC.211(63) Para.8.3</p> <p>Convention ANNEX Reg.16.5 MEPC.211(63) Para.9 Convention ANNEX Reg.16.5 MEPC.211(63) Para.9</p>

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>changed in such a way as to affect the conditions on which authorization was granted, the Society may amend, suspend or withdraw the <i>SOC</i> and inform the new owner accordingly.</u></p> <p><b><u>2.3 Withdrawal</u></b></p> <p><u>In case an authorized Ship Recycling Facility falls under one of the following (1) through (7), the Society may withdraw the authorization. Upon such a withdrawal, the Society will notify the Ship Recycling Facility accordingly.</u></p> <p><u>(1) In cases where the compliance of the Ship Recycling Facility to relevant requirements is in doubt.</u></p> <p><u>(2) In cases where appropriate corrective actions requested by the Society have not been taken by the date designated by the Society.</u></p> <p><u>(3) In cases where the approved condition has not complied with the technical requirements concerned due to alteration of the requirements.</u></p> <p><u>(4) In cases where either the Renewal Assessment or the Occasional Assessment specified respectively in 1.3 and 1.4 is not carried out.</u></p> <p><u>(5) In cases where willful acts or omissions are ascertained.</u></p> <p><u>(6) In cases where the Ship Recycling Facility has deliberately falsified reports.</u></p> <p><u>(7) In cases where the Ship Recycling Facility notifies the Society of its intent to no longer comply with this annex.</u></p>		<p>MEPC.211(63) Para.8.5 MEPC.211(63) Para.8.6</p>



Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p><b><u>Chapter 3 SHIP RECYCLING FACILITIES</u></b></p> <p><b><u>3.1 General</u></b></p> <p><b><u>3.1.1 Application</u></b>  <u>This chapter applies to areas that are sites, yards or facilities used for the recycling of ships that are assessed or to be assessed in accordance with this annex.</u></p> <p><b><u>3.1.2 General Requirements</u></b></p> <p><u>1 Ship Recycling Facilities are to establish management systems, procedures and techniques which do not pose health risks to the workers concerned or to the population in the vicinity of the Ship Recycling Facility and which will prevent, reduce, minimize and to the extent practicable eliminate adverse effects on the environment caused by Ship Recycling, taking into account IMO Resolution MEPC.210(63) “2012 Guidelines for Safe and Environmentally Sound Ship Recycling”.</u></p> <p><u>2 Ship Recycling Facilities are to comply with the following (1) to (3) when recycling a ship.</u></p> <p><u>(1) Ship Recycling Facilities are to only accept ships that comply with the Rules.</u></p> <p><u>(2) Ship Recycling Facilities are to only accept ships which they are authorized to recycle.</u></p> <p><u>(3) Ship Recycling Facilities are to have the documentation of its authorization available if such documentation is requested by a shipowner that is considering recycling a ship at the Ship Recycling Facility.</u></p>		<p>Convention ANNEX Reg.17.1</p> <p>Convention ANNEX Reg.17.2</p>



**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><b>2</b> <u>The SRFP is to be developed taking into account IMO Resolution MEPC.210(63) “2012 Guidelines for Safe and Environmentally Sound Ship Recycling”.</u></p> <p><b>3</b> <u>SRFP is to include following (1) to (9).</u></p> <p>(1) <u>A policy ensuring workers’ safety and the protection of human health and the environment, including the establishment of objectives that lead to the minimization and elimination to the extent practicable of the adverse effects of Ship Recycling on human health and the environment.</u></p> <p>(2) <u>A system for ensuring implementation of the requirements set out in this Convention, the achievement of the goals set out in the policy of the Recycling Company, and the continuous improvement of the procedures and standards used in the Ship Recycling operations.</u></p> <p>(3) <u>Identification of roles and responsibilities for employers and workers when conducting Ship Recycling operations.</u></p> <p>(4) <u>A programme for providing appropriate information and training of workers for the safe and environmentally sound operation of the Ship Recycling Facility.</u></p> <p>(5) <u>An emergency preparedness and response plan.</u></p> <p>(6) <u>A system for monitoring the performance of Ship Recycling.</u></p> <p>(7) <u>A record-keeping system showing how Ship Recycling is carried out.</u></p> <p>(8) <u>A system for reporting discharges, emissions, incidents and accidents causing damage, or with the</u></p>		<p>Convention ANNEX Reg 18</p> <p>Convention ANNEX Reg 18</p>

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>potential of causing damage, to worker’s safety, human health and the environment.</u></p> <p><u>(9) A system for reporting occupational diseases, accidents, injuries and other adverse effects on worker safety and human health.</u></p> <p><u>4 A recommended format of the <i>SRFP</i> is shown in Annex 3.</u></p> <p><u>5 An example format of the facility information to be included in the <i>SRFP</i> is shown in Annex 4.</u></p> <p><b><u>3.3 Ship Recycling Plan (SRP)</u></b></p> <p><u>A ship-specific Ship Recycling Plan (SRP) is to be developed by the Ship Recycling Facility(ies) prior to any recycling of a ship, taking into account the <i>IMO</i> Resolution <i>MEPC.196(62)</i> “2011 Guidelines for the Development of the Ship Recycling Plan”. The Ship Recycling Plan (SRP) is to be as follows:</u></p> <p><u>(1) be developed taking into account information provided by the shipowner;</u></p> <p><u>(2) be developed in the language accepted by the Party authorizing the Ship Recycling Facility, and if the language used is not English, French or Spanish, the Ship Recycling Plan (SRP) is to be translated into one of these languages, except where the Administration is satisfied that this is not necessary;</u></p> <p><u>(3) include information concerning inter alia, the establishment, maintenance, and monitoring of Safe-for-entry and Safe-for-hot-work conditions and how the type and amount of materials including those identified in the Inventory of Hazardous</u></p>		<p>Convention ANNEX Reg 9</p>

