



# Environment Campaign

Our Environment, Our Responsibility

This month we discuss safe bunker management and safe bunkering operations in order to avoid unsafe bunkering practices which could result in pollution incident with disastrous environmental consequences

**FOLLOWING SECTIONS AS PER BUNKER MANAGEMENT AND OPERATIONS PROCEDURES SHALL BE STRICTLY COMPLIED WITH**

- **6.1 - Bunkering plan (Form 3.3.3)**
- **6.2 - Pre-bunker meeting**
- **6.3 - Pre-Transfer Meeting**
- **6.4 - Safety and anti-pollution**
- **7. Bunker procedure**
- **10 - Internal transfer operations**
- **13 - Bunker operations watch-keepers and training requirements**
- **The Chief Engineer shall ensure that the safety and antipollution requirements contained in the “Bunkering Safety Check List”, (Form 3,3,4) have been implemented prior to commencing bunker operations**
- **Ensure scuppers are effectively plugged**



Maintain manifold watch



Ensure all save all trays are plugged





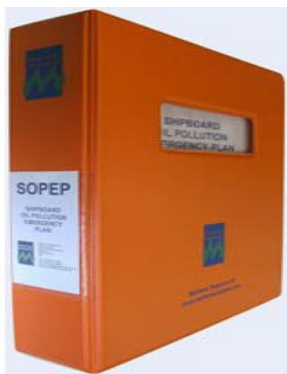
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- All equipment to be used, including hoses, pipelines, fittings and air vents on tanks has been inspected and found to be in good order with no soft patches or temporary repairs.



Keep oil spill equipment in readiness



Familiarize with SOPEP contents



Ensure overfill alarms are operational



Ensure spill pumps are operational



Establish proper communication and reduce rate while topping off

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Check / renew manifold gaskets as required



Monitor manual soundings frequently and record the same.

1. Have sufficient rest prior bunkering operations
2. Ensure nominated quantity is agreed and signed by ship and shore
3. Line up to be cross checked by other officer to avoid one man errors
4. Ensure pressure gauge and fittings are in good order
5. Ensure all flanges are fully bolted and unused flanges blanked
6. Be vigilant during bunkering operations
7. Monitor soundings frequently and record the same
8. Do not violate any safety requirements
9. Monitor sounding of tanks already topped up and all fuel oil tanks onboard
10. Do not rely on automatic gauges
11. At night keep deck well illuminated
12. Reduce rate while topping up
13. Bunker line to be hydrostatic tested annually to 1.5 times MAWP
14. Don't load tank more than 90% volume of tank capacity without office approval. Submit Risk Assessment for loading more than 90% capacity.
15. Agree emergency shutdown procedure and emergency signals.
16. Don't tick off any item in Bunker Safety Checklist without verifying it.
17. Carry out repetitive checks at agreed interval and maintain continuous watch on deck.

- **Company exercises a zero-tolerance approach to any non compliance / violation to the Environment Management System.**
- **BUNKER MANAGEMENT AND OPERATIONS Manual and requirement should be known and strictly implemented on board.**
- **LET US ALL BE SAFE THAN FEEL SORRY**