

Abrasion protection for coal classifiers with Belzona® 1813

ID: 4121

Industry: *Power*

Application: *SHM-Solids Handling Machinery*

Customer Location: *Germany North Rhine Westfalia*

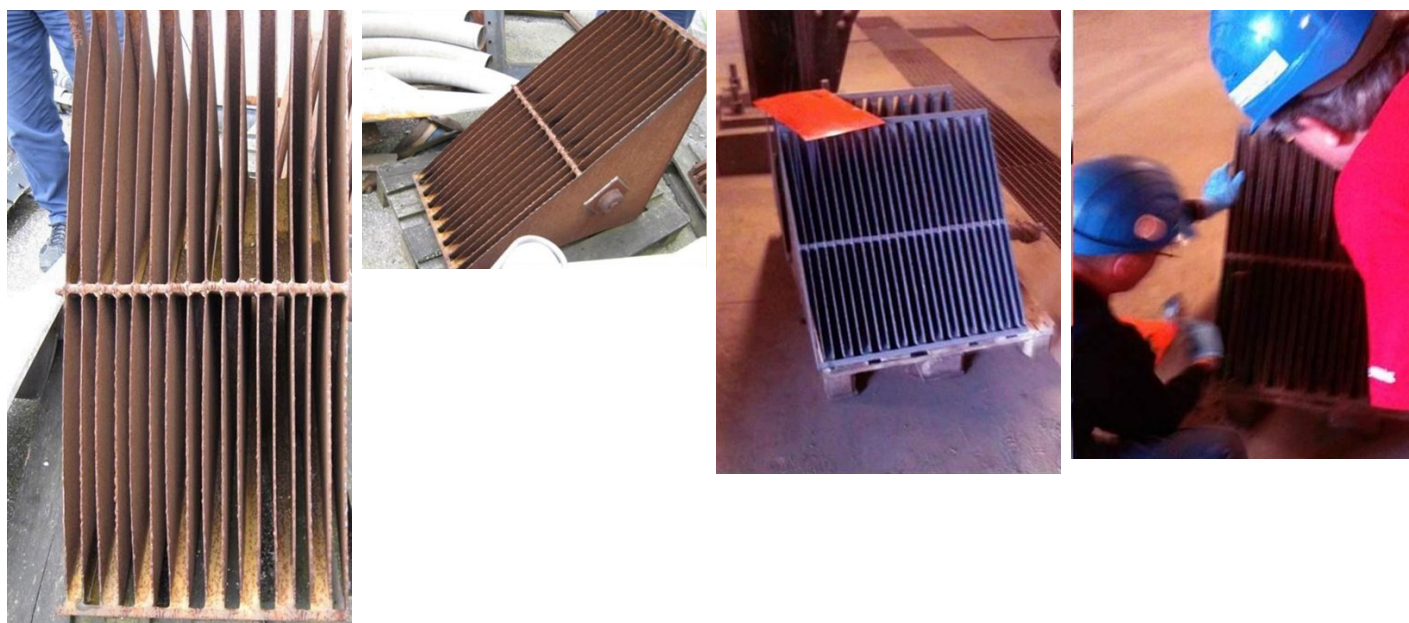
Application Date: *August 2011*

Substrate: *Quenched and tempered C60 steel*

Products: ** Belzona® 1813 ,*

Problem

Extensive abrasion and wear



Photograph Descriptions

- * View of one of the coal dust classifiers ,
- * Close-up of a coal classifier showing the wear (top right) ,
- * Completed surface preparation ,
- * Application in progress ,

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

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

ISO 9001:2015

FS 695214

ISO 14001:2015

EMS 695213

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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.

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