

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

LEGEND



Cargo Officer
of Bunker Tanker

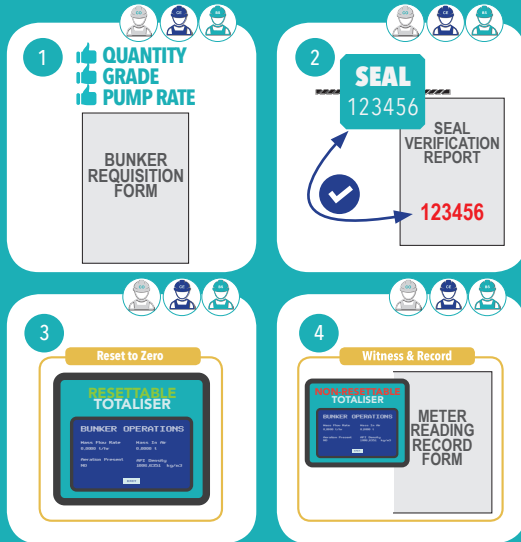


Chief Engineer of
Receiving Tanker



Bunker Surveyor

Pre-Delivery



1. **QUANTITY GRADE PUMP RATE**
BUNKER REQUISITION FORM
2. **SEAL** 123456
SEAL VERIFICATION REPORT
123456
3. **Reset to Zero**
BUNKER OPERATIONS
TOTALISER
4. **Witness & Record**
TOTALISER
METER READING RECORD FORM

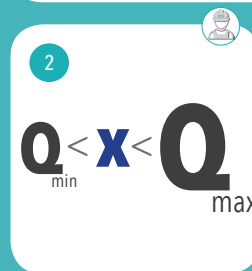
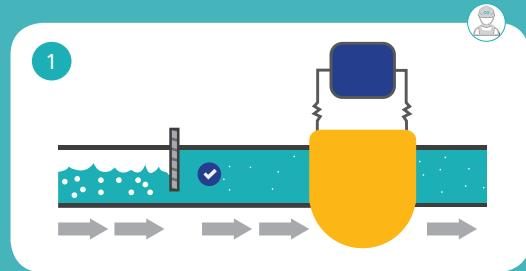
1. **Confirm** the quantity, grade of bunker and pumping rate (not lower than stated Q_{min} of the MFM system).
2. Seal numbers should **match** the latest seal verification report onboard. **Complete** the seal checklist.
3. Set resettable totaliser reading to **zero**.
4. **Witness** and **record**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

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

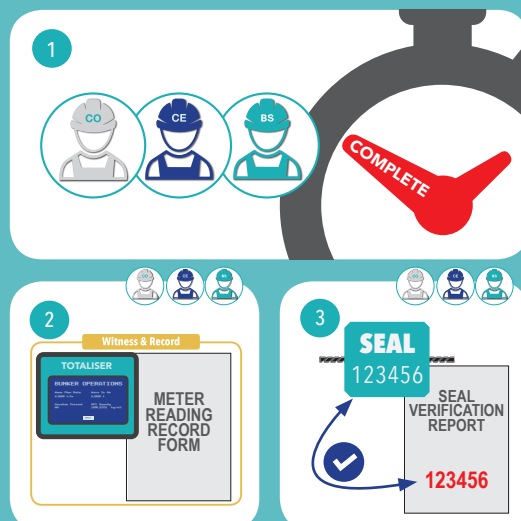
During Delivery

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. **COMPLETE**
2. **Witness & Record**
TOTALISER
METER READING RECORD FORM
3. **SEAL** 123456
SEAL VERIFICATION REPORT
123456

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.