The Ship Recycling Convention

Object of Amendment

Rules for Ship Recycling (Establishment)
Guidance for Ship Recycling (Establishment)
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 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 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.

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

ID: DX24-13

Amended Amended	Original	Remarks
		Remarks
RULES FOR THE SHIP RECYCLING	(Establishment)	
Part 1 GENERAL		
Chapter 1 General		
Chapter 1 General		
1.1 General		
1.1.1 Application		
1 The Rules for Ship Recycling (hereinafter referred to as "the		- Convention ARTICLE 3
Rules") apply to the ships classed or to be classed with NIPPON		Para.1.1
KAIJI KYOKAI (hereinafter referred to as "the Society") under		
Chapter 2 of the Regulations for the Classification and Registry		
of Ships.		
2 Notwithstanding -1 above, the Rules do not apply to the		- Convention ARTICLE 3
following ships:		Para.2 and Para.3
(1) Ships less than 500 gross tonnage;		
(2) 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		
(3) Ships owned or operated by a Party and used only on		
government non-commercial service.		
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.		

	omparison Table (Test blocks for steel castings and othe	/
Amended	Original	Remarks
1.1.2 Equivalents Ships which do not comply with the Rules may be accepted provided that they are deemed by the Society to be equivalent to those ships that do.		
1.1.3 National Requirements With respect to the recycling of ships, attention is to be paid to ensuring compliance with not only relevant international conventions but also the national regulations of the country in which ships registered, in addition to the Rules. The Society may also apply special requirements as instructed by the flag-state administrations of ships or the governments of sovereign nations in which ships navigate.		- Conventon ANNEX Reg.3
1.1.4 Notation Based on 3.1, Rules for the Classification and Registry of Ships, the notation "Inventory of Hazardous Materials" (abbreviated as IHM) is to be affixed to the installations characters of ships provided with an Inventory of Hazardous Materials (hereinafter referred to as "the IHM") Part I specified in Part 2. 1.2 Terms and Definitions		
1.2.1 Terminology* The terms used throughout the Rules are, as defined in the following (1) to (33) unless specified otherwise: (1) "Administration" means the Government of the State whose flag the ship is entitled to fly, or under whose authority it is operating.		 Convention ARTICLE 2 Para.2 Convention ARTICLE 2 Para.3

	Amended	Original	Remarks
(2)	"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		G
	Recycling Convention.		- Convention ARTICLE 2 Para.7
(3)	"Ship" means a vessel of any type whatsoever operating or		1 ata./
	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.		- Convention ARTICLE 2
<u>(4)</u>	"Gross tonnage" means the gross tonnage (GT) calculated		Para.8
	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.		- Convention ARTICLE 2
<u>(5)</u>	"Hazardous Material" means any material or substance		Para.9
	which is liable to create hazards to human health and/or the		
(0)	environment.		- Convention ARTICLE 2
(6)	"Ship Recycling" means the activity of complete or partial		Para.10
	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		- Convention ARTICLE 2
(7)	further processing or disposal in separate facilities.		Para.11
(7)	"Ship Recycling Facility" means a defined area that is a site, yard or facility used for the recycling of ships.		
	site, yard or facility used for the recycling of snips.		- Convention ARTICLE 2

		emparison Table (Test blocks for steel castings and other	/
	Amended	Original	Remarks
<u>(8)</u> "1	Recycling Company" means the owner of the Ship		Para.12
<u>R</u>	Recycling Facility or any other organization or person who		
<u>h</u> :	as assumed the responsibility for operation of the Ship		
<u>R</u>	Recycling activity from the owner of the Ship Recycling		
<u>F</u>	facility and who on assuming such responsibility has		
<u>aş</u>	greed to take over all duties and responsibilities imposed		- Convention ANNEX
<u>b</u>	y the Ship Recycling Convention.		Reg.1.1
<u>(9)</u> "(Competent person" means a person with suitable		Č
<u>q</u> ı	ualifications, training, and sufficient knowledge,		
<u>e</u>	xperience and skill, for the performance of the specific		
W	vork. Specifically, a competent person may be a trained		
W	vorker or a managerial employee capable of recognizing		
_	nd evaluating occupational hazards, risks, and employee		
<u>e</u>	xposure to potentially Hazardous Materials or unsafe		
CO	onditions in a Ship Recycling Facility, and who is capable		
	f specifying the necessary protection and precautions to be		
	aken to eliminate or reduce those hazards, risks, or		
	xposures. The Competent Authority may define		
	ppropriate criteria for the designation of such persons and		G AND TEXT
	nay determine the duties to be assigned to them.		- Convention ANNEX Reg.1.2
~ -	Employer' means a natural or legal person that employs		105.1.2
	ne or more workers engaged in Ship Recycling.		- Convention ANNEX
	New ship" means a ship:		Reg.1.4
<u>(a</u>	a) For which the building contract is placed on or after 26		
	June 2025 (the entry into force of Ship Recycling		
	Convention); or		
<u>(t</u>	b) 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>(c</u>	c) The delivery of which is on or after 26 December		

Amended	Original	Remarks
2027. (12) "Existing ship" means a ship which is not a new ship specified in (11).		- Convention ANNEX Reg.1.3 - Convention ANNEX
(13) "New installation" means the installation of systems, equipment, insulation, or other material on a ship after 26 June 2025.		Reg.1.5
(14) "Safe-for-entry" means a space that meets the following criteria: (a) The oxygen content of the atmosphere and the concentration of flammable vapours are within safe limits.		- Convention ANNEX Reg.1.6
(b) Any toxic materials in the atmosphere are within permissible concentrations. (c) 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. (15) "Safe-for-hot-work" means a space that meets the		
following criteria: (a) A safe, non-explosive condition, including 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		- Convention ANNEX Reg.1 Para.7
 spark generating operations. (b) Safe-for-entry requirements of (14) above are met. (c) Existing atmospheric conditions will not change as a result of the hot work. 		
(d) All adjacent spaces have been cleaned, or inerted, or treated sufficiently to prevent the start or spread of fire.		

Amended	Original	Remarks
(16) "Shipowner" means the person or persons or company		- Convention ANNEX
registered as the owner of the ship or, in the absence of		Reg.1.8
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.		
(17) "Site Inspection" means an inspection of the Ship		- Convention ANNEX
Recycling Facility confirming the condition described by		Reg.1 Para.9
the verified documentation.		
(18) "Statement of Completion" means a confirmatory		- Convention ANNEX
statement issued by the Ship Recycling Facility that the		Reg.1 Para.10
Ship Recycling has been completed in accordance with the		
Ship Recycle Convention.		- Convention ANNEX
(19) "Tanker" means an oil tanker as defined in MARPOL		Reg.1 Para.11
annex I or an NLS tanker as defined in MARPOL annex II.		-MEPC.379(80)
(20) "Worker" means any person who performs work, either		Para.1.3, Para.3.1
regularly or temporarily, in the context of an employment		
relationship including contractor personnel.		
(21) 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:		
Part I: Materials contained in ship structure or equipment		
Part II: Operationally generated wastes		
Part III: Stores		

Amended	Original	Remarks
(22) "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.		
(23) "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.		
(24) "Exemption" means materials that do not need to be listed		
on the IHM, even if such materials or items exceed the		
IHM threshold values.		
(25) "Fixed" means the conditions that equipment or 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.		
(26) "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.		
(27) "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		
<u>lifebuoys.</u>		
(28) "Product" means machinery, equipment, materials and		
applied coatings on board a ship.		
(29) "Supplier" means a company which provides products; it		
may be a manufacturer, trader or agency.		
(30) "Supply chain" means the series of entities involved in the		

Amended	Original	Remarks
supply and purchase of materials and goods, from raw		
materials to final product.		
(31) "Threshold value" is defined as the concentration value in		
homogeneous materials.		
(32) "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 facility can safely handle and the control of		
Hazardous Materials.		
(33) "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.		
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1.2.2 Abbreviations Find a property of the Police of the City of the projections and the City of the		- Convention ARTICLE 2
For the purpose of the Rules, the following abbreviations apply:		Para.4
(1) IMO: International Maritime Organization (2) MEDC: Marina Environment Protection Committee of the		- Convention ARTICLE 2
(2) MEPC: Marine Environment Protection Committee of the		Para.6
<u>IMO</u>		

Amended	Original	Remarks
Part 2 REQUIREMNTS FOR THE INVENTORY		
OF HAZARDOUS MATERIALS		
Chapter 1 GENERAL		
Chapter 1 GENERAL		
1.1 General (Paragraph 1 of MEPC.379(80) ANNEX)		
1.1.1 Objectives of the Inventory of Hazardous Materials		
(Paragraph 1.3 of MEPC.379(80) ANNEX)		MEDG 270(00) D 1 2
The objectives of the IHM are to provide ship-specific		- MEPC.379(80) Para1.3
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.		
1.1.2 Application (<i>Paragraph</i> 1.2 of <i>MEPC</i> .379(80)		
ANNEX)		
This part applies to IHM prepared by relevant stakeholders		- MEPC.379(80) Para1.2
(shipyards, equipment suppliers, repairers, shipowners and ship		
management companies) for the ships specified in 1.1.1-1(1), Part 1.		

Amended	Original	Remarks
Chapter 2 THE INVENTORY OF HAZARDOUS	-	
MATERIALS		
2.1 The Inventory of Hazardous Materials		
2.1 The Inventory of Hazardous Materials (Paragraph 3 of MEPC.379(80) ANNEX)		
The agraph of the constant		
2.1.1 Components of the Inventory of Hazardous Materials (Paragraph 3.1 of MEPC.379(80) ANNEX)		
The IHM consists of the following three components.		- MEPC379(80) Para.3.1
(1) Part <i>I</i> : Materials contained in ship structure or equipment		
(2) Part <i>II</i> : Operationally generated wastes		
(3) Part III: Stores		
2.1.2 Materials be Listed in the Inventory of Hazardous		
Materials (<i>Paragraph</i> 3.2 of <i>MEPC</i> .379(80) <i>ANNEX</i>) The following (1) to (4) materials are to be listed on the		- MEPC379(80) Para.3.2.1
IHM.		17221 00 / 5 (00) 1 02000 1201
(1) Hazardous Materials listed in Table 2.1.2-1 for which are		
installation and use are prohibited or restricted.		
(2) Hazardous Materials listed in Table 2.1.2-2 for which		
listing on the IHM is required when exceeding specified		
thresholds.		
(3) Potentially Hazardous Materials listed in Table 2.1.2-3.		
(4) Regular consumable goods which potentially contain		
Hazardous Materials listed in Table 2.1.2-4.		MEDC270(90) Dom 2.2.2
2 Materials specified in -1(1) and -1(2) above are to be listed		- MEPC379(80) Para.3.2.2
in Part <i>I</i> of the IHM, materials specified in -1(3) above are to be listed in Part <i>II</i> and Part <i>III</i> of the IHM and materials specified in		
-1(4) above are to be listed in Part /// of the IHM		
-1(+) above are to be listed in 1 art m of the 11 livi	<u> </u>	

Amended	Original	Remarks
3 For loosely fitted equipment, there is no need to list this in		- MEPC379(80) Para.3.2.3
Part I of the IHM. Such equipment which remains on board when		
the ship is recycled is to be listed in Part III.		
4 Those batteries containing lead acid or other Hazardous		- MEPC379(80) Para.3.2.4
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.		
5 Similar materials or items that contain Hazardous Materials		- MEPC379(80) Para.3.2.5
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'').		

Table 2.1.2-1 Hazardous Materials which Installation and Use is Restricted or Prohibited Materials Threshold value		Amended	Original	Remarks
Asbestos O.1 % (!)		Table 2.1.2-1 Hazardous Materials which	Installation and Use is Restricted or Prohibited	- Convention APPENDIX
Asbestos 0.1%(1) Polychlorinated biphenyls (PCB) 50 mg/kg (2) Chlorofluorocarbons (CFC) Halons Ozone-depleting substances Under fully halogenated CFC Carbon tetrachloride 1.1,1-Trichloroethane (Methyl chloroform) Hydrochlorofluorocarbons Hydrobromofluorocarbons Methyl bromide Bromochloromethane Anti-fouling systems containing organotin compounds as a biocide Domewhat Displayed (Methyl bromide) 2.500 mg total tin /kg		<u>Materials</u>	Threshold value	` /
Chlorofluorocarbons (CFC) Halons Other fully halogenated CFC Carbon tetrachloride 1.1,1-Trichloroethane (Methyl chloroform) Hydrochlorofluorocarbons Hydrobromofluorocarbons Methyl bromide Bromochloromethane Anti-fouling systems containing organotin compounds as a biocide Chlorofluorocarbons (CFC) Halons No threshold value (3) No threshold value (3) No threshold value (3)	Asbestos		0.1%(1)	7 HTENDET Tuble 7
Halons Other fully halogenated CFC Carbon tetrachloride 1,1,1-Trichloroethane (Methyl chloroform) Hydrochlorofluorocarbons Hydrobromofluorocarbons Methyl bromide Bromochloromethane Anti-fouling systems containing organotin compounds as a biocide No threshold value (3) No threshold value (3) No threshold value (3) No threshold value (3)	Polychlorinated bi	iphenyls (PCB)	50 mg/kg ⁽²⁾	
Ozone-depleting substances Ozone-depleting substances 1,1,1-Trichloroethane (Methyl chloroform) Hydrochlorofluorocarbons Hydrobromofluorocarbons Methyl bromide Bromochloromethane Anti-fouling systems containing organotin compounds as a biocide 7,500 mg total tin /kg		Chlorofluorocarbons (CFC)		
Ozone-depleting substances Carbon tetrachloride 1.1.1-Trichloroethane (Methyl chloroform) No threshold value (3)		<u>Halons</u>		
Ozone-depleting substances 1,1,1-Trichloroethane (Methyl chloroform)		Other fully halogenated CFC		
Substances Hydrochlorofluorocarbons Hydrochlorofluorocarbons Hydrobromofluorocarbons Methyl bromide Bromochloromethane Anti-fouling systems containing organotin compounds as a biocide 2,500 mg total tin /kg		<u>Carbon tetrachloride</u>		
Hydrochlorofluorocarbons Hydrobromofluorocarbons Methyl bromide Bromochloromethane Anti-fouling systems containing organotin compounds as a biocide 2,500 mg total tin /kg	- III-Inchloroe	1,1,1-Trichloroethane (Methyl chloroform)	No threshold value (3)	
Methyl bromide Bromochloromethane Anti-fouling systems containing organotin compounds as a biocide 2,500 mg total tin /kg	<u>suosianees</u>	<u>Hydrochlorofluorocarbons</u>		
Bromochloromethane Anti-fouling systems containing organotin compounds as a biocide 2,500 mg total tin /kg		<u>Hydrobromofluorocarbons</u>		
Anti-fouling systems containing organotin compounds as a biocide 2,500 mg total tin /kg		Methyl bromide		
		<u>Bromochloromethane</u>		
Anti-fouling systems containing cybutryne 1,000 mg/kg or 200 mg/kg (4)	Anti-fouling syste	ms containing organotin compounds as a biocide	2,500 mg total tin/kg	
	Anti-fouling syste	ems containing cybutryne	1,000 mg/kg or 200 mg/kg (4)	
		•	-	
(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.				
 (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. 		* * * * * * * * * * * * * * * * * * * *	- · · · · · · · · · · · · · · · · · · ·	<u>ples</u>
(2) For all ships, new installation of materials which contain polychlorinated biphenyls (PCB) are to be prohibited.	are direct	<u>try taken from the wet paint containers, average values of cybutryn</u>	ne snouid not be present above 200 mg of cybutryne per kilogram of dry paint.	

Amended	Original	Remarks
Table 2.1.2-2 Hazardous Materials which are to b	be Listed in the IHM when Exceeding the Threshold	- Convention APPENDIX 2
<u>Materials</u>	Threshold value	- MEPC.379(80) APPENDIX 1 Table B
Cadmium and cadmium compounds	<u>100 mg/kg</u>	
Hexavalent chromium and hexavalent chromium compounds	1,000 mg/kg	
<u>Lead and lead compounds</u>	<u>1,000 mg/kg</u>	
Mercury and mercury compounds	1,000 mg/kg	
Polybrominated biphenyl (PBB)	<u>50 mg/kg</u>	
Polybrominated diphenyl ethers (PBDE)	1,000 mg/kg	
Polychlorinated naphthalenes (more than 3 chlorine atoms)	<u>50 mg/kg</u>	
Radioactive substances	No threshold value (1)	
Certain short-chain chlorinated paraffins (alkanes, C10-C13, chloro	1%	
Note:		
(1) All radioactive sources should be included in the MD permanently sealed in a capsule or closely bonded and i		
**		

	Amer	nded	-		Original		 Remarks
		Table 2.1.2-3 Potentia	ılly Hazardous N	<u>Materials</u>			- MEPC.379(80)
n	ı·	Maria.		<u>Inventory</u>			APPENDIX 1 Table C
<u>Pr</u>	roperties	<u>Materials</u>		Part I	Part II	Part III	
		<u>Kerosene</u>				<u>O</u>	
		White spirit				<u>O</u>	
		<u>Lubricating oil</u>				<u>O</u>	
		Hydraulic oil				<u>O</u>	
		Anti-seize compounds				<u>O</u>	
		<u>Fuel additive</u>				<u>O</u>	
		Engine coolant additives				<u>O</u>	
		Antifreeze fluids				<u>O</u>	
<u>Liquid</u>	<u>Oiliness</u>	Boiler and feed water treatment and test re-agen	<u>ts</u>			<u>O</u>	
		De-ionizer regenerating chemicals				<u>O</u>	
		Evaporator dosing and descaling acids				<u>O</u>	
		Paint stabilizers/rust stabilizers				<u>O</u>	
		Solvents/thinners				<u>O</u>	
		<u>Paints</u>				<u>O</u>	
		Chemical refrigerants				<u>O</u>	
		Battery electrolyte				<u>O</u>	
		Alcohol, methylated spirits				<u>O</u>	
		Acetylene				<u>O</u>	
	Explosives /	<u>Propane</u>				<u>O</u>	
	<u>inflammables</u>	Butane				<u>O</u>	
		<u>Oxygen</u>				<u>O</u>	
Gas		<u>CO2</u>				0	
<u> </u>	<u> </u>	Perfluorocarbons (PFC)				0	
	Green house	<u>Methane</u>				<u>O</u>	
	<u>Gasses</u>	Hydrofluorocarbon (HFC)				0	
		Nitrous oxide (N_2O)				<u>O</u>	
		Sulphur hexafluoride (SF ₆)				<u>O</u>	

	Amended Amended	(Original		Remarks
	Bunkers: fuel oil			<u>O</u>	
	Grease			<u>O</u>	
l oi	iliness Waste oil (sludge)		<u>O</u>		
	Bilge and/or wastewater generated by the after	r-treatment systems	<u>O</u>		
<u>Liquid</u>	<u>fitted on machineries</u>				
<u> </u>	Oily liquid cargo tank residues		<u>O</u>		
	<u>Ballast water</u>		<u>O</u>		
	Raw sewage		<u>O</u>		
	<u>Treated sewage</u>		<u>O</u>		
	Non-oily liquid cargo residues		<u>O</u>		
	hosives / Fuel gas Fuel gas			<u>O</u>	
	Dry cargo residues		<u>O</u>		
	Medical waste/infectious waste		<u>O</u>		
	Incinerator ash *1		<u>O</u>		
	Garbage *2		<u>O</u>		
	<u>Fuel tank residues</u>		<u>O</u>		
	Oily solid cargo tank residues				
	Oily or chemical contaminated rags		<u>O</u>		
	Batteries (incl. lead acid batteries)		<u>O</u>		
	Pesticides/insecticide sprays			<u>O</u>	
<u>Solid</u>	<u>Extinguishers</u>			<u>O</u>	
	Chemical cleaner(incl. electrical equipmen	at cleaner, carbon		<u>O</u>	
	Detergent/bleacher (could be a liquid)			<u>O</u>	
	Miscellaneous medicines			<u>O</u>	
	Fire-fighting clothing and personal protective ec	quipment		<u>O</u>	
	Dry tank residues		<u>O</u>		
	<u>Cargo residues</u>		<u>O</u>		
	Spare parts which contain materials listed in Table 2.1.2-2.	1 Table 2.1.2-1 or		<u>O</u>	

Amended-Original Requirements C	omparisc	m rable (1	est blocks	for steer castings and of	ileis)
Amended			Origir	nal	Remarks
Notes: *1 Incinerator ash is classified separately because it may include hat *2 "Garbage" means all food wastes, domestic wastes, operational and animal carcasses generated during the normal operation of the Table 2.1.2-4 Regular Consumable Good	l wastes, plastic he ship and liabl	s, cargo residues, in e to be continuous	ncinerator ashes, co y or periodically dis	sposed.	- MEPC.379(80)
<u>Properties</u>		Inventory	D (III		APPENDIX 1 Table D
	Part I	Part II	<u>Part ///</u>		
Electrical and electronic equipment			<u>O</u>		
Lighting equipment			<u>O</u>		
Non-ship-specific furniture, interior and similar equipment			<u>O</u>		
*1 This table does not include ship-specito be listed in part I of the IHM. 2.1.3 Exemptions - Materials not Required to be Listed in the Inventory (Paragraph 3.3 of MEPC.379(80) ANNEX)		tegral to ship opera	ations, which has		
1 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	2				- MEPC.379(80) Para.3.3.1
machinery, are not required to be listed in the IHM. 2 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.	<u>'</u>				- MEPC.379(80) Para.3.3.2

Amended	Original	Remarks
2.1.4 Standard Format of the Inventory of Hazardous Materials The IHM is to be developed on the basis of the standard format set out in Annex 2-2.		- MEPC.379(80) Para.3.4
2.1.5 Revision of Threshold Values (Paragraph 3.5 of MEPC.379(80) ANNEX) 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.		- MEPC.379(80) Para.3.5

Amended	Original	Remarks
	Original	Remarks
Chapter 3 REQUIREMENTS FOR		
<u>DEVELOPMENT OF THE INVENTORY</u>		
3.1 Development of Part <i>I</i> of the Inventory of Hazardous		
Materials for New Ships (Paragraph 4.1 of		
<u>MEPC,379(80)</u> ANNEX)		
211 Conord		
3.1.1 General 1 Post Lef the IHM for pays thing is to be developed at the		- MEPC.379(80) Para.4.1.1
<u>1</u> Part <i>I</i> of the IHM for new ships is to be developed at the design and construction stage.		1VIEA C.577(00)1 did.4.1.1
		- MEPC.379(80) Para.4.1.2
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;		1VIEA C.577(00)1 did.4.1.2
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		
spare parts containing materials listed in Table 2.1.2-1 are required		
to be listed in part /// of the IHM.		
3 If materials listed in Table 2.1.2-2 are present in products		- MEPC.379(80) Para.4.1.3
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.		
4 The checking of materials as provided in paragraphs -2 and		- MEPC.379(80) Para.4.1.4
-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).		
5 For new ships, Part I of the IHM is to be developed based on		
Annex 2-3.		

	omparison rable (rest blocks for steel castings and othe	T '
Amended	Original	Remarks
3.2 Development of Part I of the Inventory of Hazardous		
Materials for Existing Ships (Paragraph 4.2 of		
<u>MEPC.379(80) ANNEX)</u>		
<u>3.2.1 General</u>		1 FFD G 250 (00) D 4 2
1 In order to achieve comparable results for existing ships		- MEPC.379(80) Para.4.2
with respect to Part I of the IHM, the following procedure is to be		
<u>followed:</u>		
(1) collection of necessary information;		
(2) assessment of collected information;		
(3) preparation of visual/sampling check plan;		
(4) onboard visual check and sampling check; and		
(5) preparation of Part I of the IHM and related documentation.		
2 The determination of Hazardous Materials present on board		- MEPC.379(80) Para.4.2.2
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.		
3 The procedures described in this section are to be carried out		- MEPC.379(80) Para.4.2.3
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.		
4 The IHM is to be developed based on Fig. 3.2.1.		- MEPC.379(80) Para.4.2.4
5 For existing ships, Part I of the IHM is to be developed		- MEPC.379(80) Para.4.2.4
based on Annex 2-4.		

