

Trial developments and surveys of Inventory of Hazardous Materials

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

June 2010

NIPPON KAIJI KYOKAI

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- ➡ 2. Trials of New Ships
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1. What is “IHM”?

Inventory of Hazardous Materials Identification No. 1


PART 1 OF THE INVENTORY OF HAZARDOUS MATERIALS
ATTACHMENT TO THE INTERNATIONAL CERTIFICATE ON INVENTORY OF HAZARDOUS MATERIALS

Name of Ship		CLASSNK FUTURE
Distinctive number or letters		NK007
IMO number		9999999
Port of Registry		TOKYO
Gross Tonnage		99999
Shipowner	Name	NIPPON KAIJI KYOKAI
	Address	4-7 Kio-cho, Chiyoda-ku, Tokyo, JAPAN
IMO registered owner identification number		XXXXXXXX
IMO company identification number		XXXXXXXX
Date of Construction		25-Aug-09

Completion date of survey on which this document is based: 25-Aug-09

Issued at: Tokyo, JAPAN

Date of Issue: 25-Aug-09



(signature of duly authorized official issuing the certificate)
(Seal or stamp of the authority, as appropriate)

Achieve "Safe and Environmentally Sound Recycling of Ships"



Measures to achieve

- ✓ **Ship** ⇒ Develop & maintain a list indicating details of Hazardous Materials on board the ship
Inventory of Hazardous Materials (IHM)
- ✓ **Recycling Facility** ⇒ Ensure environmental protection, provide enough facilities, and ensure labor safety and health
- ✓ **Preparation of Recycling** ⇒ Ensure delivering IHM, thorough 'gas-freeing', development of recycling plan, etc.

Role of IHM in the Convention

- IHM indicates Quantity & Location of actual Hazardous Materials on board the ship, Wastes, and Stores

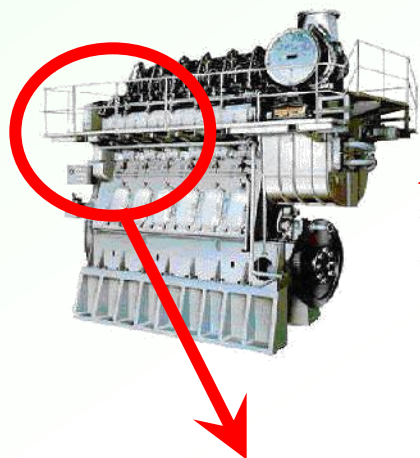
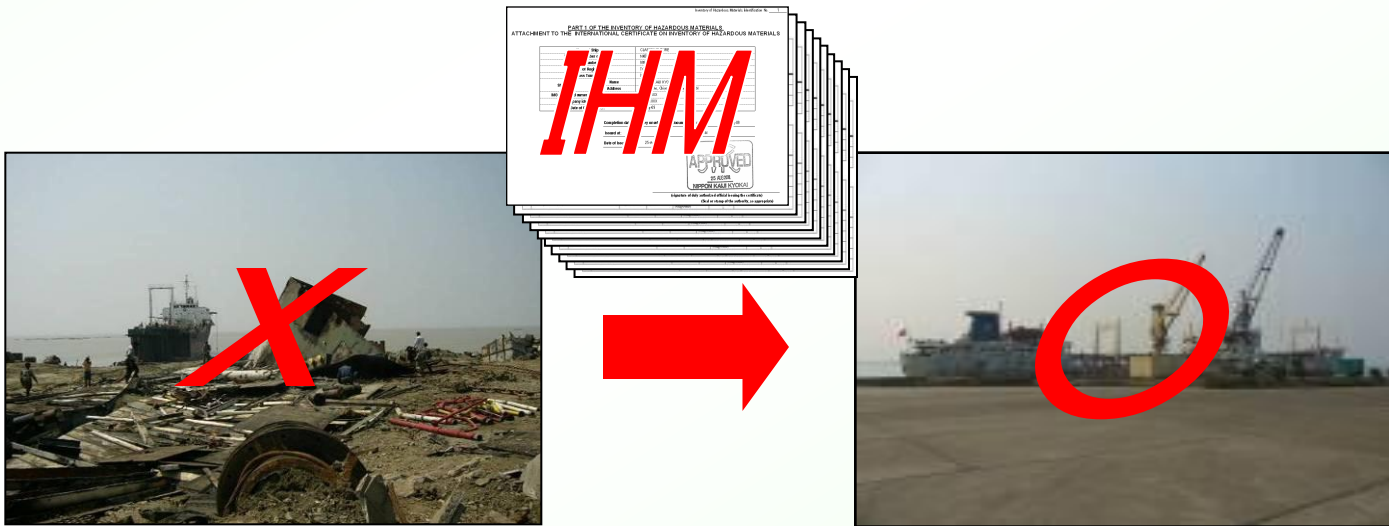







Table B Materials Listed in Appendix 2 of the	Mercury and Mercury Compounds	1,000 mg/kg	Yes	10	g
	Polybrominated Biphenyl (PBBs)	1,000 mg/kg	No		

Aim of the IHM

- To provide information on Hazardous Materials on board the ship to:
- ✓ **Protect safety and health of workers**
- ✓ **Prevent environmental pollution**



■ The Inventory consists of 3 parts:

	Contents	Developed at
Part 1 	Ship structure and equipments 	Delivery of the ship (to be maintained during her operation)
Part 2 	Operationally generated wastes	Just before the Recycling
Part 3 	Stores 	Just before the Recycling

■ Following materials are to be listed in the IHM

Table A	Prohibited/Limited Materials (4) Asbestos, PCBs, Ozone-depleting substances (e.g. Halon), Organotin compounds (e.g. TBT)	Part 1
Table B	Harmful Materials (9) Cadmium (compounds), Hexavalent Chromium (compounds), Lead (compounds), Mercury (compounds), PBBs, PBDEs, Polychlorinated naphthalenes (more than 3 chlorine atoms), Radioactive Substances, Certain Shortchain Chlorinated Paraffins (Alkanes, C10-C13 chloro)	Part 1
Table C	Potentially Hazardous Items Kerosene, Light oil, Lubricant, Antifreeze, Battery electrolyte, Paint, Acetylene, etc.	Parts 2 & 3
Table D	Regular consumable goods potentially containing Hazardous Materials Computers, refrigerators, printers, scanners, television sets, radio sets, video cameras, video recorders, telephones, consumer batteries, etc.	Part 3

(Standard Format of the Guideline for the Convention)

Part 1

Part I HAZARDOUS MATERIALS CONTAINED IN THE SHIP'S STRUCTURE AND EQUIPMENT

I-1 Paints and coating systems containing materials listed in Table A and Table B of appendix 1 of the guidelines

No.	Application of paint	Name of paint	Location	Materials (classification in appendix 1)	Approx. quantity	Remarks
1	Anti-drumming compound	Primer, xx Co., xx primer #300	Hull part	Lead	35.00 kg	
2	Anti-fouling	xx Co., xx coat #100	Underwater parts	TBT	120.00 kg	

I-2 Equipment and machinery containing materials listed in Table A and Table B of appendix 1 of the guidelines

