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

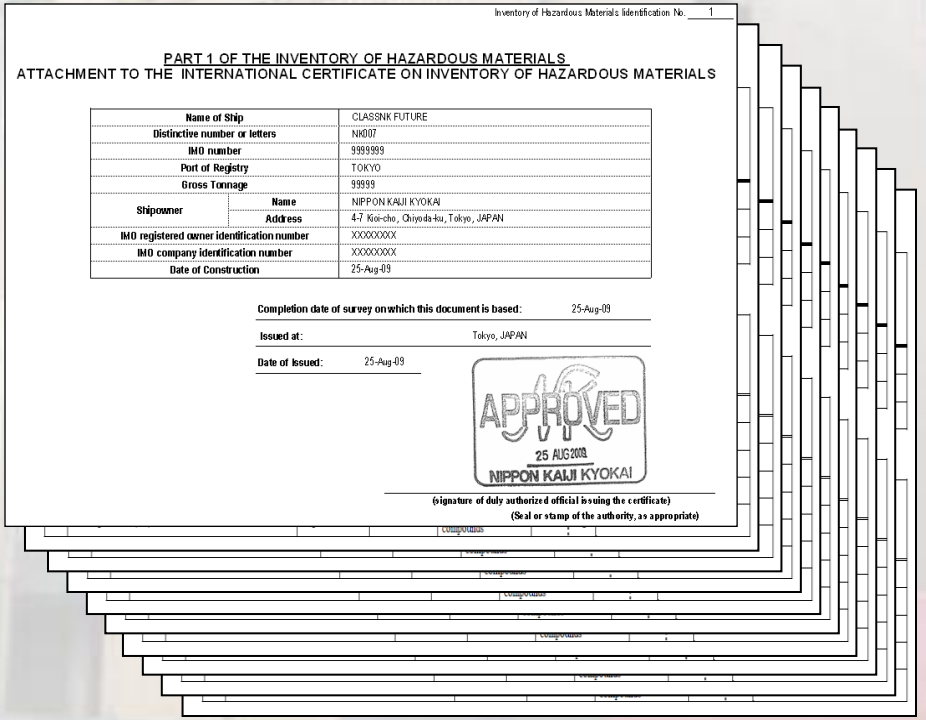
June 2010

NIPPON KAIJI KYOKAI

Trial developments and surveys of Inventory of Hazardous Materials (IHM)

Contents

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 Kioi-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 Issued: 25-Aug-09

APPROVED
25 AUG 2009
NIPPON KAIJI KYOKAI

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

IHM at the Convention

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

Role of IHM in the Convention

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

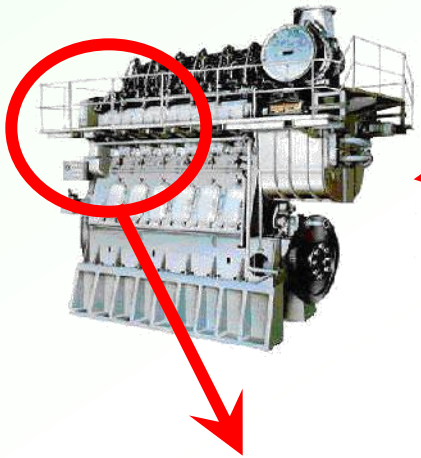


Table B Materials Listed in Appendix 2 of the	Mercury and Mercury Compounds	1,000 mg/kg	Yes	10	g
	Polybrominated Biphenyl (PBBs)	1,000 mg/kg	No		

Definition/Aim of IHM

Aim of the IHM

- To provide information on Hazardous Materials on board the ship to:

✓ **Protect safety and health of workers**

✓ **Prevent environmental pollution**

Scope of the IHM

- 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**

Materials to be listed in the IHM

- 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

Example of IHM

(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 1of 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	

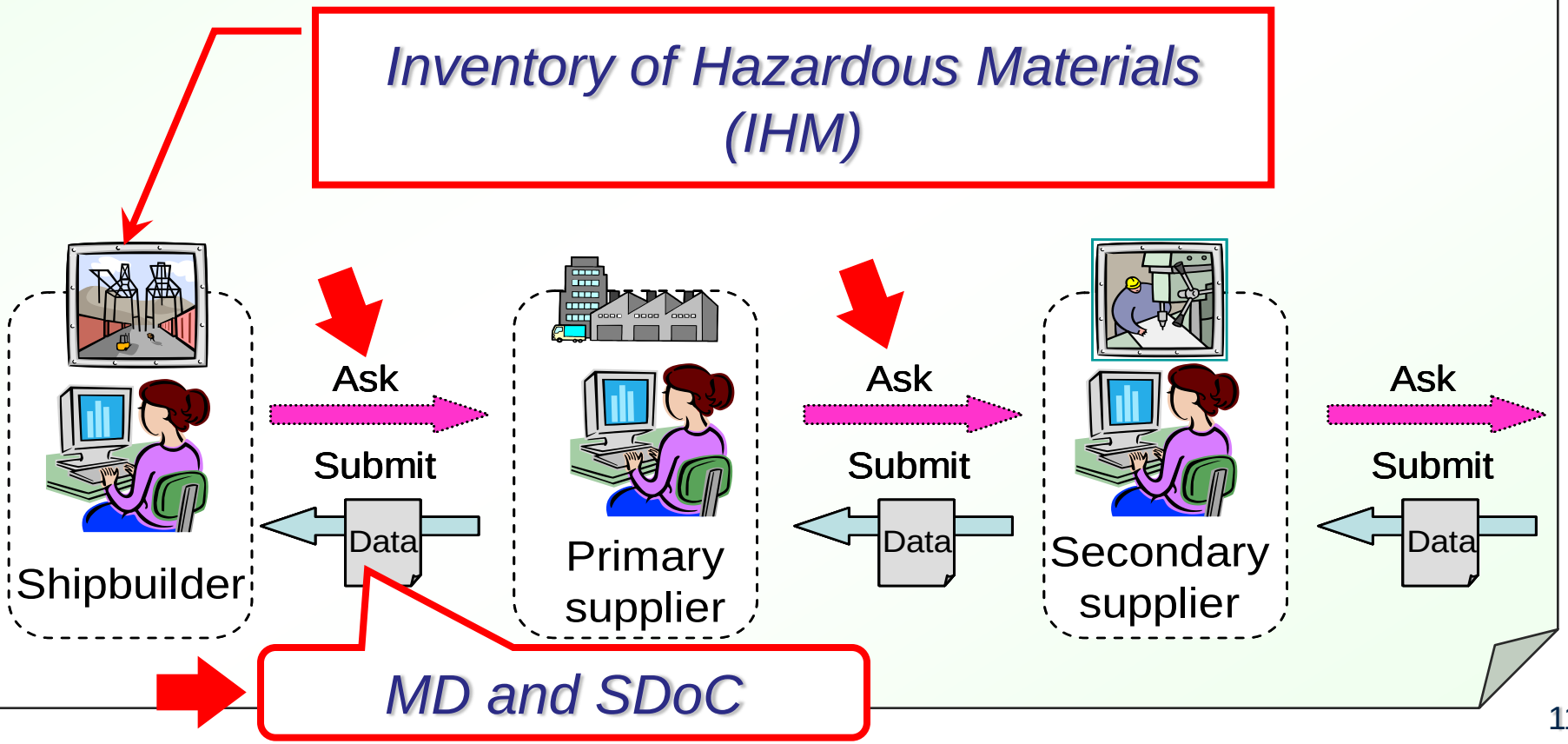
I-2 Equipment and machinery containing materials listed in Table A and Table B of appendix 1 of the guidelines