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>Materials will be managed;</u></p> <p><u>(4) be either explicitly or tacitly approved by the Competent Authority authorizing the Ship Recycling Facility. The Competent Authority is to send written acknowledgement of receipt of the Ship Recycling Plan (SRP) to the Ship Recycling Facility, shipowner and Administration within 3 working days of its receipt. Thereafter:</u></p> <p><u>(a) where a party requires explicit approval of the Ship Recycling Plan (SRP), the Competent Authority is to send written notification of its decision to approve or deny the Ship Recycling Plan (SRP) to the Ship Recycling Facility, shipowner and Administration; and</u></p> <p><u>(b) where a party requires tacit approval of the Ship Recycling Plan (SRP), the acknowledgment of receipt shall specify the end date of a 14-day review period. The Competent Authority is to notify any written objection to the Ship Recycling Plan (SRP) to the Ship Recycling Facility, Shipowner and Administration within this 14-day review period. Where no such written objection has been notified, the Ship Recycling Plan (SRP) is to be deemed to be approved.</u></p> <p><u>(5) once approved in accordance with (4), be made available for inspection by the Administration, or any nominated surveyors or organization recognized by it; and</u></p> <p><u>(6) where more than one Ship Recycling Facility is used,</u></p>		

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>identify the Ship Recycling Facilities to be used and specify the recycling activities and the order in which they occur at each authorized Ship Recycling Facility.</u></p> <p><b><u>3.4 Prevention of Adverse Effects to Human Health and the Environment</u></b></p> <p><u>Ship Recycling Facilities are to establish and utilize procedures taking into account IMO Resolution MEPC.210(63) “2012 Guidelines for Safe and Environmentally Sound Ship Recycling” are to prevent the following:</u></p> <p><u>(1) explosions, fires, and other unsafe conditions by ensuring that Safe-for-hot-work conditions and procedures are established, maintained and monitored throughout Ship Recycling;</u></p> <p><u>(2) harm from dangerous atmospheres and other unsafe conditions by ensuring that Safe-for-entry conditions and procedures are established, maintained, and monitored in ship spaces, including confined spaces and enclosed spaces, throughout Ship Recycling;</u></p> <p><u>(3) other accidents, occupational diseases and injuries or other adverse effects on human health or the environment; and</u></p> <p><u>(4) spills or emissions throughout Ship Recycling which may cause harm to human health or the environment.</u></p>		<p>Convention ANNEX Reg 19</p>

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><b><u>3.5 Safe and Environmentally Sound Management of Hazardous Materials</u></b></p> <p><u>1 Ship Recycling Facilities are to ensure safe and environmentally sound removal of any Hazardous Material contained in a ship certified. The persons in charge of the recycling operations and the workers are to be familiar with the requirements of this Convention relevant to their tasks and, in particular, actively use the IHM and the Ship Recycling Plan (SRP), prior to and during the removal of Hazardous Materials.</u></p> <p><u>2 Ship Recycling Facilities are to ensure that all Hazardous Materials detailed in the IHM are identified, labelled, packaged and removed to the maximum extent possible prior to cutting by properly trained and equipped workers, taking into account IMO Resolution MEPC.210(63) “2012 Guidelines for Safe and Environmentally Sound Ship Recycling”, in particular:</u></p> <ul style="list-style-type: none"> <li><u>(1) hazardous liquids, residues and sediments;</u></li> <li><u>(2) substances or objects containing heavy metals such as lead, mercury, cadmium and hexavalent chromium;</u></li> <li><u>(3) paints and coatings that are highly flammable and/or lead to toxic releases;</u></li> <li><u>(4) asbestos and materials containing asbestos;</u></li> <li><u>(5) PCB and materials containing PCB, ensuring that heat inducing equipment is avoided during such operations;</u></li> <li><u>(6) CFC and halons; and</u></li> <li><u>(7) other Hazardous Materials not listed above and that are not a part of the ship structure.</u></li> </ul>		<p>Convention ANNEX Reg 20.1</p> <p>Convention ANNEX Reg 20.2</p>









**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>2</u> Reports are to contain a description of the incident, accident, occupational disease, or chronic effect, its cause, the response action taken and the consequences and corrective actions to be taken.</p>		<p>Convention ANNEX Reg 23.2</p>

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## Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p><b><u>ANNEX 2 SHIP RECYCLING PROCESS FROM PREPARATION TO COMPLETION</u></b></p> <p style="text-align: center;"><u>Ship Recycling Process from Preparation to Completion</u></p> <pre> graph TD     subgraph State [Ship Recycling State]         Auth[Authorization Process]         App[Approval Process]         Rep[Report on the planned start of Ship Recycling]     end     subgraph Facility [Ship Recycling Facility]         Plan[Prepare Ship Recycling Facility Plan]         DASR[Document of Authorization to Conduct Ship Recycling (DASR)]         SRP[Develop Ship Recycling Plan (SRP)]         SRP_App[Approved SRP]         Rec[Recycling]         Comp[The Statement of Completion]     end     subgraph Owner [Ship Owner]         Start[Start of preparing for Ship Recycling]         Inv[Finalize the Inventory of Hazardous Materials (Part I, II, III)]         Decl[In case of a party has made a declaration not to require approval]     end     subgraph Flag [Flag State]         Final[Final Survey]         Cert[International Ready for Recycling Certificate]     end      Plan --&gt; DASR     Auth -- Issue --&gt; DASR     DASR -- Notice --&gt; Start     Start --&gt; Inv     Inv --&gt; SRP     Decl --&gt; SRP     SRP --&gt; App     App -- Approve --&gt; SRP_App     App -- Reject --&gt; SRP     SRP_App --&gt; Final     Inv --&gt; Final     Final --&gt; Cert     Cert --&gt; Rec     Rec --&gt; Comp     Comp -- Original --&gt; Rep     Comp -- Copy --&gt; Cert     </pre>		<p>MEPC.210(63) APPENDIX 3</p>

### Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original		Remarks
<u>Continuation</u>			
<u>Responsibility of Stakeholders</u>			
<u>Regulation 16</u> -Authorize the Ship Recycling Facilities <u>Regulation 9</u> -Approve SRP <u>Regulation 25</u> -Send a copy of the Statement to the flag state	<u>Regulation 18</u> -Prepare an SRFP <u>Regulation 9</u> -Develop a ship-specific SRP <u>Regulation 24</u> -Notify its Competent Authority of the intent -Report to its Competent Authority the planned start of Ship Recycling <u>Regulation 25</u> - Issue a Statement of Completion and report to its Competent Authority	<u>Regulation 5</u> -Have on board an Inventory of Hazardous Materials -Finalize Inventory of Hazardous Materials including Parts II & III <u>Regulation 8</u> -Provide the information with the SRF	<u>Regulation 10</u> -Verify Inventory of Hazardous Materials, SRP and DASR

Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p><b><u>ANNEX 3 RECOMMENDED FORMAT OF THE SHIP RECYCLING FACILITY PLAN</u></b></p> <p><u>SHIP RECYCLING FACILITY PLAN</u></p> <p><u>1 Facility management</u></p> <p><u>1.1 Company information</u></p> <p><u>1.2 Training programme</u></p> <p><u>1.3 Worker management</u></p> <p><u>1.4 Records management</u></p> <p><u>2 Facility operation</u></p> <p><u>2.1 Facility information</u></p> <p><u>2.2 Permits, licences and certification</u></p> <p><u>2.3 Acceptability of ships</u></p> <p><u>2.4 Ship Recycling Plan (SRP) development</u></p> <p><u>2.5 Vessel arrival management</u></p> <p><u>2.6 Ship Recycling methodology</u></p> <p><u>2.7 Reporting upon completion</u></p> <p><u>3 Worker safety and health compliance approach</u></p> <p><u>3.1 Worker health and safety</u></p> <p><u>3.2 Key safety and health personnel</u></p> <p><u>3.3 Job hazard assessment</u></p> <p><u>3.4 Prevention of adverse effects to human health</u></p> <p><u>3.4.1 Safe-for-entry procedures</u></p> <p><u>3.4.1.1 Safe-for-entry criteria</u></p> <p><u>3.4.1.2 Competent person for Safe-for-entry determination</u></p> <p><u>3.4.1.3 Safe-for-entry inspection and testing procedures</u></p> <p><u>3.4.1.4 Oxygen</u></p>		<p>MEPC.210(63) APPENDIX 1</p>

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>3.4.1.5 Flammable atmospheres</u></p> <p><u>3.4.1.6 Toxic, corrosive, irritant or fumigated atmospheres and residues</u></p> <p><u>3.4.1.7 Safe-for-entry determination by a competent person</u></p> <p><u>3.4.1.8 Safe-for-entry certificate, warning signs and labels</u></p> <p><u>3.4.1.9 Safe-for-entry operational measures</u></p> <p><u>3.4.2 Safe-for-hot-work procedures</u></p> <p><u>3.4.2.1 Safe-for-hot-work criteria</u></p> <p><u>3.4.2.2 Competent person for Safe-for-hot-work determination</u></p> <p><u>3.4.2.3 Safe-for-hot-work inspection, testing and determination</u></p> <p><u>3.4.2.4 Safe-for-hot-work certificate, warning signs and labels</u></p> <p><u>3.4.2.5 Safe-for-hot-work operational measures</u></p> <p><u>3.4.3 Welding, cutting, grinding and heating</u></p> <p><u>3.4.4 Drums, containers and pressure vessels</u></p> <p><u>3.4.5 Prevention of falling from heights and accidents caused by falling objects</u></p> <p><u>3.4.6 Gear and equipment for rigging and materials handling</u></p> <p><u>3.4.7 Houskeeping and illumination</u></p> <p><u>3.4.8 Maintenance and decontamination of tools and equipment</u></p> <p><u>3.4.9 Health and sanitation</u></p> <p><u>3.4.10 Personal protective equipment</u></p> <p><u>3.4.11 Worker exposure and medical monitoring</u></p> <p><u>3.5 Emergency preparedness and response plan</u></p> <p><u>3.6 Fire and explosion prevention, detection and response</u></p>		

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>4 Environmental compliance approach</u></p> <p><u>4.1 Environmental monitoring</u></p> <p><u>4.2 Management of Hazardous Materials</u></p> <p><u>4.2.1 Potentially containing Hazardous Materials</u></p> <p><u>4.2.2 Additional sampling and analysis</u></p> <p><u>4.2.3 Identification, marking and labelling and potential onboard locations</u></p> <p><u>4.2.4 Removal, handling and remediation</u></p> <p><u>4.2.5 Storage and labelling after removal</u></p> <p><u>4.2.6 Treatment, transportation and disposal</u></p> <p><u>4.3 Environmentally sound management of Hazardous Materials</u></p> <p><u>4.3.1 Asbestos and materials containing asbestos</u></p> <p><u>4.3.2 PCB and materials containing PCB</u></p> <p><u>4.3.3 Ozone-depleting substances (ODS)</u></p> <p><u>4.3.4 Paints and coatings</u></p> <p><u>4.3.4.1 Anti-fouling compounds and systems (organotin compounds including tributyltin (TBT))</u></p> <p><u>4.3.4.2 Toxic and highly flammable paints</u></p> <p><u>4.3.5 Hazardous liquids, residues and sediments (such as oils, bilge, and ballast water)</u></p> <p><u>4.3.6 Heavy metals (lead, mercury, cadmium and hexavalent chromium)</u></p> <p><u>4.3.7 Other Hazardous Materials</u></p> <p><u>4.4 Prevention of adverse effects to the environment</u></p> <p><u>4.4.1 Spill prevention, control and countermeasures</u></p> <p><u>4.4.2 Storm-water pollution prevention</u></p> <p><u>4.4.3 Debris prevention and control</u></p> <p><u>4.4.4 Incident and spills reporting procedures</u></p>		



**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<u>Plan Attachments</u>  <u>Facility Map</u> <u>Organizational Flow Chart</u> <u>Permits, Licences and Certification</u> <u>Resumes</u>		

