

COLD APPLIED BELZONA VESSEL LININGS TAKE THE HEAT

ID: 4662

Industry: Oil & Gas
 Application: TCC-Tanks and Chemical Containment Areas
 Substrate: Steel
 Products: * Belzona 1591 (Ceramic XHT Metal) ,
 * Belzona 1511 (Super HT-Metal) ,

Customer Location: FPSO, Brazil
 Application Date: September, 2009

Problem

Pressure vessels required a corrosion resistant coating able to resist the high in-service temperatures. Adjacent flange faces and nozzles also required corrosion protection.



Photograph Descriptions

* 1. Vessel, outer view 2. Lining application 3. Flange face sealed and nozzle insert installed 4. Inspection in 2013 ,

Application Situation

2 Dual Frequency Electrostatic Desalters, Dual Frequency Electrostatic pre Dehydrator and a Production Separator were manufactured to be used on an FPSO at the Jubarte field, Brazil. Each vessel weighing 70 ton with a total internal area of 1,100 m². Vessels were designed to handle crude oil with 160°C design and 120°C operating temperature. Design pressure: 1451,3 kPa g, operating pressure up to 882,6 kPa g.

Application Method

Application was carried out in accordance with Belzona Know-How System Leaflets - TCC-5 for protecting and rebuilding steelwork, TCC-16b for protecting the small bore nozzles and VPF-13 for sealing and repairing the flange faces.

Belzona Facts

Belzona system was chosen due to its excellent heat resistance properties and proven longevity. The work was carried out in September 2009 and in February 2013 one of the desalters was opened for inspection. The condition was described as "flawless". The lining, flange faces and small bore nozzles all showed no signs of deterioration.

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

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

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 9000 Registered Quality
 Management System.

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