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

How to develop IHM for New Ship

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



Trial Survey of IHM 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> Finailize IHM Part I ClassNK's Approval

Activities of Trial Survey

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

Activities of Trial Survey

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

Activities of Trial Survey

3 -Step1. Collect MD and SDoC

Only with Ship - Recycling Convention and its Guideline

1. Arrange Seminar to shipbuilders, makers, etc.

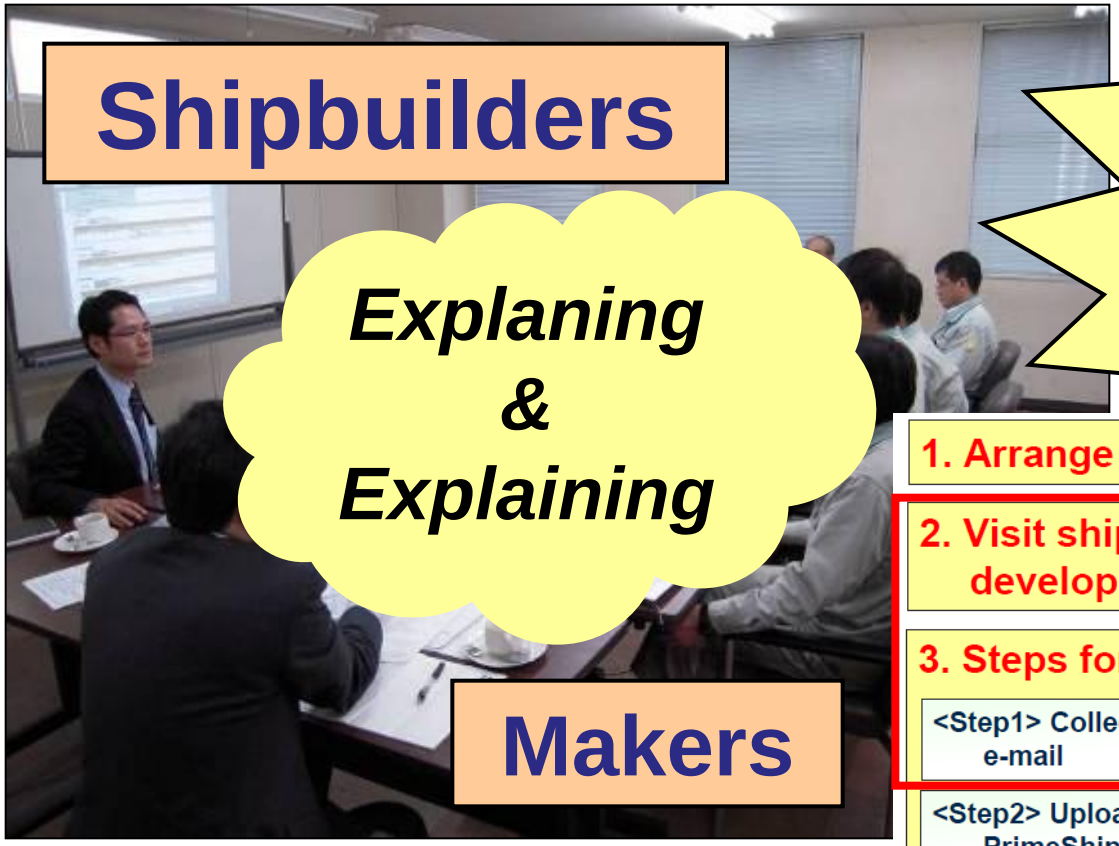
2. Visit shipbuilders and makers to explain how to develop IHM.

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

Activities of Trial Survey

Visit to consult Confusing situation



Again & Again

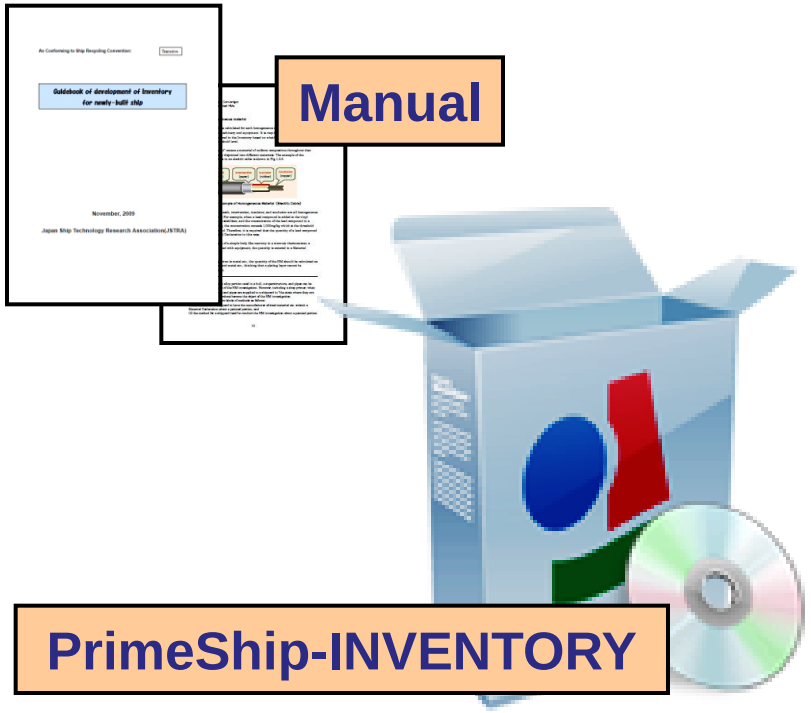
1. Arrange Seminar to shipbuilders, makers, etc.
2. Visit shipbuilders and makers to explain how to develop IHM.
3. Steps for developing IHM Part I
   - <Step1> Collect MD and SDoC which made by MD-Tool and sent by e-mail
   - <Step2> Upload MD and SDoC tpo PrimeShip-INVENTORY. PrimeShip-INVENTORY automatically develops IHM.
   - <Step3> On-board Checking — ClassNK's Survey
   - <Step4> Finailize IHM Part I — ClassNK's Approval

