

# 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

Belzona products are  
manufactured under an ISO  
9000 Registered Quality  
Management System.

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Repair • Protect • Improve

completed within a few hours.

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