

Externally corroded pipe restored and strengthened

ID: 9813

Industry: Oil & Gas
Application: VPF-Valves, Pipes and Fittings
Substrate: Stainless-steel
Products: Belzona 1111 (Super Metal), Belzona 1981 (SuperWrap II)

Customer Location: Immingham
Application Date: April 2025

Problem

Customer identified an area of corrosion on their JP-51 pipeline, resulting in reduced wall thickness. The affected section was believed to have thinned to 5.31mm



External corrosion had caused deep pitting in the pipe

Belzona 1111 is applied to prepared surface to bring back to profile

Belzona 1981 SuperWrap II system has six layers applied and consolidated with tape

Finished application, restoring integrity and increasing strength to pipe

Application Situation

Performing the on-site repair ensured no costly downtime and removed the risk of further degradation to the pipe, which would have caused serious issues and prolonged shutdown period.

Application Method

The area was grit blasted to minimum surface profile, cleaned down and made dust free. The defect area was reprofiled using Belzona 1111 and allowed to become stable for an estimated 1 hour. Finally, our Belzona® SWII system was applied over the complete circumference area in 6 layers, before being wrapped with Belzona® 9381, consolidation tape. The following morning the consolidation tape was removed and a full inspection carried out by a Belzona supervisor.

Belzona Facts

Repairing the pipe before further corrosion would have resulted in lengthy and costly shutdowns. Repairing rather than replacing the affected area was a huge cost saving

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

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