Activities of Trial Survey

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.
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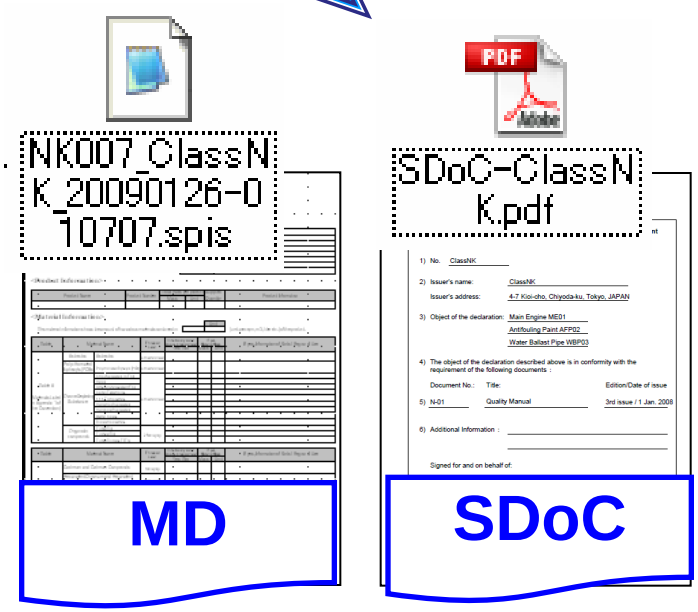
3. Steps for developing IHM Part I
   - <Step1> Collect MD and SDoC which made by MD-Tool and sent by e-mail
   - <Step2> Upload MD and SDoC tpo PrimeShip-INVENTORY. PrimeShip-INVENTORY automatically develops IHM.
   - <Step3> On-board Checking — ClassNK's Survey
   - <Step4> Finailize IHM Part I — ClassNK's Approval

Concept of PrimeShip-INVENTORY

Supplier

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



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

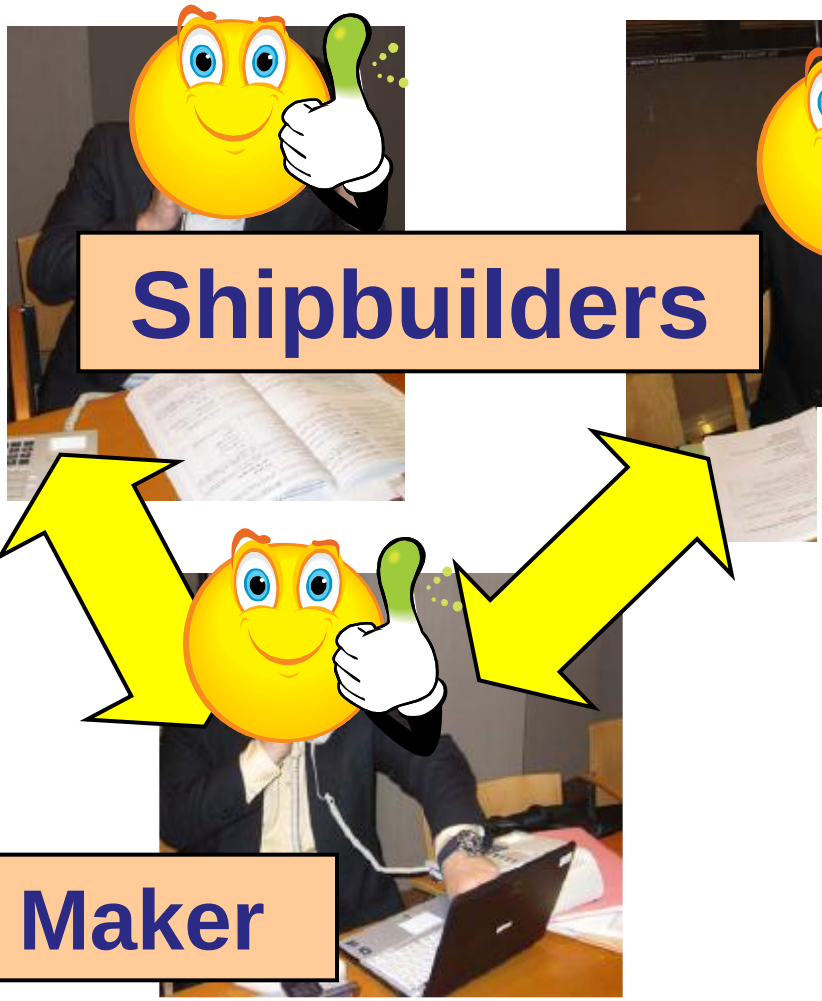
Easier!

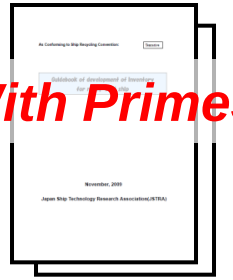
Inventory

Export the data for NK Approval/Owner

Activities of Trial Survey

3 -Step1. Collect MD and SDoC





With PrimeShip-INVENTORY

1. Arrange Seminar to shipbuilders, makers, etc.

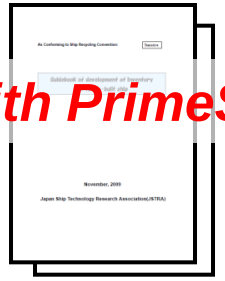
2. Visit shipbuilders and makers to explain how to develop IHM.

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> Finailize IHM Part I — ClassNK's Approval

Activities of Trial Survey

3 -Step2. Upload MDs and SDoCs



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

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- <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

Activities of Trial Survey

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> Finailize 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.

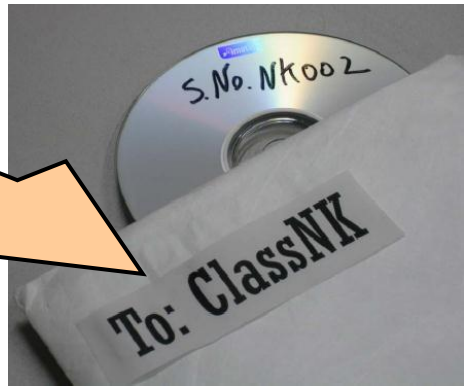
2. Visit shipbuilders and makers to explain how to develop IHM.

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> Finailize IHM Part I ClassNK' s Approval

Activities of Trial Survey

3 –Step4. Finalize IHM and submit to ClassNK



Finalize IHM and sending it to ClassNK

1. Arrange Seminar to shipbuilders, makers, etc.

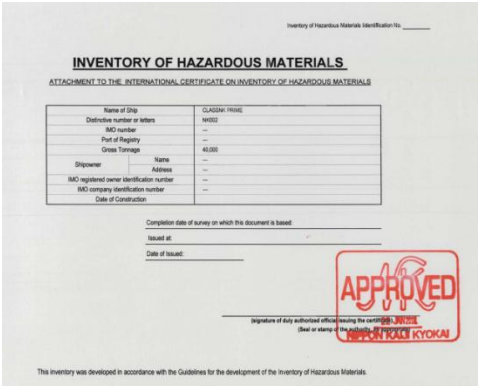
2. Visit shipbuilders and makers to explain how to develop IHM.

