

Wind Turbine Bedframe Repaired with Belzona

ID: 8776

Industry: Power
Application: GSS-Gaskets, Seals and Shims
Substrate: Carbon steel
Products: Belzona 1111 (SuperMetal),

Customer Location: Scotland
Application Date: April 2022

Problem

Welding was undesirable due to the risk of heat distortion in the large metal casing. Any repair needed to withstand the high compressive loads.



Metal loss shown on the casing



Power tool preparation on the damaged surfaces



Belzona 1111 built up proud of casing



The Belzona 1111 machined flat with the surrounding metal

Application Situation

A wind turbine nacelle bedframe had become damaged through corrosion. The corrosion had formed pitted areas where the main shaft pedesal is landed. A flat surface was required to bolt onto with no gaps where water could ingress & cause future corrosion.

Application Method

The application was carried out in accordance with Belzona System Leaflet GSS-06. The area was first prepared with an angle grinder & MBX Bristle Blaster. The Belzona 1111 Supermetal was then applied proud of the surrounding metal. Once it reached its initial cure stage it was then sanded down flat with the undamaged sections of the casing.

Belzona Facts

The Belzona repair was carried out without the risk of distortion of the casing. Once cured the product has a very high compressive strength, it also does not corrode in normal conditions so it will prevent future corrosion if water does reach the area.

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ISO 9001:2015
FS 695214
ISO 14001:2015
EMS 695213

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