



MANAGEMENT SYSTEM MANUAL

OCN 7.5.7 R/V Oceanus Quality of Potable Water

Originator:

Richard F. Morris

Approved By:

A. L. Suchy

1. Purpose

The purpose of this procedure is to set forth the guidelines for the quality of potable water aboard the R/V Oceanus.

2. Responsibility

It is the responsibility of the Chief Engineer to maintain adequate potable water quality.

3. General

Oceanus is outfitted with 2 independent potable water tanks. The tanks are located between frames 26 and 32 outboard of the reduction gear in the engine room. A pneumeracator is used to determine the level of water in each tank. The potable water pumps, located above the starboard potable water tanks, take suction from the tanks and discharge into the potable water pressure tank. Each tank is equipped with a spigot mounted on the manhole cover to allow a sample of water to be drawn directly from the tank. This spigot extends approximately 12" into the tank.

Ozone is provided to the potable water tanks from a Chem-Free Purification Systems unit via stainless steel tubing and a ceramic block bubbling system. The Chem-Free unit is programmed to cycle between the tanks to maintain a minimum ORP (Oxygen Reduction Potential) value of at least 650 mV.

It is important to regularly monitor the concentration of dissolved ozone in the potable water. This monitoring ensures that the ozone supply units are functioning as designed thereby keeping the water well dosed to kill off any harmful organisms. Ozone concentration is measured as ORP (Oxygen Reduction Potential) and the value is expressed in mV. On Oceanus, the test is performed with a EUTECH Instrument, model EC-ORPTEST10.

4. Sampling and Reporting Procedure

In accordance with ISM Procedure 7.5.7, Quality of Potable Water, a sample of the water in each tank is to be tested and recorded weekly. On Oceanus, the procedure below is to be followed for each tank.

1. Draw a sample from the spigot after allowing the water to run into the bilge for at least 30 seconds. Using the provided ORP tester, check the value of the water. Record the readings in NS5.



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