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

Activities of Trial Survey

3 –Step4. Finalize IHM and submit 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. Trials for Existing Ships

How to develop IHM for Existing Ship

- 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.

Steps of alternative way of making IHM

<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

Steps of alternative way of making IHM

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

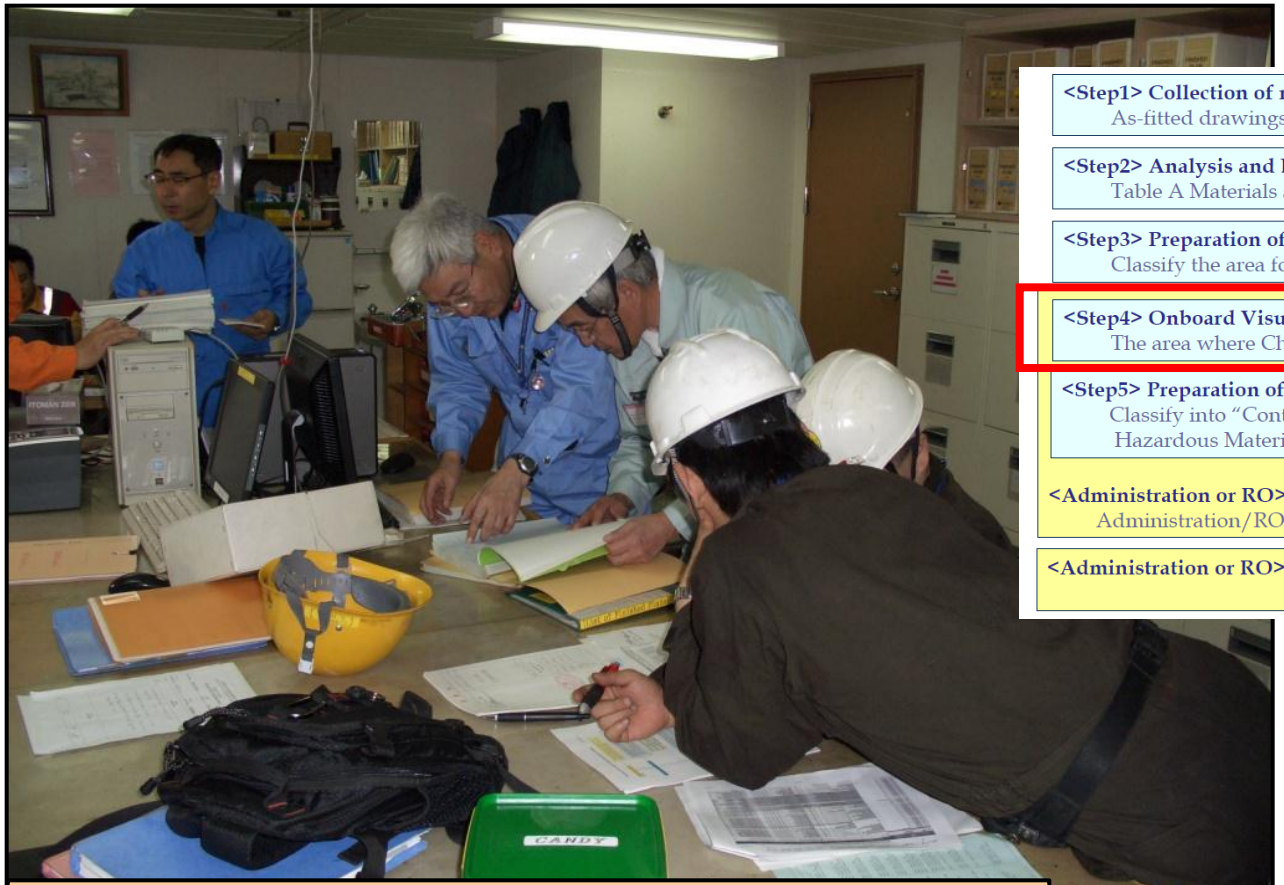
<Step5> Preparation of IHM - Part I
Classify into "Containing Hazardous Material" or "Potentially containing Hazardous Material" with quantity and location.

<Administration or RO> On Board Survey
Administration/RO has on-board survey through IHM and/or VSC plan

<Administration or RO> Approval of IHM

Steps of alternative way of making IHM

2. Onboard Check (Investigation of Plans onboard)



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

<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

Steps of alternative way of making IHM

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.

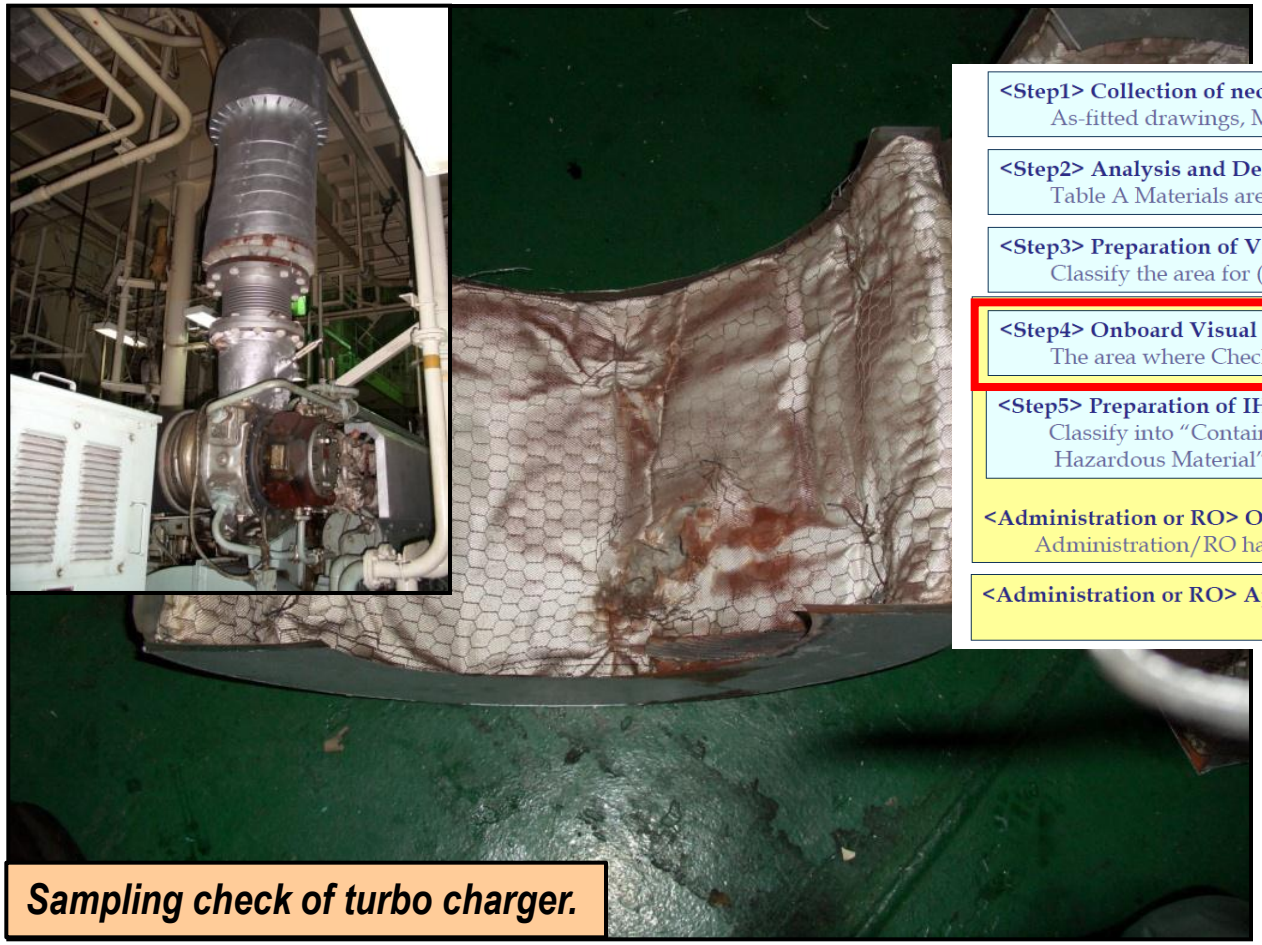
<Step5> Preparation of IHM - Part I
Classify into "Containing Hazardous Material" or "Potentially containing Hazardous Material" with quantity and location.