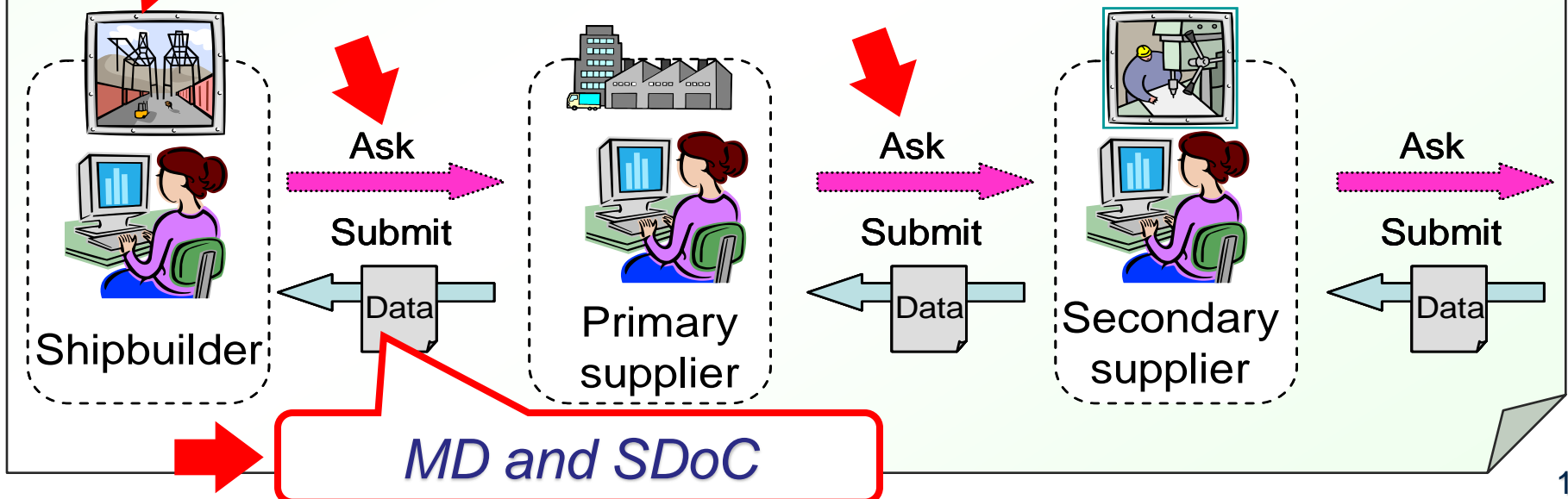
No.	Name of equipment and machinery	Location	Materials (classification in appendix 1)	Parts where used	Approx. quantity	Remarks
1	Switch board	Engine control room	Cadmium	Housing coating	0.02 kg	
			Mercury	Heat gauge	<0.01 kg	less than 0.01kg
2	Diesel engine, xx Co., xx #150	Engine room	Cadmium	Bearing	0.02 kg	
3	Diesel engine, xx Co., xx #200	Engine room	Cadmium	Bearing	0.01 kg	Revised by XXX on Oct. XX, 2008
4	Diesel generator (x 3)	Engine room	Lead	Ingredient of copper compounds	0.01 kg	



2. Trials of New Ships

- Shipbuilder is requested to develop the IHM-Part 1* for New Ships at the time of delivery.

Inventory of Hazardous Materials (IHM)



1. Arrange Seminar to shipbuilders, makers, etc.

2. Visit shipbuilders and makers to explain how to develop IHM.

3. Steps for developing IHM Part I

<Step1> Collect MD and SDoC which made by MD-Tool and sent by e-mail

**<Step2> Upload MD and SDoC tpo PrimeShip-INVENTORY.
PrimeShip-INVENTORY automatically develops IHM.**

<Step3> On-board Checking

ClassNK's Survey

<Step4> Finailize IHM Part I

ClassNK's Approval

1. Seminar on the Convention & developing IHM



1. Arrange Seminar to shipbuilders, makers, etc.

2. Visit shipbuilders and makers to explain how to develop IHM.

3. Steps for developing IHM Part I

<Step1> Collect MD and SDoC which made by MD-Tool and sent by e-mail

<Step2> Upload MD and SDoC tpo PrimeShip-INVENTORY.
PrimeShip-INVENTORY automatically develops IHM.

<Step3> On-board Checking **ClassNK's Survey**

<Step4> Finailize IHM Part I **ClassNK's Approval**

2. Visit Shipbuilders to explain how to develop IHM



1. Arrange Seminar to shipbuilders, makers, etc.

2. Visit shipbuilders and makers to explain how to develop IHM.

3. Steps for developing IHM Part I

<Step1> Collect MD and SDoC which made by MD-Tool and sent by e-mail

<Step2> Upload MD and SDoC tpo PrimeShip-INVENTORY.
PrimeShip-INVENTORY automatically develops IHM.

<Step3> On-board Checking **ClassNK's Survey**

<Step4> Finailize IHM Part I **ClassNK's Approval**

3 -Step1. Collect MD and SDoC

Shipbuilders

*Only with Ship -
Recycling
Convention and
its Guideline*

**Confusing
!**

1. Arrange Seminar to shipbuilders, makers, etc.

2. Visit shipbuilders and makers to explain how to develop IHM.

3. Steps for developing IHM Part I

<Step1> Collect MD and SDoC which made by MD-Tool and sent by e-mail

<Step2> Upload MD and SDoC tpo PrimeShip-INVENTORY.
PrimeShip-INVENTORY automatically develops IHM.

<Step3> On-board Checking **ClassNK's Survey**

<Step4> Finailize IHM Part I **ClassNK's Approval**

Maker

Visit to consult Confusing situation

Shipbuilders

*Explaining
&
Explaining*

Makers

**Again
&
Again**

1. Arrange Seminar to shipbuilders, makers, etc.

2. Visit shipbuilders and makers to explain how to develop IHM.

3. Steps for developing IHM Part I

<Step1> Collect MD and SDoC which made by MD-Tool and sent by e-mail

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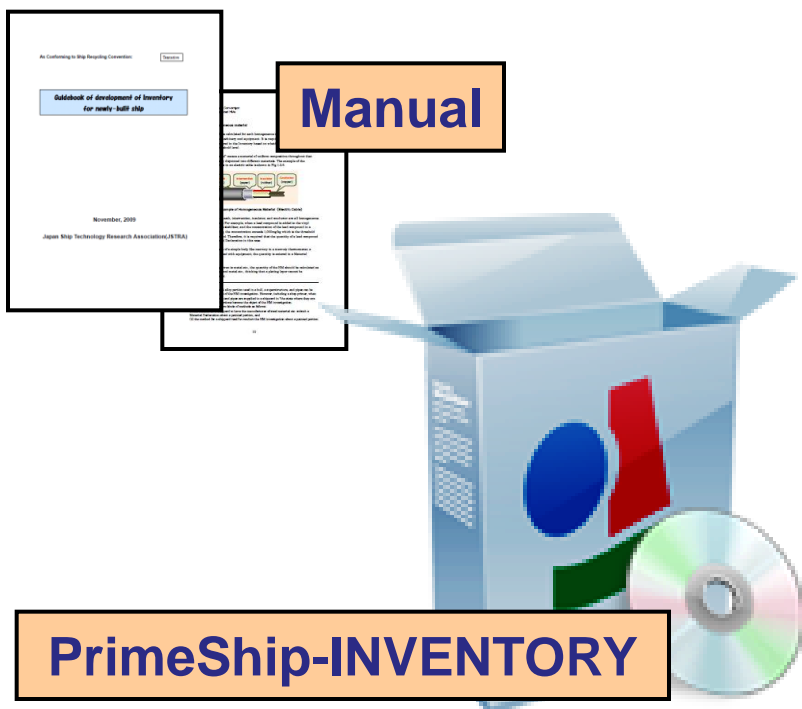
<Step3> On-board Checking **ClassNK's Survey**

<Step4> Finailize IHM Part I **ClassNK's Approval**

ClassNK decided to develop a software;

PrimeShip-INVENTORY,

for the **smooth** development IHM, MD and SDoC for Newly-Built Ships.



1. Arrange Seminar to shipbuilders, makers, etc.

2. Visit shipbuilders and makers to explain how to develop IHM.

3. Steps for developing IHM Part I

<Step1> Collect MD and SDoC which made by MD-Tool and sent by e-mail

<Step2> Upload MD and SDoC tpo PrimeShip-INVENTORY.
PrimeShip-INVENTORY automatically develops IHM.

