



HydraWrap (Fiber Reinforced Polymer)

Project

Ocean Shipholdings, Inc – Red Cloud RoRo Vessel

- (1) 18" X 24" Cooling (sea) water supply tee
- (1) 18" Cooling (sea) water supply elbow

Installer

HydraTech Engineered Products LLC & Red Cloud Vessel personnel

Engineered Solution

HydraWrap, Carbon Fiber Structural Repair.

Substrate / Preparation

CuNiFe – Hand and Power Tool.

Installation

November 2009

The cooling water system on the Red Cloud vessel experienced leaks and deterioration of the pipe wall. These leaks and deterioration were noticed primarily in the pipe fittings located immediately downstream of the supply pumps. Temporary patches and repair bands were implemented in the past to reduce the leaking. Still searching for a better repair, Ocean Shipholdings Inc, was introduced to HydraTech's ABS Design Approved Marine HydraWrap and requested repairs be made to several areas of the system where leaks had developed. The areas of the CuNiFe piping to be repaired were prepared and cleaned using hand tools and power tools to provide a clean surface and remove any foreign material.

HydraTech Engineered Products, LLC provided supervision and training services and Red Cloud vessel personnel completed the repairs on one 18" x 24" tee and one 18" elbow in one working day.

Steve Turner
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