

MARITIME

# MANAGING THE HAZMAT LIFE CYCLE OF THE SHIP

## IHM Green Server (IGS)

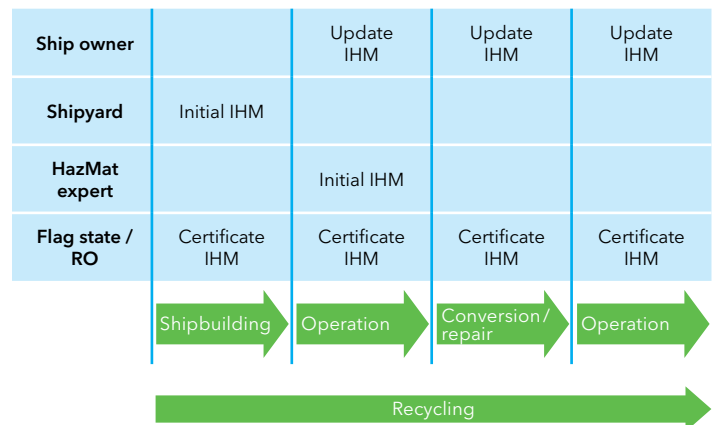
**Added pressure due to new requirements**

The European Union Ship Recycling Regulation (EU SRR) and the Hong Kong International Convention for the Safe and Environmentally Sound Recycling of Ships, 2009 (HKC) prohibit the use of some hazardous materials, such as asbestos and ozone-depleting substances on board vessels. They also require which hazardous materials that are already present in the structure and hull of the vessels be listed in a document called the Inventory of Hazardous Materials (IHM), which needs to be maintained throughout the life cycle of the vessels.

**The software solution you need for sustainable IHM maintenance**

DNV GL offers a smart software solution: the IHM Green Server (IGS) to support all aspects of IHM preparation, certification and maintenance. The IGS enables our customers to manage the enormous amounts of information required to meet future challenges.

**IHM life cycle of a ship**





The IGS is an easy-to-use, Web-based software solution for the preparation and maintenance of your IHM, enabling:

- Ship owners to manage the IHMs of their fleet during the life cycle of the ships,
- Shipyards to prepare IHMs by uploading collected Material Declaration (MD) and Suppliers Declaration of Conformity (SDoC) from their supply chain, and
- HazMat experts to prepare the IHM by creating their inspection in the software.

#### A smart and efficient IT tool

The IGS is a comprehensive solution that enables you to achieve hazardous material management in a smooth way.

Ship owners and HazMat experts who are working with IGS can enjoy benefits such as using a standard VSCP developed by DNV GL in an Excel format. Instead of starting from scratch, IGS users can download the standard VSCP and modify it according to their projects. With one click, the standard VSCP can be uploaded to IGS - thus, the IHM can be generated with a single click. In the new user interface, IGS users can easily upload pictures of the sampling points and even the location diagrams, so that the hazardous materials location plan can be generated in IGS detailed checkpoint reports. We offer a smart approach for HazMat Inspection Reports as well. By using our report template placed in IGS, owners can prepare their HazMat Inspection Reports in minutes.

Shipyards have additional benefits as well. While uploading MDs into the software, a plausibility check is conducted to make sure they have been prepared properly. For shipyards with bigger organizations, it is possible to select the department name at the time of uploading documents, so that each department would see the documents they are responsible for. After uploading all the relevant documents, MDs and SDoCs, the mass of the present hazardous materials is calculated by the IGS and put in the standard IHM format.

Last but not least, the IGS is a valuable tool for ship owners and ship managers to keep their IHMs up to date. Thanks to IHM maintenance functions, IGS users are able to store the MD of

their purchased products and place it in the ship's directory easily. Maintenance can be done based on the ship location, and the IHM is assured to be up to date.

#### Your benefits

- Full fleet overview for HazMat management
- Less administrative work for preparation and maintaining of the IHM
- Easy way of identifying the hazardous materials on board
- Complete transparency for processes such as procurement and maintenance
- Automatic generation of updated IHM
- Automatic correction check
- Integrated and real-time work platform for ship owners, shipyards, HazMat experts, suppliers and ROs
- Use of standardized forms, templates and reports
- Compliance support for SOLAS, MARPOL, ISM and PSC requirements
- Global flexibility for gaining access (Web-based solution)

#### RELATED SERVICES

##### IHM certification

We offer certification of inventories for hazardous materials for new and existing ships.

##### 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 ship owners, our Maritime Advisory offers performance assessments, gap analysis and project supervision services related to HKC and EU SRR.

##### Advanced courses

Furthermore, the Maritime Academy offers specific advanced training courses.

##### HazMat expert training

We offer qualification for hazardous material experts according to HKC and EU SRR for IHM preparation.