



**BALLAST WATER
MANAGEMENT PLAN**

Certified
ISO 9001:2015
ISO 27001:2013

ABOUT BALLAST WATER TREATMENT SYSTEMS

Invasive Aquatic Species in ship's ballast water is one of the biggest problems faced by the shipping industry, posing a great threat to the marine ecosystem. As per IMO implementation of ballast water management plan and ballast water treatment system on board ships has thus become vital. Buoyancy Consultants focus on standardisation is one of its core capabilities when it comes to delivering ballast water compliance with rules and regulations set by IMO regarding Ballast Water Management.

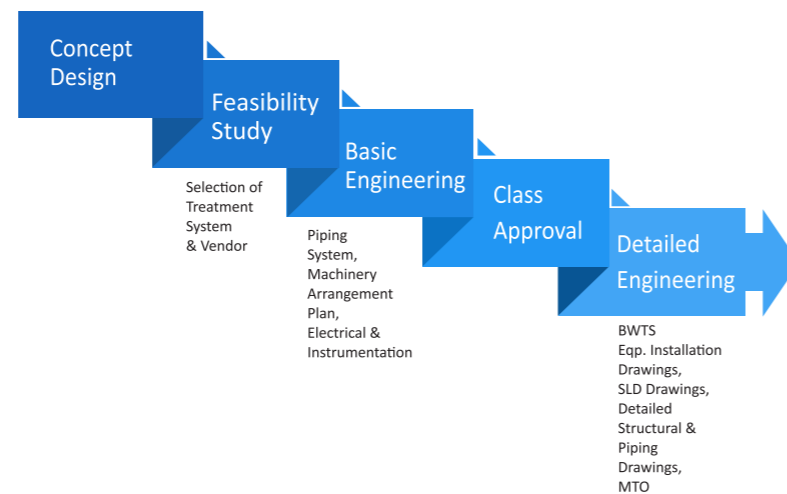
Two simple steps to ship owner needs to take to get ready

- Step1:** All vessels must comply with Regulation D-1 Ballast Water Exchange Standard prior to 8th September 2017
- Step2:** After Convention enters into force and on IOPP Certificate renewal, all existing vessels must comply with Regulation D-2 Ballast Water Treatment.

In order to comply with D-2 Ship-owner must:

- Choose IMO Approved Ballast Water Treatment system
- Complete an engineering retrofit design
- Request Class Plan Approval
- Carry out a retrofit
- Request a Class Acceptance Survey
- Receive an International Ballast Water Certificate (D-2)

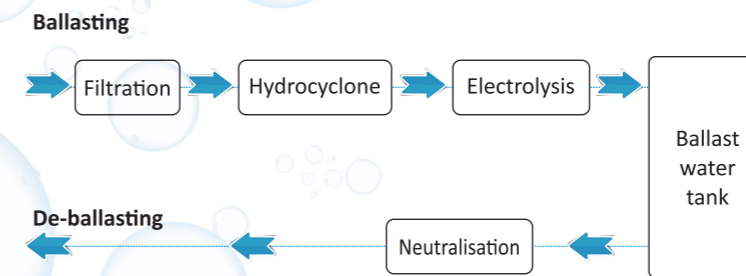
Scope of Engineering



Installation criteria for BWTS

- Effectiveness on ballast water organisms
- Environment-friendliness
- Safety of the crew
- Cost effectiveness
- Ease of installation and operation
- Space availability on board

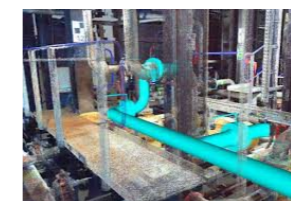
Onboard Ballast water treatment process



1. Laser Scanning



2. Preliminary modelling



3. Detailed Engineering



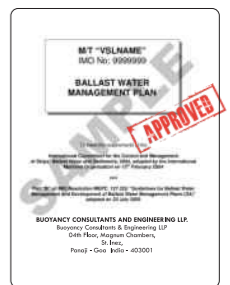
4. Purchasing & Prefabrication support



5. Installation & commissioning

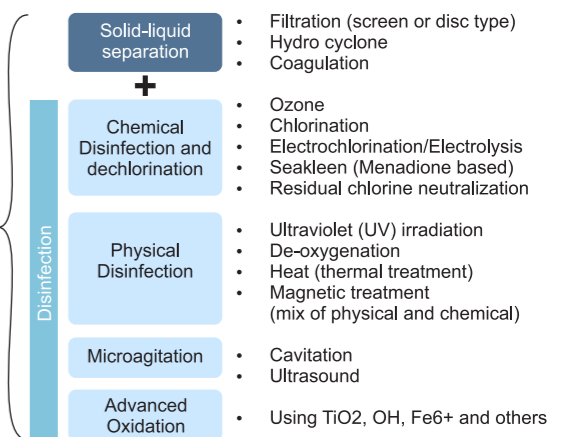


6. Documentation



APPLICATION

Ballast Water Treatment Technologies



Approval Requirements

- Treatment systems are required to be approved in accordance with IMO G8 guidelines (MEPC. 174(58) or MEPC. 125(53))
- If the system uses or produces an 'active substance' - the substance must be approved (basic and final) by the IMO in accordance with the IMO G9 Guidelines (MEPC.126(53))

3D scanning & onboard survey

Preliminary Modeling / Design

Ship documentation update (Ballast Management Plan, Single line diagram, etc.)

Documentation Approval

Detailed Engineering

Purchasing & Prefabrication support

Installation planning with supplier or supervision

Technical support & Service for commissioning

PROCESS FOR BWTS RETROFIT SOLUTION



PROJECTS FLOATED



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