

CONDENSER TUBE SHEET RESTORED WITH BELZONA

CUSTOMER

Nuclear power station, Eastern Canada.

APPLICATION DATE

August 2013

APPLICATION SITUATION

Main Condenser tube sheet at a nuclear power station

PROBLEM

The tube sheet had suffered from bimetallic corrosion around the tubes and at the edges of the tube sheet as well as metal loss due to erosion.

PRODUCTS

Belzona 1311 (Ceramic R-Metal)

Belzona 1331

Belzona 2211 (MP Hi-Build Elastomer)

SUBSTRATE

Steel

APPLICATION METHOD

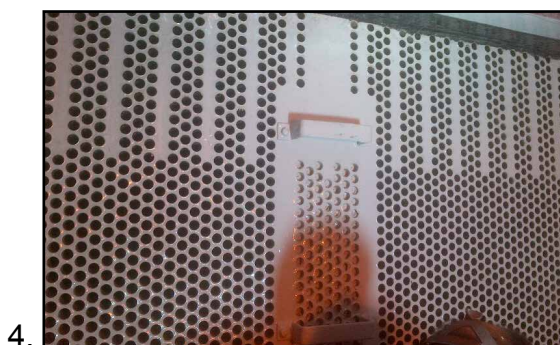
Application was carried out in accordance with Belzona System Leaflets HEX-1 & HEX-5. After grit blasting, the eroded areas were rebuilt using Belzona 1311. Once the substrate profile was restored, Belzona 1331 was applied as a two coat system to provide overall corrosion protection across the affected areas on the tube sheet and water box. Finally, a flexible joint was created between the waterbox and the tube sheet using the Belzona 2211 to allow for movement between these parts.

BELZONA FACTS

Following the failure of the previous lining, the customer required a system which could be quickly applied and returned to service. Belzona 1331 was chosen for its ease of application and applicability even in confined spaces. Belzona products were able to provide the erosion and corrosion resistance required together with flexible solution for the tube sheet/waterbox junction.

PICTURES

1. Tube sheet and waterbox edges following thorough grit blasting
2. Close up picture of the severe pitting along the water box edge
3. Following application, the Belzona 1331 was dressed down around each tube
4. Finished application. Also visible at the top of the image is the Belzona 2211 joint



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