

Belzona Strengthens Nozzles of High-pressure Flare Scrubber on Offshore Platform

ID: 8570

Industry: Oil & Gas
Application: VPF-Valves, Pipes and Fittings
Substrate: Carbon Steel
Products: * Belzona 1511 (Super HT- Metal) ,
* Belzona 1983 (Belzona Superwrap II Resin) ,
* Belzona 9381 ,
* Belzona 9382 ,
* Belzona 9111. ,

Customer Location: China
Application Date: 2017

Problem

Due to the damage of the original insulation layer, the nozzle of the high-pressure flare scrubber was corroded under the insulation layer (CUI). The thickness of the nozzle was seriously reduced.



Photograph Descriptions

- * 1. Nozzles with serious corrosion problems ,
- * 2. Surface preparation with water blasting ,
- * 3. Complete application of Belzona Superwrap II ,

Application Situation

Nozzles of high-pressure flare scrubbers on offshore platform suffering from corrosion and significant thickness loss. The design pressure is 1.035MPa, the design temperature is -48°C~100°C.

Application Method

The repairs were designed in accordance with ISO24817 standard. The application was completed by Belzona trained and validated installers in accordance with Belzona Know-How System Leaflet VPF-11. Belzona supervisor and the on-site representative supervised the whole process. The whole application included 2 one and half-inch nozzles, 10 two-inch nozzles, 4 three-inch nozzles and 1 four-inch nozzle.

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

Belzona products are
manufactured under an ISO
9000 Registered Quality
Management System.

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Belzona Facts

For conventional welding, the whole high-pressure flare scrubber need to be shut down and isolated, with thorough cleaning and water injection, which costs at least 15 days of downtime and affects the production. Welding in confined space may also cause hazards. Therefore, the customer has been looking for the solutions with no hot work required but also accepted by classification society. Meeting the standard of ISO24817 and ASME PCC-2, Belzona Superwrap II can repair the nozzles of pressure vessels on-site, with no downtime or hot work required. The application is still in good condition after 3 years.

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