

FOUR BELZONA REPAIRED CONDENSERS STILL IN SERVICE AFTER 17 YEARS

ID: 1634



PROBLEM

Corrosion pitting had occurred around the tubes as a result of bi-metallic corrosion effects and the chloride content of the used river water.

APPLICATION SITUATION

Four main condensers with a total of eight tube sheets

APPLICATION METHOD

The application was carried out in accordance with the Belzona Know-How System Leaflet HEX-1. Belzona® 1311 was used for rebuilding and Belzona® 1321 for the coating of the tube sheets.

BELZONA FACTS

Since the application of the coating, regular inspections took place which proved the excellent performance of the Belzona coating. In 2005, the complete coating of the tube sheet was still intact without showing any signs of degradation. A further inspection in 2010, after 17 years in service, also showed that the coating was still in a good condition. Only 10% of the surface was locally damaged due to mechanical damage. These areas were quickly repaired with Belzona before the tube sheet was put back into service.

INDUSTRY

Buildings & Structures

LOCATION

Power station, Thailand

APPLICATION DATE

October 1993

PRODUCTS

Belzona 1311 (Ceramic R Metal)
Belzona 1321 (Ceramic S Metal)

SUBSTRATE

Carbon steel

PHOTOS

1. Corroded tube sheet before application in 1993
2. Standard application underway. Special care was taken to prevent contamination of substrate)
3. Inspection in 2005
4. Inspection in 2010

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