

# BELZONA RE-FORMS WARPED FLANGES FOR DECADES

ID: 388

Industry: General Industry

Customer Location: Aluminum and chemical company in  
Grammarcy, Louisiana U.S.A.

Application: GSS-Gaskets, Seals and Shims

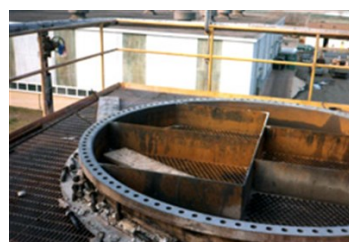
Application Date: 1980

Substrate: Carbon Steel

Products: \* Belzona® 1111 (Super Metal) ,  
\* Belzona® 9411 (Release Agent) ,

## 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.



## Photograph Descriptions

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

## Application Situation

Distorted flanges on heat exchanger.

## 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.

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

ISO 9001:2015  
FS 695214  
ISO 14001:2015  
EMS 695213

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

[www.belzona.com](http://www.belzona.com)

  
**BELZONA®**  
Repair • Protect • Improve