<Administration or RO> On Board Survey
Administration/RO has on-board survey through IHM and/or VSC plan

<Administration or RO> Approval of IHM

Steps of alternative way of making 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.

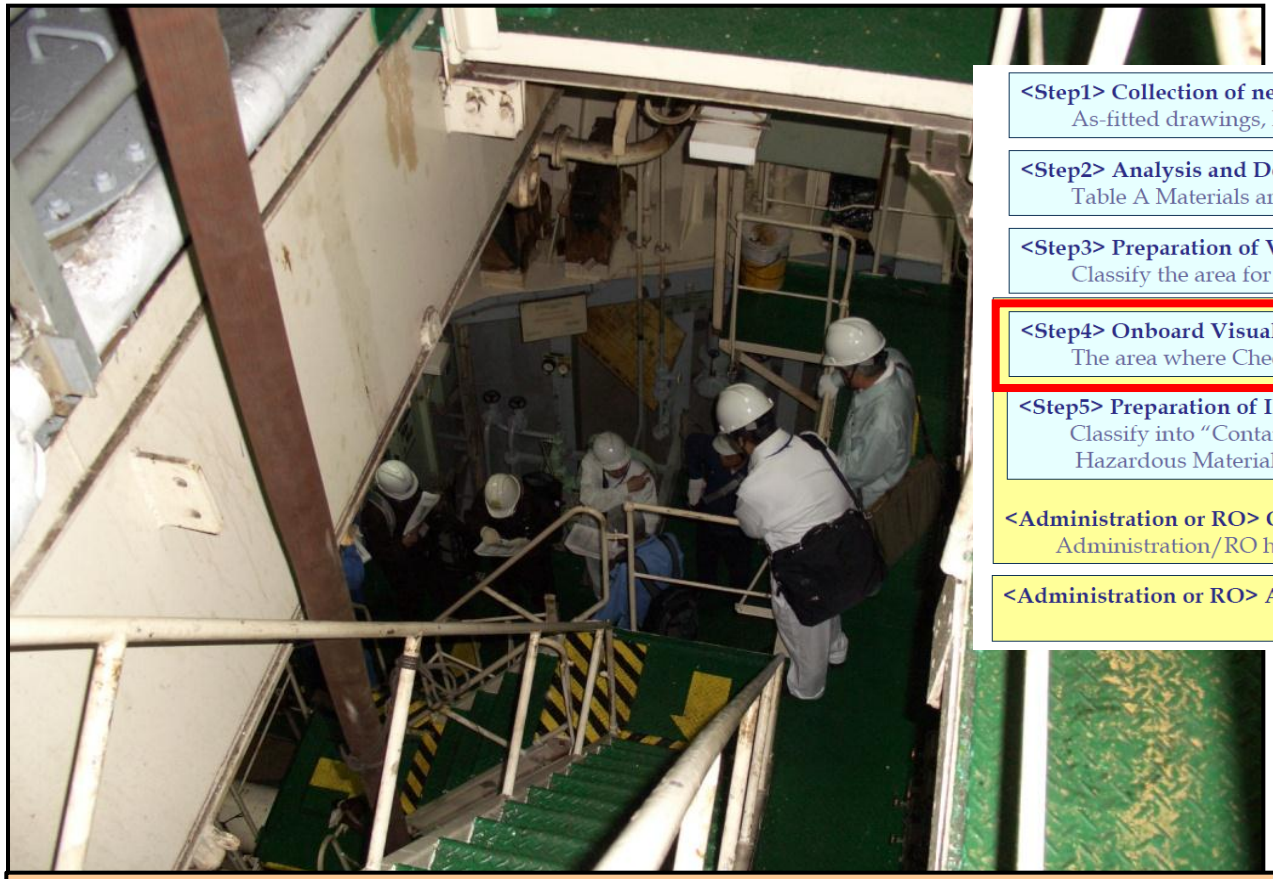
<Step5> Preparation of IHM - Part I
Classify into "Containing Hazardous Material" or "Potentially containing Hazardous Material" with quantity and location.

<Administration or RO> On Board Survey
Administration/RO has on-board survey through IHM and/or VSC plan

<Administration or RO> Approval of IHM

Steps of alternative way of making 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.

Steps of alternative way of making IHM

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.

