

OFFSHORE PRODUCTION DECK RESTORATION WITH BELZONA

ID: 5829



PROBLEM

Years of service without adequate maintenance in the offshore environment caused severe corrosion/metal loss of the production deck, impacting the structural integrity and personnel safety.

APPLICATION SITUATION

Total restoration of production platform deck using Belzona Cold Plate bonding system.

APPLICATION METHOD

The deck area to be restored was cleaned and prepared by UHP/aggregate/rust inhibitors. Belzona 9111 was used as a wipe down to clean and degrease all areas. The Belzona Cold Plate Bonding System was installed using Belzona 1121 as adhesive. A two coat system of Belzona 5811/Aggregate was installed afterwards. The aggregate was used to create an antislip surface.

BELZONA FACTS

The asset owner had determined it would require 10-12 days of downtime to utilize the traditional welding process to lay down new plates with a production loss of US \$ 350,000 per day. The comparison of welding materials/labor and Belzona plate bonding/labor indicated the latter to be about 20% higher. However, considering there would be no downtime/production loss with Belzona, the operator determined the entire materials and labor cost would be offset by one day of downtime, making an overall gain of over US \$3 M.

INDUSTRY

Oil & Gas

LOCATION

Gulf of Mexico, USA

APPLICATION DATE

November 2013

PRODUCTS

Belzona 1121 (Super XL-Metal)
Belzona 9111 (Cleaner Degreaser)
Belzona 5811 (Immersion Grade)

SUBSTRATE

Carbon Steel

PHOTOS

1. Condition of deck before restoration.
2. Installation of plate bonding system.
3. Restoration of new plates complete.
4. Two coat system of Belzona 5811 applied to new deck plates.

For more examples of Belzona Know-How in Action, please visit khia.belzona.com

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under an ISO 9001 Registered
Quality Management System.

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