ATL 7.5.9 R/V Atlantis BILGE AND BALLAST HANDLING OPERATIONS

Originator:	Approved By:
Theophilus Moniz III	J.L. Coburn, Jr.

1. Purpose

The purpose of this procedure is to set forth general instructions for bilge and ballast operations on board R/V Atlantis.

2. Responsibility

It is the responsibility of the Chief Engineer to ensure that the bilge and ballasting operations are carried out properly. It is each Assistant Engineer's responsibility to know how to properly accomplish these operations.

3. References

a) Halter Marine Dwg: # 6932930 (sheets 1 to 3)
b) Ballast Water Management Plan

4. General

This procedure addresses two concerns. The prevention of oil pollution and the prevention of introduction of non-native invasive species into U.S. waters. The Ballast Water Management Plan details the procedures to prevent the introduction of non-native invasive species. The Engineer on Watch is responsible to determine if any tank, bilge or other space that may need pumping is or is not oil-free.

5. Reporting

The discharge of bilge water / effluent via the Oily Water Separator is required to be logged in the ship's OIL RECORD BOOK.

The taking on and discharging of Ballast Water is required to be logged in the ship's Ballast Water Management Plan logbook, on the Bridge.

BILGE PUMP (use pump when pumping overboard)

NOTE: IF BILGE POCKET CONTAINS OIL OR OILY WATER MIXTURE, USE THE OILY WASTE PUMP

1. Align the appropriate valves on the Bilge Manifold that requires pumping.
2. At the MCS console open the following valves:
   a) Bilge pump discharge valve

b) Bilge valve main suction
c) Bilge valve engine room (only used if pumping port engine room bilge)
d) Bilge valve aft pump room (only used if pumping Pump Room bilge)

3. Verify that the SW OVBD SW Bilge/Ballast skin valve is open.
4. At the MCS console push and hold for 30-second to 1-minute the BILGE VALVE PRIMING BUTTON
5. After this 30-second to 1-minute time frame, the bilge pump can be started.
6. A physical check of the bilge pump should be undertaken at this point.
7. A physical check of the area that requires pumping should be undertaken.
8. Once the level has receded to an acceptable level, the bilge pump can be secured.
9. At the MSC, as well as at the appropriate bilge manifold, close the valves opened at the beginning of the bilge pumping evolution.
10. **If there are any questions, do not hesitate to call the Chief Engineer**

OILY WASTE PUMP PROCEDURE

NOTE: Before starting this procedure, verify that there is room in the Waste Oil Tank for oily water mixture

1. At the stripping manifold, open the appropriate bilge suction valve
2. Align the pump suction to either the Oily Waste Pump or the Diaphragm pump.
3. Check the pump suction strainer and clean as required.
4. Align the pump discharge to the Oily Waste Tank and verify that the following valves are closed:
   a) Overboard valves
   b) Main Deck discharge valve
5. Start the pump (Oily Waste or Diaphragm) at their respective local controllers.
6. A physical check of the area to be pumped should be undertaken.
7. Once the level has receded to an acceptable level, the Pump (Oily Waste or Diaphragm) can be secured.
8. Close all of the valves opened at that beginning of this evolution
9. **If there are any questions, do not hesitate to call the Chief Engineer**

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OILY WATER SEPARATOR

Note: These operating instructions are to be utilized in conjunction with the established R/V Atlantis Oily Water Separator (OWS) Procedure.

1) Align the oily water separator (OWS) suction from the Oily Waste Tank
2) Check the OWS strainer.
3) Align the appropriate Oily Waste Tank and Waste Oil Tank discharge valves.
4) Operate the OWS as per SIGMA OWS Placards, located a the OWS unit
5) Once level in the Oily Waste Tank has receded to a sufficient level, secure the OWS as per SIGMA Placards.
6) Secure all valves opened in this pumping evolution.
7) **If there are any questions, do not hesitate to call the Chief Engineer**