

Certification of Ship Recycling Facilities by ClassNK

12 May 2016

**Ship Recycling Team
ClassNK**



The Hong Kong Convention* (HKC) was adopted on 15 May 2009.

* The Hong Kong International Convention for the Safe and Environmentally Sound Recycling of Ships, 2009

IHM for Ships



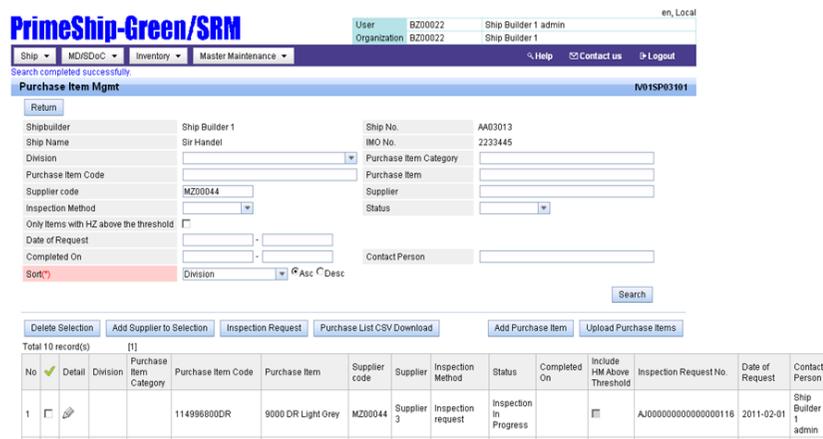
SRP for
Ship Recycling



SRFP for
Ship Recycling
Facilities



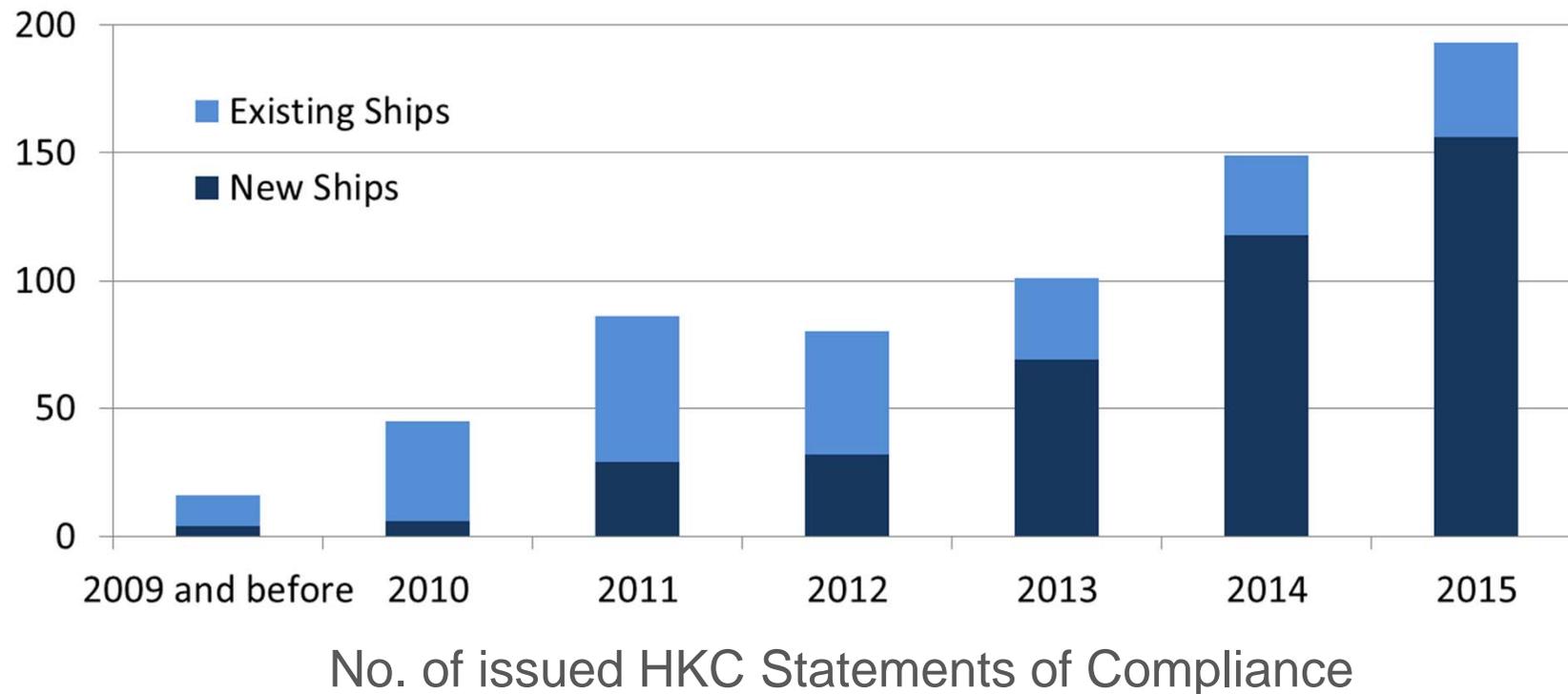
- ✓ ClassNK provides “**PrimeShip-GREEN/SRM**”, software to facilitate IHM development utilizing a cloud computing system in cooperation with IBM. About 2,500 users are registered as of December 2015.
- ✓ ClassNK Consulting Service Co., Ltd. (NKCS) is providing **expert services** to develop IHMs for existing ships.