Amended	Original	Remarks
Fig. 3.2.1 Flow Diagram for Developing Step 1 Collection of necessary information *1	Part I of the IHM for Existing Ships *1: Documents may include any certificates, manuals, ship's plans, drawings, technical specifications and information from sister	- MEPC.379(80) APPENDIX 4
Step 2 Analysis and Definition of scope of assessment *2 Can you recognize what it contains by sampling check it contains by visual check analysis? Confirm by sampling analysis according to a criterion? Visual check plan Onboard Visual check, sampling check *4 VES Step 4 Step 5 Equipment, system and/or area classed as potentially containing hazardous Material Preparation of IHM Part I Preparation of IHM Part I	and/or similar ships. *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. *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. *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. *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".	
 3.2.2 Collection of Necessary Information 1 The shipowner is to identify, research, request and procure all reasonably available documentation regarding the ship. 2 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 Material inventories or recycling information from sister ships. 		- MEPC.379(80) Para.4.2.5

	emparison Table (Test blocks for steel castings and other	
Amended	Original	Remarks
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.		
		- MEPC.379(80) Para.4.2.6
3.2.3 Assessment of Collected Information		
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.		1 FED (250/00) D 4 2 5
3.2.4 Preparation of Visual/Sampling Check Plan		- MEPC.379(80) Para.4.2.7
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.		
2 The visual/sampling check plan is to be based on the		
following three lists.		
(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)		
(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 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		
of samples to identify the presence of absence of		

Amended Amended	mparison Table (Test blocks for steel castings and othe	Remarks
	Original	кешагкѕ
Hazardous Material contained in the equipment, systems		
and/or areas, by suitable and generally accepted methods		
such as laboratory analysis)		
(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).		
3 Visual/sampling checkpoints are to be all points where:		
(1) the presence of materials to be considered for the IHM Part		
I as listed in Table 2.1.2-1 is likely;		
(2) the documentation is not specific; or		
(3) materials of uncertain composition were used.		
		- MEPC.379(80) Para.4.2.8
3.2.5 Onboard Visual and Sampling Check		
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 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.		
2 Any uncertainty regarding the presence of Hazardous		
Materials is to be clarified by a visual and sampling check.		

	mparison Table (Test blocks for steel castings and othe	
Amended	Original	Remarks
Checkpoints are to be documented in the ship's plan and may be		
supported by photographs.		
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).		
		- MEPC.379(80) Para.4.2.9
3.2.6 Preparation of Part I of the Inventory of Hazardous		
Material and Related Documentation		
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.		
are to be indicated separately in the Remarks column of the irrivi.		- MEPC.379(80) Para.4.2.10
3.2.7 Testing Methods		1VIEA C.575(00) 1 tata 1.2.10
1 Samples may be tested by a variety of methods. "Indicative"		
or "field tests" may be used in the following case:		
(1) the likelihood of a hazard is high;		
(2) the test is expected to indicate that the hazard exists; and		
(3) the sample is being tested by "specific testing" to show that		
the hazard is present.		
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".		
3 In all other cases, and in order to avoid dispute, "specific		
testing" is to be used. Specific tests are repeatable, reliable and can		

Amended-Original Requirements Co	emparison Table (Test blocks for steel castings and other	rs)
Amended	Original	Remarks
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.		
4 Specific test methods are provided in Appendix 2-5.		
		- MEPC.379(80) Para.4.2.11
3.2.8 Diagram of the Location of Hazardous Materials		
On Board a Ship		
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.		
3.3 Maintaining and Updating Part <i>I</i> of the Inventory of		- MEPC.379(80) Para.4.3
Hazardous Material during Operations (Paragraph 4.3		1VIEA C.575(00) 1 data 1.5
of MEPC.379(80) ANNEX)		
<u> </u>		
		- MEPC.379(80) Para.4.3.1
3.3.1 General		
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.		MEDG 270/00) D 42.2
3.3.2 Updating of Part <i>I</i> of the Inventory of Hazardous		- MEPC.379(80) Para.4.3.2
Materials in the Event of New Installation		
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		
of the fight country is reflered, I art I of the I first is to be updated		

Amended-Original Requirements Co	omparison Table (Test blocks for steel castings and other	18)
Amended	Original	Remarks
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.		
		- MEPC.379(80) Para.4.3.3
3.3.3 Continuity of Part I of the Inventory of Hazardous		
Material Desired to the state of the state		
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.		
3.4 Development of Part <i>II</i> of the Inventory of Hazardous		- MEPC.379(80) Para.4.4
Material (Operationally Generated Waste) (Paragraph		- WILI C.5/5(60) I did.4.4
4.4 of MEPC.379(80) ANNEX)		
THE CHAPTER OF THE TELEPOOR		
		- MEPC.379(80) Para.4.4.1
3.4.1 General		
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.		MEDC 270/00) D 4.4.2
3.4.2 Operationally Generated Wastes to be Listed in the		- MEPC.379(80) Para.4.4.2
Inventory of Hazardous Material		
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 // of the IHM.		

Amended	Original	Remarks
3.5 Development of Part III of the Inventory of Hazardous		- MEPC.379(80) Para.4.5
Materials (Stores) (Paragraph 4.5 of MEPC.379(80)		WIE1 C.577(00)1 ata. 1.5
ANNEX)		
<u> </u>		
		- MEPC.379(80) Para.4.5.1
<u>3.5.1 General</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 last voyage.		
		- MEPC.379(80) Para.4.5.2
3.5.2 Stores to be Listed in the Inventory of Hazardous		
Materials 164 - Associated in Part III of the HDM consided in Table		
If the stores to be listed in Part /// 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.		- MEPC.379(80) Para.4.5.3
3.5.3 Liquids and Gases Sealed in Ship's Machinery and		- WILT C.575(60)1 at a.4.5.5
Equipment to be Listed in the Inventory of		
Hazardous Material		
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		

Amended-Original Requirements Co	mparison Table (Test blocks for steel castings and other	15)
Amended	Original	Remarks
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.		
		- MEPC.379(80) Para.4.5.4
3.5.4 Regular Consumable Goods to be Listed in the		
Inventory of Hazardous Materials		
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.		
3.6 Description of Location of Hazardous Materials On		- MEPC.379(80) Para.4.6
<u>Board (Paragraph 4.6 of MEPC.379(80) ANNEX)</u>		
3.6.1 General		
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).		

Amended	Original	Remarks
3.7 Description of Approximate Quantity of Hazardous		- MEPC.379(80) Para.4.7
Materials (Paragraph 4.7 of MEPC.379(80) ANNEX)		
3.7.1 General		
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^3 for materials of liquid or gases, m^2 for		
materials used in floors or walls) are considered more appropriate.		
An approximate quantity should be rounded up to at least two		
significant figures.		

Amended	Original	Remarks
Chapter 4 REQUIREMENTS FOR ASCERTAINING THE CONFORMITY OF THE INVENTORY	Original	- MEPC.379(80) Para.5
4.1 Design and Construction Stage (Paragraph 5.1 of MEPC.379(80) ANNEX)		- MEPC.379(80) Para.5.1
The conformity of Part <i>I</i> of the IHM at the design and construction stage is to be ascertained by reference to the collected <i>SDoC</i> and the related <i>MD</i> collected from suppliers.		
4.2 Operational Stage (Paragraph 5.2 of MEPC.379(80) ANNEX)		- MEPC.379(80) Para.5.2
Shipowners are to implement the following measures in order to ensure the conformity of part <i>I</i> of the IHM:		
(1) to designate a person as responsible for maintaining and updating the IHM (the designated person may be employed ashore or on board);		
(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;		
(3) to maintain the IHM including dates of changes or new deleted entries and the signature of the designated person; and		
(4) to provide related documents as required for the survey or sale of the ship.		

Amended	Original	Remarks
Chapter 5 MATERIAL DECLARATION		- MEPC.379(80) Para.6
5.1 General (<i>Paragraph</i> 6.1 of <i>MEPC</i> 379(80) <i>ANNEX</i>)		- MEPC.379(80) Para.6.1
5.1 General (<i>Paragraph</i> 6.1 of <i>MEPC</i> 379(80) <i>ANNEX</i>)		- WILI C.575(00)1 ata.0.1
Suppliers to the shipbuilding industry are to identify and decl	are	
whether or not the materials listed in Table 2.1.2-1 or Tal	ble	
2.1.2-2 are present above the threshold value specified in the	<u>ose</u>	
tables. However, this provision does not apply to chemicals wh	ich	
do not constitute a part of the finished product.		
5.2 Information Required in the Declaration		- MEPC.379(80) Para.6.2
(Paragraph 6.2 of MEPC. 379(80) ANNEX)		
1 At the following information is required in the MD:		
(1) date of declaration;		
(2) MD identification number;		
(3) supplier's name;		
(4) product name (common product name or name used	by	
manufacturer);		
(5) product number (for identification by manufacturer);		
(6) declaration of whether or not the materials listed in Tal	<u>ble</u>	
2.1.2-1 and Table 2.1.2-2 are present in the product about	<u>vve</u>	
the threshold value stipulated the tables; and		
(7) mass of each constituent material listed in Table 2.1.2	<u>2-1</u>	
and/or Table 2.1.2-2 if present above threshold value.		
2 An example of the MD is shown in Annex 2-6.		

Amended	Original	Remarks
Chapter 6 SUPPLIER'S DECLARATION OF		- MEPC.379(80) Para.7
CONFORMITY		
6.1 Purpose and Scope (Paragraph 7.1 of MEPC.379(80)		- MEPC.379(80) Para.7.1
ANNEX)		141121 C.575(00) 1 ata.7.1
<u> </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.		
2 The SDoC remains valid as long as the products are present		
on board.		
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:		
(1) Compliance with law		
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.		
(2) Obtaining of information on chemical substance content		
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.		
6.2 Contents and Format (Paragraph 7.2 of MEPC.379(80)		- MEPC.379(80) Para.7.2
<u>ANNEX</u>)		
1 TH CD C' 1 1 1 1 1 1		
1 The SDoC is to contain the following:		
(1) unique identification number;		

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

Amended	Original	Remarks
	Original	Remarks
Part 3 REQUIREMENTS FOR SHIPS		
Chapter 1 GENERAL		
1.1 General		
1.1.1 Application		
This part applies to the ships specified in 1.1.1-1(1), Part 1.		- Convention ARTICLE 3
		Para.1.1 - MEPC.222(64) Para.1.3
		WILL C.222(04) 1 did.1.5
1.1.2 Others (Regulation 4 of Annex)		
1 Ships are to be provided with measures to meet following		- Convention ANNEX Reg.4
(1) and (2):		
(1) measures which prohibit or restrict the installation or use of		
Hazardous Materials listed in Table 1.1.2-1; and		
(2) measures which prohibit or restrict the installation use of		
such materials on ships, while in ports, shipyards, ship		
repair yards, or offshore terminals.		
2 The minimum list of items for the IHM is shown in Table		
<u>1.1.2-2.</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.		

		inparison rable	Chiainal	
Amo	ended		Original	Remarks
Table 1.1.2-1 Prohibited or Restricted Material			- Convention APPENDIX 1	
<u>Hazardous Material</u>	<u>Definitions</u>		Control measures	
<u>Asbestos</u>	Materials containing asbestos		For all ships, new installation of materials	
	-		which contain asbestos shall be prohibited.	
Ozone-depleting	Ozone-depleting substances means controlled	substances defined in	New installations which contain	
<u>substances</u>	paragraph 4 of article 1 of the Montreal Protocol of	on Substances that Deplete	ozone-depleting substances shall be prohibited	
	the Ozone Layer, 1987, listed in annexes A,B,C o		on all ships, except that new installations	
	force at the time of application or interpretation of	this annex.	containing hydrochlorofluorocarbons (HCFC)	
	Halon 1211 Bromochlorodifluoromethane		are permitted until 1 January 2020.	
	Halon 1301 Bromotrifluoromethane			
	Halon 2402 1,2-Dibromo-1,1,2,2-tetrafluoroethan	ne (also known as Halon		
	114B2)			
	CFC-11 Trichlorofluoromethane			
	CFC-12 Dichlorodifluoromethane			
	CFC-113 1,1,2-Trichloro-1,2,2-trifluoroethane CFC-114 1,2-Dichloro-1,1,2,2-tetrafluoroethane			
	CFC-114 1,2-Dichloro-1,1,2,2-etrandorocurane CFC-115 Chloropentafluoroethane			
Polychlorinated	"Polychlorinated biphenyls" means aromatic con	nounds formed in such a	For all ships, new installation of materials	
biphenyls (<i>PCB</i>)	manner that the hydrogen atoms on the bipheny		which contain Polychlorinated biphenyls shall	
	rings bonded together by a single carbon-carbon l	•	be prohibited.	
	up to ten chlorine atoms			
Anti-fouling compounds	Anti-fouling compounds and systems regulate	d under annex I to the	1. No ship may apply anti-fouling systems	
and systems	International Convention on the Control of Harn	nful Anti-fouling Systems	containing organotin compounds as a	
	on Ships, 2001 (AFS Convention) in force at the	he time of application or	biocide or any other anti-fouling system	
	interpretation of the Rules.		whose application or use is prohibited by	
			the AFS Convention.	
			2. 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.	

Amended	Original	Remarks
Table 1.1.2-2 Minimu	um List of Items for the IHM	- Convention APPENDIX
<u>Hazarc</u>	lous Materials	2
Any Hazardous Materials listed in Table 1.1.2-1.		
Cadmium and Cadmium Compounds		
Hexavalent Chromium and Hexavalent Chromium Compounds		
<u>Lead and Lead Compounds</u>		
Mercury and Mercury Compounds		
Polybrominated Biphenyl (PBB)		
Polybrominated Diphenyl Ethers (PBDE)		
Polychlorinated Naphthalenes (more than 3 chlorine atoms)		
Radioactive Substances		
Certain Short-chain Chlorinated Paraffins (Alkanes, C10-C13, chloro	<u>)</u>	
2.1.1 Kind of Surveys (Regulation 10 of Annex) Surveys are to be of the following kinds: (1) Initial Surveys (a) Initial Surveys for new ships (b) Initial Surveys for existing ships (2) Renewal Surveys (3) Additional Surveys		- Convention ANNEX Reg.5, Reg.10 and Reg.11 (1)- Convention ANNEX Reg.10.1.1 (2)- Convention ANNEX Reg.10.1.2 (3)- Convention ANNEX Reg.10.1.3
(4) Final Surveys (5) Unscheduled Surveys		(4)- Convention ANNEX Reg.10.1.4

Amended-Original Requirements Comparison Table (Test blocks for steel castings and others)		
Amended	Original	Remarks
2.1.2 Intervals of Surveys (Regulation 10 of Annex)		
Surveys are to be carried out in accordance with the following in		
(1) to (5).		
(1) Initial Surveys		- Convention ANNEX
(a) In the case of a new ship specified in 1.2.1(11), Part 1,		Reg1.4, Reg5, Reg10.1.1
an Initial Survey is to be carried out before the ship is		
put in service.		
(b) 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.		
(2) Renewal Surveys		- Convention ANNEX
Renewal Surveys are to be carried out at the intervals		Reg.10.1.2
specified in 1.1.3-1(3)(a), Part B of the Rules for the		
Survey and Construction of Steel Ships.		
(3) Additional Surveys		- Convention ANNEX
Additional Surveys are to be carried out on the following		Reg.10.1.3
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.		
(a) When replacement or significant repair of the		
structure, equipment, systems, fittings, arrangements		
or materials are carried out,		
(b) Whenever the survey is considered necessary by the		
Society.		
(4) Final Surveys		- Convention ANNEX
Final Surveys are to be conducted before a ship is taken out		Reg.10.1.4
I mai but veys are to be conducted before a ship is taken but		

	imparison Table (Test blocks for steel castings and othe	
Amended	Original	Remarks
of service and before the recycling of the ship has started.		
(5) (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
(5) 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.		
2.1.3 Renewal Surveys Carried Out in Advance and		
Postponement (Regulation 11 of Annex)		- Convention ANNEX
1 Renewal Surveys carried out in advance		Reg.11.5
(1) Renewal Surveys may be carried out in advance if		C
requested by the shipowner, even if the time of the survey		
does not fall within its scheduled interval.		
(2) When Renewal Surveys are carried out early and include		
items applicable to Additional Surveys, Additional Surveys		
are not carried out.		
2 When Renewal Surveys are completed more than 3 <i>months</i>		- Convention ANNEX
in advance, the completion date of said Renewal Survey is deemed		Reg.11.5
to be the new implementation date of the Renewal Surveys specified		
<u>in 2.1.2(2).</u>		
3 Postponement of Renewal Surveys		- Convention ANNEX
Renewal Surveys may be postponed as specified in the following		Reg.11.8 - Convention ANNEX
(1) or (2) subject to the approval by the Society in advance.		Reg.11.9
(1) Maximum 3 months for the purpose of allowing the ship to		-
complete its voyage to the port in which it is to be surveyed.		
(2) Maximum 1 <i>month</i> for the ship engaged on short voyages.		
2.1.4 Laid-up Ships		
1 Laid-up ships are not subject to Renewal Surveys. However,		
Additional Surveys may be carried out at the request of shipowners.		

Amended-Original Requirements Comparison Table (Test blocks for steel castings and others)		
Amended	Original	Remarks
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.		
(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.		
(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.		
215 D		
2.1.5 Preparation for Surveys and OtherMatters		
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.		
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.		
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.		
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.		

Amended-Original Requirements Comparison Table (Test blocks for steel castings and others)		
Amended	Original	Remarks
2.1.6 Documents to be Maintained On Board (Reguration 5 of Annex)		
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.		- Convention ANNEX Reg.5.1, Reg.5.2
Chapter 3 INITIAL SURVEYS		
3.1 General (Paragraph 3.1 of MEPC.222(64) ANNEX)		
In Initial Surveys, Part <i>I</i> of the IHM is to be examined in detail in order to ascertain that it meets relevant requirements in Chapter 2.		- Convention ANNEX Reg.10.1.1, Reg.5.1.2 - MEPC.222(64) Para.3.1
3.2 Initial Surveys for New Ships (Paragraph 3.1.1 of MEPC,222(64) ANNEX)		
3.2.1 Submission of Plans and Documents for Reference 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:		- MEPC.222(64) Para.3.1.1.3
(1) Part I of the IHM (2) MD and SDoC or documents that confirm the same		
 (3) Other documents deemed necessary by the Society 2 The documents specified in -1 above are to be submitted to 		
the Society in accordance with the following (1) to (3) requirements.		
(1) 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.		

Amended	Original	Remarks
(2) If electronic drawings are submitted, they are to be	2	
submitted through the system designated by the Society.		
(3) In cases other than those specified in (1) and (2) above,		
documents are to be submitted in a manner deemed		
appropriate by the Society.		
		
3.2.2 Inspections of Part I of the Inventory of Hazardous		
Materials		- Convention ANNEX Reg.5.1
At Initial Surveys for new ships, the following inspections are to		- Convention ANNEX Reg.5.1 - MEPC.222(64) Para.3.1.1.4
be carried out through the checking the plans and documents		
specified in 3.2.1 and onboard visual inspections: (1) Confirmation that Part <i>I</i> of the IHM identifies the		
(1) Confirmation that Part <i>I</i> of the IHM identifies the Hazardous Materials contained in the ship structure and		
equipment, their location and approximate quantities.		
(2) Confirmation that the IHM identifies the location of		
Hazardous Materials, is consistent with the arrangements,		
structure and equipment of the ship		
(3) Other inspections deemed necessary by the Society.		
(a) Sulet improvious desired necessary by the society.		
3.3 Initial Survey for Existing Ships (Paragraph 3.1.2 of		
<u>MEPC.222(64) ANNEX)</u>		
3.3.1 Submission of Plans and Documents for Reference		
1 For existing ships intending to undergo Initial Surveys, the		- MEPC.222(64)
plans and documents specified in the follows (1) and (2) are to be		Para.3.1.2.3, Para.3.1.2.4
submitted to the Society for reference, in addition to the plans and		
documents specified in 3.2.1:		
(1) Visual/sampling check plan		
(2) Report of the visual/sampling check		

Amended	Original	Remarks
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.		
3.3.2 Inspections of Part I of the Inventory of Hazardous Materials 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: (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 (2) Confirmation that classification as "potentially containing hazardous materials" is noted in the remarks column of the IHM (3) Confirmation that the IHM identifies the location of Hazardous Materials, is consistent with the arrangements,		- Convention ANNEX Reg.5.1, Reg.5.2 - MEPC.222(64) Para.3.1.2.6
structure and equipment of the ship		
(4) Other inspections deemed necessary by the Society		

Amended	Original	Remarks
Chapter 4 RENEWAL SURVEYS	<u> </u>	
4.1 General (Paragraph 3.2 of MEPC.222(64) ANNEX) 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.		- Convention ANNEX Reg.10.1.2 - Convention ANNEX Reg.5.3 - MEPC.222(64) Para.3.2
4.2 Submission of Plans and Documents for Reference (Paragraph 3.2 of MEPC.222(64) ANNEX)		
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: (1) The latest version of Part I of the IHM (2) 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 (3) Other documents deemed necessary by the Society		- MEPC.222(64) Para.3.2.3
4.3 Inspections of Part I of the Inventory of Hazardous Materials (Paragraph 3.2 of MEPC.222(64) ANNEX) At Renewal Surveys, the following inspections are to be carried out by checking plans and documents specified in 4.2 and onboard visual inspection: (1) Confirmation that Part I of the IHM is being appropriately maintained and updated. (2) Confirmation that the IHM identifies the location of		- Convention ANNEX Reg.5.3 - MEPC.222(64) Para.3.2.4

	Amended	Original	Remarks
Hazardous	s Materials, is consistent with the arrangements,		
structure a	nd equipment of the ship.		
(3) When equ	nipment, systems or areas previously classed as		
<u>"potentiall</u>	ly containing hazardous materials" are deleted		
form Part	<i>I</i> of the IHM, confirmation that the decision to		
delete is o	clearly based on the belief that the equipment,		
system or	r area in question contains no Hazardous		
Materials.			
(4) Other insp	ections deemed necessary by the Society.		

	emparison Table (Test blocks for steel castings and other	/
Amended	Original	Remarks
Chapter 5 ADDITIONAL SURVEYS		
5.1 General (<i>Paragraph</i> 3.3 of <i>MEPC</i> .222(64) <i>ANNEX</i>)		
In Additional Surveys, Part <i>I</i> of the IHM is to be examined in		- Convention ANNEX
order to ascertain that it is being appropriately maintained and		Reg.10.1.3
updated after change, replacement or significant repair of the		- Convention ANNEX Reg.5.3 MEPC.222(64) Para.3.3
structure, equipment, systems, fittings, arrangements and material		()
which has an impact on the IHM.		
5.2 Submission of Plans and Documents for Reference		
(Paragraph 3.3 of MEPC.222(64) ANNEX)		
For ships intending to undergo Additional Surveys, the plans and		- MEPC.222(64) Para.3.3.3
documents specified in the following (1) to (3) are to be submitted		, ,
to the Society for reference:		
(1) The latest version of Part I of the IHM		
(2) 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		
(3) Other documents deemed necessary by the Society		
5.3 Inspections of Part I of the Inventory of Hazardous		
Materials (Paragraph 3.3 of MEPC,222(64) ANNEX)		
At Additional Surveys, the following inspections are to be carried		- Convention ANNEX Reg.5.3
out by checking plans and documents specified in 5.2 and		- MEPC.222(64) Para.3.3.4
onboard visual inspection:		
(1) Confirmation that Part <i>I</i> of the IHM is being appropriately		
the state of the s		

Amended	Original	Remarks
maintained and updated.		
(2) Confirmation that the IHM identifies the location of		
Hazardous Materials, is consistent with the arrangements,		
structure and equipment of the ship.		
(3) When equipment, systems or areas previously classed as		
"potentially containing hazardous materials" are deleted		
form Part I of the IHM, confirmation that the decision to		
delete is clearly based on belief that the equipment, system		
or area in question contain no Hazardous Materials.		
(4) Other inspections deemed necessary by the Society.		

