Inventory of Hazardous Materials (IHM)

For Existing Vessels
What Is IHM?

A detailed document outlaying all potentially hazardous material onboard a vessel

- Hazardous material is any substance that can pose a risk to the health and safety of people or to the environment as identified and listed by the Hong Kong Convention (2009) & EU Regulation 1257/2013

- Inventory of Hazardous Material (IHM) is a document in which all potentially hazardous materials onboard a vessel are identified, located and quantified and follows IMO Resolution MEPC.269(68) guidelines.
IHM Regulations

Hong Kong Convention 2009 & EU Regulation 1257 / 2013

**IHM (Hong Kong Convention 2009)**

- Adopted at Diplomatic Conference in HK May 2009
- Aimed at regulating ship recycling
- Main items to be listed (asbestos, PCBs, ODS, TBT) from Table A, and others materials from Table B (heavy metals & radioactive substances)
- Ratified by the following nations: Norway, Congo, France, Panama, Turkey, Belgium, Denmark, Netherlands, Serbia, Japan, Malta, Estonia, Germany (13)
- Demands IHM for all vessels within 5 years of ratification and immediate for all vessels going for recycling
- States that vessel recycling should: “not pose any unnecessary risk to human health and safety or to the environment”

**EU Regulation 1257/2013**

- Signed and approved by EU parliament and in force from Dec 2013.
- EU-flagged vessels of 500GT and over will be required to carry an IHM
- Additional 2 new hazardous materials to be sampled (PFOS and HBCDD) Perfluorooctane sulfonic acid / Brominated Flame Retardant - apart from items in Table A and Table B.
- In line with HKC requirements with specifics for the EU region and EU-flagged vessels. Will be implemented without waiting for HKC ratification
- Aimed to facilitate early ratification of the Hong Kong Convention 2009 (within EU and outside EU countries)
- When calling EU ports, vessels from non-EU countries will also be required to carry IHM onboard
HKC / EU Regulation Timeline

May 2009
Hong Kong convention adopted

2009

30 Dec 2013
EU Ship Recycling Regulation E.I.F.

2013

2015
All EU vessels must have IHM

2015

End of 2016
All EU vessels going for recycling must have IHM

2016

End of 2018
Predicted Hong Kong Convention ratification

2018

2015-2018
EU / Non-EU vessels are subjected to PSC (Article 11 & 12)

2020

31 Dec 2020
All EU and non-EU vessels calling EU ports must have IHM.
Initial control of non-EU vessels limited to Class SOC

2023

2023
Assumed entry into forced date for Hong Kong Convention

2020

2015-2018
# IHM Process Flow

## TIMELINE

<table>
<thead>
<tr>
<th>PROCESS</th>
<th>DNVGL / LR / ABS / BV / CLASS KR</th>
<th>CLASS NK</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Preparation</strong></td>
<td>7 days prior to Inspection – collation of all vessel documentation</td>
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</tr>
<tr>
<td><strong>VSCP</strong></td>
<td>Visual Sampling Check Plan 7 Days (LR 10-12 days) Average of 65-80 samples (dependent on HMDB + Vessel information)</td>
<td>Visual Sampling Check Plan 30 days Average of 30-40 Samples NKCS (Check) / NK (Review)</td>
</tr>
<tr>
<td><strong>On Board Survey</strong></td>
<td>2 Days</td>
<td>2 days NK Attend &amp; Supervise</td>
</tr>
<tr>
<td><strong>Lab Analysis</strong></td>
<td>5-7 Days</td>
<td>5-7 Days</td>
</tr>
<tr>
<td><strong>IHM Final Report</strong></td>
<td>18 – 21 Days – Post onboard Survey</td>
<td>30 Days – Post Onboard Survey</td>
</tr>
<tr>
<td><strong>Verification by Class</strong></td>
<td>&lt; 35 days</td>
<td>2 Months NKCS to submit to NK for issuance of SoC</td>
</tr>
</tbody>
</table>
Why Choose WSM?
WHAT WE DO

• Wilhelmsen Ship Management (WSM) can offer IHM for all vessels anywhere in the world

• We have worked with all the large classification societies and vessels varying from traditional bulkers and tankers to more advanced specialized ships and offshore installations

WHAT MAKES WSM DIFFERENT

• WSM has a strong IHM team with many certified experts, allowing us to handle IHM in an efficient, flexible and economical manner

• We offer a fixed competitive price for our services and should you decide for a Statement of Compliance from your classification society, we will facilitate and offer free liaison with class until completion
Class Approved Service Provider
We work with all the major classification societies and will offer free liaison until SoC completion
Completed IHM Project History
Completed IHM inspections

WSM has completed a total of 293 IHM survey inspections worldwide

More than 293 IHM completed and counting

*as of September 2019
Graphical overview by Classification Society

*as of January 2019
Global Challenges

- Approximately 38,000 vessels still require IHM / SOC
- Insufficient IHM experts to cater for demand
- Bottleneck for IHM Development
- Increased global demand driven by deadline
- Deadline for EU SRR compliance: 31/12/2020