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**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks																
<p align="center"><b><u>ANNEX 4 EXAMPLE FORMAT OF FACILITY INFORMATION IN SHIP RECYCLING FACILITY PLAN (SRFP)</u></b></p>		<p>MEPC.210(63) APPENDIX 2</p>																
<p><u>Facility name and contact information</u></p> <table border="1"> <tr> <td colspan="2"><u>Facility name</u></td> </tr> <tr> <td colspan="2"><u>Registered address</u></td> </tr> <tr> <td colspan="2"><u>Facility address</u></td> </tr> <tr> <td colspan="2"><u>Representative and communication address</u></td> </tr> <tr> <td colspan="2"><u>Number of employees</u></td> </tr> <tr> <td><u>Tel. No.</u></td> <td><u>Fax No.</u></td> </tr> <tr> <td><u>E-mail address</u></td> <td><u>URL</u></td> </tr> <tr> <td colspan="2"><u>Working language</u></td> </tr> </table>			<u>Facility name</u>		<u>Registered address</u>		<u>Facility address</u>		<u>Representative and communication address</u>		<u>Number of employees</u>		<u>Tel. No.</u>	<u>Fax No.</u>	<u>E-mail address</u>	<u>URL</u>	<u>Working language</u>	
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**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<u>Anti-fouling compounds and system</u>	<u>removal</u> <u>storage</u> <u>process</u>	
<u>Cadmium and Cadmium Compounds</u>	<u>removal</u> <u>storage</u> <u>process</u>	
<u>Hexavalent Chromium and Hexavalent Chromium Compounds</u>	<u>removal</u> <u>storage</u> <u>process</u>	
<u>Lead and Lead Compounds</u>	<u>removal</u> <u>storage</u> <u>process</u>	
<u>Mercury and Mercury Compounds</u>	<u>removal</u> <u>storage</u> <u>treatment</u> <u>process</u>	
<u>Polybrominated Biphenyl (PBB)</u>	<u>removal</u> <u>storage</u> <u>treatment</u> <u>process</u>	
<u>Polybrominated Diphenyl Ethers (PBDE)</u>	<u>removal</u> <u>storage</u> <u>treatment</u> <u>process</u>	
<u>Polychlorinated Naphthalene's (more than 3chlorine atoms)</u>	<u>removal</u> <u>storage</u> <u>treatment</u> <u>process</u>	
<u>Radioactive substances removal</u>	<u>removal</u> <u>storage</u> <u>treatment</u> <u>process</u>	
<u>Certain Short-chain Chlorinated Paraffins(Alkanes, C10-C13, chloro)</u>	<u>removal</u> <u>storage</u> <u>treatment</u> <u>process</u>	
<u>Hazardous liquids, residues and sediments</u>	<u>removal</u> <u>storage</u>	

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended		Original		Remarks
		<u>treatment process</u>		
	<u>Paints and coatings that are highly flammable and/or lead to toxic release</u>	<u>removal storage treatment process</u>		
	<u>Other Hazardous Materials not listed above and that are not a part of the ship structure (specify)</u>	<u>removal storage treatment process</u>		
<u>Facility equipment and other information</u>				
<u>Area of Facility (m<sup>2</sup>)*</u>		<u>Area of pavement (m<sup>2</sup>)</u>		
<u>Description of Ship Recycling Facility (layout, water depth, accessibility, etc.)</u>				
<u>Heavy lifting machines</u>	<u>e.g. Jib crane: 60 tons</u> <u>Mobile crane: 35 tons × 1, 27 tons × 1</u> <u>Hydraulic backhoe: SH400, ZX330, SK220, ZX200 With Shear, Magnet</u> <u>Hydraulic shear: 600 tons × 1</u> <u>Weight bridge: 50 tons</u>			
<u>Boat</u>	<u>e.g. Gross tonnage: 5 tons, Power: 240 PS</u>			
<u>Shear</u>	<u>e.g. Capacity: 600 tons</u>			
<u>O2 supply</u>	<u>e.g. Liquid O2 supply system: 10 m<sup>3</sup></u>			
<u>Gas supply</u>	<u>e.g. LPG bottles</u>			
<u>Compressed air</u>				
<u>Fire extinguisher</u>	<u>e.g. Portable fire extinguisher</u>			
<u>Waste oil treatment</u>	<u>e.g. Oil water separation tank</u> <u>Tank capacity: about. 20 tons</u>			
<u>Wastes storage</u>	<u>e.g. Container for asbestos: 2</u>			
<u>Incinerator</u>	<u>e.g. None</u>			
<u>Electric power supply</u>	<u>e.g. Substation</u>			
<u>Location</u>				
<u>Division and classification of the location</u>	<u>e.g. Urbanization control area</u>			

### Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

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Amended		Original		Remarks
<u>Field of services</u>				
<u>Licences for services</u>				
<u>Number of employees</u>				
<u>Tel. No.</u>		<u>Fax No.</u>		
<u>E-mail address</u>		<u>URL</u>		

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## Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p><u>Location Map</u>  <u>Yard plan (examples)</u>  <u>Yard plan should be included in the facility information.</u></p>		

### Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p>The effective date of the establishment is according to EFFECTIVE DATE AND APPLICATION (A)</p>		



Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p align="center"><b>REGULATIONS FOR THE CLASSIFICATION AND REGISTRY OF SHIPS</b></p> <p align="center"><b>Chapter 3 REGISTRATION OF INSTALLATIONS</b></p> <p><b>3.1 Installations Registration</b></p> <p><b>3.1.1 General*</b> Installations indicated in (1) to <u>(16)</u> hereunder of the ship to be registered or registered under 2.1 will be assigned characters and registered in the Installations Register defined in 3.1.4 when the installations have been surveyed for registration by the Surveyors in accordance with the rules for the survey and construction of installations provided separately (hereinafter referred to as “the Installation Rules”) and found by the Society to be in compliance with the requirements of the Installation Rules. However, the Society may refuse the registration of installations regardless of the results of the survey in accordance with 1.4-3 of the <b>Conditions of Service for Classification of Ships and Registration of Installations.</b></p> <ul style="list-style-type: none"> <li>(1) Cargo Refrigerating Installations</li> <li>(2) Cargo Handling Appliances</li> <li>(3) Marine Pollution Prevention Installations</li> <li>(4) Safety Equipment</li> <li>(5) Radio Installations</li> <li>(6) Automatic and Remote Control Systems</li> <li>(7) Navigation Bridge Systems</li> </ul>	<p align="center"><b>REGULATIONS FOR THE CLASSIFICATION AND REGISTRY OF SHIPS</b></p> <p align="center"><b>Chapter 3 REGISTRATION OF INSTALLATIONS</b></p> <p><b>3.1 Installations Registration</b></p> <p><b>3.1.1 General*</b> Installations indicated in (1) to <u>(15)</u> hereunder of the ship to be registered or registered under 2.1 will be assigned characters and registered in the Installations Register defined in 3.1.4 when the installations have been surveyed for registration by the Surveyors in accordance with the rules for the survey and construction of installations provided separately (hereinafter referred to as “the Installation Rules”) and found by the Society to be in compliance with the requirements of the Installation Rules. However, the Society may refuse the registration of installations regardless of the results of the survey in accordance with 1.4-3 of the <b>Conditions of Service for Classification of Ships and Registration of Installations.</b></p> <ul style="list-style-type: none"> <li>(1) Cargo Refrigerating Installations</li> <li>(2) Cargo Handling Appliances</li> <li>(3) Marine Pollution Prevention Installations</li> <li>(4) Safety Equipment</li> <li>(5) Radio Installations</li> <li>(6) Automatic and Remote Control Systems</li> <li>(7) Navigation Bridge Systems</li> </ul>	

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p>(8) Diving Systems                      (9) Preventive Machinery Maintenance Systems                      (10) Integrated Fire Control Systems                      (11) Hull Monitoring System                      (12) Anti-Fouling Systems on Ships                      (13) Centralized Cargo Monitoring and Control Systems                      (14) Ballast Water Management Installations  <u>(15) Inventory of Hazardous Materials</u>  <u>(16) Other installations deemed appropriate by the Society</u></p> <p><b>3.1.2 Installations Character(s)*</b>                      1 The installations applicable to 3.1.1 will be distinguished by the following characters (hereinafter referred to as “Installations Character(s)”)</p> <p>(1) RMC and RMC·CA: Installations in 3.1.1(1)                      (2) CHG: Installations in 3.1.1(2)                      (3) MPP: Installations in 3.1.1(3)                      (4) LSA: Installations in 3.1.1(4)                      (5) RCF: Installations in 3.1.1(5)                      (6) MC, M0, M0·A, M0·B, M0·C, and M0·D: Installations in 3.1.1(6)                      (7) BRS, BRS1, and BRS1A: Installations in 3.1.1(7)                      (8) DVS: Installations in 3.1.1(8)                      (9) PMM: Installations in 3.1.1(9)                      (10) IFC·M, IFC·A, and IFC·AM: Installations in 3.1.1(10)                      (11) HMS, HMS·R: Installations in 3.1.1(11)                      (12) AFS and AFS·C: Installations in 3.1.1(12)                      (13) CCM: Installations in 3.1.1(13)                      (14) BWM: Installations in 3.1.1(14)</p>	<p>(8) Diving Systems                      (9) Preventive Machinery Maintenance Systems                      (10) Integrated Fire Control Systems                      (11) Hull Monitoring System                      (12) Anti-Fouling Systems on Ships                      (13) Centralized Cargo Monitoring and Control Systems                      (14) Ballast Water Management Installations  <u>(15) Other installations deemed appropriate by the Society</u></p> <p><b>3.1.2 Installations Character(s)*</b>                      1 The installations applicable to 3.1.1 will be distinguished by the following characters (hereinafter referred to as “Installations Character(s)”)</p> <p>(1) RMC and RMC·CA: Installations in 3.1.1(1)                      (2) CHG: Installations in 3.1.1(2)                      (3) MPP: Installations in 3.1.1(3)                      (4) LSA: Installations in 3.1.1(4)                      (5) RCF: Installations in 3.1.1(5)                      (6) MC, M0, M0·A, M0·B, M0·C, and M0·D: Installations in 3.1.1(6)                      (7) BRS, BRS1, and BRS1A: Installations in 3.1.1(7)                      (8) DVS: Installations in 3.1.1(8)                      (9) PMM: Installations in 3.1.1(9)                      (10) IFC·M, IFC·A, and IFC·AM: Installations in 3.1.1(10)                      (11) HMS, HMS·R: Installations in 3.1.1(11)                      (12) AFS and AFS·C: Installations in 3.1.1(12)                      (13) CCM: Installations in 3.1.1(13)                      (14) BWM: Installations in 3.1.1(14)</p>	

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>(15)</u> IHM: Installations in <u>3.1.1(15)</u></p> <p><u>(16)</u> Installations in <u>3.1.1(16)</u> are to be given as appropriate</p> <p><b>2</b> A “*” mark may be added to the Installations Characters if the plans of the installations have been approved by the Society in accordance with the Installation Rules and when the installations have been surveyed for registration during construction by the Surveyors.</p>	<p><u>(15)</u> Installations in <u>3.1.1(15)</u> are to be given as appropriate</p> <p><b>2</b> A “*” mark may be added to the Installations Characters if the plans of the installations have been approved by the Society in accordance with the Installation Rules and when the installations have been surveyed for registration during construction by the Surveyors.</p>	