<Step3> On-board Checking **ClassNK' s Survey**

<Step4> Finallize IHM Part I **ClassNK' s Approval**

Supplier

- Create Material Declaration (MD) Data file by “MD Tool” [Excel-based]
- Create Supplier’s Declaration of Conformity(SDoC) file [pdf]



NK007 ClassNK
K_20090126-0
10707.spis

SDoC-ClassNK
K.pdf

Material Declaration																													
<table border="1"> <tr> <th>Material Name</th> <th>Material No.</th> <th>Material Description</th> <th>Material Quantity</th> <th>Material Unit</th> <th>Material Location</th> <th>Material Status</th> <th>Material Remark</th> <th>Material Date</th> <th>Material Issue</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>										Material Name	Material No.	Material Description	Material Quantity	Material Unit	Material Location	Material Status	Material Remark	Material Date	Material Issue										
Material Name	Material No.	Material Description	Material Quantity	Material Unit	Material Location	Material Status	Material Remark	Material Date	Material Issue																				

MD

1) No. ClassNK: _____

2) Issuer's name: ClassNK

3) Issuer's address: 4-7 Kiocho, Chiyoda-ku, Tokyo, JAPAN

4) Object of the declaration: Main Engine ME01

5) The object of the declaration described above is in conformity with the requirement of the following documents.

Document No.: Title Edition/Date of issue

6) Additional Information: _____

Signed for and on behalf of: _____

SDoC

Send
MD
& SDoC
by Email

Shipbuilder

PrimeShip-INVENTORY

- Import MD & SDoC files
- Set Locations for the MD data containing Hazardous Materials
- Inventory is prepared Automatically

Easier!

Inventory



inventory.xls

Export the data for
NK Approval/Owner

3 -Step1. Collect MD and SDoC

Shipbuilders

With PrimeShip-INVENTORY

1. Arrange Seminar to shipbuilders, makers, etc.

2. Visit shipbuilders and makers to explain how to develop IHM.

3. Steps for developing IHM Part I

<Step1> Collect MD and SDoC which made by MD-Tool and sent by e-mail

<Step2> Upload MD and SDoC tpo PrimeShip-INVENTORY.
PrimeShip-INVENTORY automatically develops IHM.

<Step3> On-board Checking **ClassNK's Survey**

<Step4> Finalize IHM Part I **ClassNK's Approval**

Maker

3 -Step2. Upload MDs and SDoCs



Shipbuilders



1. Arrange Seminar to shipbuilders, makers, etc.

2. Visit shipbuilders and makers to explain how to develop IHM.

3. Steps for developing IHM Part I

<Step1> Collect MD and SDoC which made by MD-Tool and sent by e-mail

**<Step2> Upload MD and SDoC tpo PrimeShip-INVENTORY.
PrimeShip-INVENTORY automatically develops IHM.**

<Step3> On-board Checking **ClassNK' s Survey**

<Step4> Finailize IHM Part I **ClassNK' s Approval**

3 -Step3. On-board Checks (1/3)



1. Arrange Seminar to shipbuilders, makers, etc.

2. Visit shipbuilders and makers to explain how to develop IHM.

3. Steps for developing IHM Part I

<Step1> Collect MD and SDoC which made by MD-Tool and sent by e-mail

<Step2> Upload MD and SDoC tpo PrimeShip-INVENTORY.
PrimeShip-INVENTORY automatically develops IHM.

<Step3> On-board Checking **ClassNK' s Survey**

<Step4> Finailize IHM Part I **ClassNK' s Approval**

3 -Step3. On-board Checks (2/3) Visual Check

Hull Part
/ Superstructure
/ Compass Deck

44. SCANNER UNIT



1. Arrange Seminar to shipbuilders, makers, etc.

2. Visit shipbuilders and makers to explain how to develop IHM.

3. Steps for developing IHM Part I

<Step1> Collect MD and SDoC which made by MD-Tool and sent by e-mail

<Step2> Upload MD and SDoC tpo PrimeShip-INVENTORY.
PrimeShip-INVENTORY automatically develops IHM.

<Step3> On-board Checking **ClassNK's Survey**

<Step4> Finalize IHM Part I **ClassNK's Approval**

3 -Step3. On-board Checks (3/3) Visual Check

Machinery Part
/ Engine Room
/ 3rd Deck

57. VERTICAL OIL-FIRED BOILER



1. Arrange Seminar to shipbuilders, makers, etc.

2. Visit shipbuilders and makers to explain how to develop IHM.

3. Steps for developing IHM Part I

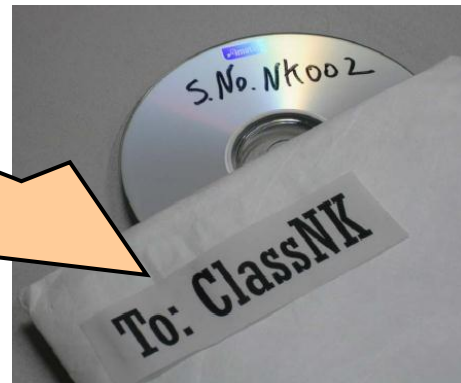
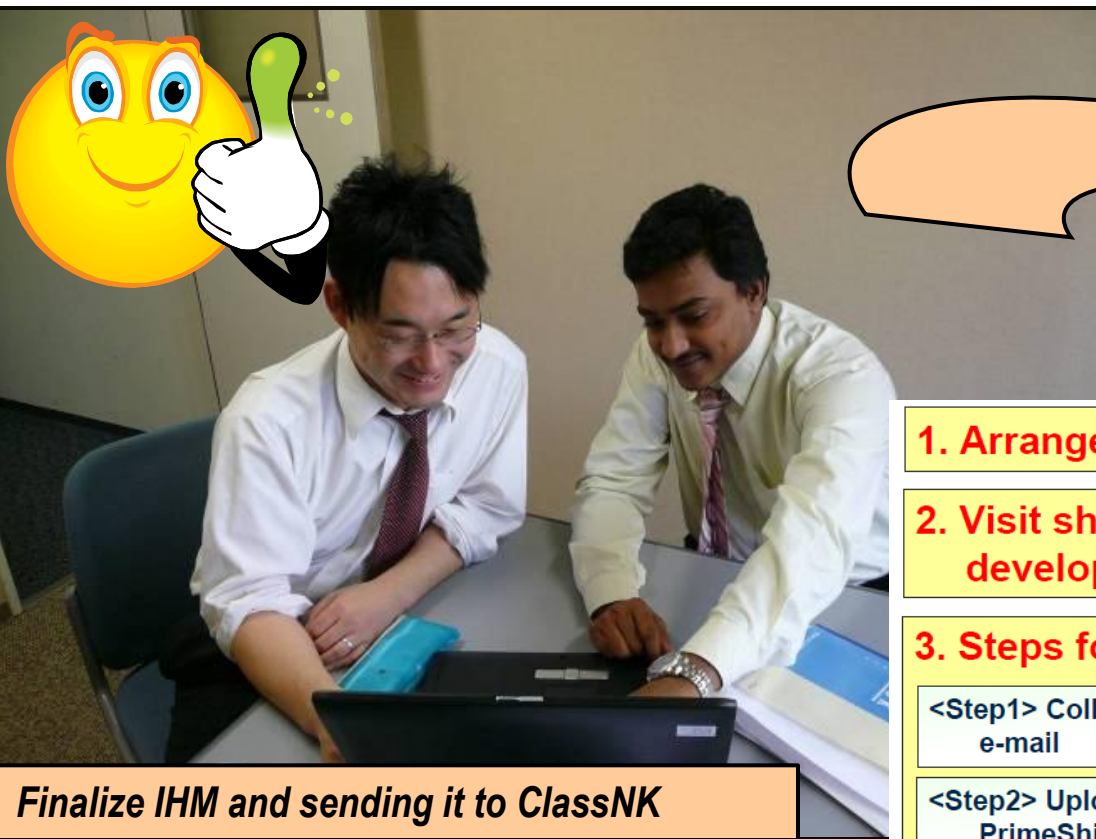
<Step1> Collect MD and SDoC which made by MD-Tool and sent by e-mail

<Step2> Upload MD and SDoC tpo PrimeShip-INVENTORY.
PrimeShip-INVENTORY automatically develops IHM.

