

# COLD BONDING WITH BELZONA OFFERED ALTERNATIVE REPAIR TO PENSTOCK

ID: 3617

Industry: Power  
Application: GSS-Gaskets, Seals and Shims  
Substrate: Steel pipework  
Products: \* Belzona® 1211 (E Metal) ,  
\* Belzona® 5811 (Immersion Grade) ,

Customer Location: Hydro Power station, UK  
Application Date: March 2006

## Problem

The penstock had been weld repaired and due to the nature of hot works, the penstock had deformed and created a void between the penstock pipe and the concrete support pad. The Hydro power station would not accept the void between penstock and the pipe support and informed the contractor they would need to rectify the problem before signing the job off.



## Photograph Descriptions

- \* View of the penstock ,
- \* View of the pipe support 3. Brass plate being put into place ,
- \* Application completed (Belzona® 1211 on the edges, Belzona® 5811 injected in the void) ,

## Application Situation

Penstock of the hydro power station (the penstock support was half way up a hill).

## Application Method

Application was carried out in accordance with Belzona Know-How System Leaflet GSS-9. Edges of brass plate were sealed to penstock with Belzona® 1211. Void between penstock and plate was then filled with Belzona® 5811 using injection equipment.

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

ISO 9001:2015  
Q 09335  
ISO 14001:2015  
EMS 509612

Belzona products are  
manufactured under an ISO  
9000 Registered Quality  
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## Belzona Facts

The repair was done on site, in a short time. The injection technique used in this application ensured that there is no void between the brass plate and the penstock, eliminating any galvanic or crevice corrosion. Belzona application remained effective until entire penstock had to be replaced.

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