



# MANAGEMENT SYSTEM MANUAL

## KNR 7.5.9 Bilge and Ballast Handling Operations

Originator:

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Approved By:

Albert F. Suchy

### 1. Purpose

The purpose of this procedure is to provide the correct handling of bilge and ballast waters for pollution prevention aboard the R.V Knorr.

### 2. Responsibility

The Chief Engineer is responsible during bilge and ballast handling operations. Even though the responsibility of pumping bilges over the side ultimately rests with the Chief Engineer, a Watch or Duty Engineer is usually overseeing the pumping and must follow these procedures.

### 3. References

- a. Glosten Drawing #7902 Sheets 2 and 3 (located on bulkhead above Bilge Ballast Pump)
- b. Ballast Water Record Book
- c. Engineer's Operating Manual (located in the ECR)

### 4. Procedure

#### Bilge Water

Several spaces appear to be oil free spaces. These include the Auxiliary Machinery Space (AMR), Engine Control Room (ECR), and Motor Room. Since these spaces utilize the same piping systems as machinery spaces having oil in them, there is the potential for discharging oil over the side. Spaces that have oil in them that need to be pumped overboard should be first pumped to the Slop Tank (4-63-2) using the Bilge Pump. After settling, it should be pumped overboard using the Oily/Water Separator (OWS) located in the Lower Machinery Room (LMR). Spaces that appear to be oil free can be pumped out directly using the OWS. (See Reference "c" above for pumping details.)

#### Ballast Water

The procedures outlined in the Ballast Water Maintenance Plan (BWMP) should be adhered to. This Ballast Water Maintenance Plan is set forth in procedure KNR-03. The point of ballast water pollution prevention is to stop the introduction of non-native species of sea animals and plants to foreign coastal shores. Any ballast water taken on at a coastal area less than 200 miles from shore or less than 2000 meters depth, should only be discharged in the same area or in "open ocean". It is preferred that only "open ocean" ballast water be taken on and discharged to the "open ocean". (See References "a" and "c" above for pumping details.)



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### 5. Reporting

The taking on and discharging of Ballast Water should be noted in the Ballast Water Management Plan (BWMP).