Amended	Original	Remarks
Chapter 6 FINAL SURVEYS		
<u> </u>		
6.1 General (Paragraph 3.4 of MEPC.222(64) ANNEX)		
The Final Surveys are to be conducted prior to recycling a ship. In		- Convention ANNEX
Final Surveys, the IHM is to be examined in order to ascertain		Reg.5.4 - Convention ANNEX
whether Parts I to III of the IHM are being appropriately		Reg. 10.4,
developed, maintained and they meet relevant requirements in		MEPC.222(64) Para.3.4
each part of the Rules.		
6.2 Submission of Plans and Documents for Reference (Paragraph 3.4 of MEPC.222(64) ANNEX)		
For ships intending to undergo Final Surveys, the plans and		- MEPC.222(64) Para.3.4.3
documents specified in the following (1) and (4) are to be		
submitted to the Society for reference:		
(1) The latest version of Part I of the IHM		
(2) 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		
(3) Part // of the IHM		
(4) Part III of the IHM		
(5) The Ship Recycling Plan (<i>SRP</i>) approved by Competent		
Authority(ies)		
(6) A copy of the DASR		
6.3 Survey Items (<i>Paragraph</i> 3.4 of <i>MEPC</i> ,222(64) <i>ANNEX</i>)		
At Additional Surveys, the following inspections are to be carried		

Amended	Original	Remarks
out:		
(1) Confirmation that the Part I of the IHM is being		
appropriately maintained and updated to reflect changes in		
ship structure and equipment.		
(2) Confirmation that the Parts II and III of the IHM identifies		- MEPC.222(64) Para.3.4.5.1
the Hazardous Materials contained in the ship structure and		- WIET C.222(04) 1 dtd.5.4.5.1
equipment, their location and approximate quantities.		
(3) Confirmation that the Ship Recycling Plan properly reflects		
the information contained in the IHM and contains		- MEPC.222(64) Para.3.4.5.2
information concerning the establishment, maintenance and		(3)
monitoring of safe-for-entry and safe-for-hot-work		
conditions.		
(4) Confirmation that the Ship Recycling Facility where the		
ship is to be recycled holds a valid DASR.		NEDC 222/(4) D 2 4 5 2
(5) When equipment, systems or areas previously classed as		- MEPC.222(64) Para.3.4.5.3
"PHCM" 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		- MEPC.222(64) Para.3.4.5.4
no Hazardous Materials.		
(6) Other inspections deemed necessary by the Society.		

Amended	Original	Remarks
Chapter 7 UNSCHEDULED SURVEYS		
7.1 General		
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.		

Amended	Original	Remarks
Chapter 8 PREPARATION FOR SHIP	~	- Convention ANNEX Part.B
RECYCLING		Reg.8, Reg.9
8.1 General (Regulation 8 of Annex)		
Ships destined to be recycled are to comply with the following (1)		- Convention ANNEX
to (6).		Reg.8
(1) Ships are to be recycled at Ship Recycling Facilities that are		
as follows:		
(a) to they have has a DASR; and		
(b) to fully authorized to undertake all the Ship Recycling		
which the Ship Recycling Plan (SRP) specifies to be		
conducted by the identified Ship Recycling		
Facility(ies).		
(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.		
(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.		
(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.		
(5) Ships are to complete the IHM.		
(6) Ships are to be certified as ready for recycling by the		

Amended	Original	Remarks
Administration or organization recognized by it, prior to		
any recycling activity taking place.		

Amended	Original	Remarks
	Original	Kemarks
Part 4 REPORTING REQUIREMENTS		
Chapter 1 GENERAL		
Chapter 1 GERTERAL		
1.1 Information and Reporting Requirements (Regulation		
<u>24 of Annex)</u>		
		- Convention ANNEX
1 A shipowner is to notify the Administration in due time and		Reg.24.1
in writing of the intention to recycle a ship in order to enable the		1108.2
Administration to prepare for the survey and certification required by		
the Rules.		C 'ANDEN
2 When the ship destined to be recycled has acquired the		- Convention ANNEX Reg.24.3
International Ready for Recycling Certificate, the Ship Recycling		105.21.5
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.		
1.2 Reporting upon Completion (Regulation 25 of Annex)		
When the mential or compulate recovaling of a chin is compulated in		- Convention ANNEX
When the partial or complete recycling of a ship is completed in		Reg.25
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.		

Amended	Original	Remarks
ANNEX 2-1 EXAMPLES OF RADIOACTIVE SOURCES (Appendix 10 of MEPC.379(80))		MEPC.379(80) APPENDIX 10
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.		
Examples of consumer products with radioactive materials Ionization chamber smoke detectors (typical radionuclides 241 Am; 226 Ra) Instruments/signs containing gaseous tritium light sources (3H) Instruments/signs containing radioactive painting (typical radionuclide 226 Ra) High intensity discharge lamps (typical radionuclides 85 Kr; 232 Th) Radioactive lighting rods (typical radionuclides 241 Am; 226 Ra)		
Examples of industrial gauges with radioactive materials Radioactive level gauges Radioactive dredger gauges* Radioactive conveyor gauges* Radioactive spinning pipe gauges* * Typical radionuclides: 241 Am; 241 Am/Be; 252 Cf; 244 Cm; 60 Co; 137 Cs; 153 Gd; 192 Ir; 147 Pm; 238 Pu; 239 Pu/Be; 226 Ra; 75 S; 90 Sr (90 Y); 170 Tm; 169 Yb.		

		Amended	giilai redaire		Original					Remarks
Part I ship's structure Hazardous	(A) Eture	STANDARD Y OF HAZARDO Opendix 2 of MEPC Lazardous materic and equipment rials contained in ed in I-1 to I-3.	(379(80)) als contained in	athe						MEPC.379(80) APPENDIX 2
<u>I-1</u> ·	- Pain	ts and Coating Syste	ems Containing M	laterials Liste	d in Table 2.1.2-1	and Table 2	2.1.2-2	of Part 2 of the R	<u>ules</u>	
	No.	Application of paint	Name of paint	<u>Location</u>	<u>Materials</u>	Approx. quai	<u>ntity</u>	<u>Remarks</u>		
	<u>1</u>	Anti-drumming	Primer, XX Co., x	x Hull Part	<u>Lead</u>	<u>35.00</u>	<u>kg</u>			
	_	compound	primer #300 xx Co. xx coat #100) II. 1	TDT	120.00	1			
	2	Antifouling	<u>xx Co. xx coat #100</u>	<u>Underwater</u> <u>parts</u>	<u>TBT</u>	<u>120.00</u>	<u>kg</u>			
<u>I-2</u>	<u>- Equ</u>	ipment and Machin Name of equipment and machinery	<u>Location</u>	<u>Materials</u>	Parts where used	Approx. qu	antity	of Part 2 of the Ru Remarks	<u>ıles</u>	
	<u>1</u>	Switch board	Engine control room	<u>Cadmium</u>	Housing coating	0.02	<u>kg</u>			
				Mercury	Heat gauge	<u><0.01</u>	<u>kg</u>	Less than 0.01kg	4	
	2	Diesel Engine, xx Co., xx #150	Engine room	Lead	Starter for blower	0.02	ks			
	<u>3</u>	Diesel Engine, xx Co., xx #200	Engine room	Lead	Starter for blower	<u>0.01</u>	<u>kg</u>	Revised by XXX on Oct., xx 2008 (revoking No.2)		
	<u>4</u>	Diesel Generator (x3)	Engine room	<u>Lead</u>	Ingredient of copper compounds	<u>0.01</u>	<u>kg</u>			
	<u>5</u>	Radioactive level gauge	No.1 Cargo tank	Radioactive substances	Gauge	<u>5</u> (1.8E+11)		Radionuclides: 60Co		

		Amended	Smar requirem		Original Original					Remarks
	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									
	No.	Name of structural element	Location	Materials		nere used	Approx. qu		<u>Remarks</u>	
	1	Wall panel	Accommodation	<u>Asbestos</u>	<u>Insulation</u>		<u>2500.00</u>	<u>kg</u>		
	2	Wall insulation	Engine control room	Lead	Perforated	l plate	<u>0.01</u>	<u>kg</u>	Cover of insulation material	
				<u>Asbestos</u>	Fire protect	ction	<u>25.00</u>	<u>kg</u>	<u>Under perforated plates</u>	
Part II Operationa		Operationally gen	_							
			<u>II - Op</u> e	erationally (Generated	l Waste				-
]	No. Location *	Name of Iten detail of the		Approx. qua	antity		Rem	arks	
	1	Garbage locker	Garbage (food was	te)	<u>35.00</u>	<u>kg</u>				
	2	Bilge tank	<u>Bilgewater</u>		<u>15.00</u>	<u>m³</u>				
	3		Dry cargo residues		110.00	<u>kg</u>				
	4		Waste oil (sludge)	crude)	120.00	<u>kg</u>				
	5	No.1 ballast tank	Ballast water		<u>2,500.00</u> 250.00	<u>m³</u> kg				
	L_		art // or part /// item is to be part. The location of part //		r based on its	location, fro			**	
Part III Stores are 1		tores								

	Ame	nded-Original Rec	uirements	Compar	ison Ta	able (Tes	t blo	ocks for	steel cast	ings and o	<u>others</u>)	
		Amended			Original							Rem	arks
			<u>III</u> -	1 - Stores									
No.	Location *1	Name of Item	Unit quantity	<u>Figure</u>	Figure Approx. quantity Remarks *2								
1	No.1 fuel oil tank	Fuel oil (heavy fuel oil)	<u> </u>			<u>100.00</u>	<u>m3</u>						
2	CO2 room	<u>CO2</u>	<u>100.00</u> <u>k</u>	<u>50</u>	<u>bottles</u>	<u>5,000.00</u>	<u>kg</u>						
3	Workshop	<u>Propane</u>	<u>20.00</u> k	<u>10</u>	<u>pcs</u>	200.00	<u>kg</u>						
<u>4</u>	Medicine locker	Miscellaneous medicines	<u>-</u>	<u> </u>		<u>-</u>		Details are sl	nown in the attach	ned list.			
<u>5</u>	Paint stores	Paint, xx Co., #600	<u>20.00</u> <u>k</u>	<u>5</u>	pcs	100.00	<u>kg</u>						
<u>*2</u>	2 In column "Remarks"	for part /// items, if Hazardous N	laterials are integrated in S	-				ntents is to be s	shown as far as po	ossible.			
No	 Type of liquids 	Name of machinery	or equipment	Location		Appro	x. quar		<u>arks</u>				
1	Hydraulic oil	Deck crane hydraul		Upper decl	<u>k</u>			<u>m³</u>					
		Deck machinery hy	•		k and bosun			<u>m³</u>					
_		Steering gear hydra		Steering ge				<u>m</u> ³					
2	<u>Lubricating oil</u>	Main engine system	<u>!</u>	Engine roo				$\frac{m^3}{m^3}$					
3	Boiler water treatm	nent Boiler		Engine roo	<u>om</u>		0.20	m ^s					
		<u>III-3 – Gas</u>	es Sealed in Sl	nip's Macl	ninery an	d Equipme	<u>nt</u>						
	No. Type of gases	Name of machinery	or equipment	Locati	<u>ion</u>	Approx. qua	ntity	Remarks					
	<u>1</u> <u>HFC</u>	AC System		AC ro		100.00	<u>kg</u>						
	<u>2</u> <u>HFC</u>	Refrigerated provisi	on chamber machir	e AC ro	<u>oom</u>	<u>50.00</u>	<u>kg</u>						
	No.	III-4 – Regular Consul	mable Goods]			ing Hazard Remarks	ous M	<u> Iaterials</u>	\neg				
	1		efrigerators	1	<u> </u>	111111111111111111111111111111111111111							
	2		ersonal computers	2									
	-	Note:		• -									
	; -	*1 The location of a part II or p	oart /// item should	be entered in o	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 / items is recommended to be described similarly, as far as practicable.

	omparison Table (Test blocks for steel castings and other	1 '
Amended	Original	Remarks
ANNEX 2-3 EXAMPLE OF THE DEVELOPMENT		- MEPC.379(80) APPENDIX 3
PROCESS FOR PART 1 OF THE INVENTORY OF		APPENDIA 3
HAZARDOUS MATERIALS FOR NEW SHIPS		
(Appendix 3 of MEPC. 379(80))		
An1 General		
An1.1 General		
This annex has been developed to facilitate understanding of the		- MEPC.379(80)
development process for Part I of the IHM for new ships.		APPENDIX 3 Para.1
An2 Development Flow for Part I of the Inventory of		
Hazardous Materials		
Part I of the IHM is to be developed using the following three		- MEPC.379(80)
steps. However, the order of these steps is flexible and can be		APPENDIX 3 Para.2
changed depending on the schedule of shipbuilding.		
(1) collection of Hazardous Materials information		
(2) utilization of Hazardous Materials information		
(3) preparation of the IHM (by filling out standard format)		
An3 Collection of Hazardous Materials Information		
An3.1 Data-collection Process for Hazardous Materials		MEDC 270/00\
MD and SDoC for products from suppliers (tier 1 suppliers) are to		- MEPC.379(80) APPENDIX 3 Para.3
be requested and collected by the shipbuilding yard. Tier 1 suppliers		7 H I LANDIX J I ala.J
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		

Amended	Original	Remarks
involve the entire shipbuilding supply chain (Fig. An3.1).		
Fig. An3.1 Process of MD (and SDoC) Col	- MEPC.379(80) APPENDIX 3 Figure 1	
An3.2 Declaration of Hazardous Materials An3.2.1 General 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.		- MEPC.379(80) APPENDIX 3 Para.3.2

Amended	Original	Remarks
An3.2.2 Hazardous Materials for which the Installation or use is Prohibited or Restricted 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.		- MEPC.379(80) APPENDIX 3 Para.3.2.1
An3.2.3 Materials to be Listed if the Threshold is Exceeded 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.		- MEPC.379(80) APPENDIX 3 Para.3.2.2
An3.3 Example of Homogeneous Materials 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.		- MEPC.379(80) APPENDIX 3 Para.3.3

Amended-Original Requirements Co	mparison Table (Test blocks for steel castings and other	218)
Amended	Original	Remarks
Fig. An3.3 Example of Horn Sheath (PVC) Intervention (paper)	Insulator (rubber) Conductor (copper)	- MEPC.379(80) APPENDIX 3 Figure.2
An4 UTILIZATION OF HAZARDOUS MATERIALS INFORMATION 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.		- MEPC.379(80) APPENDIX 3 Para.4
An5 PREPARATION OF INVENTORY OF HAZARDOUS MATERIALS (BY FILLING OUT STANDARD FORMAT) An5.1 General 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:		- MEPC.379(80) APPENDIX 3 Para.5

Amended Amended	Original	Remarks
(1) Part I-1: Paints and coating systems		
(2) Part I-2: Equipment and machinery		
(3) Part I-3: Structure and hull		
An5.2 "Name of equipment and machinery" Column		- MEPC.379(80) APPENDIX 3 Para.5.1
An5.2.1 Equipment and Machinery		
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.		
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.		
An5.2.2 Pipes and Cables		
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.		

Amended Original Remarks Table An5.2 Example Showing More than One Item of Equipment or Machinery Situated in One Location No. Same of equipment and pastinery Location Meterials Location Meterials Puts where used Quantity Remarks Appens. Quantity Remarks Remarks Appens. Quantity Remarks APPENDIX 3 Table 1 Main Engine Engine Room Mescary Themometer chance six temperature 1 Dissel Generator (x, 3) Engine norm Mescary Themometer chance 1 Remarks Themometer chance 2 Remarks Themometer chance 2 Remarks Themometer chance 2 Remarks Themometer chance 3 Remarks Themometer chance 4 Remarks Themometer chanc			Amended Amended	nai Kequirei		parison Table (1				sungs and our	Remarks
APPENDIX 3 Table 1 None of equipment and machinery Location Materials Parts where used Approx. quantity Remarks		T-1-1.		verino Mono Alesa	. On a Itama of	E animus aut au Ma alain		<u> </u>			
1 Main Engine Engine Room Mercury Thermometer charge airtemperature 0.01 kg	[Name of equipment and				Appro	X		<u>.</u>	
Mercury Intermometer Change air temperature 0.01 &g		1	Main Engine	Engine Room	<u>Lead</u>		<u>0.75</u>	<u>kg</u>			
An5.3 "Approximate quantity" Column 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 m³ 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 "<0.01 kg". An example is shown in Table An5.3. Table An5.3 Example of a Switchboard Table An5.3 Example of a Switchboard Table An5.3 Example of a Switchboard Farts where used Approx. quantity Remarks Location Materials Parts where used Quantity Remarks Switch Board Room Engine Control Room Answer Lead and lead compounds -MEPC.379(80) APPENDIX 3 Table 2		1			Mercury		0.01	<u>kg</u>			
An5.3 "Approximate quantity" Column 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 m³ 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 "<0.01 kg". An example is shown in Table An5.3. Table An5.3 Example of a Switchboard Table An5.3 Example of a Switchboard Approx. quantity Approx. quantity Remarks 1 Switch Board Room Approx. quantity Remarks 1 Switch Board Room Approx. quantity Remarks Approx. quantity Remarks		<u>2</u>	<u>Diesel Generator (x 3)</u>	Engine room	Mercury	<u>Thermometer</u>	0.03	<u>kg</u>			
APPENDIX'3 Para.5.2 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 m³ 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 "<0.01 kg". An example is shown in Table An5.3. Table An5.3 Example of a Switchboard Table An5.3 Example of a Switchboard No. Name of equipment and machinery Location Materials Parts where used Approx. quantity Remarks Approx. Remarks Parts where used Approx. Quantity Remarks Parts where used Parts where use		<u>3</u>	FC valve (x100)			<u>d</u>	<u>20.5</u>	<u>kg</u>			
No. Name of equipment and machinery Location Materials Parts where used Approx. quantity Remarks 1 Switch Board Engine Control Room Approx. quantity Remarks Cadmium Housing coating 0.02 kg —	The standard Materials is to be the standard unit to be rounded up Material is less to	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^3 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									
1 Switch Board Engine Control Room	[No.							<u>Remarks</u>		
- <u>Room</u> <u>Room</u>		1	Switch Board	Engine Control	<u>Cadmium</u>	Housing coating	0.02	kg	Ξ		
			5 WIGH DOUG	Room	Mercury	Heat gauge	<u><0.01</u>	kg	less than 0.01 kg		

	mparison Table (Test blocks for steel castings and othe	/
Amended	Original	Remarks
		- MEPC.379(80)
An5.4 "Location" Column		APPENDIX 3 Para.5.3
An5.4.1 Example of a Location List		
It is recommended to prepare a location list which covers all		
compartments of a ship based on the ship's plans (e.g. 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 Table An5.4-1. 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 Table An5.4-1.		
An5.4.2 Description of Location of Pipes and Electrical		
<u>Systems</u>		
1 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:		
(1) listing of all components in the column; or		
(2) description of the location of the system using an		
expression such as those shown under "primary		
classification" and "secondary classification" in Table		
An5.4-1.		
2 A typical description of a pipe system is shown in Table		
An5.4-2.		

