

BELZONA REFURBISHMENT OF FAN HUB SAVES TIME AND MONEY

CUSTOMER

Power Plant, Turkey

APPLICATION DATE

December 2010

APPLICATION SITUATION

Cooling Tower Fan Blade case, diameter 1854mm, width 537mm

PROBLEM

Erosion/Corrosion following failure of previous coating. If allowed to continue could cause severe damage to the fan.

PRODUCTS

Belzona® 1111 (Super Metal)

Belzona® 1391 (Ceramic HT)

SUBSTRATE

Steel

APPLICATION METHOD

application was carried out in accordance with Belzona Know-How System Leaflets FBC-4 & FBC-2. Formers were used to achieve correct profile for blade sockets.

BELZONA FACTS

Belzona restored the eroded surfaces. Alternative method by welding might cause distortion and its machining process is laborious and expensive, besides thermal stress could have a negative effect on balance as fan operates at 750rpm. Belzona solution is corrosion resistant, straight forward, time and cost effective. It saved time and avoided start-up delay.

PICTURES

1. Badly corroded case especially bottom side of fan blades
2. Wire mesh and formers cut by CNC used to achieve correct profiles
3. Application of Belzona® 1111 to case with templates in place to form fan pockets
4. Finished application. Rebuild and protective coating applied. Checking each hole by installing fan blade



1.



2.



3.



4.

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



ISO 9001:2008
Q 09335
ISO 14001:2004
EMS 509612

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