

BELZONA HOT GROUNDWATER PROTECTION

ID: 22



PROBLEM

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

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.

INDUSTRY

Power

LOCATION

Geothermal Power Plant in Southern California, U.S.A.

APPLICATION DATE

October 1997

PRODUCTS

Belzona 1591

SUBSTRATE

Cast iron

PHOTOS

1. General view of the generating units.
2. Tubesheet of vaporizer with head removed. Work station in foreground.
3. Application in progress.
4. Finished application.

For more examples of Belzona Know-How in Action, please visit khia.belzona.com

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