	Amended			C	Original	Remarks
	- MEPC.379(80) APPENDIX 3 Table 3					
(A) Primary classification	(B) Secondary classification	(C) Name of location	(A) Primary classification	(B) Secondary classification	(C) Name of location	
All over the ship						
Hull Part	Fore Part	Bos'n Store	Machinery Part	Engine Room	Engine Room	
					Main Floor	
	Cargo Part	No.1 Cargo Hold/Tank			2nd Floor	
		No.1 Garage Deck				
					Generator Space/Room	
	Tank Part	Fore Peak Tank			Purifier Space/Room	
		No.1 WBT			Shaft Space/Room	
		No.1 FOT			Engine Casing	
		Aft Peak Tank			Funnel Engine Control Room	
	Aft Part	Steering Gear Room				
	7 Ait I dit	Emergency Fire Pump Space		Pump Room	Pump Room	
				<u>1 wan p 110 om</u>		
	Superstructure	Accommodation	Exterior Part	Superstructure	Superstructure	
		Compass Deck		Upper Deck	Upper Deck	
		Nav. Bridge Deck		Hull Shell	Hull Shell	
					<u>Bottom</u>	
		Wheel House			<u>Under Waterline</u>	
		Engine Control Room				
		Cargo Control Room		<u></u>		
	Deck House	Deck House				

Amended-Origina	l Requireme	ents Compari	son Table (Te	est blocks	s for steel ca	stings and othe	ers)
Amended				Origi	nal		Remarks
<u>Tabl</u>	e An5.4-2 Exa	ample of Descript	ion of a Pipe Syst	tem_			- MEPC.379(80)
No. Name of equipment and machinery	Location	<u>Materials</u>	Parts where used	Approx. quantity	<u>Remarks</u>		APPENDIX 3 Table 4
Water Ballast Pipe	Engine room, Hold parts						
ANNEX 2-4 EXAMPLE OF THE PROCESS FOR PART I OF THE IN HAZARDOUS MATERIALS FOR E (Appendix 5 of MEPC, 379)	NVENTORY XISTING SI	OF					• MEPC.379(80) APPENDIX 5
An1.1 General In order to develop Part I of the IHI documents of the individual ship as well a experience of specialist personnel (experts) is has been developed to facilitate understandin process for Part I of the IHM for existing ships to be paid to variations in different types of ships.	s the knowled s required. This ng of the devel s. However, atte	lge and s annex opment					- MEPC.379(80) APPENDIX 5 Para.1.1
An1.2 Development Flow for Part I Hazardous Materials Compilation of Part I of the IHM for exist following five steps: (1) Collection of necessary information (2) Assessment of collected information (3) Preparation of visual/sampling check (4) Onboard visual/sampling check	ting ships invo						- MEPC.379(80) APPENDIX 5 Para.1.2

Amended	Original	Remarks
(5) Preparation of Part <i>I</i> of the IHM and related documentation	-	
(5) Treparation of Farty of the HTM and related documentation		
An2 COLLECTION OF NECESSARY		
INFORMATION		
===========		- MEPC.379(80)
An2.1 Sighting of Available Documents		APPENDIX 5 Para.2.1
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:		
(1) Ship's specification		
(2) General Arrangement		
(3) Machinery Arrangement		
(4) Spare Parts and Tools List		
(5) Piping Arrangement		
(6) Accommodation Plan		
(7) Fire-Control Plan		
(8) Fire Protection Plan		
(9) Insulation Plan (Hull and Machinery)		
(10) International Anti-Fouling System Certificate		
(11) Related manuals and drawings		
(12) Information from other inventories and/or sister or similar		
ships, machinery, equipment, materials and coatings		
(13) Results of previous visual/sampling checks and other		
<u>analysis</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.		

	omparison Table (Test blocks for steel castings and other	
Amended	Original	Remarks
An2.2 Indicative List		- MEPC.379(80) APPENDIX 5 Para.2.2
An2.2.1 General It is impossible to check all equipment, systems and/or areas on board the ship to determine the presence or absence of Hazardous Materials. The total number of parts on board may exceed several thousand. In order to take a practical approach, an indicative list is to be prepared that identifies the equipment, system and/or area on board that is presumed to contain Hazardous Materials. Field interviews with the shipyard and suppliers may be necessary to prepare such lists. Typical examples of such lists are shown in Table An2.2.3-1, Table An2.2.3-2, Table An2.2.3-3.		
An2.2.2 Materials to be Checked and Documented Hazardous Materials, as identified in Table 2.1.2-1 and Table 2.1.2-2 of the Rules, are to be listed in Part I of the IHM for existing ships. Table 2.1.2-1 and Table 2.1.2-2 contains all the materials concerned. Table 2.1.2-1 shows those which are required to be listed and Table 2.1.2-2 shows those which are to be listed as far as practicable. An2.2.3 Materials Required to be Listed on the Inventory of Hazardous Materials 1 General The following materials are to be listed on the IHM: (1) Asbestos (2) Oplychlorinated biphenils (PCB) (3) Ozone-depleting substances (4) Anti-fouling systems containing organotin compounds as a biocide or cybutryne		- MEPC.379(80) APPENDIX 5 Para.2.2.3

Amended-Original Requirements Comparison Table (Test blocks for steel castings and others)				
Amended	Original	Remarks		
2 Asbestos				
The list for asbestos is shown in Table An2.2.3-1.				
3 Polychlorinated biphenyl (PCB)				
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 <i>PCB</i> is shown in Table An2.2.3-2 .				
4 Ozone-depleting substances				
The indicative list for ozone-depleting substances is shown in				
Table An2.2.3-3. 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.				
5 Organotin compounds				
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.				

	iginai Requirements Co	mparison Table (Test blocks for steel cast	ings and others)
Amended		Original	Remarks
<u>6 Cybutryne</u>			
Cybutryne has been used as biocide	in anti-fouling systems, and		
the International Convention on the Con	ntrol of Harmful Anti-fouling		
Systems on Ships (AFS Convention, as	s amended) stipulates that all		
ships shall not apply or reapply cybutry	ne after 1 January 2023, and		
that ships bearing an anti-fouling system	•		
in the external coating layer of their hull			
on 1 January 2023 shall either remov	•		
apply a coating that forms a barrier to			
the underlying non-compliant anti-fo			
scheduled renewal of the anti-fouling s	-		
but no later than 60 <i>months</i> following the	•		
of an anti-fouling system containing cyt	**		
of all and-fouring system containing cyc	our yric.		
	Table An2.2.3-1 The In	dicative List for Asbestos	
Structure and/or equipment		Component	
Propeller shafting	Packing with low presser hydraulic pipir	ng flange	
	Packing with casing		
	Clutch		
	Brake lining		
	Synthetic stern tubes		
<u>Diesel engine</u>	Packing with piping flange		
	Lagging material for fuel pipe Lagging material for exhaust pipe		
	Lagging material turbocharger		
Turbine engine	Lagging material for casing		
		for steam line, exhaust line and drain line	
	Lagging material for piping and valve or	f steam line, exhaust line and drain line	
<u>Boiler</u>	Insulation in combustion chamber		
15010	Packing for casing door		
	Lagging material for exhaust pipe		

Amended	8	Original	Remarks
	Gasket for manhole		
	Gasket for hand hole		
	Gas shield packing for soot blower and	l other hole	
	Packing with flange of piping and valve	e for steam line, exhaust line, fuel line and drain line	
		of steam line, exhaust line, fuel line and drain line	
Exhaust gas economizer	Packing for casing door		
	Packing with manhole		
	Packing with hand hole		
	Gas shield packing for soot blower		
	Packing with flange of piping and valve	e for steam line, exhaust line, fuel line and drain line	
	Lagging material for piping and valve	of steam line, exhaust line, fuel line and drain line	
<u>Incinerator</u>	Packing for casing door		
	Packing with manhole		
	Packing with hand hole		
	Lagging material for exhaust pipe		
Auxiliary machinery (pump,	Packing for casing door and valve		
compressor, oil purifier,	Gland packing		
<u>crane)</u>	Brake lining		
Heat exchanger	Packing with casing		
	Gland packing for valve		
	Lagging material and insulation		
<u>Valve</u>	Gland packing with valve, sheet packing	ng with piping flange	
	Gasket with flange of high presser and	or high temperature	
Pipe, duct	Lagging material and insulation		
Tank (fuel tank, hot water,	Lagging material and insulation		
tank, condenser), other			
equipment (fuel strainer,			
<u>lubricant oil strainer</u>)	T 12		
Electric equipment	Insulation material		
Air-borne asbestos	Wall, ceiling		
Ceiling, floor and wall in	Ceiling, floor, wall		

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

Amen			ginal	Remarks
	Table An2.2.3-2 The Ir	ndicative List for PCB		
	<u>Equipment</u>	Component of equipment		
	<u>Transformer</u>	Insulating oil		
	Condenser	Insulating oil		
	Fuel heater	Heating medium		
	Electric cable	Covering, insulating tape		
	<u>Lubricating oil</u>			
	<u>Heat oil</u>	Thermometers, sensors, indicators		
	Rubber/felt gaskets			
	Rubber hose			
	<u>Plastic foam insulation</u>			
_	Thermal insulating materials			
	<u>Voltage regulators</u>			
	Switches/reclosers/bushings			
	<u>Electromagnets</u>			
	Adhesives/tapes			
	Surface contamination of machinery			
	Oil-based paint			
	Caulking			
	Rubber isolation mounts			
	Pipe hangers			
	Light ballasts (component within fluorescent			
	light fixtures)		1	
	<u>Plasticizers</u>		1	
	Felt under septum plates on top of hull bottom			

Amended-Original Requirements C	omparison rable (rest blo	CKS for steer castr	ngs and ome	18)			
Amended	C	Original		Remarks			
Table An2.2.3-3 The Indicative	List for Ozone-depleting Substance	ist for Ozone-depleting Substances					
<u>Materials</u>	Component of equipment	Period for use of ODS					
		<u>in Japan</u>					
<u>CFC (R11, R12)</u>	Refrigerant for refrigerators	<u>~1996</u>					
<u>CFC</u>	<u>Urethane formed material</u>	<u>~1996</u>					
	Blowing agent for insulation of LNG	<u>~1996</u>					
	carriers						
<u>Halons</u>	Extinguishing agent	<u>~1994</u>					
Other fully halogenated CFC	The possibility of usage in ships is low	<u>~1996</u>					
<u>Carbon tetrachloride</u>	The possibility of usage in ships is low	<u>~1996</u>					
1,1,1-Trichloroethane (Methyl chloroform)	The possibility of usage in ships is low	<u>~1996</u>					
HCFC (R22, R141b)	Refrigerant for refrigerating machine	It is possible to use it					
		<u>until 2020</u>					
<u>HBFC</u>	The possibility of usage in ships is low	<u>~1996</u>					
Methyl bromide	The possibility of usage in ships is low	<u>~2005</u>					
L							
				MEDC 270(00)			
And 2.4 Metable and to be Useful in the Immedian	p.			- MEPC.379(80) APPENDIX 5 Para.2.2.4			
An2.2.4 Materials are to be Listed in the Inventory of	[-			All ENDIA 31 did.2.2.4			
Hazardous Materials as far as Practicable							
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	- I						
identified in a practical way, they are to be listed in the IHM, because	2						
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	ı						
<u>Table An2.2.4.</u>							

Amended	Original	Remarks
	for Materials Listed in Table 2.1.2-2	Remarks
Materials	Component of equipment	
Cadmium and Cadmium Compounds	Plating film, bearing	
H. J. C C J	DLC CL	
Hexavalent Chromium Compounds	Plating film	
Mercury and Mercury Compounds	Fluorescent light, mercury lamp, mercury cell, liquid-level switch, gyro compass, thermometer, measuring tool,	
	manganese cell, pressure sensors, light fittings, electrical	
	switches, fire detectors	
Lead and Lead Compounds	Corrosion resistant primer, solder (almost all electric appliances	
	contain solder), paints, preservative coatings, cable insulation, lead ballast, generators	
Polybrominated Biphenyl (PBB)	Non-flammable plastics	
Polybrominated Diphenyl Ethers (PBDE)	Non-flammable plastics	
Polychlorinated naphthalenes	Paint, lubricating oil	
Radioactive Substances	Refer to Appendix 2-5	
Certain Short-chain Chlorinated Paraffins	Non-flammable plastics	
A 2 A COECCMENTE OF COLLECTED INFORMATION		MEDC 270(90)
An3 ASSESSMENT OF COLLECTED INFORMATION		- MEPC.379(80) APPENDIX 5 Para.3
An3.1 General		
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.		
2 The existence and volume of Hazardous Materials may be		

Amended	iginai Requirements Co		Original		Remarks
			Originar		Kelliaiks
judged and calculated from the Spare	•				
maker's drawings. The existence of a					
ceilings and walls may be identified	from Fire Protection Plans,				
while the existence of TBT in coating	s can be identified from the				
International Anti-Fouling System Cer	tificate, Coating scheme and				
the History of Paint. A weight calcu	llation example is shown in				
<u>Table An3.1-1.</u>					
3 When a component or coating	ng is determined to contain				
Hazardous Materials, a "Y" is to be ente					
of document analysis" in the checkly					
Likewise, when an item is determine					
Materials, the entry "N" is to be made					
contained". When a determination					
Hazardous Materials content, the column					
the entry " <i>Unknown</i> ". Example of the	•				
<u> </u>	CHECKLIST IS SHOWLI III TADIE				
<u>An3.1-2.</u>					
	Т-1.1- А2.1.1 Т Б	1 CW-: -1.4 C-11-4:		-	
22 22 2 20 20		nple of Weight Calculation	0.1.1.1	1	
No. <u>Hazardous Materials</u>	Location/equipment/ component	Reference	<u>Calculation</u>		
1.1-2 <u>TBT</u>	Flat Bottom/Paint	History of coatings	250- × 14-14-250 l		
1.2-1 <u>Asbestos</u> 1.2-3 <i>HCFC</i>	Main engine/Exh. pipe packing	Spare parts and tools list	$\underline{250g \times 14 \text{ sheet} = 3.50 \text{ kg}}$ $20\text{kg} \times 1 \text{ cylinder} = 20 \text{ kg}$	-	
1.2-3 HCFC 1.2-4 Lead	Ref. provision plant Batteries	Maker's drawings Maker's drawings	$6 \text{ kg} \times 16 \text{ unit} = 96 \text{ kg}$		
1.3-1 Asbestos	Engine room ceiling	Accommodation plan	Ong. To diffe your		

			Amended	nai require					Origina)	Remarks	
Table An3.1-2 The Example of the Checklist														
No.	Hazardous materials *1	<u>Location</u>	Name of equipment	Component	Quantity Unit (kg)	No.	Total (kg)	Manufacturer/ Brand name	Result of documents analysis *2	Procedure of check *3	Result of check *4	Reference/ DWG No.		
Inver	ntory part I-1.1		I		ı	ı	1	i		t				
1	<u>TBT</u>	Top Side	Painting & coating	<u>A/F Paints</u>			<u>Nil</u>	Paints Co. /Marine P1000	<u>N</u>			On 1 August 200X, sealer coat applied to all over submerged		
2	<u>TBT</u>	Flat Bottom				<u>3000m²</u>		Unknown AF	<u>Unknown</u>			area before tin free coating		
Inver	ntory part I-1.2	1	I		1	1		1		1		1		
1	Asbestos	Lower Deck	Main engine	Exh.pipe packing	0.25	<u>14</u>		<u>Diesel Co.</u>	<u>Y</u>			<u>M-100</u>		
2	Asbestos	3rd Deck	Aux. boiler	<u>Lagging</u>		<u>12</u>		Unknown lagging	<u>Unknown</u>			<u>M-300</u>		
3	Asbestos	Engine room	Piping/flange	Packing					<u>PCHM</u>					
4	<u>HCFC</u>	2nd Deck	Ref. plant	Refrigerant(R22)	20.00	1		Reito Co.	Y			Maker's DWG		
<u>5</u>	Lead	Nav. Bri. Deck	<u>Batteries</u>		<u>6</u>	<u>16</u>		Denchi Co.	Y			<u>E-300</u>		
<u>lnver</u> <u>1</u>	Asbestos	Upper Deck	Back deck ceilings	E/R ceilings		<u>20m²</u>		Unknown Ceiling	<u>Unknown</u>			<u>O-25</u>		
; ;	*3 Procedure of C	ments analysis: `Check: V=Visua	Y=Contained, N=N l check, S=Samplin	Not contained, Unkno g check , PCHM=Potentially				hazardous materials	<u> </u>					

Amended Amended	Original	Remarks
An4 PREPARATION OF VISUAL/SAMPLING CHECK	1 25	- MEPC.379(80)
PLAN		APPENDIX 5 Para.4
12011		
An4.1 General		
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".		
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.		
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.		
4 To prevent any incidents during the visual/sampling check,		
a schedule is to be established to eliminate 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		

Amended	Original	Remarks
containing materials could release fibres into the atmosphere.		
Therefore, appropriate personnel safety and containment procedures		
are to be implemented prior to sampling.		
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).		

Amended	Original	Remarks
Table An4.1-	The Example of Visual/Sampling Check Plan	
Name of ship	XXXXXXXXX	
IMO number	XXXXXXXXX	
Gross tonnage	28,000GT	
$\overline{\Gamma \times B \times D}$	$\underline{xxx.xx} \times \underline{xx.xx} \times \underline{xx.xx}$ (m)	
<u>Date of delivery</u>	<u>dd.mm.1987</u>	
Shipowner	XXXXXXXXX	
Contact point (Address, Telephone, Fax, Email)	XXXXXXXXX	
	Tel: XXXXXXXX	
	Fax: XXXXXXXX	
	E-mail: abcdefg@hijk.co.net	
<u>Check schedule</u>	Visual check: DD MM YYYY	
	Sampling check: DD MM YYYY	
Site of check	XX shipyard, No. DOCK	
In charge of check	XXXXXXX	
Check engineer	XXXXXX, YYYYYYYY, ZZZZZZZ	
Sampling engineer	Person with specialized knowledge of sampling	
Sampling method and anti-scattering measure for	Wet the sampling location prior to cutting and allow it to harden after cutting to prevent scatter.	
asbestos	Notes: Workers performing sampling activities shall wear protective equipment.	
Sampling of fragments of paints	Paints suspected to contain TBT should be collected and analysed from load line, directly under	
	bilge keel and flat bottom near amidships.	
<u>Laboratory</u>	000000	
Chemical analysis method	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)	
Location of visual/sampling check	Refer to lists for visual and sampling checks	
1.6.6	1	
Listing for equipment, system and/or area for visual c		
See attached "Analysis and definition of scope of invo	stigation for sample ship"	

List of equipment, system and/or area for sampling check Location Equipment, machinery and/or zone Name of parts Materials Result of doc, checking Urper Dock Back deck ceilings Engine room eciling Asbestos Unknown Engine room Piperflange Giasket Asbestos Unknown Refer to attached "Analysis and definition of scope of investigation for sample ship" and "Location plan of Hazardous Materials for sample ship." List of equipment, system and/or area classed as PCHM Location Equipment, machinery and/or zone Name of part Material Result of doc, docking Dixor Propeller cap Gasket Asbestos PCHM Location Air operated shut-off valve Gland packing Asbestos PCHM Refer to attached "Analysis and definition of scope of investigation for sample ship" and "Location plan of Hazardous Materials for sample ship" This plan is established in accordance with the IMO guidelines for the development of the Inventory of Hazardous Materials (") Prepared by: XXXX XXXX Tell: YYYYYYYYY Presual: XXXX/A/Z/Z/Zo.neet - Document cheak - date/place: dd mm yyyy at XX Lines Co., Lid		Amended		1				Origina	l	8	T	Remarks
Upper Deck Back deck ceilings Engine room ceiling Asbestos Unknown Engine room Exhaust gas pipe Insulation Asbestos Unknown Engine room Pipe flangs Casket Asbestos Unknown Refer to attached "Analysis and definition of scope of investigation for sample ship" and "Location plan of Hazardous Materials for sample ship" List of equipment, system and/or area classed as PCHM Location Equipment, machinery and/or zone Name of part Material Result of doe checking Floor Propeller cap Gasket Asbestos PCHM Engine room Air openated shut-off valve Gland packing Asbestos PCHM Refer to attached "Analysis and definition of scope of investigation for sample ship" and "Location plan of Hazardous Materials for sample ship" This plan is established in accordance with the IMO guidelines for the development of the Inventory of Hazardous Materials (*) Propared by: XXXXXXXXXX Tall: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	List of equipmer	nt, system and/or are	ea for sampling check									
Engine room Exhaust gas pipe Insulation Asbestos Unknown Engine room Pipe/Bange Gasket Asbestos Unknown Refer to attached "Analysis and definition of scope of investigation for sample ship" and "Location plan of Hazardous Materials for sample ship" List of equipment, system and/or area classed as PCHM Location Equipment, machinery and/or zone Name of part Material Result of doc checking Floor Propeller cap Gasket Asbestos PCHM Engine room Air operated shut-off valve Gland packing Asbestos PCHM Refer to attached "Analysis and definition of scope of investigation for sample ship" and "Location plan of Hazardous Materials for sample ship" This plan is established in accordance with the IMO guidelines for the development of the Inventory of Hazardous Materials (*) Prepared by: XXXX XXXX Tal: YYYY-YYYY E-mail: XXXX/EIIZLO.net - Document check - date/place: dd mm yyyy at XX Lines Co. Ltd	Location	Equipment, macl	hinery and/or zone	Name of parts		<u>Materials</u>	Re	Result of doc. checking				
Engine room Piperflange Gasket Asbestos Unknown Refer to attached "Analysis and definition of scope of investigation for sample ship" and "Location plan of Hazardous Materials for sample ship" List of equipment, system and/or area classed as PCHM Location Equipment, machinery and/or zone Name of part Material Result of doc. checking Floor Propeller cap Gasket Asbestos PCHM Engine room Air operated shut-off valve Gland packing Asbestos PCHM Refer to attached "Analysis and definition of scope of investigation for sample ship" and "Location plan of Hazardous Materials for sample ship" This plan is established in accordance with the IMO guidelines for the development of the Inventory of Hazardous Materials (*) Prepared by: XXXX XXXX Tel: YYYY-YYYY F-mail: XXXX/XZIZZZO.net - Document check - date/place: dd mmyyyy at XX Lines Co., Ltd	<u>Upper Deck</u>	Back deck ceiling	<u>62</u> 2	Engine room cei	iling	<u>Asbestos</u>	U	<u>Jnknown</u>				
Refer to attached "Analysis and definition of scope of investigation for sample ship" and "Location plan of Hazardous Materials for sample ship" List of equipment, system and/or area classed as PCHM Location Equipment, machinery and/or zone Name of part Material Result of doc. checking Floor Propeller cap Gaske Asbestos PCHM Engine room Air operated shut-off valve Gland packing Asbestos PCHM Refer to attached "Analysis and definition of scope of investigation for sample ship" and "Location plan of Hazardous Materials for sample ship" This plan is established in accordance with the IMO guidelines for the development of the Inventory of Hazardous Materials (*) Prepared by: XXXX XXXX Tel: YYYY-YYYY E'mail: XXXX@ZZZZ.co.net Document check * date/place: dd mm yyyy at XX Lines Co., Ltd	Engine room	Exhaust gas pipe	:	Insulation		Asbestos	<u>U</u> :	J <u>nknown</u>		-		
List of equipment, system and/or area classed as PCHM Location Equipment, machinery and/or zone Name of part Material Result of doc. checking Floor Propeller cap Gasket Asbestos PCHM Engine room Air operated shut-off valve Gland packing Asbestos PCHM Refer to attached "Analysis and definition of scope of investigation for sample ship" and "Location plan of Hazardous Materials for sample ship" This plan is established in accordance with the IMO guidelines for the development of the Inventory of Hazardous Materials (*) Prepared by: XXXX XXXX Tel: YYYY-YYYY E-mail: XXXX/e7777Z.co.net Document check * date/place: dd mmyyyyy at XX Lines Co., Ltd	Engine room	Pipe/flange		Gasket		Asbestos	<u>U</u> :	<u>Jnknown</u>				
List of equipment, system and/or area classed as PCHM Location Equipment, machinery and/or zone Name of part Material Result of doc. checking Floor Propeller cap Gasket Asbestos PCHM Engine room Air operated shut-off valve Gland packing Asbestos PCHM Refer to attached "Analysis and definition of scope of investigation for sample ship" and "Location plan of Hazardous Materials for sample ship" This plan is established in accordance with the IMO guidelines for the development of the Inventory of Hazardous Materials (*) Prepared by: XXXX XXXX Tel: YYYY-YYYY E-mail: XXXX/e7777Z.co.net Document check * date/place: dd mmyyyyy at XX Lines Co., Ltd												
Location Equipment, machinery and/or zone Name of part Material Result of doc. checking Floor Propeller cap Gasket Asbestos PCHM Engine room Air operated shut-off valve Gland packing Asbestos PCHM Refer to attached "Analysis and definition of scope of investigation for sample ship" and "Location plan of Hazardous Materials for sample ship" This plan is established in accordance with the IMO guidelines for the development of the Inventory of Hazardous Materials (*) Prepared by: XXXX XXXX Tel: YYYY-YYYY E-mail: XXXX@JJJJJJ.co.net Document check • date/place: dd mm yyyy at XX Lines Co., Ltd	Refer to attached	l "Analysis and defi	inition of scope of investigation for	sample ship" and	"Location p	lan of Hazard	ous Mate	erials for s	sample ship''			
Location Equipment, machinery and/or zone Name of part Material Result of doc. checking Floor Propeller cap Gasket Asbestos PCHM Engine room Air operated shut-off valve Gland packing Asbestos PCHM Refer to attached "Analysis and definition of scope of investigation for sample ship" and "Location plan of Hazardous Materials for sample ship" This plan is established in accordance with the IMO guidelines for the development of the Inventory of Hazardous Materials (*) Prepared by: XXXX XXXX Tel: YYYY-YYYY B-mail: XXXX@ZZZZZ.co.net Document check • date/place: dd mm yyyy at XX Lines Co., Ltd												
Location Equipment, machinery and/or zone Name of part Material Result of doc. checking Floor Propeller cap Gasket Asbestos PCHM Engine room Air operated shut-off valve Gland packing Asbestos PCHM Refer to attached "Analysis and definition of scope of investigation for sample ship" and "Location plan of Hazardous Materials for sample ship" This plan is established in accordance with the IMO guidelines for the development of the Inventory of Hazardous Materials (*) Prepared by: XXXXXXXXX Tel: YYYYYYYY E-mail: XXXX@IJJJJJ.co.net Document check * date/place: dd mm yyyy at XX Lines Co., Ltd										1		
Equipment, machinery and/or zone Name of part Material checking	<u>List of equipmer</u>	nt, system and/or are	ea classed as PCHM		T			1				
Engine room Air operated shut-off valve Gland packing Asbestos PCHM Refer to attached "Analysis and definition of scope of investigation for sample ship" and "Location plan of Hazardous Materials for sample ship" This plan is established in accordance with the IMO guidelines for the development of the Inventory of Hazardous Materials (*) Prepared by: XXXX XXXX Tel: YYYY-YYYY E-mail: XXXX@JJJJJJ.co.net Document check • date/place: dd mm yyyy at XX Lines Co., Ltd	Location		Equipment, machinery and/or z	<u>one</u>	Name of part Ma		<u>Material</u>					
Refer to attached "Analysis and definition of scope of investigation for sample ship" and "Location plan of Hazardous Materials for sample ship" This plan is established in accordance with the IMO guidelines for the development of the Inventory of Hazardous Materials (*) Prepared by: XXXX XXXX Tel: YYYY-YYYY E-mail: XXXX@IZZIZ.co.net Document check • date/place: dd mm yyyy at XX Lines Co., Ltd	Floor		Propeller cap		Gasket		Asbesto	<u>os</u>	<u>PCHM</u>			
This plan is established in accordance with the IMO guidelines for the development of the Inventory of Hazardous Materials (*) Prepared by: XXXX XXXX Tel: YYYY-YYYY E-mail: XXXX@ZZZZ.co.net Document check • date/place: dd mm yyyy at XX Lines Co., Ltd	Engine room		Air operated shut-off valve		Gland pac	king	Asbesto	<u>os</u>	<u>PCHM</u>			
This plan is established in accordance with the IMO guidelines for the development of the Inventory of Hazardous Materials (*) Prepared by: XXXX XXXX Tel: YYYY-YYYY E-mail: XXXX@ZZZZZ.co.net Document check • date/place: dd mm yyyy at XX Lines Co., Ltd												
Prepared by: XXXX XXXX Tel: YYYY-YYYY E-mail: XXXX@ZZZZ.co.net • Document check • date/place: dd mm yyyy at XX Lines Co., Ltd	Refer to attached	l "Analysis and defi	inition of scope of investigation for	sample ship" and	"Location p	lan of Hazard	ous Mate	erials for s	sample ship''			
Prepared by: XXXX XXXX Tel: YYYY-YYYY E-mail: XXXX@ZZZZ.co.net • Document check • date/place: dd mm yyyy at XX Lines Co., Ltd												
Tel: YYYY-YYYY E-mail: XXXX@ZZZZ.co.net Document check • date/place: dd mm yyyy at XX Lines Co., Ltd	This plan is estab	olished in accordanc	ce with the IMO guidelines for the	development of th	e Inventory	<u>of Hazardous</u>	Materials	<u>ls (*)</u>				
E-mail: XXXX@ZZZZ.co.net Document check • date/place: dd mm yyyy at XX Lines Co., Ltd												
dd mm yyyy at XX Lines Co., Ltd												
dd mm yyyy at XX Lines Co., Ltd												
		-										
Demonstra des efetes et de monero	dd m	ım yyyy at XX Line	es Co., Ltd									
• Preparation date of plan: dd mm yyyy	Preparation da	ate of plan: dd mm	<u>1 </u>									

