

The 5th ASEF, Busan, Korea

Session Report for Environment & Security issues

Dec. 2, 2011

In-Gyu Lee /
Session-2 Chair

Overview

□ 4 Topics and 8 presentations

- Ballast Water Management System
 - 3 presentations from Korea, Japan and China for Harmonization Evaluation, Risks of Ballast Water Treatment Systems and Development of Ballast Water Management System

- Anti-Piracy
 - 1 presentation from Korea for Anti-pirate system

- Energy Efficiency Design Index
 - 3 presentations from China, Japan and Korea for EEDI application, verification and related technical issues

- Air Pollution
 - 1 presentations from Korea for Recent discussions on air pollution

BWMS

□ Co-evolution in BWMS

- Prof. Ki tae Lhie, Kyung Hee University, Member of GESAMP_BWWG
- Emphasizes the harmonized communication for co-evolution resolving complicated Sampling and Analysis and Compliance for PSC.

□ Movement of establishing a GUIDELINE for Risk assessment of Active substances in BWTS on the PSPC Coating system

- Mr. Hideo Obata, SAJ-Namura Shipbuilding
- Introduces industry concern for adverse effect on coating system
- Points out no rules and criteria is available and propose develop appropriate guidelines

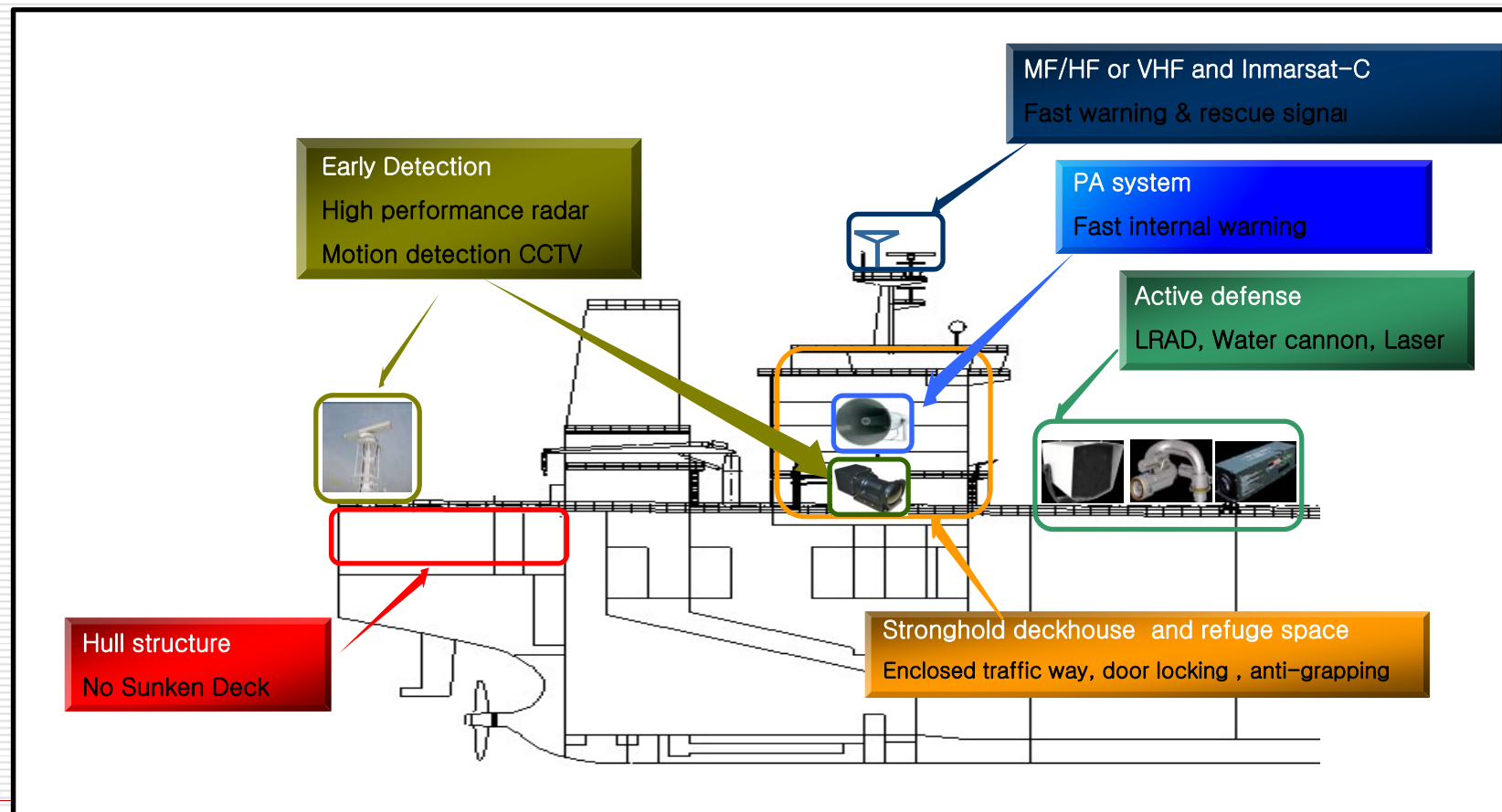
BWMS

- Development Status of Ballast Water Management System
 - Dr. Fu Hongtian, SunRui Marine Environment Engineering Company
 - Introduces BalClor™ BWMS which uses Filtration + Electrolysis + Neutralization technology
 - Some feedback and experiences are shared using Q&A time

Anti-Piracy

□ Anti-Pirate System

- Mr. Se il Park, KOSHIPA-DSME
- Introduces DAPS (DSME Anti-Piracy Systems)



