

BELZONA PROVEN PROTECTION OF STEAM TURBINE

ID: 1290



PROBLEM

After more than 35 years (253.000 hours) in-service, inspection during shutdown in 2003, revealed that turbine faced severe stream erosion caused by humid steam. Damages were up to 8 mm wide and 10 mm deep.

APPLICATION SITUATION

Diaphragm and channels under the end journal of medium pressure steam turbine.

APPLICATION METHOD

Application was carried out in accordance with a modified version of Belzona Know-How System Leaflets CEP-3 & -5.

BELZONA FACTS

After 5 years in-service turbine has been inspected (July 2008) and results were very satisfactory. Channel around the nozzle blades had been preserved 95-100%. Also Belzona® 1391 on the rebuilt areas was practically undamaged. In a zone of phase transition, minor damages were easily repaired.

Testimonial from client expressed complete satisfaction and further use of Belzona planned on other stages of the turbine.

INDUSTRY

Power

LOCATION

Vladimirsky Power Plant/ Russia

APPLICATION DATE

July 2003

PRODUCTS

Belzona 1111 (Super Metal) Belzona 1391 (Ceramic HT Metal)

SUBSTRATE

Steel/Cast iron

PHOTOS

1. Grit blasting underway
2. After blasting extent of damage clearly evident
3. Application of Belzona 1391
4. Completed job

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

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