			Amended	iai itequirei					Origina				Remarks
Table An4.1-2 The Example of the Updated Checklist													
No.	Hazardous materials *1	Location	Name of equipment	Component	Quantity Unit (kg)	No.	Total (kg)	Manufacturer/ Brand name	Result of documents analysis *2	Procedure of check *3	Result of check *4	Reference/ DWG No.	
Inve	ntory part I-1.1												
1	TBT	Top Side	Painting & coating	A/F Paints			<u>Nil</u>	P1000 Paints Co. /Marine P1000	N	V		On 1 August 200X, sealer coat applied	
2	TBT	Flat Bottom				<u>3000m²</u>		Unknown AF	<u>Unknown</u>	<u>S</u>		to all over submerged area before tin free coating	
Inve	ntory part I-1.2	+	1	•		+	+		+		ı .		
1	Asbestos	Lower Deck	Main engine	Exh.pipe packing	0.25	<u>14</u>		<u>Diesel Co.</u>	Y	V		<u>M-100</u>	
2	Asbestos	3rd Deck	Aux. boiler	Lagging		<u>12</u>		<u>Unknown</u> lagging	<u>Unknown</u>	<u>S</u>		<u>M-300</u>	
3	Asbestos	Engine room	Piping/flange	Packing					<u>PCHM</u>	V			
4	<u>HCFC</u>	2nd Deck	Ref. plant	Refrigerant(R22)	<u>20.00</u>	1		Reito Co.	Y	V		Maker's DWG	
<u>5</u>	Lead	Nav. Bri. Deck	<u>Batteries</u>		<u>6</u>	<u>16</u>		Denchi Co.	Y	V		<u>E-300</u>	
Inve	ntory part I-1.3												
1	Asbestos	<u>Upper Deck</u>	Back deck ceilings	E/Rceilings		<u>20m²</u>		Unknown Ceiling	<u>Unknown</u>	<u>S</u>		<u>O-25</u>	
	*3 Procedure of C	ments analysis: Y Check: V=Visual	Y=Contained, N=N check, S=Sampling	ot contained, Unknov g check PCHM=Potentially				hazardous materials	S				

Amended	Original	Remarks
An5 ONBOARD VISUAL/SAMPLING CHECK		- MEPC.379(80) APPENDIX 5 Para.5
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.		
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.		
3 The results of visual/sampling checks are to be recorded in		
the checklist. Any equipment, systems and/or areas of the ship that		
cannot be accessed for checks are to be classified as "potentially		
containing hazardous material". In this case, the entry in the "Result		
of check" column is to be "PCHM".		
An6 PREPARATION OF PART I OF THE INVENTORY AND RELATED DOCUMENTATION		- MEPC.379(80) APPENDIX 5 Para.6
An6.1 Development of Part I of the Inventory of		
Hazardous Materials The results of the check and the estimated quantity of Hazardous		
Materials are to be recorded on the checklist. Part / 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.		
Checking and II avi are shown in Table And 1-1 and Table And 1-2.		

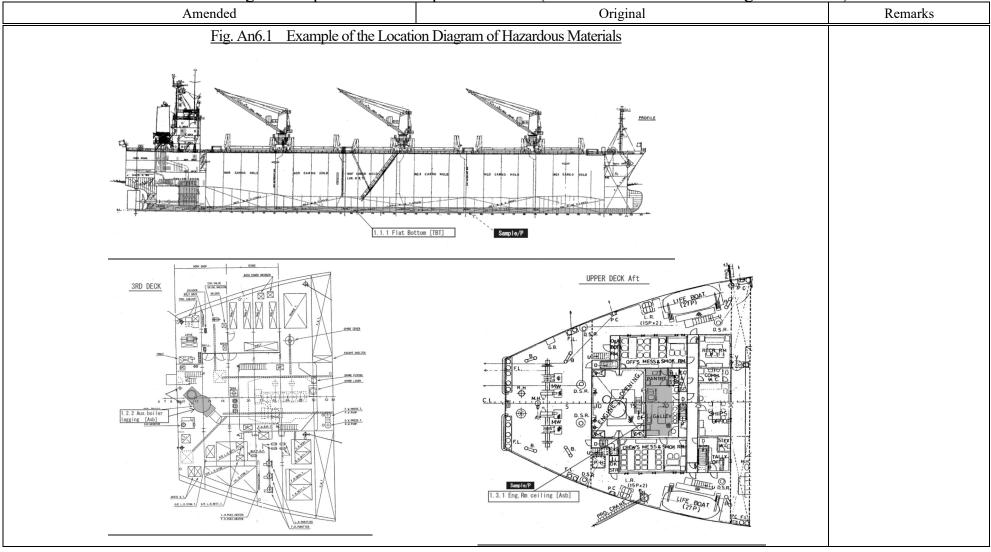
				nal Requires	mems	Compa	<u>a118011</u>	Table (Test			Casting	gs and omen	•
		1	Amended						Origina	al			Remark
<u>V</u> diag Ship exar	Mat Vith respect to ram of hazar Recycling 1	terials To Part I of the Todous material Tacility gain	ne IHM, the dals is recommendated visual under	Diagram of Hevelopment of ended in order standing of the bus materials is	a locati to help t	on he An							
				<u>Table An</u>	6.1-1 I	Example	of the C	<u>'hecklist</u>					
No.	Hazardous materials *1	<u>Location</u>	Name of equipment	Component	Quantity Unit (kg)	<u>No.</u>	Total (kg)	Manufacturer/ Brand name	Result of documents analysis *2	Procedure of check *3	Result of check *4	Reference/ DWG No.	
Inve	ntory part I-1.1	1	<u> </u>	1				1	1	1	1		
<u>1</u>	<u>TBT</u>	Top Side	Painting & coating	A/F Paints			<u>Nil</u>	P1000 Paints Co. /Marine P1000	<u>N</u>	V	N	On 1 August 200X, sealer coat applied to all over submerged area before tin free	
2	<u>TBT</u>	Flat Bottom			0.02	3000m ²	60.00	Unknown AF	<u>Unknown</u>	<u>s</u>	<u>Y</u>	coating	
<u>Inve</u>	ntory part I-1.2		1	T		1			1	T	1		
1	Asbestos	Lower Deck	Main engine	Exh.pipe packing	0.25	<u>14</u>	3.50	Diesel Co.	Y	V	Y	<u>M-100</u>	
<u>2</u>	<u>Asbestos</u>	3rd Deck	Aux. boiler	Lagging		<u>12</u>		Unknown lagging	<u>Unknown</u>	<u>S</u>	<u>N</u>	<u>M-300</u>	
<u>3</u>	<u>Asbestos</u>	Engine room	Piping/flange	Packing					<u>PCHM</u>	V	<u>PCHM</u>		
<u>4</u>	<u>HCFC</u>	2nd Deck	Ref. plant	Refrigerant(R22)	20.00	1	20.00	Reito Co.	Y	V	Y	Maker's DWG	
<u>5</u>	<u>Lead</u>	Nav. Bri. Deck	<u>Batteries</u>		<u>6</u>	<u>16</u>	<u>96.00</u>	Denchi Co.	<u>Y</u>	$\underline{\mathbf{V}}$	Y	<u>E-300</u>	

Inventory part I-1.3

Amended								,	Remarks				
1	Asbestos	Upper Deck	Back deck ceilings	E/Recilings	0.19	<u>20m²</u>	3.80	<u>Unknown</u> <u>Ceiling</u>	Unknown	<u>S</u>	Y	<u>O-25</u>	
													1
Notes:													
	*1 Hazardous Ma	terials: material d	classification										
*2 Result of documents analysis: Y=Contained, N=Not contained, Unknown, PCHM=Potentially containing hazardous materials													
*3 Procedure of Check: V=Visual check, S=Sampling check													
	*4 Result of Chec	k: Y=Contained	, N=Not contained,	PCHM=Potentially	containing]	hazardous r	naterials						

Amended	Original	Remarks							
Table An6.1-2 Example 2 Ex	Table An6.1-2 Example of the IHM for Existing Ships								
Lavoutoury of Horse	udova Matariala Eau "Samula Shin"								
inventory of Haza	rdous Materials For "Sample Ship"								
<u>Particul</u>	ars of the "Sample Ship"								
Distinctive number or letters	<u>: · · · · · · · · · · · · · · · · · · ·</u>								
Port of registry	: Port of World								
Type of vessel	: Bulk carrier								
<u>Gross tonnage</u>	<u>: 28,000GT</u>								
<u>IMO number</u>	<u>:</u>								
Name of shipbuilder	: O Shipbuilding Co. Ltd								
Name of shipowner	: D Maritime S.A.								
<u>Date of delivery</u>	:MM DD YYYY	3.5							
This inventory was developed in accordance with the IMO g	uideline for the development of the Inventory of Hazardous	Materials*1							
Attachment:									
1: Inventory of Hazardous Materials									
2: Assessment of collected information									
3: Location diagram of Hazardous Materials									
* Prepared by OOO (Name & address) (mm dd yyy	η								
, , , , , , , , , , , , , , , , , , , ,		1							
*1 If the other regulation such as Article 5 of EU-SRR is app	ned in addition to IIVIO Guidelines, it should be indicated cle	early.							

	Amended Original Original								ırks	
	Inventory of Hazardous Materials: "Sample Ship"									
I-1 Paints and coating systems containing materials listed in Table A and Table B of the IMO guidelines*2										
<u>No.</u>	Application of paint	Name of paint	Location *1	Materials (classification in appendix 1)	Approx.	<u>quantity</u>	<u>Remarks</u>			
1	AF paint	<u>Unknown paints</u>	Flat bottom	<u>TBT</u>	60.00	<u>kg</u>	Confirmed by sampling			
2										
<u>3</u>										
<u>I-2</u>	Equipment and machinery containing	ng materials listed in Table		ines*2						
<u>No.</u>	Name of equipment and machinery	Location *1	Materials (classification in Appendix 1)	Parts where used	Approx.	quantity	<u>Remarks</u>			
1	Main engine	Lower floor	<u>Asbestos</u>	Exh. pipe packing	3.50	<u>kg</u>				
	_						PCHM (potentially			
2	Aux. boiler	3rd deck	<u>Asbestos</u>	Unknown packing	10.00	<u>kg</u>	containing Hazardous			
							Material)			
<u>3</u>	Piping/flange	Engine room	<u>Asbestos</u>	Packing	<u>50.00</u>	<u>kg</u>	<u>PCHM</u>			
<u>4</u>	Ref. provision plant	2nd deck	<u>HCFC</u>	Refrigerant (R22)	20.00	kg	_			
<u>5</u>	Batteries	Navig. Bridge deck	<u>Lead</u>		96.00	<u>kg</u>				
<u>I-3</u>	Structure and hull containing materia	als listed in Table A and T								
<u>No.</u>	Name of structural element	Location *1	Materials (classification in appendix 1)	Parts where used	Approx.	quantity	<u>Remarks</u>			
1	Back deck ceiling	Upper deck	<u>Asbestos</u>	Engine room ceiling (A class)	3.80	<u>kg</u>	Confirmed by sampling			
2										
3										
	Notes:			•	•	•				
		order based on its locatio	n, from a lower level to an upper le	vel and from a fore part to an aft par	<u>t.</u>					
	*2 If the other regulation such as E	EU SRR is applied in addi	tion to IMO Guidelines, these tiles	should be amended reflecting it.						



8	omparison Table (Test blocks for steel castings and othe	/
Amended	Original	Remarks
ANNEX 2-5 SPECIFIC TEST METHODS		- MEPC.379(80) APPENDIX 9
(Appendix 9 of MEPC.379(80))		ALT ENDIA 9
An1 Asbestos		
AIII ASUCSUS		
An1.1 Types of Asbestos		
The following (1) to (6) asbestos types are to be tested.		
(1) Actinolite CAS 77536-66-4		
(2) Amosite (Grunerite) CAS 12172-73-5		
(3) Anthophyllite CAS 77536-67-5		
(4) Chrysotile CAS 12001-29-5		
(5) Crocidolite CAS 12001-28-4		
(6) Asbestos Tremolite CAS 77536-68-6		
An1.2 Specific Testing Techniques		
1 Asbestos is to be tested using the following (1) to (3)		
methods as applicable.		
(1) Polarized Light Microscopy (PLM)		
(2) Electron microscope techniques		
(3) X-Ray Diffraction (XRD)		
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.		
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.		

Amended	Original	Remarks
	Original	Remarks
Considering the demand from the operators and 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.		
(1) Asbestos not detected		
(2) Traces of asbestos detected		
(3) Asbestos content approx. 1% to 15% by mass		
(4) Asbestos content approx. 15% to 40% by mass		
(5) Asbestos content greater than 40% by mass		
An1.3 Specific Reporting Information		
1 The presence/no presence of asbestos, indicate the		
concentration range, and state the type when necessary.		
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.		
An2 Polychlorinated Biphenyls (PCB)		
An2.1 Types of Polychlorinated Biphenyls (<i>PCB</i>)		
1 There are 209 different congeners (forms) of <i>PCB</i> of it is		
impracticable to test for all. Various organizations have developed		
lists of <i>PCB</i> 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		

Amended	Original	Remarks
the Sea (<i>ICES</i>). Method 2 identifies 19 congeners and seven types of		110111111
aroclor (<i>PCB</i> mixtures commonly found in solid shipboard materials		
containing <i>PCB</i>).		
2 The PCB specified in (1) or (2) are to be tested.		
(1) Method 1: <i>ICES</i> 7 congeners (28, 52, 101, 118, 138, 153,		
180)		
(2) Method 2: 19 congeners and seven types of aroclor, using		
the US EPA 8082a test		
3 Laboratories are to be familiar with the requirements and		
consequences for each of these lists.		
An2.2 Specific Testing Techniques		
1 Applicable mixtures (such as aroclors) are to be tested using		
the following (1) to (3) methods.		
(1) GC-MS (congener specific)		
(2) GC-ECD (3) GC-ELCD		
2 standard samples must be used for each type.		
3 Certain field or indicator tests are suitable for detecting <i>PCB</i>		
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.		
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 number of <i>PCB</i> in small quantities, therefore the		

	omparison Table (Test blocks for steel castings and othe	
Amended	Original	Remarks
presence of these small quantities indicates the potential for a mix		
containing far higher quantities of other <i>PCB</i>).		
4 00 G 4 D 4		
An2.3 Sample Preparation		
It is important to properly prepare <i>PCB</i> 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 <i>PCB</i>		
since they are chemically bound within the product.		
An2.4 Specific Reporting Information		
1 PCB congener, ppm per congener in sample, and for		
Method 2, ppm per aroclor in sample are to also be reported.		
2 Many reports refer to "total <i>PCB</i> ", which is often a scaled		
figure to represent likely total PCB based on the sample and the		
common ratios of <i>PCB</i> 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.		
An3 Ozone-depleting Substances		
An3.1 Types of Ozone-depleting Substances		
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>(1) CFC</u>		
(2) Halons		
(3) <i>HCFC</i>		
(4) Other listed substance as required by Montreal Protocol		

Amended Amended	Original	Remarks
1 mondou		Itelliani
An3.2 Specific Testing Technique		
Ozone-depleting substances are to be tested using the following		
(1) to (3) methods.		
(1) Gas Chromatography-Mass Spectrometry (GC-MS)		
(2) Coupled Electron Capture Detectors (GC-ECD)		
(3) Electrolytic Conductivity Detectors (GC-ELCD)		
(= - = - =)		
An3.3 Specific Reporting Information		
Ozone-depleting substances type and concentration are to be		
reported.		
And Anti-fouling Systems Containing Organotin		
Compounds as a Biocide and/or Cybutryne		
An4.1 Anti-fouling Systems Containing Organotin		
Compounds as a Biocide		
An4.1.1 Types of Anti-fouling Systems Containing		
Organotin Compounds as a Biocide		
Anti-fouling compounds and systems regulated under annex <i>I</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).		
(1) Tributyl tins (TBT)		
(2) Triphenyl tins (TPT)		
(3) Tributyl tin oxide (TBTO)		
A 412 C 16 T 1 T 1		
An4.1.2 Specific Testing Technique		
1 According to MEPC.356(78) (2022 Guidelines for brief		
sampling of anti-fouling systems on ships), adopted on 10 June 2022,	2247	

Amended	Original	Remarks
	Original	Kemarks
anti-fouling compounds and systems are to be tested using the		
following (1) to (5) methods as applicable.		
(1) ICPOES		
(2) ICP		
(3) AAS		
(4) XRF		
(5) GC-MS		
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.		
An4.1.3 Specific Reporting Information		
Organotin compound type and concentration are to be reported.		
Organoum compound type and concentration are to be reported.		
An4.2 Anti-fouling Systems Containing Cybutryne		
in wa the following systems containing system, no		
An4.2.1 Types of Anti-fouling Systems Containing		
<u>Cybutryne</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.		
An4.2.2 Specific Testing Technique		
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.		
The second of th		
An4.2.3 Specific Reporting Information		
Cybutryne concentration is to be reported.		

Amended	Original	Remarks
An4.3 Simplified Approach to Detect Organotin Compounds or Cybutryne		
Anti-fouling compounds and systems regulated under annex <i>I</i> to the International Convention on the Control of Harmful Anti-fouling Systems on Ships, 2001 (<i>AFS</i> Convention, as amended) are to be tested. This includes the following (1) and (2). (1) Organotin compounds as a biocide (2) Cybutryne		
An4.3.2 Specific Testing Technique 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. An4.3.3 Specific Reporting Information Organotin compound and cybutryne concentrations are to be reported.		

