First look at implementing ballast water discharge performance standards in California

Pacific Ballast Water Group March 29, 2022

> California State Lands Commission



California's Ballast Water Requirements Overview

- Background
- New Regulations
- Implementing the New Requirements
- Future Considerations

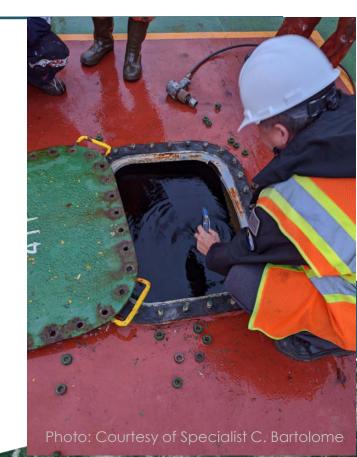
California's Ballast Water Requirements Background

- The purpose of the Marine Invasive Species Program
- Pre-2022 Ballast Water Management Requirements
- Performance Standards and the 2018 Commission report to the Legislature
- 2019 law AB 912

California's Ballast Water Requirements

New Regulations and Statute

- Implements federal ballast water discharge performance standards and schedule
- Authorizes the Commission to collect ballast water samples for research and compliance
- Requires ballast water treatment systems monitoring if used
- Alternatives



California's Ballast Water Requirements Implementing the Federal Standards

What are the federal ballast water discharge performance standards that California is implementing?

California's Ballast Water Requirements Implementing the Federal Standards

Organism Size Class	U.S. Federal Ballast Water Discharge Performance Standards
Organisms greater than or equal to 50 micrometers in minimum dimension	Fewer than 10 organisms per cubic meter
Organisms less than 50 micrometers and greater than or equal to 10 micrometers	Fewer than 10 organisms per milliliter (mL)
Indicator microorganisms: a)Escherichia coli b)intestinal enterococci c)toxicogenic Vibrio cholerae (serotypes O1 and O139) must not exceed	 Must not exceed: a) A concentration fewer than 250 colony forming units (cfu) per 100 mL b) A concentration fewer than 100 cfu per 100 mL c) A concentration less than 1 cfu per 100 mL

California's Ballast Water Management Requirements Implementing the New Requirements

Determining which vessels are subject to the new requirements

- What is the original compliance date or extended compliance date?
- Did the vessel install an AMS prior to the original or extended compliance date and AMS?

California's Ballast Water Management Requirements Using a Public Water Source

Can a vessel use a public water source from anywhere or just from the United States?

Vessels can use a public water source as long it meets the criteria of a public water system as defined in Title 40 of the Code of Federal Regulations Section141.2 (7-1-20 Edition) California's Ballast Water Management Requirements Malfunctioning or Inoperable BWTS

What if the vessel is subject to the performance standards and the vessel's installed BWTS is not operating properly?

- Vessels must contact the Commission MISP staff @ <u>cslc.mepdmisp@slc.ca.gov</u> if the vessel is due to arrive at a California port and the BWTS is not operating properly.
- May issue alternative after consulting with the USCG

California's Ballast Water Management Requirements Implementing the New Requirements

Webinars on the new requirements https://youtu.be/bOkejDHUtnY (December 16, 2021)

https://youtu.be/9CPgyp3KYvw (December 16, 2021)

https://youtu.be/Fgys3ILYmP4 (November 18, 2021)

Developed a list of FAQs for the new requirements. https://www.slc.ca.gov/marine-invasive-species-program/ballastwater-discharge-performance-standards-faqs/

California's Ballast Water Management Requirements Information for Vessels

https://www.slc.ca.gov/marine-invasive-species-

program/information-for-vessels-arriving-at-california-ports/

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	Updates on COVID-19 can be found in the Commission's CO	VID-19 Resource Center	×	
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		D E Constant	s& Information ▼ Programs ▼ Laws & Search	
	Information for Vessels A	rriving at California Por	ts	
	Feb 10, 2022 Marine Invasive Species Program		MISP Reporting Portal	
	Information Sheets	Maps	info for Vessels Arriving at CA Ports	
	General Information (March 2021)	Pacific Coast Region		
	Ballast Water Management (January 2022)	Atlantic with World EEZs		
	Biofouling Management (January 2022)	Pacific with Pacific Coast Region & World EE	Information & Resources	
	Ballast Water Discharge Performance Standards (July 2021)	Southern Pacific Coast Region Guide	Marine Invasive Species Program Home	
	 FAQs: Ballast Water Discharge Performance Standards (February 2022) 		Other Programs & Partners	
	Reporting & Recordkeeping (January 2022)		reports research at reservoirs	
	Biofouling Webinar (October 2018)			
	• Biofouling Guidance Document (September 2017)		Laws & Regs	

Public Resources Code – Division 36 –

California's Ballast Water Management Requirements Assessing Compliance – Inspections

Inspections

- All discharging vessels are High priority for inspection
- Mandated to inspect (25%) of all arrivals
- 2 Checklists (old and new)

Recordkeeping and Ballast Water Treatment System performance requirements

These documents and records must be kept on board the vessel and be available during inspections. Effective January 1, 2022, the records must be maintained on board for 2 years. The records will be used to assess compliance with the corresponding laws.

