

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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