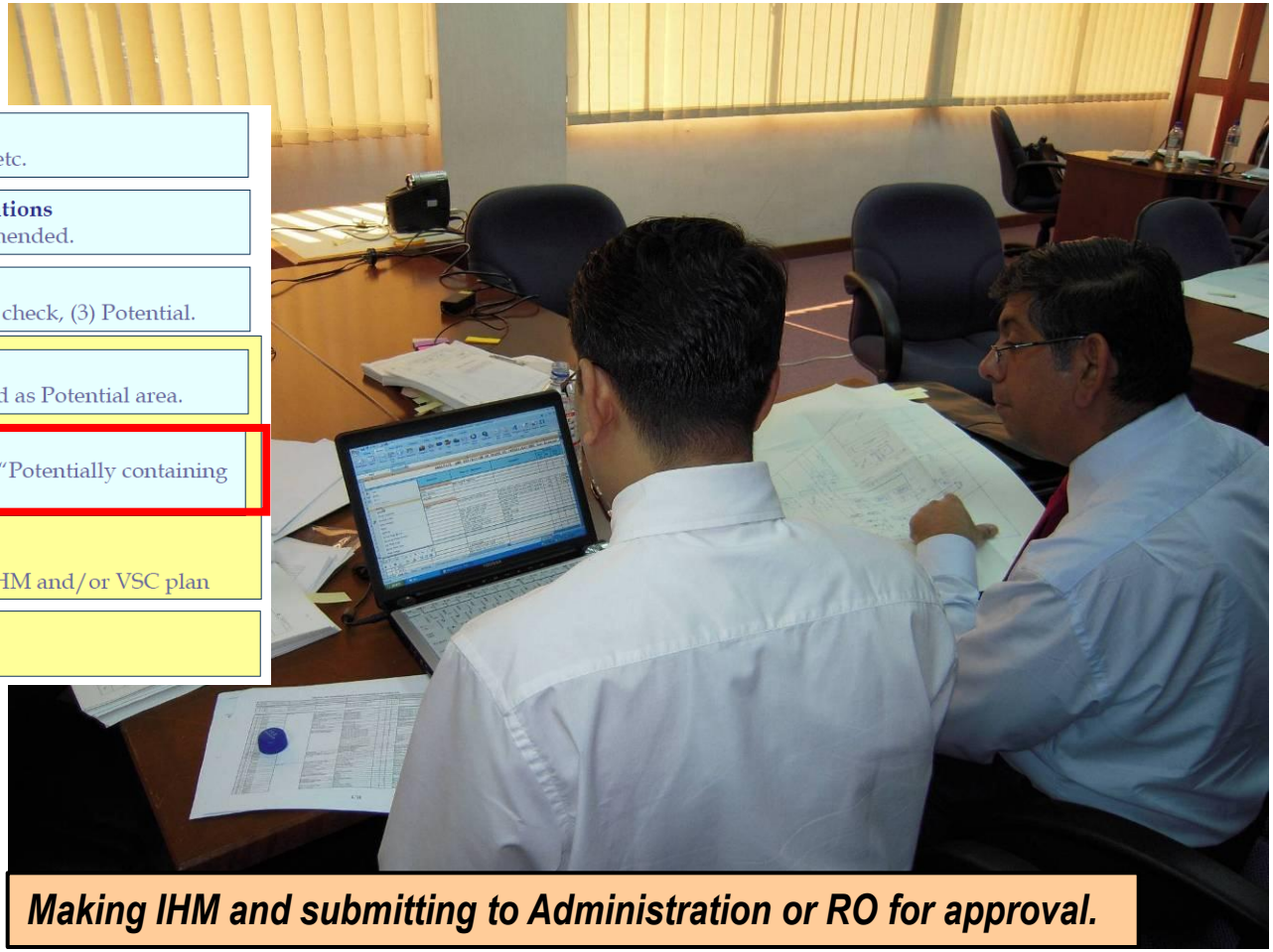
<Step3> Preparation of Visual/Sampling Check Plan
Classify the area for (1) Visual check, (2) Sampling check, (3) Potential.

<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

Inventry of Hazardous Materials : [redacted]

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

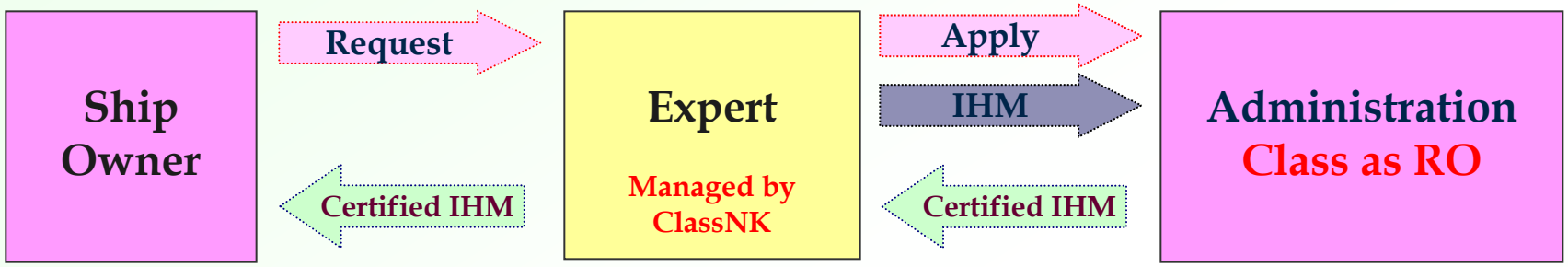
1.1 Paints and Coating Systems containing materials listed in Table A and Table B of Appendix 1 of the Guidelines

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. ・Then, sealer coat applied on January, 2004.	Boot top	TBT	To be written after the result of sampling analyses has been gotton.	kg	
2			Vertical bottom	TBT	To be written after the result of sampling analyses has been gotton.	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 gotton.	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)	Patrs 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	