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Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p align="center"><b>REGULATIONS FOR THE ISSUE OF STATUTORY CERTIFICATES</b></p> <p><b>Chapter 2      CERTIFICATES AND THEIR VALIDITY</b></p> <p><b>2.1 Statutory Certificates</b></p> <p><b>2.1.1 Definitions</b>                      In these Regulations, “statutory certificates” mean the following certificates including those certificates of compliance required under the Conventions to be kept on board the ships:                      ((1) to (25) are omitted.)  <u>(26) International Certificate on Inventory of Hazardous Materials and Internatioal Ready for Recycling Certificate</u></p> <p><b>2.2 Validity of Statutory Certificates</b></p> <p><b>2.2.1 Validity</b>                      1 The validity of statutory certificates is to be as follows according to the kind of statutory certificate, and unless otherwise provided for by the flag state of the ship.                      ((1) to (20) are omitted.)  <u>(21) International Certificate on Inventory of Hazardous Materials: 5 years</u>  <u>(22) Internatioal Ready for Recycling Certificate: 3 month</u></p>	<p align="center"><b>REGULATIONS FOR THE ISSUE OF STATUTORY CERTIFICATES</b></p> <p><b>Chapter 2      CERTIFICATES AND THEIR VALIDITY</b></p> <p><b>2.1 Statutory Certificates</b></p> <p><b>2.1.1 Definitions</b>                      In these Regulations, “statutory certificates” mean the following certificates including those certificates of compliance required under the Conventions to be kept on board the ships:                      ((1) to (25) are omitted.)</p> <p><b>2.2 Validity of Statutory Certificates</b></p> <p><b>2.2.1 Validity</b>                      1 The validity of statutory certificates is to be as follows according to the kind of statutory certificate, and unless otherwise provided for by the flag state of the ship.                      ((1) to (20) are omitted.)</p>	

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p align="center"><b>Chapter 3    ISSUE OF STATUTORY CERTIFICATES</b></p> <p><b>3.1 Issue of Statutory Certificates</b></p> <p><b>3.1.1 General</b></p> <p>1 The builder, owner or master of a ship, who intends to obtain statutory certificates, is to present the Registry Certificate of the ship issued by the Government of the flag state, and submit an appropriate application form (e.g. <b>Form-1A, Form-2A or Form-3A</b>) to the Society. However, <u>the issue of the certificates specified in (1) to (5) are as follows:</u></p> <p>(1) <u>The certificates in compliance with the ISM Code: <b>Rules for the Audit and Registration of Safety Management Systems</b></u></p> <p>(2) <u>ISSC and Interim ISSC: <b>Rules for the Audit and Registration of Ship Security Management</b></u></p>	<p align="center"><b>Chapter 3    ISSUE OF STATUTORY CERTIFICATES</b></p> <p><b>3.1 Issue of Statutory Certificates</b></p> <p><b>3.1.1 General</b></p> <p>1 The builder, owner or master of a ship, who intends to obtain statutory certificates, is to present the Registry Certificate of the ship issued by the Government of the flag state, and submit an appropriate application form (e.g. <b>Form-1A, Form-2A or Form-3A</b>) to the Society. However, <u>compliance with the Rules for the Audit and Registration of Safety Management Systems is required for the issue of the certificates in compliance with the ISM Code prescribed in 2.1.1(12), compliance with the Rules for the Audit and Registration of Ship Security Management Systems is required for the issue of the ISSC and Interim ISSC prescribed in 2.1.1(13), compliance with the Rules for Marine Engine Emission Verification is required for the issuance of the Engine International Air Pollution Prevention Certificate prescribed in 2.1.1(17), and compliance with the Rules for the Inspection and Registration of Maritime Labour Systems is required for the issuance of the MLC and Interim MLC prescribed in 2.1.1(20).</u></p>	

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><b><u>Systems</u></b></p> <p>(3) <b><u>Engine International Air Pollution Prevention Certificate: Rules for Marine Engine Emission Verification</u></b></p> <p>(4) <b><u>MLC and Interim MLC: Rules for the Inspection and Registration of Maritime Labour Systems</u></b></p> <p>(5) <b><u>International Certificate on Inventory of Hazardous Materials and Internatioal Ready for Recycling Certificate: Rules for the Ship Recycling</u></b></p>		

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**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p align="center"><b>GUIDANCE FOR THE CLASSIFICATION AND REGISTRY OF SHIPS</b></p> <p align="center"><b>Chapter 2 CLASSIFICATION OF SHIPS</b></p> <p><b>2.1 Classification</b></p> <p><b>2.1.3 Class Notations</b></p> <p><b>1</b> Notations referred to in <b>2.1.3-1 of the Regulations for the Classification and Registry of Ships</b> are affixed to Classification Characters when the ship is registered and the provisions of special or additional requirements or the relaxation of conditions are applied.</p> <p><b>2</b> “A ship ... deemed appropriate by the Society” referred to in <b>2.1.3-1(4) of the Regulations for the Classification and Registry of Ships</b> means one of the following:</p> <ul style="list-style-type: none"> <li>(1) A ship whose main hull part is constructed of materials other than steel;</li> <li>(2) A ship whose scantlings have been approved by applying detailed structural analysis based on methods such as advanced direct calculation;</li> <li>(3) A ship which has been classified on the condition that a special scheme will be applied for the ship’s class maintenance surveys;</li> <li>(4) A ship which has been designed and built with novel design features not covered by the current Rules, and which has been classified applying special requirements;</li> </ul>	<p align="center"><b>GUIDANCE FOR THE CLASSIFICATION AND REGISTRY OF SHIPS</b></p> <p align="center"><b>Chapter 2 CLASSIFICATION OF SHIPS</b></p> <p><b>2.1 Classification</b></p> <p><b>2.1.3 Class Notations</b></p> <p><b>1</b> Notations referred to in <b>2.1.3-1 of the Regulations for the Classification and Registry of Ships</b> are affixed to Classification Characters when the ship is registered and the provisions of special or additional requirements or the relaxation of conditions are applied.</p> <p><b>2</b> “A ship ... deemed appropriate by the Society” referred to in <b>2.1.3-1(4) of the Regulations for the Classification and Registry of Ships</b> means one of the following:</p> <ul style="list-style-type: none"> <li>(1) A ship whose main hull part is constructed of materials other than steel;</li> <li>(2) A ship whose scantlings have been approved by applying detailed structural analysis based on methods such as advanced direct calculation;</li> <li>(3) A ship which has been classified on the condition that a special scheme will be applied for the ship’s class maintenance surveys;</li> <li>(4) A ship which has been designed and built with novel design features not covered by the current Rules, and which has been classified applying special requirements;</li> </ul>	

### Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
<p>(5) A ship which has taken measures of corrosion prevention in accordance with specified standards; or</p> <p>(6) A ship which has taken measures of noise prevention in accordance with specified standards.</p> <p><b>3</b> The notations referred to in <b>2.1.3-2 of the Regulations for the Classification and Registry of Ships</b> are affixed to Classification Characters according to the following <b>(1)</b> and <b>(2)</b>.</p> <p>(1) Based on the applications received from owners, the notations referred to in <b>(a)</b> to <b>(h)</b> are affixed to Classification Characters for the following ships according to the Guidelines issued separately by the Society or other guidelines deemed appropriate by the Society.</p> <p>(a) Ships which have taken particular measures for the environment in accordance with the minimum requirements or additional features specified in the Society’s “Environmental Guidelines”: <i>Environmental Awareness</i> (abbreviated as <i>EA</i>)</p> <p>(b) Ships adopting measures for the noise and vibration in accommodation spaces etc. specified in the Society’s “Noise and Vibration Guideline”: <i>Noise and Vibration Comfort</i> (abbreviated as <i>NVC</i>)</p>	<p>(5) A ship which has taken measures of corrosion prevention in accordance with specified standards; or</p> <p>(6) A ship which has taken measures of noise prevention in accordance with specified standards.</p> <p><b>3</b> The notations referred to in <b>2.1.3-2 of the Regulations for the Classification and Registry of Ships</b> are affixed to Classification Characters according to the following <b>(1)</b> and <b>(2)</b>.</p> <p>(1) Based on the applications received from owners, the notations referred to in <b>(a)</b> to <b>(i)</b> are affixed to Classification Characters for the following ships according to the Guidelines issued separately by the Society or other guidelines deemed appropriate by the Society.</p> <p>(a) Ships which have taken particular measures for the environment in accordance with the minimum requirements or additional features specified in the Society’s “Environmental Guidelines”: <i>Environmental Awareness</i> (abbreviated as <i>EA</i>)</p> <p><b>(b) Ships maintaining an “Inventory of Hazardous Materials for Ship Recycling” in accordance with the Society’s “Guidelines for the Inventory of Hazardous Materials”: <i>Inventory of Hazardous Materials</i> (abbreviated as <i>IHM</i>)</b></p> <p>(c) Ships adopting measures for the noise and vibration in accommodation spaces etc. specified in the Society’s “Noise and Vibration Guideline”: <i>Noise and Vibration Comfort</i> (abbreviated as <i>NVC</i>)</p>	



**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p><u>(c)</u> Ships adopting measures for the noise and vibration of machinery room installations specified in the Society’s “Noise and Vibration Guideline”: <i>Mechanical Vibration Awareness</i> (abbreviated as <i>MVA</i>)</p> <p><u>(d)</u> Ships installed with high voltage shore connection systems as a pollution abatement measure in ports in accordance with the Society’s “Guidelines for High Voltage Shore Connection Systems”: <i>High Voltage Shore Connection Systems</i> (abbreviated as <i>HVSS</i>)</p> <p><u>(e)</u> Ships adopting any of the following i) through iv) innovative measures.</p> <p>i) Ships which are provided with systems utilising digital technology (smart systems) in accordance with the Society’s “Guidelines for Digital Smart Ships”: <i>Digital Smart Ship (XX)</i> (abbreviated as <i>DSS(XX)</i> in which “XX” refers to the relevant smart system)</p> <p>ii) Ships which are provided with special environmental measures in accordance with the advanced environmental measures specified in the Society’s “Environmental Guidelines”: <i>Advanced Environmental Awareness (XX)</i> (abbreviated as <i>a-EA(XX)</i> in which “XX” refers to the relevant environmental measure)</p> <p>iii) Ships which are provided with special safety measures in accordance with the</p>	<p><u>(d)</u> Ships adopting measures for the noise and vibration of machinery room installations specified in the Society’s “Noise and Vibration Guideline”: <i>Mechanical Vibration Awareness</i> (abbreviated as <i>MVA</i>)</p> <p><u>(e)</u> Ships installed with high voltage shore connection systems as a pollution abatement measure in ports in accordance with the Society’s “Guidelines for High Voltage Shore Connection Systems”: <i>High Voltage Shore Connection Systems</i> (abbreviated as <i>HVSS</i>)</p> <p><u>(f)</u> Ships adopting any of the following i) through iv) innovative measures.</p> <p>i) Ships which are provided with systems utilising digital technology (smart systems) in accordance with the Society’s “Guidelines for Digital Smart Ships”: <i>Digital Smart Ship (XX)</i> (abbreviated as <i>DSS(XX)</i> in which “XX” refers to the relevant smart system)</p> <p>ii) Ships which are provided with special environmental measures in accordance with the advanced environmental measures specified in the Society’s “Environmental Guidelines”: <i>Advanced Environmental Awareness (XX)</i> (abbreviated as <i>a-EA(XX)</i> in which “XX” refers to the relevant environmental measure)</p> <p>iii) Ships which are provided with special safety measures in accordance with the</p>	

