

BELZONA RESCUES A PIPELINE AT THE CRUNCH TIME

ID: 6040

Industry: Oil & Gas
Application: SOS-Ships and Offshore Structures

Customer Location: Gulf of Mexico, USA
Application Date: March 2016

Substrate: Carbon Steel
Products: * Belzona 1511 (Super HT-Metal) ,
* Belzona 4981 (Magma HT Conditioner) ,
* Belzona 9111 (Cleaner Degreaser) ,
* Belzona 9381 (Reinforcement Sheet) ,
* Belzona 9382 (Release Film) ,

Problem

The pipes needed to be repaired and put back in service in a 48 hour window at air temperatures no higher than 50°F. The pipes were operating at 1,000 psi and 200°F. As there were no threaded connections, the only choice was shutting down the process, employing hot work to cut and replacing the defective pipe section. The customer was looking for a more attractive solution.



Photograph Descriptions

- * Original condition. Significant exterior corrosion causing wall loss. ,
- * After abrasive blasting shows several holes. ,
- * Post curing composite wrap with heat tape. ,
- * Completed application. ,

Application Situation

Customer had two ethyl glycol lines needing repair. The pipes were located near the waterline and access was difficult. One pipe had several through-wall defective areas whereas the other had thin-wall defects.

Application Method

Belzona 1511 was used to fill pits and rebuild the wall thickness lost. 5 layers of Belzona 9381 wetted with Belzona 4981 were applied with 50% overlap. Belzona 9382 was used to consolidate the repair. The system was allowed to cure at ambient temperature for 24 hours, then post cured at 200°F for 6 hours.

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

ISO 9001:2015
FS 695214
ISO 14001:2015
EMS 695213

Belzona products are
manufactured under an ISO
9000 Registered Quality
Management System.

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Repair • Protect • Improve

Belzona Facts

The customer saved time and money with the Belzona solution, and most importantly, did not have to shut down the line process.

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