How to develop IHM for Existing Ship



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

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

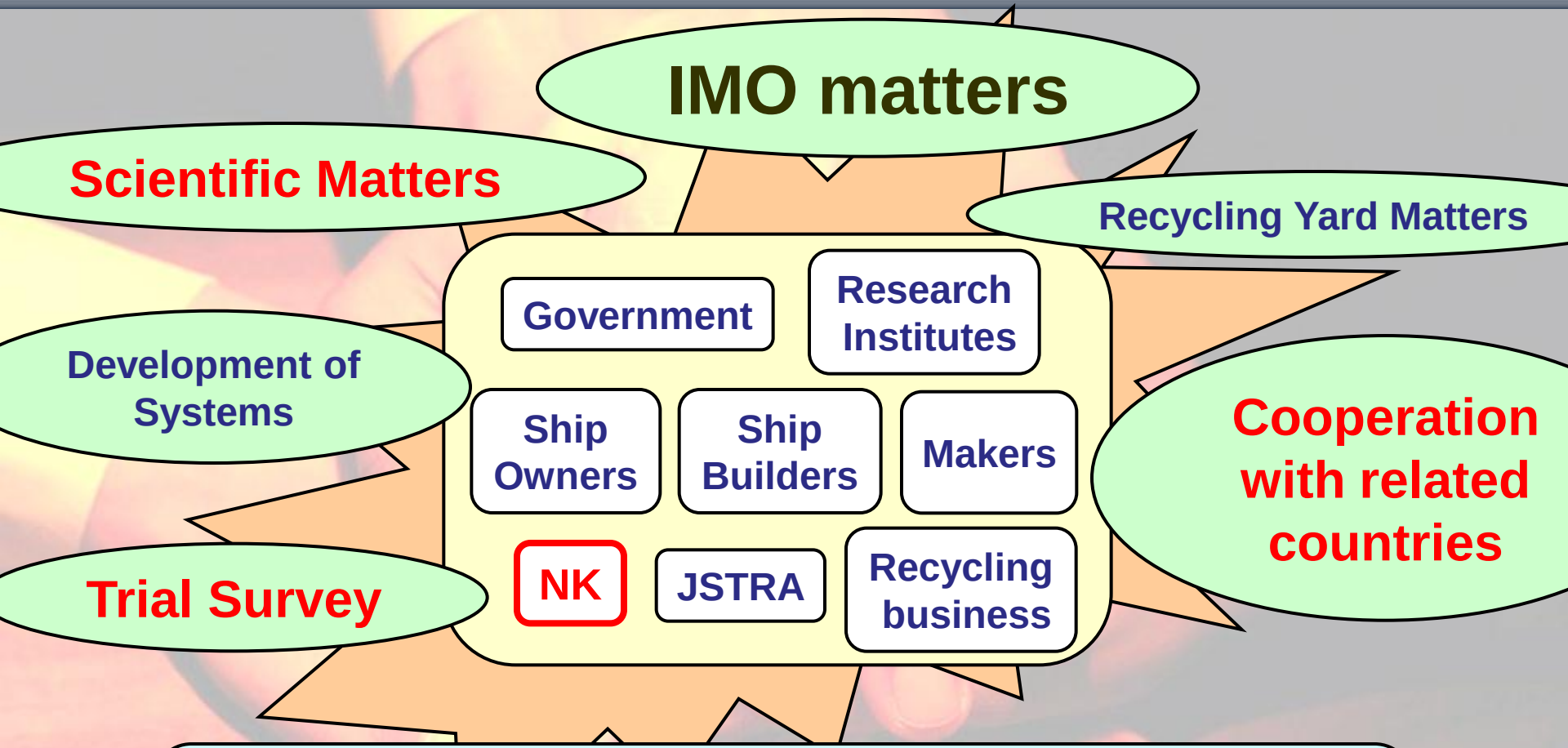
  ClassNK will manage expert function as a satellite company after privatization from NPO status - soon.

- **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

Cooperation in Japan



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

Cooperation in Japan and ClassNK

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

Cooperation in Japan and ClassNK

Activities in Japan for Developing IHM (2010-)

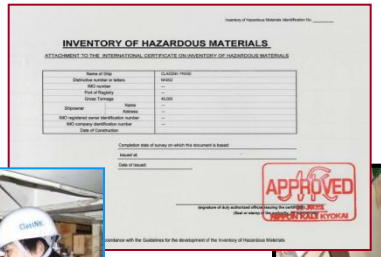
- ✓ **Muroran Project (Trial of Ship Recycling in Japan)**

…. And as a future plan;

- ✓ **Trial of International Ship Recycling**

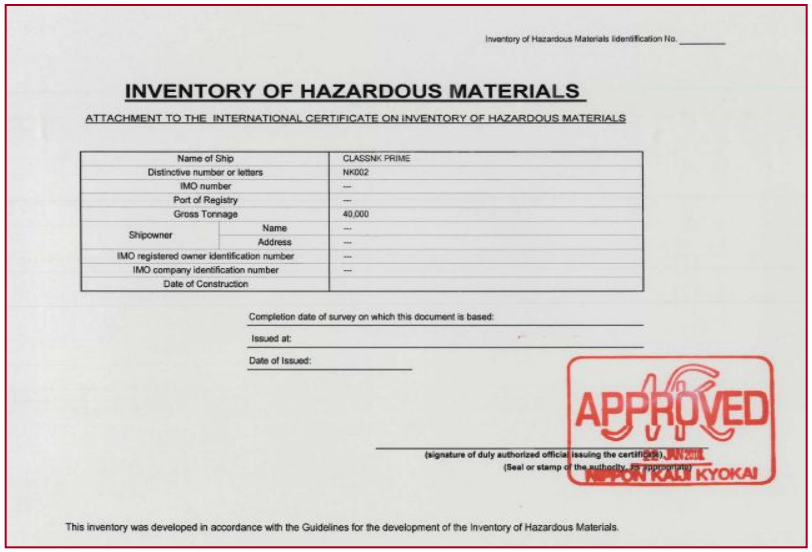
NK

- ✓ **All the Process under the Convention be taken.**



Statement of Fact

- ✓ **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: _____

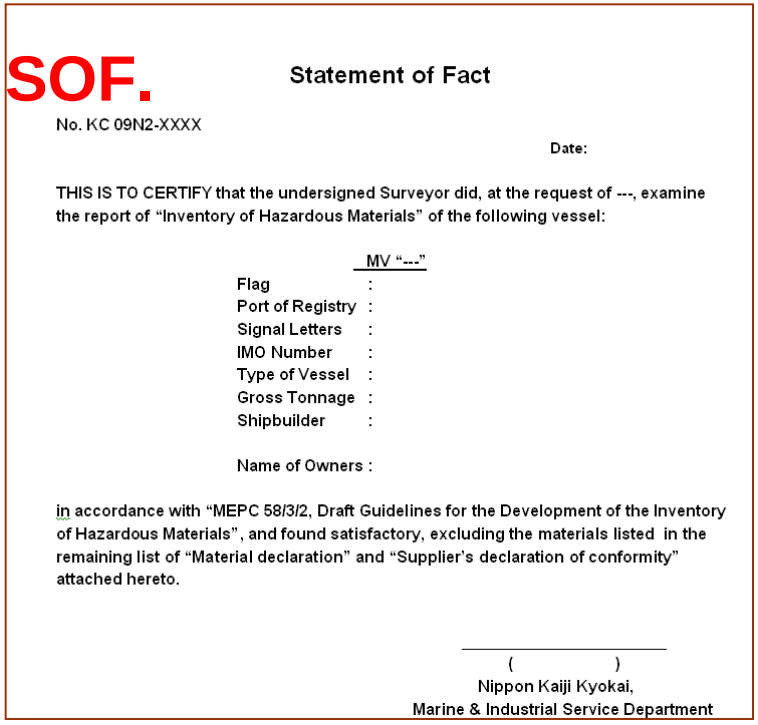
Date of Issued: _____

APPROVED

(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 :

