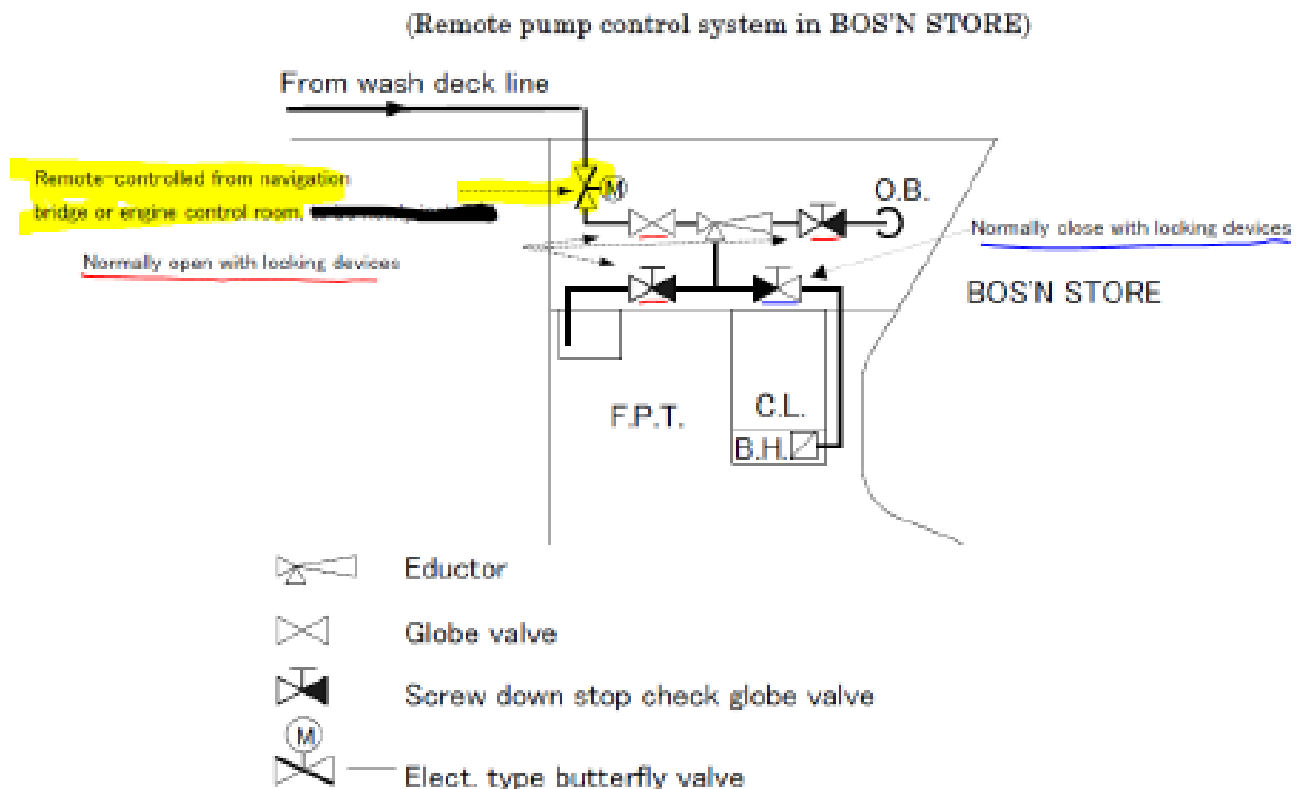
	<p>HEALTH, SAFETY, ENVIRONMENT AND QUALITY MANAGEMENT SYSTEM</p> <p>81.0: DE-WATERING SYSTEM</p> <p>ON THE JOB TRAINING</p>	<p>OJT : 081</p> <p>Page 1 of 5</p> <p>Date : 07-Nov-25</p> <p>Rev : 1.1</p> <p>Appr : DPA</p>
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VESSEL : _____

