2006 Great Lakes Ballast Water Management Exam Program

The St. Lawrence Seaway







Regulatory History in Great Lakes

- 1989 Voluntary Best Practices (Canada)
- 1993 Ballast Water Management Regulations(U.S.)
- 1999 Mandatory Ballast Water Reporting (U.S.)
- 2000 National Ballast Water Guidelines (Canada)
- 2004 Civil Penalties for Non Submission (U.S)
- Aug 2005 Best Management Practices for No Ballast On Board (NOBOB) vessels (U.S.)
- June 2006 Ballast Water Regulations including NOBOB requirements (Canada)





NOBOB Challenges

NOBOB No Ballast On Board

2005 NOAA/GLERL Research confirmed the risk of spread of ANS through residual ballast water and sediment in tanks once ballasted then de-ballasted in Great Lakes

70-80% of voyages into Great Lakes are NOBOB





NOBOB does not mean no risk of invasion!





Transport Canada / U.S. Coast Guard / St. Lawrence Seaway

ERI



What are NOBOBs carrying?











Great Lakes Ballast Water Working Group

•U.S. Coast Guard
•Transport Canada
•St. Lawrence Seaway Management Corporation
•St. Lawrence Seaway Development Corporation



Great Lakes Ballast Water Working Group Mission Statement

Reduce the risk of introducing Aquatic Invasive Species into the Great Lakes via ballast water by enforcing existing regulations and educating mariners in Best Management Practices





Joint Ballast Water Management Exam Program

Ballast Water Management Practices



Ballast Water Reporting



Salinity Testing of Tanks



Ballast Water Management Practices



Review records, logs Interview vessel crew







Joint Agency BWM Exam Report

One job-aide is used by all agencies Questionnaire includes questions that cover requirements of all 4 jurisdictions Agencies share results with each other Enforcement rights retained by each agency







Great Lakes - St. Lawrence Seaway System Joint Agency Ballast Water Management Exam Report

To be filled out by the attending inspectors from

Canada, St. Lawrence Seaway Corporations, or United States



1. SHIP NAME	2. FLAG		
3. IMO No	_4. LAST PORT OF CALL		
5. OWNER	6. MANAGER (TECHNICAL)		
7. ARE COPIES OF THE FOLLOWING PUBLICATIONS ON BOARD?			
a) IMO RESOLUTION A 868 (20):		YES 🗆	NO 🗆
 b) US 33 CFR 151 SUBPARTS C & D - BALLAST WATER MANAGEMENT FO NON INDIGENOUS SPECIES IN THE GREAT LAKES (C) AND WATERS O 	OR CONTROL OF F THE UNITED STATES (D):	YES 🗆	NO 🗆
 r) 70 FEDERAL REGISTER 51831 - BALLAST WATER MANAGEMENT FOR SHIPS ENTERING THE GREAT LAKES THAT DECLARE NO BALLAST ON BOARD: 		YES 🗆	№ 🗆
d) CANADA'S BALLAST WATER CONTROL AND MANAGEMENT REGULA	ATIONS:	YES 🗆	NO 🗆
e) TP 13617 E - A GUIDE TO CANADA'S BALLAST WATER CONTROL AN	D MANAGEMENT REGULATIONS :	YES 🗆	NO 🗆
f) THE SHIPPING FEDERATION CODE OF BEST PRACTICES FOR BALLAS	T WATER MANAGEMENT:	YES 🗆	NO 🗆
8. IS THERE A BALLAST WATER MANAGEMENT PLAN (BWMP) ON BOARD? (IF	NOT PROCEED TO QUESTION 19)	YES 🗆	NO 🗆
9. THE BWMP IS PROVIDED BY: OWNER MANAGER OT	HER	_	
10. THE BWMP WAS REVIEWED BY: FLAG STATE	CLASS		
11. IS THE BWMP SPECIFIC TO THIS SHIP?		YES 🗆	NO 🗌
12. DO THE SENIOR OFFICERS DEMONSTRATE A WORKING KNOWLEDGE OF THE BWMP?		YES 🗆	NO 🗆
13. DOES THE BWMP CONTAIN DETAILED INSTRUCTIONS FOR SUBMITTING BALLAST WATER REPORTS?		YES 🗆	NO 🗆
14. DOES THE BWMP ACKNOWLEDGE SPECIAL REQUIREMENTS FOR GREAT LAKES ENTRY?		YES 🗆	NO 🗆
15. DOES THE BWMP PRESCRIBE BEST MANAGEMENT PRACTICES?		YES 🗌	NO 🗌
16. DOES THE BWMP CONTAIN PROCEDURES FOR FULL EXCHANGE?		YES 🗆	NO 🗆
17. DOES THE BWMP CONTAIN PROCEDURES FOR MID OCEAN FLUSHING OF EMPTY TANKS?		VES 🗆	NO 🗆

Applicability Section explains different requirements

The following questions are directly related to regulations currently in force:

United States:

33 CFR 151 – Subpart C and D. Ballast Water Management for Control of Non Indigenous Species in the Great Lakes (C) and Waters of the United States (D).

#'s 8. 11. 12. 13. 14. 15. 16. 18. 21. 22.

Canada:

Ballast Water Control and Management Regulations (2006)

#'s 8. 10 (for Canadian Ships) 13. 14* 15*. 16. 17. 18. 19*. 20*. 21*. 22*. 23*. 24*. 25.

Seaway Practices and Procedures.

#'s 13. 14. 15*. 16*. 18*. 19*. 20*. 21*. 22*. 23*. 24*.

* By reference to The Shipping Federation of Canada Code of Best Practices for Ballast Water Management

NOBOB Salinity Testing

If enough residual is present, a sample is raised to the deck and sampled for salinity using a refractometer

Looking for 30 ppt salinity residual water





09/23/2006



Ballast Water Working Group Objectives

- Continue 100% exams of ballasted vessels
 Increase number of NOBOB exams
 Track adherence to Best Management Practices
 Decrease percentage of NOBOB tanks with low salinity residuals
 Increase percent compliance with management
- Increase percent compliance with management requirements





Ballasted vs. NOBOB







NOBOB Exams Goal: Increase the number of NOBOB exams



2004

0 NOBOB Ship Exams

2005

147 NOBOB Ship Exams

Average 18.3 exams per month

2006 Mid-Year Mar- July 140 NOBOB Ship Exams

Average 23.3 exams per month





2006 NOBOB Exam Results

NOBOB Reported Flushed





 Vessels inspected = 140 (67%)

 Example: M/V Sofia





NOBOB TANK EXAM RESULTS

Goal: Decrease number of untreated tanks

Total # Tanks Inspected: 2005: 3049 2006: 2845







Ballast Water Management

- Documentation Exam administered by St. Lawrence Seaway on records, logs and plans = 161
 - Percentage with minor deficiencies = 38%
- Enforcement Action issued by USCG for missing plans = 5 (3%)
- Letter of Retention issued by USCG for non-compliant ballast water = 5 (9%)
- Increased outreach & coordination with shipping companies and agents





Future Plans



Build common data base Harmonize reporting requirements Continue Joint Agency Exam Form Improve vessel targeting and analysis Transport Canada / U.S. Coast Guard / St. Lawrence Seaway



