



# ClassNK Ship Recycling Seminar Additional Requirements of EU SRR

For your competitive sustainability

## HKC & EU: New legislation

*red texts = EU-specific* 

IMO: "Hong Kong International Convention for the Safe and **Environmentally Sound Recycling of Ships**"

EU: "Regulation of the European Parliament and of the Council on ship recycling ..."

#### Applicable to:

- all merchant ships\* > 500GT
- all EU-flagged and non EU-flagged ships\* calling at an EU port > 500GT
- All ship recycling facilities (SRF) involved in recycling of above ships

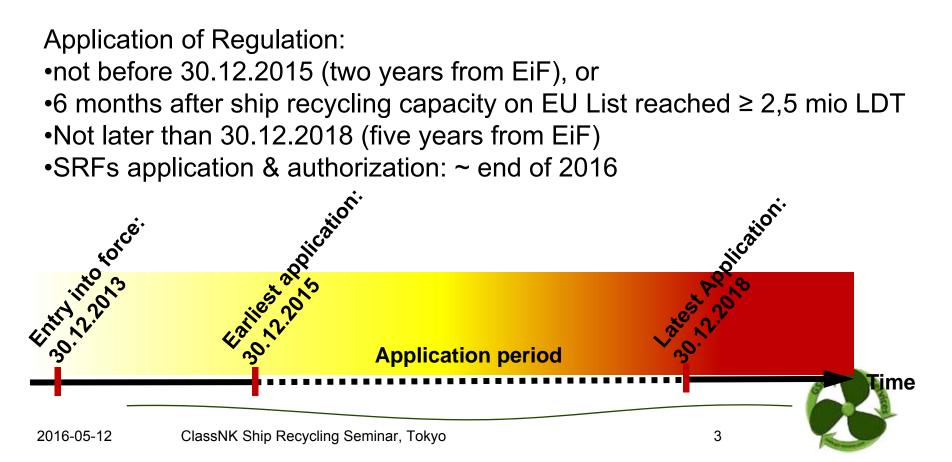




"ship" means a vessel of any type whatsoever operating or having operated in the marine environment, and includes submersibles, floating craft, floating platforms, self-elevating platforms, Floating Storage Units (FSUs), and Floating Production Storage and Offloading Units (FPSOs), as well as a vessel stripped of equipment or being towed

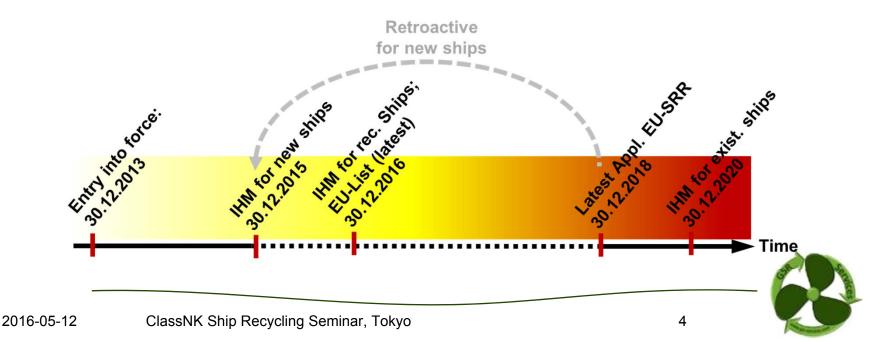
### **EU Ship Recycling Regulation**

- Hong Kong Convention: Entry into force in many years
- EU Ship Recycling Regulation: Entry into force: Dec. 30th 2013



## **EU Ship Recycling Regulation**

- Application of IHMs
- New ships: IHM from 30.12.2015
- All exst. ships: IHM until 30.12.2020 (incl. all visiting ships) within 6 months of change to EU flag
- Ships for recycling: IHM required when EU-List is available

