

# BELZONA HOT GROUNDWATER PROTECTION

ID: 22

Industry: Power

Customer Location: Geothermal Power Plant in Southern California, U.S.A.

Application: HEX-Heat Exchangers

Application Date: October 1997

Substrate: Cast iron

Products: \* Belzona® 1591 ,

## Problem

*Hot groundwater contains high levels of minerals, sulfur and abrasives. There is erosion/corrosion of the tube sheet face at elevated temperature.*



## Photograph Descriptions

- \* General view of the generating units. ,
- \* Tubesheet of vaporizer with head removed. Work station in foreground. ,
- \* Application in progress. ,
- \* Finished application. ,

## Application Situation

Tube sheet of vaporizer is exposed to groundwater at 280-330°F

## Application Method

The application was carried out in accordance with Belzona Know-How Leaflet HEX-1. Duct tape was used around the circumference and to mask off the division bar areas. Because each tube protrudes, artist brushes were used to coat between the tubes.

## Belzona Facts

Belzona® 1591 is the only protective coating of its kind that can withstand severe erosion/corrosion at temperatures above 180°C (360°F). Years later the coating continues to protect the tube sheet face.

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

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