Belzona SuperWrap II ABS approved system Repairs Leak USNS Tippecanoe

ID: 9738

Industry: Marine Customer Location: Guam

Application: VPF-Valves, Pipes and Fittings Application Date: September 2024

Substrate: Other

Products: Belzona 1161 (Super UW-Metal), Belzona 1982 (SuperWrap II)

Problem

The vessel was at the Guam Naval Base. There are copper-nickel pipes that run cooling water into the main motors . One of the main pipes had already a pin hole from thin wall on the pipe. The only other options were to replace the pipe section but this was not a realistic option because of access and because it would excessively extend the time on dry dock.









USNS Tippecanoe

Work and access area for repair SuperWrap II being applied on SuperWrap II pipe section the pipe section

being finished.

Application Situation

The pipe was a 10-nch Diameter pipe to wrap. The only option to the customer was complete replacement or an ABS approved system. This system had also already been specified in MSC as mitigation plan for T-AKE LTFW Cooler SW Outlet Piping. This sealed the option. The other option was to replace the pipe completely this would bring extensive downtime.. The pressure was 50-PSI in the system but the water was directly related to the cooling system in the main motors. The other options to the customer could be very costly. The job was done in 1 days the vessels was then able to be moved. Cabras Marine was the contractor that did the repair supervised by a Belzona engineer. 1982 was used because of the consistent 90F temperature and humidity in the area.

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 leak area to do a small plate bond. Two wraps were done as per the specification.

Belzona Facts

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 the repair in 2 years to see if it is kept or the pipe will be replaced. The Navy consideres composite repairs as temporary repairs. The ABS officer reviewed and signed off on the repair of the pipe section. Both the ABS

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ISO 9001:2015 FS 695214 manufactured under an ISO ISO 14001:2015 9000 Registered Quality EMS 695213 Management System.

approval and the MSC specification did the job to convince the customer on the repair system and method.	
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