

BELZONA RESCUES A PIPELINE AT THE CRUNCH TIME

CUSTOMER

Gulf of Mexico, USA

APPLICATION DATE

March 2016

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.

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.

PRODUCTS

Belzona 1511 (Super HT-Metal)
Belzona 4981 (Magma HT Conditioner)
Belzona 9111 (Cleaner Degreaser)
Belzona 9381 (Reinforcement Sheet)
Belzona 9382 (Release Film)

SUBSTRATE

Carbon Steel

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.

BELZONA FACTS

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

PICTURES

1. Original condition. Significant exterior corrosion causing wall loss.
2. After abrasive blasting shows several holes.
3. Post curing composite wrap with heat tape.
4. Completed application.



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