<https://www.psgreensrm.com/>



- ✓ ClassNK issues **Statements of Compliance** for IHMs.
- ✓ Once the Convention enters into force, the Statements shall be reissued as conventional certificates.
- ✓ **Class notation “IHM”** is also provided.



Solutions for Ship Recycling Facilities



- ✓ NKCS provides services so that ship recycling facilities (SRFs) can implement the requirements of the Convention, including the development of SRFPs.

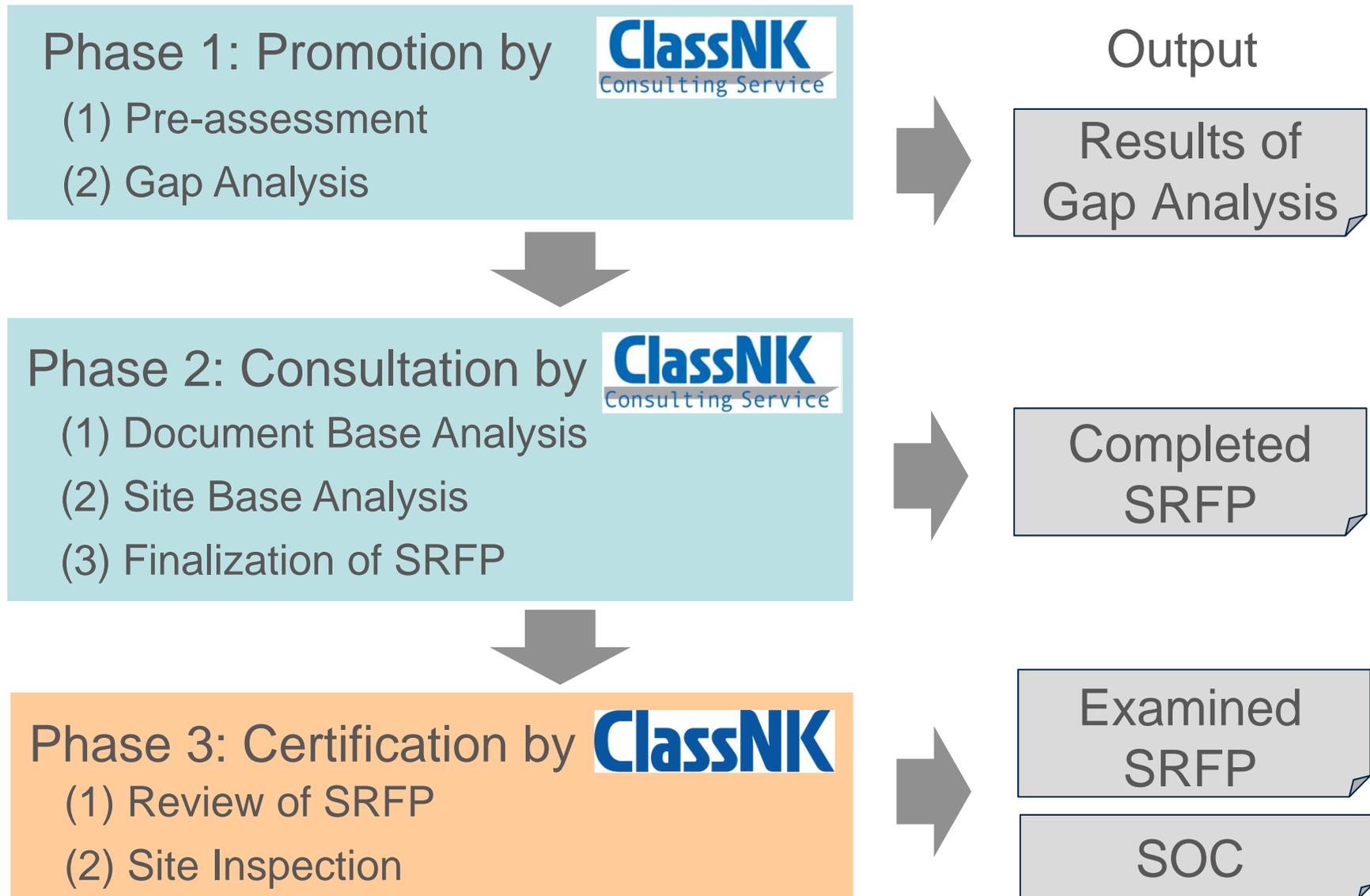
- ✓ ClassNK has issued HKC Statements of Compliance (SOC) to **9 SRFs** in the world;

