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## GBS – IPR Development of the Ship Construction File (SCF) Industry Standards

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#### **Contents of presentation**

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#### **Overview of Ship Construction File**

- SCF shall be required in SOLAS II-1/3-10 (GBS).
- SCF shall include specific information on how the functional requirement of the GBS (Tier II items) applied in the ship design and construction.
- SCF shall be kept on board the ship and/or ashore.
- SCF shall be duly complied with Intellectual Property Rights (IPR).
- Highly IP sensitive information shall be stored at ashore archive center.
  - Yard plan
  - Lines plan
  - Bulky output of strength calculation
- ⇒ Cross industry team (Shipping industry, IACS, Shipbuilding, industry) has been developing the SCF industry standards toward practical operation.

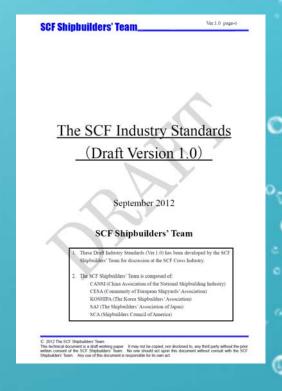
#### The way of development of the SCF Industry Standards

nent		Shipbuilders' Meeting at Shanghai
Development		Shipbuilders' Meeting at London (MSC90)
	October 2012	Cross Industry Meeting at Denmark
Discussion	June 2013	Cross Industry Meeting at London (MSC92)
Discu	7	Shipbuilders' Meeting at London (MSC92)
Finalization	18 October 2013	Tripartite Meeting at Tokyo (Reported by CESA)
	19 October 2013	Shipbuilders' Meeting at Tokyo
T T	7	

#### **Principle:**

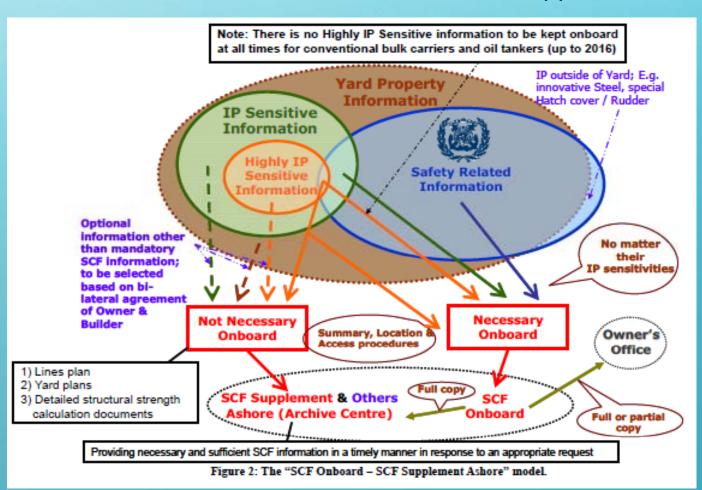
In accordance with four IMO documents – MSC.287 (87) (adopted at MSC May 20, 2010), MSC.290 (87) (adopted at MSC May 21, 2010), MSC.1/Circ.1343 (circulated at MSC June 2, 2010) and MSC87/5/4 (submitted to MSC February 9, 2010).

- Safe Operation Purpose
- Design Transparency
- Intellectual Property Rights (IPR)



#### **SCF Information:**

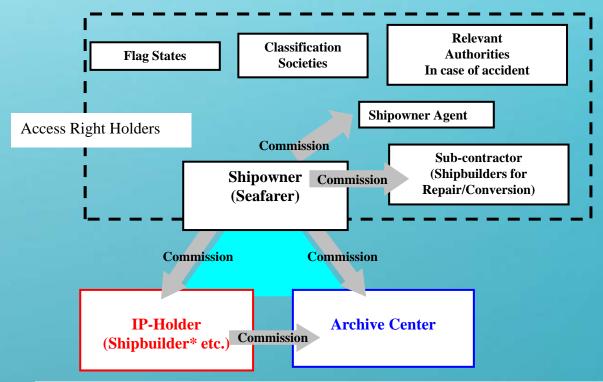
SCF Information = SCF Onboard + SCF Supplement Ashore



