

# TECHNICAL REFERENCE FOR BUNKER MASS FLOW METERING (TR 48:2015)

LEGEND



Cargo Officer  
of Bunker Tanker

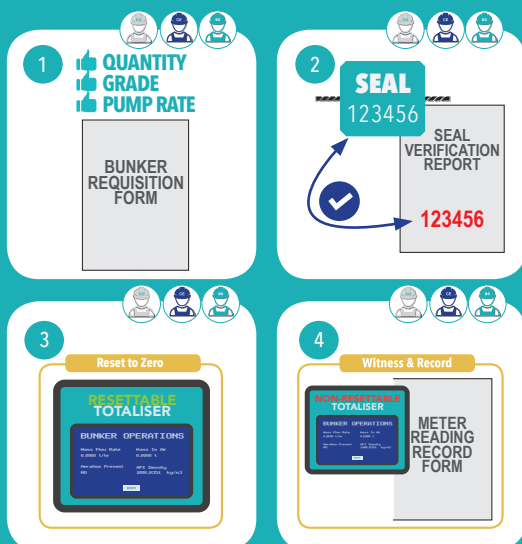


Chief Engineer of  
Receiving Tanker



Bunker Surveyor

## Pre-Delivery



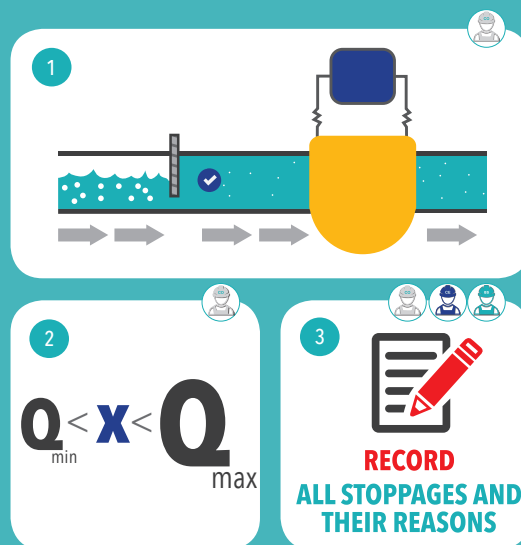
1. **Confirm** the quantity, grade of bunker and pumping rate (not lower than stated  $Q_{min}$  of the MFM system).
2. Seal numbers should **match** the latest seal verification report onboard. **Complete** the seal checklist.
3. Set resettable totaliser reading to **zero**.
4. **Witness** and **record** the opening meter readings.

**If any seal is missing, broken or if there is discrepancy, report to MPA immediately.**

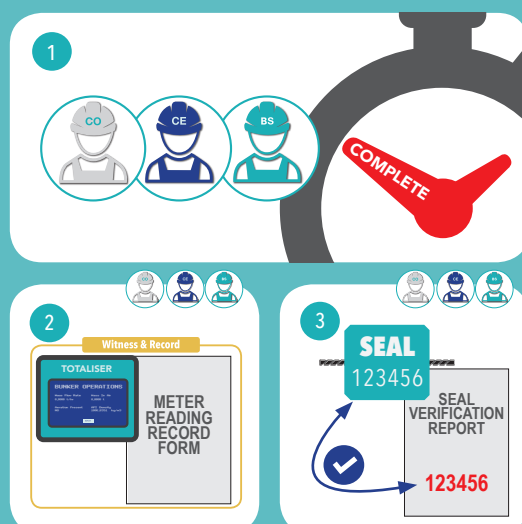
## During Delivery

1. **Fill** the cargo line as fast as practicable at the beginning of the bunkering operation.
2. Ensure that **agreed** pumping rate is adhered to.
3. **Record** all stoppages. Details for the stoppages must be **recorded**.

**Tank stripping and line clearing shall only be conducted at the end of the operation.**



## Post-Delivery



1. All parties shall **agree** on when the delivery is completed.
2. **Witness** and **record** the closing meter readings.
3. **Verify** that MFM system seals remain intact.

**No re-pumping of bunkers shall be allowed after the bunker metering ticket is printed.**