

BELZONA SUPERWRAP II MEETS GAS PIPELINE OPERATOR REQUIREMENTS

ID: 5954

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

Customer Location: Gulf of Mexico
Application Date: October 2015

Substrate: Carbon Steel
Products: * Belzona 9611 (ES-Metal) - (previously named 1291) ,
* Belzona 1161 (Super UW-Metal) ,
* Belzona 1982 (SuperWrap II) ,
* Belzona 9381 (Reinforcement Sheet) ,
* Belzona 9382 (Release Film) ,
* Belzona 9111 (Cleaner Degreaser) ,

Problem

External corrosion led to a through-wall defect causing the platform to be temporarily shut down. The operator required a permanent repair compliant with DOT Standards. Traditional repairs required fabrication, causing extended downtime and production loss.



Photograph Descriptions

- * Riser with defects indicated. ,
- * Belzona 1291 plug and surface profile after blast. ,
- * Skim coat of Belzona 1161 for pit filling and leveling surface. ,
- * Completed SuperWrap II application, 4 wrap (8 layers) system. ,

Application Situation

20" Gas Pipeline Riser on Offshore Production Platform

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

Belzona products are
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Application Method

The repair area was very close to the waterline and had to be protected from wave action. Also, the application had to be completed at low tide. The riser was out of service, but there was some seepage from the through-wall defect and Belzona 1291 was used to plug the hole, allowing for a dry surface during blasting and application. Abrasive blast with angular grit was used to clean the surface to the requirements of SSPC SP-10 (Near White Metal) with an average anchor profile of at least 3 mils. Belzona 9111 was used to clean and remove all surface contaminants. Because of occasional spray and moisture in the area, Belzona 1161 was used to fill pits and level surface irregularities. Belzona 9381 was saturated with Belzona 1982 and applied in 4 wraps (8 layers) in compliance with the engineered design. Belzona 9382 was installed to consolidate the repair during the curing process and removed once the system was cured.

Belzona Facts

The SuperWrap II met the asset owner's requirements for a DOT Compliant repair. The overall process was completed in less time than alternative repair methods, reducing downtime and loss of production, making this system more cost effective.

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