<Step3> On-board Checking **ClassNK's Survey**

<Step4> Finalize IHM Part I **ClassNK's Approval**

3 -Step4. Finalize IHM and submit to ClassNK



Finalize IHM and sending it to ClassNK

1. Arrange Seminar to shipbuilders, makers, etc.

2. Visit shipbuilders and makers to explain how to develop IHM.

3. Steps for developing IHM Part I

<Step1> Collect MD and SDoC which made by MD-Tool and sent by e-mail

<Step2> Upload MD and SDoC tpo PrimeShip-INVENTORY.
PrimeShip-INVENTORY automatically develops IHM.

<Step3> On-board Checking **ClassNK' s Survey**

<Step4> Finailize IHM Part I **ClassNK' s Approval**

3-Step4. Finalize IHM and submit to ClassNK



Inventory of Hazardous Materials Identification No. _____

INVENTORY OF HAZARDOUS MATERIALS
ATTACHMENT TO THE INTERNATIONAL CERTIFICATE ON INVENTORY OF HAZARDOUS MATERIALS

Name of Ship		CLASSNK PRIME
Distinctive number or letters		NK002
IMO number		---
Port of Registry		---
Gross Tonnage		41,000
Shipowner	Name	---
---	Address	---
IMO registered owner identification number	---	---
IMO company identification number	---	---
Date of Construction	---	---

Completion date of survey on which this document is based: _____

Issued at: _____

Date of issue: _____

Signature of Ship authorized officer (signing the inventory) _____
(Seal or stamp of the authority of the shipowner)
APPROVED
NIPPON KAIJI KYOKAI

This inventory was developed in accordance with the Guidelines for the development of the inventory of Hazardous Materials.

1. Arrange Seminar to shipbuilders, makers, etc.

2. Visit shipbuilders and makers to explain how to develop IHM.

3. Steps for developing IHM Part I

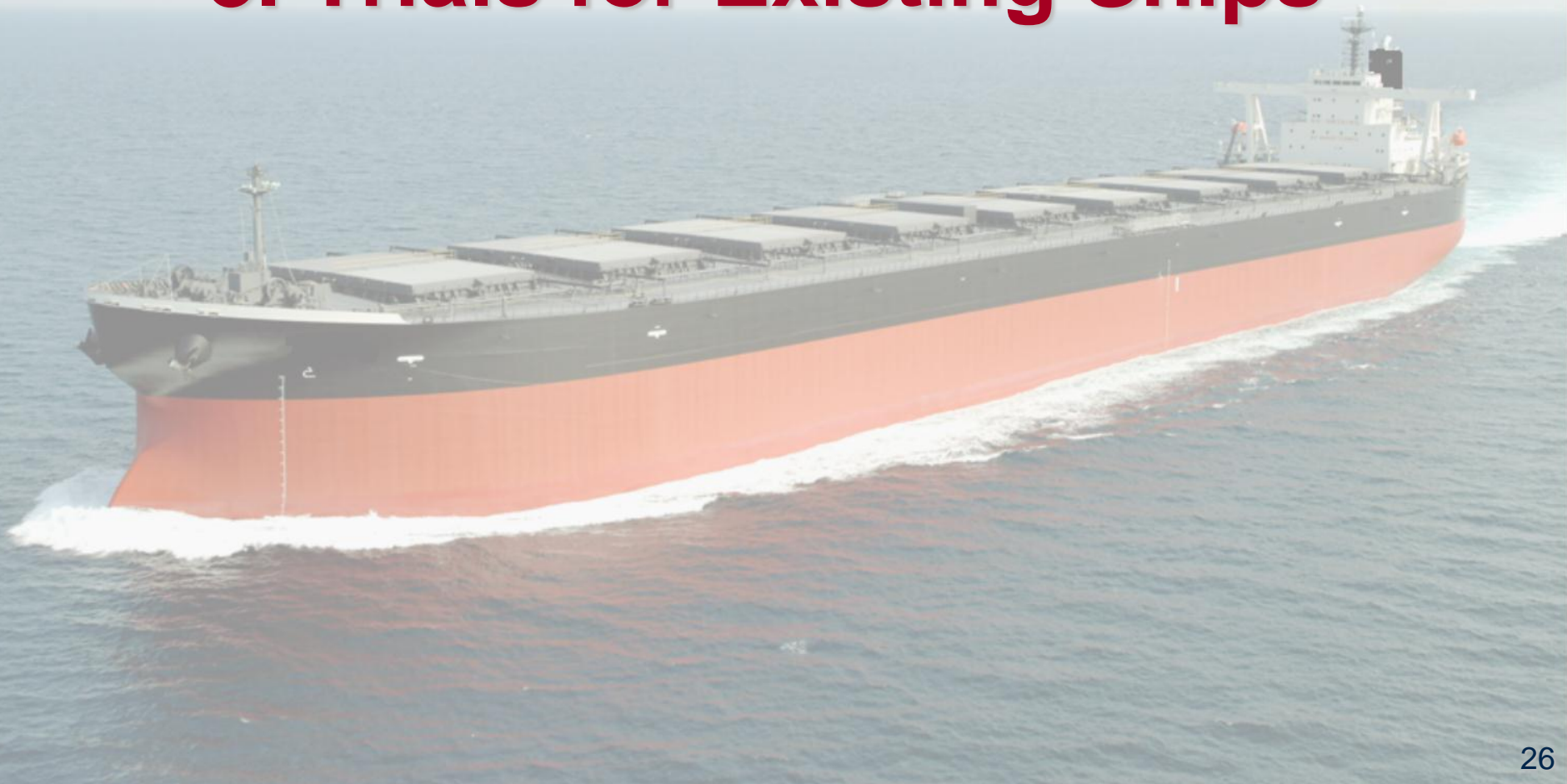
<Step1> Collect MD and SDoC which made by MD-Tool and sent by e-mail

<Step2> Upload MD and SDoC tpo PrimeShip-INVENTORY.
PrimeShip-INVENTORY automatically develops IHM.

<Step3> On-board Checking **ClassNK's Survey**

<Step4> Finalize IHM Part I **ClassNK's Approval**

3. Trials for Existing Ships



■ Level of investigation

“Shall comply as far as Practicable”,
at least 4 Materials on Table A should be identified.

■ Deadline for development of the IHM

Within 5 years after the Convention enters into force.
(Assumed due date 2017)

■ Method of the development

Experts make an IHM according to the necessary steps
prescribed in “the Guideline for the Convention”;

- This method does not need to trace back the supply
chain of the ships.

<Step1> Collection of necessary information

As-fitted drawings, Manuals, Data on sister ships etc.

<Step2> Analysis and Definition of scope of investigations

Table A Materials are compulsory, Table B recommended.

<Step3> Preparation of Visual/Sampling Check Plan

Classify the area for (1) Visual check, (2) Sampling check, (3) Potential.

<Step4> Onboard Visual Check and Sampling Check

The area where Check cannot be done are classified as Potential area.

<Step5> Preparation of IHM - Part I

Classify into “Containing Hazardous Material” or “Potentially containing Hazardous Material” with quantity and location.

<Administration or RO> On Board Survey

Administration/RO has on-board survey through IHM and/or VSC plan

<Administration or RO> Approval of IHM

*Expert
Work*

*Class
Work*

1. Investigation of Plans



Collecting plans of ship and selecting necessary plans.

<Step1> Collection of necessary information

As-fitted drawings, Manuals, Data on sister ships etc.

<Step2> Analysis and Definition of scope of investigations

Table A Materials are compulsory, Table B recommended.

<Step3> Preparation of Visual/Sampling Check Plan

Classify the area for (1) Visual check, (2) Sampling check, (3) Potential.