		Amended						Orig	ginal		Remarks
	ANNEX	2-6 FORM (OF MATERIAL								- MEPC.379(80)
DI	ECLARA	TION (Appendix	6 of MEPC.379(80))							APPENDIX 6
The fe	llarrina far	ma civra tha avramanta	of MD								
The to	nowing for	m give the example	e 01 <i>MID</i> .								
			Eam	of Materia	Doglarat	 ion				-	
	Date of Declar	ation	<u> </u>	OI Materia	Deciarai	1011					
	Date Of Decidary		7								
_			_								
	< MD ID No.2	<u>></u>			Supplier (Re		formation >				
L	MD-ID-No.				ompany Nan Pivision Name						
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	Remarks 1				ontact Persor	<u>1</u>					
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L	Remarks 3				AX No.						
					-mail address DoC ID No.						
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_	< Product Info	rmation >									
	Product Name	•	Product No.	Delivered un	D	roduct Inform	nation				
-	Trouber runne	<u>-</u>	Troduct 1 to.	Amount	Unit 1		ituro11				
	< Materials In	formation >				TT '					
	This materials	information charge the ar	nount of Hazardous Materials	contained		<u>Unit</u>	Linit: No. ka	m m	r^2 , m^3 , etc. of the		
	in	information shows the an	ioditi of Hazardous Materials	1			product.)	, 111, 111	1, III, Cic. Of the		
_											
				Threshold	Present		If YES, mater	rial 1	If YES, information on where it is		
	<u>Table</u>	Material name		value	threshold		mass Mana I Init		used		
l f	Table A	Asbestos	Asbestos	0.1%*1	YES/NO	<u>)</u>	Mass Unit				
				<u> </u>							

	Amended Amended					- (10.	Remarks		
		ychlorinated nenyls (PCB)	Polychlorinated biphenyl (PCB)	<u>50 mg/kg</u>					
		one-depleting stances	Chlorofluorocarbons (CFC) Halon Other fully halogenates CFC Carbon tetrachloride 1,1,1-Trichloroethane (Methyl chloroform) Hydrochlorofluorocarbons						
			Hydrobromofluorocarbons Methyl bromide Bromochloromethane						
	cont	i-fouling systems taining organotin npounds as a vide		2500 mg total tin/kg					
		i-fouling systems taining cybtryne		200 mg/kg *2					
					Present above	If YES	, material		
<u>Tabl</u>	ble Mat	terial name		Threshold value	threshold value YES/NO	mass Mass	Unit	If YES, information on where it is used	
	Hex	Imium and cadmium o cavalent chromium a npounds	nd hexavalent chromium	100 mg/kg 1,000 mg/kg					
<u>Tabl</u>	ole B Lead	d and lead compounds		1,000 mg/kg 1,000 mg/kg					
listed	ed in Poly	ybrominated biphenyls	s (PBB)	50 mg/kg					
<u>of</u>	the Poly	ybrominated diphenyl ychlorinated naphthale		1,000 mg/kg 50 mg/kg					
Con	nvention)	lioactive substances		No threshold value					
		tain short-chain chlor 0-C13, chloro)	inated paraffins (Alkanes,	1%					

Amended	Original	Remarks				
	stallation of materials which contain asbestos shall be prohibited. According to the assification and Labelling of Chemicals (GHS)" adopted by the United Nations					
Economic and Social Council's Sub-Committee of Experts on the	Economic and Social Council's Sub-Committee of Experts on the Globally Harmonized System of Classification and Labelling of Chemicals (UNSCEGHS), 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%.					
*2 When samples are directly taken from the wet paint containers, average vadry paint.	llues of cybutryne should not be present above 200 mg of cybutryne per kilogram of					

Amended		Original	Remarks
ANNEX 2-7 FORM OF SUPPLI	IER'S		- MEPC.379(80)
DECLARATION OF CONFORM	<u>ITY</u>		APPENDIX 7
(Appendix 7 of MEPC.379(80))			
The following form give the example of <i>SDoC</i> .			
<u>Form</u>	of Supplier's Declaration of Conformity		
	1D 1 4 M		
Supplier's Declaration of Conformity for Materi	iai Declaration Management		
1) SDoC ID No.:			
ij sbecibne.			
2) <u>Issuer's Name:</u>		•	
<u>Issuer's Address:</u>			
3) Object(s) of the Declaration:			
		_	
4) The object(s) of the declaration described a	above is in conformity with the following		
Document No.:	<u>Title:</u>	Edition/Date of Issue	
		_	

	Amended	Original	Remarks
<u>5)</u>	Additional Information:		
<u>6</u>)	Signed for and on behalf of:		
	Name, designation		
	Name, designation of authorized person	Signature of authorized person	
	Place of issue	<u>Date of issue</u>	

Amended	Original	Remarks
ANNEX 3-1 EXAMPLES OF TABLE 1.1.2-1 AND	5	
TABLE 1.1.2-2 MATERIALS OF THE RULES WITH		
CAS NUMBERS (Appendix 8 of MEPC.379(80))		
*This list was developed with reference to Joint Industry Guide		
-		
No.101.		
*This list is not exhaustive; it represents examples of chemicals		
with known CAS numbers and may require periodical updating.		
Materials listed in Table 1.1.2-1		
A. Asbestos		
Substances	CAS Numbers	
Asbestos	1332-21-4	
Actinolite	77536-66-4	
Amosite (Grunerite)	12172-73-5	
Anthophyllite	77536-67-5	
<u>Chrysotile</u>	<u>12001-29-5</u>	
Crocidolite	<u>12001-28-4</u>	
Tremolite	<u>77536-68-6</u>	
B. Polychlorinated biphenyls (PCB)		
Substances	CAS Numbers	
Polychlorinated biphenyls	1336-36-3	
Aroclor	12767-79-2	
Chlorodiphenyl (Aroclor 1260)	<u>11096-82-5</u>	
Kanechlor 500	<u>27323-18-8</u>	
Aroclor 1254	<u>11097-69-1</u>	
C. Ozone-depleting substances/isomers (they may contain isomers t	that are not listed here)	
Substances	CAS Numbers	
Trichlorofluoromethane (CFC11)	<u>75-69-4</u>	
Dichlorodifluoromethane (CFC12)	<u>75-71-8</u>	

Amended	nai Requirements Comparison 1	Original	Remarks
Chlorotrifluoromethane (CFC 13)		75-72-9	
Pentachlorofluoroethane (CFC 111)		<u>354-56-3</u>	
Tetrachlorodifluoroethane (CFC 112)		<u>76-12-0</u>	
Trichlorotrifluoroethane (CFC 113)		<u>354-58-5</u>	
1,1,2 Trichloro-1,2,2 trifluoroethane		<u>76-13-1</u>	
Dichlorotetrafluoroethane (CFC 114)		76-14-2	
Monochloropentafluoroethane (CFC	115)	76-15-3	
Heptachlorofluoropropane (CFC 211)	422-78-6, 135401-87-5	
Hexachlorodifluoropropane (CFC 21	2)	3182-26-1	
Pentachlorotrifluoropropane (CFC 21	3)	2354-06-5, 134237-31-3	
Tetrachlorotetrafluoropropane (CFC)	214)	29255-31-0	
1,1,1,3-Tetrachlorotetrafluoropropane		2268-46-4	
Trichloropentafluoropropane (CFC 2	<u>15)</u>	<u>1599-41-3</u>	
1,1,1-Trichloropentafluoropropane		<u>4259-43-2</u>	
1,2,3-Trichloropentafluoropropane		<u>76-17-5</u>	
Dichlorohexafluoropropane (CFC 21	<u>6</u>	<u>661-97-2</u>	
Monochloroheptafluoropropane (CFC	C 217)	<u>422-86-6</u>	
Bromochlorodifluoromethane (Halor	1211)	<u>353-59-3</u>	
Bromotrifluoromethane (Halon 1301	1	<u>75-63-8</u>	
Dibromotetrafluoroethane (Halon 24	<u>)2)</u>	<u>124-73-2</u>	
Carbon tetrachloride (Tetrachloromet	hane)	<u>56-23-5</u>	
1,1,1, - Trichloroethane (methyl chlor	oform) and its isomers except 1,1,2-trichloroethane	<u>71-55-6</u>	
Bromomethane (Methyl bromide)		<u>74-83-9</u>	
Bromodifluoromethane and isomers	HBFC's)	<u>1511-62-2</u>	
Dichlorofluoromethane (HCFC 21)	-	<u>75-43-4</u>	
Chlorodifluoromethane (HCFC 22)		<u>75-45-6</u>	
Chlorofluoromethane (HCFC 31)	-	<u>593-70-4</u>	
Tetrachlorofluoroethane (HCFC 121)		<u>134237-32-4</u>	
1,1,1,2-tetrachloro-2-fluoroethane (He	CFC 121a)	<u>354-11-0</u>	
1,1,2,2-tetracloro-1-fluoroethane		<u>354-14-3</u>	
Trichlorodifluoroethane (HCFC 122)		<u>41834-16-6</u>	
1,2,2-trichloro-1,1-difluoroethane		<u>354-21-2</u>	
Dichlorotrifluoroethane(HCFC 123)		<u>34077-87-7</u>	
Dichloro-1,1,2-trifluoroethane		90454-18-5	
2,2-dichloro-1,1,1-trifluroethane		306-83-2	

Amended	Original	Remarks
1,2-dichloro-1,1,2-trifluroethane (HCFC-123a)	354-23-4	
1,1-dichloro-1,2,2-trifluroethane (HCFC-123b)	812-04-4	
2,2-dichloro-1,1,2-trifluroethane (HCFC-123b)	812-04-4	
Chlorotetrafluoroethane (HCFC 124)	<u>63938-10-3</u>	
2-chloro-1,1,1,2-tetrafluoroethane	<u>2837-89-0</u>	
1-chloro-1,1,2,2-tetrafluoroethane (HCFC 124a)	<u>354-25-6</u>	
Trichlorofluoroethane (HCFC 131)	<u>27154-33-2;(134237-34-6)</u>	
1-Fluoro-1,2,2-trichloroethane	<u>359-28-4</u>	
1,1,1-trichloro-2-fluoroethane (HCFC131b)	<u>811-95-0</u>	
Dichlorodifluoroethane (HCFC 132)	<u>25915-78-0</u>	
1,2-dichloro-1,1-difluoroethane (HCFC 132b)	<u>1649-08-7</u>	
1,1-dichloro-1,2-difluoroethane (HFCF 132c)	<u>1842-05-3</u>	
1,1-dichloro-2,2-difluoroethane	<u>471-43-2</u>	
1,2-dichloro-1,2-difluoroethane	<u>431-06-1</u>	
Chlorotrifluoroethane (HCFC 133)	<u>1330-45-6</u>	
1-chloro-1,2,2-trifluoroethane	<u>1330-45-6</u>	
2-chloro-1,1,1-trifluoroethane (HCFC-133a)	<u>75-88-7</u>	
Dichlorofluoroethane(HCFC 141)	<u>1717-00-6; (25167-88-8)</u>	
1,1-dichloro-1-fluoroethane (HCFC-141b)	<u>1717-00-6</u>	
1,2-dichloro-1-fluoroethane	<u>430-57-9</u>	
Chlorodifluoroethane (HCFC 142)	<u>25497-29-4</u>	
1-chloro-1,1-difluoroethane (HCFC142b)	<u>75-68-3</u>	
1-chloro-1,2-difluoroethane (HCFC142a)	<u>25497-29-4</u>	
Hexachlorofluoropropane (HCFC 221)	<u>134237-35-7</u>	
Pentachlorodifluoropropane (HCFC 222)	<u>134237-36-8</u>	
Tetrachlorotrifluropropane (HCFC 223)	134237-37-9	
Trichlorotetrafluoropropane (HCFC 224)	<u>134237-38-0</u>	
Dichloropentafluoropropane, (Ethyne, fluoro-) (HCFC 225)	<u>127564-92-5; (2713-09-9)</u>	
2,2-Dichloro-1,1,1,3,3-pentafluoropropane(HCFC 225aa)	<u>128903-21-9</u>	
2,3-Dichloro-1,1,1,2,3-pentafluoropropane (HCFC 225ba)	<u>422-48-0</u>	
1,2-Dichloro-1,1,2,3,3-pentafluoropropane (HCFC 225bb)	<u>422-44-6</u>	
3,3-Dichloro-1,1,1,2,2-pentafluoropropane (HCFC 225ca)	<u>422-56-0</u>	
1,3-Dichloro-1,1,2,2,3-pentafluoropropane (HCFC 225cb)	<u>507-55-1</u>	
1,1-Dichloro-1,2,2,3,3-pentafluoropropane(HCFC 225cc)	13474-88-9	
1,2-Dichloro-1,1,3,3,3-pentafluoropropane (HCFC 225da)	<u>431-86-7</u>	

Amended	Original	Remarks
1,3-Dichloro-1,1,2,3,3-pentafluoropropane (HCFC 225ea)	136013-79-1	
1,1-Dichloro-1,2,3,3,3-pentafluoropropane(HCFC 225eb)	111512-56-2	
Chlorohexafluoropropane (HCFC 226)	134308-72-8	
Pentachlorofluoropropane (HCFC 231)	134190-48-0	
Tetrachlorodifluoropropane (HCFC 232)	<u>134237-39-1</u>	
Trichlorotrifluoropropane (HCFC 233)	<u>134237-40-4</u>	
1,1,1-Trichloro-3,3,3-trifluoropropane	<u>7125-83-9</u>	
Dichlorotetrafluoropropane (HCFC 234)	<u>127564-83-4</u>	
Chloropentafluoropropane (HCFC 235)	<u>134237-41-5</u>	
1-Chloro-1,1,3,3,3-pentafluoropropane	460-92-4	
Tetrachlorofluoropropane (HCFC 241)	<u>134190-49-1</u>	
Trichlorodifluoropropane (HCFC 242)	<u>134237-42-6</u>	
Dichlorotrifluoropropane (HCFC 243)	134237-43-7	
1,1-dichloro-1,2,2-trifluoropropane	<u>7125-99-7</u>	
2,3-dichloro-1,1,1-trifluoropropane	<u>338-75-0</u>	
3,3-Dichloro-1,1,1-trifluoropropane	460-69- <u>5</u>	
Chlorotetrafluoropropane (HCFC 244)	<u>134190-50-4</u>	
3-chloro-1,1,2,2-tetrafluoropropane	<u>679-85-6</u>	
Trichlorofluoropropane (HCFC 251)	<u>134190-51-5</u>	
1,1,3-trichloro-1-fluoropropane	<u>818-99-5</u>	
Dichlorodifluoropropane (HCFC 252)	<u>134190-52-6</u>	
Chlorotrifluoropropane (HCFC 253)	<u>134237-44-8</u>	
3-chloro-1,1,1-trifluoropropane (HCFC 253fb)	<u>460-35-5</u>	
<u>Dichlorofluoropropane (HCFC 261)</u>	<u>134237-45-9</u>	
1,1-dichloro-1-fluoropropane	<u>7799-56-6</u>	
Chlorodifluoropropane (HCFC 262)	<u>134190-53-7</u>	
2-chloro-1,3-difluoropropane	<u>102738-79-4</u>	
Chlorofluoropropane (HCFC 271)	<u>134190-54-8</u>	
2-chloro-2-fluoropropane	<u>420-44-0</u>	
D-1. Organotin compounds (tributyl tin, triphenyl tin, tributyl tin ox	<u>kide)</u>	
Substances	<u>CAS Numbers</u>	
Bis(tri-n-butyltin) oxide	<u>56-35-9</u>	
Triphenyltin N,N'-dimethyldithiocarbamate	<u>1803-12-9</u>	
Triphenyltin fluoride	<u>379-52-2</u>	

Amended	Original	Remarks
Triphenyltin acetate	900-95-8	
Triphenyltin chloride	639-58-7	
Triphenyltin hydroxide	76-87-9	
Triphenyltin fatty acid salts (C=9-11)	47672-31-1	
Triphenyltin chloroacetate	7094-94-2	
Tributyltin methacrylate	<u>2155-70-6</u>	
Bis(tributyltin) furnarate	6454-35-9	
Tributyltin fluoride	<u>1983-10-4</u>	
Bis(tributyltin) 2,3-dibromosuccinate	<u>31732-71-5</u>	
Tributyltin acetate	<u>56-36-0</u>	
<u>Tributyltin laurate</u>	<u>3090-36-6</u>	
Bis(tributyltin) phthalate	<u>4782-29-0</u>	
Copolymer of alkyl acrylate, methyl methacrylate and tributyltin methacry	<u>vlate (alkyl; C=8)</u> <u>-</u>	
<u>Tributyltin sulfamate</u>	<u>6517-25-5</u>	
Bis(tributyltin) maleate	<u>14275-57-1</u>	
<u>Tributyltin chloride</u>	<u>1461-22-9</u>	
Mixture of tributyltin cyclopentanecarboxylate and its analogs (Tributyltin	n naphthenate) <u>-</u>	
Mixture of tributyltin 1, 2, 3, 4, 4a, 4b, 5, 6, 10, 10adecahydro-7-isopropyl		
4a-dimethyl-1-phenanthlenecarboxylate and its analogs (Tributyltin rosin	salt) -	
Other tributyl tins & triphenyl tins	<u> </u>	
D-2. Anti-foulingsystemscontaining cybutryne		
Substances	<u>CAS Numbers</u>	
<u>Cybtorin</u>	<u>28159-98-0</u>	
Materials listed in Table 1.1.2-2		
A. Cadmium/cadmium compounds		
Substances	<u>CAS Numbers</u>	
<u>Cadmium</u>	7440-43-9	
<u>Cadmium oxide</u>	<u>1306-19-0</u>	
<u>Cadmium sulfide</u>	<u>1306-23-6</u>	
<u>Cadmium chloride</u>	<u>10108-64-2</u>	
<u>Cadmium sulfate</u>	<u>10124-36-4</u>	

Amended	Original	Remarks
Other cadmium compounds	:	
B. Chromium VI compounds		
Substances	CAS Numbers	
Chromium (VI) oxide	1333-82-0	
Barium chromate	<u>10294-40-3</u>	
Calcium chromate	13765-19-0	
Chromium trioxide	1333-82-0	
Lead (II) chromate	<u>7758-97-6</u>	
Sodium chromate	<u>7775-11-3</u>	
Sodium dichromate	<u>10588-01-9</u>	
Strontium chromate	<u>7789-06-2</u>	
Potassium dichromate	<u>7778-50-9</u>	
Potassium chromate	<u>7789-00-6</u>	
Zinc chromate	<u>13530-65-9</u>	
Other hexavalent chromium compounds	<u>=</u>	
C. Lead/lead compounds		
Substances	<u>CAS Numbers</u>	
Lead	<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>	
Lead (II) acetate, trihydrate	<u>6080-56-4</u>	
<u>Lead phosphate</u>	<u>7446-27-7</u>	
<u>Lead selenide</u>	<u>12069-00-0</u>	
Lead (IV) oxide	1309-60-0	
Lead (II,IV) oxide	<u>1314-41-6</u>	
<u>Lead (II) sulfide</u>	<u>1314-87-0</u>	
<u>Lead (II) oxide</u>	1317-36-8	
Lead (II) carbonate basic	<u>1319-46-6</u>	
<u>Lead hydroxidcarbonate</u>	<u>1344-36-1</u>	
Lead (II) phosphate	<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>	

Amended Amended		Original	Remarks
Lead sulfate, sulphuric acid, lead salt		15739-80-7	
Lead sulphate, tribasic		12202-17-4	
<u>Lead stearate</u>		<u>1072-35-1</u>	
Other lead compounds			
D. Mercury/ mercury compounds			
Substances		CAS Numbers	
Mercury		<u>7439-97-6</u>	
Mercuric chloride		<u>33631-63-9</u>	
Mercury (II) chloride		<u>7487-94-7</u>	
Mercuric sulfate		<u>7783-35-9</u>	
Mercuric nitrate		10045-94-0	
Mercuric (II) oxide		21908-53-2	
Mercuric sulfide		<u>1344-48-5</u>	
Other mercury compounds		=	
E. Polybrominated biphenyls (PBB) and polybrominated diphenyl	ethers (PBDE)		
Substances		CAS Numbers	
		2052-07-5 (2-Bromobiphenyl)	
B 111 1 15 1		2113-57-7 (3-Bromobiphenyl	
Bromobiphenyl and its ethers		92-66-0 (4-Bromobiphenyl)	
		101-55-3 (ether)	
D 1 11 1 12 1		<u>13654-09-6</u>	
Decabromobiphenyl and its ethers		1163-19-5 (ether)	
D'' 111 1 12 4		<u>92-86-4</u>	
<u>Dibromobiphenyl and its ethers</u>		2050-47-7 (ether)	
<u>Heptabromobiphenylether</u>		<u>68928-80-3</u>	
		<u>59080-40-9</u>	
Hexabromobiphenyl and its ethers		36355-01-8 (hexabromo-1,1'-biphenyl)	
riexabromobipnenyi and its etners		67774-32-7 (Firemaster FF-1)	
		36483-60-0 (ether)	
<u>Nonabromobiphenylether</u>		<u>63936-56-1</u>	
Octabromobiphenyl and its ethers		<u>61288-13-9</u>	
Octabiomobiphenyi and its etners		32536-52-0 (ether)	
Pentabromobidphenyl ether (note: commercially available PeBDPO is	s a complex reaction mixture	32534-81-9 (CAS number used for	
containing a variety of brominated diphenyloxides.		commercial grades of PeBDPO)	

Amended	Original	Remarks
Polybrominated biphenyls	<u>59536-65-1</u>	
Tetrabromobiphenyl and its ethers	<u>40088-45-7</u>	
<u>renation to opticity and its enters</u>	<u>40088-47-9 (ether)</u>	
<u>Tribromobiphenyl ether</u>	<u>49690-94-0</u>	
F. Polychlorinated naphthalenes		
<u>Substances</u>	<u>CAS Numbers</u>	
Polychlorinated naphthalenes	<u>70776-03-3</u>	
Other polychlorinated naphthalenes	<u> </u>	
G. Radioactive substances		
Substances	<u>CAS Numbers</u>	
<u>Uranium</u>	2	
<u>Plutonium</u>	<u> </u>	
Radon	<u> </u>	
Americium	<u>-</u>	
<u>Thorium</u>	<u>-</u>	
<u>Cesium</u>	<u>7440-46-2</u>	
Strontium	<u>7440-24-6</u>	
Other radioactive substances	<u> </u>	
H. Certain short-chain chlorinated paraffins (with carbon length	<u>n of 10-13 atoms)</u>	
Substances	<u>CAS Numbers</u>	
Chlorinated paraffins (C10-13)	<u>85535-84-8</u>	
Other short-chain chlorinated paraffins	<u>=</u>	

Amended	Original	Remarks
GUIDANCE FOR THE SHIP RECYCLING	(Establishment)	
Part I GENERAL		
CHAPTER 1 GENERAL		
1.2 Terms and Definitions		
1.2.1 Termiology		
1 If the Society authorizes the Ship Recycling Facilities		
specified in 1.2.1(7), Part I of the Rules, the requirements specified		
in Annex 1 of the Guidance are to be the standard.		
2 If authorization is granted to the Society by the Competent		
Authority(ies), the "Statement of Compliance" (hereinafter referred		
to as "SOC") used in Annex 1 of the Guidance is to be replaced by		
the "Document of Authorization to conduct Ship Recycling"		
(DASR).		

Amended	Original	Remarks
ANNEX 1 REQUIREMENTS FOR SHIP RECYCLING FACILITIES	5	Convention ARTICLE 4, 6
An1 ASSESSMENT		MEPC.211(63)
An1.1 General		
An1.1.1 Application 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.		Convention ARTICLE 2 Para.1.1 ARTICLE 3 Para 1.2
An1.1.2 Kind of Assessments Assessments are to be of the following kinds: (1) Initial Assessments (2) Annual Assessments (3) Renewal Assessments (4) Occasional Assessments		
An1.1.3 Intervals of Assessments Assessments are to be carried out in accordance with the following (1) through (4). (1) Initial Assessments are to be carried out when an assessment application is submitted for a Ship Recycling		
Facility. (2) Annual Assessments 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 them of validity, excluding its		

Amended	Original	Remarks
expiry date.		
(3) Renewal Assessments are to be completed prior to the		Convention ANNEX
expiry date of the existing SOC.		Reg.16.5
(4) Occasional Assessments are to be carried out on the		MEPC.211(63) Para.8.4
following occasions at times other than Initial Assessments		
or Renewal Assessments.		
(a) The Ship Recycling Facility applies for the SOC		
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 SOC;		
(b) The SOC amendment is triggered by compelling		
needs on the part of Competent Authority(ies); for		
example, when new domestic regulations are put into		
effect;		
(c) The SOC amendment is triggered by a deviation of		
practice at the Ship Recycling Facility from the SRFP,		
which thereby affect the contents of the SOC;		
(d) The SOC amendment is triggered by a change in the		
Hazardous Materials which the Ship Recycling		
Facility can remove, store and process; and (e) Whenever the assessment is considered necessary by		
the Society.		
are society.		
An1.1.4 Preparation for Assessments and Other related		
<u>Matters</u>		
1 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.		

	omparison Table (Test blocks for steel castings and other	
Amended	Original	Remarks
2 Applicants for assessments are to arrange supervisors who are well conversant with all of the assessment items required for the		MEPC.211(63) Para.7
preparation of such assessments, and who are able to provide all		
necessary assistance to the assessor according to their requests		
during such assessments.		
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.		
An1.2 Initial Assessments		
AH1.2 Illital Assessments		
An1.2.1 Submission of Plans and Documents for Application (Paragraph 4 of MEPC.211(63) ANNEX) 1 For Ship Recycling Facilities intending to undergo Initial Assessments, the plans and documents specified in the following (1)		
to (3) are to be submitted to the Society. (1) Application for authorization to conduct Ship Recycling		MEPC.211(63) Para4.1
 (2) Copy of SRFP (3) Any other documentation or certification required under applicable international or national legislation, including those related to Ship Recycling activity 		MEPC.211(63) Para5.1
2 At the time of the acceptance of the application, if deficiencies are found in the submissions specified in -1, the Society		MEPC.211(63) Para4.1
may add, amend, ask for additional submission or return the plans		
and documents.		

	imparison Table (Test blocks for steel castings and othe	/
Amended	Original	Remarks
An1.2.2 Submission of Plans and Documents for Reference (Paragraph 5 of MEPC.211(63) ANNEX)		
For Ship Recycling Facilities intending to undergo the Initial		MEPC.211(63) Para5
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		
<u>An1.2.1-1.</u>		MEPC.211(63) Para5.1
(1) General		WIE C.211(05)1 ata5.1
(a) SRFP		
(b) Any other documentation and/or certification required		
under applicable international or national legislation,		
including those related to Ship Recycling activity		
(c) A documented management system aimed at		
protecting human health and the environment without		
posing any unacceptable risks (including the		
appropriate procedures and techniques)		MEPC.211(63) Para5.2
(2) Management of Hazardous Materials		
(a) Procedures for environmentally sound management of		
Hazardous Materials and wastes		
(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		
(c) Documentation certifying that procedures to send all		
Hazardous Materials and wastes to authorized waste		
management and disposal sites have been established		
and demonstrating these site's compliance with		

	omparison Table (Test blocks for steel castings and other	1
Amended	Original	Remarks
international and national regulations		
(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		MEPC.211(63) Para5.3
workers, human health or the environment		
(3) Other		
(a) Evidence and procedures that the Ship Recycling		
Facility undertake all necessary steps to fulfil the		
requirements of applicable international and national		
legislation		
(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		
(c) The Society may require an environmental impact		
study from Ship Recycling Facilities		
An1.2.3 Method of Initial Assessments		
In the Initial Assessment, the plans and documents submitted in		Convention ANNEX Reg 16.2,
accordance with An1.2.1-1 are to be assessed to confirm that the		Reg 10.2,
SRFP and related systems comply with An3 (hereinafter, this		MEPC.211(63)
confirmation is to be referred to as "Verification of		Para 6, Para 7
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		
effectively implemented (hereinafter, this confirmation is to be		
referred to as "Site Inspection").		

