

BELZONA SAVES OFFSHORE OIL & GAS PLATFORM FROM SHUTDOWN

ID: 4709

Industry: Oil & Gas

Customer Location: Gulf of Mexico

Application: VPF-Valves, Pipes and Fittings

Application Date: September 2013

Substrate: Carbon Steel

Products:
* Belzona 1121 (Super XL-Metal) ,
* Belzona 4141 (Magma-Build) ,
* Belzona 4151 (Magma-Quartz Resin) ,
* Belzona 9371 (Superwrap Reinforcement Sheet) ,
* Belzona 9111 (Cleaner Degreaser) ,

Problem

Leaking natural gas caused safety and environmental problems. The platform was subject to a forced shut-in for non-compliance of federal regulations. Conventional repairs by welding would have caused a platform shutdown and a loss of production, resulting in hundreds of thousands of dollars of income loss.



Photograph Descriptions

- * Photo of well conductor. ,
- * Photo identifying leak area. ,
- * Abrasive blasting in progress. ,
- * Completed Composite Wrap holding 85 PSI, no leaks. ,

Application Situation

External corrosion to well conductor caused natural gas leak of 85 PSI.

Application Method

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

ISO 9001:2015

Belzona products are

FS 695214

manufactured under an ISO

ISO 14001:2015

9000 Registered Quality

EMS 695213

Management System.

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The application was carried in accordance with a modified version of Belzona Know-How System Leaflets VPF 1, VPF 8. The void between inner and outer casing was filled with concrete, and the reinforcing gussets created difficult geometry for conventional composite wrap. The Belzona 4141 was used to form a fillet between inner and outer casing and help bridge seams around gussets. After the Belzona 4141 was installed the standard composite wrap procedure with Belzona 1121 and Belzona 9371, wetted out with Belzona 4151, was utilized in installing a two layer system.

Belzona Facts

The entire process of abrasive blasting and installing Belzona composite wrap was accomplished by a two man crew in 8 hrs. Conventional repairs by welding would have taken an estimated minimum of 16 hrs and because of hot work, the entire platform would have been shut down and an extensive degassing process would be required. The Belzona solution was less costly than welding and the platform suffered no loss of production (income). In total, the efficiency of the Belzona solution saved the operating company hundreds of thousands of dollars.

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