<Step4> Onboard Visual Check and Sampling Check

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<Step5> Preparation of IHM - Part I

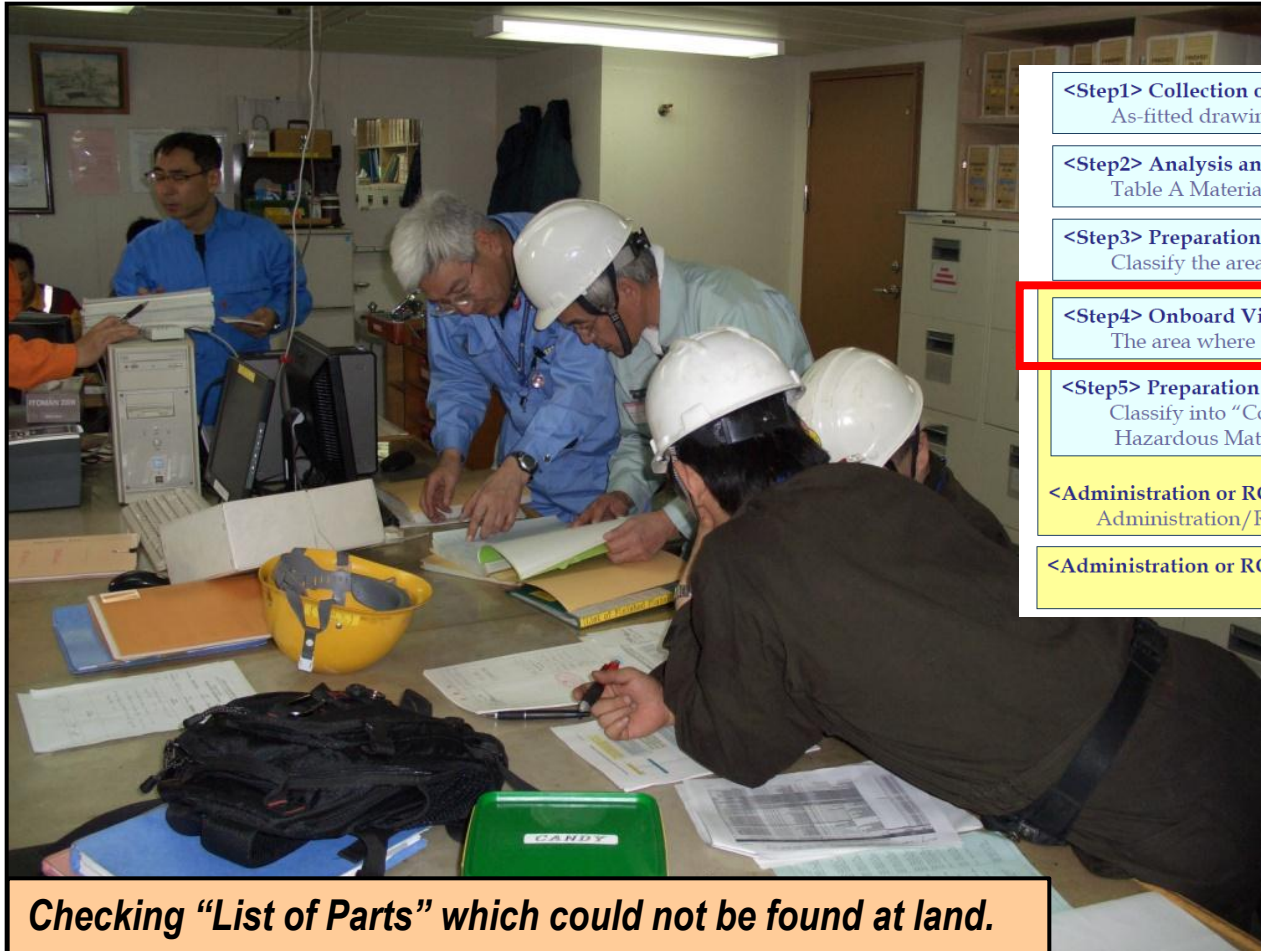
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<Administration or RO> On Board Survey

Administration/RO has on-board survey through IHM and/or VSC plan

<Administration or RO> Approval of IHM

2. Onboard Check (Investigation of Plans onboard)



<Step1> Collection of necessary information

As-fitted drawings, Manuals, Data on sister ships etc.

<Step2> Analysis and Definition of scope of investigations

Table A Materials are compulsory, Table B recommended.

<Step3> Preparation of Visual/Sampling Check Plan

Classify the area for (1) Visual check, (2) Sampling check, (3) Potential.

<Step4> Onboard Visual Check and Sampling Check

The area where Check cannot be done are classified as Potential area.

<Step5> Preparation of IHM - Part I

Classify into "Containing Hazardous Material" or "Potentially containing Hazardous Material" with quantity and location.

<Administration or RO> On Board Survey

Administration/RO has on-board survey through IHM and/or VSC plan

<Administration or RO> Approval of IHM

Checking "List of Parts" which could not be found at land.

3. Onboard Check (Store Survey)



Surveying Store for investigating used packing.

<Step1> Collection of necessary information

As-fitted drawings, Manuals, Data on sister ships etc.

<Step2> Analysis and Definition of scope of investigations

Table A Materials are compulsory, Table B recommended.

<Step3> Preparation of Visual/Sampling Check Plan

Classify the area for (1) Visual check, (2) Sampling check, (3) Potential.

<Step4> Onboard Visual Check and Sampling Check

The area where Check cannot be done are classified as Potential area.

<Step5> Preparation of IHM - Part I

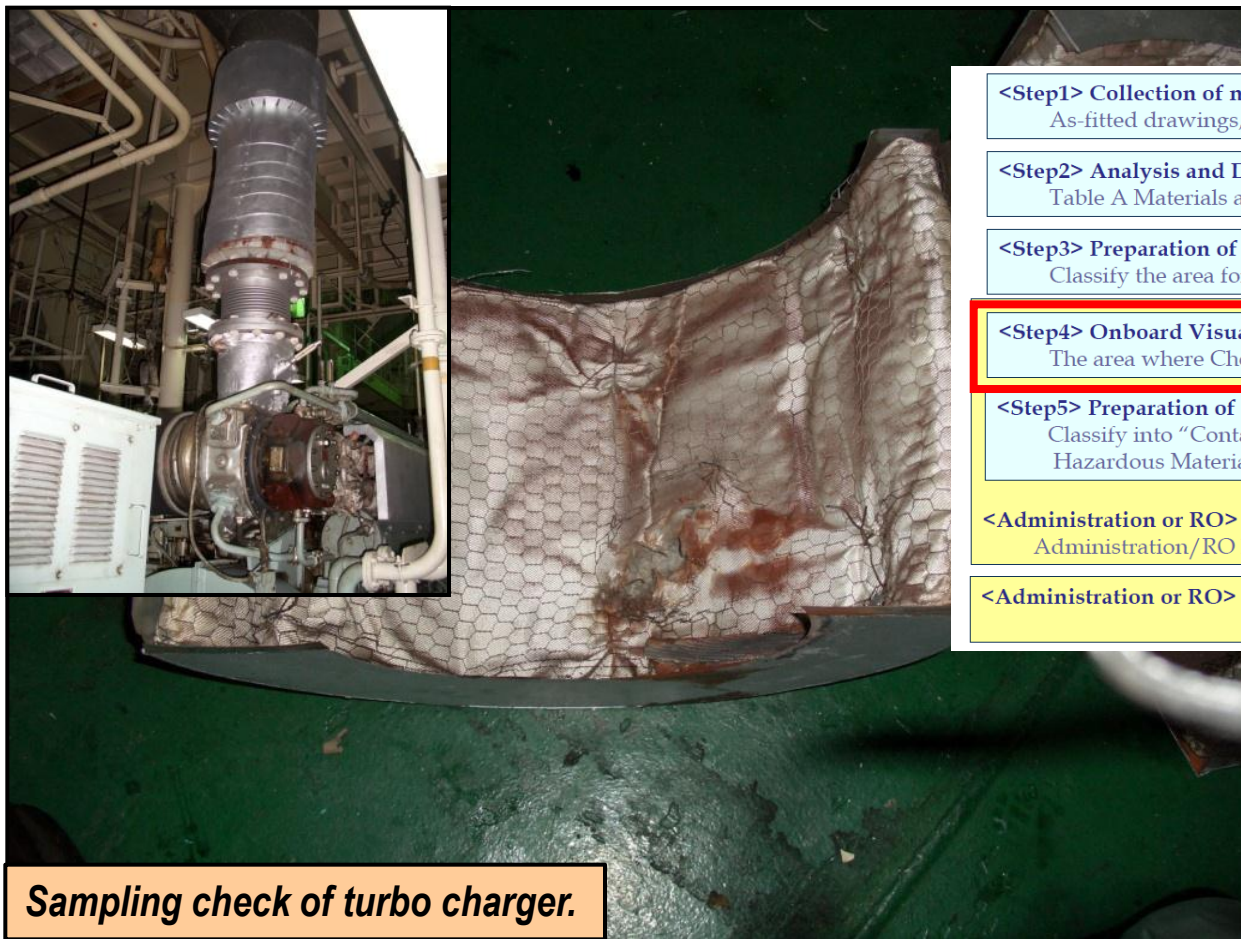
Classify into "Containing Hazardous Material" or "Potentially containing Hazardous Material" with quantity and location.