Japan: 1

China: 4

India: 4

Basic process of consultation and certification **ClassNK**



As per the **ClassNK Check List** based on the requirements of the IMO Guidelines, document examinations and site inspections are carried out.



2012 Guidelines for Safe and Environmentally Sound Ship Recycling (Res. MEPC.210(63))

- ✓ Facility management
- ✓ Facility operation
- ✓ Worker safety and health compliance approach
Safe for entry, Safe for hot work, etc.
- ✓ Environmental compliance approach
Management of Hazardous Materials, etc.

Worker safety and health compliance approach **ClassNK**

- ✓ Worker health and safety
- ✓ Key safety and health personnel
- ✓ Job hazard assessment
- ✓ Prevention of adverse effects to human health
 - Safe-for-entry and safe-for-hot-work procedures
 - Drums, containers and pressure vessels
 - Prevention of falling from heights
 - Gear and equipment for rigging and materials handling
 - Personal protective equipment, etc.
- ✓ Emergency preparedness and response plan
- ✓ Fire and explosion prevention, detection and response



First aid training at Red Cross



Drill for Firefighting



Gas detector



Sticker for Gas Free for Hot Work



Taking care of LPG and O2 cylinders



Guard rail for fall prevention from height

Environmental Compliance Approach

- ✓ Environmental monitoring
- ✓ Management of Hazardous Materials (HM)
- ✓ Environmentally sound management of HM
 - Asbestos
 - PCBs
 - Ozone-depleting substances (ODS)
 - Paint and coatings
 - Hazardous liquids, residues and sediments
 - Heavy metals
- ✓ Prevention of adverse effects to the environment
 - Spill prevention, control and countermeasures
 - Storm-water pollution prevention
 - Debris prevention and control
 - Incident and spills reporting procedures

