

BELZONA REVIVES 'MOTH-BALLED' POWER PLANT

ID: 239

Industry: Power

Customer Location: Power plant in southern California, U.S.A.

Application: HEX-Heat Exchangers

Application Date: May 2000

Substrate: Cast iron

Products: * Belzona® 1121 (Super XL-Metal) ,
* Belzona® 5811 (Immersion Grade) ,
* Belzona® 2211 (MP Hi-Build Elastomer) ,

Problem

The power plant was sold under California's power industry de-regulation and was scheduled to be dismantled. The current energy crisis caused it to be called back on line, however, the water box for two of the units was severely corroded on the inside.



Photograph Descriptions

- * View of severe corrosion on the interior ,
- * Rebuilding with nearly 1/8" of Belzona® 1121 over the entire surface of about 2,500 square feet ,
- * Coating with Belzona® 5811 ,
- * Sealing edges of box to tube sheet with Belzona® 2211 ,

Application Situation

A corroded 70-year-old cast iron water box.

Application Method

The application was carried out in accordance with Belzona Know-How System Leaflets HEX-2, HEX-3 and HEX-5.

Belzona Facts

The plant could not run without a `new' water box. The only other solution was to literally replace the whole box and tube bundle. This would have taken six months and cost over \$3 million. The Belzona Solution allowed the utility to begin producing

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

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power for the lucrative market within days. Exterior condensation problems have also been solved.

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