<Administration or RO> On Board Survey

Administration/RO has on-board survey through IHM and/or VSC plan

<Administration or RO> Approval of IHM

4. Onboard Check (Sampling Check)



Sampling check of turbo charger.

<Step1> Collection of necessary information

As-fitted drawings, Manuals, Data on sister ships etc.

<Step2> Analysis and Definition of scope of investigations

Table A Materials are compulsory, Table B recommended.

<Step3> Preparation of Visual/Sampling Check Plan

Classify the area for (1) Visual check, (2) Sampling check, (3) Potential.

<Step4> Onboard Visual Check and Sampling Check

The area where Check cannot be done are classified as Potential area.

<Step5> Preparation of IHM - Part I

Classify into "Containing Hazardous Material" or "Potentially containing Hazardous Material" with quantity and location.

<Administration or RO> On Board Survey

Administration/RO has on-board survey through IHM and/or VSC plan

<Administration or RO> Approval of IHM

5. Onboard Check (Visual Check)



<Step1> Collection of necessary information

As-fitted drawings, Manuals, Data on sister ships etc.

<Step2> Analysis and Definition of scope of investigations

Table A Materials are compulsory, Table B recommended.

<Step3> Preparation of Visual/Sampling Check Plan

Classify the area for (1) Visual check, (2) Sampling check, (3) Potential.

<Step4> Onboard Visual Check and Sampling Check

The area where Check cannot be done are classified as Potential area.

<Step5> Preparation of IHM - Part I

Classify into "Containing Hazardous Material" or "Potentially containing Hazardous Material" with quantity and location.

<Administration or RO> On Board Survey

Administration/RO has on-board survey through IHM and/or VSC plan

<Administration or RO> Approval of IHM

Visual Check is executed from bottom of engine room to top of accommodation area.

8. Making IHM (Inventory of Hazardous Materials)

<Step1> Collection of necessary information

As-fitted drawings, Manuals, Data on sister ships etc.

<Step2> Analysis and Definition of scope of investigations

Table A Materials are compulsory, Table B recommended.

<Step3> Preparation of Visual/Sampling Check Plan

Classify the area for (1) Visual check, (2) Sampling check, (3) Potential.

<Step4> Onboard Visual Check and Sampling Check

The area where Check cannot be done are classified as Potential area.

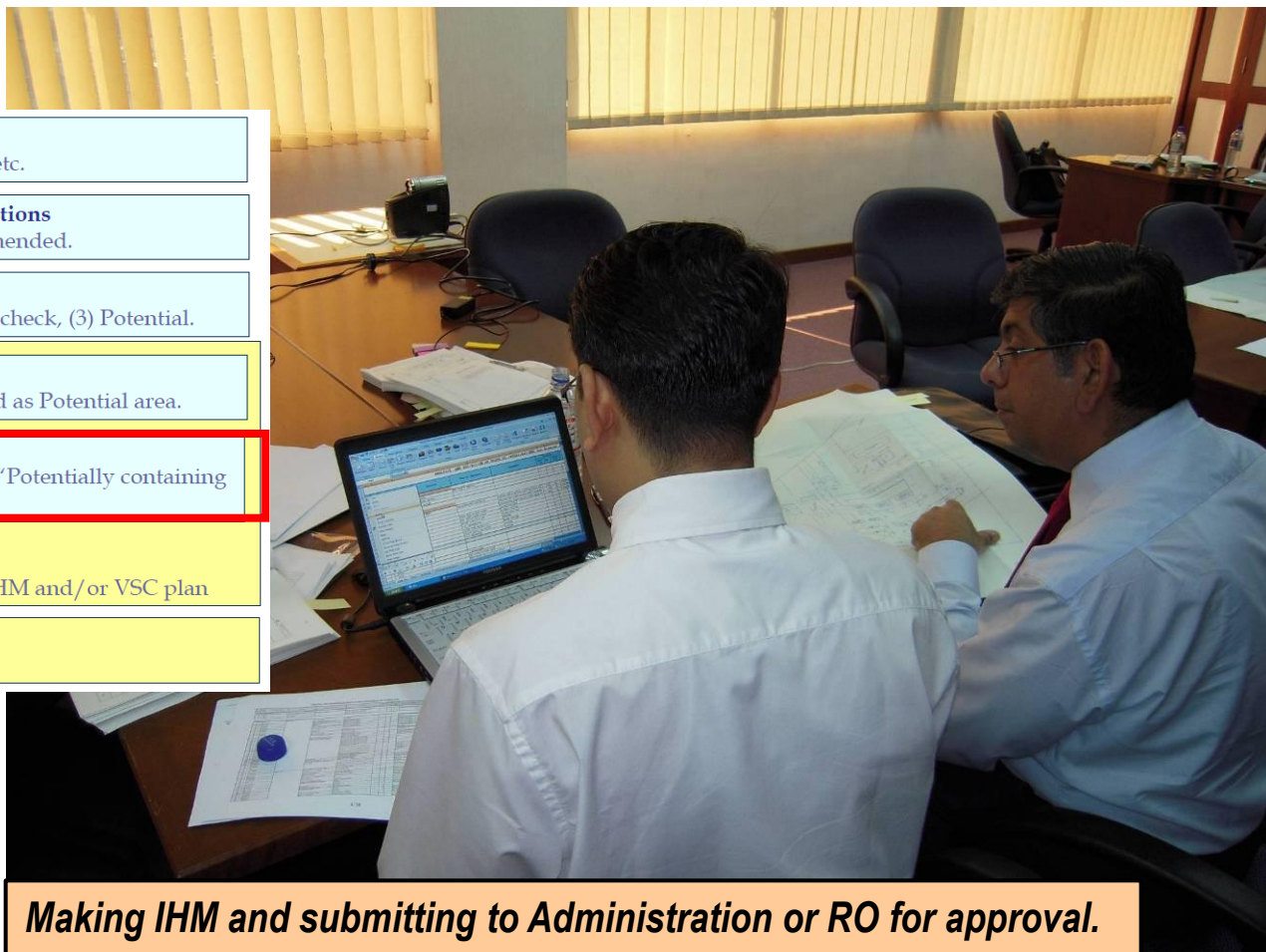
<Step5> Preparation of IHM - Part I

Classify into "Containing Hazardous Material" or "Potentially containing Hazardous Material" with quantity and location.

