

BELZONA REPAIRS AND PROTECTS TURBINE

ID: 5639



PROBLEM

Damage on the 24 turbine blades due to erosion and corrosion. 70% of the blades had the same type of problem.

APPLICATION SITUATION

Turbine Blades

APPLICATION METHOD

The surface preparation was carried out with mechanical tools, such as grinder, until the area was rough, clean and free from contamination. Belzona 9111 was applied to clean and decontaminate the area. The application was carried out in accordance with Belzona Know-How System Leaflet CEP-1. The application of Belzona 1111 was carried out in 2 hours on 24 blades. After the product cured, it was machined to give the final profiles to the blades. To protect the repair, Belzona 1321 was applied with a brush in a layer of 500 microns.

BELZONA FACTS

The repair took two days and the personnel at the Hydroelectric Plant gained knowledge of Belzona products and procedures.

INDUSTRY

Power

LOCATION

Hydroelectric Plant, Honduras

APPLICATION DATE

December 2004

PRODUCTS

Belzona 1111 (Super Metal)
Belzona 1321 (Ceramic S-Metal)
Belzona 9111 (Cleaner/Degreaser)

SUBSTRATE

Steel

PHOTOS

1. Damage on the turbine blades
2. Application of Belzona 1111
3. Application of Belzona 1321
4. Blades rebuilt and protected

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

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