

Belzona Strengthens Nozzles of Heating Medium Expansion Vessel on Offshore Platform

ID: 8573

Industry: Oil & Gas
 Application: VPF-Valves, Pipes and Fittings
 Substrate: Carbon Steel
 Products: * Belzona 1511 ,
 * Belzona 9341 ,
 * Belzona 9111 ,

Customer Location: China
 Application Date: 2017

Problem

The nozzles of heating medium expansion vessel had developed thin-wall defect due to CUI.



Photograph Descriptions

- * 1. Surface preparation ,
- * 2. Condition of nozzles after sandblasting ,
- * 3. Complete application of Belzona Superwrap II ,
- * 4. View of nozzles after 3 years ,

Application Situation

Nozzles of heating medium expansion vessel on offshore platform suffering from corrosion and significant thickness loss. The design pressure is 0.3MPa, the design temperature is 180°C.

Application Method

The application was completed in accordance with Belzona System Leaflet VPF-11, with Belzona 1511 and 3 layers of Belzona 9341 applied. The whole application involved 2 two-inch nozzles.

Belzona Facts

For conventional welding, the whole heating medium expansion vessel need to be shut down and isolated, with thorough cleaning and water injection, which costs at least 5 days of downtime and affects the production. Welding in confined space may also cause

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

Belzona products are
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 9000 Registered Quality
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hazards. Therefore, the customer has been looking for the solutions with no hot work required but also accepted by classification society. Belzona solution can repair the nozzles of pressure vessels on-site, with no hot work required, reducing downtime and the loss of production. This repair system has also passed the MQT test of BV. The application is still in good condition after 3 years.

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