

BW Collaborative IMO Update



Chris Wiley



TC/DFO

BW Convention

Requirement 30 Countries / 35% Tonnage

35 Countries / 28% of Tonnage

Convention in force 12 months after tonnage met

Canada has ratified – April 2010

Economy hindering ratification

EU Parliaments

ROI for Ship owners worldwide

Banks / lending for pollution equipment

IMO Meetings

MEPC 63

- **Basic Approval – 3**
1 rejected, 1 direct
- **Final Approvals – 5**
- **Type approvals 4**
- **BWMS available 22**
- **Global Market 74B**
- **G9 Methodology**
- **Non Confidential Inf**
- **Change G8 ?**
- **Sewage in BW
Tanks**

BLG 16

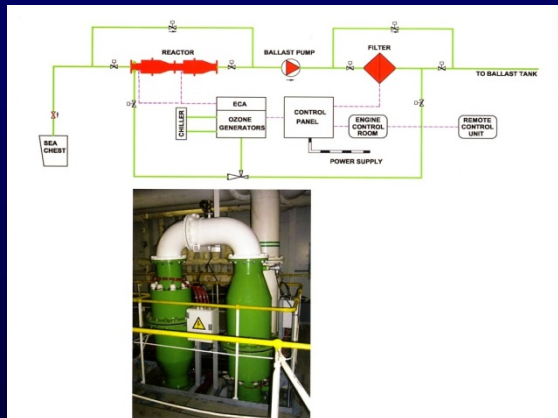
- **State of the Art – BW
Sampling and
Analysis**
report to
Subcommittee
- **FOC countries**
- **Exchange plus
treatment**
- **Evaluation of
Biofouling
Guidelines**

FSI Committee

Port State Control BW

- **EU paper on Port State Control Guidance**
- **Canada also head of task force at Paris MOU**
- **Sampling and Guidance on when and if to sample**
- **Technologies to sample – cell phone size**
- **Protocols for Detailed Analysis**
- **Complete FSI 2013**
- **Approval MEPC 2013**

BW Technology



- Availability increasing 22 systems type approved
- More systems / experience being reported
- 500+ installations worldwide
- recent installations on ULCC's
- Cold Water
- Fresh Water – Lloyds reports 28 systems (59 “should” work in FW
- G8 requires testing of 2 of 3 salinities – most do not test for FW \$\$
- Possible opening of G8

Type Approved BWMS

- Pureballast 1,2,2x
- Ocean Saver 1, 2
- JFE
- Blue Ocean Shield
- BalClor
- Electroclean
- Hyde Guardian
- NK-03
- Hi Ballast
- Unitor - off market
- Sedna – off market
- Ecochlor
- Optimarin
- Panasia
- Hitachi Clearballast
- RWO Cleanballast
- NEI
- Fine Ballast
- Purimar
- EcoBallast
- Sicure
- Techross
- Severn Trent

Great Lakes

- RWO – 3,000 cu metres /hour
- BalChlor – 3,000 cu metres / hour
- Siemens - 2,000 cu metres /hr Passed GSI
- Desmi OceanGuard – 6,000 cu metres / hr

Technologies that vendors have said will work in the Great Lakes but have not been tested (or failed) Lloyds indicates 28 BWMS with potential to work in Fresh Water

- Hyde Guardian 6,000 cu metres / hr Not Tested
- Ecochlor 8,000 cu metres / hr Not tested
- Pure ballast 2 2,500 cu metres / hour Failed GSI (Filters)
- Techross – 1, 500 cu metres / hr Failed (DFO/ salt) Testing to .5psu
- OceanSaver 1 – withdrawn from Fresh Water Tests by Manufacturer
- SEDNA – 3,000 cu metres / hr – Tested EC/ DFO - off market
- Unitor - 4,000 cu metres / hour - off market QA/QC

Guidelines for Approval of Ballast Water Management Systems (G8)

- **Dates from 2005 - MEPC 125(53)**
- **Revised 2008 – MEPC 174 (58)**
- **Agreed to keep revised Guidelines under review**
- **Suggested to consider further revisions at last MEPC**
- **Specific concerns – Fresh water**
Type Approval
- **Open to all**