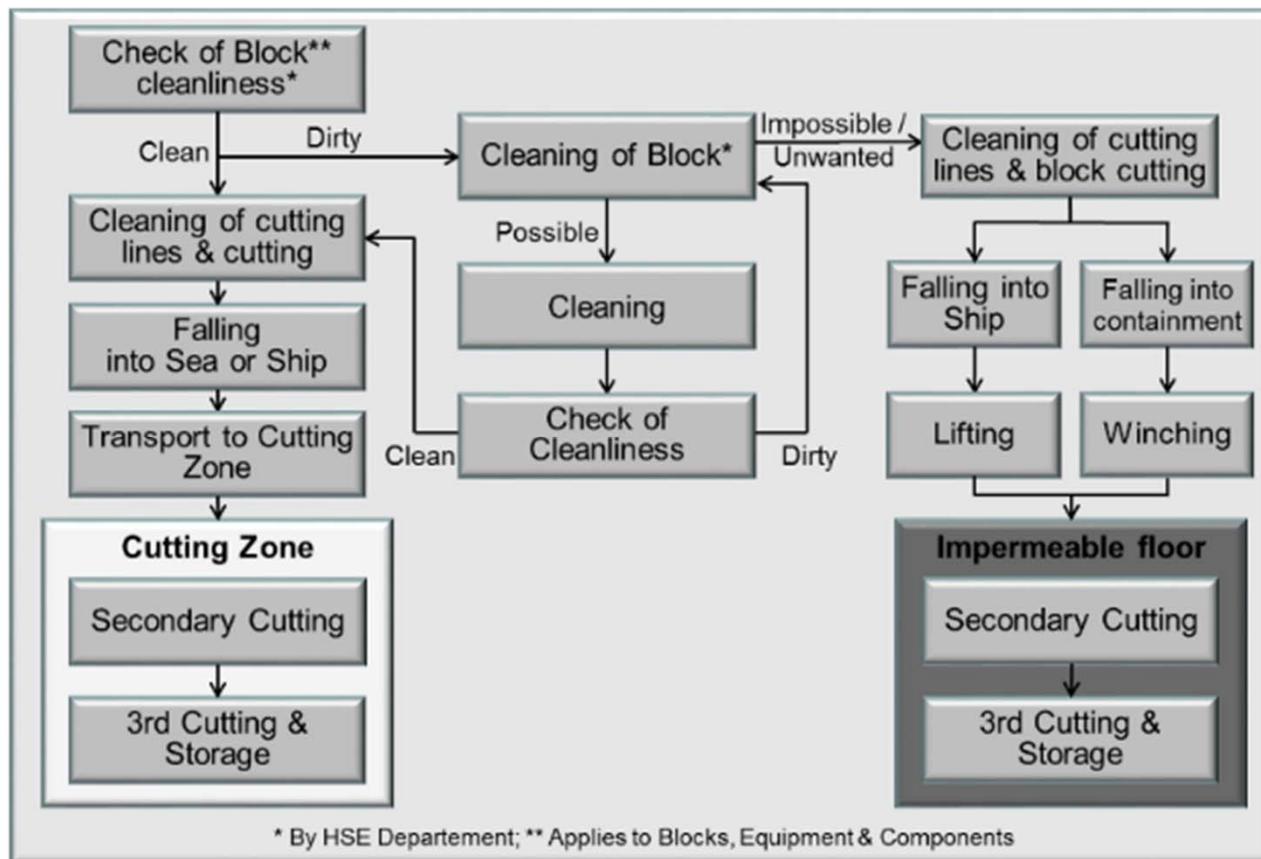


Packing of asbestos-containing material (ACM) in special bag

Hazardous Waste Manifest

Establishment of the system for dirty blocks and machinery

- ✓ Not to be placed at intertidal zone without cleaning
- ✓ To be transported to block cutting area with proper spill prevention, and in short order



Impermeable floor and drainage system



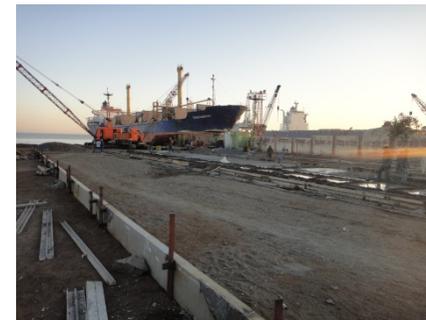
First Group: Completed in December 2015

1. RL Kalthia Ship Breaking
2. Priya Blue Industries
3. Shree Ram Vessel Scrap
4. Leela Ship Recycling



Second Group: Started from August 2015 (ongoing)

5. Y. S. Investments
6. J.R.D. Industries



Third Group: Just started !

7. Shree Ram Steel & Rolling Industries
8. R. K. Industries
9. NBM Iron & Steel Trading
10. Baijnath Melaram
11. Jawandamal Dhannamal
12. Diamond Industries



ClassNK have been providing solutions for the smooth implementation of HKC, and will make further effort.

THANK YOU

for your kind attention

