

# Ballast Water Management System Familiarization and Inspection Training Program

Presented by: Simplify Ballast and EnviroManagement, Inc.

Australian Government Department of Agriculture, Fisheries and Forestry

April 9 - 11, 2024, Fremantle, WA



# Objectives of the Training

Deliver a comprehensive training program based on an initial assessment of DAFF staff knowledge of BWMS and identified experience gaps that builds Biosecurity Officer confidence in the regulatory background and technical inspections of BWMS to support enforcement in Australia.



## Regulatory Background

Detailed review of the BWM Convention history, implementation schedule and ratification challenges, regulatory instruments under the Convention, and linking to the Australian Biosecurity Act 2015.



## Technical Details of BWMS Design

Comprehensive information on BWMS design and approval processes for different technology types, understanding BWMS alarms, and steps for issues such as Challenging Water Quality or contingency measures.



## Enforcement & Inspections

Review of how inspections and PSC is envisioned under the Convention, Ballast Water Record Books, Ballast Water Management Plans, key BWMS inspection points and identifying common BWMS problems, and PSC options for compliance monitoring.





Module A: The Ballast Water Management Convention

Module B: Types of BWMS

Module C: Enforcement Provisions

Module D: Ship visit

Module E: Common Operational Issues with BWMS

Module F: Inspection and Sampling

Module G: **Comprehensive Test**

# Agenda

(example)

- How are BWMS Designed?
- Introduction to UV-based BWMS
- Introduction to Electrochlorination-based BWMS
- Introduction to Other Types of BWMS



# HOW DID THE CONVENTION ENVISION INSPECTIONS

Section E of the BWM Convention outlines a number of different types of inspections:

## E-1.1 Periodic Inspections

Initial (Commissioning) Surveys, Renewal surveys at intervals not to exceed 5 years, annual surveys, and intermediate surveys within 3 months of the second or third annual survey

## E-1.2 Ships not subject to periodic inspections

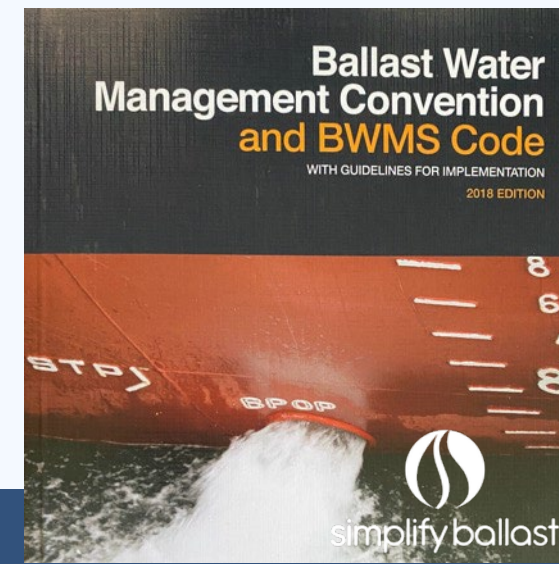
Administrations to set up inspections for ships in their waters without BWM certificates or periodic inspection requirements

## E-1.3 Port State Control

Additional to make sure that vessels are compliant with the requirements of the Convention

## E-1.7 Accidents or Defect Repairs

Administrations are authorized to inspect vessels if there is an accident or defects noted that may impact the ship's ability to proceed without harm to the environment or human health



# BALLAST WATER RECORD BOOK



What is the ballast water record book?



What types of entries must be made in the ballast water record book?



Storing and validating ballast water record book entries



Examples of proper ballast water record book entries



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