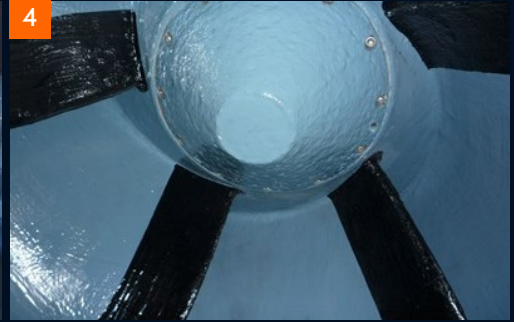
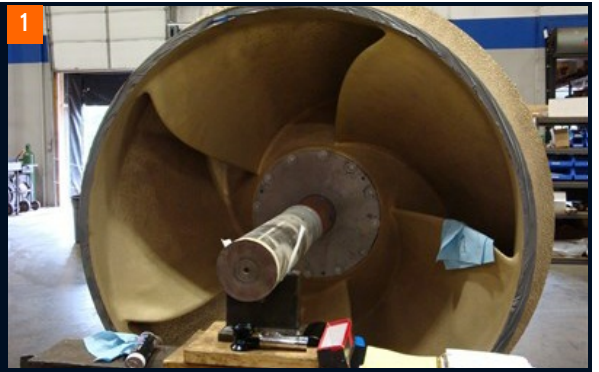


IMPELLER AT NUCLEAR PLANT REPAIRED AND PROTECTED WITH BELZONA

ID: 1409



PROBLEM

A combination of de-Aluminification over the surface of the impeller and cavitation at root of the vanes was causing a significant reduction in the efficiency of this pump.

APPLICATION SITUATION

Cooling tower Recirculation pump impeller.

APPLICATION METHOD

The application was carried out in accordance with Belzona Know-How System Leaflets CEP-1, -3, -5 & -10. Belzona® 1121 used to smooth the surface prior to application of Belzona® 1341 system. Belzona® 2141 was then applied 8" on either side of the vanes to protect from cavitation.

BELZONA FACTS

The cost of labor and product was much lower than the cost to replace the impeller. From current draw, the application has also increased the efficiency of the pump, but no formal efficiency increase have been calculated.

INDUSTRY

Power

LOCATION

Nuclear Power Plant, North Carolina

APPLICATION DATE

August, 2009

PRODUCTS

Belzona 1341 (Supermetalgilde)
Belzona 1121 (Super XL-Metal)
Belzona 2141 (ACR Elastomer)

SUBSTRATE

Aluminum Bronze

PHOTOS

1. Impeller before application of any product
2. Application of the 1st layer of Belzona 1341
3. Application of the smoothing layer of Belzona 1121
4. Belzona 2141 applied to complete the job

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

Belzona products are manufactured
under an ISO 9001 Registered
Quality Management System.

www.belzona.com