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
<p>Society’s “Guidelines for Advanced Safety Measures”: <i>Advanced Safety (XX)</i> (abbreviated as <i>a-SAFE(XX)</i> in which “XX” refers to the relevant safety measure)</p> <p>iv) Ships which are provided with facilities to improve the living and working environment on board in accordance with the Society’s “Guidelines for Excellent Living and Working Environment”: <i>Excellent Living and Working Environment (XX)</i> (abbreviated as <i>ELW(XX)</i> in which “XX” refers to the relevant facility)</p> <p><u>(f)</u> Ships which have taken particular cyber security measures in accordance with the Society’s “Guidelines for Designing Cyber Security Onboard Ships”: <i>Cyber Resilience-Guideline</i> (abbreviated as <i>CybR-G</i>)</p> <p><u>(g)</u> Ships whose Energy Efficiency Design Index satisfies a required value calculated using a phase reduction factor which is stricter than the phase to be applied are to be in accordance with <b>1.1.4-1, Part 1 of the Rules for Marine Pollution Prevention Systems.</b></p> <p><u>(h)</u> Other ships deemed necessary by the Society to be affixed with special notation.</p> <p>(Omitted)</p>	<p>Society’s “Guidelines for Advanced Safety Measures”: <i>Advanced Safety (XX)</i> (abbreviated as <i>a-SAFE(XX)</i> in which “XX” refers to the relevant safety measure)</p> <p>iv) Ships which are provided with facilities to improve the living and working environment on board in accordance with the Society’s “Guidelines for Excellent Living and Working Environment”: <i>Excellent Living and Working Environment (XX)</i> (abbreviated as <i>ELW(XX)</i> in which “XX” refers to the relevant facility)</p> <p><u>(g)</u> Ships which have taken particular cyber security measures in accordance with the Society’s “Guidelines for Designing Cyber Security Onboard Ships”: <i>Cyber Resilience-Guideline</i> (abbreviated as <i>CybR-G</i>)</p> <p><u>(h)</u> Ships whose Energy Efficiency Design Index satisfies a required value calculated using a phase reduction factor which is stricter than the phase to be applied are to be in accordance with <b>1.1.4-1, Part 1 of the Rules for Marine Pollution Prevention Systems.</b></p> <p><u>(i)</u> Other ships deemed necessary by the Society to be affixed with special notation.</p> <p>(Omitted)</p>	

**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

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<p><b>Chapter 3 REGISTRATION OF INSTALLATIONS</b></p> <p><b>3.1 Installations Registration</b></p> <p><b>3.1.1 General</b>                      “The rules for the survey and construction of installations provided separately” referred to in <b>3.1.1 of the Regulations</b> are the Society’s technical rules given in <b>Table 1</b> of this Guidance.</p>	<p><b>Chapter 3 REGISTRATION OF INSTALLATIONS</b></p> <p><b>3.1 Installations Registration</b></p> <p><b>3.1.1 General</b>                      “The rules for the survey and construction of installations provided separately” referred to in <b>3.1.1 of the Regulations</b> are the Society’s technical rules given in <b>Table 1</b> of this Guidance.</p>																																	
<p><b>Table 1 Rules for the Survey and Construction of Installations</b></p> <table border="1"> <thead> <tr> <th align="center">Name of Installations</th> <th align="center">Name of Rules</th> </tr> </thead> <tbody> <tr> <td>Cargo Refrigerating Installations</td> <td><b>Rules for Cargo Refrigerating Installations</b></td> </tr> <tr> <td>Cargo Handling Appliances</td> <td><b>Rules for Cargo Handling Appliances</b></td> </tr> <tr> <td>Marine Pollution Prevention Installations</td> <td><b>Rules for Marine Pollution Prevention Systems</b></td> </tr> <tr> <td>Safety Equipment</td> <td><b>Rules for Safety Equipment</b></td> </tr> <tr> <td>Radio Installations</td> <td><b>Rules for Radio Installations</b></td> </tr> <tr> <td>Automatic and Remote Control Systems</td> <td><b>Rules for Automatic and Remote Control Systems</b></td> </tr> <tr> <td>Navigation Bridge Systems</td> <td><b>Rules for Navigation Bridge Systems</b></td> </tr> <tr> <td>Diving Systems</td> <td><b>Rules for Diving Systems</b></td> </tr> <tr> <td>Preventive Machinery Maintenance Systems</td> <td><b>Rules for Preventive Machinery Maintenance Systems</b></td> </tr> <tr> <td>Integrated Fire Control Systems</td> <td><b>Rules for Integrated Fire Control Systems</b></td> </tr> <tr> <td>Hull Monitoring Systems</td> <td><b>Rules for Hull Monitoring Systems</b></td> </tr> <tr> <td>Anti-Fouling Systems on Ships</td> <td><b>Rules for Anti-Fouling Systems on Ships</b></td> </tr> <tr> <td>Centralized Cargo Monitoring and Control Systems</td> <td><b>Rules for Centralized Cargo Monitoring and Control Systems</b></td> </tr> <tr> <td>Ballast Water Management Installations</td> <td><b>Rules for Ballast Water Management Installations</b></td> </tr> <tr> <td>Inventory of Hazardous Materials</td> <td><b>Rules for Ship Recycling</b></td> </tr> </tbody> </table>			Name of Installations	Name of Rules	Cargo Refrigerating Installations	<b>Rules for Cargo Refrigerating Installations</b>	Cargo Handling Appliances	<b>Rules for Cargo Handling Appliances</b>	Marine Pollution Prevention Installations	<b>Rules for Marine Pollution Prevention Systems</b>	Safety Equipment	<b>Rules for Safety Equipment</b>	Radio Installations	<b>Rules for Radio Installations</b>	Automatic and Remote Control Systems	<b>Rules for Automatic and Remote Control Systems</b>	Navigation Bridge Systems	<b>Rules for Navigation Bridge Systems</b>	Diving Systems	<b>Rules for Diving Systems</b>	Preventive Machinery Maintenance Systems	<b>Rules for Preventive Machinery Maintenance Systems</b>	Integrated Fire Control Systems	<b>Rules for Integrated Fire Control Systems</b>	Hull Monitoring Systems	<b>Rules for Hull Monitoring Systems</b>	Anti-Fouling Systems on Ships	<b>Rules for Anti-Fouling Systems on Ships</b>	Centralized Cargo Monitoring and Control Systems	<b>Rules for Centralized Cargo Monitoring and Control Systems</b>	Ballast Water Management Installations	<b>Rules for Ballast Water Management Installations</b>	Inventory of Hazardous Materials	<b>Rules for Ship Recycling</b>
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Amended-Original Requirements Comparison Table (The Ship Recycling Convention)

Amended	Original	Remarks
The effective date of the amendment is according to EFFECTIVE DATE AND APPLICATION (B)		

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**Amended-Original Requirements Comparison Table (The Ship Recycling Convention)**

Amended	Original	Remarks
EFFECTIVE DATE AND APPLICATION (A)		
<p>1. The effective date of the establishment is 26 June 2025.</p>		
EFFECTIVE DATE AND APPLICATION (B)		
<p>1. The effective date of the amendments is 26 June 2025.</p>		

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