

Belzona Rebuilds Shaft During Wind Turbine Maintenance

ID: 6437

Industry: Power

Application: MPT-Mechanical Power Transmission

Customer Location: Wind farm, Central Sweden

Application Date: May 2011

Substrate: Steel

Products: * Belzona 1131 (Bearing Metal) ,

Problem

Inspection revealed that the nacelle had suffered from water ingress and the yaw drive shaft was experiencing damage due to corrosion and wear due to lack of lubrication.



Photograph Descriptions

- * 1. Crane access required to maintain the nacelle ,
- * 2. Nacelle removed for routine inspection and maintenance ,
- * 3. Corroded shaft ,
- * 4. Shaft rebuilt using self-lubricating Belzona 1131 ,

Application Situation

During maintenance of the turbine at a small wind farm, the nacelle was removed in order to inspect the internal components.

Application Method

Application was carried out in accordance with Belzona System Leaflet MPT-2. A former was used to mould Belzona 1131 to correct dimensions.

Belzona Facts

Belzona 1131 possesses self-lubricating properties for creation of low friction surfaces in the event of lubrication loss. The product is also corrosion resistant. This made it the ideal solution for the shaft repair. This application is still in service as of 2017.

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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