WITH	ine corresponding laws.	
	Copy of 1 of the following: • U.S. Coast Guard (USCG) Type Approval certificate: • Alternative Management System (AMS) letter from USCG; or • USCG lotter extending the vessel's compliance date.	Cal. Code Regs., tit. 2, § 2297, subd. {c}*
	Manufacturer's technical guides and publications tha for the vessol's BWTS. For example, the OFFRATION, MAINTENANCE, and SAFETY MANUAL (OMSM).	Pub. Resources Code, § 71205, subd. (n)**
	Records of the following: • System Design Limitations (SDLs) and Operational Parameters; or • Sensor and control equipment calibrations.	Cal. Code Regs., fit. 2, §§ 2295, 2297, subd. (a)* Pub. Resources Code, § 71205, subd. (n)(4)(D)**
	Printed or electronic records of any Biologica Monitoring including the dates, who performed the tests, and testing methods.	Col. Code Regs., tit. 2, § 2297 (b)*
	Printed or electronic records of the procedures to follow in case of BWTS maifunction.	Cal. Code Regs., tit. 2, § 2297, subd. (d)* Pub. Resources Code, § 71205, subd. (n)(4)(3)**
	Printeo or electronia Material Safety Data Sheats (MSDS) for any chemicals used as part of the BWTS process, MSDS are now colled Safety Data Sheets (SDS).	Pub. Resources Cope, § 71205, supp. (h)*
	Printed or electronic records having the DATE, TIME, AND LOCATION of the starting and stopping of the BWTS for the purpose of treating balast water.	Cal. Code Regs., tit. 2, § 2297* Pub. Resources Code, § 71205, subd. (h)*
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Note: This list is intended to be a summary of the require documents and records. For		

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California's Ballast Water Management Requirements Assessing Compliance – New Checklist

New Checklist

- Determining if a vessel is subject to the new requirements
- Checking records and documents

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California's Ballast Water Management Requirements BWTS Recordkeeping and Monitoring

Material Safety Data Sheets for BWTS chemicals	Must be maintained on board the vessel	
BWTS technical guides, publications, and manuals	Must be maintained on board the vessel	
BWTS performance info		
Date, time, and location the BWTS used		
System malfunctions	Must be maintained on board the vessel	
Scheduled and unscheduled maintenance		

California's Ballast Water Management Requirements Ballast Water Treatment System Use

Functionality Monitoring	2 years of printed or electronic records	
Calibration Activities		
Biological Monitoring	Printed or electronic records of any monitoring within the past 2 years including who, when, and how	
Ballast Water Treatment System Type Approval Certificate	Must be maintained on board the vessel	
Equipment Malfunction Procedures	Must be maintained on board the vessel	

California's Ballast Water Management Requirements Assessing Compliance – New Checklist

New Checklist

- Did the vessel use an alternative?
- Is the ballast water treatment system on and working as intended?

Recordkeeping and Ballast Water Treatment System performance requirements

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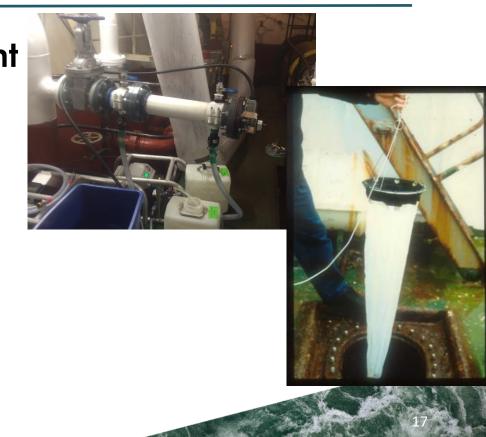
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California's Ballast Water Management Requirements Assessing Compliance – New Checklist

Is the ballast water treatment system on and working as intended?

- System Design Limitations
- Alarms



California's Ballast Water Management Requirements Enforcement

Will California issue violations or penalties for vessels found to be noncompliant with the ballast water discharge performance standards?

- Developing enforcement regulations updates to include performance standards and biofouling
- The current enforcement regulations can be found at <u>https://www.slc.ca.gov/misp/</u>

California's Ballast Water Management Requirements Implementing the New Requirements – Future Considerations

- Collecting Samples Working with Golden Bear Research Center
- Logistical Challenges with Sampling
- Pre-arrival information on Ballast Water Management Report?
- How well are systems working?

www.slc.ca.gov THANK YOU & QUESTIONS

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