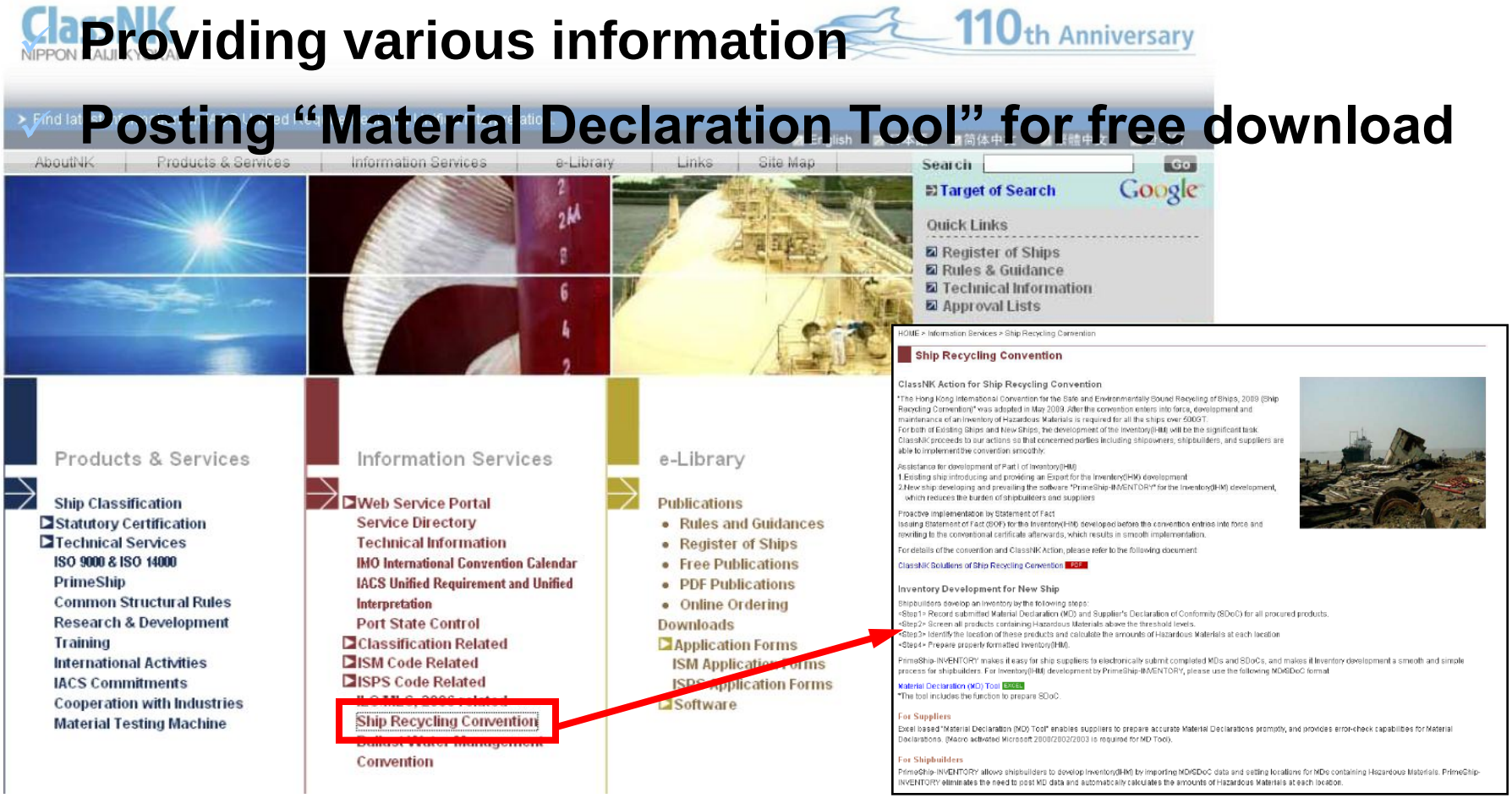
in accordance with "MEPC 58/3/2, Draft Guidelines for the Development of the Inventory of Hazardous Materials", and found satisfactory, excluding the materials listed in the remaining list of "Material declaration" and "Supplier's declaration of conformity" attached hereto.

( )
Nippon Kaiji Kyokai,
Marine & Industrial Service Department

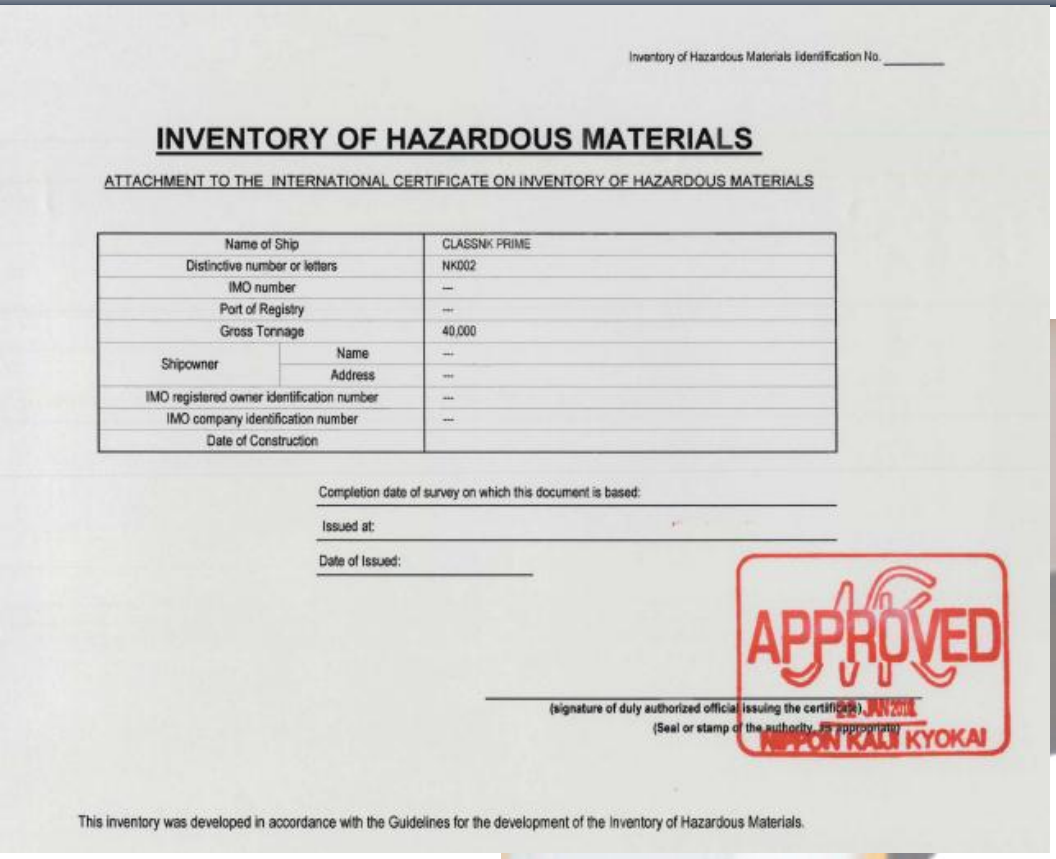
Information Service on Website

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**



Recycling of Ships



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	Address	---
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IMO company identification number		---
Date of Construction		

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

Issued at: _____

Date of Issued: _____

APPROVED
22 JAN 2018
NIPPON KAIJI KYOKAI

(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 !