



MARITIME

KNOWING WHAT'S INSIDE YOUR SHIP

Inventory of Hazardous Materials for Existing Ships

A host of new requirements

The new European Ship Recycling Regulation (EUSRR) entered into force at the end of 2013, and the Hong Kong International Convention for the Safe and Environmentally Sound Recycling of Ships (HKC) was adopted in May 2009. Both of these regulations place responsibility on shipowners, shipbuilders, suppliers, recycling facilities and national authorities to ensure the safe and environmentally viable management of HazMats as well as the sustainable recycling of ships.

A fundamental requirement of these regulations is the documentation of hazardous materials onboard ships. New and existing ships of 500 GT and above will have to carry

an Inventory of Hazardous Materials (IHM) and the related International Certificate of Inventory of Hazardous Materials (ICIHM) onboard. This means that approximately 55,000 ships will have to obtain the ICIHM within five years, and new ships from the beginning of their operational life.

Smooth IHM preparation with DNV GL

To ensure smooth certification, we offer expert solutions for drawing up your IHM. Our experience allows you to be among the first shipping companies with an effective process for generating correct IHMs. From the very start of your shipbuilding project, we are your qualified partner to handle and meet IHM requirements.

Our smart software solution for new and existing ships supports all aspects of IHM preparation, certification and maintenance: the IHM Green Server (IGS). The IGS enables you to manage the enormous amount of information required. Improved readability and data quality ensure your IHM is efficiently updated and maintained during your ship's operational phase. Our IGS solution:

- Records results of document analysis
- Lists ship-specific material assumptions
- Includes the structuring ship systems
- Defines location, system, etc.
- Prepares Visual/Sampling Check Plan
- Documents sample and analysis results
- Prepares Part I of the IHM
- Provides a smooth certification process
- Gives access to all related data and its management
- Maintains the IHM throughout the ship's life
- Utilises data for ship recycling preparations

What you need to know about IHMs

The IHM consists of three parts:

Part I: Hazardous materials contained in the ship's structure and equipment

Part II: Operationally generated wastes

Part III: Stores

The parts are applicable to different stages in a ship's life cycle as shown in the table below:

Scope of the inventory of hazardous materials	Shipbuilding and operating	Preparation prior to recycling	
	Part I Structure and Equipment	Part II Operative Wastes	Part III Stores
Table A Materials Mandatory for new/existing ships and new installations	✓		
Table B Materials Mandatory for new ships/installations; voluntary for existing ships	✓		
Table C Materials Potentially hazardous items		✓	✓
Table D Materials Regular consumer goods potentially containing hazardous materials	List of exclusions		✓

In the shipbuilding phase, preparation of Part I of the IHM is required, focusing on the hazardous materials contained in the ship's structure and equipment.

Parts II and III of the IHM must be completed under the responsibility of the shipowner when a ship is prepared for recycling.

The IHM for existing ships

The inventory quantifies and locates hazardous materials onboard ships which are known to represent a potential hazard to people and the environment. For assuring safe and environmentally friendly handling of these materials, detailed documentation of those materials in the ship's structure and equipment is essential.

For existing ships, the responsibility of drawing up a ship's IHM lies with the shipowner, who may involve HazMat experts for preparation of the Visual/Sampling Check Plan prior to generating Part I of the IHM. DNV GL offers an experienced professional service, ensuring a pragmatic and effective IHM preparation and certification process.

The process consists of the following basic five steps for unified application and comparable results:

- Step 1: Collection of necessary information, with utilisation of the indicative list
- Step 2: Assessment of collected information
- Step 3: Preparation of Visual/Sampling Check Plan
- Step 4: Onboard Visual/Sampling Check
- Step 5: Preparation of Part I of the IHM and related documentation as well as initial survey and issuance of certificate (Statement of Compliance)

Your benefits

- Be in line with current and upcoming legal regulations
- Prepare for compliance with regional requirements, such as EU Regulations
- Maintain your image as a green company
- Realise a higher resale value
- Avoid the rush after entry into force
- Enjoy a smooth IHM preparation and certification process
- Immediately enhance the work environment onboard ship
- Mitigate risks for health and the environment

RELATED SERVICES

Consulting services

Our Maritime Advisory service offers "Material Declaration Consulting for Shipyards and Suppliers" based on individually tailored concepts for the smart establishment and management of integrated Material Declaration databases.

Ship recycling services

Specifically for shipyards and shipowners, our Maritime Advisory offers performance assessments, gap analysis and project supervision services related to HKC and EUSRR.

Advanced courses

Furthermore, the Maritime Academy offers specific advanced training courses.

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