Amended	Original	Remarks
	<u> </u>	
An1.2.4 Verification of Documentation (Paragraph 4, 5 and 6		
of MEPC.211(63) ANNEX)		
1 At Verification of Documentation, the following		MEPC.211(63) Para 6
verifications are to be carried out:		
(1) Confirmation that the SRFP includes the policies, plans,		
systems and other items specified in An3		
(2) Confirmation that the SRFP and related systems comply		
with An3		
2 The SRFP is to be used as the main document in issuing the		MEPC.211(63) Para 5.1
SOC.		
3 In order to grasp and understand the actual situation of Ship		MEPC.211(63) Para 4.1
Recycling Facility subject to the SRFP, and in order to planning Site		
Inspection, the Society may conduct preliminary inspection of the		
Ship Recycling Facility prior to the Site Inspection.		
An1.2.5 Site Inspection (Paragraph 7 of MEPC,211(63)		
ANNEX)		MEPC.211(63) Para 7
1 General (1) Site Improcione are to be conducted at Shop Pocycling.		1VIET C.211(05)1 ata 7
(1) Site Inspections are to be conducted at Shop Recycling Facilities applying for approval.		
(2) In advance of, during and following the Site Inspection, any necessary information should be provided by the Ship		
Recycling Facility.		
		
(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.		
(4) If the Ship Recycling Facility is under construction or not		
fully operational, the Site Inspection should be conducted		
as far as practicable. In such a case, an additional follow-up		
as iai as practicable. In such a case, an auditional follow-up		

Amended	Original	Remarks
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.		
2 Purpose		MEPC.211(63) Para 7
The main purpose of the Site Inspection is to check the		
consistency of the SRFP and relevant documentation with the actual		
arrangements and operations at the Ship Recycling Facility.		
3 Inspection Plan		MEPC.211(63) Para 7
(1) 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.		
(2) 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.		
(3) 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 for reference when		
making the site inspection plan.		
(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.		

Amended	Original	Remarks
4 Safety	S	MEPC.211(63) Para 7
Safety issues are to be considered and sufficient precautions taken		(1.2)
throughout the Site Inspection, including with respect to personal		
protection.		
5 Method of Site Inspection		MEPC.211(63) Para 7
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.		
(1) Safety, environmental protection and waste handling		
procedures established by the Ship Recycling Facility are		
functioning		
(2) A SRFP exists and it is being fully implemented. In		
particular, the following factors should be verified:		
(a) availability of the <i>SRFP</i> to all personnel at the Ship		
Recycling Facility;		
(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		
(c) implementation of the objectives of the SRFP, as		
demonstrated by implementation of operational		
procedures in:		
 i) ship preparation processes; 		
ii) monitoring of Safe-for-entry and		
Safe-for-hot-work conditions;		
iii) deconstruction processes;		
iv) hot work processes;		
v) management of Hazardous Materials and wastes		
(protective measures and removal, transport,		

Amended Amended	Original	Remarks
storage and disposal); and	5	
vi) emergency preparedness		
(3) The Site Inspection should identify procedures and		
routines:		
(a) developing and using the Ship Recycling Plan (SRP);		
(b) accepting ships, taking into account relevant		
requirements and the required certificates;		
(c) reporting and following up incidents; and		
(d) conducting operations in a safe and environmentally		
sound manner, in accordance with the requirements of		
the Convention		
6 Verification of Operational Limitations		
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.		
7 Management of Hazardous Materials and Wastes		
In the Site Inspection, the following (1) to (3) are to be confirmed		
regarding the management of Hazardous Materials and wastes:		
(1) All sites utilizing established procedures, methods,		
arrangements and facilities for the removal, storage,		
processing (incineration, reclamation and specific		
treatment), transport and disposal of Hazardous Materials and wastes are to be inspected.		
(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.		
(3) In cases where the Ship Recycling Facility is engaging one		
to an excellent are simplified in engaging one		

Amended Amended	Original	Remarks
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.		
8 Assessment on Emergency Preparedness and Response		
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.		
9 Notification of Results		
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 the Ship Recycling Facility and reach an		
agreement upon a time frame for which the corrective actions are to		
be taken.		
An1.3 Renewal Assessment		
1 At a Renewal Assessment, the Society is to review all		
aspects of the SRFP and relevant systems, and verify that they are		
effectively implemented in accordance with An3.		
2 Renewal Assessment is, in principle, to be conducted in		
accordance with An1.2 ("Initial Assessment") with relevant changes		
made as needed. If there have been changes and corrective action to		

	omparison Table (Test blocks for steel castings and othe	
Amended	Original	Remarks
the SRFP and relevant systems since the previous inspection, the		
Ship Recycling Facility is to submit an appropriately amended SRFP		
and documentation for relevant systems.		
An1.4 Annual Assessment		
1 At an Annual Assessment, the Society is to review all		
aspects of the SRFP and relevant systems, and verify that they are		
effectively implemented in accordance with An3.		
2 Annual Assessment is, in principle, to be conducted in		
accordance with An1.3 ("Renewal Assessment") with relevant		
changes made as needed. If there have been changes and corrective		
action to the SRFP and relevant systems since the previous		
inspection, the Ship Recycling Facility is to submit an appropriately		
amended SRFP and documentation for relevant systems.		
An1.5 Occasional Assessment		
(Paragraph 8.4 of MEPC. 211 (63) ANNEX)		
1 At an Occasional Assessment, the Society is to review items		
specified in An1.1.3(4), and verify that the SRFP and relevant		
systems are effectively implemented in accordance with An3 .		
2 Occasional Assessment is, in principle, to be conducted in		
accordance with An1.2 ("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.		

	omparison Table (Test blocks for steel castings and other	
Amended	Original	Remarks
An1.6 Non-conformities (Regulation 16.6 of Annex)		
When the Society finds any non-conformities with An3 or any		Convention ANNEX
deviations from the SRFP during the Site Inspection and requests		Para.16.6
that corrective action need to be taken in response, the Ship		MEPC.211(63) Para.8.5
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.		
discretion of the society.		
An2 AUTHORIZATION		
An2.1 Issuance of the Statement of Compliance (SOC) and		
Official Announcement		
(Paragraph 8.3 of MEPC.211(63) ANNEX)		
12 th als raph one of the control of the transfer of the control o		
1 The Society is to issue a SOC to the Ship Recycling Facility		MEPC.211(63) Para.8.3
if the results of Initial Assessment and Renewal Assessment prove		
satisfactory.		
2 The SOC is not to be issued until all required documentation		
has been received and the Site Inspection has been successfully		
completed.		
3 The supplement to the SOC is to be permanently attached to		
the SOC.		
4 The SOC is to be maintained at the Ship Recycling Facility		
at all times.		
5 The Society will officially announce a list of authorized Ship		
Recycling Facilities.		

	mparison Table (Test blocks for steel castings and other	/
Amended	Original	Remarks
An2.2 Valid Term of the Statement of Compliance (SOC)		
(Regulation 16.5 of Annex)		
 1 The SOC is to be issued for a period determined by the Society not exceeding 5 years. 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. 		Convention ANNEX Reg.16.5 MEPC.211(63) Para.9 Convention ANNEX Reg.16.5 MEPC.211(63) Para.9
The new owner is to also provide any supporting documentation requested by the Society. If operations at the Ship Recycling Facility are changed in such a way as to affect the conditions on which authorization was granted, the Society may amend, suspend or withdraw the SOC and inform the new owner accordingly.		
<u>An2.3 Withdrawal (Paragraph 8.5 and 8.6 of MEPC,211(63)</u> <u>ANNEX)</u>		
In case an authorized Ship Recycling Facility falls under one of the following (1) though (7), the Society may withdraw the authorization. Upon such a withdrawal, the Society will notify the Ship Recycling Facility accordingly.		MEPC.211(63) Para.8.5 MEPC.211(63) Para.8.6
 In cases where the compliance of the Ship Recycling Facility to relevant requirements is in doubt. In cases where appropriate corrective actions requested by the Society have not been taken by the date designated by 		
(3) In cases where the approved condition has not complied with the technical requirements concerned due to alteration		

Amended	Original	Remarks
of the requirements.		
(4) In cases where either the Renewal Assessment or the		
Occasional Assessment specified respectively in An1.3 and		
An1.4 is not carried out.		
(5) In cases where willful acts or omissions are ascertained.		
(6) In cases where the Ship Recycling Facility has deliberately		
<u>falsified reports.</u>		
(7) In cases where the Ship Recycling Facility notifies the		
Society of its intent to no longer comply with this annex.		
A A CHAIR DECINOL DIG EACH VEHEC		
An3 SHIP RECYCLING FACILITIES		
An3.1 General (Regulation 17 of Annex)		
An3.1.1 Application		
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.		
An3.1.2 General Requirements		~
1 Ship Recycling Facilities are to establish management		Convention ANNEX Reg.17.1
systems, procedures and techniques which do not pose health risks to		105.17.1
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 <i>IMO</i> Resolution		
MEPC.210(63) "2012 Guidelines for Safe and Environmentally		
Ship Populing Engilities are to comply with the following		Convention ANNEX
2 Ship Recycling Facilities are to comply with the following		Conveniion i ii ii ii ii ii

Amended	Original	Remarks
(1) to (3) when recycling a ship.		Reg.17.2
(1) Ship Recycling Facilities are to only accept ships that		
comply with the Rules.		
(2) Ship Recycling Facilities are to only accept ships which		
they are authorized to recycle.		
(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.		
3 When preparing to receive a ship for recycling, a Ship		- Convention ANNEX Reg.24.1
Recycling Facility is to notify in due time and in writing the Society		Keg.24.1
of its intent. The notification is to include at least the following ship		
details:		
(1) name of the state whose flag the ship is entitled to fly		
(2) date on which the ship was registered with that state		
(3) ship's identification number (<i>IMO</i> number)		
(4) hull number on new-building delivery		
(5) name and type of the ship		
(6) port at which the ship is registered		
(7) name and address of the shipowner as well as the <i>IMO</i>		
registered owner identification number		
(8) name and address of the company as well as the <i>IMO</i>		
company identification number		
(9) name of all classification societies with which the ship is classed		
(10) ship's main particulars (length overall (<i>LOA</i>), breadth		
(moulded), depth (moulded), lightweight, gross and net		
tonnage, and engine type and rating)		
(11) IHM		
(12) a draft Ship Recycling Plan (SRP) for approval pursuant to		
112) a diate only recogning I tall for a peroval parsuant to		

Amended-Original Requirements Comparison Table (Test blocks for steel castings and others) Amended Original Remarks		
	Original	Kelliaiks
the Rules.		
4 An example of the Ship Recycling process from preparation		
to completion is shown in Annex 2.		
An3.2 Ship Recycling Facility Plan (SRFP) (Regulation 18 of		
ANNEX)		
1 Chia Describe Capilities and to appear a CDED. The along is		Convention ANNEX
1 Ship Recycling Facilities are to prepare a <i>SRFP</i> . The plan is to be adopted by the board or the appropriate governing body of the		Reg 18
Recycling Company.		
2 The SRFP is to be developed taking into account IMO		Convention ANNEX
Resolution <i>MEPC</i> .210(63) "2012 Guidelines for Safe and		Reg 18
Environmentally Sound Ship Recycling'.		
3 SRFP is to include following (1) to (9).		Convention ANNEX
(1) A policy ensuring workers' safety and the protection of		Reg 18
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.		
(2) 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.		
(3) Identification of roles and responsibilities for employers		
and workers when conducting Ship Recycling operations.		
(4) A programme for providing appropriate information and		
training of workers for the safe and environmentally sound		
operation of the Ship Recycling Facility.		

Original	Remarks
	Convention ANNEX
	Reg 9
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Amended		Original	Remarks
	necessary;		
(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 Materials will be managed;		
<u>(4)</u>	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:		
	(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;		
	<u>and</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		
(5)	Plan (SRP) is to be deemed to be approved.		
<u>(5)</u>	once approved in accordance with (4), be made available		
	for inspection by the Administration, or any nominated		
	surveyors or organization recognized by it; and		

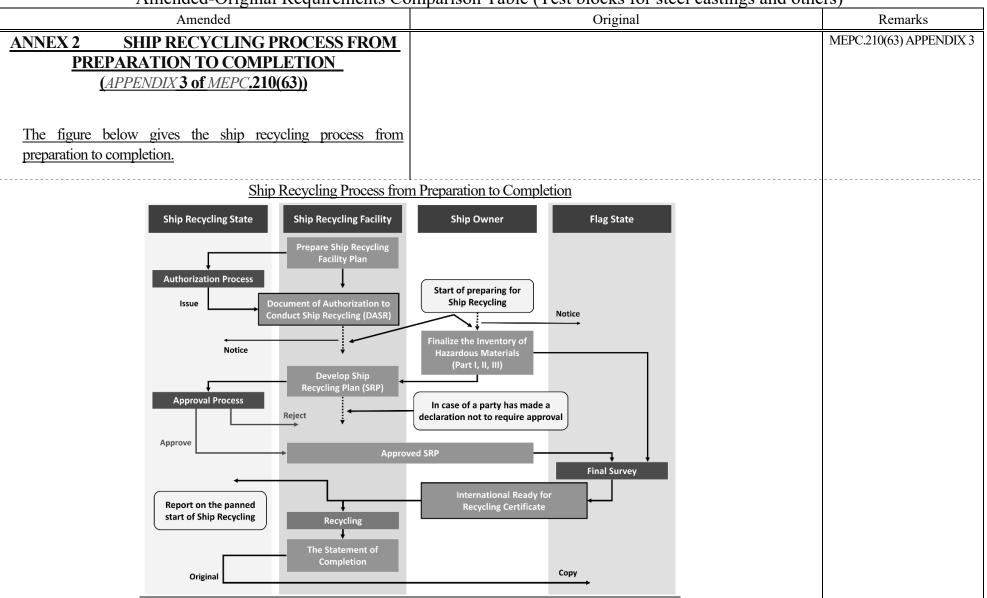
Amended	Original	Remarks
	Original	Remarks
(6) where more than one Ship Recycling Facility is used,		
identify the Ship Recycling Facilities to be used and specify		
the recycling activities and the order in which they occur at		
each authorized Ship Recycling Facility.		
An3.4 Prevention of Adverse Effects to Human Health and		
the Environment (Regulation 19 of Annex)		
Ship Recycling Facilities are to establish and utilize procedures		Convention ANNEX
taking into account <i>IMO</i> Resolution <i>MEPC</i> .210(63) "2012		Reg 19
Guidelines for Safe and Environmentally Sound Ship Recycling" are		
to prevent the following:		
(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:		
(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;		
(3) other accidents, occupational diseases and injuries or other		
adverse effects on human health or the environment; and		
(4) spills or emissions throughout Ship Recycling which may		
cause harm to human health or the environment.		
An3.5 Safe and Environmentally Sound Management of		
Hazardous Materials (Regulation 20 of Annex)		
1 Ship Recycling Facilities are to ensure safe and		Convention ANNEX
1 Ship recogning facilities are to ensure safe and		Reg 20.1

	omparison rable (rest blocks for steel castings and othe	· '
Amended	Original	Remarks
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.		
2 Ship Recycling Facilities are to ensure that all Hazardous		Convention ANNEX
Materials detailed in the IHM are identified, labelled, packaged and		Reg 20.2
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:		
 hazardous liquids, residues and sediments; 		
(2) substances or objects containing heavy metals such as lead,		
mercury, cadmium and hexavalent chromium;		
(3) paints and coatings that are highly flammable and/or lead to		
toxic releases;		
(4) asbestos and materials containing asbestos;		
(5) PCB and materials containing PCB, ensuring that heat		
inducing equipment is avoided during such operations;		
(6) CFC and halons; and		
(7) other Hazardous Materials not listed above and that are not		
a part of the ship structure.		
3 Ship Recycling Facilities are to provide for and ensure safe		Convention ANNEX
and environmentally sound management of all Hazardous Materials		Reg 20.3
and wastes removed from the ship recycled at that Ship Recycling		
Facility. Waste management and disposal sites are to be identified to		
provide for the further safe and environmentally sound management		
of materials.		

Amended Amended	Original	Remarks
	Onginai	Convention ANNEX
4 All wastes generated from the recycling activity are to be		Reg 20.4
kept separate from recyclable materials and equipment, labelled,		8
stored in appropriate conditions that do not pose a risk to the		
workers, human health or the environment and only transferred to a		
waste management facility authorized to deal with their treatment		
and disposal in a safe and environmentally sound manner.		
An3.6 Emergency Preparedness and Response (Regulation 21		
of Annex)		
Chia Dannilla Fallitia and Assaultid and accident		Convention ANNEX
Ship Recycling Facilities are to establish and maintain an		Reg 21
emergency preparedness and response plan. The plan is to be made		
having regard to the location and environment of the Ship Recycling		
Facility and is to take into account the size and nature of activities		
associated with each Ship Recycling operation. The plan is to		
<u>furthermore:</u>		
(1) ensure that the necessary equipment and procedures to be		
followed in the case of an emergency are in place, and that		
drills are conducted on a regular basis;		
(2) ensure that the necessary information, internal		
communication and coordination are provided to protect all		
people and the environment in the event of an emergency at		
the Ship Recycling Facility;		
(3) provide for communication with, and information to, the		
relevant Competent Authority(ies), the neighborhood and		
emergency response services;		
(4) provide for first aid and medical assistance, firefighting and		
evacuation of all people at the Ship Recycling Facility,		
pollution prevention; and		
(5) provide for relevant information and training to all workers		

Amended	Original	Remarks
of the Ship Recycling Facility, at all levels and according to		
their competence, including regular exercises in emergency		
prevention, preparedness and response procedures.		
An3.7 Worker Safety and Training (Regulation 22 of Annex)		
1 Ship Recycling Facilities are to implement measures for		Convention ANNEX
worker safety that ensure the following:		Reg 22.1
(1) the availability, maintenance and use of personal protective		
equipment and clothing needed for all Ship Recycling		
operations;		
(2) training programmes are provided to enable workers to		
safely undertake all Ship Recycling operations they are		
tasked to do; and		
(3) all workers at the Ship Recycling Facility have been		
provided with appropriate training and familiarization prior		
to performing any Ship Recycling operation.		
2 Ship Recycling Facilities are to provide and ensure the use		Convention ANNEX Reg 22.2
of personal protective equipment for operations requiring such use;		102 22.2
such equipment is to include the following:		
(1) head protection;		
(2) face and eye protection;		
(3) hand and foot protection;		
(4) respiratory protective equipment;		
(5) hearing protection:		
(6) protectors against radioactive contamination:		
(7) protection from falls; and		
(8) appropriate clothing.		Convention ANNEX
3 Ship Recycling Facilities may co-operate in providing for		Reg 22.3
training of workers. Taking into account IMO Resolution		3

	I acie (Test blocks for steel eastings and othe	
Amended	Original	Remarks
MEPC.210(63) "2012 Guidelines for Safe and Environmentally		
Sound Ship Recycling", the training programmes set forth in -1		
above are to be as follows:		
(1) cover all workers including contractor personnel and		
employees in the Ship Recycling Facility;		
(2) be conducted by competent persons;		
(3) provide for initial and refresher training at appropriate		
intervals;		
(4) include participants' evaluations of their comprehension		
and retention of the training;		
(5) be reviewed periodically and modified as necessary; and		
(6) be documented.		
An3.8 Reporting on Incidents, Accidents, Occupational		
Diseases and Chronic Effects (Regulation 23 of Annex)		
1 Chia Dannellia Facilitia and to the Comment		Convention ANNEX
1 Ship Recycling Facilities are to report to the Competent		Reg 23.1
Authority(ies) and the Society any incident, accident, occupational		8 -
diseases, or chronic effects causing, or with the potential of causing,		
risks to workers safety, human health and the environment.		
2 Reports are to contain a description of the incident, accident,		Convention ANNEX
occupational disease, or chronic effect, its cause, the response action		Reg 23.2
taken and the consequences and corrective actions to be taken.		



