BELZONA REPAIRS AND PROTECTS QUENCH TOWER

ID: 4618

PROBLEM
The tall carbon steel tower contains many trays and is insulated to prevent heat loss. Water penetration and condensation had led to severe CUI in many localised areas. The thickness of tower walls had reduced by more than 50% in some areas.

APPLICATION SITUATION
Quench tower suffering Corrosion Under Insulation (CUI).

APPLICATION METHOD
Application was carried out in accordance with a modified Belzona Know-How System Leaflet TCC-5. Due to the hazardous area and live tower, scope of surface preparation was limited. Spark free tools were used to remove all loose corrosion back to a sond substrate. Belzona® 1251 was used to repair pitted areas, using doubler plates bonded over the most severely corroded areas. The tower was coated to prevent further corrosion using Belzona® 5851.

BELZONA FACTS
The application was completed over the course of 18 days using around 250kg of Belzona® 1251. The work was completed with the tower in continuous service and the client was confident with Belzona's solutions for such on-line CUI repairs and has subsequently placed a repeat order for the restoration and protection of 13 further towers.

INDUSTRY
Chemical & Petrochemical

LOCATION
Petro Chemical Complex, Western India

APPLICATION DATE
2012

PRODUCTS
Belzona 1251 (HA Metal)
Belzona 5851 (HA-Barrier)

SUBSTRATE
Carbon steel

PHOTOS
1. Surface condition behind insulation at 7m height
2. Severe damage due to CUI
3. Application of Belzona 1251
4. Completed rebuild with high temperature barrier coating Belzona 5851 applied to prevent further corrosion

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