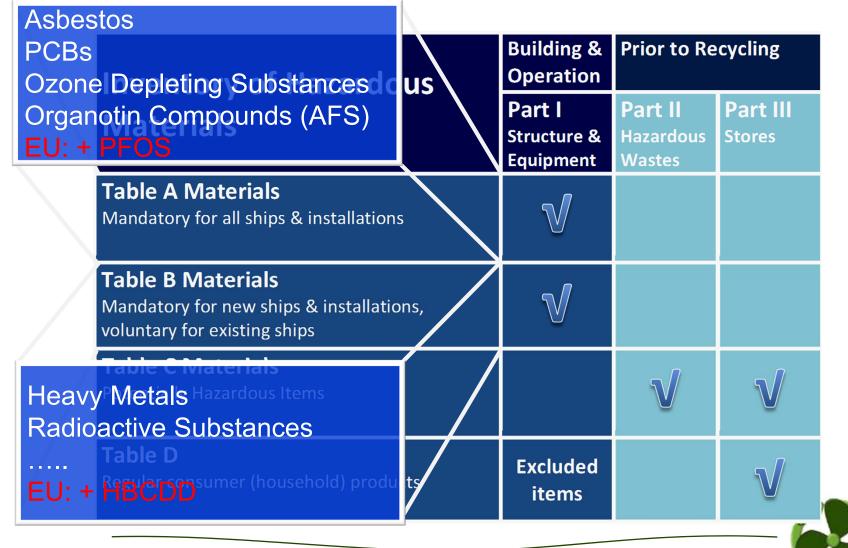


## HKC & **EU**

- HKC-Guidelines
  - 2011 Guidelines for Development of Ship Recycling Plan (Res. MEPC.196(62))
  - 2015 Guidelines for the Development of IHM (Res. MEPC.269(68))
  - 2012 Guidelines for Safe and environmentally Sound Ship Recycling (Res. MEPC.210(63))
- EU-Guidelines
  - References to IMO Guidelines
    - Own IHM Guideline under development by EMSA
  - Financial scheme for EU-flagged recycling ships under discussion
  - Independ Verifier Scheme for authorization of SRFs



## **Preparation of IHM for Ships**



#### **HKC & EU: MD-preparation** MD Table A: (for all ships)

Table	Material Name		Threshold level	Present above threshold level Yes or No	IF YES Material Mass Amount Unit		IF YES Information on where it is used
	Asbestos	Asbestos	0.1 %*				
Table A	PCB's	Polychlorinated Biphenyls (PCBs)	50 mg/kg**				
		Chlorofluorcarbons (CFC's)	No threshold level				
Materials		Halons					
listed in		Other fully Halogenated CFC's					
appendix 1		Carbon Tetrachloride					
of the	Ozone depleting substances	1,1,1-Trichloroethane					
Convention		Hydrochlorofluorcarbons					
		Hydrobromofluorcarbons					
		Methyl Bromide					
		Bromochloromethane					
	Anti-fouling systems containing organotin compounds as a biocide		2,500 mg total tin/kg				
EU***	Perfluorooctane sulfonic acid (PFOS)		No threshold level				

\* currently no asbestos is tolerable under SOLAS Reg. II-1/3-5 and Para. 13 of MSC.1/Circ.1374., this requirement is subject to future changes, if the timely limited threshold of 1% is applied this has to be mentioned clearly in the remarks section

\*\* 50ppm is to be used as threshold for reporting existing PCB only. NOTE: All new materials are to be free of any PCBs!

\*\*\* Additional material to be listed acc. to Annex 1 and Annex 2 of the 2013 EU Ship Recycling Regulation.



## HKC & EU: MD-preparation

Table B: HazMats for new ships and new installations, as far as practicable for existing ships

Table	Material Name	Threshold level	Present above threshold level	IF YES Material Mass		IF YES Information	
			Yes or No	Amount	Unit	on where it is used	
	Cadmium & Cadmium Compounds	100 mg/kg					
Table B	Hexavalent Chromium and Hexavalent Chromium Compounds	1,000 mg/kg					
	Lead and Lead Compounds	1,000 mg/kg					
Materials	Mercury and Mercury Compounds	1,000 mg/kg					
listed in	Polybromated Biphenyl (PBB's)	50 mg/kg					
appendix 2	Polybrominated Dephenyl Ethers (PBDE's)	1,000 mg/kg					
of the	Polychloronaphtalenes (Cl>=3)	50 mg/kg					
Convention	Radioactive substances	No thr.level					
	Certain Shortchain Chlorinated Paraffins	1%					
EU***	Brominated flame retardants (HBCDD)	No threshold level					

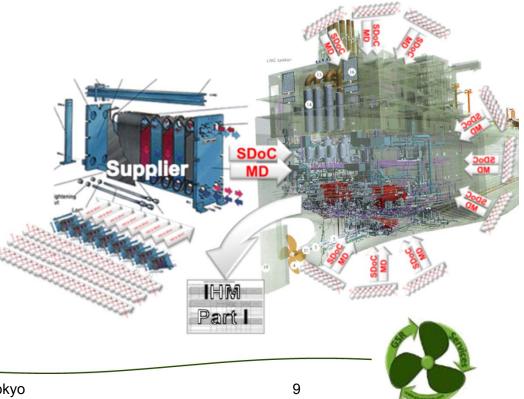


## HKC & EU: IHMs for New Ships

#### Shipyard responsible

•Preparation based on information from suppliers of equipment and materials for ships ´ structure:

- Suppliers Declaration of Conformity (SDoC)
- Material Declaration (MD)
- + PFOS + HBCDD



## HKC & EU: IHMs for Existing Ships

#### **Owner is responsible**

- IHM preparation by IHM Expert
- Example for timing of IHM preparation for a cargo vessel:

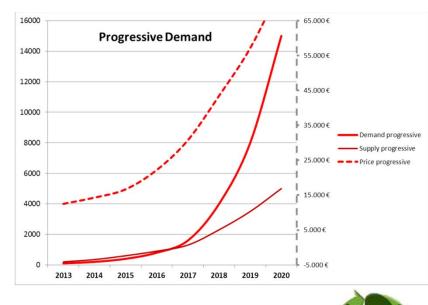
Activity	Duration
Review of documents and plans	4 hrs
Preparation of Visual Sampling and Check Plan (VSCP)	8 hrs
Approval of VSCP by class	Depending on class
Sampling and Inspection <u>onboard</u>	~ 8 hrs
Laboratory Analyses	~ 1.5 weeks
Finalization of IHM and Report	2 days
Certification of IHM by class	ClassNK



#### **EU: IHM deadlines**

- HKC affects ~ 48.000 ships (unknown deadline)
- EU affects ~ 30.000 ships (until Dec. 31st, 2020)

≈ 27 ships need an IHM incl. certificate every day from today onwards to meet the EU deadline



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## HKC & **EU**

### Authorization of Ship Recycling Facilities

- Occupational Health & Safety
- Environmental protection & monitoring
- Trainings
- Provision of PPE
- Pre-demolition activities
- Emergency preparedness & response





## HKC & **EU**

**Requirements ...for inclusion of facilities located in third countries ...Technical guidance note (2016/C 128/01)** 

- Recycling of ships only @ authorized SRF / "EU-List"
- Handling of HazMats & wastes on impermeable floors with effective drainage (all materials from a ship are waste or HazMat)
- Operation from built structures
- Control of leakage esp. in intertidal zones
- Disposal of wastes and hinterland waste management (broadly equivalent to relevant ... Union standards)
- Application scheme for non-EU SRFs





# Application Scheme of EU-SRR

#### for SRFs located in a third country (Art. 15)

Article	Phase	Activity	Responsibility
	Preparation	<ol> <li>Preparation for compliance</li> <li>Contracting IV</li> </ol>	SRF
15(4) § 1	Verification	<ol> <li>Review of SRFP</li> <li>On-site inspection</li> <li>Certification of SRF</li> </ol>	Independent Verifier (IV)
	Application	<ol> <li>Filling in</li> <li>Submission of application form to Commission</li> </ol>	SRF
15(4) § 2	Certification / Publication	<ol> <li>On-site inspection (optional)</li> <li>Decision on inclusion of SRF in EU- List</li> </ol>	EU

 $1^{st}$  round for application ends on July  $1^{st}$  2016

## Conclusions

- IHMs
  - 2 IHM standards:
    - EU-ships (=HKC & EU SRR)
    - non-EU ships (=HKC)
  - Deadline fixed for huge number of ships
    - Too few prepared so far, lack of IHM Professionals
  - IHM = technical file & pre-requisite for green ship recycling

#### SRFs

- No experiences with Technical Guideline of EU (FAQs)
- Many interpretations
- Impact of EU-SRR for end of life ships negligible
  - Financial support only for EU-flagged ships in EU-authorized SRFs





# We look forward to working with you!

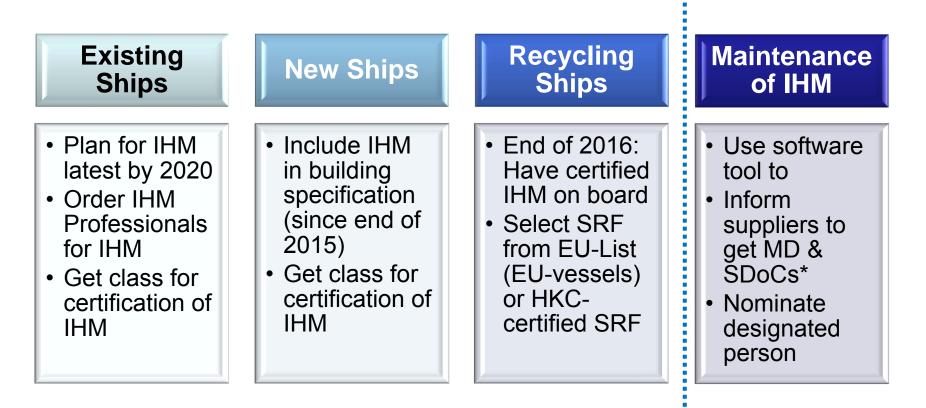
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### Advise for shipowners



\* Requires intensive communication with supply chain and may take long time to implement!



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  - Providing support for effective compliance for all stakeholders and for entire life cycle of ships, from cradle to grave
  - Member of IHMA\*





<sup>\*</sup> www.ihm-association.org