<Administration or RO> On Board Survey

Administration/RO has on-board survey through IHM and/or VSC plan

<Administration or RO> Approval of IHM



Making IHM and submitting to Administration or RO for approval.

Sample of IHM for Existing Ship

Inventory of Hazardous Materials : XXXXXXXXXX

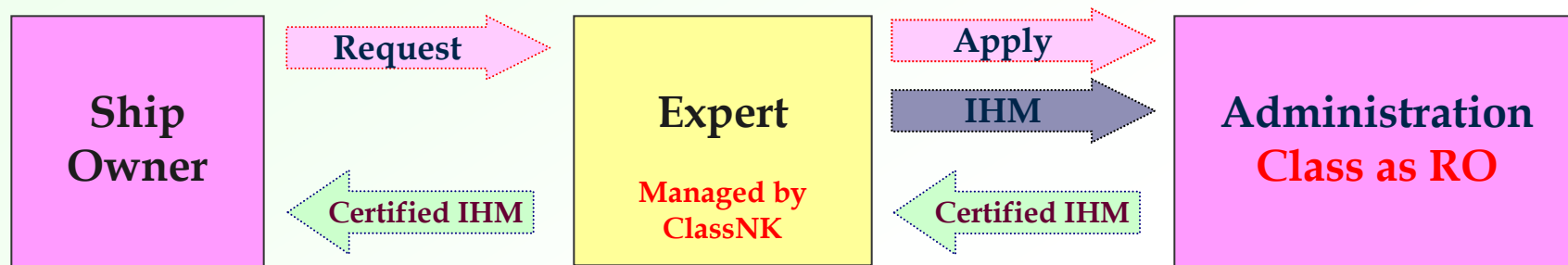
Part1 HAZARDOUS MATERIALS CONTAINED IN THE SHIP'S STRUCTURE AND EQUIPMENT

1.1 Paints and Coating Systems containing materials listed in Table A and Table B of Appendix 1 of the Guidelines

No	Application of Paint	Name of Paint	Location	Materials (Classification in	Appx Quantity	Remarks
1	Antifouling	• Tin type AF paint of KP ACE SP A/F 100 Brown & Red Oxide until April, 1994.	Boot top	TBT	To be written after the result of sampling analyses has been gotten.	kg
2		• Then, sealer coat applied on January, 2004.	Vertical bottom	TBT	To be written after the result of sampling analyses has been gotten.	kg
3		• Tin type AF paint of KP ACE SP A/F 100 Brown & Red Oxide until August, 1991. • Then, sealer coat applied on January, 2004.	Flat bottom	TBT	To be written after the result of sampling analyses has been gotten.	kg

1.2 Equipment and Machinery containing materials listed in Table A and Table B of Appendix 1 of the Guidelines

No	Name of Equipment and Machinery	Location	Materials (Classification in Appendix I)	Parts of Use	Appx Quantity	Remarks
1	Main engine	Lower floor	Asbestos	Packing for air cooler	0.24 kg	
2			Asbestos	Gasket for governor	0.06 kg	
3			Asbestos	Brake lining for turning gear	0.03 kg	
4	Propeller		Asbestos	Sheet Packing	0.32 kg	
5	Stern tube seal		Asbestos	Sheet packing(No.11)	0.29 kg	
6			Asbestos	Sheet packing(No.10)	0.16 kg	
7			Asbestos	Sheet packing(No.12)	0.29 kg	
8	Main L.O. pump		Asbestos	Packing for bottom cover	0.13 kg	
9	Sludge pump		Asbestos	Gland packing	0.36 kg	
10	Bilge circ. Pump		Asbestos	Gland packing	0.32 kg	
11	Boiler water circ. pump		Asbestos	Gasket	0.03 kg	



■ **One stop servicing** for Ship-Owners

For ship-owners, no need to contact a number of organizations to request IHM for an existing ship.

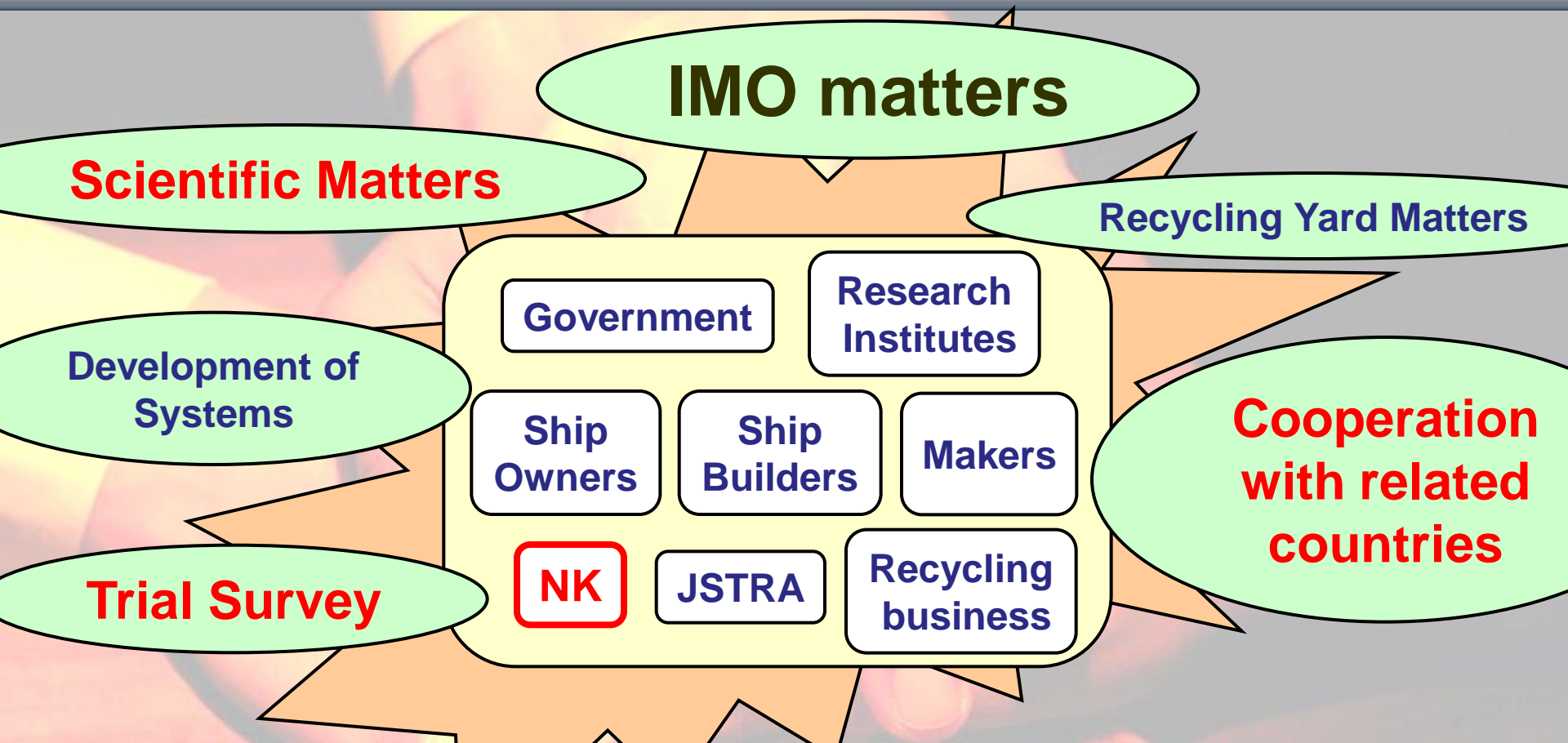
ClassNK will manage expert function as a satellite company after privatization from NPO status - soon.

■ **Minimize** work and fee

At present, IHM work has been implemented with an expert, JSTRA - a foundation established by JG, as an implementation program of the Convention.



4. ClassNK and the Convention



Stake Holders of Maritime Sector in Japan
are **cooperating together on Implementation of**
Development and Survey of IHM, MD and SDoC.

