



Pacific Ballast Water Group

USCG BW Regulations & International Activities Update

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Ballast Water Regulatory Projects

- **Penalties for noncompliance with mandatory aspects of the current voluntary BWM program (69 FR 32864)**
 - Final rule published 14 June 2004
- **Mandatory BWM (68 FR 44691)**
 - Final rule at OMB on April 7, 2004
- **Ballast Water Discharge Standards (68 FR 55559)**
 - Notice of Intent published September 26, 2003



Overview of National Mandatory BWM Program

- **No changes to the GL mandatory regime**
- **Who: All vessels inbound from outside EEZ**
- **What: BWM plan and BWM—4 options**
 - Exchange—empty/refill or 3X flow-through
 - Retain
 - Offload to approved facility
 - Treatment with approved system
- **When: Exchange**
 - 200 NM from any land (No depth restriction)
 - Safe for ship & crew & no detour or delay



Guiding Principles for BWD Standard

- **Scientifically sound**
- **Environmentally protective**
- **Enforceable**





Ballast Water Discharge Standard Issues

- **Concentration based**
- **Full range of organisms addressed**
- **Living organisms vs viable organisms**
- **Indicator microbes**
- **Microbes using a human health standard**



Ballast Water Discharge Standard Elements

- **Macrozooplankton & nekton**
 - 0.01 to 10 organisms/cubic meter
- **Protists including phytoplankton**
 - 0.01 to 10 organisms/milliliter
- **Microbial organisms**
 - # of colony forming units of indicator microbes



Shipboard Technology Evaluation Program *STEP*

- **Goals:**
 - Encourage installation of treatment technologies
 - Learn about performance of these systems
- **Application:**
 - Commitment
 - Experimental plan & prototype results
- **Participation:**
 - Continued results



STEP Details

- **Program Description: NVIC 01-04**
- www.uscg.mil/hq/g-m/mso/mso4/bwm.html





Environmental Technology Verification Program Update

- **Tech Panel met in April**
- **NRL KW test facility preparing for pilot scale tests**
- **Treatment test design still evolving**
- **Identifying characteristics & surrogates for challenge water**



IMO - A Busy 2004



- **BW Diplomatic Conference
9-13 February 2004**
- **MEPC 51
29 March-2 April 2004**
- **MEPC 52
11-15 October 2004**





Convention for the Management of Ships' Ballast Water and Sediments, 2004

Key Provisions for US:

- More stringent measures
- BWD standard on schedule of fixed dates
- Phasing out of BWE





Convention for the Management of Ships' Ballast Water and Sediments, 2004 (cont.)

- **BWD sampling for compliance under Port State Control**
- **Experimental testing of BWM systems on vessels**





IMO BW Convention Implementation

- **Entry into force: 30/35%**
- **13 Guidelines to be developed**
- **First BWD standard applicability is Jan 1, 2009**
- **Review of Standard at MEPC 53 in July 2005**
- **It's now June 2004-Panic!**



Remaining Technical Challenges

- **Verifying mid-ocean BWE**
- **Establishing a BW discharge standard**
- **Evaluating BWM systems**
- **Compliance verification for a BW discharge standard: Sampling and testing**



Planned Projects- Late 2004

- **Expert panel to discuss environmental consequences of alternative concentrations of a BWD standard**
- **Technical Workshop to discuss BW & sediment management practice possibilities for reducing risk of ANS introductions from NOBOBs**



USCG ANS Program Future

- **Domestic rulemakings**
- **International Convention**
- **R&D to support enforcement and evaluate treatment systems**
- **Coordinate with other stakeholders to develop & implement ANS prevention and control strategies**