



TECHNICAL CIRCULAR No. 174 of 14th February 2014

To:	All Surveyors/Auditors
Applicable to flag:	All Flags
Subject:	Understanding Ballast Water Management
Reference	Ballast Water Management Convention

Understanding ballast water management

Below are some considerations on what you need to consider when selecting, procuring and installing a ballast water treatment system.

Steps to selecting a treatment system

Initial key aspects

- Vessel Type and characteristics
- Trading pattern
- Ballast capacity and flow rate requirements

Technical and Operational considerations

- Time required for treatment to be effective
- Ballast and treatment pumping rates
- Ballast system characteristics
- Health and safety
- In-service requirements

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- Explosion proof equipment
- Power requirements and onboard systems
- Effects on tank coatings and corrosion considerations
- Controls and alarms
- Space constraints

Treatment options

- Combination filtration and treatment
- Chemical options such as chlorination, ozon, deoxygenation and peracetic acid
- Mechanical means such as cavitation
- UV radiation
- Ultrasonic

Vendor selection and specification reviews

- Vendor experience is supplying similar systems
- Equipment approvals
- Commercial considerations

Installation planning

- At sea or dry docking considerations for existing ship
- Inclusion in build specifications for new builds

REFERENCES:

- Ballast Water Management Convention

ATTACHMENTS: No.

Kindest Regards,

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