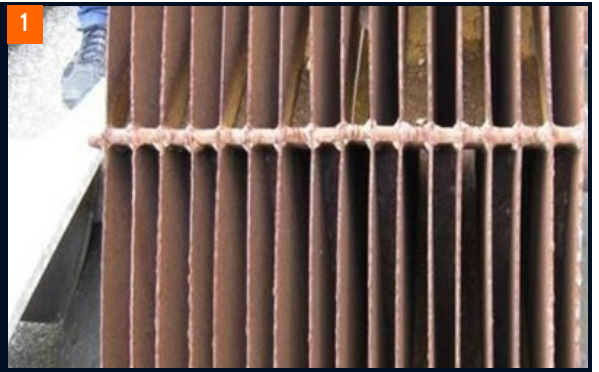


ABRASION PROTECTION FOR COAL CLASSIFIERS WITH BELZONA 1813

ID: 4121



PROBLEM

Extensive abrasion and wear

APPLICATION SITUATION

Coal-fired power station. The coal classifier is installed behind the coal pulverising mills. The pulverised coal is subsequently injected into the boiler furnace via the coal classifier.

APPLICATION METHOD

Initially, an ASR form was completed and reviewed by the technical team. Belzona® 1813 was applied by hand to the classifier edges and plate sides to a depth of approximately 100 mm.

BELZONA FACTS

The life of each classifier had been about six months, with service conditions including temperatures of up to 160°C (dry) and a throughput rate of approximately 5000m³/h per unit. Following the application of Belzona® 1813 on a trial basis, there were few signs of abrasion on the classifier deflector plates upon inspection 10 months later, in 2012. As a result, the customer plans to coat the old classifiers with Belzona® 1813 to prolong service life and other power stations within the group are investigating the use of this technology.

INDUSTRY

Power

LOCATION

Germany North Rhine Westfalia

APPLICATION DATE

August 2011

PRODUCTS

Belzona 1813

SUBSTRATE

Quenched and tempered C60 steel

PHOTOS

1. View of one of the coal dust classifiers
2. Close-up of a coal classifier showing the wear (top right)
3. Completed surface preparation
4. Application in progress

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