DATE : _____

Details of training: De-watering system

- On bulk carriers, the means for draining and pumping ballast tanks forward of the collision bulkhead and bilges of dry spaces any part of which extends forward of the foremost cargo hold shall be capable of being brought into operation from a readily accessible enclosed space, the location of which is accessible from the navigation bridge or propulsion machinery control position without traversing exposed freeboard or superstructure decks. (SOLAS Chapter XII – Regulation 13 - Availability of pumping systems)
- De-watering system also required on the ships other than bulk carriers, which occasionally carry dry cargoes in bulk.
- Water level detection and alarm system is to be located on the navigation bridge and be capable of detecting water ingress at all cargo holds and spaces and ballast tank forward of collision bulkhead. In general, FPT, Bosn's Store, F'cle Space excluding chain lockers are considered as these spaces. The systems is to be a type being approved and to be supplied with electrical power from two independent supplies, and failure of the primary electrical power supply is identified by an alarm.
- Check water from FPT, Bosun store and Void space (if any) excluding chain lockers can be pumped out remotely from the bridge or engine control room without going forward part of the vessel for lining up the manually operated valves. For this remote-controlled valve operated from bridge is installed on wash deck line for driving the eductor, forward stores bilge suction valve and overboard discharge valve are kept open. Refer following typical Bosun Store pumping out system:



	<p>HEALTH, SAFETY, ENVIRONMENT AND QUALITY MANAGEMENT SYSTEM</p> <p>81.0: DE-WATERING SYSTEM</p> <p>ON THE JOB TRAINING</p>	<p>OJT : 081 Page : 2 of 5 Date : 07-Nov-25 Rev : 1.1 Appr : DPA</p>
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- Check valves for bosun store bilge well and forward void space (if any) water pumping out system on board are correctly set up (manually operated suction and overboard discharge valves open at sea) and are marked accordingly.
- Refer RISQ 5.9, a warning notice is posted at bosun store bilge wells 'Check for oil before discharge' and overboard valve should be closed within port limit. Ensure the overboard valve is kept open at sea for pumping out water remotely.

77

5.9

Are the arrangements for detection and disposal of water from forecastle store and chain locker in good order, and are measures in place to prevent the accidental discharge of oil? (V)

☐ Yes ☐ No ☐ N/A ☐ N/V

Guide to Inspection
Where there is a possibility of hydraulic or other oil accumulating in the forecastle space, and hand pumps or ejectors are fitted, pollution prevention notices should be posted and the overboard valves should be secured against accidental opening, but not padlocked unless the key is readily available in a sealed box.
The sea valve may be left open while the vessel is at sea; however, a warning and notification placard shall be attached to the remote-control panels for the valve, and remote use of the valves shall be restricted to emergency situations only.
The sea valve shall be kept closed while the vessel is within the port limits, at anchor, or alongside, and special warning signs shall be posted to prevent the sea valve from being accidentally opened.

Attachment: Bosun store and forward void space pumping out system of two vessels.

Above has been read and understood.

CO: _____

2O: _____


3O: _____

X2O/X3O _____

D/C _____

Verified by: Master _____







Please file in OneDrive / 3.2.3 Training folder

	<p>HEALTH, SAFETY, ENVIRONMENT AND QUALITY MANAGEMENT SYSTEM</p> <p>81.0: DE-WATERING SYSTEM</p> <p>ON THE JOB TRAINING</p>	<p>OJT : 081</p> <p>Page 3 of 5</p> <p>Date : 07-Nov-25</p> <p>Rev : 1.1</p> <p>Appr : DPA</p>
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DW-WATERING SYSTEM


IVS Tembe

The line up for de-watering the forward void space and bosun store valves are left open, except for the main remote valves that can be operated from the bridge. The water ingress alarm system also will indicate water flooding forward void space and bosun store. Below picture will indicate bridge control and then opening and closing main suction valve forward void space and bosun store.

