BELZONA STRENGTHENS NOZZLES OF HEATING MEDIUM EXPANSION VESSEL ON OFFSHORE PLATFORM

ID: 8573

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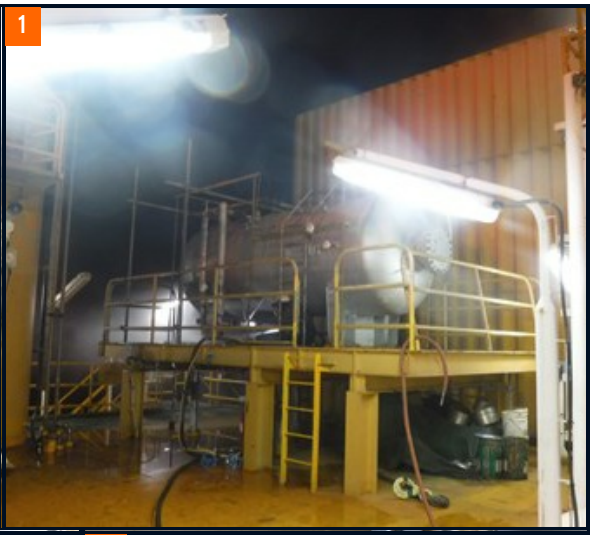

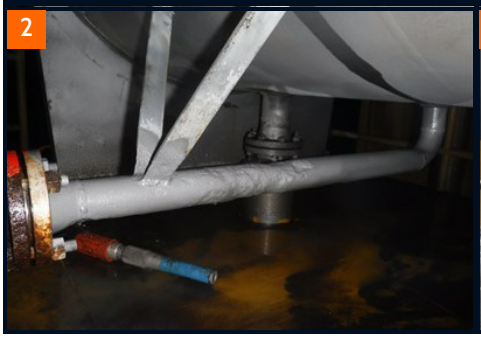

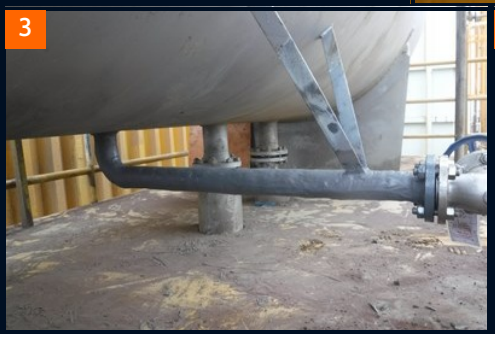

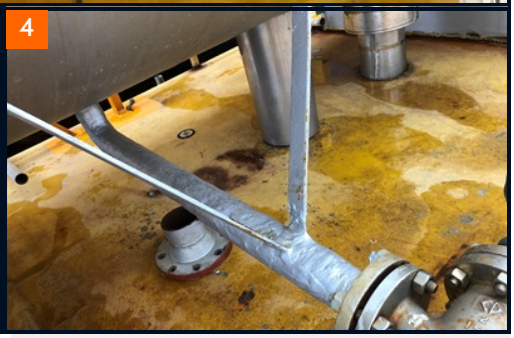

PROBLEM
The nozzles of heating medium expansion vessel had developed thin-wall defect due to CUI.

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 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.

INDUSTRY
Oil & Gas

LOCATION
China

APPLICATION DATE
2017

PRODUCTS
Belzona 1511
Belzona 9341
Belzona 9111

SUBSTRATE
Carbon Steel

PHOTOS
1. Surface preparation

2. Condition of nozzles after sandblasting

3. Complete application of Belzona Superwrap II

4. View of nozzles after 3 years