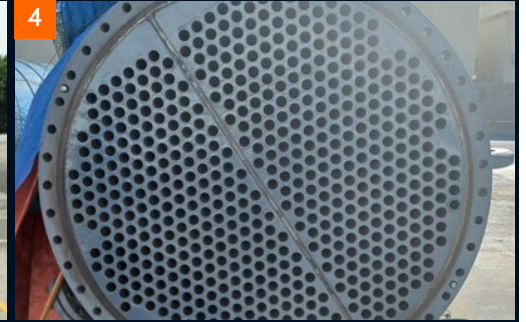
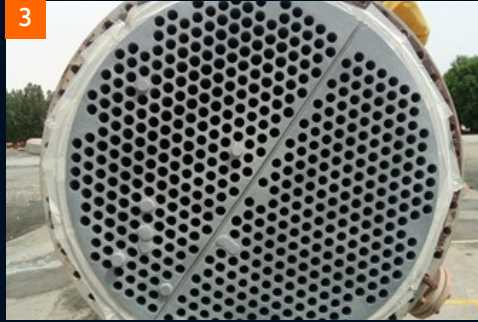
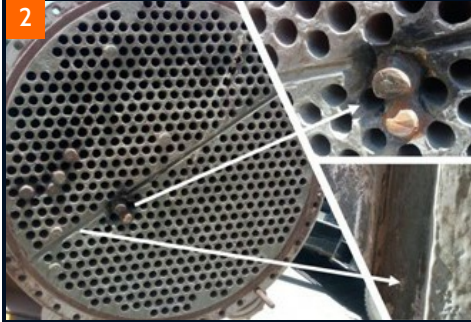
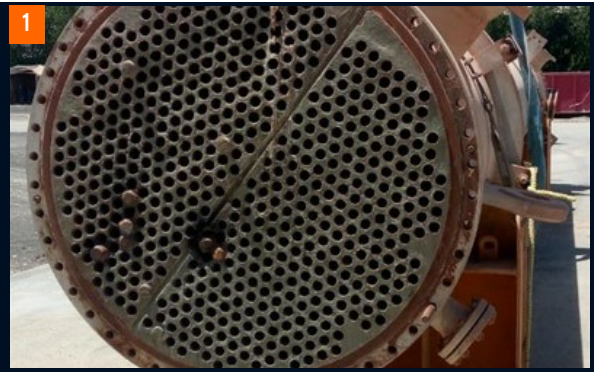


REPAIR AND PROTECTION OF INTER STAGE CHILLER TUBESHEET

ID: 9191



PROBLEM

Tubesheet suffering from galvanic corrosion. Erosive damage at the division bar was observed; severe erosion due to the slurry medium.

APPLICATION SITUATION

The tubesheet had been deeply eroded and replacement was the preferred option. As there was no standby equipment to replace, the customer was in a situation to repair the damaged chiller. Belzona repair, rebuilding and protection was presented to the customer, who was pleased and satisfied with the method statement based on Belzona heat exchanger repair methods.

APPLICATION METHOD

Hydro-jet cleaning was conducted first. Wooden plugs were inserted in all tubes to protect against high speed abrasives. A surface profile of 75 microns and a cleanliness of Sa2.5 were achieved. Rebuilt using Belzona 1311 paste grade and protected the tubesheet using Belzona 1392 coating grade. The repair and coating work was carried out in accordance with the Belzona System Leaflets HEX-1 and HEX-3.

BELZONA FACTS

Belzona helped the customer by reducing downtime. Equipment life and efficiency were also improved by the protective coating applied to the equipment.

INDUSTRY

Mining & Quarrying

LOCATION

Ras Al Khair

APPLICATION DATE

March 2023

PRODUCTS

Belzona 1311 (Ceramic R-Metal)
Belzona 1392 (Ceramic HT2)

SUBSTRATE

Carbon steel

PHOTOS

1. Initial condition of the tubesheet
2. Eroded tubesheet and damaged division bar slot
3. During application
4. Completed application

For more examples of Belzona Know-How in Action, please visit khia.belzona.com

Belzona products are manufactured under an ISO 9001 Registered Quality Management System.

www.belzona.com

