

# **BELZONA SAVES REFINERY \$50,000**

ID: 1013

Industry: Fluid Flow Customer Location: Refinery - Sweeny, Texas USA

Application: HEX-Heat Exchangers Application Date: January 2003 and January 2008

Substrate: Carbon Steel

Products: \* Belzona® 1111 (Super Metal),

\* Belzona® 1321 (Ceramic S-Metal),

#### Problem

Galvanic corrosion and erosion resulting in loss of thickness and gasket sealing surfaces. This allows for working fluid to bypass portions of the multi-pass exchanger thereby greatly decreasing the efficiency of the heat exchanger.









#### **Photograph Descriptions**

- \* Heat exchanger dollar plate prior to repair ,
- \* Heat exchanger dollar plate after repair and coating ,
- \* Heat exchanger after five years in service ,
- \* Heat exchanger channel head after five years in service,

#### **Application Situation**

Multiple heat exchanger components severely damaged by erosion/corrosion.

## **Application Method**

 $Belzona \ ^{\$} \ 1111 \ and \ Belzona \ ^{\$} \ 1321 \ were \ applied \ in \ accordance \ with \ Belzona \ Know-How \ System \ Leaflet \ HEX-2.$ 

### **Belzona Facts**

Conventional repair involves weld build up followed by the machining of new gasket surfaces at a cost of \$2,500-\$5,000 per dollar plate. The Belzona solution costs less than half of the conventional repair. This results in cost savings of more than \$50,000 per unit turnaround.

For more examples of Belzona Know - How In Action, please visit https://khia.belzona.com

ISO 9001:2015 Belzona products are
FS 695214 manufactured under an ISO
ISO 14001:2015 9000 Registered Quality
EMS 695213 Management System.

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Repair • Protect • Improve