EEDI

- Thinking in EEDI Trial application and verification of CANSI
 - Ms. Jie Lin, Shanghai Merchant Ship Design & Research Institute of CSSC
 - She presents observations for four factors calculating EEDI that is Wave Factor (fw), Power Redundancy Factor (fj), Reduction rate of required EEDI for very large vessels and IPR in EEDI verification.
 - China's point of view is that fw is not sufficiently useful to be put into EEDI regulation
 - Japan delegate informs that during force coming ISWG of MEPC for GHG will deal those matters and fw will be optional

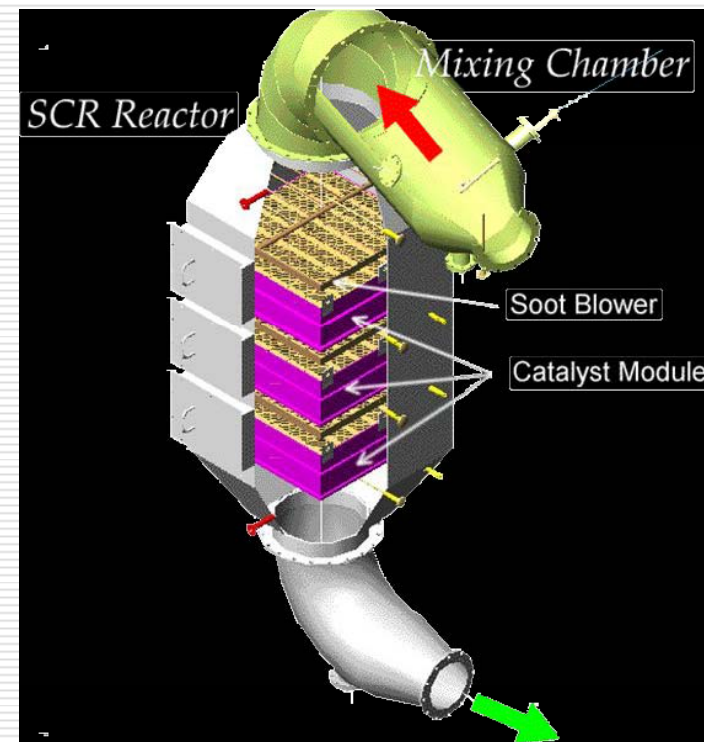
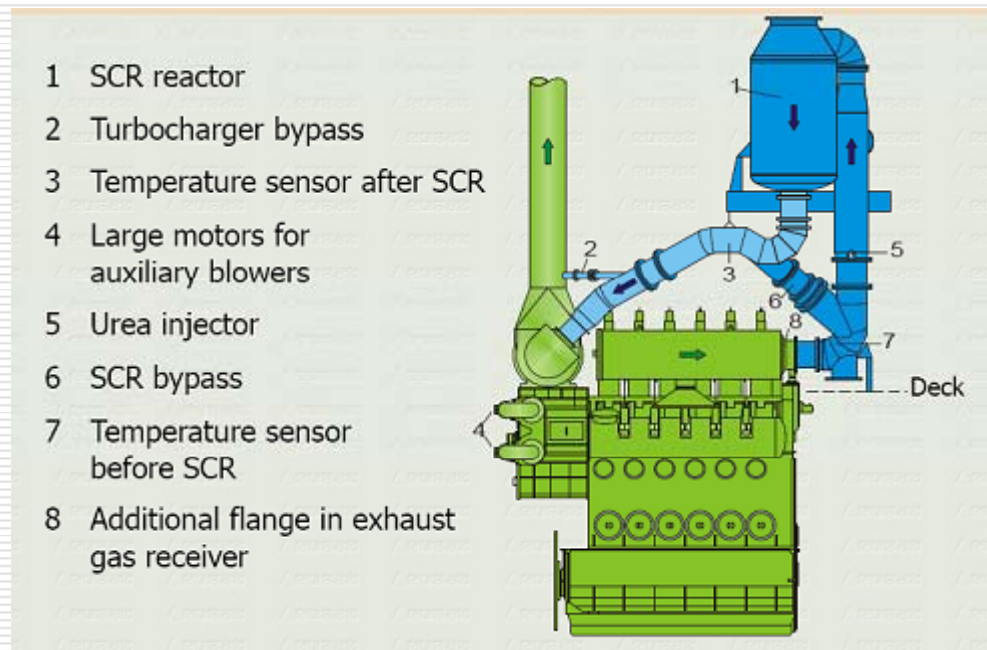
EEDI

- **Verification of EEDI at final stage Task and future direction**
 - Mr. Tsuyoshi Ishiguro, SAJ-IHI Marine United
 - Introduces issues to be clarified relating EEDI such as Unification of correction method for speed trial introducing Norway proposal for the revision of ISO15016 based on MARIN-STA Report
 - Also introduces ITTC special committee Development activity plan for the Tank test quality, Guideline for EEDI calculation and Correction method for speed trial
- **Technical issues on EEDI Application**
 - Mr. Gyoung yup Shin, KOSHIPA-Samsung
 - Addresses more consideration should be given for Ice class and shuttle tanks correction factors. And inform that related documents to be submitted to IMO.

Air Pollution

□ Air Pollution from Ships

- Mr. Hoi jun Kim, KR
- Introduces various regulations for prevention of air pollution. Especially for SO_x and NO_x reduction. And counter measures for reduction technology also presented.



Summary

- ❑ Recognition of the related problems and concerns of forth coming new environmental regulations and impact of these issues
- ❑ General consensus on the cooperative and harmonized response is important for grey area of the new requirements
- ❑ More efforts to be needed for incorporation of Asian shipbuilder's opinion to the international maritime society

**Thank you for excellent
presentations and active
involvement for the session**



**DAEWOO SHIPBUILDING &
MARINE ENGINEERING CO.,LTD.**