

Belzona SuperWrap II ABS approved system Repairs Leaks USNS PFC Dewayne T. Williams Vessel

ID: 9737

Industry: Marine Customer Location: Guam
Application: VPF-Valves, Pipes and Fittings Application Date: September 2024
Substrate: Carbon steel
Products: Belzona 1161 (Super UW-Metal), Belzona 1982 (SuperWrap II)

Problem

The vessel was offshore to the Guam Naval Base. Many of the carbon steel pipes in their waste water system had corrosion problems. One of the main pipes had already critical low thickness and a repair was required by the ABS officer to move the ship. The only other options were to replace the pipe section but this was not a realistic option because of access and because the ship had to be moved to dry dock. The captain did not want to move the ship from water before the repair was done.



USNS PFC Williams Offshore
Guam

Pipe Section One - SuperWrap
II Completed

Pipe Section Two SuperWrap II
Completed

Pipe Section Three SuperWrap
II Completed

Application Situation

There were 3 pipes to do of 8-inch, 10-inch, and 14-Inch diameter. The only option to the customer was complete replacement or an ABS approved system. The other option was to replace the pipe completely or move the ship with the possibility of pipe rupture. The pressure was 50-80PSI in the system but the water was directly related to the waste water system. The other options to the customer could be very costly and virtually catastrophic if there was a rupture. The Belzona ABS approved system saved money and downtime to the customer. The job was done in 3 days the vessels was then able to be moved. Cabras Marine was the local contractor who did the application with a Belzona engineer supervising.

Application Method

The application method was in accordance with SuperWrap II best practices in application of the system. The surface was prepped with an MBX to and SSPC SP-11 Bare Metal Machine finish. Belzona 1161 was used in the welds and joint areas to smooth and even the surface for wrapping. Two wraps were done as per the specification.

Belzona Facts

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Customer was very happy and saved time and money from the other alternatives. The vessel was able to go on its way to the next port. The customer will access the repair in 2 years to see if it is being kept or if the pipe will be replaced. The Navy considers composite repairs as temporary repairs. The ABS officer reviewed and signed off on the repair of the 3 pipe sections.

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