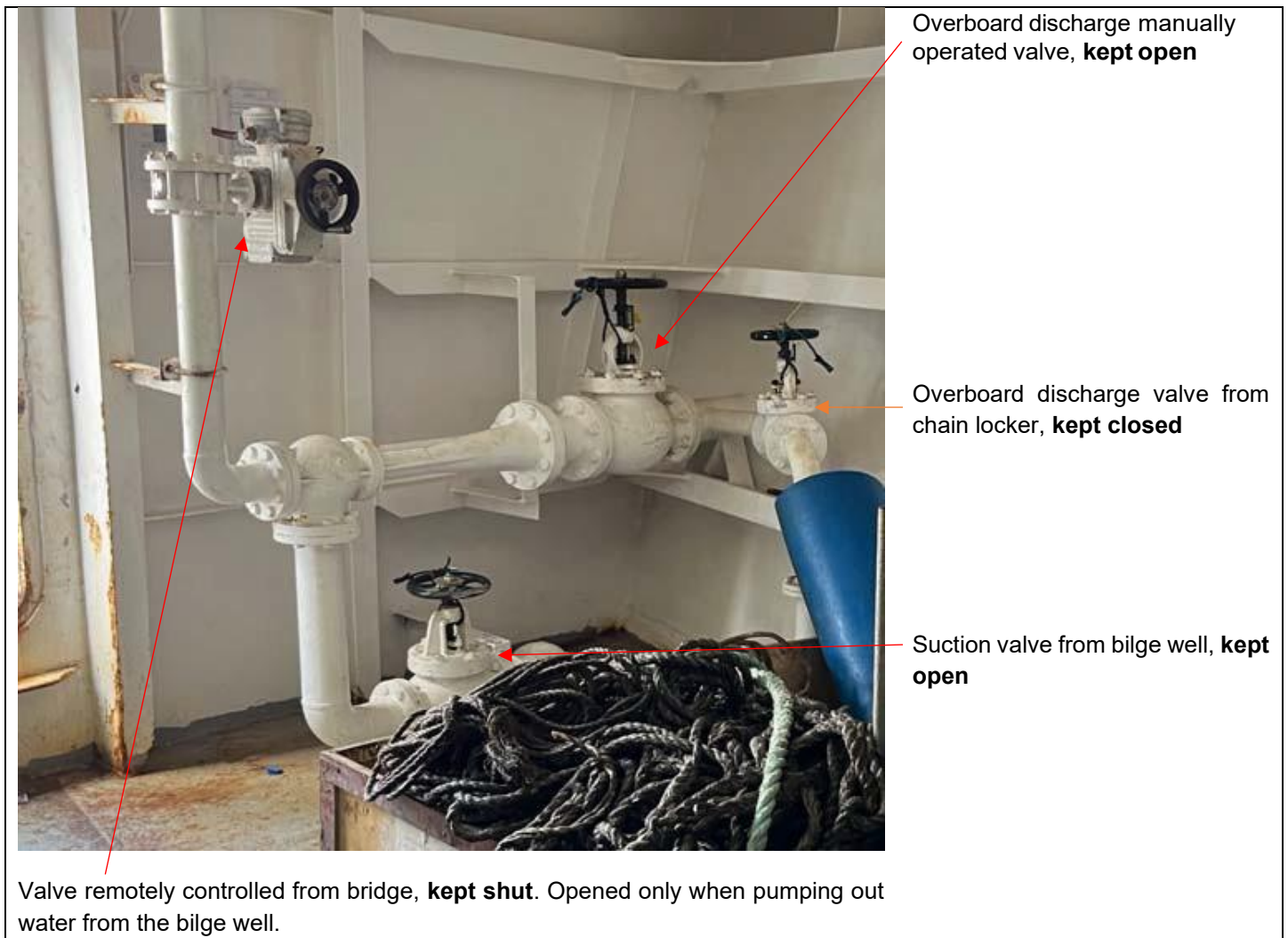
		
Closed	Open	Water ingress alarm
		
Void Space Remote Valve	Bosun store Remote Valve	Black local opening valve turning lever

These valves can be operated from the bridge remotely and also locally from the valve turning lever (black lever on the pictures to the right of the valve)


<p>Bottom valves for chain locker always kept closed and can only be operated locally.</p>

	<p>HEALTH, SAFETY, ENVIRONMENT AND QUALITY MANAGEMENT SYSTEM</p> <p>81.0: DE-WATERING SYSTEM</p> <p>ON THE JOB TRAINING</p>	<p>OJT : 081 Page : 4 of 5 Date : 07-Nov-25 Rev : 1.1 Appr : DPA</p>
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IVS Wentworth - Bosun store



IVS Thanda – De-watering panel



Fwd void space and Bosun store valve for driving the eductor are remotely controlled from the panel on bridge and are kept shut, these are opened only during pumping out of the water.