

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.

www.belzona.com


BELZONA[®]
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.

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.

www.belzona.com

