

OFFSHORE PRODUCTION DECK RESTORATION WITH BELZONA

ID: 5829

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

Customer Location: Gulf of Mexico, USA
Application Date: November 2013

Substrate: Carbon Steel
Products: * Belzona 1121 (Super XL-Metal) ,
* Belzona 9111 (Cleaner Degreaser) ,
* Belzona 5811 (Immersion Grade) ,

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.



Photograph Descriptions

- * Condition of deck before restoration. ,
- * Installation of plate bonding system. ,
- * Restoration of new plates complete. ,
- * Two coat system of Belzona 5811 applied to new deck plates. ,

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

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FS 695214
ISO 14001:2015
EMS 695213

Belzona products are
manufactured under an ISO
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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.

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