



BWM Convention – Lessons learned on the way to implementation
Ballast Water Management Summit - Athens, 09 June 2016

Charalampos Anastasakis B.Eng., M.Sc.
Senior Specialist, Piraeus Technical Support Office
Hellenic Lloyd's S.A.



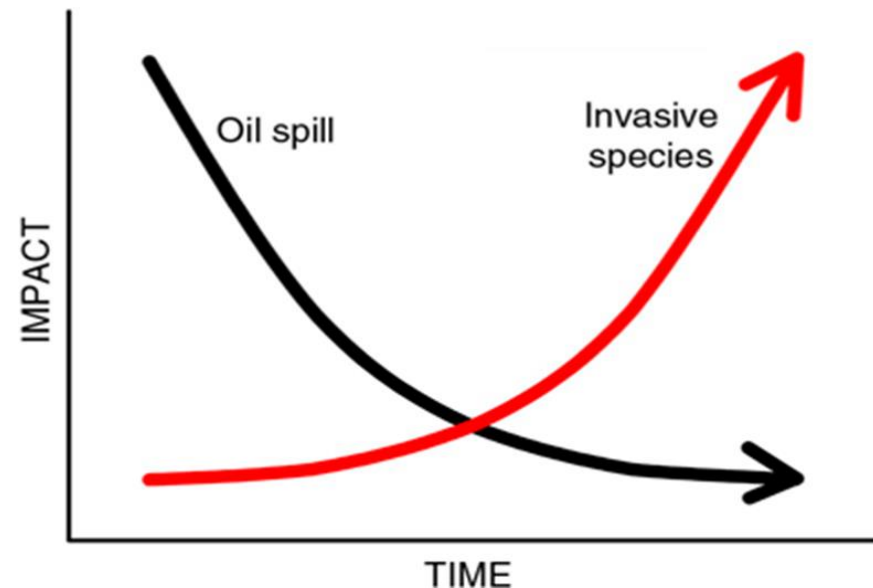
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Agenda

- MEPC 69 – Brief update on Ballast Water Management Issues
- BWM Convention – Lessons learned
 - National / Local Regulations
 - Type Approval Guidelines
 - The Retrofit Challenge



Source: globallast.imo.org

MEPC 69 Update

G8 Guidelines

- Amendment to be completed by MEPC 70.
- No incentive to install or test new systems until these are approved.
- Potential for commercial risk for price differential between MK I and MK II tested systems.
- MK I systems need to be installed before the new guidelines are approved.
- New guidelines primarily on the testing environment e.g. temperature and salinity levels.



No changes to the roadmap and early movers will not be penalised.

MEPC 69 Update



Implementation Schedule

- ◆ Draft amendments to Regulation B-3
- ◆ Advice from the Legal Office of IMO
 - ◆ Draft revised Regulation will simply refer to “renewal survey”
 - ◆ Definition of “renewal survey” to be provided by separate Resolution
 - ◆ Renewal Survey of the IOPP Certificate
- ◆ Review of the proposal to extend the installation deadline
 - ◆ Not supported in general
 - ◆ Invited Members who wish to pursue possible rescheduling to submit detailed information to MEPC 70 for discussion

Lessons Learned – Regulatory Framework



Ballast Water Management Regulations

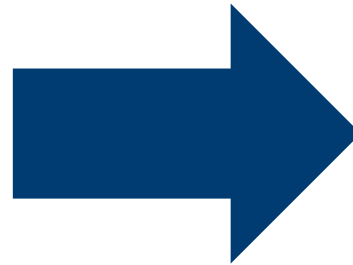


Australian Government
Department of Agriculture
and Water Resources



Lessons Learned – Type Approval Guidelines

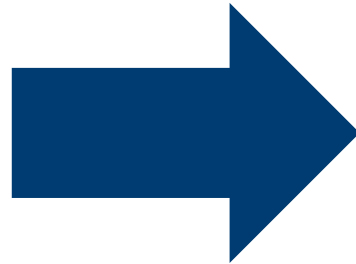
- Nature of the Guidelines
- Guideline Interpretation
- Guideline Application
- Lack of Transparency
- Limited Data



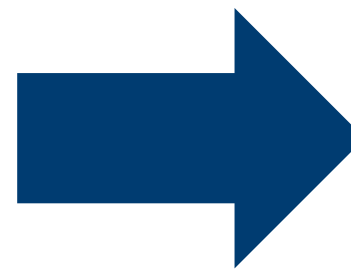
UNCERTAINTY!!!

Lessons Learned – Type Approval Guidelines

- Mandatory
- Robust
- Consistent
- Transparent

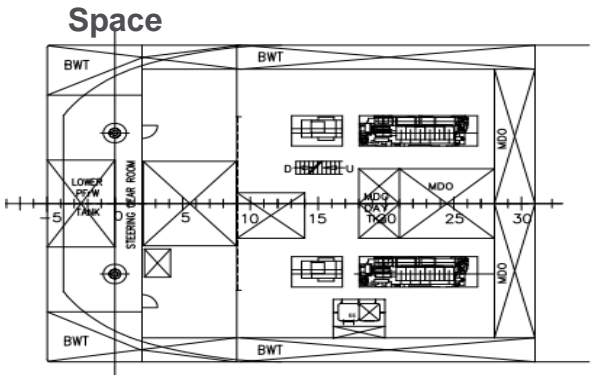


- Effective
- Reliable



ASSURANCE!!!

Lessons Learned – The Retrofit Challenge



Storage of chemicals



Air/water supplies



Power



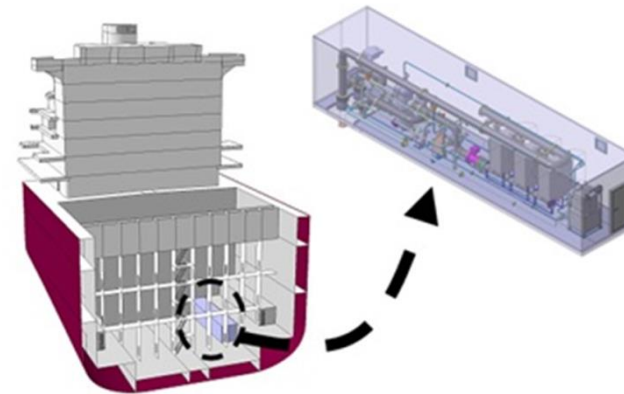
Piping & connections

Sampling arrangements

Lessons Learned – The Retrofit Challenge

Some important points

- On-board measurements (3D scanning)
 - Space evaluation
 - Access for installation
 - Avoid mishaps
 - Impact of BWTS installation
 - Ballast System
 - Cargo operations
 - Hazardous space categorisation
 - Maintenance Footprint
 - Automation
 - Controls/Alarms
 - Bypass Arrangements
- Air/Water Supply
 - Lighting
 - Fire Detection/Extinguishing
 - Gas detection



Courtesy Mitsubishi

Charalampos Anastasakis

Senior Specialist

Marine & Offshore / Piraeus Technical Support Office

T +30 210 4580913 E charalampos.anastasakis@lr.org

Hellenic Lloyd's S.A.

87 Akti Miaouli, Piraeus, 18538, Greece



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