

BELZONA RESTORES NOZZLES OF CLOSED DRAIN DRUM ONLINE ON OFFSHORE PLATFORM

CUSTOMER
China

APPLICATION DATE
2017

APPLICATION SITUATION
Nozzles of closed drain drum on offshore platform suffering from corrosion and significant thickness loss. The design pressure is 1.035MPa, the design temperature is -46 °C ~ 110 °C.

PROBLEM
The nozzles of closed drain tank had developed thin-wall defect due to CUI.

PRODUCTS
Belzona 1511 (Super-HT Metal)
Belzona 1983 (Belzona Superwrap II Resin)
Belzona 9381
Belzona 9382
Belzona 9111 (Degreaser)

SUBSTRATE
Carbon Steel

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 involved 2 one and half-inch nozzles, 12 two-inch nozzles and 1 four-inch nozzle.

BELZONA FACTS
For conventional welding, the whole closed drain tank 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.

- PICTURES**
1. Nozzles during grit-blasting
 2. Condition of Nozzles after grit-blasting
 3. Complete application of Belzona SuperWrap II
 4. View of nozzles after 3 years



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

ISO 9001:2008
Q 09335
ISO 14001:2004
EMS 509612

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