Know-How*in Action*

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BELZONA RE-FORMS WARPED FLANGES FOR DECADES

CUSTOMER
Aluminum and chemical company in Grammarcy, Louisiana U.S.A.

APPLICATION DATE
1980

APPLICATION SITUATION
Distorted flanges on heat exchanger.

PROBLEM
A liquor regenerating heat exchanger ran dry, with the steam left on. This warped the upper and lower heads and shell flanges so badly that they wouldn't seat.

PRODUCTS
Belzona® 1111 (Super Metal)
Belzona® 9411 (Release Agent)

SUBSTRATE
Carbon Steel

APPLICATION METHOD
The application was carried out in accordance with Belzona® Know-How System Leaflet GSS-8.

BELZONA FACTS
The application saved the customer over $150,000, in 1980! The alternative was to perform in place machining of the 15 foot diameter flange faces and mating surfaces. With mating surfaces restored the heat exchanger has operated for decades.

PICTURES
1. Application of Belzona® 1111 in progress.
2. Upper head being hoisted into place to re-form the distorted flange.
3. After upper head was lowered excess material was removed prior to cure.
4. Flange face rebuilt.

1.

2.

3.

4.

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

Belzona products are manufactured under an ISO 9000 Registered Quality Management System.

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