

BELZONA INJECTS NEW LIFE INTO HYDRO DAM BEARING

ID: 3089

Industry: Power
Application: MPT-Mechanical Power Transmission

Customer Location: Hydroelectric plant, Missouri
Application Date: February 2012

Substrate: Cast iron
Products: * Belzona® 1221 (Super E Metal) ,
* Belzona® 1321 (Ceramic S Metal) ,

Problem

While running a high voltage test on the bearing and isolator ring a section of the bearing was damaged when a spark melted one area.



Photograph Descriptions

- * Close up of the damaged surface ,
- * Mold being treated with release agent ,
- * Injecting the Belzona® 1321 ,
- * Completed repair ,

Application Situation

Customer had damaged the bearing surface and was looking for a cost effective long term affordable repair.

Application Method

The application was carried out using a modified version of Belzona Know-How System Leaflet MPT-2. The Belzona® 1321 was injected into a mold that had been treated with Belzona® 9411 (Release agent) after the Belzona® 1221 had been used to seal all the open areas to contain the injected material within the repair area.

Belzona Facts

The alternative option to Belzona was to have a machine shop come in and weld up the area and then machine it back down. The heat involved was a major concern. Estimated cost was \$50,000 for this repair. The Belzona repair was 1/10th of the cost and

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

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completed within a few hours.

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