

COLD BONDING WITH BELZONA OFFERED ALTERNATIVE REPAIR TO PENSTOCK

ID: 3617



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.

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.

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.

INDUSTRY

Power

LOCATION

Hydro Power station, UK

APPLICATION DATE

March 2006

PRODUCTS

Belzona 1211 (E Metal)
Belzona 5811 (Immersion Grade)

SUBSTRATE

Steel pipework

PHOTOS

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

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

Belzona products are manufactured under an ISO 9001 Registered Quality Management System.

www.belzona.com