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#### **Characters:**

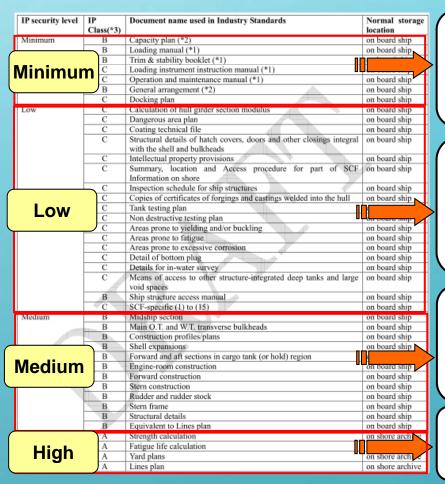
- Shipowner (Shipowner Agent, Seafarer, Sub-contractor, etc.)
- IP-Holder (Shipbuilder, etc.)
- Archive Center



Remarks \* Shipbuilders for repair/Conversion may also become an IP-Holder of the Update of SCF Information of the Ship.

#### **IP Security Level:**

4 Levels: Minimum, Low, Medium and High



- Capacity plan
- Loading manual
- General arrangement
- Operation manual
- etc.
- Hatch covers, doors, etc
- Detail of bottom plug
- Ship structure access manual
- etc.

- Structural drawings
- Bulky output of strength calc.
- Yard plans
- Lines plan

#### **IP Security Measures:**

Storage Format

Digital format in principle (Printed document provided, if necessary)

Authentication

Password and/or Biometric data authentication depends on IP Security Level

Printout

Minimum Level: All printed enable

Low Level : One page printed per job enable

Medium Level : Printed disable

Validity and Periodical Renewal

Expired validity for Electric Media Onboard

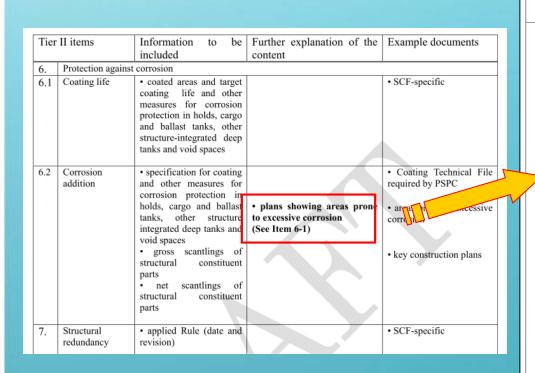
Access Log

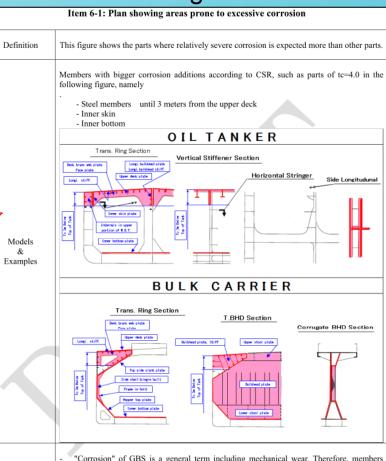
#### **Definition of SCF Information:**

Definition and examples of some SCF Information are introduced as supplementary explanation of SCF guidelines.

Models

Examples





#### **Directions for revised SCF Industry Standards**



IPR / QoS at Tripartite 2013

#### Contentious items of SCF IS finalization

- Style (legally-styled or flexible)
- Format of SCF documents (electr. or paper)
- Practicality of access procedures
- SCF IS implementation
- Specification for archive provider

These issues are connected to the legal status and protective measures and not to the content. SCF IS will harmonize and improve usability of the SCF Information.

#### **Directions for revised SCF Industry Standards**



IPR / QoS at Tripartite 2013

### New approach: restructuring, reduction, simplification and more flexibility

- ✓ Style 

  ⇒ user-friendly and flexible guidance.
- Format ⇒ electronic and paper, both protected
- Implementation ⇒ bilateral agreement or ship's safety management system (ISM Code ?)
- Archive provider ⇒ acc. to spec or R.O.
- ✓ solved ② compromise pending ? proposal needed

#### **Short-term Milestone**

#### **End of 2013**

The SCF Industry Standards (revised version) is distributed to cross industry

#### **Beginning of 2014**

**Cross Industry Meeting** 

#### May 2014

submit for information paper to IMO MSC93

#### **Long-term Milestone**

#### By 1 July 2016

cross industry issues the final package for GBS application (detailed examples of IT systems, etc.)

#### By end 2017

SCF Archive centers may start operation for GBS application

# Thank you for your attention