ClassNK is

cooperating with all the concerned parties (ship owners, shipbuilders, etc.) for necessary preparation to **ensure smooth implementation** of the Convention.

Activities in Japan for Developing IHM(from 2008 to 2009)

- ✓ Trial of Existing Ships (approx. 40 Ships)
- ✓ Trial of Newly Built Ships (approx. 20 Ships)
- ✓ Making a software for Development of IHM
- ✓ Arrangement of Seminars on the Convention and Meetings with Owners, Shipyards etc.

NK

- ✓ Issuance of **Statement of Fact**

Activities in Japan for Developing IHM (2010-)

✓ Muroran Project (Trial of Ship Recycling in Japan)

.... And as a future plan;

✓ Trial of International Ship Recycling

NK

✓ All the Process under the Convention be taken.



INVENTORY OF HAZARDOUS MATERIALS	
ATTACHMENT TO ILM, INTERNATIONAL CERTIFICATE ON INVENTORY OF HAZARDOUS MATERIALS	
Name of Ship	CLASSNK
Signature, Name and Title	
Date of Issue	
Date of Expiry	
Signature, Name and Title	
Date of Issue	
Date of Expiry	
Completion date of survey on which this document is based	
Signature of Ship's authorized officer (Name and Title)	
Date of Issue	
Date of Expiry	

APPROVED

Signature of Ship's authorized officer (Name and Title)

Date of Issue

Date of Expiry



- ✓ **ClassNK issues Statement of Fact (SOF) for the IHM developed before the convention comes into force.**
- ✓ **Shipowners are able to proceed to the early preparation since SOF is rewritten to the conventional certificate after the convention comes into force.**
- ✓ **ClassNK has already issued SOF.**

Inventory of Hazardous Materials Identification No. _____


INVENTORY OF HAZARDOUS MATERIALS
ATTACHMENT TO THE INTERNATIONAL CERTIFICATE ON INVENTORY OF HAZARDOUS MATERIALS

Name of Ship	CLASSNK PRIME
Distinctive number or letters	NK002
IMO number	---
Port of Registry	---
Gross Tonnage	40,000
Shipowner	Name Address
IMO registered owner identification number	---
IMO company identification number	---
Date of Construction	---

Completion date of survey on which this document is based: _____

Issued at: _____

Date of Issue: _____



(signature of duly authorized official issuing the certificate) _____
(Seal or stamp of the authority, as appropriate)

This inventory was developed in accordance with the Guidelines for the development of the Inventory of Hazardous Materials.

Statement of Fact

No. KC 09N2-XXXX

Date: _____

THIS IS TO CERTIFY that the undersigned Surveyor did, at the request of ---, examine the report of "Inventory of Hazardous Materials" of the following vessel:

MV "---

Flag : _____

Port of Registry : _____

Signal Letters : _____

IMO Number : _____

Type of Vessel : _____

Gross Tonnage : _____

Shipbuilder : _____

Name of Owners : _____

in accordance with "MEPC 58/3/2, Draft Guidelines for the Development of the Inventory of Hazardous Materials", and found satisfactory, excluding the materials listed in the remaining list of "Material declaration" and "Supplier's declaration of conformity" attached hereto.

()
Nippon Kaiji Kyokai,
Marine & Industrial Service Department

Please visit the Ship Recycling page
of ClassNK website at <http://www.classnk.or.jp>

Providing various information

Posting “Material Declaration Tool” for free download

The screenshot displays the ClassNK website's navigation menu and main content area. The navigation menu includes links for Products & Services, Information Services, e-Library, and Links. The main content area is divided into three columns: Products & Services, Information Services, and e-Library. The Information Services column highlights the Ship Recycling Convention, with a red box around the link. The e-Library column lists various publications and downloads, including the Material Declaration Tool. A red arrow points from the link in the Information Services column to the detailed page content on the right.

Products & Services

- Ship Classification
- Statutory Certification
- Technical Services
- ISO 9000 & ISO 14000
- PrimeShip
- Common Structural Rules
- Research & Development
- Training
- International Activities
- IACS Commitments
- Cooperation with Industries
- Material Testing Machine

Information Services

- Web Service Portal
- Service Directory
- Technical Information
- IMO International Convention Calendar
- IACS Unified Requirement and Unified Interpretation
- Port State Control
- Classification Related
- ISM Code Related
- ISPS Code Related
- ILC 2002, 2006 related
- Ship Recycling Convention**
- Ballast Water Management Convention

e-Library

- Publications
 - Rules and Guidances
 - Register of Ships
 - Free Publications
 - PDF Publications
 - Online Ordering
- Downloads
 - Application Forms
 - ISM Application Forms
 - ISPS Application Forms
 - Software

Ship Recycling Convention

ClassNK Action for Ship Recycling Convention

The Hong Kong International Convention for the Safe and Environmentally Sound Recycling of Ships, 2009 (Ship Recycling Convention) was adopted in May 2009. After the convention enters into force, development and maintenance of an Inventory of Hazardous Materials is required for all the ships over 500GT.

For both of Existing Ships and New Ships, the development of the Inventory(IHM) will be the significant task. ClassNK proceeds to our actions so that concerned parties including shipowners, shipbuilders, and suppliers are able to implement the convention smoothly.

Assistance for development of Part I of Inventory(IHM)

- Existing ship introducing and providing an Expert for the Inventory(IHM) development
- New ship developing and providing the software "PrimeShip-Inventory" for the Inventory(IHM) development, which reduces the burden of shipbuilders and suppliers

Proactive implementation by Statement of Fact

Issuing Statement of Fact(SOF) for the Inventory(IHM) developed before the convention enters into force and rewriting to the conventional certificate afterwards, which results in smooth implementation.

For details of the convention and ClassNK Action, please refer to the following document:

[ClassNK Solutions of Ship Recycling Convention](#)

Inventory Development for New Ship

Shipbuilders develop an inventory by the following steps:

- Record submitted Material Declaration(MD) and Supplier's Declaration of Conformity(SDoC) for all procured products.
- Screen all products containing Hazardous Materials above the threshold levels.
- Identify the location of these products and calculate the amounts of Hazardous Materials at each location.
- Prepare properly formatted Inventory(IHM).

PrimeShip-Inventory makes it easy for ship suppliers to electronically submit completed MDs and SDoCs, and makes it inventory development a smooth and simple process for shipbuilders. For Inventory(IHM) development by PrimeShip-Inventory, please use the following MD/SDoC format:

Material Declaration(MD) Tool

*The tool includes the function to prepare SDoC.

For Suppliers

Excel based "Material Declaration(MD) Tool" enables suppliers to prepare accurate Material Declarations promptly, and provides error-check capabilities for Material Declarations. (Macro activated Microsoft 2007/2002/2003 is required for MD Tool).

For Shipbuilders

PrimeShip-Inventory allows shipbuilders to develop Inventory(IHM) by importing MD/SDoC data and setting locations for MDE containing Hazardous Materials. PrimeShip-Inventory addresses the need to post MD data and automatically calculates the amounts of Hazardous Materials at each location.

Inventory of Hazardous Materials Identification No. _____

INVENTORY OF HAZARDOUS MATERIALS

ATTACHMENT TO THE INTERNATIONAL CERTIFICATE ON INVENTORY OF HAZARDOUS MATERIALS

Name of Ship	CLASSNK PRIME
Distinctive number or letters	NK002
IMO number	---
Port of Registry	---
Gross Tonnage	40,000
Shipowner	Name Address
IMO registered owner identification number	---
IMO company identification number	---
Date of Construction	---

Completion date of survey on which this document is based: _____

Issued at: _____

Date of Issued: _____



(signature of duly authorized official issuing the certificate)

(Seal or stamp of the authority, as appropriate)

This inventory was developed in accordance with the Guidelines for the development of the Inventory of Hazardous Materials.



Thank you !

