



## Ballast water management – regulations are tightening

From September 2024 all vessels subject to the Ballast Water Management Convention must have an approved ballast water treatment system installed onboard. Is your ship ready for tighter regulations?

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Good management of ballast water is critical to prevent the spread of invasive aquatic species (see fact box below). To that end, the [Ballast Water Management \(BWM\) Convention](#) was adopted and eventually came into force in 2017. With it, came two primary regulations, both intended to improve ballast water management: The D-1 regulation covers *ballast water exchange*, that is flushing ballast water tanks in open seas, while the D-2 regulation covers *ballast water treatment*, that is the removal and destruction of biological organisms from the ballast water before it is discharged.

From 8 September 2024, all vessels subject to the BWM Convention (all ships over 400 GT, with some exceptions and additions) must meet the performance standards contained in regulation D-2, meaning that vessels without a ballast water treatment system must install an approved system before the deadline.

### **What do ship operators need to do?**

Ship operators that have not made their decision on the installation of ballast water treatment systems are advised to start the preparatory work as soon as possible. The 8 September 2024 deadline is nearing and there are multiple decisions that should be made in order to ensure compliance. Below are some key elements of the preparatory work.

- Ensure that the obligations under the BWM Convention, and under other national and local regulations, are fully understood, and develop a thorough strategy for complying with the applicable standards.
- Pay particular attention to the position in the [United States \(US\)](#). The US is not a party to the BWM Convention. Vessels discharging ballast water into US territorial waters must comply with the [US BWM Regulation](#) regardless of a vessel's status under the IMO BWM Convention. The US maintains a separate [list](#) of ballast water treatment systems approved by the US Coast Guard.
- Evaluate the suitability of available ballast water treatment system solutions for each vessel based on its operating profile and design (see below for more information on the different treatment options).
- Consider the “time factor”. Availability and delivery times for approved treatment systems will vary depending on demand, as will shipyard capacity.

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- Once a ballast water treatment system solution has been selected, make sure officers and crew are properly trained and are competent to carry out their assigned ballast water management duties and functions. Procedures for training and familiarization for the BWM Convention should be incorporated in the company's safety management system (SMS) and should include, but not be limited to, the following:

- introduction to ballast water management and all relevant rules and regulations;
- familiarization with the vessel's ballast water management plan and assigned duties;
- operation and maintenance of the vessel's ballast water management treatment system;

- emergency procedures; and

- making entries and recordkeeping in the vessel's ballast water record book.

- Ensure every vessel has onboard an approved

- Ballast Water Management Plan*

- , a

- Ballast Water Record Book,*

- and an

- International Ballast Water Management Certificate*

- .

- Prepare for Port State Control (PSC) inspections. In addition to verification of valid and approved onboard procedures, records and certificates, sampling of the vessel's ballast water may be required carried out in accordance with the IMO

- [Guidelines for ballast water sampling \(G2\)](#)

- . Compliance with national and local regulations will also be subject to inspection by PSC.

The vessel's Class Society can advise on the [IMO-approved systems](#) most suitable for the vessel type and trading area. Advise the classification society if the vessel is likely to trade to the US to ensure the system also meets US Coast Guard approval.

#### Fact box - Ballast water and why it matters:

Ballast water is seawater that is carried in the ballast tanks and cargo holds of ships

to improve stability and maneuverability during a ship's voyage. Around the world, ships carry 3-5 billion tons of ballast water each year. Ballast water is drawn into ballast tanks from the sea, generally at the start of a voyage at a port. It will often

contain a large quantity of non-native species which may be released at the next port-of-call. These "non-native species" can have a serious

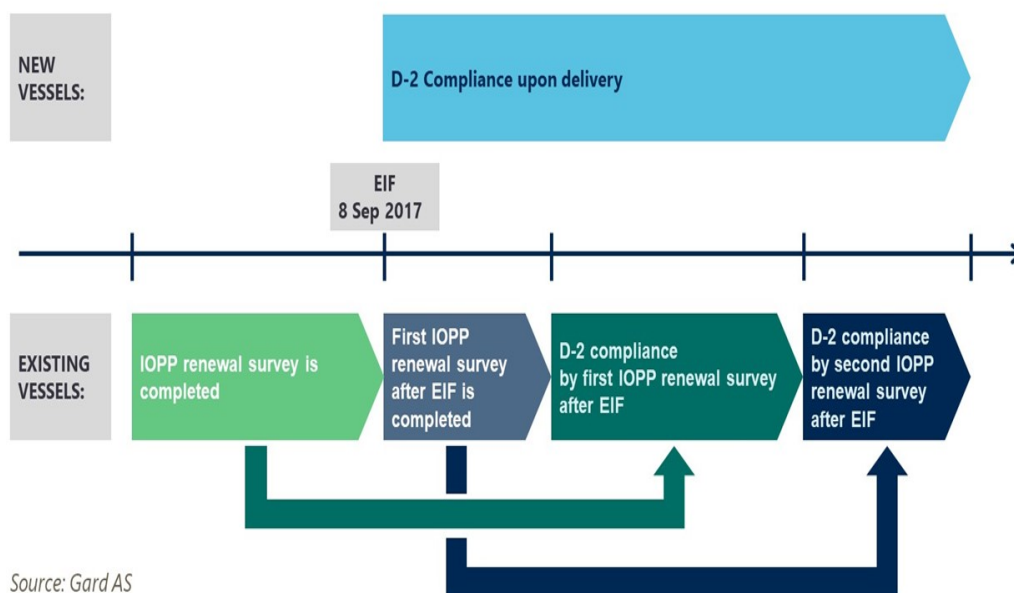
ecological, economic and public health impact on the receiving environment.

A Ballast Water Management Plan (BWMP) is a shipboard document that details the procedure for the discharge of ballast water and the handling of sediment. This plan must be specific to the vessel and her equipment and approved for each vessel by the Flag Administration and/or Class Society. At the time of writing, the plan may include procedures for either or both D-1 and D-2. However, after 8 September 2024, procedures must reflect the D-2 requirements. Most classification societies have developed helpful templates for the BWMP, e.g. like the one from DNV which can be found [here](#).

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**Ballast Water Management and Treatment**  
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Ballast Water Management Systems treat ballast water to remove or inactivate waterborne organisms, bacteria, and sediments. Generally, BWM systems treat the ballast water as it flows into the ship from the sea. Regulation D-3 of the BWM Convention requires that ballast water management systems must be ‘type-approved.’ In order to be type-approved by an Administration, ballast water management systems need to be tested in a land-based facility and onboard ships to prove that they meet the performance standard contained in regulation D-2 of the BWM Convention. While the date by which individual vessels must have a ballast water treatment system installed depends on its IOPP renewal date, the IMO Implementation Schedule for BWMS’s also ensures full global implementation by 8 September 2024. See our simplified implementation timeline below.



A number of ballast water treatment systems are available on the open market. Generally, most type-approved systems fall into one of the following four categories: Filter & UV systems, Filter & Electrolysis systems, Ozone systems, and Chemical Injection systems. The vessel's Class Society will be able to advise on which system is suitable for your vessel and type of trade.

## The insurance position

Gard has issued two Member Circulars on BWM, [Member\\_circular\\_4\\_2017.pdf](#) in July 2017 and [MemberCircular\\_17\\_2016.pdf](#) in January 2017, advising Members that liabilities, including fines for inadvertently introducing untreated ballast into the environment, are capable of cover, subject always to the Rules and any terms and conditions of cover. Cover for other fines relating to a breach of the BWM requirements are only available on a discretionary basis.

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