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

Amended	Original	Remarks
ANNEX 3 RECOMMENDED FORMAT OF THE		MEPC.210(63) APPENDIX 1
SHIP RECYCLING FACILITY PLAN		
(APPENDIX 1 of MEPC, 210(63))		
The form below gives the recommended format of SRFP.		
SHIP RECYCLING FACILITY PLAN		
1 Facility management		
1.1 Company information		
1.2 Training programme		
1.3 Worker management		
1.4 Records management		
2 Facility operation		
2.1 Facility information		
2.2 Permits, licences and certification		
2.3 Acceptability of ships		
2.4 Ship Recycling Plan (SRP) development		
2.5 Vessel arrival management		
2.6 Ship Recycling methodology2.7 Reporting upon completion		
2.7 Reporting upon completion		
3 Worker safety and health compliance approach		
3.1 Worker health and safety		
3.2 Key safety and health personnel		
3.3 Job hazard assessment		
3.4 Prevention of adverse effects to human health		
3.4.1 Safe-for-entry procedures		

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

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

Amended	Original	Remarks
Facility Map		
Organizational Flow Chart		
Permits, Licences and Certification		
Resumes		

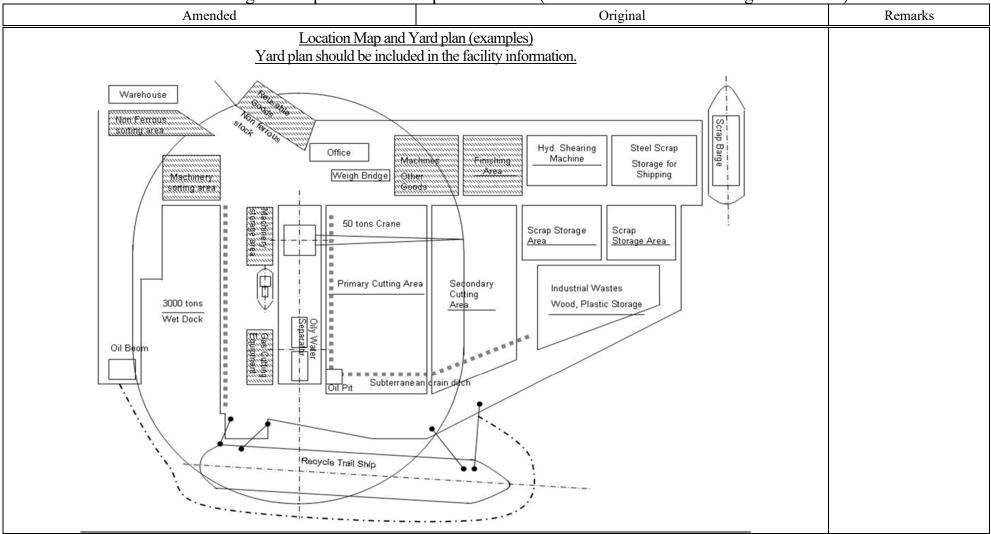
Amended	Original	Remarks
ANNEX 4 EXAMPLE FORMAT OF FACILITY INFORMATION IN SHIP RECYCLING FACILITY PLAN (SRFP) (APPENDIX 2 of MEPC.210(63)) The format below gives the example format of facinformation in SRFP.	ility	MEPC.210(63) APPENDIX 2
	ormation in Ship Recycling Facility Plan	
Facility name and contact information Facility name Registered address Facility address Representative and communication address Number of employees Tel. No. E-mail address URL Working language		
Capacity of Facility Maximum capacity of ship to be recycled Types of ship to be accepted Annual recycling capacity (in LDT)	DWT GT LDT Length Breadth Width Depth	
Waste management capacity Asbestos	removal storage process	

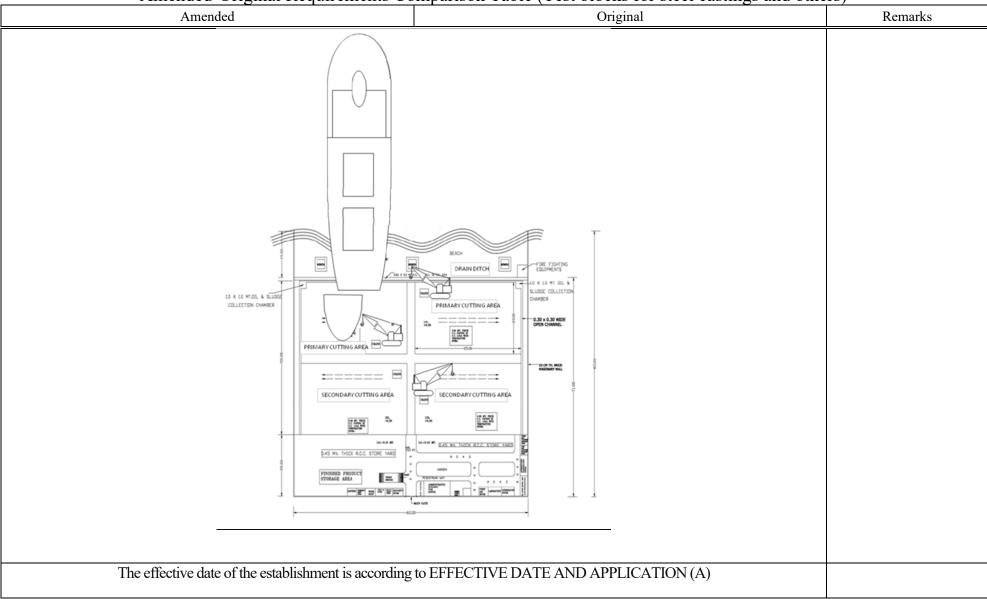
Amended	Original	Remarks
Ozone-depleting substances	<u>removal</u>	
	storage	
	process	
Polychlorinated biphenyls (PCB)	<u>removal</u>	
	storage	
	process	
Anti-fouling compounds and system	<u>removal</u>	
	<u>storage</u>	
	process	
Cadmium and Cadmium Compounds	removal	
	storage	
	process	
Hexavalent Chromium and Hexavalent Chromium Compounds	<u>removal</u>	
	<u>storage</u>	
	process	
Lead and Lead Compounds	removal	
	storage	
	process	
Mercury and Mercury Compounds	removal	
	<u>storage</u>	
	<u>treatment</u>	
	process	
Polybrominated Biphenyl (PBB)	removal	
	<u>storage</u>	
	<u>treatment</u>	
	process	
Polybrominated Diphenyl Ethers (PBDE)	removal	
	<u>storage</u>	
	<u>treatment</u>	
	process	
Polychlorinated Naphthalene's (more than 3chlorine atoms)	<u>removal</u>	
	storage	
	<u>treatment</u>	
	process	
Radioactive substances removal	<u>removal</u>	
	storage	
	treatment	

Amended			Original S	Remarks
		process		
Certain Short-chain Chlorinated Paraffins(Alka	anes, C10-C13, chloro)	removal		
	,	storage		
		treatment		
		process		
Hazardous liquids, residues and sediments		removal		
		storage		
		<u>treatment</u>		
		process		
Paints and coatings that are highly flammable a	and/or lead to toxic release	removal		
		storage		
		<u>treatment</u>		
		process		
Other Hazardous Materials not listed above	and that are not a part of the ship	removal		
structure (specify)		storage		
		<u>treatment</u>		
		process		
Facility equipment and other information				
Area of Facility (m ²)*		Area of pavement (m ²)		
Description of Ship Recycling Facility				
(layout, water depth, accessibility, etc.)				
Heavy lifting machines	e.g. Jib crane: 60 tons			
	Mobile crane: $35 \text{ tons} \times 1,27 \text{ tons}$	$s \times 1$		
	Hydraulic backhoe: SH400, ZX33	30, SK220, ZX200 With Shear, Magnet		
	Hydraulic shear: 600 tons × 1			
	Weight bridge: 50 tons			
<u>Boat</u>	e.g. Gross tonnage: 5 tons, Power:	: 240 PS		
Shear	e.g. Capacity: 600 tons			
O2 supply	e.g. Liquid O2 supply system: 10	<u>m3</u>		
Gas supply	e.g. LPG bottles			
Compressed air				
Fire extinguisher	e.g. Portable fire extinguisher			
Waste oil treatment	e.g. Oil water separation tank			
Waste oil treatment	e.g. Oil water separation tank Tank capacity: about. 20 tons			

Amended		Original	Remark
<u>Incinerator</u>	e.g. None		
Electric power supply	e.g. Substation		
	<u> </u>		
Location			
Division and classification of the location	e.g. Urbanization control area		
Peripheral environment	e.g. Factories: former quarry, two m		
	Housing: private houses at the entrain	nce and 200 m from entrance	
Facility certificate and licence (if applicab	e specify: certifying authority; date of expiry	y; number of certificate; etc.)	
Worker's certificates/licences			
Certificate/licence	<u>Name</u>		
1) Manager of asbestos handling	e.g. **** **** (name of applicab	ole worker)	
2) Manager of PCB handling	<u>e.g.</u> *****		
3) Designated chemicals handling	e.g. N/A		
4) Asbestos handling class	e.g. *****		
	e.g. *****		
	e.g. *****		
5) Gas cutting	e.g. *****		
	e.g. ***** **** e.g. *****		
6) Welding	e.g. *****		
7) Zinc handling	e.g. *****		
8) Lifting	e.g. *****		
<u>Oj Dining</u>	<u>c.g.</u>		
	e.g. *****		
9) Heavy lift machines	e.g. *****		
	e.g. *****		
10) Seafarer	e.g. *****		
11) Diver	e.g. N/A		
	e.g. *****		

(Material A) (Material B) Subcontractor information Subcontractor name Registered address Representative and communication address Field of services Licences for services Number of employees Tel. No. Fax No. E-mail address URL	A	Amended	Original	Remark
Comparison Com	(Material A)			
Subcontractor name Registered address Representative and communication address Field of services Licences for services Number of employes Tel. No. Fax No.		e.g. *****		
Subcontractor name Registered address Representative and communication address Field of services Licences for services Number of employees Tel. No. Fax No.				
Subcontractor name Registered address Representative and communication address Field of services Licences for services Number of employees Fax No. Tel. No. Fax No.				
Registered address Representative and communication address Field of services Licences for services Number of employees Tel. No. Fax No.	Subcontractor information			
Representative and communication address Field of services Licences for services Number of employees Tel. No. Fax No.	Subcontractor name			
Field of services Licences for services Number of employees Tel. No. Fax No.				
Licences for services Number of employees Tel. No. Fax No.		ication address		
Number of employees Fax No. Tel. No. Fax No.				_
Tel. No. Fax No.				
E-mail address URL				
	<u>E-mail address</u>	<u>URL</u>		





Amended-Original Requirements Comparison Table (Test blocks for steel castings and others)				
Amended	Original	Remarks		
REGULATIONS FOR THE CLASSIFICATION	REGULATIONS FOR THE CLASSIFICATION			
AND REGISTRY OF SHIPS	AND REGISTRY OF SHIPS			
Chapter 3 REGISTRATION OF	Chapter 3 REGISTRATION OF			
INSTALLATIONS	INSTALLATIONS			
3.1 Installations Registration	3.1 Installations Registration			
3.1.1 General*	3.1.1 General*			
Installations indicated in (1) to (16) hereunder of the ship to be	Installations indicated in (1) to (15) hereunder of the ship to be			
registered or registered under 2.1 will be assigned characters and	registered or registered under 2.1 will be assigned characters and			
registered in the Installations Register defined in 3.1.4 when the	registered in the Installations Register defined in 3.1.4 when the			
installations have been surveyed for registration by the Surveyors in	installations have been surveyed for registration by the Surveyors in			
accordance with the rules for the survey and construction of	accordance with the rules for the survey and construction of			
installations provided separately (hereinafter referred to as "the	installations provided separately (hereinafter referred to as "the			
Installation Rules") and found by the Society to be in compliance	Installation Rules") and found by the Society to be in compliance			
with the requirements of the Installation Rules. However, the Society	with the requirements of the Installation Rules. However, the Society			
may refuse the registration of installations regardless of the results of	may refuse the registration of installations regardless of the results of			
the survey in accordance with 1.4-3 of the Conditions of Service	the survey in accordance with 1.4-3 of the Conditions of Service			
for Classification of Ships and Registration of Installations.	for Classification of Ships and Registration of Installations.			
(1) Cargo Refrigerating Installations	(1) Cargo Refrigerating Installations			
(1) Cargo Refrigerating histanations (2) Cargo Handling Appliances	(2) Cargo Handling Appliances			
(3) Marine Pollution Prevention Installations	(3) Marine Pollution Prevention Installations			
(4) Safety Equipment	(4) Safety Equipment			
(5) Radio Installations	(5) Radio Installations			
(6) Automatic and Remote Control Systems	(6) Automatic and Remote Control Systems			
(7) Navigation Bridge Systems	(7) Navigation Bridge Systems			
(8) Diving Systems	(8) Diving Systems			
(o) Diving systems	(o) Diving Systems			

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

Amended	Original	Remarks
2 A "*" mark may be added to the Installations Characters if	2 A "*" mark may be added to the Installations Characters if	
the plans of the installations have been approved by the Society in	the plans of the installations have been approved by the Society in	
accordance with the Installation Rules and when the installations	accordance with the Installation Rules and when the installations	
have been surveyed for registration during construction by the	have been surveyed for registration during construction by the	
Surveyors.	Surveyors.	

Amended Amended	Original Original	Remarks
REGULATIONS FOR THE ISSUE OF STATUTORY CERTIFICATES Chapter 2 CERTIFICATES AND THEIR	REGULATIONS FOR THE ISSUE OF STATUTORY CERTIFICATES Chapter 2 CERTIFICATES AND THEIR	
VALIDITY 2.1 Statutory Certificates	VALIDITY 2.1 Statutory Certificates	
2.1.1 Definitions 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.) (26) International Certificate on Inventory of Hazardous Materials and Internatioal Ready for Recycling Certificate	2.1.1 Definitions 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.)	
2.2 Validity of Statutory Certificates	2.2 Validity of Statutory Certificates	
 2.2.1 Validity 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.) (22) International Certificate on Inventory of Hazardous Materials: 5 years (23) Internatioal Ready for Recycling Certificate: 3 months 	2.2.1 Validity 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.)	

Amended-Original Requirements Comparison Table (Test blocks for steel castings and others)				
Amended	Original	Remarks		
Chapter 3 ISSUE OF STATUTORY CERTIFICATES	Chapter 3 ISSUE OF STATUTORY CERTIFICATES			
3.1 Issue of Statutory Certificates	3.1 Issue of Statutory Certificates			
3.1.1 General 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. From-1A, Form-2A or Form-3A) to the Society. However, the issue of the certificates specified in (1) to (5) are as follows:	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. From-1A, Form-2A or Form-3A) to the Society. However, 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).			
(1) The certificates in compliance with the ISM Code: Rules for the Audit and Registration of Safety Management Systems (2) ISSC and Interim ISSC: Rules for the Audit and				
(2) ISSC and Internal ISSC. Rules for the Adult and Registration of Ship Security Management Systems (3) Engine International Air Pollution Prevention Certificate: Rules for Marine Engine Emission Verification				

Amended	Original	Remarks
(4) MLC and Interim MLC: Rules for the Inspection and		
Registration of Maritime Labour Systems		
(5) International Certificate on Inventory of Hazardous		
Materials and Internatioal Ready for Recycling Certificate:		
Rules for the Ship Recycling		

Amended-Original Requirements Comparison Table (Test blocks for steel castings and others)				
Amended	Original	Remarks		
GUIDANCE FOR THE CLASSIFICATION AND	GUIDANCE FOR THE CLASSIFICATION AND			
REGISTRY OF SHIPS	REGISTRY OF SHIPS			
Chapter 2 CLASSIFICATION OF SHIPS	Chapter 2 CLASSIFICATION OF SHIPS			
Chapter 2 Chapter 1101 of Shin S				
2.1 Classification	21 Classification			
2.1 Classification	2.1 Classification			
212 (1 N. 4.4)	212 CL N. 4			
2.1.3 Class Notations	2.1.3 Class Notations			
1 Notations referred to in 2.1.3-1 of the Regulations for the	_			
Classification and Registry of Ships are affixed to Classification				
Characters when the ship is registered and the provisions of specia				
or additional requirements or the relaxation of conditions are applied				
2 "A ship deemed appropriate by the Society" referred to				
in 2.1.3-1(4) of the Regulations for the Classification and	` /			
Registry of Ships means one of the following:	Registry of Ships means one of the following:			
(1) A ship whose main hull part is constructed of materials				
other than steel;	other than steel;			
(2) A ship whose scantlings have been approved by applying				
detailed structural analysis based on methods such as	•			
advanced direct calculation;	advanced direct calculation;			
(3) A ship which has been classified on the condition that a	(3) A ship which has been classified on the condition that a			
special scheme will be applied for the ship's class	special scheme will be applied for the ship's class			
maintenance surveys;	maintenance surveys;			
(4) A ship which has been designed and built with nove	(4) A ship which has been designed and built with novel			
design features not covered by the current Rules, and which	design features not covered by the current Rules, and which			
has been classified applying special requirements;	has been classified applying special requirements;			
(5) A ship which has taken measures of corrosion prevention	(5) A ship which has taken measures of corrosion prevention			
in accordance with specified standards; or	in accordance with specified standards; or			

Amended	Original	Remarks
(6) A ship which has taken measures of noise prevention in	(6) A ship which has taken measures of noise prevention in	
accordance with specified standards.	accordance with specified standards.	
3 The notations referred to in 2.1.3-2 of the Regulations for	3 The notations referred to in 2.1.3-2 of the Regulations for	
the Classification and Registry of Ships are affixed to	the Classification and Registry of Ships are affixed to	
Classification Characters according to the following (1) and (2).	Classification Characters according to the following (1) and (2).	
(1) Based on the applications received from owners, the	(1) Based on the applications received from owners, the	
notations referred to in (a) to (h) are affixed to	notations referred to in (a) to (i) are affixed to Classification	
Classification Characters for the following ships according	Characters for the following ships according to the	
to the Guidelines issued separately by the Society or other	Guidelines issued separately by the Society or other	
guidelines deemed appropriate by the Society.	guidelines deemed appropriate by the Society.	
(a) Ships which have taken particular measures for the	(a) Ships which have taken particular measures for the	
environment in accordance with the minimum	environment in accordance with the minimum	
requirements or additional features specified in the	requirements or additional features specified in the	
Society's "Environmental Guidelines": Environmental	Society's "Environmental Guidelines": Environmental	
Awareness (abbreviated as EA)	Awareness (abbreviated as EA)	
	(b) Ships maintaining an "Inventory of Hazardous	
	Materials for Ship Recycling" in accordance with the	
	Society's "Guidelines for the Inventory of Hazardous	
	Materials": Inventory of Hazardous Materials	
	(abbreviated as IHM)	
(b) Ships adopting measures for the noise and vibration in	(c) Ships adopting measures for the noise and vibration in	
accommodation spaces etc. specified in the Society's	accommodation spaces etc. specified in the Society's	
"Noise and Vibration Guideline": Noise and Vibration	"Noise and Vibration Guideline": Noise and Vibration	
Comfort (abbreviated as NVC)	Comfort (abbreviated as NVC)	
(c) Ships adopting measures for the noise and vibration of	(d) Ships adopting measures for the noise and vibration of	
machinery room installations specified in the Society's	machinery room installations specified in the Society's	
"Noise and Vibration Guideline": Mechanical	"Noise and Vibration Guideline": Mechanical	
Vibration Awareness (abbreviated as MVA)	Vibration Awareness (abbreviated as MVA)	
(d) Ships installed with high voltage shore connection	(e) Ships installed with high voltage shore connection	
systems as a pollution abatement measure in ports in	systems as a pollution abatement measure in ports in	

Amended	Original	Remarks
accordance with the Society's "Guidelines for High	accordance with the Society's "Guidelines for Hig	h
Voltage Shore Connection Systems": High Voltage	Voltage Shore Connection Systems": High Voltage	re
Shore Connection Systems (abbreviated as HVSS)	Shore Connection Systems (abbreviated as HVSS)	
(e) Ships adopting any of the following i) through iv)	(f) Ships adopting any of the following i) through in	7)
innovative measures.	innovative measures.	
i) Ships which are provided with systems utilising	i) Ships which are provided with systems utilising	g
digital technology (smart systems) in accordance	digital technology (smart systems) in accordance	
with the Society's "Guidelines for Digital Smart	with the Society's "Guidelines for Digital Sma	
Ships": Digital Smart Ship (XX) (abbreviated as	Ships": Digital Smart Ship (XX) (abbreviated a	
DSS(XX) in which "XX" refers to the relevant	DSS(XX) in which "XX" refers to the releva	nt
smart system)	smart system)	
ii) Ships which are provided with special	ii) Ships which are provided with speci	
environmental measures in accordance with the	environmental measures in accordance with the	
advanced environmental measures specified in	advanced environmental measures specified	
the Society's "Environmental Guidelines":	the Society's "Environmental Guidelines	
Advanced Environmental Awareness (XX)	Advanced Environmental Awareness (X	·
(abbreviated as a - $EA(XX)$ in which " XX " refers to	(abbreviated as <i>a-EA(XX)</i> in which " <i>XX</i> " refers	0
the relevant environmental measure)	the relevant environmental measure)	
iii) Ships which are provided with special safety	iii) Ships which are provided with special safe	- 1
measures in accordance with the Society's	measures in accordance with the Society	
"Guidelines for Advanced Safety Measures":	"Guidelines for Advanced Safety Measures	
Advanced Safety (XX) (abbreviated as		as
<i>a-SAFE(XX)</i> in which " <i>XX</i> " refers to the relevant	a-SAFE(XX) in which "XX" refers to the relevan	nt
safety measure)	safety measure)	
iv) Ships which are provided with facilities to	iv) Ships which are provided with facilities	
improve the living and working environment on	improve the living and working environment of	
board in accordance with the Society's	board in accordance with the Society	
"Guidelines for Excellent Living and Working	"Guidelines for Excellent Living and Working Environment": Excellent Living and Working	~
Environment': Excellent Living and Working	Environment': Excellent Living and Workin	0
Environment (XX) (abbreviated as ELW(XX) in	Environment (XX) (abbreviated as ELW(XX)	11

	Amended	•	Original	Remarks
	which "XX" refers to the relevant facility)		which "XX" refers to the relevant facility)	
<u>(f)</u>	Ships which have taken particular cyber security	<u>(g)</u>	Ships which have taken particular cyber security	
	measures in accordance with the Society's		measures in accordance with the Society's	
	"Guidelines for Designing Cyber Security Onboard		"Guidelines for Designing Cyber Security Onboard	
	Ships": Cyber Resilience-Guideline (abbreviated as		Ships": Cyber Resilience-Guideline (abbreviated as	
	CybR-G)		CybR-G)	
<u>(g)</u>	Ships whose Energy Efficiency Design Index satisfies	<u>(h)</u>	Ships whose Energy Efficiency Design Index satisfies	
	a required value calculated using a phase reduction		a required value calculated using a phase reduction	
	factor which is stricter than the phase to be applied are		factor which is stricter than the phase to be applied are	
	to be in accordance with 1.1.4-1, Part 1 of the Rules		to be in accordance with 1.1.4-1, Part 1 of the Rules	
	for Marine Pollution Prevention Systems.		for Marine Pollution Prevention Systems.	
<u>(h)</u>	Other ships deemed necessary by the Society to be	<u>(i)</u>	Other ships deemed necessary by the Society to be	
	affixed with special notation.		affixed with special notation.	
(Omitted)		(Omitted)		

Amended	Original	Remarks
Chapter 3 REGISTRATION OF	Chapter 3 REGISTRATION OF	Remarks
INSTALLATIONS	INSTALLATIONS	
3.1 Installations Registration	3.1 Installations Registration	
3.1.1 General	3.1.1 General	
"The rules for the survey and construction of insta	llations "The rules for the survey and construction of installations	
provided separately" referred to in 3.1.1 of the Regulations	·	
Society's technical rules given in Table 1 of this Guidance.	Society's technical rules given in Table 1 of this Guidance.	
Society's technical rules given in Table 1 of this Guidance.	Society's technical fules given in Table 1 of this outdance.	
Table 1 Rules for the	Survey and Construction of Installations	
Name of Installations	Name of Rules	
Cargo Refrigerating Installations	Rules for Cargo Refrigerating Installations	
Cargo Handling Appliances	Rules for Cargo Handling Appliances	
Marine Pollution Prevention Installation	Rules for Marine Pollution Prevention Systems	
Safety Equipment	Rules for Safety Equipment	
Radio Installations	Rules for Radio Installations	
Automatic and Remote Control Systems	Rules for Automatic and Remote Control Systems	
Navigation Bridge Systems	Rules for Navigation Bridge Systems	
Diving Systems	Rules for Diving Systems	
Preventive Machinery Maintenance Systems	Rules for Preventive Machinery Maintenance Systems	
Integrated Fire Control Systems	Rules for Integrated Fire Control Systems	
Hull Monitoring Systems	Rules for Hull Monitoring Systems	
Anti-Fouling Systems on Ships	Rules for Anti-Fouling Systems on Ships	
Centralized Cargo Monitoring and	Rules for Centralized Cargo Monitoring and Control	
Control Systems	Systems	
Ballast Water Management Installations	Rules for Ballast Water Management Installations	
Inventory of Hazardous Materials	Rules for the Ship Recyclng	
The effective date of the amendment is ac	cording to EFFECTIVE DATE AND APPLICATION (B)	

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